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APPENDIX 1: MINERAL CLAIM LISTING

Appendix 1: (continued)

| Title No | NTS Sheet | Type of Title | Date of Registration | Expiry Date | Number of Renewals | Area (Ha) | Titleholder (Name, Number and Percentage) |
|-----------------|------------------|----------------------|-----------------------------|--------------------|---------------------------|------------------|--|
| 2204148 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.07 | Commerce Resources Corporation (18766) 100 % |
| 2204149 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.07 | Commerce Resources Corporation (18766) 100 % |
| 2204150 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.07 | Commerce Resources Corporation (18766) 100 % |
| 2204151 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.07 | Commerce Resources Corporation (18766) 100 % |
| 2204152 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.07 | Commerce Resources Corporation (18766) 100 % |
| 2204153 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204154 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204155 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204156 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204157 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204158 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.06 | Commerce Resources Corporation (18766) 100 % |
| 2204159 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.05 | Commerce Resources Corporation (18766) 100 % |
| 2204160 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.05 | Commerce Resources Corporation (18766) 100 % |
| 2204161 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.05 | Commerce Resources Corporation (18766) 100 % |
| 2204162 | 24C16 | CDC | 2/2/2010 | 5/13/2016 | 2 | 47.05 | Commerce Resources Corporation (18766) 100 % |
| 2254846 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.18 | Commerce Resources Corporation (18766) 100 % |
| 2254847 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.18 | Commerce Resources Corporation (18766) 100 % |
| 2254848 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.18 | Commerce Resources Corporation (18766) 100 % |
| 2254849 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.18 | Commerce Resources Corporation (18766) 100 % |
| 2254850 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.18 | Commerce Resources Corporation (18766) 100 % |
| 2254851 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.16 | Commerce Resources Corporation (18766) 100 % |
| 2254852 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.16 | Commerce Resources Corporation (18766) 100 % |
| 2254853 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.16 | Commerce Resources Corporation (18766) 100 % |
| 2254854 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.16 | Commerce Resources Corporation (18766) 100 % |
| 2254855 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.16 | Commerce Resources Corporation (18766) 100 % |
| 2254856 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.17 | Commerce Resources Corporation (18766) 100 % |
| 2254857 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254858 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254859 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254860 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254861 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254862 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |
| 2254863 | 24C16 | CDC | 10/20/2010 | 5/13/2016 | 2 | 47.15 | Commerce Resources Corporation (18766) 100 % |

APPENDIX 2: 2010 EXPENDITURE LISTING

Pages(s) retirée(s) - Information non pertinente
Irrelevant page(s) have been withdrawn

APPENDIX 3: 2011 AND 2012 EXPENDITURE LISTING

Pages(s) retirée(s) - Information non pertinente
Irrelevant page(s) have been withdrawn

**APPENDIX 4A: 2010 AND 2011 ROCK SAMPLE LOCATIONS AND
DESCRIPTIONS**

Appendix 4a: 2010 and 2011 Rock Sample Locations and Descriptions

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|------------|-------------------|----------------|-----------------|--------------------|-------------|---------|------------------|---|--|--------------|
| 67751 | 2010 | 67751 | Southeast | 539703 | 6309631 | Boulder | Grab | 900 | cc-Carb | v.f.g. pale ol, sul (c.g., euh, cubic, br-r, qtz vns(c.g., 3cm wide, py, lim)), mag (2%, diss), mafics (bio) | Fe-ox perv, 600-900 CPS | 19-Aug-10 |
| 67752 | 2010 | OCS10-033 | East of Star | 539322 | 6309271 | Outcrop | Grab | -1 | Scht | f.g. to m.g., med gy, withd - dk gy to dk rusty br, wk foln, bio-cc, mag (diss), k-spar? (lt pk, throughout), ~6 mm felsic vn, vn of cc-carb with br-r vnlets | - | 19-Aug-10 |
| 67753 | 2010 | 67753 | East of Star | 539444 | 6309199 | Outcrop | Grab | -1 | Glim | dk gy, withd - rusty br, Glim (v.f.g., mafic), mag (diss), dol (1-2 mm vns) | V. small OC on ridge (<1 m ²) | 19-Aug-10 |
| 67754 | 2010 | 67754 | East of Star | 539647 | 6308911 | Boulder | Grab | -1 | - | lt b-gy, withd - med gy, fol, calcareous, micaceous (c.g.), mag (f.g., diss, perv), sul (few, diss) | - | 19-Aug-10 |
| 67755 | 2010 | 67755 | East of Star | 539465 | 6308590 | Boulder | Grab | -1 | - | v.f.g., dk gy-y, withd - rusty br, bio-mag ibnd with calcitic felsic mins (<1 mm bnds, fol?) | - | 19-Aug-10 |
| 67756 | 2010 | 67756 | East of Star | 539359 | 6308712 | Boulder | Grab | -1 | Gn | v.f.g. to m.g., wkly fol, siliceous, cc (diss), fsp-bio-musc, sul (lt y-gold, few, diss) | Granitic to gabbroic in nature | 20-Aug-10 |
| 67757 | 2010 | 67757 | East of Star | 539417 | 6308749 | Boulder | Grab | -1 | cc-Carb | v.f.g., lt gy, withd - med gy to rusty, mag (v.c.g. up to 1 cm, v.f.g., diss) | - | 19-Aug-10 |
| 67758 | 2010 | 67758 | East of Star | 539226 | 6308957 | Boulder | Grab | 380 | dol-Carb | f.gr., lt gy to med gy, withd - dk gy, bio (c.gr.), mag (perv) | Slumped? (possible boulders), 1.5 m x 4 m | 19-Aug-10 |
| 67759 | 2010 | 67759 | East of Star | 539128 | 6308995 | Boulder | Grab | -1 | meta-Sed | v.f.g., lt to med gy, layered (dol, cc, mag), mag (euhedral), sul (1-3 mm), cc-mag (perv) | Gal may be present | 19-Aug-10 |
| 67760 | 2010 | 67760 | South Mag Blowout | 539013 | 6308848 | Outcrop | Grab | -1 | meta-Volc | v.f.g., b-gy, withd - lt-med gy, mass, cc? | Slight HCl rxn | 19-Aug-10 |
| 67761 | 2010 | 67761 | South Mag Blowout | 538911 | 6308931 | Boulder | Grab | 3000 | dol-Carb | f.g. to m.g., withd - rusty br to peachy pk (Fe-O), minor healed fracs with mafic patches and vnlets (~1 mm), bio, mag (diss, f.g.) | 3000 CPS on boulder | 19-Aug-10 |
| 67762 | 2010 | 67762 | Southeast | 537830 | 6310584 | Boulder | Grab | -1 | dol-Carb | m.g., br-gy, withd - br | - | 22-Aug-10 |
| 67763 | 2010 | Ocps | MC Exposure | 541266 | 6311961 | Outcrop | Grab | -1 | mica Scht | mica scht with boudinage of amph?, other lithos as well | Frost heave | 22-Aug-10 |
| 67764 | 2010 | 402Cps | Star Trench | 537601 | 6310304 | Boulder | Chip | 402 | dol-Carb | c.g., withd - br, suc, pych? (abnt, blk) | - | 22-Aug-10 |
| 67765 | 2010 | Old Trench | Southeast | 537855 | 6310783 | Unknown | Grab | 8000 | Carb | withd - w, sugary, fl?, pych? (abnt, blk) | Old Trench | 22-Aug-10 |
| 67766 | 2010 | End | MC Exposure | 541266 | 6311961 | Outcrop | Grab | -1 | mica Scht | mica scht?, fol, fsp inclusions (abnt) | Same description as 67763 | 22-Aug-10 |
| 67767 | 2010 | Oc Ps2 | MC Exposure | 541258 | 6312016 | Outcrop | Chip | -1 | Glim / mica Scht | amph? (fine needles, abnt, blk) | - | 22-Aug-10 |
| 83301 | 2010 | APR10-009 | Ashram | 536427 | 6312026 | Outcrop | Chip | -1 | Carb (S3) / Glim | m.g., med gy, xtn, Carb with minor Glim vns, fl-py | Beside OC with 38713 | 25-Jun-10 |
| 83302 | 2010 | SS10-001 | North Glim | 535742 | 6313957 | Boulder | Grab | -1 | Gr | m.g., pk, xtn, felsic (~90%), kspar-qtz-amt | Erratic | 28-Jun-10 |
| 83303 | 2010 | SS10-002 | North Glim | 535681 | 6313879 | Outcrop | Grab | 400 | Glim | f.g. to c.g., med b-gy-blk, xtn, mass-brc, bio, py, late stage carb dykes | Glim occurrence | 28-Jun-10 |
| 83304 | 2010 | - | North Glim | 535681 | 6313879 | Outcrop | Grab | -1 | Carb (S4)? | f.g. to m.g., pk-gy, xtn | Glim occurrence | 28-Jun-10 |
| 83305 | 2010 | SS10-003 | North Glim | 535787 | 6313918 | Outcrop | Grab | -1 | Glim | f.g., med gy, xtn, mica, py | Glim occurrence | 28-Jun-10 |
| 83306 | 2010 | SS10-006 | North Glim | 535709 | 6313907 | Outcrop | Grab | -1 | Carb | m.g., pk-gy, Glim (vnlets), fl, phenos?, etc? | Frost heave | 28-Jun-10 |
| 83307 | 2010 | - | Hodge-Podge | 544699 | 6309553 | Boulder | Grab | -1 | Scht | f.g., gr-gy-b, withd - br-gy, greasy look, finely fol, very hard, musc-bio, chl?, amt?, qtz, with plag? (c.g., lt, soft), few vugs filled with large xtls | - | 30-Jun-10 |
| 83308 | 2010 | - | Hodge-Podge | 545020 | 6309839 | Outcrop | Comp | -1 | Scht | b-gy-gr, withd - greasy blk-br-gr, ibd f.g. and c.g. layers, fol, msc (radiating-bladed, fibrous, v. gr, rare), bio, plag (large xtls, not twinned, med-lt gy), chl? (v.f.g.) | V. large OC (slumped?) | 30-Jun-10 |
| 83309 | 2010 | - | Hodge-Podge | 545020 | 6309855 | Boulder | Grab | -1 | Scht | v.f.g., gr-gy (5GY-6/1), withd - rusty gr-gy with greasy sheen, br along fol, fol, large blk radiating xtls (tremolite?), msc-bio | Sample is typical of boulders within area | 30-Jun-10 |
| 83310 | 2010 | - | Hodge-Podge | 545565 | 6309865 | Boulder | Grab | -1 | Scht | med lt gy (N6), withd - dull gy to blk, foliated, msc-bio-chl?, minor trem? (large blk xtls, fibrous, radiating), amph? | Boulder is 1 m high x 3.5 m wide | 30-Jun-10 |
| 83311 | 2010 | - | Hodge-Podge | 545427 | 6309291 | Outcrop | Grab | -1 | Scht | f.g., b-gy, withd - cr-br to rusty br-r, fine fol, xtn, msc-bio-chl, cc (perv, bnds), plag? (w, withd - lt pk, finely bnd, xtn, chalky), sul? (minor, pbl, >0.5 mm, r-br) | OC is 65 cm high x 2.3 m wide, looks like there are vesicles and very soft blk slivers (amph?) on surface (withg pattern?) | 30-Jun-10 |
| 83312 | 2010 | - | Hodge-Podge | 545323 | 6309247 | Outcrop | Grab | -1 | Scht | f.g., med b-gy, withd - dull gr-blk, fine fol within large beds, rusty br layers separating fol beds, vesicles or vugs? on withd surf, msc-bio (c.g.)-plag?-chl? | OC on top of ridge, 0.7 m high x 1.8 m wide | 30-Jun-10 |
| 83313 | 2010 | Apr10-011 | Ashram | 536120 | 6312053 | Outcrop | Grab | 2600 | Carb (S4) | f.g., lt ol-gy, withd - rusty br-og, blk, fl (dk p, streaks & blebs common, 3 mm wide max) | 3 OC along parallel ridge (APR10-11, 12, 13), abnt boulders in area with similar CPS readings, 1600 CPS (HS), abnt frost heave | 1-Jul-10 |
| 83314 | 2010 | Apr10-013 | Ashram | 536060 | 6312120 | Outcrop | Grab | 1480 | Carb (S3) | c.g., y-gy (5Y 7/2), withd - rusty br to dk br-blk, xtn, mass, fl (dk p, blebs & vnlets up to 3 mm) | - | 1-Jul-10 |
| 83315 | 2010 | - | Ashram | 536197 | 6312116 | Boulder | Grab | 3500 | Carb (S4) | f.g., med gy (N5), withd - v. dk br to rusty br, xtn, fl (blebs & stringers up to 5 mm) | Along waterline | 1-Jul-10 |
| 83316 | 2010 | Ss Line1 | Ashram | 536176 | 6312147 | Boulder | Grab | 2000 | Carb (S4) | f.g., med gy (N5), withd - v. dk rusty br, fl (dk p, blebs & stringers up to 2 mm), py (diss), fairly xtn | Along waterline | 1-Jul-10 |
| 83317 | 2010 | - | Ashram | 536212 | 6312106 | Boulder | Grab | 3300 | Carb (S4)? | f.g., med gy (N5), withd - dk rusty br, xtn, fl (dk p, blebs & stringers up to 4 mm), py (diss, rare xtl up to 2 mm) | Abnt boulders in area | 1-Jul-10 |
| 83318 | 2010 | 83318 | North Glim | 535678 | 6313879 | Outcrop | Grab | 400 | Glim | f.g., med b-gy (5B 5/1), withd - dull blk with rusty og-br patches, mod fol, xtn, bio-py-riebeckite | Glim Occurrence, OC (slightly slumped?) is Carb (S4) with xcut brc Glim, small qtz vns & clsts (avg 2.5 cm) throughout | 1-Jul-10 |
| 83319 | 2010 | 83319 | Sareille | 544580 | 6307025 | Outcrop | Grab | -1 | Scht | m.g., gr-gy, withd - dk gy, fol, msc-bio, qtz? (translucent w, hard) | - | 2-Jul-10 |
| 83320 | 2010 | 83320 | Sareille | 545146 | 6306369 | Outcrop | Grab | 90 | Scht | f.g., gr-gy, withd - rusty, xtn, bio-K-spar vnlets, soft | OC ~1 m x 1 m | 2-Jul-10 |
| 83321 | 2010 | 83321 | Sareille | 545112 | 6306111 | Outcrop | Grab | 160 | Scht | f.g., med gy (N5), bio-musc-qtz (v.c.g.), xtn, fol and defm | - | 2-Jul-10 |
| 83322 | 2010 | 83322 | Sareille | 544994 | 6305646 | Boulder | Grab | -1 | Scht | med gy, xtn, mass, fol, bio-chl-musc, fl? (dk p), soft | Ang boulder | 2-Jul-10 |
| 83323 | 2010 | 83323 | Beckling | 539757 | 6312178 | Boulder | Grab | 180 | Scht | f.g. to m.g., gy-blk (N2), withd - blk, fol, minor flow bnds, bio-amph (fibrous) | Ang boulder | 10-Jul-10 |
| 83324 | 2010 | 83324 | Enterprise | 539775 | 6311971 | Outcrop | Grab | 300 | mica Scht | f.g., med b-gy, withd - lt rusty br-blk, v.f. fol, fissile, greasy, calcitic, cc (vnlets, 1-2 mm), mica-chl?, abnt small fracs | Strong frost heave throughout, 20-25 m x 3 m high | 10-Jul-10 |
| 83325 | 2010 | 83325 | MC Exposure | 540993 | 6311957 | Boulder | Grab | 4900 | Carb / Glim | f.g., blk, brc, fl (blebs), sul (py), extremely hard | Glim brc by Carb? | 10-Jul-10 |
| 83326 | 2010 | 83326 | Northwest | 535804 | 6312140 | Subcrop (TR08-002) | Grab | -1 | Glim / Carb (S1) | Glim: gy-blk (N2), bio (f.g., ang clasts, 3-4 cm long), Carb: vnlets (3 mm wide), m.g. to c.g., y-gy (5Y 7/2), non-mag | Glim brc by Carb | 30-Jun-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|--------|------------------|----------------|-----------------|--------------------|-------------|---------|--------------------------|---|---|--------------|
| 83327 | 2010 | 83327 | Northwest | 535804 | 6312133 | Subcrop (TR08-002) | Chip | -1 | Glim | m.g., br-blk (5YR 2/1), wthd - rusty br, mod foln, cc vnlets (few, 2 mm wide), non-mag | - | 30-Jun-10 |
| 83328 | 2010 | 83328 | Northwest | 535808 | 6312132 | Subcrop (TR08-002) | Comp | -1 | Glim | m.g., br-blk, mass, wk fol, non-mag, cc vnlets (few, 5 mm) | 83326, 83327, 83328 all have same Glim trend (340') | 30-Jun-10 |
| 83329 | 2010 | 83329 | East Valcourt | 536043 | 6311095 | Outcrop | Grab | 1000 | dol-Carb | f.g., med b-gy, dol, fl (blebs), cc (vnlets, 0.4 cm wide), amph (along cc vnlets) | OC is 8 m x 0.7 m wide | 3-Jul-10 |
| 83330 | 2010 | 83330 | East Valcourt | 536100 | 6311180 | Outcrop | Chip | -1 | Carb (S1)? | m.g., sandy colour, wthd - rusty, suc, few other mins | - | 3-Jul-10 |
| 83331 | 2010 | 83331 | East Valcourt | 536098 | 6311194 | Outcrop | Chip | -1 | dol-Carb | m.g., w, xtl | - | 3-Jul-10 |
| 83332 | 2010 | 83332 | North Glim | 535780 | 6313890 | Outcrop | Grab | 1900 | Carb (S4) | f.g., gy-gr, xtl, fl (blebs), cc (vnlets) | - | 3-Jul-10 |
| 83333 | 2010 | 83333 | North Glim | 535695 | 6313885 | Outcrop | Chip | 800 | Carb (S1) | c.g., pale w-tan, suc, mass, fl (blebs, 4 mm wide), Glim frags | 680-800 CPS, OC incl Ocapr10-051 - Ocapr10-053 | 3-Jul-10 |
| 83334 | 2010 | 83334 | Star Trench | 538332 | 6309953 | Outcrop | Grab | 170 | Scht | v.f.g., dk b-gy, wthd - rusty br-blk, slaty appearance, str foln, msc-chl?, looks greasy, very hard | - | 4-Jul-10 |
| 83335 | 2010 | 83335 | Star Trench | 538327 | 6310013 | Boulder | Grab | 900 | calc-Sil | f.g. to m.g., gy-blk, wthd - lt to dk rusty br, fine flow bndg (strong), bio (f.g. to m.g.), sil, sul (py, f.g.), cc | 300-900 CPS, Glim wthrs -ve, Carb wthrs +ve | 4-Jul-10 |
| 83336 | 2010 | 83336 | Southeast | 538421 | 6310333 | Outcrop | Grab | 300 | Carb (S2) | m.g., v. pale og, wthd - dk rusty br, mafic vns (wthd gy) | Large OC extends east | 4-Jul-10 |
| 83337 | 2010 | 83337 | Southeast | 538458 | 6310568 | Boulder | Grab | 2800 | Carb | m.g., v. pale og & gr-gy, xtl text, fl (abnt blebs), py (diss), psych (diss), v. hard | Boulder field | 4-Jul-10 |
| 83338 | 2010 | 83338 | Southeast | 538384 | 6310291 | Outcrop | Grab | 325 | Carb (S3) | f.g. to m.g., pale ol, xtl, mass, non-mag, dol, py (few) | Large OC extending eastward, frost heave, boundaries defined by Ocapr10-079 to 081; meta-volc with carb intruding/xcutting, smaller vns locally, glim pod locally | 5-Jul-10 |
| 83339 | 2010 | 83339 | Southeast | 538399 | 6310293 | Outcrop | Grab | -1 | Carb (S3) | f.g. to m.g., med gy, xtl, non mag, py (diss) | Sample taken of carb dyke xcutting (130/50) | 5-Jul-10 |
| 83340 | 2010 | 350Cps | Star Trench | 537365 | 6310203 | Outcrop | Grab | 2700 | Glim | brc, with cc vns | Nearby hotspot in hole- 2700 CPS | 7-Jul-10 |
| 83341 | 2010 | - | Star Trench | 537414 | 6310160 | Outcrop | Grab | -1 | dol-Carb | f.g., ol-gr, v homo, mafic mins (abnt), ukn min (blk, abnt) | - | 7-Jul-10 |
| 83342 | 2010 | - | Star Trench | 537411 | 6310158 | Outcrop | Grab | -1 | dol-Carb | m.g., hetero, gr-gy, mafic mins (abnt), bio (minor), sul (abnt), ukn mins (blk, abnt), all mins m.g. | few zones of less grish Carb but some mins | 7-Jul-10 |
| 83343 | 2010 | - | Star Trench | 537407 | 6310154 | Outcrop | Grab | -1 | Glim / Carb | dol-Carb (bright) dyke in Glim (f.), ukn min (blk) | ctc btw Carb and Glim | 7-Jul-10 |
| 83344 | 2010 | - | Star Trench | 537411 | 6310158 | Outcrop | Grab | -1 | dol-Carb | gr, mineralized, grish gdmass (Carb fizzing) with patches (gy and bright), blk min (no mag, no dk gr core), minor sul | - | 7-Jul-10 |
| 83345 | 2010 | - | Star Trench | 537302 | 6310065 | Outcrop | Chip | -1 | Carb | f.g. to m.g., gr to ol-gr, wthd - og, mag (xtls, 3 mm), sul (minor) | - | 7-Jul-10 |
| 83346 | 2010 | - | Star Trench | 537283 | 6310085 | Outcrop? | Grab | 900 | Glim | Glim: f.g., cc (vns) in ctc with Carb: v.c.g. gr, mag (xtls, 1.5 cm), ap, gdmass of Carb (bright) and ap | - | 7-Jul-10 |
| 83347 | 2010 | - | Star Trench | 537292 | 6310074 | Subcrop | Chip | -1 | Carb | gr, abnt mag-ap, dol vn xcutting (unminilized) | - | 7-Jul-10 |
| 83348 | 2010 | - | Star Trench | 537279 | 6310089 | Subcrop | Chip | 3000 | Glim | minor Carb vn (1 cm thick, m.g., gr) | 1300 cps at surface, chip sample at subcrop | 8-Jul-10 |
| 83350 | 2010 | - | Star Trench | 537309 | 6310052 | Subcrop | Chip | 6800 | Si-Carb | wthd, amph, ukn min (blk), mag | - | 8-Jul-10 |
| 83351 | 2010 | - | Star Trench | 537024 | 6310148 | Unknown | Chip / Grab | 600 | Carb | cc-Carb: f.g., p, mag (minor), ~8% arf, on top of dol: gr, fol, mag? (abnt, xtls), ~2/3 cctic, 1/3 dolitic | ctc between dol and cc-Carb has a rxn rim (bio) | 5-Jul-10 |
| 83352 | 2010 | - | Star Trench | 537315 | 6310040 | Subcrop | Chip | -1 | Si-Carb | f.g. to m.g., bright-colored to gy, wthd - br-og, bnd, amph (abnt, small) | - | 8-Jul-10 |
| 83353 | 2010 | - | Star Trench | 537316 | 6310020 | Subcrop | Chip | 4000 | dol-Carb | gr, m.g., no min | - | 8-Jul-10 |
| 83354 | 2010 | - | Star Trench | 537350 | 6310027 | Subcrop | Grab | 2000 | cc-Carb | ol-gr, only ap, blk mins (5-10%) | - | 8-Jul-10 |
| 83355 | 2010 | - | Star Trench | 537398 | 6310054 | Boulder | Grab | 1000 | dol-Carb | m.g., bright y, homo, ukn mins (blk) | - | 8-Jul-10 |
| 83356 | 2010 | - | MC Exposure | 541032 | 6311922 | Boulder | Grab | 1000 | Gn? | m.g., med to dk gy (N4), xtl, qtz vns (c.g.), bio? (vnlets), amph, minor flow bnd | poss ctc | 10-Jul-10 |
| 83357 | 2010 | - | Miranna | 536736 | 6313489 | Boulder | Chip | 1200 | dol-Carb (S3)? | f.g., dk gr-gy, wthd - rusty dk br, sul (minor) | - | 13-Jul-10 |
| 83358 | 2010 | - | Miranna | 536800 | 6313505 | Boulder | Chip | 1150 | dol-Carb | m.g., y-gy, xtl, mafic-rich vnlets (1-3 mm), fl (blebs), sul (minor), ukn min (r-br) | - | 13-Jul-10 |
| 83359 | 2010 | - | Miranna | 537139 | 6313365 | Boulder | Chip | 650 | dol-Carb (S3)? | m.g. to c.g., pale ol, wthd - dk br, xtl, py (diss) | - | 13-Jul-10 |
| 83360 | 2010 | - | Miranna | 537141 | 6313361 | Boulder | Chip | 2700 | dol-Carb (S3)? / Glim | f.g., pale ol, fl (blebs), mica, sul (abnt, c.g.), non-mag | Glim intruding Carb | 13-Jul-10 |
| 83361 | 2010 | - | Miranna | 537145 | 6313309 | Boulder | Chip | 2400 | dol-Carb (S3)? | m.g., pale ol, xtl, sul (minor), Glim? (blebs), v. micaceous, fl (abnt) | - | 13-Jul-10 |
| 83362 | 2010 | - | Miranna | 537212 | 6313304 | Boulder | Chip | -1 | Glim | f.g., gy-blk, minor sul, Fe-stained fracs throughout, qtz vns (along foln), intruded by dol-Carb: pale ol, fl (blebs) | - | 13-Jul-10 |
| 83363 | 2010 | - | Miranna | 537386 | 6313301 | Boulder | Chip | -1 | dol-Carb (S3)? | f.g., y-gy, xtl, fl (minor blebs), sul (minor) | - | 13-Jul-10 |
| 83364 | 2010 | - | Miranna | 537393 | 6313055 | Boulder | Chip | -1 | - | bio-rich clsts from soil-rich area, f.g. to c.g. bio, minor dol pebbles | linked to soil 28151, 5 cm x 25 cm | 13-Jul-10 |
| 83365 | 2010 | - | Miranna | 537380 | 6313022 | Boulder | Chip | 4700 | dol-Carb (S3)? | m.g., pale ol, xtl, fl (abnt blebs), mafic-rich (stringers) | - | 13-Jul-10 |
| 83366 | 2010 | - | Miranna | 537361 | 6312963 | Outcrop | Chip | 325 | dol-Carb (S2, S3) / Glim | f.g., med-dk gy, pitted wthg - rusty br-blk, sul (diss) | 7.5 m x 2 m high (ridge face), abnt frost heave. When walking N-NE from OC AD10-109, ground is "hot" from 400-4000 CPS | 13-Jul-10 |
| 83367 | 2010 | - | Miranna | 537326 | 6312966 | Boulder | Chip | 3000 | dol-Carb (S3)? | m.g., y-gy, xtl, fl (blebs), sul (minor) | - | 13-Jul-10 |
| 83368 | 2010 | - | Miranna | 537507 | 6313024 | Boulder | Chip | 1700 | dol-Carb (S3)? | c.g., y-gy, pitted wthg, xtl, sul (minor), fl (blebs), dol (minor, xtls, coarse) | Glim intruding Carb | 14-Jul-10 |
| 83369 | 2010 | - | Miranna | 537491 | 6313141 | Boulder | Chip | 2000 | dol-Carb (S4)? | f.g., pale ol, Glim (stringers & clsts, intruding Carb?) | - | 14-Jul-10 |
| 83370 | 2010 | - | Miranna | 537529 | 6313132 | Boulder | Comp | 3000 | dol-Carb | c.g., y-gy, fl (blebs), Glim intruding Carb, ukn min (pk, wthg product?) | 550-3000 CPS | 14-Jul-10 |
| 83371 | 2010 | - | Miranna | 537397 | 6312750 | Boulder | Chip | 2000 | dol-Carb (S2) or (S3)? | f.g., pale ol, wthd - rusty br, fl (abnt, blebs), sul (po, mag?) | Moss-covered, other hot boulders in area range from 1200-2200 CPS, all of same material, soil 400-900 CPS | 14-Jul-10 |
| 83372 | 2010 | - | Miranna | 537373 | 6312771 | Boulder | Comp | 3000 | dol-Carb (S3) | m.g. to c.g., pale ol, slightly pitted wthg - rusty og-br, fl (abnt, blebs), sul (minor), msc? | - | 14-Jul-10 |
| 83373 | 2010 | - | Miranna | 537371 | 6312789 | Boulder | Chip | 3000 | dol-Carb (S3) | m.g. to c.g., pale ol, wthd - dk br to rusty og, fl (abnt, blebs), sul (minor), small vugs | - | 14-Jul-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|-----------|-------------------|----------------|-----------------|-------------------|-------------|---------|----------------|---|--|--------------|
| 83374 | 2010 | - | Miranna | 537371 | 6312980 | Outcrop | Grab | 375 | dol-Carb (S3)? | m.g. to c.g., pale ol to med gy, xtl, fl (blebs), sul (minor), qtz (vns) | 7.5 m x 2 m high (ridge face), abnt frost heave. When walking from OC AD10-109 N-NE, ground is "hot" from 400-4000 CPS, Carb intruded by Glim? | 14-Jul-10 |
| 83376 | 2010 | - | Star Trench | 537997 | 6309590 | Outcrop | Grab | 500 | cc-Carb? | f.g. to v.f.g., lt b-gy to med gy, wthd - rusty og, flow bndg?, dol (vnlets, ~2 mm), mafic vnlets (<1 mm), sul (~1%, diss) | HCl rxn | 14-Jul-10 |
| 83377 | 2010 | - | Star Trench | 537990 | 6309594 | Outcrop | Grab | -1 | Glim? | f.g., med-dk gy, wthd - v. dk gy, v. fissile, bio-cc-ukn min (f.g., HCl rxn), dol (vns up to 1 cm wide) | fe-ox near vns | 17-Aug-10 |
| 83378 | 2010 | - | Star Trench | 538207 | 6309630 | Outcrop | Grab | -1 | dol-Carb | v.f.g., pale ol with dk gy Glim (f.g., ~20%), wthd - v. rusty br, brc?, late stage, qtz (vn, 1-2 cm, smoky lt gy to lt pk) | OC v. overgrown with veg, exposure is 2 x 4 m on ridge, frost heave?, ang boulder | 17-Aug-10 |
| 83379 | 2010 | - | Star Trench | 538445 | 6309499 | Outcrop | Grab | 500 | Glim / Carb? | v.f.g., dk gy, pitted wthg - v. dk gy & rusty br, flow bndg, low bnd Glim (bio) ibnd with cc-Carb?, qtz (vnlets, 1 mm), Carb clsts? in flow text | OC is 65 x 20 m, mostly covered with veg, exposed area is 3 x 3 m, 150-500 CPS | 17-Aug-10 |
| 83380 | 2010 | - | Star Trench | 538490 | 6309543 | Boulder | Grab | 270 | dol-Carb | v.f.g. with f.g. to m.g. ukn min (fl, flc?, burgundy), pale ol, wthd - rusty, sul (rare, diss), qtz (5 mm vns), cc-qtz (clsts, up to 2 cm), ap (10%) | - | 17-Aug-10 |
| 83381 | 2010 | - | Star Trench | 538491 | 6309543 | Subcrop | Grab | 440 | meta-Volc | v.f.g., med-dk gy, wthd - v. rusty, mass, mag (few, diss), ukn min (small, rnd, blk, no clvg, glossy lustre). | Mod HCl rxn | 17-Aug-10 |
| 83382 | 2010 | - | Star Trench | 538642 | 6309561 | Boulder | Grab | -1 | - | v.f.g., med gy, lt gy gdmass, wthd - og to dk gy, wk foln, some cc (HCl rxn), sul (gal, dk b-gy, euh, 1-2 mm, tetrahedron), mag (v.f.g., diss) | Boulder is ~25 x 10 x 5 m | 17-Aug-10 |
| 83383 | 2010 | - | South Mag Blowout | 540509 | 6307902 | Boulder | Grab | 700 | dol-Carb? | m.g., gy-br, wthd - og-br, bio-qtz (vns up to 2 mm), fsp? (abnt, c.g., ~1-2%) | Boulder is ~0.5 x 0.5 m | 17-Aug-10 |
| 83384 | 2010 | - | South Mag Blowout | 540512 | 6307907 | Boulder | Grab | -1 | Qtz vn | lt gy, wthd - dk br, transparent | Sample of qtz vns from sample 83383, dirt within frags and on surface, boulder is ~0.5 m x 0.5 m | 18-Aug-10 |
| 83385 | 2010 | - | South Mag Blowout | 540527 | 6307899 | Boulder | Grab | -1 | - | v.f.g., dk gy, pitted wthg - dk gy, ukn min (br)-sul (abnt, vug fill) | High density, boulder is 1 x 1 m | 18-Aug-10 |
| 83386 | 2010 | - | South Mag Blowout | 540534 | 6307849 | Boulder | Grab | 150 | - | f.g., br, wthd - br-gy, wk foln, mag (abnt, euh, xtls up to 3 mm, 15-20%), similar to 83386, more gy gdmass, wthd - lt cr-br, no foln, qtz (vn, ~0.4 m, xcutting) | Boulder is ~4 x 3 m, 110-150 CPS | 18-Aug-10 |
| 83387 | 2010 | - | South Mag Blowout | 540507 | 6307806 | Boulder | Chip | -1 | - | v.f.g., gy-b, wthd - gy-b, wk foln, sul (trace), cc (abnt, vnlets), bio? (perv, blk, shiny) | Boulder is ~2 x 2 m | 18-Aug-10 |
| 83388 | 2010 | - | South Mag Blowout | 540485 | 6307764 | Boulder | Grab | -1 | - | f.g. to m.g., br-gy, wthd - lt cr-br, xtl, sul (diss), mag (f.g., diss, few c.g. xtls, euh) | Boulder is ~2 x 3 x 1.5 m | 18-Aug-10 |
| 83389 | 2010 | - | South Mag Blowout | 540427 | 6307644 | Boulder | Grab | -1 | - | f.g., gy, wthd - og-br, mass, qtz (vns, up to 5 mm, sul), fsp? (pk-w, c.g., xtl), ukn min (og-br, soft, met) | Boulder is ~0.5 x 0.5 m | 18-Aug-10 |
| 83390 | 2010 | - | South Mag Blowout | 540408 | 6307584 | Boulder | Chip | -1 | dol-Carb | m.g. to c.g., qtz (vns, xcutting), mica?-sul?-mag? (vns, mafic-rich, shiny), sul (diss), fsp? (abnt) | Boulder is 0.5 x 1 m | 18-Aug-10 |
| 83391 | 2010 | - | South Mag Blowout | 540404 | 6307578 | Boulder | Chip | -1 | dol-Carb | dirty qtz, wthd - og, sul (abnt, vug fill), ukn min (c.g., silvery-y, cubic, abnt) | boulder is ~0.3 x 0.2 x 0.02 m | 18-Aug-10 |
| 83392 | 2010 | - | South Mag Blowout | 540419 | 6307534 | Boulder | Grab | -1 | Qtz vn | m.g. to c.g., cr-p, wthd - br-gy, wk foln, xtl, homo, fracd, qtz (vns, xcutting), mica?-msc? | Boulder is ~2 x 2 m | 18-Aug-10 |
| 83393 | 2010 | - | South Mag Blowout | 540403 | 6307547 | Boulder | Chip | 260 | Carb? | m.g., dk gr-gy, str foln, cc (vnlets, itsl), bio flakes, mag? (b, met), sul (trace), Glim (vnlets, abnt) | Rnded wthd surface, boulder is ~0.4 x 0.4 x 0.3 m | 18-Aug-10 |
| 83394 | 2010 | - | South Mag Blowout | 540222 | 6307604 | Boulder | Chip | 100 | - | similar to 83394, tiny vugs on wthd surf | OC is 10 x 15 m | 18-Aug-10 |
| 83395 | 2010 | OC-AD-007 | South Mag Blowout | 540229 | 6307622 | Outcrop | Chip | 100 | Scht | v.f.g., gr-br, blocky wthd - gy-br, v. fracd, mag rich, v. hard, sul (abnt) | Boulder is ~3 x 2.5 x 2.5 m | 18-Aug-10 |
| 83396 | 2010 | - | South Mag Blowout | 540458 | 6307598 | Boulder | Grab | 260 | - | m.g., gr-gy, wthd - og-br, sul (abnt, diss), bio (v.f.g., blk, bnds), qtz (vnlets, xcutting, up to 1.5 cm), fsp? | Boulder is 2 x 1 x 1 m | 18-Aug-10 |
| 83397 | 2010 | - | South Mag Blowout | 540508 | 6307704 | Boulder | Chip | 800 | dol-Carb | f.g. to m.g., b-gy, wthd - blk-br, str foln, lineation, sul (perv, diss), cc (vnlets), bio? (abnt, blk, shiny) | OC is 40 x 4 m, sedimentary features present (x-bedding and ripples?), dol-Carb intruding scht | 18-Aug-10 |
| 83398 | 2010 | OC-AD-008 | South Mag Blowout | 540860 | 6307760 | Outcrop | Grab | 450 | Scht | f.g. to m.g., b-gr, plag? (minor), greasy, needle-like xtls | OC is 5 x 4 x 2 m | 18-Aug-10 |
| 83399 | 2010 | OC-AD-008 | South Mag Blowout | 540865 | 6307787 | Outcrop | Grab | -1 | Amt | f.g., gr-gy, blocky wthd - dk gy-br, small vugs throughout, appears greasy, mag rich, sul (abnt, diss), ukn min (small vns, cr-br, wthd) | - | 18-Aug-10 |
| 83400 | 2010 | OC-AD-008 | South Mag Blowout | 540870 | 6307798 | Outcrop | Grab | -1 | - | f.g., w to y-gr, mod foln (comp bndg), suc, mass, dk gy-br mins (1-5%, bnd), po-py (trace), ap-neph-fsp? | Sample buried, 350-1300 CPS | 19-Aug-10 |
| 87401 | 2010 | RR10-17 | North of Beckling | 540086 | 6314136 | Boulder? | Chip? | 1300 | - | dk gy, met, qtz-fsp (diss, bnds, 10-20%), ap? (5-10%), mafic mins (clvg faces) | Sample buried, 300-1800 CPS | 8-Jul-10 |
| 87402 | 2010 | RR10-22 | North of Beckling | 539824 | 6313752 | Outcrop | Chip | 1800 | - | f.g., dk gy, mass, met | Sample buried, 300-1900 CPS, continuation of prev sample? | 8-Jul-10 |
| 87403 | 2010 | RR10-23 | North of Beckling | 539861 | 6313740 | Boulder? | Chip? | 1900 | - | dk gy-blk, met, glittery | Sample buried, OC is 1 x 3 m | 8-Jul-10 |
| 87404 | 2010 | 3000cps | North of Beckling | 539968 | 6313461 | Outcrop? | Chip? | 3000 | - | f.g., blk to dk gy, mass, homo, mafics (80-90%), bio (<30%), dol-qtz (~10%) | OC up to 5 m high | 8-Jul-10 |
| 87405 | 2010 | RR10-26 | Beckling | 539912 | 6312738 | Outcrop | Chip | -1 | Dacite? | f.g., gy, cgl text, dol (90%, clsts up to 10x3 cm), parallel qtz bnds 10-15 cm thick (vnlets, tension gashes) | - | 8-Jul-10 |
| 87406 | 2010 | RR10-28 | Beckling | 539957 | 6312635 | Outcrop | Chip | -1 | dol-Carb? | f.g., dk gy to blk, met, glittery | Sample buried | 8-Jul-10 |
| 87407 | 2010 | - | Beckling | 539945 | 6312632 | Boulder | Chip | 2300 | dol-Carb | blk, met, glittery, fissile, wk fabric, breaks into elongate chips | 3000-5000 CPS, ground is 1000 CPS, 2 large boulders are 2 x 3 m | 8-Jul-10 |
| 87408 | 2010 | - | Beckling | 540231 | 6312755 | Boulder | Chip | 5000 | - | m.g. to c.g., blk, wthd - dk br-blk, mass, igneous?, phenos (perv, pale y-br, diss, ~10%), mafics (>90%) | 3000-4000 CPS, high SG, 1 cm thick wthd rind | 10-Jul-10 |
| 87409 | 2010 | - | Beckling | 540269 | 6312705 | Subcrop / Outcrop | Chip | 4000 | - | v.f.g., blk, wthd - og-br, some met, mass, slightly fissile, wk fabric | 2000-3000 CPS, same as glittery rock, high SG | 10-Jul-10 |
| 87410 | 2010 | - | Beckling | 540265 | 6312694 | Boulder | - | 3000 | - | m.g., tan to lt br, mass, qtz-fsp (vns, xtls, 1-5%, +ve wthd), dol (>50%), amph? (5%), qtz? (20%) | - | 10-Jul-10 |
| 87411 | 2010 | - | Beckling | 540497 | 6312607 | Boulder? | Chip? | 500 | dol-Carb? | m.g., dk gy-blk, cc (30-60%) | 200-300 CPS | 10-Jul-10 |
| 87412 | 2010 | - | Beckling | 540527 | 6312602 | Boulder | Chip | 300 | - | | | 10-Jul-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|----------------|------------------|----------------|-----------------|----------|-------------|---------|----------------|--|--|--------------|
| 87413 | 2010 | - | MC Exposure | 540821 | 6312566 | Outcrop | Chip | 400 | Carb? | m.g., dk gy, ukn min (blk, met), mafics (90%), cc (10%), trace py (euh, cubes) | 300-400 CPS | 10-Jul-10 |
| 87414 | 2010 | - | MC Exposure | 540941 | 6312574 | Subcrop | - | 3000 | - | m.g., med-dk gy, withd - rusty br, dol, qtz (vns, 2-5 mm thick), fl (patches) | - | 10-Jul-10 |
| 87415 | 2010 | - | MC Exposure | 540864 | 6312337 | Subcrop | - | 2000 | Carb? | tan-w, fl? (bnds) | 1000-2000 CPS | 10-Jul-10 |
| 87416 | 2010 | - | MC Exposure | 540852 | 6312330 | Boulder | - | 500 | Carb? | v.f.g., gy-gr, qtz (pk, vn) | - | 10-Jul-10 |
| 87417 | 2010 | - | Beckling | 540453 | 6312589 | Boulder | Grab | 400 | Carb? | f.g., med gy, withd - og-br, mass, cc-dol rich, bio (10-15%, bnds, +ve withg), trace ox-sul (blk) | - | 10-Jul-10 |
| 87418 | 2010 | - | MC Exposure | 540919 | 6312231 | Outcrop? | Chip | -1 | Pxt? | m.g. to c.g. (equant), lt & dk gr, mass | - | 10-Jul-10 |
| 87419 | 2010 | - | MC Exposure | 540925 | 6312240 | Subcrop? | Chip | 500 | - | f.g., blk, sul (trace), 2-10 cm layers, flat lying | 300-500 CPS | 10-Jul-10 |
| 87420 | 2010 | - | Beckling | 540257 | 6312723 | Outcrop? | Chip | -1 | - | f.g. to c.g., lt gr, mass, fsp-neph? (20%), amph-hbl phenos (10%), chl? (70-80%, soft, gr) | - | 10-Jul-10 |
| 87421 | 2010 | - | East Valcourt | 536751 | 6310175 | Subcrop | Chip | 500 | - | dk gy, mass, blk met bnds, fl? | OC is <1 m tall | 10-Jul-10 |
| 87422 | 2010 | - | Miranna | 537632 | 6312991 | Boulder | Grab | 1200 | Carb (S3) | f.g., y-gy to lt gy, xtnl, few mafics, no mag, few py (euh, f.g.) | - | 11-Jul-10 |
| 87423 | 2010 | - | Miranna | 537822 | 6312644 | Boulder | Grab | 2900 | Carb (S3) | f.g., y-gy, withd - mod r-br, xtnl, few mafics, few blebs, minor min | Dug 60 cm | 15-Jul-10 |
| 87426 | 2010 | Oc-PS-10-010 | Star Trench | 537243 | 6310074 | Outcrop | Grab | 4700 | WR / dol-Carb | withd - og-br, WR (qtz brc) with Carb vns (< 3 mm thick) and small Glim vns (< 1 mm) | Str RA, 400-4700 CPS | 15-Jul-10 |
| 87427 | 2010 | Ps-10-05-1000C | Star Trench | 537244 | 6310070 | Boulder | Grab | 1000 | cc-Carb | br-bg, dol (weak), no mag, sul, ukn min (blk, throughout, blk rim with dk gr core?), avg grain size of all mins ~1 mm | - | 5-Jul-10 |
| 87428 | 2010 | Ps-10-018 | Star Trench | 537292 | 6310189 | Boulder? | Grab | -1 | Glim / Carb | Glim with cc (vns), Carb (bright gr-br, with large bio aggregates), ukn min (blk, common, ~5%, <1 mm), sul (euh), all mins m.g. | ctc | 5-Jul-10 |
| 87429 | 2010 | Oc-PS-10-014 | Star Trench | 537250 | 6310040 | Subcrop | Grab | 4700 | Glim / Carb | c.g., mafic-rich, Carb inclusions (rnd, <2 cm, ukn min (abnt, gr, amph?)) | - | 5-Jul-10 |
| 87430 | 2010 | Ps-10-009 | Star Trench | 537213 | 6310126 | Outcrop? | Grab | -1 | dol-Carb | m.g., gr, zones of mineralization, ukn min (blk, 0.5 mm), sul, one piece of cc-Carb (brc?) | Mineralized dol is white under UV | 5-Jul-10 |
| 87431 | 2010 | Ps-10-022 | Star Trench | 537411 | 6310123 | Boulder | Grab | 2000 | - | ap (layers), dol-rich (layers), cc (dykes), ukn min (blk), sul (minor) | frost heave | 5-Jul-10 |
| 87432 | 2010 | Oc-PS-10-012 | Star Trench | 537243 | 6310074 | Subcrop? | Chip | 4700 | Carb | withd - br-og, Carb gdmass, mag (abnt, almost pure) | High CPS | 5-Jul-10 |
| 87433 | 2010 | 83345 | Star Trench | 537302 | 6310065 | Subcrop | Grab | -1 | Carb | gr, f.g. to m.g., qtz (vns, ~2mm, xcut), ukn min (blk, small grains), mag (xtls, big, on withd surf?) | - | 6-Jul-10 |
| 87434 | 2010 | 2000Cps | Star Trench | 537227 | 6310055 | Subcrop | Grab | 2000 | Glim / cc-Carb | contact (discontinuous) between cc-Carb and Glim (cc patches and vns), ukn min (blk) | ctc | 6-Jul-10 |
| 87435 | 2010 | Ps-10-013 | Star Trench | 537237 | 6310052 | Boulder | Grab | 4700 | Glim / Carb | gdmass (r-bg, ~70% bio, ~30% carbonates), bio (c.g., <1 cm) | ctc | 5-Jul-10 |
| 87436 | 2010 | Oc-PS-10-007 | West Valcourt | 536007 | 6309895 | Subcrop | Grab | 900 | Carb | lt gy, ol-gr, mainly cc with mica (vns/scht, ~5%) | - | 5-Jul-10 |
| 87437 | 2010 | Oc-PS-10-017 | Star Trench | 537262 | 6310098 | Subcrop | Grab | 2000 | dol-Carb | withd - og-br, ukn min (small, blk) | ctc with Glim | 5-Jul-10 |
| 87438 | 2010 | Star Trench | Star Trench | 537294 | 6310138 | Boulder | Grab | -1 | - | gdmass (~60%, homo, gy, soft) with cbnt (1 mm xtls), remainder is Carb (prtc t | - | 5-Jul-10 |
| 87439 | 2010 | - | Southeast | 537866 | 6310986 | Boulder | Grab | -1 | dol-Carb | gy-gr, fol, minor Glim | - | 27-Jun-10 |
| 87440 | 2010 | - | Southeast | 537850 | 6310910 | Boulder | Grab | -1 | Carb | m.g., gr, sul (abnt), ukn min (gy, 20-30%) | - | 12-Jul-10 |
| 87441 | 2010 | - | Southeast | 537826 | 6310872 | Boulder | Grab | -1 | Carb (S3) | c.g., sul (abnt) | Frost heave | 12-Jul-10 |
| 87442 | 2010 | - | Southeast | 537773 | 6310829 | Outcrop | Grab | 7000 | Carb (S3) | sul (abnt) | Old trench | 12-Jul-10 |
| 87443 | 2010 | - | Southeast | 537774 | 6310812 | Boulder | Grab | 1400 | Carb | gr, ukn min (small, mafic), sul (abnt) | - | 12-Jul-10 |
| 87444 | 2010 | - | Southeast | 537839 | 6310595 | Boulder | Grab | 300 | Carb (S3) | m.g., gr | - | 12-Jul-10 |
| 87445 | 2010 | - | Southeast | 537844 | 6310582 | Unknown | Grab | 1300 | Carb | c.g., br, ukn mins (blk, abnt) | - | 12-Jul-10 |
| 87446 | 2010 | - | Southeast | 537892 | 6310561 | Outcrop? | - | 1300 | Carb | m.g., gr, ukn mins (mafic, minor) | - | 12-Jul-10 |
| 87447 | 2010 | - | Southeast | 537902 | 6310561 | Outcrop? | - | -1 | Carb | c.g., gy, bio (abnt, small clusters) | - | 12-Jul-10 |
| 87448 | 2010 | - | Southeast | 538131 | 6310763 | Boulder | Grab | -1 | Carb | ukn min (fol, Glim?) | - | 12-Jul-10 |
| 87449 | 2010 | - | Southeast | 538175 | 6310499 | Outcrop | Grab | -1 | Glim | huge xtls, sul (euh, 5%, up to 1 cm) | - | 12-Jul-10 |
| 87450 | 2010 | - | Southeast | 537980 | 6310461 | Outcrop | Grab | -1 | dol-Carb | c.g., gy, sul (minor) | - | 12-Jul-10 |
| 87451 | 2010 | - | Southeast | 537683 | 6310606 | Boulder | Grab | -1 | Carb (S1) | f.g. p | - | 12-Jul-10 |
| 87452 | 2010 | - | Southeast | 537764 | 6310641 | Boulder | Grab | -1 | Carb | gr, mafic min | Frost heave | 12-Jul-10 |
| 87453 | 2010 | - | Southeast | 537778 | 6310808 | Subcrop | Grab | -1 | Carb | gr | - | 12-Jul-10 |
| 87454 | 2010 | - | Miranna | 537908 | 6312701 | Boulder | Grab | 2800 | dol-Carb? | f.g., gy-b, xtnl, mafics (common, bio blebs), py (f.g., diss, euh) | Dug 0.3 m | 12-Jul-10 |
| 87455 | 2010 | - | Miranna | 537932 | 6312729 | Outcrop | Grab | 560 | dol-Carb? | f.g. to m.g., med gy, xtnl, py (common, v.f.g., euh), mafics (common-abnt), Glim vns | 1 x 4 m ridge | 15-Jul-10 |
| 87456 | 2010 | - | Miranna | 537907 | 6312757 | Boulder | Grab | 1800 | dol-Carb? | m.g., med gy, similar to 87455, bio (in a mass 1 cm wide bnd, c.g.), mag (common, blebs), mafics (common) | - | 15-Jul-10 |
| 87457 | 2010 | - | Miranna | 537903 | 6312766 | Boulder | Grab | 1500 | Carb | m.g., mod og-pk, suc, mass, mafics (v. few) | - | 15-Jul-10 |
| 87458 | 2010 | - | Miranna | 537827 | 6312869 | Outcrop | Grab | 1200 | dol-Carb? (S3) | f.g., y-gy to v. pale og, xtnl, mass, mafics - bio (few, blebs), fl (few, blebs), py (few, f.g., euh) | 2 x 25 m long, not well exposed | 15-Jul-10 |
| 87459 | 2010 | RR10-42 | Miranna | 537027 | 6313022 | Boulder | - | 1000 | Carb? | m.g. to c.g., tan to gy-br, withd - rusty r-og-br, mass, equigranular, soft, dol-rich, material (ap?) on some surfs (v.f.g., blk) | 500-1000 CPS | 15-Jul-10 |
| 87460 | 2010 | RR10-43 | Miranna | 537036 | 6313002 | Boulder | - | 3800 | cc-Carb? | m.g. to c.g., gy-pk-br to tan-w, mass, equigranular, pych? (melanocratic, 2-5%), ukn min (equant, dk br-bk), one piece with wk comp bndg, clean cc vs. cc+ | Str HCl rxn | 16-Jul-10 |
| 87461 | 2010 | RR10-44 | Miranna | 537043 | 6312983 | Boulder | - | 5000 | cc-Carb? | similar to 87460, slightly more c.g., wk-mod bndg, mag (2-5%), increased sul (up to a few %) | - | 16-Jul-10 |
| 87462 | 2010 | RR10-45 | Miranna | 537077 | 6313040 | Outcrop | Grab | 3000 | - | c.g., pk-br to gy, mass to wk bnd, hard, competent, sul (trace), melanocratic material (f.g.) | ~5 x 50 m ridge running N-S | 16-Jul-10 |
| 87463 | 2010 | RR10-46 | Miranna | 537016 | 6312930 | Boulder | - | 1500 | Carb? | tan with gy zones, mass, stringy bnds (melanocratic, xcutting), cc (vnlts, itsl throughout, 5%), dol-rich, ap? (abnt), fl (one 2 mm long xtl) | 400-1500 CPS, rock is harder than expected | 16-Jul-10 |
| 87464 | 2010 | RR10-47 | Miranna | 536950 | 6312962 | Outcrop? | - | 5000 | dol-Carb? | m.g., dk gy, melanocratic, wk to mod comp bndg, sul rich layers (5-10% locly), ap rich?, dol (30-40%) | 3000-5000 CPS, high SG | 16-Jul-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|--------------|-------------------|----------------|-----------------|----------|-------------|---------|----------------------------|--|--|--------------|
| 87465 | 2010 | RR10-48 | Miranna | 536943 | 6312966 | Subcrop? | - | 5000 | dol-Carb? | lt gy mtx with br-blk specks (pych?), dol-ap rich mix?, cc (5-10%), pych? (5-10%, br-blk, equant, suh), sul (trace) | - | 16-Jul-10 |
| 87466 | 2010 | RR10-49 | Miranna | 536795 | 6313032 | Outcrop | - | 1500 | dol-Carb? | v.f.g. to m.g., dk gy, withd - gy to r-br, mass, homo, sul (trace), ap? (up to 50%), dol (40-80%)? | 250-1500 CPS, rock is pretty hard, planar fracs at all angles, series of fracs are sub-parallel, separate blocks 15-70 cm thick, OC is 2-4 x30 m NW-SE, curving slightly | 16-Jul-10 |
| 87467 | 2010 | RR10-54 | Ashram | 536632 | 6312645 | Outcrop | - | 4000 | cc-Carb | pk-tan, withd - tan, mass, blocky, cc (80-90%), br-blk phase especially at fracs (some itsl, few %), fl (trace in vns <1 cm wide, clusters), mag (up to 10% locally, some diss), ap?, sul (trace, <1%) | 3-4 x30 m, facing S, 2000-4000 CPS | 16-Jul-10 |
| 87468 | 2010 | RR10-55 | Ashram | 536647 | 6312641 | Subcrop? | - | 5000 | Phoscorite? | f.g. to m.g., dk gy-gr with cc (>50% locally, itsl) concentrated in pk zones, equigranular, mass to wkly layered, ap (5-30%), mag (20-70%) | >2000-5000 CPS at surface | 16-Jul-10 |
| 87469 | 2010 | OCRR10-57 | Ashram | 536796 | 6312699 | Outcrop | Chip | -1 | - | 1st litho: f.g., dol (marble?), leuco, mass, clean, 2nd litho: melanocratic, mass, met mins, qtz? (stockwork vns), bio (phen, pbl) | Poorly exposed OC; sharp smooth ctc between two lithos | 16-Jul-10 |
| 87470 | 2010 | RR10-58 | Miranna | 536854 | 6312772 | Boulder | Chip? | -1 | dol-Carb? (S3)? | f.g., tan-gy, withd - r-og-br, pk-r blotches, mass, hetero, ap (20-40%), dol (60-70%), fl (up to a few % locally, diss) | - | 16-Jul-10 |
| 87471 | 2010 | OCRR10-59 | Miranna | 537155 | 6312813 | Outcrop | Chip | 700 | dol-Carb | m.g., hetero | <1 x 7 m | 16-Jul-10 |
| 87472 | 2010 | TR10-015 PT1 | Star Trench | 537295 | 6310077 | Outcrop | Grab | -1 | dol-Carb | m.g., withd - br, mag (cumulate, ~60%, c.g. xtls up to 1 cm), ap (gr, mass) | - | 16-Jul-10 |
| 87473 | 2010 | OCRR10-61d | Star Trench | 537168 | 6310199 | Outcrop | Chip | -1 | dol-Carb? | f.g., dk gy-blk, mass, aphanitic bnd (dk gy-blk, with moly or gal up to a few % locally) | - | 17-Jul-10 |
| 87474 | 2010 | OCRR10-62 | Star Trench | 537156 | 6310217 | Outcrop | Chip | -1 | Scht? | f.g., gr, brc?, resinous, mostly dol clsts (rnd, up to 2 cm), bio? (bits floating and rimming dol) | Foln v. approximate | 22-Jul-10 |
| 87475 | 2010 | OCRR10-63 | Star Trench | 537148 | 6310234 | Outcrop | Chip | 250 | Glim? | f.g., dk gy - blk, mass, wkly bnd?, sul (mod), dol (trace), fsp-neph? (pockets-bnds, lt gy, increased sul) | ~200-250 CPS, 1 x 1 m | 22-Jul-10 |
| 87476 | 2010 | - | Southeast | 537814 | 6310872 | Boulder | Chip | 7000 | Carb (S3) | m.g., pale ol, mass, xtl, fl (blebs, f.g.), mafics (few), sul (few) | Old trench | 22-Jul-10 |
| 87477 | 2010 | - | Southeast | 537763 | 6311160 | Boulder | Chip | 900 | dol-Carb? (S2)? | c.g., y-gy, xtl, mass, fl (few blebs, f.g.), mafics (few) | - | 12-Jul-10 |
| 87478 | 2010 | - | Southeast | 537754 | 6311213 | Boulder | Chip | 1700 | dol-Carb? (S4) | m.g., y-gy, xtl, fl (vns) | Same carb as Ashram boulder field & EC10-027 | 12-Jul-10 |
| 87479 | 2010 | - | Southeast | 537747 | 6311234 | Boulder | Comp Chip | 2400 | cc-Carb / dol-Carb (S1-S3) | 1st: c.g., gy-og, suc, no min, 2nd: m.g., pale ol, mafic and fl rich, py (few, euh, f.g.) | ctc, 1st has rxn with HCl | 12-Jul-10 |
| 87480 | 2010 | - | Southeast | 537759 | 6311234 | Boulder | Grab | 5800 | dol-Carb? (S4) | m.g., pale ol, xtl, mafics (common), fl (common, blebs), sul (few, py) | - | 12-Jul-10 |
| 87481 | 2010 | - | Southeast | 537758 | 6311237 | Boulder | Grab | 200 | Glim | f.g., med b-gy, str foln, lineation, cc (abnt, vns), py (few) | HCl rxn | 12-Jul-10 |
| 87482 | 2010 | - | Southeast | 537812 | 6311247 | Boulder | Chip | 5800 | dol-Carb? (S3) | f.g., med gy, xtl, mass, sul (few, f.g., diss), mag (v. few, f.g., diss) | - | 12-Jul-10 |
| 87483 | 2010 | - | Miranna | 537767 | 6311334 | Boulder | Comp Chip | 2200 | dol-Carb? | c.g., y-gy, xtl, vugs (4 mm), fl (common, blebs), dol (euh) | - | 12-Jul-10 |
| 87484 | 2010 | - | Miranna | 537746 | 6311367 | Boulder | Chip | 2200 | dol-Carb? (S3-S4) | f.g., pale ol, xtl, fl (blebs), mafic (common) | - | 12-Jul-10 |
| 87485 | 2010 | - | Miranna | 537699 | 6311418 | Boulder | Grab | 1800 | dol-Carb? | f.g., lt ol-gy, xtl, mafics (common), po (common, diss) | - | 12-Jul-10 |
| 87486 | 2010 | - | Miranna | 537706 | 6311440 | Boulder | Grab | 1800 | cc-Carb / dol-Carb | m.g. to c.g., med-dk gy to mod og-pk, xtl, mass | dol-cc mix | 12-Jul-10 |
| 87489 | 2010 | - | Ashram | 536508 | 6311929 | Outcrop | Grab | 2700 | Carb (S4) | m.g., y, Glim brc, fl (blebs), ukn min (blk, ~1 mm) | - | 12-Jul-10 |
| 87490 | 2010 | - | Ashram | 536320 | 6311998 | Outcrop | Grab | 2000 | Carb? | v.f.g., gy-pale ol | - | 19-Jul-10 |
| 87491 | 2010 | - | Ashram | 536209 | 6312325 | Outcrop | Grab | 4000 | Carb | v.f.g., gy-gr, fl (bnds) | - | 19-Jul-10 |
| 87492 | 2010 | - | Northwest | 536124 | 6312744 | Outcrop | Grab | -1 | cc-Carb | m.g., pk, sul (minor), ukn mins (mafic, some) | - | 19-Jul-10 |
| 87493 | 2010 | - | Northwest | 536126 | 6312745 | Outcrop | Chip | -1 | dol-Carb | c.g., gy, cc (small vns) | - | 19-Jul-10 |
| 87494 | 2010 | - | Northwest | 536090 | 6312763 | Outcrop | Grab | 1500 | Carb | f.g., gr, fl (abnt, ~20%) | - | 19-Jul-10 |
| 87495 | 2010 | - | Northwest | 536103 | 6312719 | Boulder | Grab | -1 | dol-Carb | f.g., gr, fl (vns) | - | 19-Jul-10 |
| 87496 | 2010 | - | Northwest | 536042 | 6312680 | Outcrop | Grab | -1 | Carb | f.g., y, bio (minor) | - | 19-Jul-10 |
| 87497 | 2010 | - | Northwest | 536309 | 6312726 | Outcrop | Grab | -1 | Carb | m.g., br-gy, sul (minor) | - | 19-Jul-10 |
| 87498 | 2010 | - | Ashram | 536482 | 6312541 | Boulder | Grab | 900 | Carb | v.c.g., sul, mag | - | 19-Jul-10 |
| 87499 | 2010 | - | Northwest | 536376 | 6312754 | Boulder | Grab | -1 | dol-Carb | v.c.g., gr | Hard to break | 19-Jul-10 |
| 87500 | 2010 | - | Northwest | 536370 | 6312770 | Subcrop | Chip | -1 | Carb | m.g., pk to gy, mag (abnt) | - | 19-Jul-10 |
| 87601 | 2010 | - | Star Trench | 537150 | 6310250 | Outcrop | Chip | -1 | dol-Carb? | gy, mass, fracd (fl filled), clean dol layer on top (>95%) | - | 19-Jul-10 |
| 87602 | 2010 | - | Star Trench | 537140 | 6310283 | Outcrop | Chip | 2000 | - | m.g., tan mtx (dol?, <50%), bio rich (10-25%) | 1 m ² , 1000-2000 CPS | 22-Jul-10 |
| 87603 | 2010 | - | East Valcourt | 537011 | 6310587 | Boulder | - | -1 | - | tan, mass, pych rich | - | 22-Jul-10 |
| 87604 | 2010 | OCRR10-73 | East Valcourt | 536994 | 6310668 | Outcrop | Chip | -1 | Carb | f.g. to m.g., dk gy, mass, blocky, late stage Carb (vns, f.g., w-tan to gy-gr, random orientations), fl | 2 x 4 m | 22-Jul-10 |
| 87606 | 2010 | 87903 | Extreme South | 542458 | 6301744 | Boulder | Grab | -1 | dol-Carb? | v.c.g., withd - br, Glim (~3 cm clst), qtz?, ukn min (br-blk, abnt) | Type of granite? | 23-Jul-10 |
| 87607 | 2010 | 600CPSJUL31 | North of Beckling | 541016 | 6313559 | Boulder | Grab | -1 | dol-Carb | f.g., gy, sul (xtls, up to 1 mm) | - | 24-Jul-10 |
| 87608 | 2010 | Oc400CPS | Extreme South | 542000 | 6301396 | Outcrop? | Grab | 400 | dol-Carb? | qtz?, sul (~20%) | - | 31-Jul-10 |
| 87609 | 2010 | 87860 | Sareille | 545512 | 6308143 | Boulder | Grab | -1 | Glim | - | - | 24-Jul-10 |
| 87610 | 2010 | 600CPSJUL31 | North of Beckling | 541016 | 6313559 | Boulder | Grab | -1 | Glim | - | - | 19-Jul-10 |
| 87611 | 2010 | 28162-28167 | Miranna | 537392 | 6313029 | Boulder | Grab | 290 | Gr | c.g., qtz (80%), fsp (10%), bio (10%) | Highly withd, crumbles in hand, rock clasts in soil profile of trench wall | 31-Jul-10 |
| 87612 | 2010 | 87612 | MC Exposure | 541397 | 6311628 | Outcrop | Comp Grab | -1 | cc-Carb | f.g., gr, suc, fl (streaky, interlayered, perv), ukn min (mm scale, dk r-br grains), py (few, f.g., <1%), cbnt, Scht, qtz-peg vn | Grab taken over 1 x 2 m area | 2-Aug-10 |
| 87613 | 2010 | 87613 | MC Exposure | 541377 | 6311663 | Boulder | Comp Grab | 3000 | dol-Carb / Scht | f.g., gr, mottled, bio and phl (abnt, f.g.), fl (few) | Boulder atop hill with Carb-Scht ctc | 4-Aug-10 |
| 87614 | 2010 | 87614 | MC Exposure | 541371 | 6311653 | Outcrop | Grab | 1200 | Carb (S3, S4) | f.g., lt ol-gy, xtl, fl (abnt, blebs, ang), sul (few, py) | Same as in OC with sample 87612; no ctc with scht but is the same carb; three OC are just separated by veg | 4-Aug-10 |
| 87615 | 2010 | 87615+87616 | MC Exposure | 541224 | 6311575 | Boulder | Grab | 1700 | dol-Carb? | lt ol-gy, thin lt br streaks, str bndg | On same boulder as 87615 | 4-Aug-10 |
| 87616 | 2010 | 87615+87616 | MC Exposure | 541224 | 6311575 | Boulder | Grab | 2600 | cc-Carb | v.f.g., med gy, withd - rusty br, str bndg, suc, foln, sul (few), dol (few, augen zones) | - | 4-Aug-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|----------------|-------------------|----------------|-----------------|----------|-------------|---------|--------------|---|---|--------------|
| 87617 | 2010 | 87617 | MC Exposure | 541341 | 6311731 | Boulder | Grab | 1800 | Carb (S4) | v.f.g., lt ol-gy, suc, xtnl, abnt vng, blebs (abnt, ang), fl (c.g., abnt), sul (abnt, diss), qtz vn xcutting | Similar to Ashram, corresponds to OC in 87612 | 4-Aug-10 |
| 87618 | 2010 | 87618 | MC Exposure | 541307 | 6311724 | Boulder | Grab | -1 | dol-Carb? | m.g., lt tan gy, xtnl, mottling, frac filling, vns (lt, dk), ukn min (common clots, bright y), fl (abnt, blebs), mafics (common), qtz (abnt vns) | sub-ang boulder is 1 x 2 m | 4-Aug-10 |
| 87619 | 2010 | - | North Glim | 535449 | 6314080 | Boulder | Grab | 1000 | - | f.g., pale y-gr, mass, suc, fl (fine diss, p, patches, vnlets) | Flat boulder is 20 x 20 x 10 cm | 4-Aug-10 |
| 87620 | 2010 | - | North Glim | 535529 | 6314041 | Boulder | Grab | 2300 | Carb | f.g., lt y-gy, mass, flow bndg (locl), fl (blebs, 10%, in outlines), incl of Carb (S3) | Boulder is 30 x 30 x 20 cm | 5-Aug-10 |
| 87621 | 2010 | - | North Glim | 535589 | 6314012 | Boulder | Grab | 1800 | Carb | f.g., suc, fl, inclusion of Carb (c.g., less fl) | - | 5-Aug-10 |
| 87623 | 2010 | Mcocb | South of Camp | 537371 | 6306998 | Outcrop | Grab | -1 | Volc? | f.g., dk gy-gr, wthd - og-br, mass, v. hard, homo, cc (minor), sul (abnt, v.f.g., diss) | 2 - 3 m from sample 87624 | 5-Aug-10 |
| 87624 | 2010 | near Mcocb | South of Camp | 537370 | 6306995 | Outcrop | Grab | -1 | - | m.g. to c.g., gr-gy, wthd - gy-br, mass, soft, chl rich phenos (v. dk gr), cc, dol | 2 - 3 m from sample 87623, coordinates are offset | 8-Aug-10 |
| 87625 | 2010 | Oc02 | Hodge-Podge | 544155 | 6309682 | Outcrop | Grab | -1 | Marble? | c.g., med gy, wthd - med br, minor foln-lineation, bio, ukn min (faint br) | Str HCl rxn | 8-Aug-10 |
| 87627 | 2010 | - | Miranna | 537242 | 6312718 | Boulder | Grab | 2000 | cc-Carb | m.g., med br, xtnl, bnd, mag (abnt, f.g. to m.g.), py, mafic-poor, below is cc-Carb (S2)?, c.g., mag (trace) | Ang boulder is 30 x 20 x 15 cm, surrounded by Phyllite (gy-gr, f.g.) | 3-Aug-10 |
| 87628 | 2010 | - | Miranna | 537315 | 6312186 | Boulder | Grab | 1400 | Carb (S3) | f.g., cr-gr, mass, dol (m.g., phenos), stringers (mafic-rich, infilling frags), phl? (br), fl (altn blebs, p), py (~1%, trace) | Ang, 30 x 30 x 15 cm, minor wthd | 3-Aug-10 |
| 87629 | 2010 | - | Miranna | 537508 | 6311873 | Boulder | Grab | 1700 | Carb (S3) | f.g., suc, mass, fl (f.g., perv, swirls & patches, altn assoc.), py (abnt, f.g., 60%) | Ang, large, mostly buried boulder | 3-Aug-10 |
| 87630 | 2010 | - | Miranna | 537551 | 6311828 | Boulder | Grab | 4000 | Carb (S3) | f.g., py (abnt), phl (abnt) | Ang, 1 x 0.5 x 0.6 m, frost heave?, RA area | 3-Aug-10 |
| 87631 | 2010 | - | Miranna | 537612 | 6311807 | Boulder? | Grab | 5600 | Carb | f.g., mass, xtnl, suc, fl (patches, p), py (trace, ~1%), dol-Carb (phenos, m.g., uncommon) | Uniformly high RA, abnt spots over 1000 CPS from 87630 to this sample, boulder is 50 x 40 cm, not fully exposed | 3-Aug-10 |
| 87632 | 2010 | - | Miranna | 537634 | 6311789 | Boulder | Grab | 6100 | dol-Carb | f.g., w-gr-gy, cbnt (large phenos), fl (p-gy, perv, altn) | Boulder 60 x 50 cm, not fully exposed | 3-Aug-10 |
| 87633 | 2010 | - | Miranna | 537923 | 6311870 | Boulder | Grab | -1 | Carb (S3) | f.g., gr, mass, dol (phenos, rare), fl (irregular feathery patches, p-gy), py, phl (small patches, diss, frac filling) | sub-rnd boulder is 30 x 60 x 25 cm | 3-Aug-10 |
| 87634 | 2010 | - | Miranna | 537984 | 6311898 | Boulder | Grab | 1450 | Carb (S3) | f.g., lt y-br, suc, mottled (outside fl zones), fl (abnt, patches, void filling), py (f.g., assoc. with fl zones) | Boulder is 60 x 40 x 15 cm, 600-1000 CPS | 3-Aug-10 |
| 87635 | 2010 | - | Miranna | 538262 | 6312131 | Boulder | Grab | 2100 | cc-Carb (S2) | m.g., gr, xtnl, mag (m.g. to c.g., abnt, >10%), Carb (leuco, vns, lt pk, 30%) | Boulder not fully exposed | 3-Aug-10 |
| 87636 | 2010 | Mcoc2 | MC Exposure | 541401 | 6311623 | Outcrop | Grab | 2700 | dol-Carb | f.g. to m.g., mod gy, wthd - dk gy, dol matrix, fl (minor, blebs), ukn min (minor, r-br, 1-2 mm grains) forms lineation with fl? or ukn min (p-gy), ukn min (y-br, perv, v.f.g.)? | 900-2700 CPS, XRF: 3% REE, 1:1 La-Ce | 3-Aug-10 |
| 87637 | 2010 | 87758 | South of Camp | 537801 | 6308318 | Boulder | Grab | 3100 | Carb? | r-br, extremely ferruginous, intensely wthd to all brittle, no fresh surf | assoc. with soil sample 87758, found in soil hole | 3-Aug-10 |
| 87639 | 2010 | 87639 | Lac Douay | 532869 | 6315998 | Boulder | Grab | -1 | meta-Sed | med gy, wthd - dk gy, gdmass (v.f.g., foln, mafic, pitted, bio, mag), clsts (felsic, 2-4 mm), sul (met, dk b-gy, tetrahedron shaped, +ve wthg) | +ve wthd | 4-Aug-10 |
| 87640 | 2010 | 87732 | MC Exposure | 541889 | 6311840 | Boulder | Grab | -1 | Carb | m.g. to c.g., med gy, wthd - dk br, v. ferruginous, mass, qtz (patches), dominantly dol | near MC exposure, assoc. with soil sample 87732 | 9-Aug-10 |
| 87641 | 2010 | 3800Cps | MC Exposure | 541415 | 6311612 | Boulder | Grab | 3800 | cc Scht? | f.g., med gy, wthd - lt br, foln, chl, cc, dol, sul (trace), ukn min (blk, shimmery surf (phyllite?)) | Boulder is 1 x 1 m | 3-Aug-10 |
| 87642 | 2010 | - | Star Trench | 537475 | 6310108 | Boulder | Grab | 1400 | dol-Carb | gy, wthd - r, sul, mafics | Wthd crust is ~1-2 cm, frost heave, boulder is 0.5 x 0.5 m | 3-Aug-10 |
| 87643 | 2010 | - | Star Trench | 537510 | 6310231 | Boulder | Comp | -1 | Carb | m.g. to c.g., gr-gy, wthd - dk rusty br, mafic-rich (bio)? (small) | Extremely wthd | 15-Aug-10 |
| 87644 | 2010 | - | Southeast | 538040 | 6310300 | Boulder | - | 1400 | dol-Carb | m.g. to c.g., br, sul | Boulder is ~0.5 x 0.3 m, frost heave | 15-Aug-10 |
| 87645 | 2010 | mcoc30?CPS1400 | Northwest of Camp | 529869 | 6313899 | Outcrop? | Grab | 1400 | Carb | v.f.g., dk gy, wthd - rusty br, mass, fl (common), qtz, ukn min (br-bg, v.f.g.) | ferruginous crust, fizzes with HCl, but appears dol | 11-Aug-10 |
| 87646 | 2010 | 44 cps1400 | West Mag High | 532494 | 6315376 | Boulder | Grab | 1400 | - | y-gy and p, wthd - lt br, mafics (diss), bndg (y), fl? (hard, siliceous) | Ang-sub-ang boulder is ~2 x 2 x 2 m | 11-Aug-10 |
| 87648 | 2010 | Mcoc22SAMPLE | South Mag Blowout | 538806 | 6307729 | Outcrop | Grab | 1400 | dol Marble? | v.f.g., lt br, wthd - rusty br, pseudo SS text, dol, cc, mafics (trace) | HCl rxn | 10-Aug-10 |
| 87649 | 2010 | 1400Cps | North Block | 537747 | 6317520 | Boulder | Grab | 1400 | Carb | v.f.g., ol-gy, fl (abnt, irregular bnds), sul (minor), dol (patches) | Typical A-Zone (Ashram) rock, rnd boulder is 50 x 50 cm | 8-Aug-10 |
| 87650 | 2010 | Mcoc7 | South of Camp | 537787 | 6308331 | Outcrop | Comp Grab | 3100 | - | f.g., gr-y with r patches, wthd - lt r to pale r, hem? (soft), mag (minor), ukn mins [(y), (r-blk, equant)] | sample is one of two lithos from this area, second corresponds to 87663 | 13-Aug-10 |
| 87651 | 2010 | - | North Glim | 535640 | 6313983 | Boulder | Grab | 7000 | Carb (S3) | f.g., gy, suc, mass, fl (v. dk, 40%, patches, streaks) | Dense, two similar boulders adjacent, large, near in place? | 4-Aug-10 |
| 87652 | 2010 | 87652-3 | North Glim | 535747 | 6313867 | Boulder | Grab | 2100 | Carb (S2) | m.g., lt tan, mass, mag-clb (common), phl, patches (f.g., mafic-rich, Glim?) | Boulder is 30 x 40 x 80 cm | 5-Aug-10 |
| 87653 | 2010 | 87652-3 | North Glim | 535747 | 6313867 | Boulder | Grab | 3600 | Carb (S3) | f.g., lt br (dirty), mass, mafics (f.g., equant, 5%), py (minor), fl | Boulder is 20 x 10 x 5 cm, same location as 87652 | 5-Aug-10 |
| 87654 | 2010 | - | North Glim | 535928 | 6314105 | Boulder | Grab | 1500 | Carb | f.g., cr, suc, fl (patchy), ukn min (r-br, fine masses) | Boulder is 100 x 80 x 20 cm | 5-Aug-10 |
| 87655 | 2010 | Oc 10Ka 5 | North Glim | 535724 | 6314527 | Boulder | Rep Chip | 1200 | Carb (S3) | porph: dol (phenos), mtx (f.g., dol-fl, r-br min), non-porph: (pale y-gr), fl (1-5%) | Boulder is 2 x 2.5 x 1.2 m | 5-Aug-10 |
| 87656 | 2010 | - | North Glim | 535658 | 6314581 | Boulder | Grab | 2700 | Carb | v.f.g., gr (70%), bnd, alternating pale gr and p, no phenos, ukn min (r-br, v.f.g.) | Boulder is 40 x 30 x 15 cm, flat bottomed | 5-Aug-10 |
| 87657 | 2010 | - | North Glim | 535584 | 6314552 | Boulder | Chip | -1 | Carb | v.f.g., variably bnd, brc cement, fl (abnt, p, bnds, diss and tensional) | Boulder is at least 1 x 1 m, partially buried | 5-Aug-10 |
| 87658 | 2010 | - | North Glim | 535156 | 6314263 | Boulder | Grab | 3300 | dol-Carb | m.g., granular, lt br, psych, mag (minor, m.g., diss) | - | 5-Aug-10 |
| 87659 | 2010 | Mcoc21 | South Mag Blowout | 538631 | 6307607 | Outcrop | Grab | 2300 | Carb? | f.g. to m.g., med gy, wthd - rusty br, mass, dol | ferruginous crust, 1500-2300 CPS | 5-Aug-10 |
| 87660 | 2010 | - | Southeast | 537687 | 6311283 | Boulder? | Chip | 2450 | dol-Carb | c.g., wthd - br, sul (abnt), mafics (gy, psych?), Glim (vns), fl? | Boulder is 50 x 50 cm | 8-Aug-10 |
| 87661 | 2010 | 89751+87661 | Southeast | 537546 | 6310512 | Boulder | - | -1 | Carb | f.g., ol, some br patches, fl (minor) | - | 12-Aug-10 |
| 87662 | 2010 | - | Southeast | 537569 | 6310647 | Boulder | Chip | 300 | cc-Carb | f.g., br, fl (patches), bio? (patch), sul (trace) | Boulder is 1 x 0.8 m | 12-Aug-10 |
| 87663 | 2010 | Mcoc7 | South of Camp | 537787 | 6308331 | Outcrop | Grab | 3100 | - | m.g., med-dk gy, wthd - dk r to rusty br, hetero (patchy), fabric (minor), cc (minor), mag (minor), bio-msc-chl?, hem-lim, qtz (minor) | sample is one of two lithos from this area, first corresponds to 87650 | 4-Aug-10 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|------------|------------------|----------------|-----------------|--------------------|-------------|---------|--------------------|---|---|--------------|
| 87664 | 2010 | Bldr Shiny | North Block | 537457 | 6316835 | Boulder | Grab | -1 | - | lt gy-w, wthd - lt-med gy, mag? (trace), bio (phenos, c.g., abnt), ukn min (patches, minor, lt br), rusty spots (ox sul?), cc (patchy), dol? | Sub-ang to rnd boulder is >5 x 5 m | 4-Aug-10 |
| 87665 | 2010 | - | Star Trench | 538058 | 6309749 | Outcrop | Comp Chip | -1 | WR? | m.g., gy, wthd - dk og, dol-Carb (vns), ukn min (f.g. to m.g., br), sul (trace) | Wthd crust is ~1-2 mm, rock is v. hard, OC is ~30 m wide at largest exposure, v. flat face | 13-Aug-10 |
| 87666 | 2010 | - | Star Trench | 538082 | 6309828 | Outcrop | Comp Chip | 1400 | dol-Carb? | f.g., b-gy, wthd - dk og-br to br-gy (some pitted), good clvg (trace), qtz (vnlets, up to 1 cm), bio (layers?), mol? (b, soft, met) | OC ~10 x 2 m, v. vegetated, abnt frost heave | 17-Aug-10 |
| 87667 | 2010 | - | Star Trench | 538138 | 6310058 | Subcrop | Chip | 1800 | dol-Carb | m.g., lt ol-gy, wthd - dk og-br, xtn, msc? (v. shiny) | Subcrop is 2.5 x 0.5 m | 17-Aug-10 |
| 87668 | 2010 | - | Star Trench | 538203 | 6310035 | Outcrop | Chip / Grab | 900 | dol-Carb | f.g., gr-gy, wthd - lt og-br, bio (flakes, c.g.) | OC is ~7 x 1 m, abnt frost heave, well vegetated | 17-Aug-10 |
| 87669 | 2010 | - | Star Trench | 538476 | 6310011 | Outcrop | Chip | 1000 | dol-Carb | f.g. to m.g., br-gy, ctc to bio-Scht, sul (common), dol-Carb (phenos, y) | Lots of frost heave, mostly moss covered, 400-1000 CPS | 17-Aug-10 |
| 87670 | 2010 | - | Southeast | 538578 | 6310134 | Outcrop | Grab | 1000 | cc-Carb | c.g., gy, wthd - dull br-blk, suc, intruded in Glim (v.c.g., up to 1.5 cm flakes) | 400-1000 CPS | 17-Aug-10 |
| 87671 | 2010 | - | Southeast | 538765 | 6310172 | Boulder? | Grab | 2000 | cc-Carb | c.g., pk, mag (abnt, xtls), bio (flakes), sul (trace) | Boulder is ~1 x 2 m | 17-Aug-10 |
| 87672 | 2010 | Mjoc03 | North Block | 537000 | 6318164 | Outcrop | Grab | -1 | WR? | med-dk gy, wthd - med br, brc?, bio (clsts, 0.5-1 cm, abnt, 60%), amph (phenos, common, 0.2-1.5 cm, acicular, b-blk, appear to cut bio) | No HCl rxn in mtx | 17-Aug-10 |
| 87674 | 2010 | - | North Block | 537083 | 6318193 | Outcrop | Grab | -1 | cc Amt? | m.g. to c.g., med gy, wthd - dull br, mass, cc (itsl), bio? (abnt) | Softer than expected | 16-Aug-10 |
| 87675 | 2010 | Mjoc05 | North Block | 537086 | 6318339 | Outcrop | Chip | -1 | - | c.g., lt gy, wthd - lt gy-br, cc (patchy), amph (acicular, abnt, <1 cm blades), rusty patches, ukn min (~0.5 cm grains, dull og?) | - | 16-Aug-10 |
| 87676 | 2010 | - | North Glim | 535007 | 6314289 | Outcrop | - | 280 | WR? | f.g., cr-br, wthd - lt gy-br, pitted, wk-mod foln, mag (phenos, abnt, ~20%, up to 1 mm, blk), bio? (blk, bnds) | OC is 4 x 50 m | 16-Aug-10 |
| 87677 | 2010 | - | North Glim | 535051 | 6314341 | Outcrop | Grab | 300 | Glim | f.g., wthd - dk br-blk, cc (vnlets), ukn min (patches, clsts?, y-cr, f.g., mass) | OC is 5 x 1 m | 19-Aug-10 |
| 87678 | 2010 | - | North Glim | 535062 | 6314364 | Outcrop | Chip | 500 | dol-Carb? | v.f.g., gy, wthd - dk br, str foln, bio (layers, abnt), sul (v.c.g., euh, up to 3 mm) | 400-500 CPS | 19-Aug-10 |
| 87679 | 2010 | - | North Glim | 535052 | 6314388 | Outcrop | Grab | 400 | Rhyolite? | m.g., b-gy, wthd - gy-blk-br, blocky, fracs (abnt), patches (r, abnt), mag (abnt), bio (abnt), Carb vns (abnt) | OC is 2 x 1.5 m | 19-Aug-10 |
| 87680 | 2010 | - | North Glim | 535051 | 6314467 | Boulder | Chip | 2000 | dol-Carb | f.g. to c.g., gy-gr, wthd - dk br-blk, fracs (abnt), mag (phenos, abnt), Glim (patches, abnt), sul (trace, diss throughout) | Boulder is 75 x 50 x 50 cm | 19-Aug-10 |
| 87681 | 2010 | - | North Glim | 535000 | 6314505 | Boulder | Grab | 1700 | dol-Carb? | m.g., wthd - og-br, mag (phenos, abnt), sul (v.c.g., up to 3 mm), bio-Glim (vnlets) | Boulder is 30 x 30 cm | 19-Aug-10 |
| 87682 | 2010 | - | North Glim | 535000 | 6314513 | Outcrop | Grab | 325 | Glim | v.f.g., wthd - w-gy, homo, dol-Carb (vns) | OC is 7 x 2.5 m | 19-Aug-10 |
| 87683 | 2010 | - | North Glim | 534965 | 6314558 | Outcrop | Grab | 600 | - | v.f.g., blk-br, blocky, bio (layers) | Same rock as sample 87679, 400-600 CPS | 19-Aug-10 |
| 87684 | 2010 | - | North Glim | 534822 | 6314554 | Outcrop | Chip / Grab | -1 | meta-Sed? | v.f.g., gr-gy, fine foln, dol-Carb (vns, layers), bio (layers), sul (common) | - | 19-Aug-10 |
| 87685 | 2010 | - | North Glim | 534796 | 6314577 | Outcrop? | - | 1500 | cc-Carb | v.c.g., wthd - og-br, mag (phenos, up to 60%) | Rnd wthg, OC? is 1 x 1.5 m | 19-Aug-10 |
| 87687 | 2010 | - | North Glim | 535046 | 6314231 | Outcrop | - | 310 | Glim | wthd - blk (pitted), homo, dol-Carb (vns) | OC is ~60 x 4 m | 19-Aug-10 |
| 87688 | 2010 | - | North Glim | 535187 | 6314173 | Boulder | Chip | 1100 | dol-Carb | m.g., gr-gy, wthd - og-br, xtn, Glim pockets (sul-rich), sul (trace), fsp?-dol? (euh, cr-y), mafic-rich stringers | Wthd crust is ~1 cm thick, boulder is ~1 x 0.5 x 0.5 m | 19-Aug-10 |
| 87689 | 2010 | Mjoc01 | North Block | 537069 | 6318270 | Outcrop | Grab | -1 | WR? | foln (minor), micaceous, chl-mica rich, amph?, mafics?, ukn min (og, <0.2 mm), cc (minor) | - | 19-Aug-10 |
| 87691 | 2010 | 1001Cps | North Block | 536370 | 6317865 | Boulder | Chip / Grab | -1 | cc-mafic (igneous) | f.g. to m.g., dk gy-blk, wthd - gy-br, mafic-rich, fl, py (v. common, equant, <0.5 mm), cc-rich | - | 16-Aug-10 |
| 87692 | 2010 | Mjoc02 | North Block | 536956 | 6317739 | Outcrop | Grab | -1 | WR? | similar to 87672, >amph, <bio (clsts, up to 20%), lineation of amph clsts evident | - | 16-Aug-10 |
| 87693 | 2010 | Mcoc44 | North Block | 536894 | 6317595 | Outcrop | Grab | -1 | amph-rich igneous | f.g. to m.g., med gy-br, wthd - r-br, soft, amph (abnt, up to 30-40%), mafic-rich (bio), ukn min (f.g., og-amber, perv, common), no mag-cc-dol | - | 16-Aug-10 |
| 87694 | 2010 | McOC1 | MC Exposure | 541711 | 6311707 | Outcrop | Grab | -1 | Scht | m.g., med-dk gy, wthd - lt br, fol, cc (bands), bio-chl-cc (common) | - | 15-Aug-10 |
| 87605 | 2010 | - | Ashram | 536100 | 6312014 | Subcrop (TR10-014) | Comp Chip | -1 | Glim / dol-Carb | Glim (brc, ~60-80%), rest is dol (m.g., y, up to 5 cm clsts, amph? (abnt)) | Chip taken over ~4 m2, trench TR10-014 | 22-Jul-10 |
| 28175 | 2010 | 28174 | MC Exposure | 541322 | 6311737 | Soil | Soil | -1 | - | dk r-br, mod organics, abnt ang peb | Soil sample analyzed as rock sample, same material as soil sample 28174 (sample split into 2 for different analyses), rocks are not RA but soil is | 4-Aug-10 |
| 83349 | 2010 | - | Star Trench | 537285 | 6310077 | Soil | Soil | 5500 | - | mag rich | Soil sample analyzed as rock sample | 8-Jul-10 |
| 87626 | 2010 | - | Miranna | 537278 | 6312995 | Soil | Soil | 3000 | - | dk r-br, contains non-RA boulder frags | Soil sample analyzed as rock sample | 18-Jul-10 |
| 87686 | 2010 | - | North Glim | 534793 | 6314576 | Soil | Soil | 1800 | - | dk br, clay-like, v. dense, sul rich in mag | Soil sample analyzed as rock sample, 40 cm deep hole | 19-Aug-10 |
| 92026 | 2011 | 92026 | MC Exposure | 541540 | 6311391 | Outcrop | Chip | 300 | Glim | blk-gy, wthd - dk br-gy to br-blk, wk to str fol, schs, clsts (qtz? ± fsp?, fenite?), v.f.g., hard to determine which, or both) | 1-2 mm oxidized crust, v. crumbly, side of moss covered ridge, out crop is 1 x 1 m | 1-Jul-11 |
| 92027 | 2011 | 92027 | MC Exposure | 541660 | 6311357 | Outcrop | Chip | 600 | dol-Carb / Glim | cr-w, wthd - cr-w-gy, str fol, carb pbls wrapped by v.f.g. glim+qtz?+fsp? | 2-3 mm wthd crust, v. crumbly, OC is 10 m long x 3 m high, slumped?, bottom half wthd lt br - cr, crumbly, str fol, porphyroblasts (lrg, ~5 cm, rnd to sub-rnd, wrapped by fol), lrg qtz vns (xcutting) | 1-Jul-11 |
| 92028 | 2011 | 92028 | MC Exposure | 541660 | 6311365 | Outcrop | Chip | 700 | dol-Carb? | v.f.g., cr-gy, wthd - og-br, str fol, bio (stringers, throughout) | 2-3 mm wthd crust, fol defined by negative wthd carb, bio and positive wthd fsp, qtz, OC is 5 x 3 m | 1-Jul-11 |
| 92029 | 2011 | 92029 | MC Exposure | 541672 | 6311361 | Boulder | - | 1400 | Glim / dol-Carb? | cr to ol-gr to w, wthd - dk br-r to lt cr-br, wk-str fol, bio (blk, stringers), carb clst (w, rnd, 2 cm) with blocky min inside (v.f.g., br-og) | 1-3 mm wthd crust, fol defined by bio stringers | 1-Jul-11 |
| 92030 | 2011 | 92030 | MC Exposure | 541706 | 6311325 | Outcrop | Chip | 550 | dol-Carb? | v.f.g., gy-gr, wthd - bright og-br, mod-str fol, dol-Carb (huge clsts), mica (shiny, v.f.g., throughout) | fol defined by bio, wthd crust fis-crumbly, blk, micaceous, as in 92031, OC is 15 x 2 m | 1-Jul-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|-------------|------------------|----------------|-----------------|----------|-------------|---------|--------------------------|--|--|--------------|
| 92031 | 2011 | 92031 | MC Exposure | 541702 | 6311322 | Outcrop | Chip | 550 | dol-Carb | v.f.g., cr-gy, wthd - bright og-r, no fol, xtn, bio (few stringers, clasts, mm scale), qtz (vnlets, xcut) | sample is large clast (50 x 30 cm) within 92030 OC | 1-Jul-11 |
| 92032 | 2011 | 92032 | MC Exposure | 541704 | 6311314 | Outcrop | Chip | 4500 | dol-Carb | v.f.g., gr-gy, wthd - dk br-r to lt br-r, xtn, v. wk fol, qtz (layers, f.g., mm scale) | OC is 15 x 2 m | 1-Jul-11 |
| 92033 | 2011 | 92033 | MC Exposure | 541448 | 6311288 | Boulder | - | 200 | dol-Carb? | dk gy, wthd - dk gy-br, shiny (abnt mica), str fol, sul (v.f.g.), dol-Carb bnds (1-2 cm wide, f.g., cr to gr-br, itsl mag xtls) | moss covered, fol defined by bio-Carb, boulder is 2 x 1 m | 1-Jul-11 |
| 92034 | 2011 | 92034 | MC Exposure | 541253 | 6311283 | Boulder | - | 250 | dol-Carb | f.g., cr-tan-y-gr, xtn (slightly suc), bio (stringers) | bio wthd negatively giving pitted text, bio defines v. str lineation, moss covered, powdery wthd, boulder is 4 x 5 m | 1-Jul-11 |
| 92035 | 2011 | 92035 | MC Exposure | 541210 | 6311732 | Outcrop? | Chip | 250 | dol-Carb | f.g., cr-y, wthd - dk og-br, xtn, qtz (vns and vnlets, xcut, abnt, milky and glassy), bio (few, stringers), Fe-ox | carb (-ive wthd, og-br), qtz vns (+ive wthd, abnt, br-w, xcut), wthd crust 4-5 mm, moss-covered, 1 m x 0.5 m exposed | 2-Jul-11 |
| 92036 | 2011 | 92036 | MC Exposure | 541192 | 6311735 | Boulder | Chip | 110 | Gr | v.c.g., pk-blk, wthd - dk br to og-br, xtn, bio (layers), fsp+qtz (layers, pk-w-og) | 1-2 mm wthd crust, boulder is 30 x 30 cm | 2-Jul-11 |
| 92037 | 2011 | 92037 | MC Exposure | 541174 | 6311616 | Boulder | - | 5000 | - | v.f.g., cr-gy-gr, wthd - dk br-blk, xtn, bio (70%), ap? with dol carb? layers-stringers (30%, fizzes faintly with HCl) | dull crust shimmerers in sun (mica), boulder is 3 x 2 m | 2-Jul-11 |
| 92038 | 2011 | 92038 | MC Exposure | 540939 | 6311485 | Outcrop? | Chip | 350 | dol-Carb | v.f.g., dk gy-gr, wthd - dk r-br, xtn, cc-Carb (throughout, abnt, v.f.g., itsl, 25%) | 2-3 mm wthd crust, moss covered, OC is 2 x 1 m | 2-Jul-11 |
| 92039 | 2011 | 92039 | MC Exposure | 540991 | 6311443 | Boulder | - | 270 | meta-Sed? | v.f.g. to f.g., gy-b, wthd - dk br-r to dusty gy-b, xtn, bio (50-60%), qtz (30-40%), cc (itsl, 10%), sul (f.g., abnt, diss, <5%, often has oxidized rim), po (one grain, 4 mm, euh, strongly magnetic) | boulder is 2 x 1 m | 2-Jul-11 |
| 92040 | 2011 | 92040 | MC Exposure | 541022 | 6311472 | Boulder | - | 500 | meta-Sed? | wthd - dk blk-br, bio (v.f.g.), qtz, cc (itsl), felsic mins (fsp ap?), felsic vns (xcut, og min, xtn) | pitted with wthd out vns xcutting, boulder is 3 x 1 m | 2-Jul-11 |
| 92041 | 2011 | 92041 | MC Exposure | 541143 | 6311341 | Boulder | - | 350 | Glim? | v.f.g., gy, wthd - blk-gy to r-br, xtn, Glim (75-80%), felsic min (v.f.g., 20%), sul (diss, <5%) | 0.5 cm wthd crust, boulder is 15 x 7 m | 2-Jul-11 |
| 92042 | 2011 | 92042 | MC Exposure | 541298 | 6311344 | Boulder | - | 350 | meta-Sed? | v.f.g. to f.g., gy, wthd - med gy, bio (stringers throughout, 30-40%), cc (itsl, <5%), felsic mins (qtz-fsp ap? 50-60%), sul (diss, <5%) | dry moss all over, slightly magnetic section on wthd portion of crust (po?), boulder is 10 x 5 m | 2-Jul-11 |
| 92043 | 2011 | 92043 | MC Exposure | 541278 | 6311518 | Boulder | - | 400 | dol-Carb | f.g., cr-y, wthd - og-br, xtn, qtz vns & vnlets (up to 1 cm wide), bio? (gy, patchy, spots) | wthd crust 2-3 mm thick, Fe-oxide often penetrates into microcracks of rock, gy patches do not fizz, boulder is 50 x 30 cm | 2-Jul-11 |
| 92044 | 2011 | 92044 | Enterprise | 539459 | 6311694 | Outcrop | Grab | 330 | meta-Sed? | wthd - dk gy to lt tan, wk-mod fol, fsp (c.g., 60%), bio (f.g., 40%) | fol produced by bio, OC is ~60 x 10 m | 4-Jul-11 |
| 92045 | 2011 | 92045 | Enterprise | 539515 | 6311635 | Outcrop | Grab | 360 | meta-Sed? | lt tan to gy, wthd - gy-br, wk-mod fol, fsp? (c.g., 60-70%), bio (~30%), sul (blk, f.g., 5-10%), po (slightly magnetic) | bio wthd out fsp?, OC 2.5 x 7 m | 4-Jul-11 |
| 92046 | 2011 | 92046 | Enterprise | 539476 | 6311659 | Outcrop | Grab | 330 | cc-Carb | f.g., w-lt gy, wthd - og-br, vn, cc (95%), bio (5%) | sample taken from same ridge as last two samples | 4-Jul-11 |
| 92047 | 2011 | 92047 | Enterprise | 539584 | 6311620 | Outcrop? | Grab | 300 | meta-Sed? | wthd - lt tan to gy, f.g., weird text, metamorphic?, wk fol, fsp (grains 2-5 mm, 70%), bio (30%), small sul tracks (rare) | SG - 2.62 | 4-Jul-11 |
| 92048 | 2011 | 92048 | Enterprise | 539588 | 6311619 | Outcrop | Grab | 450 | dol-Carb | f.g., wthd - og-br, well fol, dol (70%), bio (30%) | dol-Carb pocket in meta-Sed OC? | 4-Jul-11 |
| 92049 | 2011 | 92049 | Enterprise | 539786 | 6311377 | Outcrop | Grab | 220 | meta-Sed? | f.g., dk gy to blk, wthd - dk gy, mod fol, scht with fsp? (50-60%), bio (30%), mag (10%) | 25 m wide qtz vn found in OC | 4-Jul-11 |
| 92051 | 2011 | 92051 | MC Exposure | 541280 | 6311773 | Boulder? | gravel | 350 | Si-Carb? | f.g., dk gy, wthd - og-br, mag (euh, up to 5%), bio-Glim bnds, dol | possible OC? | 1-Jul-11 |
| 92052 | 2011 | 92052 | MC Exposure | 541270 | 6311848 | Boulder | - | 750 | Glim? | f.g., blk-dk gy, wthd - blk-dk gy, largely bio, dol-Carb? (pockets, stringers, xcut) | - | 1-Jul-11 |
| 92053 | 2011 | 92053 | MC Exposure | 541572 | 6312100 | Boulder | - | 825 | dol-Carb | f.g., med gy-gr, wthd - rusty br, mass, bio (loclly, bnds, layers) | - | 1-Jul-11 |
| 92054 | 2011 | 92054 | MC Exposure | 541597 | 6311532 | Boulder | - | 1000 | Glim / dol-Carb | f.g., dk gy-blk, wthd - dk gy-br, mass, Glim with dol-Carb pods | - | 1-Jul-11 |
| 92055 | 2011 | 92055 | MC Exposure | 540343 | 6311924 | Boulder | - | 275 | Dacite / Basalt? | v.f.g., dk b, wthd - med gy to dk gy, mass and homo, v. hard, bio (minor), sul (tr, diss) | moss covered, boulder is 1.5 x 2 m | 4-Jul-11 |
| 92056 | 2011 | 92056 | MC Exposure | 540332 | 6311902 | Boulder | - | 330 | meta-Sed? / meta-Basalt? | v.f.g., dk b-gy to gr, wthd - dk og-br, mass, qtz? fsp? (vnlets, 1-2 mm wide), cc (diss, throughout), sul (mostly po, diss, throughout) | wthd crust penetrates rock up to 7 mm, boulder is 50 x 50 cm | 4-Jul-11 |
| 92057 | 2011 | 92057 | Enterprise | 539878 | 6311851 | Boulder | - | 650 | dol-Carb | v.f.g., gr-gy, wthd - dk og-br, xtn, qtz (w, vns, xcut, sul within), cc clsts-stringers (mm scale), bio (clsts-blebs up to a few cm, diss throughout, elongate & oriented) | boulder is 2.5 x 1.5 m | 4-Jul-11 |
| 92058 | 2011 | 92058 | Beckling | 540005 | 6312690 | Outcrop | Grab | 225 | meta-Sed? | f.g., lt gy-b, wthd - og-br, mass, mostly dol, bio (f.g.), qtz (f.g., itsl, small areas), sul (minor) | doesn't look like Carb | 6-Jul-11 |
| 92059 | 2011 | 92059 | Beckling | 539906 | 6312729 | Outcrop | Grab | 240 | meta-Sed? | f.g., dk gy, wthd - dk gy, mod fol, bio, cc, dol, sul (minor) | str rxn to acid, fol defined by bio, similar to 92058 | 6-Jul-11 |
| 92060 | 2011 | 92060+92061 | Beckling | 540347 | 6312478 | Boulder | - | 2500 | Glim | f.g., blk, wthd - og-br to blk, fol (mod), cc (f.g., itsl, ~20%) lenses between bio fol (~80%) | - | 6-Jul-11 |
| 92061 | 2011 | 92060+92061 | Beckling | 540347 | 6312478 | Boulder | - | 2500 | dol-Carb | f.g., dk gy, mass, mostly dol (small gy-gr lens in dk gy dol mtx), bio fol (minor) | boulder is ~2 x 3 m, overgrown by moss | 6-Jul-11 |
| 92062 | 2011 | 92062 | Beckling | 540391 | 6312415 | Boulder | - | 1500 | dol-Carb | f.g., dk gy, wthd - og-br, slight fol, bio fol (few, f.g.), ukn min (lens, dk br, f.g., ore min?), fl (tr), qtz (small lens), sul? (r-br spots, wthd sul? oxides? REE min?) | - | 6-Jul-11 |
| 92063 | 2011 | 92063 | Beckling | 540430 | 6312341 | Boulder | - | 6000 | dol-Carb | f.g. to m.g., gy-br, wthd - og-br, mass, qtz vns (0.5 cm wide, br mins? within) | SG - 3.025 | 6-Jul-11 |
| 92064 | 2011 | 92064 | Beckling | 540239 | 6312431 | Outcrop | - | 800 | meta-Sed? | f.g., blk, wthd - dk gy, dol clsts (w-gy, up to 2 cm, elongate, 40-50%), str fol, bio (50-60%) | - | 6-Jul-11 |
| 92065 | 2011 | 92065 | Beckling | 540294 | 6312356 | Boulder | - | 1200 | dol-Carb | f.g., bright gr to dk gy, wthd - og-br, wk fol, bnds (b-gy layers with gy-w layers, up to 2 cm thick) almost entirely dol, sul (tr) | br wthd crust ~0.5 cm thick | 6-Jul-11 |
| 92066 | 2011 | 92066 | Beckling | 540388 | 6312496 | Outcrop | Grab | 100 | - | f.g., gr-gy gdmass, wthd - lt gy, fsp (gy-w, clsts up to 3 cm, +ve wthg), bio (1-3 mm books, ~5%), chl (f.g., gr, few grains) | SG - 2.77 | 6-Jul-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|---------------|------------------|----------------|-----------------|----------|-------------|---------|-----------------------|---|---|--------------|
| 92067 | 2011 | 92067 | Beckling | 540386 | 6312787 | Boulder | - | 110 | meta-Sed? | f.g., dk gy (mtx), wthd - dk gy, wk fol, lens (w-og, 1-3 mm), pits where mins wthd out, cc (minor, f.g.) | SG - 2.77 | 6-Jul-11 |
| 92068 | 2011 | 92068 | Beckling | 540242 | 6312800 | Boulder | - | 1800 | dol-Carb | f.g., gy-b gdmass, wthd - dk r-og-br, gal (cubes, few, <1 cm, on wthd crust, assoc with qtz vn? 2 cm), fsp (m.g., clsts), msc (abnt, diss), ukn min (dull br, m.g. to c.g., platy), amph? (dk b, f.g., good clvg) | wthd crust ~1 cm, boulder (30 x 20 cm) | 7-Jul-11 |
| 92069 | 2011 | 92069 | Beckling | 540231 | 6312824 | Boulder | - | 3000 | dol-Carb | dk gy-b gdmass (50-60%), wthd - r-br, min (y-br, abnt, c.g., good clvg, platy, 30-40%), sul (minor, diss, up to 0.5 cm) ± mica (msc?) | wthd crust up to 2 cm, acid fizz when scratched, boulder (35 x 20 cm) | 7-Jul-11 |
| 92070 | 2011 | 5700 | Beckling | 540221 | 6312800 | Boulder | - | 6500 | Qtz vn | w-cr-y, wthd - rusty br, gal (few cubes), bio (clsts-stringers, up to 2 cm), min (y-br, c.g., good clvg, 10%), blk patches with vn (og-br, 2-3 cm wide) | boulder (40 x 35 cm) | 7-Jul-11 |
| 92071 | 2011 | 92071 | Beckling | 540269 | 6312756 | Boulder | - | 1000 | dol-Carb? | v.f.g., dk gy gdmass, wthd - dk br, bio (few elongate grains, <5%) | minor acid fizz when scratched, boulder (50 x 20 cm) | 7-Jul-11 |
| 92072 | 2011 | 92072 | MC Exposure | 541136 | 6312360 | Boulder | - | 800 | dol-Carb | f.g. to m.g., y-gr, wthd - dk br-blk, xtn, suc, bio (stringers, mm scale) | B-Zone?, top of same boulder (100 x 75 cm) as 92074 | 7-Jul-11 |
| 92073 | 2011 | 92072 | MC Exposure | 541136 | 6312360 | Boulder | - | 1000 | dol-Carb? | v.f.g., ol-gy, wthd - lt og-br, suc | bottom of same boulder (100 x 75 cm) as 92073, sharp ctc between bio clst & dol-Carb, late stage dyke? | 7-Jul-11 |
| 92074 | 2011 | 92074 | MC Exposure | 541015 | 6312350 | Boulder | - | 2500 | dol-Carb | f.g. to v.f.g., ol to gr-b, wthd - dk og-br, xtn, hetero, mottled, dol clsts (cr, <1 cm) within bio clsts & vnlets, qtz vn (+ve wthg) | boulder (40 x 20 cm) | 7-Jul-11 |
| 92075 | 2011 | 92075 | Beckling | 540236 | 6312418 | Outcrop | Chip | 700 | dol-Carb | f.g. to v.f.g., cr-y-gr, wthd - dk gy-br with og patches, suc, wk-mod fol, bio (few stringers-clsts-layers, <1 mm), sul (minor), qtz vns (perv, 1-10 cm) | B-Zone?, fol defined by bio, wthd crust og, 1 mm thick, OC (10 x 4 m) | 7-Jul-11 |
| 92076 | 2011 | 92076 | Enterprise | 539736 | 6311442 | Outcrop? | Grab | 360 | meta-Sed? | v.f.g., dk gy, wthd - dk gy, fsp (f.g., 60-70%), bio (30-40%), sul (tr), mag | - | 4-Jul-11 |
| 92077 | 2011 | 92077 | Enterprise | 539863 | 6311376 | Outcrop | Grab | 370 | meta-Sed? | f.g., wthd - dk gy, fol, fsp? (50%, up to 0.5 cm), bio (40%, itsl. layers), mag-sul (10%) | SG - 2.88, wthd surface has raised fsp? | 4-Jul-11 |
| 92078 | 2011 | 92078 | Enterprise | 539945 | 6311359 | Outcrop | Grab | 900 | meta-Sed? | f.g., lt tan, wthd - og-gy, mod fol, fsp? (80%), bio (20%) | fol indicated by bio layers, OC found on bottom of large ridge | 4-Jul-11 |
| 92079 | 2011 | OCAD11-012 | Ashram | 536005 | 6312200 | Outcrop? | Chip | 1000 | cc-Carb | v.f.g., b-gr, wthd - og-br, finely bnded (planar), cc (bnds, cr to ol-gr, <1 cm), bio (tr, grains, diss, throughout), mag (tr, euh, xtls), sul (diss) | obvious abnt frost heave, v. fract and broken up, trees and moss all over, unsure of fol (307/72), OC (8 x 1.5 m) | 11-Jul-11 |
| 92080 | 2011 | OCAD11-013 | Northwest | 536076 | 6312573 | Outcrop? | Chip | 300 | Glim | v.f.g., blk (sparkly), wthd - dk gy, no fol, cc (few vnlets <1 cm), sul (diss, throughout) | moss covered ridge oriented approx. N-S, OC? oriented approx. E-W, OC (5 x 0.75 m) | 11-Jul-11 |
| 92081 | 2011 | 92081 | Northwest | 536103 | 6312767 | Outcrop? | Chip | 2500 | cc-Carb | m.g. to c.g., pk, wthd - lt br-pk, skeletal text locly, mag with amph? (gr-b, elongate, slightly magnetic), sul (diss, dk patches) | moss covered, thin wthd crust 1-2 mm, OC (1 x 0.5 m) | 11-Jul-11 |
| 92082 | 2011 | 1600 Cps Hill | MC Exposure | 541099 | 6312101 | Boulder | Chip | 1600 | dol-Carb? | f.g., gr-gy, wthd - r-br, bio (itsl. layers?), sul (tr) | few mm thick wthd crust | 12-Jul-11 |
| 92083 | 2011 | 4300Cps | MC Exposure | 541020 | 6312375 | Boulder | Chip | 4300 | meta-Sed? | f.g. to m.g., bnd, bio (flakes), qtz? (w-clear, f.g.), dol-Carb? (minor), fl (minor, bnds), ukn min (common, y, wthd?) | - | 10-Jul-11 |
| 92084 | 2011 | 92084 | Ashram | 536098 | 6312078 | Outcrop | Chip | 1800 | dol-Carb? | f.g., gr gdmass, wthd - br, fl (patches, p), sul (tr), ukn min (minor, patches, r-br) | thin br wthd crust, 1200-1800 CPS at OC | 16-Jul-11 |
| 92085 | 2011 | 92085 | MC Exposure | 541158 | 6311808 | Boulder? | Grab | 5500 | dol-Carb? | m.g. to c.g., y-gy, wthd - rusty br, dense | ~1 cm thick wthd crust, boulder (10 x 15 cm) | 23-Jul-11 |
| 92086 | 2011 | 92086 | MC Exposure | 541102 | 6311828 | Boulder | Chip | 7200 | dol-Carb? | f.g., gy, wthd - rusty br, bio (layers, m.g.) | dense, SG - 3.294, 5300 CPS on surface, organic rich ovb, sample (30 x 30 cm) | 23-Jul-11 |
| 92087 | 2011 | 92087 | MC Exposure | 541046 | 6311796 | Outcrop? | Chip | 660 | bio Scht | dol-Carb? inclusions (gr, f.g., up to cm size) | head of ridge, sample (50 x 20 cm) | 23-Jul-11 |
| 92088 | 2011 | 92088+92089 | MC Exposure | 541021 | 6311833 | Boulder? | Chip | 300 | dol-Carb? | f.g., gr, wthd - br, fl (p, f.g., layers?, ~20%) | thin wthd crust, boulder (4 x 2.5 x 2.5 m), sample (1 x .02 m) | 23-Jul-11 |
| 92089 | 2011 | 92088+92089 | MC Exposure | 541021 | 6311833 | Boulder | Chip | 600 | dol-Carb? | f.g., gy-gr, wthd - br, qtz vns (minor, 5%?) | SG - 2.434, thin wthd crust, boulder (4 x 2.5 x 2.5 m), sample (30 x 30 cm) | 23-Jul-11 |
| 92090 | 2011 | 92090 | MC Exposure | 541094 | 6311908 | Boulder | Chip | 7000 | dol-Carb? | dk gy, wthd - rusty, some layers with bio? (c.g., plates), fl (bnds, v.dk p, v.f.g., layers?) | v. dense rock, sample (30 x 30 cm) | 23-Jul-11 |
| 92091 | 2011 | 92091 | MC Exposure | 541096 | 6311854 | Boulder | Chip | 5000 | - | m.g. to c.g., wthd - rusty, bio rich, ukn mins (y-gy) in gdmass (dk gy, f.g.), fl | SG - 3.44, sample (30 x 30 cm) | 23-Jul-11 |
| 92092 | 2011 | 92092 | MC Exposure | 540794 | 6311508 | Outcrop | Chip | 250 | bio Scht | f.g., gy-blk, wthd - w-br | SG - 2.89, thin wthd crust, OC dips N, sample (20 x 30 cm) | 23-Jul-11 |
| 92093 | 2011 | 92093 | Beckling | 539728 | 6312048 | Outcrop | Chip | 350 | dol-Carb? | f.g., dk gy, wthd - og-br, qtz (abnt, vnlets), sul (common, small patches), bio? (v.f.g., abnt) | thin wthd crust, sample 30 x 50 cm | 23-Jul-11 |
| 92094 | 2011 | 92094 | Enterprise | 539419 | 6311785 | Outcrop | Chip | 330 | meta-Sed? | bio, fsp?, qtz? (minor) | SG - 2.64, sample 30 x 50 cm | 23-Jul-11 |
| 92095 | 2011 | 92095 | MC Exposure | 541673 | 6311664 | Boulder | - | 1200 | dol-Carb? | f.g., gr, wthd - br, bio scht (layers-stringers) | wthd crust, 600 CPS at surface, boulder ~10 x 5 x 3 cm, sample 30 x 30 cm | 24-Jul-11 |
| 92096 | 2011 | 92096 | MC Exposure | 541725 | 6311563 | Boulder | Chip | 600 | bio Scht? / dol-Carb? | blk to gr-gy (dol-Carb clsts), wthd - br, mass, bio-rich | thin wthd crust, boulder (1.5 x 1 m), sample (40 x 40 cm) | 24-Jul-11 |
| 92097 | 2011 | 92097 | MC Exposure | 541839 | 6311598 | Boulder | Chip | 450 | - | f.g., dull gy, wthd - dk gy, amph? (needles, dk gr), dol (xtls, 3 mm, aggregates?), bio (flakes, br) | boulder ~1.5 x 1.5 x .05 m, sample 30 x 30 cm | 24-Jul-11 |
| 92098 | 2011 | 92098 | MC Exposure | 542137 | 6311306 | Boulder | - | 150 | meta-Sed | v.f.g., dk gy, met bronze, wthd - rusty r-br, original x-bed preserved, py (~60%, layers), shale? | - | 24-Jul-11 |
| 92099 | 2011 | 92099+92100 | MC Exposure | 542142 | 6311093 | Outcrop | Chip | 350 | cc-Carb | f.g., gy-lt gr, wthd - dull gy-br, qtz? (prominent vnlets), bt (minor), effervesces readily | ridge is 2.5 m high, sample 30 x 30 cm | 24-Jul-11 |
| 92100 | 2011 | 92099+92100 | MC Exposure | 542142 | 6311093 | Outcrop | Chip | 350 | Glim / cc-Carb | f.g., lustrous gr-blk to chalky w, wthd - dk gy-blk, layered-ibd, qtz (vnlets) | ridge is 2.5 m high, sample 30 x 30 cm | 24-Jul-11 |
| 92101 | 2011 | 92101+92102 | MC Exposure | 541839 | 6310922 | Boulder | Chip | 160 | Qtz vn | wthd - b-gr, vn ~5 cm thick, qtz (clear, stripes?, ~85%), sul (big), malachite? | sample is 10 x 10 cm | 24-Jul-11 |
| 92102 | 2011 | 92101+92102 | MC Exposure | 541839 | 6310922 | Boulder | Comp Chip | 180 | - | v.f.g., gy-gr gdmass, wthd - gy, patches, layers, dyke? (~0.5 cm thick, mag xtls, up to 80%), cc (minor, pockets) | sample is 50 x 50 cm | 24-Jul-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83219 | Northing N83219 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|-------------|------------------|----------------|-----------------|----------|-------------|---------|-----------------|--|--|--------------|
| 92103 | 2011 | 92103 | Beckling | 540564 | 6312509 | Outcrop? | Grab | -1 | bio Qtzite | f.g., withd - r-br, wk fol, bio (30%), qtz (70%) | fol due to bio, sample found by soil crew | 7-Jul-11 |
| 92104 | 2011 | 92104 | Enterprise | 541087 | 6310746 | Boulder | Grab | 150 | bio Qtzite | qtz (v.f.g., 70%), bio (f.g., 30%), bio assoc. with ukn min (og-r-br, HCl rxn) | found by soil crew | 26-Jul-11 |
| 92105 | 2011 | MNOC1 | Enterprise | 541381 | 6310479 | Outcrop? | Grab | 300 | Qtzite | v.f.g. to f.g., bio (1-5%, diss, elongated xtls of up to 1 cm), andesite? | 40 m width OC or giant boulder | 28-Jul-11 |
| 92106 | 2011 | 1500Cps | Enterprise | 540664 | 6310076 | Boulder | Chip | 1500 | dol-Carb | v.f.g., gy-gr, dol (patches, r, xtn, assoc. with amph), bio? (diss), sul (small bnds, silver, withd - glossy, golden) | boulder is 1.2 x 0.5 x 1 m | 28-Jul-11 |
| 92107 | 2011 | Mnboulder | Enterprise | 541384 | 6310251 | Boulder | Grab | 1600 | dol-Carb | dol-Carb (dol-bio-mass qtz vns) & Glim (bio 30%-qtz 70%) | sampled ctc zone, dol-Carb 1600 CPS, Glim 300 CPS, boulder is 6 m | 28-Jul-11 |
| 92108 | 2011 | BPOC83 | Enterprise | 541836 | 6310290 | Outcrop | Grab | 150 | dol-Carb | v.f.g., pale y, withd - og-br, bio (thin bnds throughout, diss, v.f.g., 5%) | - | 31-Jul-11 |
| 92109 | 2011 | Mnoc3 | Enterprise | 541918 | 6310111 | Outcrop | Grab | 75 | dol-Carb | v.f.g. to f.g., b-gy, withd - br, str fol with oriented bio grains, mag (abnt, diss, bnds with dol, 5%), few mag rich bnds parallel to fol | - | 2-Aug-11 |
| 92110 | 2011 | 92110+92111 | West Rim | 535242 | 6312269 | Outcrop | Chip | 1000 | dol-Carb / Glim | f.g., lt ol-gy, withd - blk-br, mass, equant grains, Glim (clast?), wk fol, py | sample is 15 x 15 cm | 3-Aug-11 |
| 92111 | 2011 | 92110+92111 | West Rim | 535242 | 6312269 | Outcrop | Chip | 1000 | dol-Carb | f.g., gr-gy, withd - rusty br, mass, py (tr), fl | sample is 15 x 15 cm | 3-Aug-11 |
| 92112 | 2011 | 92112 | West Rim | 535227 | 6312274 | Boulder | Grab | 1200 | - | f.g., mass, leuco cbnt with hem pseudos (after mag), fl (minor, patches), Carb (S3)? | 2 small boulders taken | 3-Aug-11 |
| 92113 | 2011 | 92113 | West Rim | 535304 | 6312227 | Boulder | Grab | 2000 | dol-Carb | f.g., lt ol-gy, withd - rusty br, mass, xtn, hem (5%, after mag?), py (5%, f.g.), pych (minor), Carb (S3)? | 1000 CPS at surface, boulder was 25 cm down hole, boulder is 20 x 15 x 10 cm | 3-Aug-11 |
| 92114 | 2011 | 92005+92114 | West Rim | 535337 | 6312211 | Boulder | Grab | 3000 | dol-Carb? | f.g., suc, fl (abnt, flecks), mod lim withing, Carb (S3 or S4) | Numerous RA boulders in hole | 3-Aug-11 |
| 92115 | 2011 | 92115 | West Rim | 535476 | 6312165 | Boulder | Rep Chip | 2800 | dol-Carb? | f.g., lt ol-gy to ol-gy, withd - rusty br, suc, mass, shrd or mottled, fl (abnt, p, vnlets, frags, diss, ~7%), py (minor), B zone? | boulder is 40 x 40 x 20 cm | 3-Aug-11 |
| 92116 | 2011 | 92116 | West Rim | 535424 | 6312109 | Boulder | Grab | 1350 | Carb | f.g., pale gr-gy, suc, fl (f.g. clsts, v.f.g. diss), py (f.g., 5%), mafics (3%), Carb (S3)?, Nb? | under moss, boulder is 40 x 40 x 20 cm | 3-Aug-11 |
| 92117 | 2011 | 92117 | West Rim | 535289 | 6312103 | Boulder | Grab | 2000 | Carb | f.g., lt gr-gy, suc, mass, fl (abnt, v.f.g., diss, vnlets), py (f.g., 3%), hem (2-3%, equant, after mag?, specular), Carb (S3)?, Nb? | boulder is 50 x 30 x 15 cm | 3-Aug-11 |
| 92118 | 2011 | 92118 | West Rim | 535182 | 6312120 | Boulder | Chip-Grab | 1900 | Carb | m.g., med gy-br, fl (v. dk, 1-2%), py (r), RA throughout | 3 cm Fe crust, boulder is 50 x 50 x 30 cm | 3-Aug-11 |
| 92119 | 2011 | 92119 | West Rim | 535080 | 6312304 | Boulder | Grab | 2200 | dol-Carb | f.g., lt gr-gy, Glim frags cut by qtz vns (glassy), fl (diss, v.f.g.), py (minor), REE? | boulder is 1 x 0.5 m ² , half buried | 3-Aug-11 |
| 92120 | 2011 | 92120 | West Rim | 534983 | 6312544 | Boulder | Grab | 950 | dol-Carb | f.g., lt gy, py (1%), fl (small frags & vnlets), Carb (S3)? | boulder is 50 x 40 x 30 cm | 3-Aug-11 |
| 92121 | 2011 | 92121 | West Rim | 535102 | 6312604 | Boulder | Rep Chip | 3400 | Carb (S3) | f.g., v. lt gr-gy, suc, fl-py-phl-pych (2%), Nb | Area of high BG CPS | 3-Aug-11 |
| 92122 | 2011 | 92122 | West Rim | 535225 | 6312587 | Boulder | - | 26000 | - | v. well rnd | boulder is 50 x 50 cm | 3-Aug-11 |
| 92123 | 2011 | BPOC05 | Beckling | 539123 | 6312439 | Outcrop | Grab | 100 | meta-Sed? | f.g., lt gy, withd - lt br to og-br, mod fol, dol, msc pblc, mica? | found on high ridge, well vegetated | 3-Aug-11 |
| 92124 | 2011 | BPOC06 | Beckling | 539171 | 6312677 | Outcrop | Grab | -1 | meta-Sed? | f.g., med gy, withd - og-gy, bedding, str fol, py (1%), bio (bnd), qtz & Carb cement, psammite? pelite? | taken from ridge, poor exposure, well vegetated | 3-Aug-11 |
| 92125 | 2011 | BPOC07 | Beckling | 539857 | 6313065 | Outcrop | Grab | -1 | meta-Sed? | f.g., med gy, withd - gy-br, wk fol, cc (clsts), chl? (tr), py, bio (minor) | OC on ridge taken from heaved block, poor exposure | 3-Aug-11 |
| 92276 | 2011 | 92276 | West Rim | 535140 | 6312367 | Boulder | Grab | 4500 | dol-Carb? | c.g. to v.f.g., fl, bio, py (minor) | cluster of 4 boulders (ang), boulders are ~60 x 40 x 10 cm | 4-Aug-11 |
| 92277 | 2011 | 92277 | West Rim | 535113 | 6312494 | Boulder | Grab | 1150 | dol-Carb? | v.f.g., fl (abnt, patches, vnlets), py (tr, 1%), bio | ang boulder is 1 x 0.4 x 0.15 m | 4-Aug-11 |
| 92278 | 2011 | 92278 | West Rim | 535119 | 6312512 | Boulder | Grab | 1200 | dol-Carb | f.g., lt gy, suc, hem (square xtls, pseudomorphic), po (suh), py (tr), phl | rnd boulder is 50 x 35 x 40 cm | 4-Aug-11 |
| 92279 | 2011 | 92279 | West Rim | 535119 | 6312534 | Boulder | Grab | 1350 | - | f.g., lt gy, suc, hem? (1%, f.g.), fl, minor frac fillings, py (minor, f.g.), Carb (S3), Nb? | ang boulder is 30 x 15 x 30 cm | 4-Aug-11 |
| 92280 | 2011 | 92280 | West Rim | 535112 | 6312595 | Boulder | Chip-Grab | 3000 | dol-Carb? | m.g., ctc between 2 rocks: Fe-dol-Carb, mag (equant xtls), fl (minor), py, pych; dol-Carb, fl (minor), bio (frac fill, abnt), hem (tr), py similar to sample 92280 | boulder is 1 x 1 x 1.2 m | 4-Aug-11 |
| 92281 | 2011 | 92281 | West Rim | 535111 | 6312594 | Boulder | Chip-Grab | 3000 | dol-Carb | c.g., py (tr, pseudomorph), hem?, phl?, fl (small clsts) | sub ang boulder is 50 x 40 x 20 m | 5-Aug-11 |
| 92282 | 2011 | 92282 | West Rim | 535141 | 6312664 | Boulder | Grab | 4000 | dol-Carb | f.g. to m.g., fl (bnds, f.g.), py (m.g.), hem? (met, equant) | sub ang boulder is 50 x 25 x 20 cm | 4-Aug-11 |
| 92283 | 2011 | 92283 | West Rim | 535099 | 6312744 | Boulder | Grab | 1550 | dol-Carb? | m.g., hem? (~4-5%), pych?, py (tr), fl (minor) | 2-3 sub rnd boulders is 40 x 15 x 25 cm | 4-Aug-11 |
| 92284 | 2011 | 92284 | West Rim | 535051 | 6312818 | Boulder | Grab | 1700 | dol-Carb | c.g., lt gy to br, fl (patches), py (tr) | ang boulder is 30 x 30 x 20 cm | 4-Aug-11 |
| 92285 | 2011 | 92285 | West Rim | 534933 | 6312784 | Boulder | Grab | 1250 | dol-Carb? | f.g., withd - og-br, suc, py (minor), fl, cbnt (phenos) | sub ang boulder is 75 x 40 cm | 5-Aug-11 |
| 92286 | 2011 | 92286 | West Rim | 534830 | 6313220 | Boulder | Grab | 2250 | dol-Carb | f.g., lt gy, suc, mass, fl (p, frac fill, f.g. to m.g., diss), ukn min (f.g., y) | - | 5-Aug-11 |
| 92287 | 2011 | 92287 | West Rim | 534809 | 6313212 | Boulder | Grab | 1225 | dol-Carb | f.g., dk gy, withd - og-br, suc, fl (p, diss patches), phl? (v.f.g., diss patches), late dol (c.g., y) | 2 cm thick withd crust | 5-Aug-11 |
| 92288 | 2011 | 92288 | West Rim | 534763 | 6313214 | Boulder | Grab | 1350 | dol-Carb? | f.g., lt gy, withd - og-br, xtn, py (tr, diss), fl (p, diss) with assoc. ukn min (f.g., og-br to y, RE-Flc?) | sub ang boulder is 30 x 30 x 10 cm, 1.5 cm withd crust | 5-Aug-11 |
| 92289 | 2011 | 92289 | West Mag High | 534736 | 6313220 | Boulder | Grab | 2300 | dol-Carb? | f.g., pale ol, withd - og-br, suc, fl (streaks, patches, p, diss), py (tr, diss), REE? | 1 cm thick og-br withd crust, ang boulder is 60 x 40 x 20 cm | 5-Aug-11 |
| 92290 | 2011 | 92290 | West Rim | 534823 | 6313067 | Boulder | Grab | 1900 | dol-Carb? | c.g., areas of v.f.g., lt ol to y, withd - og-br, xtn, suc, fl (abnt, p), py (tr) | 1.5 cm withd crust, ang boulder is 90 x 70 x 30 cm | 5-Aug-11 |
| 92291 | 2011 | 92291 | West Rim | 534858 | 6313051 | Boulder | Grab | 2400 | dol-Carb? | c.g., withd - og-br, mass, xtls, py (minor, 1%), fl (v. dk p, bnds) | 1 cm withd crust, ang boulder is 1.5 x 1 x 1 m | 5-Aug-11 |
| 92292 | 2011 | 92292 | West Rim | 534904 | 6312989 | Boulder | Grab | 2350 | dol-Carb? | f.g., tan, withd - lt br, suc, dol (phenos), ukn min (dk, met, equant, fl?), fl (patches, broken stringers, p) | - | 5-Aug-11 |
| 92293 | 2011 | 92293 | West Rim | 534939 | 6312972 | Boulder | Grab | 1800 | dol-Carb | f.g., cr, suc, mass, fl (patches, diss), small clsts (~20 cm, flat, sub ang) | 1-m ² area of till reads 2600 CPS | 5-Aug-11 |
| 92294 | 2011 | 92294 | West Rim | 534999 | 6312943 | Boulder | Grab | 2600 | dol-Carb | f.g., cr-tan, withd - og-br, suc, fl (diss, f.g., xtls, frac fill), py (1%, diss), assoc. with fl, mins (tiny, blk) | sub ang boulder is 50 x 40 x 20 cm, mixed amongst other non-RA boulders | 5-Aug-11 |
| 92295 | 2011 | 92295 | West Rim | 535048 | 6312894 | Boulder | Grab | 3000 | dol-Carb | f.g., lt cr, withd - og-br, suc, fl (patches), ukn mins (dk br, bnds, f.g.), py (tr) | boulder is 50 x 60 x 30 cm | 5-Aug-11 |
| 92297 | 2011 | 92297 | West Rim | 534867 | 6312969 | Boulder | Grab | 2100 | dol-Carb | f.g., y-gy, xtls, dol (phenos, c.g.), py (tr, clsts), fl (abnt, p) | boulder is 100 x 40 x 40 cm | 5-Aug-11 |
| 92298 | 2011 | 92298 | West Rim | 534866 | 6313020 | Boulder | Grab | -1 | dol-Carb? | f.g., gr-gy, suc, fl (diss, patches, streaks, clsts), py (tr) | sub rnd boulder is 40 x 30 x 40 cm | 5-Aug-11 |
| 92299 | 2011 | 92299 | West Rim | 534865 | 6313063 | Boulder | Grab | 1700 | dol-Carb | f.g., ol-gy, withd - og-br, suc, ukn min (patches, y-br, c.g., xtn), fl (frac fill, bnds), py (minor) | sub rnd boulder is 80 x 60 x 50 cm | 5-Aug-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|----------------|------------------|----------------|-----------------|----------|-------------|---------|-----------------|--|--|--------------|
| 92300 | 2011 | 92300 | Beckling | 539148 | 6312887 | Outcrop | Rep Chip | 13000 | dol-Carb | f.g., lt y-gr, suc, fl (abnt, v.f.g., diss, f.g. streaks up part of OC?), py (abnt, diss on shr? planes) | chip area is 1.5 x 2 m | 6-Aug-11 |
| 92301 | 2011 | 92301 | Beckling | 539150 | 6312890 | Outcrop | Chip | 8000 | dol-Carb | f.g., lt-gy, suc, fl (p, f.g., bnds, mm thick), proximal to amph-px scht (pheno?), contains pheno material, py (1-2%) | - | 6-Aug-11 |
| 92302 | 2011 | 92302 | Beckling | 539151 | 6312892 | Outcrop | Chip | -1 | Amph-Px Scht? | f.g., blk and dk gy, str fol, asicular aggregated needle-like amph or px? (augerine? no amph?, blk-gr), small cbnt mins | - | 6-Aug-11 |
| 92304 | 2011 | 92304 | Beckling | 539143 | 6312882 | Outcrop | Chip | 5000 | dol-Carb | f.g., y to ol-gy, mass, suc, fl (p, frac fill), py (patches, abnt) | taken from end of small dug trench | 6-Aug-11 |
| 92305 | 2011 | 92305 | Beckling | 539140 | 6312883 | Outcrop | Chip | 9000 | dol-Carb | v. withd, shrd?, fl (abnt) in shrd material | taken next to 92304, withd hard to get fresh sample | 6-Aug-11 |
| 92306 | 2011 | 92306 | Beckling | 539139 | 6312885 | Outcrop | Chip | 10500 | dol-Carb | f.g., y to ol-gy, mass, str fol, shrd?, py (abnt, gives high CPS), fl (p) | well withd, sample taken further down trench | 6-Aug-11 |
| 92307 | 2011 | 92307 | Beckling | 539137 | 6312890 | Outcrop | Chip | 4500 | dol-Carb | f.g., lt gy, withd - og-br, mass, fl (clsts, diss, euh, p) | taken from east end of small trench | 6-Aug-11 |
| 92308 | 2011 | 92308 | Beckling | 539129 | 6312893 | Outcrop | Chip | 6000 | dol-Carb | f.g., y to ol-gy, suc, mass, finely bnded, py (minor, euh), fl (tr, streaks) | Discontinuous chip across 1.8 m | 6-Aug-11 |
| 92309 | 2011 | 92309 | Beckling | 539124 | 6312905 | Outcrop | Grab | 7050 | dol-Carb | f.g., y-gy, withd - og-br, mass, suc, areas of ctsc?, fl (bnds, diss, patches, euh, p), py (diss, patches) | - | 6-Aug-11 |
| 92310 | 2011 | 92310 | Beckling | 539049 | 6313047 | Boulder | Grab | 2700 | dol-Carb? | f.g., lt br-gy, withd - og-br, suc, mottled, py (minor), cloudy dk patches, fl (v. minor) | 1 cm withd crust, ang boulder is 20 x 10 x 8 cm | 6-Aug-11 |
| 92311 | 2011 | 92311 | Beckling | 539049 | 6313053 | Boulder | Grab | 1900 | dol-Carb? | f.g., lt br to med br-gy, suc to xtnl, mottled to mass, py (abnt, diss, v.f.g., 10%), fl (minor, m.g., patches) | sub rnd boulder is 25 x 15 x 5 cm | 6-Aug-11 |
| 92312 | 2011 | 92312 | Beckling | 539065 | 6313045 | Boulder | Grab | 4100 | Glim / dol-Carb | f.g., blk to lt gy-gr, suc, mod fol, bio (post tectonic, phenos), py (common, f.g., diss) | sub ang boulder is 50 x 60 x 40 cm | 6-Aug-11 |
| 92313 | 2011 | Oc92313 | Beckling | 538870 | 6312982 | Boulder | Chip | 550 | dol-Carb | f.g., med gy, withd og-br, suc, mass, ukn min (bnds, v.f.g., dk), py (tr) | - | 6-Aug-11 |
| 92314 | 2011 | 92314 | Miranna | 537288 | 6313074 | Boulder | Grab | 5200 | dol-Carb | tan, f.g., suc, bimodal size distribution of dol grains, py (minor), pych (1-2%, diss, dk br) | cluster of 4 large buried boulders, area is 1 x 1 x 0.4 m | 7-Aug-11 |
| 92315 | 2011 | 92315 | Miranna | 537345 | 6313011 | Boulder | Grab | -1 | dol-Carb | lt gy, f.g., patches & streaks (pale og-tan), py (minor, f.g.), fl (diss) | 2 sub rnd boulders 50 x 40 x 40 cm | 7-Aug-11 |
| 92316 | 2011 | 92316 | Miranna | 537474 | 6312833 | Boulder | Grab | 2300 | dol-Carb | f.g., lt gy, mod bnded, py (1%), fl (tr) | half buried boulder is 40 x 40 x 20 cm | 7-Aug-11 |
| 92317 | 2011 | 92317 | Miranna | 537840 | 6312179 | Boulder | Grab | 1850 | dol-Carb | f.g., tan, suc, py (<1%), fl (minor, vague bnds), phl (tr) | ang boulder is 40 x 70 x 15 cm | 7-Aug-11 |
| 92318 | 2011 | 92318 | Miranna | 538015 | 6312136 | Boulder | Grab | 1350 | dol-Carb | f.g., xtnl, phl (abnt, f.g.), small Glim clsts | rnd boulder is 1 x 1 x 0.3 m, surface shows abnt frags (elongate) | 7-Aug-11 |
| 92319 | 2011 | 92319 | Miranna | 537735 | 6312263 | Boulder | Chip | -1 | dol-Carb | f.g., tan, suc, xtnl, bimodal, py (tr to minor, patches), fl (tr, patches), pych (<1%) | sub ang boulder is 1 x 0.5 x 2 m | 7-Aug-11 |
| 92320 | 2011 | 92320 | Miranna | 537550 | 6312357 | Boulder | Grab | -1 | dol-Carb | f.g., w to gy, fl (wk diss, bnds, streaks), py (minor, 1%), fl (scattered), pych (phenos, f.g.) | sub rnd boulder is 50 x 40 x 40 cm | 7-Aug-11 |
| 92321 | 2011 | 92321 | Miranna | 537534 | 6312393 | Boulder | Grab | 2800 | dol-Carb | f.g., lt gy, suc, fl (streaks, 1%), py (tr) | rnd boulder is 20 x 10 x 10 cm | 7-Aug-11 |
| 92322 | 2011 | 92322 | Miranna | 537372 | 6312874 | Boulder | Grab | 1500 | dol-Carb | f.g., lt cr, withd surface displays bnds, fl rich bnds (cm scale, discontinuous), py (minor, patches, often assoc. with fl), pych (tr) | sub rnd boulder is 50 x 40 x 40 cm | 7-Aug-11 |
| 92323 | 2011 | 92323 | Miranna | 537351 | 6312960 | Boulder | Grab | 8200 | dol-Carb | f.g., lt gy, fl (patches), phenos (minor, dk) | sub ang buried boulder is 30 x 30 x ?cm | 7-Aug-11 |
| 92324 | 2011 | 92324 | Triple-D | 535775 | 6313628 | Boulder | Grab | 4500 | dol-Carb | m.g., cr-tan, fl (abnt, streaks), phl (minor), py, pych, phl (films, zones) | and boulder is 40 x 40 x 20 cm | 8-Aug-11 |
| 92325 | 2011 | 92325 | Triple-D | 535757 | 6313594 | Boulder | Grab | 3200 | dol-Carb? | f.g.-m.g., med ol-gr, patchy, fl (thin zones, f.g.), py (minor, f.g.), ukn min (r-br, fibrous) | several broken boulders in area 80 x 80 x 30 cm | 8-Aug-11 |
| 92351 | 2011 | 92351 | Triple-D | 535756 | 6313582 | Boulder | Grab | 3350 | dol-Carb? | f.g., lt ol-gr, brc, fl (abnt, frac fill, diss), py (minor, f.g.), similar to sample 92325 | sub rnd boulder is 1 x 0.6 x 0.3 cm | 8-Aug-11 |
| 92352 | 2011 | 92352 | Triple-D | 535720 | 6313491 | Boulder | Grab | 4500 | dol-Carb? | f.g., med gr-gy, mass, homo, py (minor, f.g.), fl (diss, v.f.g.) | ang boulder is 70 x 40 x 30 cm | 8-Aug-11 |
| 92353 | 2011 | 92353 | Triple-D | 535703 | 6313355 | Outcrop | Chip | 700 | dol-Carb | f.g., p-w, patches of gr, suc, abnt fine flecks, fl (diss, distribution defines crude bnds, 25%), py (1%, f.g.), cbnt (scattered xtls) | 12 m wide, frags dividing dol-Carb in ~2 x 1 m blocks | 8-Aug-11 |
| 92354 | 2011 | 92354 | Triple-D | 535757 | 6313372 | Boulder | Grab | 4850 | dol-Carb | f.g., lt gy-gr, suc, mottled, fl (abnt, p, diss, streaks, frac fill, ~15-20%), py (patchy) | ang boulder is 1 x 0.6 x 0.25 m | 8-Aug-11 |
| 92355 | 2011 | 92355 | Triple-D | 535811 | 6313391 | Boulder | Grab-Chip | 3100 | dol-Carb? | f.g., lt gy-gr, suc, bnds (pale p & y-br), fl (bnds, flecks, irregular frac fill), py (minor, f.g.), similar to 92354 | several small monolithic (1 type) boulders in 1 x 1 m area | 8-Aug-11 |
| 92356 | 2011 | 92356 | Triple-D | 535847 | 6313407 | Boulder | Grab-Chip | 1000 | dol-Carb? | f.g., lt ol-gy, mottled to poorly bnded, fl (abnt, ~20%, early frac fill, wk diss, flecks), py (minor, f.g.) | broken boulder is ~1.5 x 0.5 x 0.5 m | 8-Aug-11 |
| 92357 | 2011 | 92357 | Miranna | 536240 | 6313539 | Boulder | Grab | 500 | dol-Carb | f.g., w-br to lt gy, mass, extremely leucocratic, xtnl, fl? (tr, f.g.), py?, w-br patches | ang, mostly unmineralized boulder field is 5 x 5 m | 8-Aug-11 |
| 92358 | 2011 | 92358 | Triple-D | 535990 | 6313465 | Boulder | Grab-Chip | 2350 | dol-Carb | c.g., lt gy-tan, mottled, locally abnt xenocrysts of carb, mins (abnt, equant, dk), phl (patches, f.g.) | sub ang boulder is 2 x 1.7 x 1.2 m | 8-Aug-11 |
| 92359 | 2011 | 92359 | Triple-D | 535867 | 6313510 | Boulder | Grab | 1350 | dol-Carb? | f.g., lt gy, suc, small dol-Carb xenoliths, fl (patches, br-p, diss, frac fill), py (minor) | sub rnd boulder is 30 x 30 x 10 cm | 8-Aug-11 |
| 92360 | 2011 | 92360 | Triple-D | 535839 | 6313512 | Boulder | Grab | 2900 | dol-Carb | f.g., lt p to lt br to lt gr, mottled, fl (bnds, diss, broken clsts, frac fillings), py (minor) | sub rnd boulder is 0.3 x 1 x 1 m, similar to 92360, but more fl | 8-Aug-11 |
| 92361 | 2011 | 92361 | Triple-D | 535828 | 6313516 | Boulder | Grab | 4000 | dol-Carb | lt gr-br, wk bnd, as 92360, fl more fragmented, defines bndg | - | 8-Aug-11 |
| 92362 | 2011 | 92362 | Triple-D | 535813 | 6313554 | Boulder | Grab-Chip | 3850 | dol-Carb? | f.g., med gy-br, xtnl, fl (abnt, dk, f.g., diss), dol (lrg scattered xtls, suh), fl (minor, bnds, streaky, up to 1 cm), py | sub ang boulder | 8-Aug-11 |
| 92363 | 2011 | BP OC 08/05/11 | Beckling | 539147 | 6312887 | Outcrop? | Grab | 13000 | dol-Carb? | f.g., dk br-blk, withd - blk-p to rusty r, v. mass, competent, sul (diss), thorite or thorianite, metabasalt? | possibly a boulder, well vegetated, CPS range 19000-7000 CPS | 5-Aug-11 |
| 92364 | 2011 | BP OC 08/05/11 | Beckling | 539147 | 6312887 | Outcrop? | Grab | 13000 | - | f.g., dk met gy, p, withd - og-br, wk fol, comp bndg, bio (glittery, f.g.), fl (lenses, minor dol), qtz mtx (ltsl, hard!) | same OC? as 92363, CPS range from 19000-7000 CPS | 5-Aug-11 |
| 92365 | 2011 | 92365 | Triple-D | 535810 | 6313620 | Boulder | Grab-Chip | 3450 | dol-Carb | f.g., lt ol to med gy, suc, psd-brc, leucocratic clsts, dk mtx (diss), ukn min (dk, diss, bio?), fl (p, flecks), py (tr) | sub ang boulder is 60 x 40 x 30 cm | 9-Aug-11 |
| 92366 | 2011 | 92366 | Triple-D | 535939 | 6313669 | Boulder | Chip | 1430 | dol-Carb | lt gr-gy with p streaks, mass, wk bnds where fl (wk diss, frac fill), bio (frac fill), gr areas devoid of accessory mins, py (tr) | sub rnd boulder is 50 x 50 x 30 cm, found in sandy till, likely well travelled | 9-Aug-11 |
| 92367 | 2011 | 92367 | Triple-D | 535999 | 6313680 | Boulder | Grab | 2550 | cc-Carb | c.g., pk to v. lt gy, withd - r-br, fl (frac fill), RE-Flc? (frac fill, r), clb (euh, diss) | sub rnd boulder is 30 x 30 x ?cm, from NW zone? | 9-Aug-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|-------|------------------|----------------|-----------------|----------|-------------|---------|--------------|---|--|--------------|
| 92368 | 2011 | 92368 | Miranna | 536028 | 6313684 | Boulder | Chip | 3400 | dol-Carb | m.g. to c.g., lt ol-gy to med gy, withd - og-br, mass, xtlin, fl (abnt, vnlets, chunks & frac fill), RE-Fic? (r-br) | ang boulder is 100 x 80 x 80 cm | 9-Aug-11 |
| 92369 | 2011 | 92369 | Miranna | 536106 | 6314089 | Boulder | Grab | 1050 | dol-Carb | f.g. (mtx), lt-med br-gr, withd - br, mottled, xtlin, brc, clsts (w. f.g., xtlin, ang), py (minor, m.g., 2%) fl (diss, patches) | sub rnd boulder is 80 x 40 x 30 cm | 9-Aug-11 |
| 92370 | 2011 | 92370 | North Glim | 535980 | 6314296 | Boulder | Grab | 1650 | dol-Carb | f.g., med gr-gy, withd - og-br, suc, mass, streaky mottled, fl (patches, vn fill, f.g., diss, p), phl (patches, f.g., diss), py (minor, 1%) | sub rnd boulder is 100 x 50 x 30 cm | 9-Aug-11 |
| 92371 | 2011 | 92371 | North Glim | 535941 | 6314347 | Boulder | Grab | 2750 | dol-Carb | f.g. to c.g. (mtx), gr and p, brc, xtlin, mass, dol xtls (c.g., 80%), fl (diss, frac fill, p), phl (f.g., frac fill, stylo) | sub rnd boulder is 50 x 60 x 50 cm | 9-Aug-11 |
| 92372 | 2011 | 92372 | North Glim | 535858 | 6314284 | Boulder | Grab | 1600 | dol-Carb | c.g., leuco, withd - br to og-br, frac and filled dk mtx, fl (xcut bnds), py (tr) | more infilled material 200 CPS higher than less frac rock, ang boulder is 100 x 80 x 50 cm | 9-Aug-11 |
| 92373 | 2011 | 92373 | North Glim | 535847 | 6314268 | Boulder | Grab | 3000 | dol-Carb | v.f.g., dk gr, withd - r-br, vn brc, suc (mtx), carb clsts (w. c.g., xtls), fl (p, frac fill), py (tr) | sub rnd boulder 60 x 30 x 20 cm | 9-Aug-11 |
| 92374 | 2011 | 92374 | North Glim | 535827 | 6314232 | Boulder | Grab | 3000 | dol-Carb | c.g., w, withd - og-br, xtlin, incipient brc?, xcut vns & vnlets (dk ol-gy, v.f.g.), py (tr), fl | sub rnd boulder is 1 x 1 x 7m | 9-Aug-11 |
| 92375 | 2011 | 92375 | North Glim | 535647 | 6314097 | Boulder | Grab | 800 | dol-Carb | f.g., gy-gr to lt gy, p, withd - og-br, suc, mottled, fl (5%) | 2 boulders, 15 x 8 x 8 cm | 9-Aug-11 |
| 92476 | 2011 | 92476 | North Glim | 535604 | 6314091 | Boulder | Grab | 2200 | dol-Carb? | f.g., dk ol & dk gr-p, suc, mass, mottled, fl (patches, diss, p), py (tr) | ang boulder is 50 x 30 x 20 cm, in coarse till, numerous like boulders in hole | 9-Aug-11 |
| 92477 | 2011 | 92477 | North Glim | 535561 | 6314061 | Boulder | Grab | 2200 | dol-Carb? | f.g., lt gy, suc, fl (abnt, early vns, diss), py (tr) in clsts assoc. with fl | sub ang boulder is 30 x 20 x 10 cm | 9-Aug-11 |
| 92478 | 2011 | 92478 | North Glim | 535596 | 6314000 | Boulder | Grab | 2750 | dol-Carb | f.g., y-gr to gy, withd - og-br, suc, mass, fl (diss, frac fill, p), dol (xtlin, c.g. in vugs), py (tr) | ang boulder is 60 x 50 x 30 cm | 9-Aug-11 |
| 92479 | 2011 | 92479 | Miranna | 537493 | 6311505 | Boulder | - | 375 | dol-Carb | v.f.g. to c.g., lt ol-gr to gy-y, withd - og-br, mafics (few, diss, patches, vnlets, <5%), fl (tr), sul (diss) | ol-gr portions are v.f.g. in comparison to rest (late stage dyke?), boulder is 50 x 20 x 20 cm, ~2-3 cm withd crust, moss covered | 10-Aug-11 |
| 92480 | 2011 | 92480 | Miranna | 537476 | 6311469 | Boulder | - | 4000 | cc-Carb? | v.f.g. to f.g., dk gr-blk (mtx), withd - dk r-br, cc-Carb (abnt, intruding dykes & vns, itsl, ukn min (dk blk, glassy, f.g., equant-suh, psych? clb?)) | boulder is 40 x 35 x 7cm, 1-2 mm withd crust, dug ~20 cm down, 1200 CPS on surface of ground | 10-Aug-11 |
| 92481 | 2011 | 92481 | Miranna | 538193 | 6312138 | Boulder | - | 400 | dol-Carb | v.f.g., dusty gy to gy-y, withd - lt og-br to dk blk-br, no fol, qtz (vnlets, 1-2 mm, xcut) | 2-3 mm withd crust, some c.g. mica visible on crust (up to 1 cm), boulder along side of ridge, sub ang-sub rnd boulder is 5 x 3 x 2 m, CPS ranges from 300-800 CPS | 10-Aug-11 |
| 92482 | 2011 | 92482 | Miranna | 538172 | 6312201 | Outcrop | Chip | 1600 | dol-Carb | v.f.g. to c.g., cr-w to y-gr, withd - br-og, flow bndg, Glim (abnt, clsts, frags, up to 10 cm), sul (c.g., up to 1 cm, py, chp), ukn min (dk r-br, perfect clvg), amph? (~0.5 cm, blk, euh), bio (vnlets, fine bndg), qtz (rare, c.g., on some frac planes) | 1-5 mm withd crust, OC influenced by abnt frost heave, withg can be v. perv, exposed face of OC is 6 x 1.5 m | 10-Aug-11 |
| 92483 | 2011 | 92483 | Miranna | 538227 | 6312339 | Boulder | - | 1900 | cc-Carb | m.g. to c.g., dk pk, withd - dk og-br, mass, mafics (patches, abnt, dk gy-blk, bio?, diss, ~5-10%), sul (tr), qtz | sub rnd boulder is ~50 x 30 x 15 cm, 750 CPS on surface, 1-2 mm withd crust | 10-Aug-11 |
| 92484 | 2011 | 92484 | Miranna | 538200 | 6312384 | Outcrop | Composite | 1000 | Glim | f.g., dk gy-blk, withd - dk og-br, str fol, abnt dol-Carb vnlets, qtz (few small vnlets & clsts), sul (tr) | bio bnds define fol, CPS ranges from 400-1000 CPS, OC is 50 x 5 m | 10-Aug-11 |
| 92485 | 2011 | 92485 | Miranna | 538219 | 6312213 | Boulder | - | 1100 | cc-Carb | f.g. to c.g., mod pk, withd - dk br, abnt mafic stringers & xtls throughout, few amph? (xtls, blk, euh, good clvg), sul (minor-tr), qtz (xtls) | sub rnd boulder is ~50 x 30 cm, 900 CPS on surface | 10-Aug-11 |
| 92486 | 2011 | 92486 | Beckling | 539102 | 6312943 | Outcrop | Grab | 1300 | dol-Carb | f.g., mass, v. leuco, phl, fl (rare), Glim (abnt, f.g., frags, defines crude bndg), accessory min poor | WR (clsts, 1-40 cm) are 25% of OC | 11-Aug-11 |
| 92487 | 2011 | 92010 | Beckling | 539116 | 6312928 | Boulder | Grab | 2950 | dol-Carb | f.g., lt-med ol, suc, mottled, locly wk schs, dol (megacrysts, cr, few), fl (rare, frac fill, itsl, fine patches), py (abnt, diss), qtz vnlet (y) | sub ang boulder is 150 x 7x60 cm | 11-Aug-11 |
| 92488 | 2011 | 92488 | Beckling | 539090 | 6312937 | Outcrop | Chip | 3400 | dol-Carb | f.g., lt ol-gy, suc, mass, fl (p, diss, frac fill, v. abnt in patches), py (minor, diss), qtz vn (xcut, with bio (c.g.)) | - | 11-Aug-11 |
| 92489 | 2011 | 92489 | Beckling | 539092 | 6312936 | Boulder | Grab | 5500 | fl-Carb Scht | f.g., str fol, well fol, fl | HS taken is cr & p, cr coloured rock is c.g., sample is collection of boulders, fl-Carb scht xcuts highly frac'd m.g. Carb containing mass fl vns | 11-Aug-11 |
| 92490 | 2011 | 92490 | Beckling | 539083 | 6312983 | Boulder | Grab | 4000 | dol-Carb | Carb - f.g., lt ol-gy, suc, hetero, fl (diss, p), py (diss), dol-Carb - xcut & brc, mass, f.g. to m.g., xtlin, euh, wk in accessory mins | suc Carb hotter, not too far travelled, sub ang boulder is 120 x 40 x 40 cm | 11-Aug-11 |
| 92491 | 2011 | 92491 | Beckling | 539080 | 6313000 | Outcrop? | Grab | 5000 | dol-Carb | f.g., lt gy to lt ol, suc, mottled, mass, py (minor, diss, clumpy, scattered), phl (patches) | short sub vert face, no edges, 40 cm exposure | 11-Aug-11 |
| 92492 | 2011 | 92492 | Beckling | 538865 | 6312992 | Outcrop | Grab | 1340 | dol-Carb | f.g., med gy, xtlin, bnded, wk fol, fl (diss), bio (abnt, f.g., likely incorporated from WR) | No msmts, OC has shifted slightly, Glim pockets in OC | 11-Aug-11 |
| 92493 | 2011 | 92493 | Miranna | 537196 | 6313861 | Boulder | - | 3000 | dol-Carb | f.g., lt y-gy to gy-br with gy patches, withd - dk r-br, suc, dol (xenocrysts, large), py (~3-5%, euh, some withd), fl (tr), phl, psych (minor, f.g., equant), Carb (S3), Nb | sub rnd boulder is 80 x 50 x 50 cm, 1500 CPS on surface, moss covered, 0.5 cm withd crust, 2 boulders that have been separated by frost heave | 12-Aug-11 |
| 92494 | 2011 | 92494 | Miranna | 537178 | 6313828 | Boulder | - | 1800 | dol-Carb | f.g., y-gy, withd - og-br, mass, suc, dol (xenocrysts), py (3-5%), psych (minor), phl, fl | sub rnd boulder is 40 x 60 x 20 cm, sample taken from 2 boulders side by side | 12-Aug-11 |
| 92495 | 2011 | 92495 | Miranna | 536670 | 6313873 | Boulder | Grab | 1400 | dol-Carb | f.g., lt gy, withd - dk br-r, suc, mass, fl (abnt, fine flecks, streaks, p), sul (minor to tr), mica, mnz? (tetragonal, med br-gy, speckled) | - | 12-Aug-11 |
| 92496 | 2011 | 92496 | Miranna | 537055 | 6313860 | Boulder | - | 2780 | dol-Carb | v.f.g. to f.g., y-gy, suc, dol (xenocrysts), fl (patches), sul (tr to minor), phl, psych (minor) | rnd boulder is 70 x 30 x 10 cm | 12-Aug-11 |
| 92497 | 2011 | 92497 | North Glim | 535671 | 6313822 | Boulder | Chip | 4000 | dol-Carb | ferro-Carb?, f.g., pale ol-gy, areas of pale ol, m.g., xtlin, withd - og-br, suc, hetero, fl (abnt, stringers, p, f.g., diss), py (tr) | thin withd crust, 1 cm thick on m.g. Carb, ang boulder is 40 x 50 x 30 cm | 15-Aug-11 |
| 92498 | 2011 | 92498 | North Glim | 535658 | 6313861 | Outcrop | Grab | 3000 | dol-Carb | m.g., cr, withd - lt br, mass, xtlin, psych? (minor, diss, euh, dk gy to blk) | CPS range from 500-3000 CPS, areas with more dk gy min hotter, OC is up to 5 m high, part of OC contains f.g., suc Carb (etc?) | 15-Aug-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|-------|------------------|----------------|-----------------|---------|-------------|---------|-----------------|--|--|--------------|
| 92499 | 2011 | 92499 | North Glim | 535657 | 6313858 | Outcrop | Grab | 1000 | dol-Carb | f.g., pale ol, wthd - og-br, mass, suc, psych? (minor, diss, c.g., euh, blk), accessory min poor | , f.g. Carb xcuts m.g. Carb? | 15-Aug-11 |
| 92500 | 2011 | 92500 | North Glim | 535658 | 6313857 | Outcrop | Grab | 500 | Glim | f.g., blk, wthd - dk br, mod fol (fenitized WR?), dol (abnt, itsl, f.g., xtl) xcut by dol-Carb (f.g., suc), bio | - | 15-Aug-11 |
| 92551 | 2011 | 92551 | North Glim | 535286 | 6314072 | Boulder | Grab | 2800 | dol-Carb | f.g. to m.g., cr, wthd - r-br, wk bnd, xtl, psych? (diss, blk, euh, xtl), dol (xcut, bnds, dk gy, f.g.), ukn mins (v.f.g., r), py (abnt) | sub ang boulder is 2 x 1 x ?m | 15-Aug-11 |
| 92552 | 2011 | 92552 | North Glim | 535183 | 6314023 | Boulder | Grab | 2000 | dol-Carb | f.g., pale ol, wthd - og-br, suc, mass with locid wk fol, bio (v.f.g., frac fill), py (minor), mag? | 0.5 cm thick wthd crust, sub rnd boulder is 50 x 50 x 30 cm | 15-Aug-11 |
| 92553 | 2011 | 92553 | North Glim | 535131 | 6314157 | Outcrop | Chip | 370 | Syn? | v.f.g., b-gy, wthd - r, mass, porous, bio (abnt, f.g., diss, rimming small qtz xtls), py (tr, euh, diss), ukn mins (r-br) also rimming xtls (wthd mins?), cc (vnlets, small) | OCJ11-018 (no wpt but same loc as this sample) - small OC, 2 m x 3 m, extends a long way along ridge, rounded, wthd - very porous | 15-Aug-11 |
| 92554 | 2011 | 92554 | North Glim | 535087 | 6314193 | Outcrop | Grab | 200 | meta-Sed? | v.f.g., med gy, wthd - dk gy, no-str fol, mag (euh, 5-10%), bio (abnt, f.g.), cc (vnlets, locly, f.g., diss) | no msmts possible, OC has shifted | 15-Aug-11 |
| 92555 | 2011 | 92555 | West Rim | 534987 | 6313686 | Outcrop | Grab | 300 | Glim / dol-Carb | f.g., cr, wthd - og-br, dol (suc, 50%), cc (v.f.g.), Glim (f.g., 40%), mod fol, py (tr) | - | 15-Aug-11 |
| 92556 | 2011 | 92556 | West Rim | 534992 | 6313582 | Outcrop | Grab | 400 | Syn? | f.g., dk gy (gdmass), wthd - og-br, wk fol, fsp? (60%), bio (30%, f.g.), mag (diss, c.g., euh, xtls up to 0.1 cm, 10%) | - | 15-Aug-11 |
| 92557 | 2011 | 92557 | West Rim | 535003 | 6313559 | Outcrop | Grab | 370 | Syn? | f.g. gdmass, cr, wthd - gy, mod fol, fsp? (H>5), abnt bio (20%), mag (c.g., euh, diss), py (tr, diss, euh) | wthg has small (0.5 cm) xtls sticking out, fsp? | 15-Aug-11 |
| 92558 | 2011 | 92558 | West Rim | 535002 | 6313561 | Outcrop | Grab | 450 | dol-Carb | v.f.g., pale ol, wthd - og-br, suc, mass, dol-Carb (xcut dyke, 20 cm thick), ukn mins (minor, f.g., diss, blk, bio?), sul (tr) | - | 15-Aug-11 |
| 92559 | 2011 | 92559 | West Rim | 535083 | 6313593 | Outcrop | Grab | 1000 | dol-Carb | f.g., pale ol, wthd - lt og-br, mass, ukn mins (minor, f.g., diss, blk), py (tr, diss), act? (gr, frac fill, fibrous) | - | 15-Aug-11 |
| 92560 | 2011 | 92560 | West Rim | 535081 | 6313617 | Unknown | Chip | 1000 | dol-Carb | gr, wthd - br, amph? (b, up to 20%, needles, euh, often in patches, clsts?, stringers), RE-Flc? (r-br, small bleb, ~0.1 cm) | - | 15-Aug-11 |
| 92561 | 2011 | 92561 | Southeast | 540056 | 6309748 | Boulder | - | 700 | dol-Carb | v.f.g., ol-gy, wthd - og-br, mafics (few patches), sul (c.g.), qtz (clsts, vnlets), fl (minor, streaks) | 500 CPS on surface, boulder is ~40 x 25 x 20 cm | 17-Aug-11 |
| 92562 | 2011 | 92562 | Southeast | 540070 | 6309682 | Boulder | Grab | 800 | dol-Carb | v.f.g., dk gr-gy, mass, xtl, clsts (few, dk gy-p, siliceous, ang to sub ang, 0.3-2 cm), mafics (few, vnlets, bio, sul), dol vns (late stage, qtz in center), sul (tr) | perv wthg along minor fracs penetrating Carb, sub rnd-sub ang boulder is ~40 x 30 x 30 cm | 17-Aug-11 |
| 92563 | 2011 | 92563 | Southeast | 539739 | 6310010 | Boulder | - | 640 | dol-Carb | v.f.g. to c.g., gy-gr, wthd - br, mass, xtl, qtz vns (abnt, ± dol, xcut), fl (tr), mafic stringers | wthd crust penetrates rock along vn boundaries and fracs, boulder is ~1 x 0.4 x 1.5 m, moss covered | 17-Aug-11 |
| 92564 | 2011 | 92564 | Southeast | 539573 | 6310051 | Boulder | Comp | 975 | dol-Carb | v.f.g. to c.g., finely bnded, late stage bnd (ol-gy, v.f.g., 2 cm), dol, qtz vns (xcut, c.g.), sul (tr) | fresh surface masked by perv wthg, 550 CPS on ground surface, boulders are flat, blocky, sub ang | 17-Aug-11 |
| 92565 | 2011 | 92565 | Southeast | 539414 | 6310116 | Boulder | - | 550 | dol-Carb | f.g., gr-gy, wthd - dk og-br, str fol, xtl, mafics (abnt, stringers, vnlets), sul (common, up to 1 mm), Carb (~70%), Glim (30%) | 1-5 mm wthd crust, boulder is 3 x 1 x 1.5 m, thickly moss covered, Glim stringers define fol | 17-Aug-11 |
| 92566 | 2011 | 92566 | Southeast | 539274 | 6310246 | Boulder | - | 2250 | dol-Carb / Glim | Carb (70%) - v.f.g. to f.g., lt gr-gy, wthd - dk r-br, mass, qtz (vnlets, few), sul (tr), Glim (30%) | 1-2 mm wthd crust, 1600 CPS on moss, boulder is 40 x 30 x ?cm, on neighbouring boulder: abnt wthd sul? (dk r-br, c.g., euh), took HS | 17-Aug-11 |
| 92567 | 2011 | 92567 | Southeast | 538840 | 6310187 | Boulder | - | 2300 | cc-Carb | f.g. to c.g., pk-peach, wthd - dk r-br, bio (~5-10%, diss, vnlets), sul (diss throughout), psych? (minor, br, euh) | 1000 CPS at surface, sub ang boulder is ~1 x .075 x .075 m, 1 mm wthd crust | 17-Aug-11 |
| 92568 | 2011 | 92568 | Southeast | 538815 | 6310134 | Boulder | - | 2500 | dol-Carb | f.g. to m.g., gr-gy, wthd - gy-blk, mag (abnt, dk b, met, c.g., xtl, euh, >10%), sul (tr) | 1100 CPS on ground surface, very dense (high SG), 3-4 mm wthd crust, boulder is sub ang and buried | 17-Aug-11 |
| 92569 | 2011 | 92569 | PANDS | 535356 | 6313493 | Boulder | Chip | 2000 | dol-Carb | gr, wthd - og-br, mag cumulate? (up to 0.3 cm xtls, ~20%) | ~1 cm wthd crust | 19-Aug-11 |
| 92570 | 2011 | 92570 | West Rim | 535089 | 6313619 | Outcrop | Chip | 600 | dol-Carb? | f.g., gr, amph (abnt, ~15%, euh, up to 1.5 cm, asbestos), RE-Flc? (patches, r, oxidized?) | sample is 50 x 40 cm | 19-Aug-11 |
| 92571 | 2011 | 92571 | West Rim | 535103 | 6313626 | Outcrop | Chip | 500 | dol-Carb | m.g., wthd - og-br, bio (patches, ~0.1 cm), cc (itsl, f.g.), sul (common) | sample is 30 x 20 cm | 19-Aug-11 |
| 92572 | 2011 | 92572 | West Rim | 535117 | 6313640 | Unknown | Chip | 400 | dol-Carb | c.g., wthd - br, suc, sul (tr), few bio? (blk, few, pockets, dyke?) | sample is 40 x 20 cm | 19-Aug-11 |
| 92573 | 2011 | 92573 | West Rim | 535110 | 6313637 | Unknown | Chip | 600 | dol-Carb? | f.g., dk gr-gy to pk, wthd - br, amph (needles, ~5%, euh, forming circles), sul (abnt) | sample is 20 x 30 cm | 19-Aug-11 |
| 92574 | 2011 | 92574 | West Rim | 535139 | 6313623 | Outcrop | Chip | 6000 | dol-Carb | f.g., gy, wthd - br, bio (layers, f.g., intruded by ukn min (eudialite?, r-p, c.g.)), gal, sul, probably late fluid event | sample is ~50 x 50 cm, ~2-3 m zone of high RA | 19-Aug-11 |
| 92575 | 2011 | 92575 | West Rim | 535138 | 6313624 | Outcrop | Chip | 6000 | dol-Carb | as sample 92574 | - | 19-Aug-11 |
| 92926 | 2011 | 92926 | PANDS | 535516 | 6313289 | Outcrop | - | 350 | dol-Carb | v. lt gy-w, wthd - dk og-br, blocky, Glim (abnt, patches, vnlets), aitrn mins (few, frac fill, gr, v.f.g.) | OC exposure [?] is 4 x 1 m | 26-Aug-11 |
| 92927 | 2011 | 92927 | PANDS | 535506 | 6313296 | Boulder | - | 1300 | dol-Carb | f.g. to m.g., lt gy-gr, wthd - og-br, mass, xtl, suc, bio (minor, vnlets, patches (up to 20%)), fl (tr, clsts?), sul | boulder is 50 x 40 x 35 cm, 1.5 cm wthd crust, perv wthg, 1050 CPS on ground surface | 26-Aug-11 |
| 92928 | 2011 | 92928 | PANDS | 535513 | 6313251 | Outcrop | - | 400 | dol-Carb | v.f.g. to c.g., y-gy to gr, wthd - og-br, homo, mass, xtl, qtz vns (few), bio (tr, vnlets), sul | str frost heave, blocky, OC exposure [?] is 4 x 1.5 m | 26-Aug-11 |
| 92929 | 2011 | 92929 | PANDS | 535501 | 6313227 | Outcrop | - | 4000 | dol-Carb | v.f.g. to m.g., gr-b, wthd - y-br-og, homo, mass, xtl, mnz? (few rich streaks, lt y, xtl, transparent, f.g.), sul (tr, clusters up to 1 cm) | 0.5 cm wthd crust, OC exposure [?] is 3 x 0.5 m | 26-Aug-11 |
| 92930 | 2011 | 92929 | PANDS | 535501 | 6313227 | Outcrop | - | 5000 | dol-Carb | f.g. to m.g., gr-gy, wthd - y-br-og, xtl, blocky, mnz? (rich sections, y), Carb vn (ol-gr-gy, v.f.g., ~1.5 cm), sul (common), gal (streaks), mafics (tr, stringers) | OC exposure [?] is 3 x 0.5 m | 26-Aug-11 |
| 92931 | 2011 | 92929 | PANDS | 535501 | 6313227 | Outcrop | - | 700 | dol-Carb | f.g. to m.g., y-gy, wthd - dk og-br, xtl, Glim (abnt, patches, vnlets (~30%)), sul (tr), qtz (rare, clsts) | OC exposure [?] is 3 x 0.5 m | 26-Aug-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|--------------|------------------|----------------|-----------------|----------|-------------|---------|------------------|--|--|--------------|
| 92932 | 2011 | 92929 | PANDS | 535502 | 6313228 | Boulder | - | 1600 | dol-Carb | f.g. to m.g., gr-gy, wthd - og-br, xtn, mnz? (patches, y), fl (abnt, streaks, patches (~5%)), sul (tr), mafics (vnlets) | ang boulder is ~40 x 30 x 20 cm, 0.5 cm wthd crust, located ~4-5 m down ridge from OC, perhaps heaved off?, buried by moss | 26-Aug-11 |
| 92933 | 2011 | 92933 | West Rim | 535284 | 6313233 | Outcrop | - | 675 | dol-Carb | f.g., y-gy-gr, xtn, Glim (abnt, frags, vnlets, sul (common, c.g.)), fl (tr, patches throughout (rarely diss)) | OC exposure is 25 x 2.5 m | 26-Aug-11 |
| 92934 | 2011 | 92934 | PANDS | 535345 | 6313280 | Outcrop | - | 800 | dol-Carb | v.f.g. to f.g., y-gy, wthd - med og-br, suc, xtn, Glim (patches, vnlets), fl (tr, streaks, blebs), sul | OC exposure is 15x2 m | 26-Aug-11 |
| 92935 | 2011 | 92935 | PANDS | 535425 | 6313323 | Boulder | Boulder | 2500 | dol-Carb | f.g. to m.g., lt gy, wthd - dk og-br, xtn, mag (abnt, ~70%, euh), sul (common), mafics (vnlets) | boulder is 50 x 20 x 30 cm, v. dense, 0.5 cm wthd crust | 26-Aug-11 |
| 92936 | 2011 | - | West Rim | 535070 | 6312563 | Boulder | Chip | -1 | dol-Carb | v.f.g., gr, min (r, diss), fl (vnlets) | boulder is 1 x 0.5 m | 29-Aug-11 |
| 92937 | 2011 | - | West Rim | 535084 | 6312552 | Boulder | Chip | -1 | dol-Carb? | m.g., gy, wthd - br, abnt blk spots | boulder is 50 x 50 cm | 29-Aug-11 |
| 92938 | 2011 | - | West Rim | 535117 | 6312644 | Boulder | Chip | -1 | dol-Carb | m.g., gr, wthd - blk, py? (c.g., ~10%) | ~1 cm wthd crust, boulder is ~50 x 50 cm | 29-Aug-11 |
| 92939 | 2011 | - | West Rim | 535132 | 6312458 | Boulder | Chip | -1 | dol-Carb? | f.g., gr, wthd - br, fl (vnlets), sul (tr) | 0.5 cm wthd crust | 29-Aug-11 |
| 92940 | 2011 | E 1365 | West Rim | 535130 | 6312585 | Boulder | Chip | -1 | dol-Carb | f.g. to m.g., gr, wthd - blk, bio (minor), pych? (blk) | ~0.2 cm wthd crust, sub rnd boulder is ~50 x 50 cm | 30-Aug-11 |
| 92941 | 2011 | E 1365 | West Rim | 535130 | 6312585 | Boulder | Chip | -1 | dol-Carb? | c.g., dk pale ol, wthd - blk, pych? (abnt, blk), sul (tr) | ~1 cm wthd crust, boulder is ~30 x 20 cm | 30-Aug-11 |
| 92942 | 2011 | - | West Rim | 535135 | 6312595 | Boulder | Chip | -1 | dol-Carb? / Glim | f.g., gr, fl (patches), sul (tr) | Glim ratio 50:50, ang boulder is 1 x 1 m | 30-Aug-11 |
| 92943 | 2011 | - | West Rim | 535100 | 6312607 | Boulder | Chip | 1300 | dol-Carb | f.g., gr, wthd - br | ang boulder is 30 x 30 cm | 30-Aug-11 |
| 92944 | 2011 | 92944 | Beckling | 539356 | 6312920 | Outcrop | Chip | 300 | cc-Carb | f.g., gr gdmass, wthd - br, perv, Carb? (vnlets, lenses), chl?, mag | ~1 cm wthd crust, sample is 30 x 50 cm | 1-Sep-11 |
| 92945 | 2011 | 92945 | Beckling | 539360 | 6312914 | Outcrop | Chip | 450 | Carb | f.g. to m.g., gy, wthd - lt br, fl (v. small patches), mafics | sample is 30 x 30 cm | 1-Sep-11 |
| 92946 | 2011 | 92946 | Beckling | 539416 | 6312931 | Boulder | Chip | 1500 | dol-Carb | f.g., gr, wthd - og-br, fl (abnt, stringers), bio (bnds, patches, xcut qtz) | ang boulder is 20 x 20 x 30 cm | 1-Sep-11 |
| 92947 | 2011 | 92947 | Beckling | 539499 | 6312937 | Boulder | Chip | 2000 | dol-Carb | f.g., gr, wthd - lt br, sul (tr), fl | boulder found ~20 cm deep in soil | 1-Sep-11 |
| 92948 | 2011 | 92948 | Beckling | 539567 | 6312940 | Boulder | Chip | 2000 | dol-Carb | f.g., gr, wthd - br, py (rare), fl (streaks, bnds), qtz (vnlets), bio (layers) | - | 1-Sep-11 |
| 92949 | 2011 | 92949 | Beckling | 539619 | 6312917 | Boulder | Chip | 3000 | dol-Carb | f.g., gy, wthd - br, shrd?, bio (stringers), min bnds (y to gr) | - | 1-Sep-11 |
| 92950 | 2011 | 92950 | Beckling | 539616 | 6312919 | Boulder | Chip | 2000 | dol-Carb? | f.g., gr, wthd - r-br, bio (clsts, ~30%) | ~0.3 cm wthd crust | 1-Sep-11 |
| 92951 | 2011 | 92951 | Miranna | 538707 | 6311935 | Boulder | Grab | 400 | dol-Carb? | f.g., lt gy, wthd - br, ukn min (patches, gr), fsp? (r, c.g.), sul (c.g.) | SG - 3.04, XRF: up to 5% REE | 29-Aug-11 |
| 92952 | 2011 | 92952 | Miranna | 537809 | 6311425 | Boulder | Grab | 600 | dol-Carb? | f.g. to m.g. (gdmass), gr, wthd - br, ap? (abnt), pych (abnt, xtls, gy-blk, met?, euh, ~1 mm) | SG - 2.973 | 29-Aug-11 |
| 92953 | 2011 | 92953 | Beckling | 539620 | 6312819 | Boulder | Chip | 3000 | dol-Carb? | f.g., gr, wthd - br, Carb (abnt, euh), fl | boulder is ~30 x 50 cm | 1-Sep-11 |
| 92954 | 2011 | 92954 | Beckling | 539621 | 6312816 | Unknown | Chip | 3000 | dol-Carb | f.g., wthd - br, suc, slightly shrd, fl (abnt) | boulder is [?] 20 x 30 cm | 1-Sep-11 |
| 92955 | 2011 | 92955 | Beckling | 539614 | 6312770 | Unknown | Chip | 2600 | dol-Carb? | f.g., gr, fl (bnds, lenses?, ~70%) | boulder is [?] 30 x 40 cm | 1-Sep-11 |
| 92956 | 2011 | 92956 | Beckling | 539593 | 6312720 | Outcrop | Chip | 900 | Carb | f.g., gr, wthd - br, Carb (~60%), mafics (~40%, frags, bio?), mag? | chip area is 30 x 20 cm | 1-Sep-11 |
| 92957 | 2011 | 92957 | Beckling | 539549 | 6312568 | Boulder | Chip | 1000 | dol-Carb | f.g., gr (clsts?), gy (gdmass), br, fl (patches) | boulder is ~1 x 0.2 m | 1-Sep-11 |
| 92958 | 2011 | 92958 | Beckling | 539426 | 6312539 | Outcrop | Chip | 700 | bio Scht | Carb boudins? layers? | - | 1-Sep-11 |
| 92959 | 2011 | 92959 | Beckling | 539309 | 6312700 | Outcrop | Chip | 600 | - | f.g. (gdmass), y, cbnts (c.g., euh), qtz vn (xcut) | chip area is 30 x 30 cm | 1-Sep-11 |
| 92960 | 2011 | 92960 | Beckling | 539288 | 6312710 | Outcrop | Chip | 750 | Carb | f.g., gr, finely shrd?, bnded | chip area is 30 x 30 cm | 1-Sep-11 |
| 92961 | 2011 | 92961 | Beckling | 539205 | 6312887 | Boulder | Grab | 3900 | dol-Carb | f.g., gr-gy, wthd - rusty og-br, col-Carb clsts (linedate to elongate, tan) in shrd mtz (gr-gy), fl (minor, diss), bio (tr), py | - | 2-Sep-11 |
| 92962 | 2011 | 92962+104576 | Beckling | 539218 | 6312855 | Boulder | - | 7500 | Carb | f.g., y-gr, wthd - dk r-br, frags, fl (irreg chunks throughout), secondary cbnt (w-gy) on wthd rind | - | 2-Sep-11 |
| 92963 | 2011 | 92963 | Beckling | 539207 | 6312862 | Outcrop | Chip | 1900 | dol-Carb | f.g., gr-gy, wthd - br, fl (streaks throughout), py (tr) | OC is 50 x 10 m | 2-Sep-11 |
| 92964 | 2011 | 92964+104577 | Beckling | 539210 | 6312866 | Unknown | Chip | 9600 | dol-Carb | f.g., gr-gy, wthd - dk br, fl (abnt, streaks), cbnt? (y, f.g.) | extension of Beckling? | 2-Sep-11 |
| 92965 | 2011 | 4300CpsBLDR | Miranna | 538262 | 6311207 | Boulder | Chip | 4300 | dol-Carb? | f.g., gy, dol-Carb? (abnt, phenos, m.g.), bio? (abnt, platy) | - | 31-Aug-11 |
| 92966 | 2011 | 92966+104577 | Beckling | 539210 | 6312866 | Unknown | Chip | -1 | dol-Carb | fl | rock chips (ang, ~1-3 cm in size, covered in coarse br silt) collected from soil sample hole 104577 | 2-Sep-11 |
| 92967 | 2011 | OCCM11-006 | Beckling | 539224 | 6312874 | Outcrop | Chip | 1600 | dol-Carb | f.g. to m.g., pale gr-lt gy, wthd - br, fol?, bio (stringers, mm-scale), qtz (tr), no visible fl | chip area is 10 x 15 cm | 5-Sep-11 |
| 92968 | 2011 | 92968 | Beckling | 539227 | 6312857 | Outcrop | - | 3250 | dol-Carb | f.g., gr-gy, wthd - br, mass, fl (streaky, perv), py (common), dol (rare, m.g., grains) | frost heave near OC, area sampled is 15 x 15 cm | 5-Sep-11 |
| 92969 | 2011 | OCCM11-007 | Beckling | 539222 | 6312847 | Outcrop | Chip | 2600 | dol-Carb | f.g., y-gy, wthd - br, fl (streaks), py (f.g.), bio (tr to minor) | chip area is 30 x 30 cm | 5-Sep-11 |
| 92970 | 2011 | 92970 | Beckling | 539225 | 6312855 | Outcrop | Chip | 4200 | dol-Carb | f.g., gr-gy, wthd - dk br, fl (perv, streaks), py (common), no visible bio | - | 5-Sep-11 |
| 92971 | 2011 | 92971 | Beckling | 539250 | 6312823 | Boulder | - | 2800 | dol-Carb | f.g., y-gy, wthd - rusty br, fl (streaks), py (common), bio (tr to minor) | possible frost heave from bedrock | 5-Sep-11 |
| 92972 | 2011 | 92972 | Beckling | 539368 | 6312740 | Outcrop? | - | 1200 | dol-Carb | f.g., gr-gy, wthd - br, mass, fl (sparse, streaks), py (tr), bio | ~2 m drop in elevation on face of bank, unable to find solid rock | 5-Sep-11 |
| 92973 | 2011 | 92973 | Beckling | 539496 | 6312620 | Outcrop | Chip | 1850 | dol-Carb | v.f.g. to f.g., pale gr, wthd - tan to og-br, mass, fl (mod, patches, streaks), py (tr) | chip area is 20 x 30 cm | 5-Sep-11 |
| 92974 | 2011 | 92974+92975 | Beckling | 539509 | 6312602 | Outcrop | Chip | 3550 | dol-Carb | m.g. to c.g., ol-gy, wthd - rusty br, mass, fl (streaks), py (tr), bio | 3-4 mm thick wthd crust, chip area is 20 x 20 cm | 5-Sep-11 |
| 92975 | 2011 | 92974+92975 | Beckling | 539509 | 6312602 | Outcrop | Chip | 4000 | dol-Carb | m.g., lt ol-gy, wthd - rusty br, mass, fl (streaks, blebs, py (sparse), bio (f.g.)) | 3-4 mm thick wthd crust, chip area is 20 x 20 cm | 5-Sep-11 |
| 92976 | 2011 | 92976 | West Rim | 535142 | 6313624 | Outcrop | Chip | 1200 | dol-Carb | f.g., lt gr-gy, qtz (vnlets), ukn min (pk) | chip area is 30 x 30 cm | 19-Aug-11 |
| 92977 | 2011 | 92977 | West Rim | 535165 | 6313628 | Outcrop | Chip | -1 | - | f.g., br-gy, wthd - blk-br, Si rich, kfsp?, bio (layers), dol-Carb (layers), amph? (f.g., needles up to 1 cm), qtz vnlets (xcut, up to 5 cm wide), ukn min * | chip area is 30 x 40 cm, | 19-Aug-11 |
| 92978 | 2011 | 92978 | West Rim | 535147 | 6313672 | Outcrop | Chip | 500 | - | f.g., gy, fsp?, ukn min (v. coarse, r, good clvg?, twinning?), bio (bnds), sul? (v. abnt) | chip area is 30 x 30 cm | 19-Aug-11 |
| 92979 | 2011 | 92979 | West Rim | 535203 | 6313643 | Outcrop | Chip | 1500 | dol-Carb | f.g., gr, dyke?, fl (small patches) | chip area is 30 x 40 cm | 19-Aug-11 |
| 92980 | 2011 | 92980 | West Rim | 535194 | 6313632 | Outcrop | Chip | 600 | dol-Carb | f.g., gy, wthd - og-br, bio (clsts? (~10 cm), ang, layers) | chip area is 20 x 30 cm | 19-Aug-11 |
| 92981 | 2011 | 92981 | West Rim | 535214 | 6313320 | Outcrop | Chip | -1 | Carb | f.g., gr-gy, wthd - og, sed? or Carb? (abnt, clsts, ang) | chip area is 20 x 30 cm | 19-Aug-11 |
| 92982 | 2011 | 92982 | West Rim | 535216 | 6313319 | Outcrop | Chip | -1 | dol-Carb | gy, wthd - br, mass, brittle, glassy, sed? | ~0.5 cm wthd crust, chip area is 20 x 30 cm | 19-Aug-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|------------|------------------|----------------|-----------------|----------|-------------|---------|---------------|--|---|--------------|
| 92983 | 2011 | 92983 | PANDS | 535311 | 6313403 | Outcrop | Chip | 200 | dol-Carb | m.g. to c.g., lt gr-gy, bio (locly, layers, patches, f.g.) | chip area is 30 x 30 cm | 19-Aug-11 |
| 92984 | 2011 | 92984 | PANDS | 535355 | 6313438 | Outcrop | Chip | 1000 | dol-Carb | f.g., lt gr-gy to gy, mass | chip area is 30 x 30 cm | 19-Aug-11 |
| 92985 | 2011 | 92985 | PANDS | 535355 | 6313455 | Boulder | Chip | 6000 | dol-Carb | f.g., w, dol-Carb (clsts?, bio gdmass) | - | 19-Aug-11 |
| 92986 | 2011 | 92986 | West Rim | 535240 | 6312297 | Boulder | - | 2200 | dol-Carb | v.f.g., gr-pale ol (gdmass), withd - og-br, fl (few, patches, vnlets), bio (abnt, patches, Glim, ~60%), cc (itsl), sul (tr) | Glim seems to have higher CPS than Carb, boulder is ~30 x 20 x 7 cm, 4-7 mm withd crust, 1800 CPS on ground surface | 21-Aug-11 |
| 92987 | 2011 | 92987 | PANDS | 535401 | 6313211 | Boulder | - | 1700 | dol-Carb | v.f.g. to m.g., dk gr-gy, withd - dk og-br, xtn, bio? (few, patches, vnlets), sul (tr), mag (v.f.g., diss) | sub ang-ang boulder is 50 x 40 x 30 cm | 21-Aug-11 |
| 92988 | 2011 | 92988 | PANDS | 535403 | 6313212 | Boulder | - | 8000 | dol-Carb | v.f.g. to f.g., gy-gr, withd - dk br, xtn, abnt mafics (abnt, patches, parallel stringers), sul (tr) | sub ang boulder is 1.5 x 1 x 0.75 m, 1 cm withd crust | 21-Aug-11 |
| 92989 | 2011 | 92989 | PANDS | 535503 | 6313196 | Outcrop | Chip | 750 | dol-Carb | f.g. to c.g., lt y-gy, withd - lt og-br, suc, xtn, qtz (patches, lt gy, transparent), sul (tr), mafics (few, diss) | OC is ~60 x 1 m, 2-3 mm withd crust | 21-Aug-11 |
| 92990 | 2011 | 92990 | PANDS | 535502 | 6313228 | Outcrop | Chip | 3800 | dol-Carb | f.g. to c.g., med-lt gy, withd - dk br, xtn, common bio vnlets (common, vnlets with similar orientation), bio (throughout, c.g.), sul (tr) | OC is ~10 x 5 m, 1 x 0.5 m exposed, 3-7 mm withd crust | 21-Aug-11 |
| 92991 | 2011 | 92991 | Triple-D | 535812 | 6313280 | Boulder | - | 2500 | dol-Carb | f.g., med gy, withd - dk br, few cc-Carb (few, vnlets, pk, <1 cm), mag (common, xtls, euh), bio (clsts, vnlets, c.g.), sul (tr) | - | 21-Aug-11 |
| 92992 | 2011 | 92992 | Triple-D | 535897 | 6313283 | Boulder | - | 2600 | dol-Carb | v.f.g., dk gr-gy-pale ol, withd - dk og-br, fl (abnt, patches, vnlets (perv)), mafics (few, patches), few lighter late stage vns, sul (tr) | ang boulder is 45 x 30 x 25 cm, ~1 mm withd crust | 21-Aug-11 |
| 92993 | 2011 | 92993 | Triple-D | 535627 | 6313639 | Outcrop | Grab | 450 | dol-Carb | c.g., cr-y, withd - dk og-br, suc, xtn, mass, mafics (rare, patches, diss), sul (tr) | 1-2 mm withd crust, OC is ~5 x 2 m, evident frost heaving | 21-Aug-11 |
| 92994 | 2011 | 92994 | Enterprise | 539220 | 6311234 | Outcrop | Grab | 300 | Glim | v.f.g., dk gy to dk br, str fol, greasy, phl? (abnt), bio?, dol-Carb (abnt, itbd, ~2-4 mm, med gy, v.f.g.) | msmts difficult to measure | 24-Aug-11 |
| 92995 | 2011 | 92995 | Enterprise | 539319 | 6311016 | Boulder | Grab | 1000 | dol-Carb | med gy, suc, mass, vnlets (few, lt ol-gy), bio (minor, blebs), fl (tr, blebs) | sub ang boulder is 1 m x 0.3 m x 7m | 24-Aug-11 |
| 92996 | 2011 | 92996 | Enterprise | 539591 | 6311027 | Outcrop | Grab | 350 | Glim | v.f.g., blk, str fol, mass, no phenos | OC is ~60 x 2.5 m | 24-Aug-11 |
| 92997 | 2011 | 92997 | Enterprise | 539592 | 6311025 | Outcrop | Grab | 1 | dol-Carb | med-lt gy, suc, bio (layers, 1-3 mm, f.g.), py (tr) | - | 24-Aug-11 |
| 92998 | 2011 | 92998 | Enterprise | 539782 | 6311072 | Outcrop | Grab | 200 | Glim? | v.f.g., med gy (gdmass), fsp?, bio?, sul?, bio (abnt, vnlets), cc (minor, vnlets), mag (vnlets, patches, euh) | OC is 100 m x 1 m | 24-Aug-11 |
| 92999 | 2011 | 92999 | Enterprise | 539884 | 6311043 | Outcrop | Grab | 250 | Glim | f.g., dk gy, str fol, bio (abnt), dol-Carb (patches, med-lt gy), mag (minor, layers, patches) | OC ~5 m high | 24-Aug-11 |
| 93000 | 2011 | 93000 | Southeast | 539926 | 6310067 | Boulder | Chip | 1400 | dol-Carb? | v.f.g., gr-gy, withd - r-br, mass, ukn min (abnt, blk, v.f.g., in ctc with bio, dol, mag), py (tr) | sub ang boulder | 24-Aug-11 |
| 107601 | 2011 | OCMC11-014 | East Valcourt | 536016 | 6310746 | Outcrop | Chip | 240 | WR? | v.f.g., dk gr-gy, withd - lt br, mass, dol-Carb (dykes, xcut), vnlets (small, hy-therm) | Carb is recessive, chip area is 20 x 20 cm | 7-Sep-11 |
| 107602 | 2011 | OCMC11-014 | East Valcourt | 536016 | 6310746 | Outcrop | Chip | 250 | dol-Carb | f.g., gr to y-gy, withd - rusty br, mass, WR clsts, fl (minor), dol-Carb (dykes) | chip area is 20 x 20 cm | 7-Sep-11 |
| 107603 | 2011 | 107603 | East Valcourt | 535994 | 6310668 | Outcrop | Chip | 650 | dol-Carb / WR | f.g. to m.g., y-gy, withd - lt br, xtn, xenoliths?, py (tr), fl | chip area is 15 x 15 cm, OC is 20 x 6 m | 7-Sep-11 |
| 107604 | 2011 | 107604 | West Mag High | 535896 | 6310691 | Outcrop | Chip | 420 | dol-Carb | v.f.g. to m.g., y-gy to v. lt gy, withd - lt br, xtn, py (tr) | chip area is 15 x 10 cm | 7-Sep-11 |
| 107605 | 2011 | 107605 | West Mag High | 535753 | 6310603 | Outcrop | Chip | 155 | meta-Sed? | v.f.g., ol-gy, withd - gr-gy to r-p, mag, bio (pbls in chl), fsp, qtz mtz, phyl? | chip area is 15 x 15 cm, OC is ~18 x 6 m | 7-Sep-11 |
| 107606 | 2011 | 107551 | West Mag High | 535279 | 6311560 | Outcrop | Chip | 1875 | dol-Carb | f.g., lt ol-gy, withd - rusty br, mass, fl (speckles), py (tr), bio | sample is 5 x 10 cm | 5-Sep-11 |
| 107607 | 2011 | 107607 | West Mag High | 535251 | 6311774 | Boulder | - | 1600 | dol-Carb | v.f.g. to m.g., dk gy to y-gy, withd - rusty br, brc (clsts (ang-sub ang) in mtz (y-gy, v.f.g.)), bio (minor, stringers), py (tr) | sample is 10 x 10 cm | 5-Sep-11 |
| 107608 | 2011 | 107608 | Northwest | 535952 | 6312638 | Outcrop | Chip | 3900 | cc-Carb? | w, withd - tan, cc (m.g., suh), phl (phenos?, gr-blk, m.g. to c.g.), prt? py (tr) | sample is 5 x 10 cm, OC is ~2 x 15 m | 7-Sep-11 |
| 107609 | 2011 | 107609 | Northwest | 535930 | 6312872 | Outcrop? | Chip? | 1300 | dol-Carb? | dk gy, withd - rusty br, mag (grains, anh-suh, f.g. to m.g.), py (f.g., anh-suh), dol (f.g., suh, itsl) | sample is 10 x 10 cm, OC? is buried, steep | 7-Sep-11 |
| 107610 | 2011 | 107610 | Northwest | 535934 | 6312854 | Outcrop? | Chip? | 2200 | cc-Carb | f.g., pk-w, withd - lt br, speckled, phl (f.g., anh-suh), cc (f.g., v. lt gy), py (tr), fl | sample is 10 x 10 cm, OC? is 20 m from prev | 7-Sep-11 |
| 107611 | 2011 | 107611 | Northwest | 535786 | 6312313 | Outcrop | Chip | 1200 | dol-Carb | f.g. to c.g., lt y-gy, withd - rusty br, brc (Glim clsts (ang-sub ang) in dol mtz (f.g., eqgr)), ox-altn of dol-Carb (along fracs, lt br) | sample is 10 x 10 cm | 7-Sep-11 |
| 107612 | 2011 | 107612 | West Mag High | 534972 | 6312071 | Outcrop | Chip | 122 | meta-Sed | v.f.g., dk gy, withd - br-blk, mass, mag (v.f.g. to f.g.) dol (itsl), py (tr) | sample is 5 x 10 cm | 7-Sep-11 |
| 107613 | 2011 | 107613 | Miranna | 536174 | 6313697 | Boulder | - | 1800 | dol-Carb | f.g., lt gy to y-gy, withd - dk br, suh, mass, fl (speckles), ox-altn? (lt br) | sample is 5 x 10 cm, high CPS confined to small ~50 x 50 cm area, very well vegetated | 10-Sep-11 |
| 107614 | 2011 | 107614 | PANDS | 535595 | 6313363 | Outcrop? | - | 2050 | dol-Carb | f.g., y-gy, withd - rusty br, wk bnd, phl (v. minor), py (tr), mag-fl, RE-Flc? (mod, r-br) | sample is 15 x 10 cm, OC? is ~1 x 10 m | 10-Sep-11 |
| 107615 | 2011 | 107615 | PANDS | 535509 | 6313171 | Outcrop | Chip | 900 | dol-Carb | f.g., lt gy to y-gy, withd - rusty og, mass, suc, fl? (clusters, br, blk), sul? (equant), RE mins? | sample is 10 x 10 cm, OC ~2 mx10 m? | 12-Sep-11 |
| 107616 | 2011 | 107616 | West Rim | 535148 | 6312748 | Outcrop | Chip | 700 | dol-Carb | f.g., tan to lt gy, withd - rusty og, eqgr, mass, bio?, sul? (blk, itsl, <10%) | sample is 15 x 5 cm, OC possibly slumped?, well vegetated, poor exposure | 12-Sep-11 |
| 107617 | 2011 | 107617 | West Mag High | 534625 | 6312595 | Outcrop | Chip | 110 | Phyl | dk gy, withd - dk gy to dk gr-gy, str fol, phyl sheen on surface, sul (minor, f.g., diss) | sample is 20 x 15 cm, OC is ~50 x 50 m, well exposed | 12-Sep-11 |
| 107618 | 2011 | 107618 | West Mag High | 534700 | 6312834 | Outcrop | Chip | 85 | dol Marble | f.g., tan-br, withd - og-gy, wk fol, sul (pockets-clusters, po-mag? slightly magnetic, blk, met, diss, up to 1 cm) | sample is 10 x 10 cm, OC is ~10 m high, well exposed | 12-Sep-11 |
| 107619 | 2011 | 107619 | West Mag High | 534565 | 6312993 | Outcrop | Chip | 165 | bio Amph? | f.g., dk gy, withd - br, wk-mod fol, hbl-fsp, bio (diss, <15%), hard, competent | sample is 5 x 10 cm, OC is 3 x 7 m, well exposed | 13-Sep-11 |
| 107620 | 2011 | 107620 | PANDS | 535355 | 6313426 | Outcrop | Chip | 1175 | dol-Carb | f.g., pale gr to pale p, mass, fl (abnt, patches), RE-Flc? (br), mnz? (clusters, locly, r-br, slightly c.g., good xtl faces) | sample is 15 x 10 cm | 15-Sep-11 |
| 107621 | 2011 | 107621 | PANDS | 535355 | 6313408 | Outcrop | - | 5300 | dol-Carb | f.g., br-p, mass, fl-RE-Flc? (abnt, patches, br), sul (abnt) | sample is 10 x 10 cm | 15-Sep-11 |
| 107622 | 2011 | 107622 | PANDS | 535480 | 6313506 | Outcrop | Chip | 500 | WR | dk gy, albite (abnt, clsts, bio (itsl)), sul (diss), carb (dyke, xcut, cr) | sample is 15 x 15 cm | 15-Sep-11 |
| 107623 | 2011 | 107623 | West Rim | 535073 | 6313578 | Outcrop | Chip | 560 | Marble | f.g., tan-cr, mass to wk fol, cc (dominant), fsp?, sul (v.f.g., diss) | sample is 15 x 10 cm | 17-Sep-11 |
| 107624 | 2011 | 107624 | North Glim | 534676 | 6313742 | Outcrop | Chip | 190 | bio Gn | f.g., dk gy, mod fol, comp bndg, bio and fsp layers, amph (needles, locly, blk) | sample is 10 x 20 cm | 17-Sep-11 |

Appendix 4a: (continued)

| Sample | Year Collect | WPT | General Location | Easting N83Z19 | Northing N83Z19 | Source | Sample Type | Max CPS | Litho Prelim | Description | Notes | Date Collect |
|--------|--------------|--------|------------------|----------------|-----------------|---------|-------------|---------|--------------|--|---|--------------|
| 107625 | 2011 | 107625 | North Glim | 535572 | 6314253 | Boulder | - | -1 | Marble | f.g., tan-cr, mass to wk fol, cc, phl, bio (xtls, diss, up to 25%) | sample is 15 x 5 cm | 18-Sep-11 |
| 87697 | 2011 | - | Beckling | 539246 | 6312695 | Outcrop | Chip | 1000 | - | f.g., bio (~60%) with dol-Carb lenses & layers | OC is 2 x 1 m, not sent for analysis? | 18-Sep-11 |
| 92303 | 2011 | 92303 | Beckling | 539135 | 6312902 | Outcrop | Chip | 5000 | dol-Carb | f.g., lt y-gy, mass, suc, qtz (vns, infill spaces), fl (bnd, p, diss, patchy), py (tr) | CPS range 4850-5000 CPS, was apparently sent for analysis (see <i>Batch 7, Prospecting Rocks (86 samples).pdf</i>). Notation on assay cert A11-8686 reads "92303 not a sample" | 6-Aug-11 |

APPENDIX 4B: 2010 AND 2011 ROCK SAMPLE ANALYTICAL CERTIFICATES

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS |
| 83301 | < 5 | 0.35 | 0.1 | 7.05 | 1.023 | 9.86 | 37.65 | 0.04 | < 0.01 | 0.277 | 13.38 | 29.08 | 98.81 | 50 | 5 | 93 | < 20 | 4 |
| 83302 | < 5 | 2.53 | 0.21 | 6.39 | 0.832 | 3.7 | 42.01 | 0.1 | 0.09 | 0.057 | 4.29 | 34.96 | 95.18 | 19 | 3 | 49 | < 20 | 4 |
| 83303 | < 5 | 48.11 | 9.6 | 10.57 | 0.307 | 6.28 | 5.33 | 2.22 | 7.48 | 0.412 | 0.27 | 8.57 | 99.14 | 28 | 12 | 115 | 70 | 15 |
| 83304 | < 5 | 3.4 | 0.32 | 10.38 | 1.019 | 13.02 | 29.17 | 0.06 | 0.18 | 0.123 | 2.44 | 38.64 | 98.75 | 13 | 1 | 56 | < 20 | 9 |
| 83305 | < 5 | 13.38 | 3.81 | 9.11 | 0.6 | 10.67 | 25.56 | 0.22 | 2.19 | 0.683 | 4.36 | 28.88 | 99.46 | 20 | 3 | 105 | 110 | 34 |
| 83306 | < 5 | 0.23 | 0.04 | 6.37 | 0.788 | 16.05 | 31.37 | 0.01 | < 0.01 | 0.061 | 3.57 | 40.99 | 99.49 | 9 | 1 | 22 | < 20 | 5 |
| 83307 | < 5 | 48.45 | 13.64 | 8.93 | 0.16 | 3.43 | 10.26 | 2.97 | 1.41 | 2.245 | 0.21 | 8.11 | 99.82 | 17 | 2 | 174 | 30 | 37 |
| 83308 | < 5 | 42.22 | 24.06 | 7.84 | 0.088 | 1.84 | 9.15 | 2.49 | 2.75 | 3.172 | 0.53 | 4.57 | 98.7 | 32 | 1 | 276 | 50 | 45 |
| 83309 | < 5 | 43.33 | 17.44 | 14.2 | 0.164 | 5.91 | 8.76 | 2.98 | 1.19 | 2.437 | 0.19 | 2.61 | 99.2 | 25 | 1 | 233 | 60 | 55 |
| 83310 | < 5 | 42.47 | 17.8 | 9.36 | 0.147 | 5.53 | 9.89 | 4.13 | 1.02 | 1.483 | 0.15 | 7.33 | 99.31 | 19 | < 1 | 157 | 30 | 39 |
| 83311 | < 5 | 48.65 | 21.51 | 7.22 | 0.074 | 2.03 | 6.94 | 5.02 | 2.31 | 1.089 | 0.28 | 3.22 | 98.35 | 8 | 2 | 75 | 20 | 17 |
| 83312 | < 5 | 46.55 | 18.08 | 13.45 | 0.123 | 4.5 | 5.06 | 3.44 | 1.05 | 2.62 | 0.23 | 4.01 | 99.12 | 25 | 1 | 242 | 30 | 55 |
| 83313 | < 5 | 0.23 | 0.05 | 8.08 | 1.394 | 12.44 | 32.62 | 0.02 | 0.01 | 0.067 | 7.34 | 35.6 | 97.86 | 38 | 6 | 74 | < 20 | 4 |
| 83314 | < 5 | 0.1 | 0.03 | 6.4 | 1.07 | 16.71 | 29.66 | < 0.01 | < 0.01 | 0.1 | 1.1 | 42.96 | 98.15 | 43 | 1 | 55 | < 20 | 5 |
| 83315 | 6 | 6.09 | 0.05 | 41.37 | 3.303 | 5.73 | 9.34 | 0.01 | < 0.01 | 0.148 | 0.9 | 29.06 | 96.01 | 43 | 5 | 60 | 30 | 20 |
| 83316 | < 5 | 0.59 | 0.07 | 12.22 | 1.684 | 9.69 | 34.54 | 0.01 | < 0.01 | 0.123 | 3.83 | 29.81 | 92.56 | 65 | 23 | 47 | < 20 | 7 |
| 83317 | 8 | 3.62 | 0.09 | 12.61 | 1.981 | 10.93 | 29.26 | < 0.01 | 0.01 | 0.24 | 0.82 | 34.98 | 94.54 | 72 | 50 | 74 | < 20 | 7 |
| 83318 | < 5 | 56.37 | 12.11 | 11.56 | 0.112 | 2.31 | 1.35 | 5.68 | 7.68 | 0.352 | 0.17 | 2.1 | 99.79 | 17 | 13 | 76 | 50 | 8 |
| 83319 | < 5 | 33.45 | 7.81 | 9.75 | 0.149 | 14.46 | 12.07 | 0.03 | 0.04 | 0.635 | 0.05 | 21.86 | 100.3 | 24 | < 1 | 161 | 1740 | 58 |
| 83320 | < 5 | 45.46 | 16.68 | 9.97 | 0.148 | 3.83 | 10.2 | 3.83 | 0.63 | 1.832 | 0.24 | 7.31 | 100.1 | 34 | < 1 | 276 | 150 | 36 |
| 83321 | 11 | 30.45 | 8.55 | 15.05 | 0.241 | 13.29 | 12.57 | 0.3 | 0.67 | 6.427 | 0.68 | 10.97 | 99.2 | 39 | 4 | 497 | < 20 | 39 |
| 83322 | < 5 | 44.9 | 15.85 | 12.63 | 0.24 | 10.27 | 8.6 | 2.29 | 0.44 | 1.254 | 0.12 | 3.45 | 100 | 30 | < 1 | 226 | 90 | 60 |
| 83323 | < 5 | 23.74 | 5.43 | 11.59 | 0.227 | 11.52 | 20.91 | 0.51 | 2.23 | 3.025 | 0.79 | 19.24 | 99.22 | 27 | 5 | 284 | 420 | 46 |
| 83324 | < 5 | 27.99 | 9.33 | 15.11 | 0.239 | 8.38 | 13.67 | 0.22 | 1.16 | 3.729 | 0.87 | 19.26 | 99.95 | 33 | 9 | 354 | 60 | 42 |
| 83325 | 39 | 12.02 | 6.25 | 39.03 | 2.448 | 4.2 | 11.27 | 0.02 | 0.3 | 0.905 | 0.56 | 17.1 | 94.09 | 47 | 2 | 199 | 140 | 59 |
| 83326 | < 5 | 31.23 | 8.19 | 6.75 | 0.225 | 18.38 | 10.97 | 0.22 | 6.94 | 0.18 | 2.09 | 13.45 | 98.62 | 12 | 41 | 74 | 50 | 10 |
| 83327 | < 5 | 34.04 | 7.7 | 6.32 | 0.185 | 22.43 | 6.59 | 0.54 | 7.53 | 0.173 | 0.05 | 12.53 | 98.1 | 4 | 30 | 19 | 50 | 11 |
| 83328 | < 5 | 32.35 | 7.54 | 7.57 | 0.232 | 21.4 | 6.74 | 0.45 | 7 | 0.262 | 0.09 | 11.78 | 95.4 | 9 | 41 | 22 | 60 | 11 |
| 83329 | < 5 | 22.14 | 5.83 | 8.13 | 0.35 | 11.33 | 18.69 | 0.32 | 4.09 | 1.497 | 0.32 | 27.12 | 99.83 | 36 | 10 | 182 | 370 | 36 |
| 83330 | < 5 | 1.15 | 0.07 | 5.84 | 0.475 | 11 | 38.49 | 0.04 | 0.03 | 0.015 | 14.12 | 28.96 | 100.2 | 12 | 2 | 65 | 20 | 11 |
| 83331 | < 5 | 2.76 | 0.31 | 12.08 | 0.504 | 10.2 | 32.43 | 0.05 | 0.18 | 0.408 | 8.74 | 31.19 | 98.85 | 13 | < 1 | 156 | < 20 | 19 |
| 83332 | 7 | 2.64 | 0.1 | 20.64 | 2.421 | 8.9 | 26.42 | 0.02 | 0.02 | 0.351 | 1.33 | 29.29 | 92.13 | 74 | 12 | 108 | < 20 | 12 |
| 83333 | < 5 | 13.75 | 3.9 | 8.61 | 0.961 | 12.25 | 23.4 | 0.2 | 2.47 | 0.264 | 0.95 | 32.42 | 99.18 | 10 | 1 | 34 | < 20 | 12 |
| 83334 | < 5 | 44.53 | 6.51 | 7.67 | 0.199 | 10.82 | 8.48 | 6.75 | 0.74 | 0.395 | 0.44 | 13.1 | 99.63 | 23 | 15 | 152 | 60 | 15 |
| 83335 | < 5 | 38.96 | 11.42 | 10.34 | 0.225 | 8.07 | 7.87 | 2.63 | 5.05 | 2.604 | 0.88 | 11.33 | 99.37 | 25 | 2 | 108 | 50 | 53 |
| 83336 | < 5 | 6.12 | 1.68 | 6.68 | 0.827 | 16.37 | 27.19 | 0.05 | 0.74 | 0.107 | 0.82 | 39.13 | 99.71 | 27 | 1 | 42 | < 20 | 13 |
| 83337 | < 5 | 0.86 | 0.17 | 7.16 | 0.512 | 14.89 | 34.06 | 0.02 | < 0.01 | 0.009 | 0.8 | 39.98 | 98.46 | 14 | 15 | 61 | < 20 | 4 |
| 83338 | < 5 | 1.54 | 0.12 | 5.72 | 1.02 | 17.35 | 29.74 | < 0.01 | 0.04 | 0.005 | 0.8 | 43.28 | 99.63 | 26 | < 1 | 40 | < 20 | 9 |
| 83339 | < 5 | 2.23 | 0.09 | 12.98 | 1.168 | 12.01 | 28.75 | 0.03 | 0.05 | 0.068 | 1.63 | 38.28 | 97.3 | 14 | < 1 | 131 | 40 | 12 |
| 83340 | < 5 | 30.89 | 9.75 | 5.66 | 0.127 | 20.77 | 9.77 | 0.24 | 7.81 | 0.239 | 3.35 | 10.8 | 99.41 | 15 | 24 | 56 | 40 | 20 |
| 83341 | < 5 | 0.55 | 0.17 | 6.25 | 0.511 | 17.5 | 28.72 | 0.02 | 0.03 | 0.015 | 0.21 | 44.71 | 98.68 | 24 | 1 | 39 | < 20 | 2 |
| 83342 | < 5 | 6.93 | 2.05 | 7.47 | 0.319 | 10.15 | 32.96 | 0.1 | 1.41 | 0.075 | 10.92 | 26.96 | 99.33 | 27 | 2 | 103 | < 20 | 12 |
| 83343 | < 5 | 23.59 | 7 | 5.37 | 0.235 | 17.93 | 13.8 | 0.65 | 4.74 | 0.265 | 2.5 | 24 | 100.1 | 15 | 5 | 36 | 40 | 14 |
| 83344 | 15 | 4.81 | 1.37 | 9.14 | 0.364 | 12.83 | 30.26 | 0.07 | 0.79 | 0.092 | 4.8 | 34.51 | 99.05 | 32 | < 1 | 96 | < 20 | 13 |
| 83345 | < 5 | 3.97 | 0.27 | 9.51 | 0.273 | 10.21 | 35.04 | 0.05 | 0.06 | 0.173 | 14.67 | 24.49 | 98.72 | 23 | 2 | 68 | < 20 | 17 |
| 83346 | < 5 | 22.24 | 5.39 | 10.7 | 0.216 | 16.79 | 15.97 | 0.13 | 4.4 | 0.33 | 5.74 | 17.31 | 99.22 | 26 | 26 | 83 | 70 | 21 |
| 83347 | < 5 | 4.94 | 0.21 | 12.79 | 0.338 | 10.02 | 32.09 | 0.05 | 0.09 | 0.047 | 14.8 | 23.06 | 98.44 | 22 | 10 | 62 | < 20 | 17 |
| 83348 | < 5 | 25.67 | 7.14 | 13.41 | 0.212 | 15.63 | 12.39 | 0.12 | 5.93 | 1.168 | 6.17 | 10.5 | 98.35 | 30 | 44 | 169 | 50 | 32 |
| 83349 | < 5 | 70.81 | 0.03 | 0.31 | 0.045 | 0.05 | 16.53 | < 0.01 | < 0.01 | 0.002 | 0.01 | 12.79 | 100.6 | 5 | < 1 | < 5 | < 20 | < 1 |

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS |
| 83350 | 23 | 32.14 | 1.22 | 15.18 | 0.486 | 14.17 | 13.8 | 0.21 | 0.88 | 0.082 | 7.74 | 12.81 | 98.7 | 32 | 38 | 45 | < 20 | 22 |
| 83351 | < 5 | 38.15 | 8.61 | 15.19 | 0.15 | 7.73 | 9.36 | 1.3 | 2.49 | 1.041 | 0.13 | 15.4 | 99.54 | 23 | 2 | 131 | 280 | 25 |
| 83352 | < 5 | 56.49 | 11.05 | 5.15 | 0.248 | 3.7 | 5.77 | 5.91 | 1.06 | 0.391 | 0.67 | 8.86 | 99.31 | 21 | 4 | 88 | 70 | 15 |
| 83353 | < 5 | 2.32 | 0.4 | 9.83 | 0.445 | 14.84 | 27.78 | 0.03 | 0.15 | 0.045 | 1.27 | 41.32 | 98.44 | 22 | < 1 | 61 | < 20 | 8 |
| 83354 | < 5 | 3.59 | 1.13 | 1.43 | 0.073 | 1.02 | 51.1 | 0.16 | 0.85 | 0.025 | 37.28 | 2.8 | 99.45 | 10 | 10 | 35 | < 20 | 2 |
| 83355 | < 5 | 0.79 | 0.21 | 4.62 | 0.437 | 17.76 | 30.36 | 0.04 | 0.04 | 0.008 | 1.89 | 43.18 | 99.34 | 15 | < 1 | 23 | < 20 | 4 |
| 83356 | < 5 | 18.14 | 5.79 | 9.7 | 0.521 | 9.59 | 22.6 | 1.7 | 0.6 | 1.071 | 1.27 | 28.84 | 99.82 | 33 | 11 | 141 | 210 | 24 |
| 83357 | < 5 | 0.33 | 0.22 | 10.07 | 1.149 | 14.32 | 27.95 | < 0.01 | < 0.01 | 0.236 | 0.33 | 41.67 | 96.28 | 47 | 20 | 139 | < 20 | 6 |
| 83358 | < 5 | 0.66 | 0.15 | 6.26 | 0.698 | 15.6 | 31.59 | 0.01 | 0.01 | 0.055 | 3.28 | 40.28 | 98.6 | 14 | 2 | 77 | < 20 | 4 |
| 83359 | < 5 | 0.66 | 0.12 | 8.92 | 0.668 | 15.82 | 29.64 | < 0.01 | 0.06 | 0.016 | 0.34 | 43.52 | 99.77 | 14 | < 1 | 66 | 30 | 7 |
| 83360 | < 5 | 1.04 | 0.35 | 7.39 | 0.63 | 13.9 | 33.4 | 0.03 | 0.11 | 0.184 | 5.99 | 36.15 | 99.18 | 20 | 14 | 101 | < 20 | 8 |
| 83361 | < 5 | 1.58 | 0.46 | 6.56 | 0.515 | 13.17 | 34.47 | 0.1 | 0.19 | 0.289 | 8.44 | 32.47 | 98.27 | 27 | 6 | 248 | < 20 | 17 |
| 83362 | < 5 | 31.16 | 8.89 | 8.5 | 0.372 | 11.19 | 14.05 | 1.21 | 5.39 | 1.137 | 0.84 | 17.41 | 100.1 | 16 | 7 | 170 | 50 | 22 |
| 83363 | < 5 | 0.9 | 0.27 | 6.67 | 0.453 | 13.17 | 34.61 | 0.09 | 0.04 | 0.136 | 8.67 | 33.65 | 98.66 | 12 | 8 | 184 | < 20 | 12 |
| 83364 | < 5 | 51.35 | 12.52 | 8.45 | 0.167 | 6.27 | 10.3 | 2.8 | 1.03 | 0.527 | 0.83 | 5.86 | 100.1 | 33 | < 1 | 207 | 50 | 29 |
| 83365 | < 5 | 0.62 | 0.18 | 6.16 | 0.432 | 12.8 | 35.73 | 0.08 | 0.03 | 0.053 | 10.19 | 32.61 | 98.89 | 13 | 2 | 152 | < 20 | 7 |
| 83366 | 36 | 43.05 | 11.98 | 12.21 | 0.262 | 5.1 | 6.76 | 4.02 | 4.05 | 2.021 | 0.33 | 9.52 | 99.3 | 32 | 12 | 343 | 120 | 31 |
| 83367 | < 5 | 0.78 | 0.25 | 6.66 | 0.454 | 15.7 | 31.68 | 0.03 | 0.11 | 0.029 | 2.97 | 40.65 | 99.33 | 20 | 20 | 117 | < 20 | 6 |
| 83368 | < 5 | 6.99 | 2.02 | 6.88 | 0.618 | 12.74 | 31.76 | 0.05 | 0.74 | 0.135 | 7.19 | 30.58 | 99.7 | 11 | 2 | 85 | < 20 | 13 |
| 83369 | < 5 | 3.2 | 1 | 9.04 | 0.955 | 14.61 | 28.54 | 0.02 | 0.5 | 0.031 | 2.08 | 38.37 | 98.35 | 27 | < 1 | 63 | < 20 | 10 |
| 83370 | 85 | 1.09 | 0.3 | 6.84 | 0.627 | 10.88 | 37.09 | 0.03 | 0.08 | 0.129 | 13.54 | 28.81 | 99.41 | 6 | < 1 | 63 | < 20 | 10 |
| 83371 | 5 | 0.33 | 0.1 | 5.72 | 0.351 | 11.21 | 37.73 | 0.03 | 0.03 | 0.167 | 14.04 | 28.15 | 97.84 | 17 | < 1 | 157 | < 20 | 11 |
| 83372 | < 5 | 0.5 | 0.16 | 5.62 | 0.418 | 13.77 | 35.78 | 0.03 | 0.04 | 0.058 | 8.89 | 34.78 | 100 | 23 | 25 | 112 | < 20 | 6 |
| 83373 | < 5 | 0.98 | 0.22 | 5.76 | 0.432 | 13.75 | 34.77 | 0.03 | 0.03 | 0.089 | 7.78 | 35.92 | 99.76 | 28 | 4 | 149 | < 20 | 5 |
| 83374 | < 5 | 6.99 | 1.92 | 9.5 | 0.948 | 13.89 | 26.77 | 0.07 | 0.92 | 0.061 | 0.15 | 38.61 | 99.83 | 17 | 1 | 88 | 30 | 10 |
| 83375 | < 5 | 97.08 | 0.07 | 0.69 | 0.005 | 0.08 | 0.19 | 0.03 | 0.01 | 0.003 | < 0.01 | 0.37 | 98.53 | < 1 | < 1 | < 5 | 160 | < 1 |
| 87401 | < 5 | 71.24 | 0.19 | 1.99 | 0.297 | 3.17 | 7.7 | 0.01 | 0.06 | 0.648 | 1.43 | 9.83 | 96.57 | 46 | < 1 | 28 | 20 | 4 |
| 87402 | 8 | 22.19 | 3.74 | 31.36 | 1.203 | 6.44 | 8.19 | 0.04 | 1.19 | 1.279 | 0.25 | 22.48 | 98.36 | 71 | 20 | 168 | 80 | 31 |
| 87403 | 14 | 14.47 | 5.6 | 33.9 | 1.158 | 6.47 | 9.47 | 0.19 | 2.72 | 2.985 | 0.08 | 20.26 | 97.29 | 114 | 8 | 321 | 110 | 29 |
| 87404 | 11 | 42.74 | 14.16 | 20.47 | 0.435 | 4.36 | 1.21 | 0.85 | 6.06 | 4.432 | 0.04 | 3.54 | 98.29 | 131 | 149 | 348 | 100 | 44 |
| 87405 | < 5 | 62.68 | 14.84 | 3.16 | 0.051 | 1.34 | 2.33 | 3.65 | 6.63 | 0.877 | 0.14 | 3.7 | 99.37 | 6 | 5 | 38 | < 20 | 5 |
| 87406 | < 5 | 13.07 | 3.02 | 4 | 0.111 | 15.41 | 24.91 | 0.17 | 1.84 | 0.438 | 0.04 | 37.23 | 100.2 | 19 | 35 | 95 | 40 | 5 |
| 87407 | 5 | 6.46 | 0.57 | 44.99 | 2.033 | 3.87 | 8.93 | 0.03 | 0.24 | 0.025 | 0.04 | 23.54 | 90.7 | 23 | 18 | 56 | 80 | 43 |
| 87408 | < 5 | 31.92 | 12.14 | 21.96 | 0.483 | 7.5 | 5.97 | 0.5 | 5.75 | 4.029 | 0.18 | 8.02 | 98.46 | 114 | 139 | 502 | 80 | 41 |
| 87409 | < 5 | 2.65 | 0.81 | 42.65 | 2.582 | 6.09 | 10.75 | 0.03 | 0.31 | 0.037 | 0.1 | 31.84 | 97.85 | 35 | 61 | 44 | 30 | 22 |
| 87410 | 155 | 26.63 | 5.92 | 30.27 | 1.154 | 5.15 | 7.25 | 0.26 | 3.09 | 2.061 | 0.36 | 16.31 | 98.45 | 88 | 105 | 198 | 50 | 28 |
| 87411 | < 5 | 8.79 | 2.4 | 9.73 | 0.315 | 11.82 | 27.73 | 1.12 | 0.22 | 0.391 | 3.28 | 34.31 | 100.1 | 30 | < 1 | 114 | 20 | 15 |
| 87412 | < 5 | 16.26 | 3.17 | 8.63 | 0.275 | 4.55 | 33.19 | 0.14 | 0.62 | 1.989 | 1.7 | 29.82 | 100.3 | 13 | 18 | 240 | < 20 | 17 |
| 87413 | < 5 | 11 | 3.24 | 8.55 | 0.419 | 13.46 | 27.04 | 0.06 | 1.81 | 0.435 | 2.5 | 30.94 | 99.46 | 12 | 3 | 111 | < 20 | 17 |
| 87414 | 10 | 18.89 | 0.79 | 29.11 | 5.289 | 6.23 | 11.4 | 0.06 | 0.41 | 0.164 | 0.51 | 24.09 | 96.94 | 62 | 12 | 51 | 30 | 16 |
| 87415 | 11 | 42.57 | 0.08 | 10.2 | 1.904 | 5.11 | 16.41 | < 0.01 | 0.02 | 0.045 | 0.7 | 19.05 | 96.09 | 224 | 7 | 40 | 40 | 4 |
| 87416 | < 5 | 9.24 | 0.23 | 5.9 | 0.978 | 12.69 | 29.5 | 0.02 | 0.01 | 0.089 | 1.19 | 38.47 | 98.32 | 20 | 6 | 36 | < 20 | < 1 |
| 87417 | < 5 | 10.72 | 3.04 | 11.81 | 0.347 | 5.9 | 31.52 | 0.09 | 0.37 | 1.665 | 1.99 | 31.97 | 99.42 | 11 | 16 | 221 | < 20 | 20 |
| 87418 | < 5 | 46.95 | 14.27 | 11.17 | 0.245 | 10.95 | 11.2 | 1.24 | 0.45 | 0.756 | 0.08 | 3.53 | 100.8 | 34 | < 1 | 240 | 570 | 43 |
| 87419 | < 5 | 43.38 | 16.68 | 18.65 | 0.085 | 5.8 | 0.89 | 4.02 | 1.95 | 3.515 | 0.37 | 3.94 | 99.29 | 53 | 5 | 416 | 40 | 49 |
| 87420 | < 5 | 49.68 | 25.02 | 5.95 | 0.065 | 1.68 | 7.86 | 4.92 | 0.8 | 1.085 | 0.19 | 2.31 | 99.55 | 9 | < 1 | 85 | 60 | 16 |
| 87421 | < 5 | 23.25 | 6.84 | 10.04 | 0.546 | 9.37 | 18.94 | 2.33 | 2.16 | 0.621 | 3.82 | 21.82 | 99.74 | 27 | 12 | 143 | 80 | 19 |
| 87422 | < 5 | 0.97 | 0.26 | 6.16 | 0.558 | 10 | 37.51 | 0.03 | 0.09 | 0.046 | 15.88 | 26.26 | 97.76 | 6 | < 1 | 43 | < 20 | 7 |
| 87423 | < 5 | 2.02 | 0.47 | 5.5 | 0.864 | 18.55 | 28.33 | 0.02 | 0.16 | 0.021 | 0.27 | 43.27 | 99.47 | 21 | 3 | 30 | < 20 | 1 |

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS |
| 87424 | < 5 | 95.97 | 0.14 | 0.72 | 0.01 | 0.12 | 1.15 | 0.02 | < 0.01 | 0.011 | 0.03 | 1.01 | 99.19 | < 1 | < 1 | < 5 | < 20 | < 1 |
| 87425 | 16 | 8.76 | 2.68 | 7.96 | 0.796 | 13.93 | 27.4 | 0.16 | 1.15 | 0.264 | 3.78 | 30.73 | 97.6 | 10 | 5 | 157 | 20 | 7 |
| 87426 | < 5 | 58.01 | 16.3 | 2.67 | 0.056 | 1.57 | 2.94 | 4.81 | 7.24 | 1.528 | 0.2 | 4.67 | 99.99 | 12 | 2 | 91 | 40 | 36 |
| 87427 | < 5 | 17.37 | 4.93 | 9.07 | 0.31 | 12.57 | 21.79 | 0.68 | 2.58 | 0.971 | 4.25 | 25.03 | 99.56 | 26 | 51 | 139 | < 20 | 14 |
| 87428 | < 5 | 3.49 | 0.52 | 9.3 | 0.412 | 12.1 | 30.78 | 0.04 | 0.28 | 0.725 | 7.37 | 32.52 | 97.54 | 26 | < 1 | 135 | < 20 | 11 |
| 87429 | < 5 | 61.63 | 0.3 | 32.16 | 0.371 | 1.65 | 0.99 | 0.03 | 0.07 | 0.01 | 0.03 | 3.56 | 100.8 | < 1 | < 1 | 12 | < 20 | 2 |
| 87430 | < 5 | 12.89 | 1.19 | 8.12 | 0.403 | 12.13 | 26.78 | 0.19 | 0.61 | 0.152 | 2.98 | 33.38 | 98.82 | 21 | 3 | 86 | < 20 | 11 |
| 87431 | < 5 | 39.52 | 9.8 | 9.56 | 0.286 | 3.79 | 14.41 | 1.5 | 4.24 | 0.59 | 5.79 | 10.54 | 100 | 25 | < 1 | 141 | 70 | 18 |
| 87432 | < 5 | 16.86 | 2.74 | 57.29 | 0.286 | 3.67 | 4.41 | 0.72 | 1.33 | 1.064 | 2.06 | 6.99 | 97.44 | 79 | 4 | 756 | 360 | 85 |
| 87433 | < 5 | 6.42 | 0.58 | 7.68 | 0.228 | 12.07 | 31.27 | 0.1 | 0.15 | 0.042 | 9.08 | 30.72 | 98.33 | 22 | 3 | 43 | < 20 | 11 |
| 87434 | < 5 | 15.02 | 4.75 | 8.44 | 0.385 | 15.01 | 22.75 | 0.42 | 1.65 | 0.275 | 3.64 | 27.12 | 99.46 | 47 | 6 | 103 | < 20 | 18 |
| 87435 | < 5 | 23.88 | 6.86 | 9.19 | 0.291 | 16.05 | 12.18 | 0.25 | 5.25 | 0.38 | 0.18 | 20.69 | 95.21 | 30 | 5 | 88 | 80 | 5 |
| 87436 | < 5 | 26.13 | 6.54 | 4.66 | 0.149 | 11.24 | 19.02 | 3.19 | 0.52 | 0.167 | 0.3 | 28.49 | 100.4 | 26 | 16 | 86 | < 20 | 6 |
| 87437 | < 5 | 12.26 | 0.17 | 9.47 | 0.235 | 11.13 | 28.1 | 0.55 | 0.08 | 0.135 | 12.09 | 23.32 | 97.54 | 51 | 1 | 60 | < 20 | 14 |
| 87438 | < 5 | 39.42 | 13.3 | 10.76 | 0.199 | 6.47 | 7.94 | 1.82 | 5.07 | 1.516 | 0.18 | 13.6 | 100.3 | 41 | 16 | 278 | 70 | 32 |
| 87439 | 35 | 42.12 | 12.16 | 6.28 | 0.214 | 7.56 | 9.37 | 5.33 | 2.05 | 0.464 | 0.56 | 13.89 | 100 | 42 | 5 | 141 | 70 | 21 |
| 87440 | < 5 | 0.55 | 0.16 | 8.56 | 0.424 | 14.09 | 30.28 | 0.06 | 0.01 | 1.328 | 5.25 | 34.53 | 95.23 | 21 | 2 | 639 | < 20 | 66 |
| 87441 | < 5 | 0.92 | 0.21 | 11.01 | 0.759 | 9.7 | 33.66 | 0.04 | 0.05 | 0.192 | 12.34 | 23.3 | 92.17 | 10 | < 1 | 116 | < 20 | 11 |
| 87442 | < 5 | 1.81 | 0.56 | 14.36 | 0.694 | 10.64 | 29.16 | 0.12 | 0.12 | 0.335 | 5.81 | 28.8 | 92.42 | 22 | 3 | 211 | < 20 | 7 |
| 87443 | < 5 | 0.3 | 0.1 | 3.34 | 0.409 | 18.34 | 31.27 | 0.01 | 0.03 | 0.039 | 3.55 | 41.68 | 99.07 | 9 | 13 | 68 | < 20 | < 1 |
| 87444 | < 5 | 2.21 | 0.72 | 5.55 | 0.663 | 17.55 | 28.39 | 0.04 | 0.35 | 0.018 | 1.06 | 42.36 | 98.91 | 19 | 9 | 63 | < 20 | < 1 |
| 87445 | < 5 | 1.07 | 0.34 | 4.13 | 0.424 | 17.04 | 31.14 | 0.09 | 0.11 | 0.015 | 4.78 | 39.68 | 98.8 | 10 | 8 | 55 | < 20 | < 1 |
| 87446 | < 5 | 1.41 | 0.49 | 6.34 | 1.062 | 17.8 | 27.13 | 0.01 | 0.28 | 0.015 | 0.21 | 42.9 | 97.65 | 11 | < 1 | 82 | 90 | < 1 |
| 87447 | < 5 | 9.67 | 2.89 | 4.67 | 0.356 | 14.34 | 27.89 | 0.72 | 0.59 | 0.291 | 4.58 | 32.13 | 98.14 | 15 | 40 | 198 | 40 | 9 |
| 87448 | < 5 | 35.94 | 10.64 | 9.57 | 0.397 | 6.67 | 11.28 | 3.78 | 3.38 | 0.957 | 0.16 | 17.44 | 100.2 | 23 | < 1 | 136 | 500 | 45 |
| 87449 | < 5 | 25.36 | 6.14 | 13.25 | 0.326 | 7.38 | 17.55 | 3.66 | 0.31 | 3.616 | 1.01 | 19.51 | 98.12 | 20 | 4 | 338 | 30 | 31 |
| 87450 | < 5 | 35.8 | 9.38 | 5.42 | 0.414 | 7.27 | 13.77 | 4.75 | 1.15 | 0.392 | 0.25 | 20.7 | 99.29 | 24 | 1 | 91 | 60 | 16 |
| 87451 | < 5 | 14.65 | 4.17 | 3.99 | 0.109 | 14.64 | 24.01 | 1.73 | 0.2 | 1.156 | 0.07 | 35.76 | 100.5 | 16 | < 1 | 85 | 300 | 9 |
| 87452 | < 5 | 1.8 | 0.56 | 10.01 | 0.602 | 13.83 | 29.63 | 0.02 | 0.3 | 0.034 | 2.64 | 38.17 | 97.6 | 22 | < 1 | 70 | 20 | 14 |
| 87453 | < 5 | 1.47 | 0.41 | 4.99 | 0.338 | 15.7 | 32.62 | 0.06 | 0.14 | 0.045 | 6.16 | 36.17 | 98.11 | 8 | 3 | 106 | < 20 | 5 |
| 87454 | < 5 | 2.51 | 0.82 | 5.5 | 0.414 | 14.17 | 31.65 | 0.24 | 0.14 | 0.092 | 7.11 | 34.32 | 96.95 | 19 | 3 | 86 | < 20 | 5 |
| 87455 | < 5 | 9.9 | 2.86 | 5.9 | 0.257 | 16.5 | 30.49 | 0.16 | 0.35 | 0.221 | 0.68 | 28.13 | 95.46 | 22 | 6 | 54 | 160 | 26 |
| 87456 | < 5 | 30.64 | 9.31 | 9.31 | 0.382 | 9.36 | 14.52 | 3.38 | 2.46 | 0.697 | 3.94 | 15.29 | 99.29 | 52 | 16 | 122 | 100 | 46 |
| 87457 | < 5 | 0.78 | 0.1 | 1.1 | 0.148 | 1.38 | 52.31 | 0.02 | 0.02 | 0.016 | 2.04 | 40.39 | 98.3 | 9 | 4 | 24 | < 20 | < 1 |
| 87458 | < 5 | 1.38 | 0.49 | 7.8 | 0.542 | 14.72 | 30.58 | 0.03 | 0.01 | 0.027 | 2.86 | 39.41 | 97.83 | 12 | 2 | 94 | 30 | 6 |
| 87459 | < 5 | 0.66 | 0.2 | 5.22 | 0.285 | 15.42 | 32.79 | 0.02 | 0.05 | 0.077 | 6.42 | 37.34 | 98.48 | 11 | 10 | 94 | < 20 | 4 |
| 87460 | < 5 | 1.85 | 0.16 | 10.54 | 0.41 | 3.77 | 42.43 | 0.08 | 0.03 | 0.073 | 6.7 | 30.22 | 96.27 | 17 | 3 | 104 | < 20 | 8 |
| 87461 | < 5 | 1.92 | 0.16 | 10.12 | 0.709 | 8.56 | 34.22 | 0.16 | 0.03 | 0.086 | 11.18 | 27.41 | 94.54 | 23 | 15 | 103 | < 20 | 5 |
| 87462 | < 5 | 4.03 | 1.11 | 10.26 | 0.969 | 13.41 | 28.23 | 0.03 | 0.48 | 0.062 | 2.53 | 37.57 | 98.7 | 11 | < 1 | 51 | 20 | 10 |
| 87463 | < 5 | 0.94 | 0.14 | 7.19 | 0.69 | 14.23 | 31.83 | 0.03 | 0.04 | 0.019 | 5.38 | 38.26 | 98.74 | 7 | < 1 | 32 | < 20 | 2 |
| 87464 | < 5 | 2.24 | 0.64 | 13.54 | 0.878 | 9.78 | 32.45 | 0.09 | 0.29 | 0.025 | 11.77 | 26.32 | 98.03 | 23 | < 1 | 38 | < 20 | 19 |
| 87465 | < 5 | 1.18 | 0.32 | 4.93 | 0.393 | 10.06 | 36.97 | 0.1 | 0.11 | 0.036 | 13.5 | 26.37 | 93.97 | 18 | < 1 | 83 | < 20 | 1 |
| 87466 | 6 | 2.12 | 0.34 | 20.41 | 1.37 | 11.01 | 24.18 | < 0.01 | 0.18 | 0.104 | 1.86 | 36.33 | 97.9 | 21 | 2 | 94 | < 20 | 19 |
| 87467 | < 5 | 0.48 | 0.15 | 3.4 | 0.371 | 2.42 | 49.62 | 0.01 | 0.03 | 0.057 | 0.84 | 40.34 | 97.73 | 6 | 2 | 81 | < 20 | < 1 |
| 87468 | < 5 | 2.13 | 0.15 | 10.59 | 0.275 | 2.93 | 43.68 | 0.1 | 0.06 | 0.032 | 14.34 | 22.44 | 96.73 | 5 | < 1 | 60 | < 20 | 3 |
| 87469 | < 5 | 8.87 | 2.65 | 5.87 | 0.48 | 15.4 | 28.34 | 0.11 | 0.74 | 0.116 | 7.38 | 29.05 | 99 | 4 | 23 | 39 | 20 | 9 |
| 87470 | < 5 | 0.76 | 0.21 | 6.44 | 0.561 | 16.96 | 29.56 | 0.01 | 0.07 | 0.024 | 1.75 | 42.31 | 98.67 | 8 | 11 | 41 | < 20 | 3 |
| 87471 | 9 | 16.23 | 4.71 | 8.01 | 0.564 | 10.6 | 23.02 | 0.12 | 3.7 | 0.141 | 2.64 | 28.85 | 98.6 | 11 | < 1 | 55 | 50 | 15 |
| 87472 | 12 | 10.29 | 0.97 | 28.18 | 0.237 | 7.69 | 22.09 | 0.08 | 0.7 | 0.18 | 15.29 | 12.15 | 97.86 | 23 | 4 | 164 | 20 | 49 |

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co |
|------------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS |
| 87473 | 22 | 10.1 | 2.12 | 11.45 | 0.857 | 12.29 | 24 | 0.47 | 0.39 | 0.556 | 0.38 | 35.38 | 97.98 | 38 | 30 | 253 | 240 | 21 |
| 87474 | < 5 | 47.5 | 13.69 | 10.23 | 0.272 | 3.64 | 4.88 | 7.12 | 1.15 | 3.815 | 0.29 | 7.8 | 100.4 | 28 | < 1 | 156 | 80 | 32 |
| 87475 | < 5 | 28.73 | 6 | 13.23 | 0.42 | 12.76 | 10.78 | 1.42 | 3.06 | 1.4 | 1.21 | 19.67 | 98.68 | 42 | 15 | 190 | 760 | 61 |
| 87476 | < 5 | 0.78 | 0.27 | 6.98 | 0.523 | 15.11 | 31.62 | 0.03 | 0.07 | 0.065 | 4.67 | 38.77 | 98.89 | 8 | 2 | 105 | < 20 | 1 |
| 87477 | < 5 | 0.66 | 0.19 | 5.99 | 0.452 | 14.62 | 33.33 | 0.02 | 0.05 | 0.024 | 6.93 | 36.98 | 99.24 | 15 | 5 | 69 | < 20 | 1 |
| 87478 | < 5 | 0.4 | 0.13 | 6.99 | 0.501 | 15.62 | 31.09 | 0.02 | 0.02 | 0.05 | 3.41 | 40.19 | 98.42 | 13 | 6 | 122 | < 20 | 6 |
| 87479 | < 5 | 0.43 | 0.13 | 5.76 | 0.403 | 13.77 | 34.27 | 0.02 | 0.04 | 0.101 | 5.73 | 37.55 | 98.2 | 13 | 20 | 109 | < 20 | 5 |
| 87480 | < 5 | 0.43 | 0.12 | 6.59 | 0.458 | 14.46 | 33.11 | 0.02 | 0.04 | 0.058 | 5.95 | 37.19 | 98.43 | 19 | 8 | 87 | < 20 | 6 |
| 87481 | 7 | 54.16 | 10.62 | 9.3 | 0.23 | 6.06 | 2.95 | 7.93 | 1.2 | 0.552 | 0.09 | 5.15 | 98.25 | 31 | 19 | 131 | 70 | 13 |
| 87482 | 8 | 0.34 | 0.08 | 3.03 | 0.413 | 19.21 | 31.04 | < 0.01 | < 0.01 | 0.015 | 0.63 | 45.15 | 99.92 | 7 | 29 | 53 | < 20 | < 1 |
| 87483 | 10 | 2.59 | 0.75 | 7.15 | 0.449 | 11.23 | 33.36 | 0.1 | 0.36 | 0.395 | 9.96 | 28.44 | 94.78 | 27 | 3 | 302 | < 20 | 19 |
| 87484 | < 5 | 0.16 | 0.04 | 5.78 | 0.476 | 14.81 | 33.62 | < 0.01 | < 0.01 | 0.053 | 5.99 | 38.43 | 99.36 | 22 | 7 | 83 | < 20 | < 1 |
| 87485 | < 5 | 5.3 | 1.76 | 7.52 | 0.438 | 12.92 | 29.56 | 0.41 | 0.56 | 0.436 | 6 | 31.11 | 96.02 | 54 | 5 | 203 | < 20 | 16 |
| 87486 | 17 | 1 | 0.28 | 5.98 | 0.454 | 15.03 | 32.68 | 0.03 | 0.07 | 0.263 | 6.37 | 36.23 | 98.38 | 19 | 4 | 198 | < 20 | 15 |
| 87487 | 20 | 98.77 | 0.12 | 0.66 | 0.007 | 0.15 | 0.38 | 0.02 | < 0.01 | 0.007 | 0.05 | 0.41 | 100.6 | < 1 | < 1 | < 5 | < 20 | < 1 |
| 87488 | 12 | 7.88 | 2.14 | 10.27 | 0.782 | 12.76 | 28.24 | 0.15 | 0.62 | 0.283 | 5.7 | 28.22 | 97.04 | 15 | 3 | 257 | < 20 | 7 |
| 87489 | 9 | 0.86 | 0.09 | 9.74 | 1.329 | 13.74 | 28.47 | 0.01 | < 0.01 | 0.186 | 2.54 | 39.77 | 96.74 | 88 | 7 | 77 | < 20 | 5 |
| 87490 | 21 | 1.63 | 0.06 | 9.67 | 1.998 | 13.68 | 28.43 | 0.01 | < 0.01 | 0.085 | 0.22 | 38.6 | 94.4 | 36 | 22 | 59 | < 20 | 3 |
| 87491 | 408 | 0.99 | 0.05 | 17.55 | 2.256 | 12.21 | 25.82 | < 0.01 | < 0.01 | 0.203 | 0.32 | 35.76 | 95.16 | 37 | 15 | 93 | < 20 | 8 |
| 87492 | < 5 | 0.82 | 0.07 | 2.44 | 0.208 | 2.03 | 50.26 | 0.01 | < 0.01 | 0.037 | 5.2 | 36.71 | 97.8 | 11 | 2 | 32 | < 20 | < 1 |
| 87493 | < 5 | 2.3 | 0.28 | 7.64 | 0.542 | 10.59 | 35.37 | 0.03 | 0.05 | 0.158 | 5.66 | 35.38 | 97.98 | 24 | 58 | 86 | < 20 | 3 |
| 87494 | 7 | 0.83 | 0.04 | 6.45 | 1.157 | 15.08 | 31.52 | 0.02 | 0.03 | 0.084 | 0.95 | 39.01 | 95.18 | 56 | 18 | 64 | < 20 | 4 |
| 87495 | 8 | 1.83 | 0.2 | 16.32 | 2.22 | 11.28 | 26.43 | 0.03 | 0.15 | 0.247 | 1.36 | 34.75 | 94.82 | 114 | 50 | 126 | < 20 | 11 |
| 87496 | < 5 | 0.71 | 0.07 | 4.55 | 0.577 | 17.27 | 31.83 | 0.03 | 0.04 | 0.014 | 3.36 | 41.29 | 99.74 | 9 | 13 | 12 | < 20 | 2 |
| 87497 | < 5 | 0.5 | 0.11 | 3.14 | 0.433 | 4.24 | 47.55 | 0.05 | 0.09 | 0.037 | 5.93 | 36.1 | 98.18 | 6 | < 1 | 25 | < 20 | 2 |
| 87498 | 33 | 5.86 | 0.18 | 5 | 0.723 | 15.42 | 29.94 | 0.02 | 0.11 | 0.102 | 3.95 | 37.83 | 99.13 | 15 | < 1 | 58 | < 20 | 1 |
| 87499 | < 5 | 1.3 | 0.43 | 6.82 | 0.574 | 11.71 | 34.76 | 0.05 | 0.36 | 0.138 | 10.23 | 31.54 | 97.91 | 29 | 1 | 114 | < 20 | 4 |
| 87500 | < 5 | 6.77 | 0.29 | 3.85 | 0.376 | 3.62 | 45.16 | 0.03 | 0.26 | 0.261 | 4.83 | 34.05 | 99.5 | 7 | 19 | 147 | < 20 | < 1 |
| 87601 | < 5 | 16.64 | 3.23 | 5.8 | 0.382 | 12.46 | 25.11 | 0.62 | 2.03 | 0.278 | 1.71 | 31.46 | 99.71 | 24 | 37 | 88 | 40 | 6 |
| 87602 | < 5 | 22.22 | 6.13 | 7.32 | 0.213 | 18.74 | 15.82 | 0.04 | 5.12 | 0.287 | 1.71 | 22.48 | 100.1 | 20 | 21 | 98 | 70 | 19 |
| 87603 | < 5 | 4.3 | 1.2 | 2.14 | 0.118 | 2.37 | 47.14 | 0.14 | 0.95 | 0.05 | 33.23 | 6.66 | 98.29 | 8 | < 1 | 42 | < 20 | < 1 |
| 87604 | < 5 | 17.72 | 5.05 | 6.43 | 0.49 | 15.18 | 19.81 | 0.09 | 4.45 | 0.319 | 0.22 | 30.1 | 99.86 | 18 | 4 | 88 | < 20 | 10 |
| 87605 | < 5 | 42.7 | 8.56 | 8.16 | 0.329 | 9.35 | 8.22 | 0.6 | 7.82 | 0.44 | 0.22 | 13.34 | 99.74 | 46 | 57 | 157 | 60 | 13 |
| 87606 | < 5 | 69.27 | 16.22 | 3.14 | 0.033 | 0.9 | 4.56 | 4.83 | 0.51 | 0.188 | 0.12 | 0.48 | 100.3 | < 1 | < 1 | 50 | < 20 | 5 |
| 87607 | < 5 | 21.61 | 6.32 | 7.19 | 0.4 | 9.81 | 20.12 | 0.82 | 4.11 | 0.331 | 0.88 | 27.76 | 99.35 | 44 | < 1 | 153 | 100 | 17 |
| 87608 | 7 | 35.45 | 10.19 | 17.84 | 0.259 | 4.07 | 18.63 | 0.87 | 0.15 | 4.158 | 1 | 7.81 | 100.4 | 28 | 7 | 235 | 190 | 68 |
| 87609 | < 5 | 8.65 | 0.93 | 2.56 | 0.375 | 1.93 | 46.24 | < 0.01 | 0.31 | 0.22 | 3.29 | 34.85 | 99.37 | 16 | 20 | 54 | < 20 | 2 |
| 87610 | < 5 | 42.46 | 18.82 | 12.01 | 0.131 | 3.02 | 9.55 | 3.98 | 1.22 | 2.629 | 0.24 | 6.62 | 100.7 | 26 | < 1 | 224 | 60 | 57 |
| 87611 | < 5 | 64.1 | 16.11 | 3.83 | 0.042 | 1.88 | 2 | 3.35 | 4.16 | 0.348 | 0.13 | 1.96 | 97.91 | 9 | < 1 | 63 | 120 | 10 |
| 87612 | < 5 | 22.34 | 0.24 | 8.26 | 1.265 | 10.96 | 22.43 | 0.04 | 0.1 | 0.203 | 0.86 | 29.36 | 96.04 | 66 | 18 | 86 | 40 | 4 |
| 87613 | < 5 | 23.39 | 3.66 | 14.87 | 0.883 | 11.5 | 15.37 | 0.65 | 1.24 | 1.041 | 0.16 | 25.67 | 98.45 | 38 | 6 | 111 | 740 | 57 |
| 87614 | 6 | 0.9 | 0.16 | 8.82 | 1.22 | 15.26 | 26.83 | 0.02 | 0.09 | 0.038 | 0.9 | 41.29 | 95.52 | 51 | 6 | 28 | < 20 | 4 |
| 87615 | 20 | 30.48 | 0.31 | 14.03 | 4.546 | 8.55 | 13.55 | < 0.01 | 0.21 | 0.069 | 0.09 | 26.2 | 98.05 | 633 | 8 | 30 | < 20 | 1 |
| 87616 | < 5 | 33.95 | 5.76 | 9.01 | 0.447 | 5.55 | 19.15 | 0.41 | 1.44 | 1.614 | 0.99 | 19.9 | 98.23 | 42 | 11 | 202 | 140 | 27 |
| 87617 | < 5 | 3.76 | 0.29 | 10.7 | 1.225 | 11.81 | 29.2 | 0.02 | 0.08 | 0.558 | 0.44 | 36.94 | 95.02 | 49 | 1 | 95 | < 20 | 7 |
| 87618 | < 5 | 16.45 | 0.09 | 7.77 | 1.355 | 11.77 | 24.32 | 0.01 | 0.04 | 0.224 | 0.4 | 34.15 | 96.58 | 64 | 7 | 50 | 30 | 7 |
| 87619 | 5 | 0.63 | 0.05 | 6.4 | 1.121 | 16.27 | 30.83 | 0.02 | 0.02 | 0.03 | 0.49 | 42.03 | 97.9 | 38 | 6 | 50 | < 20 | 1 |
| 87620 | 7 | 5.89 | 0.07 | 12.79 | 1.426 | 10.16 | 30.03 | 0.07 | 0.05 | 0.201 | 0.92 | 29.74 | 91.34 | 61 | 17 | 70 | < 20 | 6 |
| 87621 | < 5 | 2.79 | 0.04 | 21.83 | 2.667 | 10.28 | 22.49 | 0.02 | 0.02 | 0.124 | 0.82 | 33.42 | 94.49 | 61 | 31 | 60 | < 20 | 7 |

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 Report Date: 9/24/2010

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co |
|------------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS |
| 87622 | < 5 | 98.85 | 0.04 | 0.57 | 0.007 | 0.06 | 0.14 | 0.02 | < 0.01 | 0.002 | < 0.01 | 0.26 | 99.97 | < 1 | < 1 | < 5 | < 20 | < 1 |
| 87623 | < 5 | 45.04 | 15.02 | 12.61 | 0.185 | 5.35 | 12.84 | 2.87 | 0.07 | 2.594 | 0.34 | 2.67 | 99.59 | 28 | 1 | 330 | < 20 | 42 |
| 87624 | < 5 | 54.12 | 16.43 | 6.08 | 0.106 | 6.44 | 8.65 | 4.75 | 0.77 | 0.926 | 0.16 | 2.45 | 100.9 | 34 | < 1 | 168 | 520 | 29 |
| 87625 | < 5 | 17.68 | 7.51 | 8.29 | 0.425 | 3.02 | 30.66 | 2.17 | 0.46 | 3.545 | 0.6 | 25.4 | 99.75 | 8 | < 1 | 96 | < 20 | 8 |
| 87626 | 5 | 21.61 | 5.5 | 22.34 | 1.784 | 2.89 | 14.03 | 0.8 | 0.83 | 1.066 | 8.97 | 15.89 | 95.7 | 32 | 8 | 572 | 60 | 35 |
| 87627 | < 5 | 1.11 | 0.21 | 5.91 | 0.256 | 2.4 | 47.97 | 0.05 | 0.13 | 0.031 | 6.96 | 32.69 | 97.71 | 20 | < 1 | 66 | < 20 | < 1 |
| 87628 | < 5 | 7.2 | 2.11 | 5.23 | 0.444 | 14.21 | 29.63 | 0.05 | 1.87 | 0.878 | 9.5 | 26.13 | 97.25 | 13 | 7 | 331 | 70 | 15 |

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| Analyte Symbol | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi |
|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS |
| 83301 | 30 | 10 | 140 | 18 | 5 | 18 | <2 | 3130 | 854 | 164 | <2 | 1 | <0.2 | 12 | 0.8 | <0.5 | 116 | 2.6 |
| 83302 | <20 | 40 | 90 | 7 | 2 | 9 | <2 | 3851 | 152 | 161 | 5 | 0.6 | <0.2 | 3 | <0.5 | <0.5 | 3669 | 0.6 |
| 83303 | 40 | 30 | 140 | 15 | 4 | <5 | 115 | 403 | 23 | 105 | 10 | 0.6 | <0.2 | 11 | <0.5 | 2 | 331 | <0.4 |
| 83304 | <20 | 10 | 210 | 6 | 1 | 5 | 3 | 2838 | 91 | 29 | 2 | <0.5 | <0.2 | 1 | <0.5 | <0.5 | 84 | <0.4 |
| 83305 | 60 | 40 | 220 | 12 | 1 | 8 | 24 | 1510 | 186 | 61 | 17 | <0.5 | <0.2 | 1 | <0.5 | <0.5 | 208 | <0.4 |
| 83306 | <20 | 10 | 70 | 3 | <1 | <5 | <2 | 2876 | 138 | 13 | 7 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | 52 | <0.4 |
| 83307 | 60 | <10 | 30 | 15 | 1 | <5 | 34 | 317 | 15 | 174 | <2 | 1 | <0.2 | 2 | <0.5 | 0.5 | 609 | <0.4 |
| 83308 | 110 | <10 | <30 | 25 | 2 | <5 | 37 | 643 | 35 | 219 | 2 | 1.2 | <0.2 | 3 | 0.6 | <0.5 | 1171 | <0.4 |
| 83309 | 90 | <10 | 70 | 19 | 2 | <5 | 26 | 263 | 19 | 180 | <2 | 1.1 | <0.2 | 2 | 1.5 | 0.5 | 299 | <0.4 |
| 83310 | 60 | 10 | 50 | 16 | 1 | <5 | 22 | 276 | 16 | 113 | <2 | 0.6 | <0.2 | 1 | <0.5 | 1.2 | 376 | <0.4 |
| 83311 | 30 | 10 | 70 | 19 | <1 | <5 | 44 | 372 | 17 | 156 | <2 | 1 | <0.2 | 2 | <0.5 | 0.7 | 864 | <0.4 |
| 83312 | 70 | <10 | 60 | 19 | 1 | <5 | 27 | 265 | 17 | 194 | <2 | 1 | <0.2 | 2 | <0.5 | <0.5 | 345 | <0.4 |
| 83313 | <20 | <10 | 190 | 34 | 8 | 25 | <2 | 2910 | 768 | 62 | <2 | <0.5 | <0.2 | 3 | 0.6 | <0.5 | 200 | 1.2 |
| 83314 | <20 | 10 | 190 | 16 | 4 | 19 | <2 | 2792 | 209 | 19 | 19 | <0.5 | <0.2 | 5 | 1 | <0.5 | 90 | 1.2 |
| 83315 | <20 | <10 | 1390 | 11 | 5 | 17 | <2 | 637 | 691 | 20 | 4 | <0.5 | 0.6 | 35 | <0.5 | <0.5 | 45 | 7.9 |
| 83316 | <20 | 10 | 1190 | 36 | 8 | 28 | <2 | 3085 | 540 | 37 | 6 | <0.5 | 0.2 | 15 | 0.8 | <0.5 | 174 | 4.1 |
| 83317 | <20 | <10 | 1550 | 31 | 7 | 22 | <2 | 2010 | 646 | 43 | 8 | <0.5 | <0.2 | 34 | 0.6 | <0.5 | 363 | 4.9 |
| 83318 | 20 | 30 | 60 | 16 | 6 | <5 | 74 | 103 | 8 | 190 | 3 | 1 | <0.2 | 7 | 2 | 0.8 | 263 | <0.4 |
| 83319 | 580 | <10 | 80 | 9 | 1 | <5 | <2 | 160 | 8 | 40 | <2 | 0.7 | <0.2 | <1 | <0.5 | <0.5 | 28 | <0.4 |
| 83320 | 70 | 20 | 100 | 20 | 1 | <5 | 20 | 175 | 32 | 155 | <2 | 0.9 | <0.2 | 2 | <0.5 | <0.5 | 228 | <0.4 |
| 83321 | 100 | <10 | 50 | 19 | 3 | 6 | 35 | 197 | 27 | 621 | <2 | 3.4 | <0.2 | 5 | 0.7 | 1 | 879 | <0.4 |
| 83322 | 120 | 10 | 120 | 14 | 2 | <5 | 14 | 255 | 15 | 69 | <2 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | 415 | <0.4 |
| 83323 | 220 | 130 | 50 | 12 | 1 | <5 | 134 | 1606 | 25 | 248 | <2 | 1.4 | <0.2 | 2 | <0.5 | 6.5 | 2600 | <0.4 |
| 83324 | 80 | 200 | 110 | 16 | 2 | <5 | 39 | 1018 | 37 | 470 | <2 | 2.5 | <0.2 | 3 | 0.7 | 3.2 | 1657 | <0.4 |
| 83325 | 90 | 370 | 1280 | 18 | 6 | 11 | 8 | 305 | 290 | 102 | 210 | 0.7 | 0.7 | 3 | 0.6 | 0.6 | 212 | 4 |
| 83326 | 20 | <10 | 170 | 26 | 2 | 7 | 182 | 1064 | 44 | 287 | 3 | 1.6 | <0.2 | 6 | 3.8 | 3.7 | 1620 | <0.4 |
| 83327 | 30 | <10 | 120 | 61 | 3 | <5 | 223 | 899 | 2 | 143 | <2 | 1 | <0.2 | 13 | 6.1 | 5.9 | 421 | <0.4 |
| 83328 | 30 | <10 | 140 | 43 | 3 | 9 | 212 | 1070 | 5 | 1035 | 3 | | <0.2 | 24 | 5.1 | 6.5 | 993 | 0.7 |
| 83329 | 250 | 30 | 350 | 12 | <1 | 17 | 55 | 1349 | 39 | 39 | 97 | <0.5 | <0.2 | 18 | 1.1 | 6.4 | 744 | 1 |
| 83330 | 20 | 20 | 80 | 7 | 2 | 10 | <2 | 2466 | 386 | 31 | 2 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | 42 | <0.4 |
| 83331 | 50 | 10 | 230 | 7 | 2 | 12 | <2 | 2490 | 292 | 48 | 3 | <0.5 | <0.2 | 3 | 0.5 | <0.5 | 109 | <0.4 |
| 83332 | <20 | <10 | 2960 | 27 | 6 | 21 | <2 | 1810 | 276 | 50 | 6 | <0.5 | 0.3 | 34 | 0.7 | <0.5 | 255 | 10.1 |
| 83333 | 20 | 20 | 100 | 8 | <1 | 6 | 22 | 2276 | 35 | 50 | 6 | <0.5 | <0.2 | 1 | 0.6 | <0.5 | 111 | <0.4 |
| 83334 | 40 | <10 | 110 | 11 | 3 | 6 | 4 | 583 | 21 | 162 | 2 | 0.9 | <0.2 | 5 | 5.4 | <0.5 | 42 | 0.5 |
| 83335 | 120 | 200 | 190 | 15 | 2 | <5 | 67 | 413 | 82 | 154 | <2 | 1.3 | <0.2 | 2 | 1.1 | 1.8 | 336 | <0.4 |
| 83336 | 30 | 10 | 110 | 8 | 2 | 11 | 8 | 1185 | 52 | 25 | 2 | <0.5 | <0.2 | 2 | 3.5 | <0.5 | 334 | 0.4 |
| 83337 | <20 | 10 | 180 | 3 | <1 | 6 | <2 | 1544 | 41 | 31 | 4 | <0.5 | <0.2 | <1 | 0.5 | <0.5 | 84 | <0.4 |
| 83338 | 30 | 30 | 90 | 10 | 2 | 10 | <2 | 1030 | 109 | 17 | 16 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | 98 | 0.6 |
| 83339 | 20 | 10 | 160 | 7 | 2 | 16 | <2 | 2055 | 128 | 49 | 11 | <0.5 | <0.2 | 2 | 0.6 | <0.5 | 53 | 0.7 |
| 83340 | <20 | <10 | 150 | 22 | 2 | 6 | 179 | 756 | 40 | 131 | <2 | 0.8 | <0.2 | 5 | 0.6 | 5.6 | 1191 | <0.4 |
| 83341 | <20 | 10 | 150 | 3 | <1 | <5 | <2 | 1081 | 48 | 34 | <2 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | 49 | <0.4 |
| 83342 | 30 | 10 | 120 | 8 | 1 | 10 | 9 | 1640 | 184 | 156 | 2 | 0.9 | <0.2 | 4 | 0.7 | <0.5 | 275 | <0.4 |
| 83343 | 30 | 10 | 90 | 10 | 1 | <5 | 86 | 1034 | 48 | 144 | <2 | <0.5 | <0.2 | 2 | <0.5 | 3.3 | 1402 | <0.4 |
| 83344 | 20 | 20 | 100 | 5 | <1 | 11 | 6 | 1228 | 115 | 186 | 2 | 1 | <0.2 | 3 | 0.8 | <0.5 | 152 | <0.4 |
| 83345 | 30 | 20 | 80 | 5 | <1 | 6 | <2 | 2647 | 109 | 312 | <2 | 1.8 | <0.2 | 8 | 0.8 | <0.5 | 129 | <0.4 |
| 83346 | <20 | <10 | 300 | 18 | 3 | 5 | 114 | 1330 | 49 | 465 | <2 | 2.2 | <0.2 | 3 | 0.7 | 3.7 | 1395 | <0.4 |
| 83347 | <20 | 20 | 140 | 5 | <1 | 6 | 2 | 2811 | 89 | 430 | <2 | 1.8 | <0.2 | 9 | 0.6 | <0.5 | 216 | <0.4 |
| 83348 | 20 | <10 | 310 | 26 | 4 | <5 | 160 | 1097 | 49 | 103 | <2 | 0.6 | <0.2 | 7 | 0.7 | 6.1 | 1900 | <0.4 |
| 83349 | <20 | 10 | <30 | <1 | <1 | <5 | <2 | | | | <2 | <0.5 | <0.2 | <1 | <0.5 | <0.5 | <3 | <0.4 |

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| Analyte Symbol | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi |
|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS |
| 83350 | < 20 | 10 | 230 | 9 | 3 | < 5 | 19 | 1231 | 43 | 562 | < 2 | 2.2 | < 0.2 | 3 | 1.4 | < 0.5 | 207 | < 0.4 |
| 83351 | 120 | < 10 | 180 | 13 | 1 | < 5 | 63 | 265 | 22 | 88 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | 2 | 168 | < 0.4 |
| 83352 | 30 | 30 | 50 | 15 | 2 | < 5 | 7 | 240 | 34 | 148 | < 2 | 0.8 | < 0.2 | 5 | 0.6 | < 0.5 | 340 | < 0.4 |
| 83353 | < 20 | 230 | 240 | 2 | < 1 | < 5 | < 2 | 840 | 63 | 76 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 59 | < 0.4 |
| 83354 | 20 | 30 | 40 | 8 | 2 | 12 | 4 | 4039 | 222 | 138 | < 2 | 0.7 | < 0.2 | < 1 | < 0.5 | < 0.5 | 376 | < 0.4 |
| 83355 | 20 | 20 | 50 | 2 | < 1 | < 5 | < 2 | 2291 | 33 | 15 | 8 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 44 | < 0.4 |
| 83356 | 100 | 20 | 230 | 10 | 1 | < 5 | 17 | 1070 | 84 | 160 | 3 | 1 | < 0.2 | 6 | < 0.5 | 0.7 | 1236 | 0.7 |
| 83357 | < 20 | 20 | 530 | 18 | 4 | 15 | < 2 | 2383 | 521 | 90 | < 2 | 0.7 | < 0.2 | 12 | < 0.5 | < 0.5 | 235 | 3.2 |
| 83358 | 20 | 20 | 210 | 6 | 1 | 7 | < 2 | 1692 | 139 | 104 | < 2 | 0.6 | < 0.2 | 4 | 0.5 | < 0.5 | 151 | 0.8 |
| 83359 | 20 | 20 | 370 | 3 | < 1 | 5 | < 2 | 1306 | 33 | 32 | 18 | < 0.5 | < 0.2 | 1 | 0.7 | < 0.5 | 76 | 8.1 |
| 83360 | 20 | 40 | 480 | 5 | 1 | 11 | < 2 | 1623 | 172 | 194 | < 2 | 1.2 | < 0.2 | 4 | 0.7 | < 0.5 | 191 | < 0.4 |
| 83361 | 30 | 20 | 150 | 6 | 1 | 12 | 2 | 1354 | 116 | 212 | 4 | 1.2 | < 0.2 | 6 | 0.8 | < 0.5 | 171 | < 0.4 |
| 83362 | 30 | < 10 | 330 | 14 | < 1 | < 5 | 94 | 959 | 30 | 107 | 31 | 0.8 | < 0.2 | 10 | 0.8 | 1.1 | 442 | 2 |
| 83363 | < 20 | 30 | 110 | 5 | 1 | 9 | < 2 | 1132 | 105 | 122 | < 2 | 0.7 | < 0.2 | 3 | 1 | < 0.5 | 76 | < 0.4 |
| 83364 | 50 | 100 | 80 | 15 | 2 | < 5 | 38 | 364 | 26 | 121 | 2 | 0.7 | < 0.2 | 2 | 1.1 | 1.3 | 107 | < 0.4 |
| 83365 | < 20 | 20 | 100 | 5 | 1 | 8 | < 2 | 1243 | 140 | 297 | 2 | 1.6 | < 0.2 | 3 | 0.8 | < 0.5 | 50 | < 0.4 |
| 83366 | 50 | < 10 | 140 | 18 | 2 | < 5 | 73 | 492 | 19 | 121 | 2 | 0.6 | < 0.2 | 6 | 0.8 | 1.5 | 869 | < 0.4 |
| 83367 | < 20 | 40 | 70 | 2 | < 1 | < 5 | < 2 | 722 | 42 | 47 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 168 | < 0.4 |
| 83368 | 20 | 10 | 120 | 5 | < 1 | 8 | 10 | 2960 | 228 | 131 | 3 | 0.7 | < 0.2 | 4 | 1 | < 0.5 | 278 | < 0.4 |
| 83369 | < 20 | 10 | 370 | 12 | 2 | 8 | 6 | 2073 | 99 | 44 | 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 109 | 1.2 |
| 83370 | < 20 | 30 | 70 | 4 | < 1 | 9 | < 2 | 3727 | 432 | 218 | 4 | 1.2 | < 0.2 | 1 | 0.5 | < 0.5 | 98 | < 0.4 |
| 83371 | < 20 | 30 | 260 | 6 | 1 | 9 | < 2 | 1564 | 231 | 191 | < 2 | 1 | < 0.2 | 6 | < 0.5 | < 0.5 | 54 | < 0.4 |
| 83372 | < 20 | 20 | 120 | 5 | 1 | 7 | < 2 | 1185 | 112 | 391 | < 2 | 2 | < 0.2 | 4 | < 0.5 | < 0.5 | 144 | < 0.4 |
| 83373 | < 20 | 10 | 170 | 4 | 1 | 6 | < 2 | 1133 | 91 | 339 | < 2 | 1.8 | < 0.2 | 5 | < 0.5 | < 0.5 | 172 | < 0.4 |
| 83374 | < 20 | 40 | 300 | 6 | < 1 | < 5 | 7 | 1660 | 15 | 36 | 12 | < 0.5 | < 0.2 | 2 | 26.4 | < 0.5 | 69 | 0.6 |
| 83375 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | 7 | < 2 | 6 | 12 | < 0.5 | < 0.2 | < 1 | 0.8 | < 0.5 | 10 | < 0.4 |
| 87401 | < 20 | 30 | 1160 | 35 | 7 | 19 | < 2 | 874 | 256 | 33 | 11 | < 0.5 | < 0.2 | 9 | 0.6 | < 0.5 | 244 | 9.4 |
| 87402 | 20 | 70 | 1050 | 8 | 2 | < 5 | 24 | 370 | 256 | 56 | 9 | < 0.5 | 0.4 | 16 | < 0.5 | 3.2 | 599 | 4.4 |
| 87403 | < 20 | < 10 | 1160 | 13 | 3 | < 5 | 63 | 383 | 362 | 142 | 25 | 0.9 | 0.4 | 92 | < 0.5 | 6.2 | 1547 | 7.4 |
| 87404 | 60 | 30 | 810 | 21 | 2 | < 5 | 73 | 274 | 210 | 166 | 25 | 0.9 | 0.2 | 66 | 0.6 | 7.7 | 3046 | 1.1 |
| 87405 | < 20 | < 10 | 100 | 30 | 1 | < 5 | 136 | 106 | 52 | 473 | < 2 | 2.5 | < 0.2 | 7 | 0.8 | 1.2 | 1368 | < 0.4 |
| 87406 | < 20 | < 10 | 50 | 5 | < 1 | 6 | 20 | 388 | 75 | 105 | < 2 | 0.6 | < 0.2 | 1 | < 0.5 | < 0.5 | 499 | < 0.4 |
| 87407 | 50 | 260 | 1900 | 3 | 1 | < 5 | 6 | 330 | 98 | 15 | 3 | < 0.5 | 0.7 | 3 | 0.6 | < 0.5 | 103 | 3.4 |
| 87408 | 170 | < 10 | 780 | 17 | 2 | < 5 | 121 | 335 | 196 | 266 | 14 | 1.4 | 0.2 | 71 | < 0.5 | 16 | 2573 | 2.3 |
| 87409 | < 20 | 10 | 670 | 3 | 2 | < 5 | 6 | 448 | 215 | 30 | 7 | < 0.5 | 0.5 | 5 | 0.6 | 0.7 | 169 | 3.1 |
| 87410 | 60 | 70 | 790 | 11 | 3 | < 5 | 46 | 245 | 386 | 168 | 30 | < 0.5 | 0.3 | 51 | < 0.5 | 5.5 | 1432 | 5.2 |
| 87411 | 30 | 30 | 100 | 9 | 1 | < 5 | 3 | 1595 | 104 | 217 | < 2 | 0.6 | < 0.2 | 2 | < 0.5 | < 0.5 | 39 | < 0.4 |
| 87412 | 40 | 100 | 190 | 15 | 1 | < 5 | 27 | 1087 | 70 | 522 | < 2 | 2.2 | < 0.2 | 3 | < 0.5 | < 0.5 | 1004 | < 0.4 |
| 87413 | < 20 | 10 | 120 | 12 | 2 | < 5 | 38 | 1032 | 109 | 292 | < 2 | 1.2 | < 0.2 | 3 | < 0.5 | 0.8 | 275 | < 0.4 |
| 87414 | 60 | 10 | 800 | 30 | 8 | 20 | 10 | 1154 | 236 | 99 | 204 | < 0.5 | 0.6 | 5 | < 0.5 | < 0.5 | 334 | 11.3 |
| 87415 | < 20 | < 10 | 890 | 39 | 7 | 17 | < 2 | 752 | 1111 | 72 | 6 | < 0.5 | < 0.2 | 10 | < 0.5 | < 0.5 | 334 | 22.5 |
| 87416 | < 20 | < 10 | 300 | 24 | 5 | 12 | < 2 | 919 | 197 | 95 | 22 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 98 | 1.7 |
| 87417 | 30 | 50 | 210 | 17 | 2 | < 5 | 18 | 1334 | 79 | 408 | < 2 | 1.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 778 | < 0.4 |
| 87418 | 250 | 60 | 90 | 13 | 2 | < 5 | 15 | 150 | 20 | 50 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | 0.5 | 129 | < 0.4 |
| 87419 | 90 | 120 | 320 | 31 | 2 | < 5 | 57 | 328 | 31 | 226 | 7 | 1.1 | < 0.2 | 3 | 0.5 | 1.5 | 458 | 0.4 |
| 87420 | 40 | < 10 | 60 | 14 | < 1 | < 5 | 18 | 742 | 13 | 110 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 397 | < 0.4 |
| 87421 | 50 | 40 | 100 | 15 | 2 | 6 | 39 | 1954 | 132 | 116 | 10 | 0.5 | < 0.2 | 3 | < 0.5 | 2.1 | 245 | < 0.4 |
| 87422 | < 20 | 10 | 150 | 6 | 2 | 8 | < 2 | 6464 | 214 | 194 | 10 | 0.9 | < 0.2 | 2 | 0.7 | < 0.5 | 156 | < 0.4 |
| 87423 | < 20 | < 10 | 110 | 6 | 1 | < 5 | 4 | 1545 | 95 | 12 | 4 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 95 | < 0.4 |

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| Analyte Symbol | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi |
|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS |
| 87424 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | 20 | < 2 | < 4 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | < 3 | < 0.4 |
| 87425 | < 20 | 20 | 340 | 15 | 1 | 13 | 22 | 1010 | 131 | 536 | 9 | 3.1 | < 0.2 | 7 | 1.4 | < 0.5 | 1314 | < 0.4 |
| 87426 | 50 | 50 | 50 | 25 | 1 | 7 | 49 | 203 | 39 | 277 | 5 | 1.4 | < 0.2 | 9 | 0.9 | < 0.5 | 264 | 0.4 |
| 87427 | 20 | 30 | 120 | 15 | 2 | < 5 | 53 | 1187 | 75 | 74 | 4 | < 0.5 | < 0.2 | 5 | 0.6 | 1.6 | 744 | < 0.4 |
| 87428 | < 20 | 20 | 120 | 6 | 1 | 5 | < 2 | 2187 | 485 | 118 | < 2 | 1.6 | < 0.2 | 16 | < 0.5 | < 0.5 | 124 | < 0.4 |
| 87429 | < 20 | < 10 | < 30 | < 1 | 12 | < 5 | < 2 | 24 | 2 | 7 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 76 | < 0.4 |
| 87430 | < 20 | 20 | 70 | 7 | 1 | 5 | 6 | 1048 | 88 | 96 | 31 | 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 146 | < 0.4 |
| 87431 | 50 | 30 | 870 | 23 | 2 | 8 | 50 | 1125 | 71 | 166 | 24 | 1 | < 0.2 | 13 | 1.5 | < 0.5 | 524 | < 0.4 |
| 87432 | 60 | 170 | 200 | 13 | 2 | < 5 | 32 | 472 | 41 | 1941 | 3 | | < 0.2 | 18 | 1 | 1.2 | 1611 | 0.9 |
| 87433 | 30 | 10 | 100 | 5 | 1 | < 5 | < 2 | 1870 | 139 | 165 | < 2 | 1 | < 0.2 | 3 | < 0.5 | < 0.5 | 226 | < 0.4 |
| 87434 | 20 | 20 | 160 | 7 | 1 | < 5 | 42 | 1598 | 85 | 801 | < 2 | 1.9 | < 0.2 | 2 | < 0.5 | 1.1 | 1137 | < 0.4 |
| 87435 | < 20 | < 10 | 220 | 18 | 3 | < 5 | 114 | 508 | 59 | 427 | < 2 | 2.1 | < 0.2 | 30 | < 0.5 | 3.1 | 1199 | 0.6 |
| 87436 | 20 | < 10 | 60 | 6 | < 1 | < 5 | 10 | 487 | 73 | 177 | 4 | 0.9 | < 0.2 | 2 | < 0.5 | < 0.5 | 135 | < 0.4 |
| 87437 | < 20 | 10 | 70 | 7 | 2 | < 5 | < 2 | 2069 | 71 | 1067 | < 2 | | < 0.2 | 6 | 1 | < 0.5 | 104 | < 0.4 |
| 87438 | 70 | 60 | 80 | 13 | 2 | < 5 | 87 | 406 | 18 | 102 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | 2.1 | 1013 | < 0.4 |
| 87439 | 40 | 400 | 200 | 17 | 2 | < 5 | 44 | 650 | 177 | 131 | 2 | 1.1 | < 0.2 | 4 | < 0.5 | 1.3 | 246 | 1.2 |
| 87440 | 40 | 30 | 370 | 4 | 1 | 13 | < 2 | 907 | 88 | 110 | < 2 | 0.7 | < 0.2 | 15 | 0.5 | < 0.5 | 77 | 0.7 |
| 87441 | < 20 | 20 | 130 | 14 | 3 | 24 | < 2 | 2404 | 271 | 384 | < 2 | 1.6 | < 0.2 | 4 | < 0.5 | < 0.5 | 141 | 0.4 |
| 87442 | < 20 | 10 | 90 | 9 | 2 | 50 | < 2 | 2382 | 110 | 179 | < 2 | 0.7 | < 0.2 | 4 | 0.6 | < 0.5 | 77 | < 0.4 |
| 87443 | < 20 | < 10 | 40 | 6 | 1 | < 5 | < 2 | 829 | 144 | 73 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 127 | < 0.4 |
| 87444 | < 20 | < 10 | 130 | 7 | 1 | 7 | 3 | 1124 | 113 | 35 | 14 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 202 | < 0.4 |
| 87445 | < 20 | < 10 | 70 | 5 | 1 | 5 | < 2 | 1170 | 394 | 61 | 3 | < 0.5 | < 0.2 | < 1 | 0.9 | < 0.5 | 71 | < 0.4 |
| 87446 | < 20 | < 10 | 120 | 14 | 3 | 9 | 3 | 1595 | 27 | 16 | 7 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 69 | < 0.4 |
| 87447 | 30 | < 10 | 180 | 14 | 3 | 9 | 14 | 939 | 86 | 222 | 3 | 1 | < 0.2 | 7 | 1.1 | < 0.5 | 136 | < 0.4 |
| 87448 | 230 | 50 | 250 | 11 | 1 | < 5 | 51 | 1170 | 23 | 33 | 28 | < 0.5 | < 0.2 | 2 | 1.1 | 0.8 | 1344 | 0.5 |
| 87449 | 80 | 1220 | 730 | 13 | 1 | < 5 | 9 | 1154 | 26 | 460 | 8 | 2.3 | < 0.2 | 8 | 1.1 | < 0.5 | 144 | < 0.4 |
| 87450 | 40 | 30 | 70 | 18 | 2 | 7 | 9 | 885 | 20 | 323 | 3 | 1.6 | < 0.2 | 6 | 1.3 | < 0.5 | 70 | 0.6 |
| 87451 | 60 | < 10 | < 30 | 4 | < 1 | < 5 | 3 | 219 | 15 | 63 | < 2 | < 0.5 | < 0.2 | < 1 | 0.9 | < 0.5 | 58 | < 0.4 |
| 87452 | < 20 | 20 | 280 | 12 | 2 | 19 | 3 | 981 | 87 | 83 | 11 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 92 | < 0.4 |
| 87453 | < 20 | 10 | 110 | 9 | 2 | 12 | 3 | 949 | 219 | 568 | 3 | 2.9 | < 0.2 | 2 | 1 | < 0.5 | 113 | < 0.4 |
| 87454 | < 20 | 60 | 120 | 16 | 3 | 13 | 2 | 1436 | 130 | 215 | 12 | 1.1 | < 0.2 | 3 | 0.5 | < 0.5 | 812 | < 0.4 |
| 87455 | 90 | 90 | 1730 | 6 | 1 | 9 | 9 | 1812 | 68 | 63 | 7 | < 0.5 | < 0.2 | 2 | 0.9 | < 0.5 | 446 | < 0.4 |
| 87456 | 100 | 210 | 160 | 27 | 5 | 10 | 37 | 1316 | 387 | 73 | < 2 | 2.6 | < 0.2 | 2 | < 0.5 | 0.6 | 220 | < 0.4 |
| 87457 | < 20 | 20 | < 30 | 7 | 1 | 5 | < 2 | 5617 | 65 | 110 | < 2 | 0.6 | < 0.2 | 1 | < 0.5 | < 0.5 | 512 | < 0.4 |
| 87458 | < 20 | 10 | 320 | 8 | 2 | 13 | < 2 | 1648 | 116 | 101 | 16 | 0.8 | < 0.2 | 2 | 1.8 | < 0.5 | 170 | < 0.4 |
| 87459 | < 20 | 50 | 120 | 10 | 2 | 9 | < 2 | 1411 | 74 | 167 | < 2 | 0.9 | < 0.2 | 6 | < 0.5 | < 0.5 | 92 | 0.8 |
| 87460 | < 20 | 20 | 100 | 10 | 2 | 13 | < 2 | 4552 | 82 | 302 | < 2 | 1.5 | < 0.2 | 13 | < 0.5 | < 0.5 | 693 | < 0.4 |
| 87461 | < 20 | 10 | 210 | 17 | 4 | 20 | < 2 | 2481 | 213 | 553 | < 2 | 2.7 | < 0.2 | 24 | 0.6 | < 0.5 | 291 | 0.7 |
| 87462 | < 20 | 10 | 120 | 5 | < 1 | < 5 | 9 | 1880 | 35 | 43 | 46 | < 0.5 | < 0.2 | 6 | 0.7 | < 0.5 | 61 | < 0.4 |
| 87463 | < 20 | 20 | 70 | 5 | 1 | < 5 | < 2 | 2700 | 96 | 76 | < 2 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 60 | < 0.4 |
| 87464 | < 20 | 50 | 90 | 11 | 3 | 9 | 8 | 2798 | 93 | 96 | 28 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 56 | < 0.4 |
| 87465 | < 20 | 20 | 110 | 19 | 4 | 30 | < 2 | 2829 | 151 | 312 | < 2 | 1.4 | < 0.2 | 3 | < 0.5 | < 0.5 | 229 | 0.4 |
| 87466 | < 20 | 40 | 700 | 24 | 5 | 16 | 3 | 1359 | 37 | 101 | 28 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 95 | 1.5 |
| 87467 | < 20 | 20 | 50 | 5 | 1 | 6 | < 2 | 4010 | 65 | 34 | 6 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 476 | < 0.4 |
| 87468 | < 20 | 10 | 60 | 11 | 2 | 8 | 3 | 4110 | 101 | 969 | < 2 | 4.6 | < 0.2 | 6 | 1.1 | < 0.5 | 299 | < 0.4 |
| 87469 | 20 | 10 | 110 | 11 | 2 | 6 | 19 | 2744 | 62 | 75 | 7 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 299 | < 0.4 |
| 87470 | < 20 | 20 | 200 | 8 | 2 | 7 | < 2 | 1166 | 67 | 58 | 2 | < 0.5 | < 0.2 | 3 | 0.9 | < 0.5 | 63 | 1.5 |
| 87471 | 30 | 20 | 110 | 11 | < 1 | 7 | 40 | 1674 | 44 | 85 | 5 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 113 | < 0.4 |
| 87472 | < 20 | 20 | 120 | 14 | 2 | 7 | 20 | 1720 | 68 | 414 | < 2 | 1.8 | < 0.2 | 17 | 0.6 | 0.6 | 462 | < 0.4 |

Final Report
Activation Laboratories

| Analyte Symbol | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi |
|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS |
| 87473 | 80 | 20 | 2670 | 20 | 3 | 21 | 6 | 1879 | 65 | 65 | 1010 | < 0.5 | < 0.2 | 14 | 4.1 | < 0.5 | 334 | 4.7 |
| 87474 | 90 | 100 | 120 | 15 | 1 | < 5 | 36 | 569 | 26 | 253 | 7 | 1.2 | < 0.2 | 3 | 0.6 | 0.6 | 180 | < 0.4 |
| 87475 | 370 | 190 | 190 | 18 | 3 | 7 | 66 | 838 | 128 | 167 | 2 | 1.1 | < 0.2 | 2 | 0.5 | 2.4 | 1676 | 1.4 |
| 87476 | < 20 | 10 | 170 | 10 | 2 | 8 | < 2 | 788 | 108 | 86 | < 2 | < 0.5 | < 0.2 | 3 | 0.5 | < 0.5 | 54 | < 0.4 |
| 87477 | < 20 | 20 | 60 | 10 | 2 | 8 | < 2 | 873 | 109 | 206 | < 2 | 1.2 | < 0.2 | 3 | < 0.5 | < 0.5 | 86 | < 0.4 |
| 87478 | < 20 | 20 | 90 | 7 | 1 | 9 | < 2 | 625 | 59 | 206 | < 2 | 1.1 | < 0.2 | 3 | < 0.5 | < 0.5 | 29 | < 0.4 |
| 87479 | < 20 | 10 | 70 | 9 | 2 | 9 | < 2 | 1181 | 89 | 167 | < 2 | 0.8 | < 0.2 | 4 | < 0.5 | < 0.5 | 52 | < 0.4 |
| 87480 | < 20 | 20 | 100 | 10 | 2 | 10 | < 2 | 827 | 92 | 218 | < 2 | 1.1 | < 0.2 | 4 | < 0.5 | < 0.5 | 140 | < 0.4 |
| 87481 | 30 | 10 | 160 | 15 | 5 | < 5 | 26 | 136 | 9 | 149 | 3 | 0.7 | < 0.2 | 8 | 1 | < 0.5 | 54 | < 0.4 |
| 87482 | < 20 | 10 | 100 | 6 | 1 | < 5 | < 2 | 518 | 41 | 40 | < 2 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 27 | < 0.4 |
| 87483 | 30 | 30 | 200 | 18 | 4 | 16 | 3 | 1461 | 140 | 339 | 4 | 1.7 | < 0.2 | 11 | 1.5 | < 0.5 | 119 | < 0.4 |
| 87484 | < 20 | 10 | 50 | 9 | 2 | 9 | < 2 | 843 | 93 | 143 | < 2 | 0.7 | < 0.2 | 3 | < 0.5 | < 0.5 | 104 | < 0.4 |
| 87485 | 50 | 20 | 50 | 11 | 2 | 14 | 7 | 960 | 111 | 137 | < 2 | 0.7 | < 0.2 | 16 | 0.6 | < 0.5 | 58 | < 0.4 |
| 87486 | < 20 | 20 | 160 | 8 | 2 | 10 | 2 | 1033 | 101 | 228 | 2 | 1.1 | < 0.2 | 7 | 0.5 | < 0.5 | 192 | < 0.4 |
| 87487 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | 11 | < 2 | < 4 | < 2 | < 0.5 | < 0.2 | < 1 | 0.6 | < 0.5 | < 3 | < 0.4 |
| 87488 | < 20 | 20 | 130 | 19 | 2 | 19 | 12 | 1301 | 237 | 1189 | 3 | | < 0.2 | 12 | 1.6 | < 0.5 | 476 | < 0.4 |
| 87489 | < 20 | 10 | 1180 | 46 | 9 | 31 | < 2 | 2764 | 359 | 35 | 6 | < 0.5 | < 0.2 | 12 | 0.7 | < 0.5 | 117 | 4.2 |
| 87490 | < 20 | 10 | 1160 | 50 | 7 | 21 | < 2 | 2638 | 231 | 23 | 3 | < 0.5 | < 0.2 | 14 | 0.7 | < 0.5 | 333 | 2.5 |
| 87491 | < 20 | < 10 | 1440 | 50 | 10 | 29 | < 2 | 2089 | 332 | 28 | 7 | < 0.5 | 0.3 | 28 | 0.8 | < 0.5 | 279 | 3.8 |
| 87492 | < 20 | 20 | 80 | 8 | 2 | 8 | < 2 | 3679 | 107 | 68 | 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 400 | < 0.4 |
| 87493 | < 20 | 20 | 250 | 14 | 3 | 11 | < 2 | 2217 | 164 | 92 | < 2 | 0.5 | < 0.2 | 7 | < 0.5 | < 0.5 | 517 | < 0.4 |
| 87494 | < 20 | 30 | 620 | 54 | 10 | 33 | < 2 | 2786 | 341 | 64 | 5 | < 0.5 | < 0.2 | 22 | 1 | < 0.5 | 202 | 1.5 |
| 87495 | < 20 | < 10 | 990 | 55 | 12 | 37 | 4 | 2297 | 463 | 62 | 13 | 0.5 | 0.2 | 45 | 1.1 | < 0.5 | 428 | 8.4 |
| 87496 | < 20 | < 10 | 70 | 3 | < 1 | < 5 | < 2 | 3331 | 40 | 79 | < 2 | < 0.5 | < 0.2 | 1 | 0.6 | < 0.5 | 81 | < 0.4 |
| 87497 | < 20 | 10 | 40 | 7 | 1 | 6 | 5 | 4024 | 105 | 83 | 3 | < 0.5 | < 0.2 | < 1 | 0.8 | < 0.5 | 282 | < 0.4 |
| 87498 | < 20 | < 10 | 130 | 10 | 2 | 10 | 3 | 4289 | 80 | 54 | < 2 | < 0.5 | < 0.2 | 4 | 0.8 | < 0.5 | 78 | 0.8 |
| 87499 | < 20 | 20 | 530 | 21 | 4 | 15 | 4 | 3082 | 208 | 119 | < 2 | 0.7 | < 0.2 | 5 | 1.1 | < 0.5 | 110 | 1.3 |
| 87500 | < 20 | 10 | 450 | 7 | 2 | 6 | 7 | 2528 | 109 | 161 | < 2 | 0.8 | < 0.2 | 1 | 1.2 | < 0.5 | 1617 | < 0.4 |
| 87601 | 30 | 20 | 200 | 10 | 2 | < 5 | 32 | 1386 | 64 | 116 | < 2 | 0.6 | < 0.2 | 3 | 1 | 0.7 | 540 | < 0.4 |
| 87602 | 40 | < 10 | 260 | 17 | 2 | < 5 | 157 | 647 | 56 | 215 | < 2 | 1 | < 0.2 | 4 | 1.4 | 3.8 | 741 | < 0.4 |
| 87603 | < 20 | 20 | 30 | 18 | 4 | 18 | 6 | 3614 | 315 | 89 | 6 | < 0.5 | < 0.2 | 2 | 1 | < 0.5 | 190 | < 0.4 |
| 87604 | < 20 | < 10 | 350 | 15 | 1 | < 5 | 74 | 1732 | 17 | 22 | 10 | < 0.5 | < 0.2 | 3 | 1.1 | 1.4 | 955 | < 0.4 |
| 87605 | 20 | 30 | 230 | 20 | 4 | 7 | 116 | 859 | 50 | 192 | 20 | 0.8 | < 0.2 | 35 | 1.1 | 2 | 644 | < 0.4 |
| 87606 | < 20 | < 10 | < 30 | 18 | < 1 | < 5 | 5 | 980 | 7 | 276 | < 2 | 1.2 | < 0.2 | < 1 | 0.8 | < 0.5 | 263 | < 0.4 |
| 87607 | 40 | 40 | 110 | 13 | 1 | 10 | 36 | 721 | 80 | 102 | 4 | < 0.5 | < 0.2 | 4 | 1.1 | < 0.5 | 261 | < 0.4 |
| 87608 | 50 | < 10 | < 30 | 11 | 1 | 82 | 4 | 402 | 49 | 507 | 7 | 2.2 | < 0.2 | 1 | 2.2 | < 0.5 | 819 | < 0.4 |
| 87609 | < 20 | 30 | < 30 | 13 | 3 | 7 | 10 | 892 | 112 | 529 | < 2 | 2.2 | < 0.2 | 2 | 0.7 | < 0.5 | 155 | < 0.4 |
| 87610 | 60 | < 10 | 90 | 19 | 2 | < 5 | 32 | 215 | 27 | 208 | < 2 | 0.8 | < 0.2 | 3 | 1 | < 0.5 | 331 | < 0.4 |
| 87611 | 30 | 20 | 150 | 17 | 1 | < 5 | 126 | 471 | 6 | 105 | < 2 | 0.5 | < 0.2 | < 1 | 0.9 | 1.9 | 1418 | < 0.4 |
| 87612 | 30 | < 10 | 620 | 45 | 5 | 15 | 4 | 1898 | 187 | 25 | 3 | < 0.5 | < 0.2 | 6 | 1.3 | < 0.5 | 532 | 2.8 |
| 87613 | 450 | 80 | 880 | 15 | 4 | 13 | 41 | 1308 | 73 | 121 | 47 | 0.6 | < 0.2 | 5 | 0.9 | 2.6 | 892 | 4.9 |
| 87614 | 30 | 20 | 3500 | 47 | 5 | 16 | 3 | 2734 | 269 | 34 | 3 | < 0.5 | 0.3 | 1 | 1.1 | < 0.5 | 332 | 1.7 |
| 87615 | < 20 | < 10 | 860 | 28 | 8 | 19 | 15 | 798 | 681 | 16 | 27 | < 0.5 | 0.9 | 11 | 1.1 | < 0.5 | 403 | < 0.4 |
| 87616 | 90 | 40 | 190 | 15 | 2 | < 5 | 46 | 544 | 86 | 162 | 4 | 0.7 | < 0.2 | 7 | 1 | 0.9 | 1125 | < 0.4 |
| 87617 | 50 | 20 | 1170 | 37 | 5 | 17 | 3 | 2304 | 353 | 38 | 10 | < 0.5 | < 0.2 | 8 | 1 | < 0.5 | 255 | 8 |
| 87618 | 50 | 20 | 4350 | 37 | 5 | 16 | < 2 | 1945 | 134 | 27 | 5 | < 0.5 | < 0.2 | 3 | 1 | < 0.5 | 329 | 2.3 |
| 87619 | < 20 | < 10 | 190 | 34 | 8 | 23 | < 2 | 2323 | 208 | 50 | 11 | < 0.5 | < 0.2 | 4 | 1 | < 0.5 | 164 | 1 |
| 87620 | < 20 | < 10 | 1400 | 56 | 12 | 32 | < 2 | 2079 | 817 | 49 | 5 | < 0.5 | 0.2 | 64 | 1.2 | < 0.5 | 297 | 3.3 |
| 87621 | < 20 | 30 | 1320 | 55 | 10 | 27 | < 2 | 1925 | 428 | 48 | 13 | 0.6 | 0.2 | 45 | 1.1 | < 0.5 | 243 | 4.1 |

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| Analyte Symbol | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi |
|------------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS |
| 87622 | < 20 | < 10 | 370 | < 1 | < 1 | < 5 | < 2 | 10 | < 2 | < 4 | < 2 | < 0.5 | < 0.2 | < 1 | 1.2 | < 0.5 | 4 | < 0.4 |
| 87623 | 40 | 150 | 90 | 19 | 3 | < 5 | < 2 | 746 | 31 | 237 | < 2 | 1 | < 0.2 | 2 | 1.2 | < 0.5 | 16 | < 0.4 |
| 87624 | 120 | 20 | 60 | 11 | 2 | 10 | 14 | 325 | 18 | 72 | < 2 | < 0.5 | < 0.2 | < 1 | 1.1 | < 0.5 | 320 | < 0.4 |
| 87625 | < 20 | 30 | 50 | 13 | < 1 | < 5 | 13 | 1001 | 35 | 575 | < 2 | 2.4 | < 0.2 | 1 | 1 | < 0.5 | 378 | < 0.4 |
| 87626 | 40 | 40 | 170 | 27 | 5 | 51 | 20 | 1440 | 263 | 623 | 7 | 2.9 | < 0.2 | 15 | 1.7 | 0.8 | 455 | < 0.4 |
| 87627 | < 20 | 10 | 110 | 9 | 2 | 10 | 4 | 5354 | 83 | 221 | < 2 | 1 | < 0.2 | 10 | 0.9 | < 0.5 | 710 | < 0.4 |
| 87628 | 40 | 10 | 310 | 15 | 3 | 9 | 28 | 1365 | 194 | 471 | < 2 | 2.1 | < 0.2 | 17 | 0.8 | 0.5 | 514 | < 0.4 |

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| Analyte Symbol | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | W | Tl | Pb |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 83301 | 2050 | 4900 | 595 | 2480 | 418 | 116 | 317 | 50.1 | 242 | 35 | 70.9 | 7.59 | 40.9 | 5.51 | 4.5 | 6 | < 0.1 | 24 |
| 83302 | 545 | 1500 | 202 | 872 | 129 | 30.2 | 70.7 | 7.6 | 33.7 | 5.1 | 11.7 | 1.37 | 7.8 | 1.08 | 1.4 | < 1 | < 0.1 | 13 |
| 83303 | 205 | 469 | 53.1 | 205 | 26.8 | 6.06 | 14.1 | 1.5 | 6.8 | 1 | 2.2 | 0.26 | 1.5 | 0.21 | 3.3 | 3 | < 0.1 | 13 |
| 83304 | 802 | 1490 | 151 | 537 | 72.6 | 19.7 | 55 | 7.3 | 30.9 | 4.1 | 7.4 | 0.62 | 3 | 0.4 | 0.8 | 2 | < 0.1 | 11 |
| 83305 | 933 | 1720 | 174 | 627 | 98 | 27.1 | 75.3 | 10.2 | 47.5 | 7.6 | 16 | 1.8 | 9.2 | 1.19 | 1.3 | 6 | < 0.1 | 28 |
| 83306 | 342 | 824 | 102 | 456 | 89.1 | 25 | 67.3 | 8.7 | 38.4 | 5.7 | 12.1 | 1.24 | 6 | 0.74 | 0.6 | 1 | < 0.1 | 6 |
| 83307 | 22.2 | 48.8 | 6.08 | 27.3 | 5.5 | 1.7 | 4.7 | 0.7 | 3.6 | 0.6 | 1.7 | 0.24 | 1.4 | 0.22 | 4.2 | 2 | < 0.1 | 7 |
| 83308 | 32 | 70.9 | 9.16 | 42.6 | 9.4 | 2.97 | 8.8 | 1.4 | 7.2 | 1.3 | 3.3 | 0.42 | 2.4 | 0.37 | 5.7 | 2 | < 0.1 | 7 |
| 83309 | 22.8 | 51.7 | 6.56 | 29.5 | 6.2 | 1.88 | 5.7 | 0.8 | 4.5 | 0.8 | 2.2 | 0.3 | 1.9 | 0.3 | 4.3 | 2 | < 0.1 | 8 |
| 83310 | 18.3 | 38.2 | 4.66 | 20.5 | 4.3 | 1.39 | 3.9 | 0.6 | 3.4 | 0.6 | 1.8 | 0.25 | 1.6 | 0.26 | 2.6 | 2 | < 0.1 | 5 |
| 83311 | 37.1 | 71.9 | 8.12 | 32.9 | 5.9 | 1.94 | 4.8 | 0.7 | 3.8 | 0.7 | 1.8 | 0.25 | 1.6 | 0.25 | 3.5 | 3 | < 0.1 | 11 |
| 83312 | 20.8 | 47.9 | 6.16 | 28.1 | 6 | 1.8 | 5.2 | 0.8 | 4.1 | 0.8 | 2 | 0.3 | 1.9 | 0.3 | 4.5 | 2 | < 0.1 | < 5 |
| 83313 | 4300 | 9740 | 1130 | 4400 | 615 | 149 | 341 | 41.1 | 193 | 29.8 | 66.7 | 7.91 | 39.9 | 4.93 | 2.9 | 4 | < 0.1 | 34 |
| 83314 | 2210 | 4540 | 527 | 2190 | 344 | 80.4 | 171 | 13.7 | 51.6 | 6.9 | 15.8 | 2.02 | 12.9 | 1.87 | 0.9 | 2 | < 0.1 | 7 |
| 83315 | 389 | 1830 | 376 | 2190 | 535 | 142 | 367 | 43.6 | 176 | 25 | 52.4 | 6.01 | 30.5 | 3.64 | 2.4 | 5 | < 0.1 | 182 |
| 83316 | 5840 | 11000 | 1130 | 4130 | 591 | 139 | 325 | 32 | 133 | 18.6 | 38.9 | 4.32 | 22.3 | 2.87 | 2.2 | 6 | < 0.1 | 27 |
| 83317 | 4740 | 9270 | 964 | 3480 | 500 | 133 | 354 | 41.2 | 169 | 23.2 | 47.9 | 5.17 | 26.9 | 3.43 | 2.7 | 7 | < 0.1 | 54 |
| 83318 | 46.1 | 88.9 | 9.9 | 37.9 | 6.4 | 1.7 | 4.4 | 0.5 | 2.4 | 0.4 | 0.9 | 0.12 | 0.8 | 0.12 | 3.7 | 3 | < 0.1 | 11 |
| 83319 | 5.8 | 12.2 | 1.45 | 6.2 | 1.3 | 0.38 | 1.5 | 0.3 | 1.7 | 0.3 | 0.9 | 0.14 | 0.9 | 0.14 | 1 | 5 | < 0.1 | < 5 |
| 83320 | 28.2 | 59.3 | 7.05 | 31 | 6.5 | 1.82 | 6.4 | 1.1 | 6.1 | 1.2 | 3.4 | 0.51 | 3.4 | 0.54 | 3.8 | 3 | < 0.1 | 10 |
| 83321 | 203 | 432 | 47.7 | 185 | 25.8 | 6.04 | 15 | 1.7 | 8 | 1.2 | 2.8 | 0.34 | 1.8 | 0.26 | 13.2 | 4 | < 0.1 | 11 |
| 83322 | 12.7 | 26.2 | 3.2 | 14.3 | 3.2 | 0.93 | 3.3 | 0.6 | 3.1 | 0.6 | 1.7 | 0.25 | 1.6 | 0.27 | 1.7 | 4 | < 0.1 | < 5 |
| 83323 | 92.5 | 180 | 20.1 | 81.1 | 13.7 | 3.37 | 10.2 | 1.3 | 6.1 | 1 | 2.4 | 0.29 | 1.6 | 0.22 | 5.2 | 3 | < 0.1 | 15 |
| 83324 | 124 | 222 | 24 | 92.1 | 15.3 | 4.86 | 12.1 | 1.7 | 8.4 | 1.4 | 3.6 | 0.47 | 2.7 | 0.4 | 9.6 | 3 | < 0.1 | 18 |
| 83325 | 241 | 717 | 163 | 1330 | 553 | 105 | 276 | 23.6 | 79.7 | 9.8 | 18.2 | 2.11 | 11.2 | 1.38 | 2.9 | 10 | < 0.1 | 266 |
| 83326 | 135 | 317 | 38.6 | 172 | 30.2 | 7.13 | 17.2 | 1.9 | 9.1 | 1.6 | 4.7 | 0.69 | 4.2 | 0.6 | 4.8 | 5 | 0.2 | 147 |
| 83327 | 80.9 | 158 | 15.8 | 53.8 | 6.2 | 1.32 | 2.5 | 0.2 | 1 | 0.1 | 0.4 | 0.05 | 0.3 | 0.05 | 4.7 | 8 | < 0.1 | 1460 |
| 83328 | 85.1 | 217 | 22.2 | 78.4 | 10.7 | 2.37 | 4.7 | 0.5 | 1.9 | 0.3 | 0.7 | 0.1 | 0.6 | 0.1 | 20.4 | 15 | 0.1 | 2070 |
| 83329 | 166 | 359 | 45 | 213 | 58.9 | 16.7 | 41.2 | 3.6 | 11.8 | 1.5 | 3.5 | 0.46 | 2.9 | 0.45 | 1 | 15 | 0.1 | 88 |
| 83330 | 655 | 1710 | 234 | 1110 | 231 | 65.5 | 182 | 23.2 | 107 | 15.6 | 31.9 | 3.34 | 15.9 | 1.87 | 1.7 | 2 | < 0.1 | 10 |
| 83331 | 529 | 1390 | 191 | 911 | 187 | 51.4 | 140 | 18.4 | 81.7 | 12.3 | 24.1 | 2.44 | 11.7 | 1.39 | 1.5 | 4 | < 0.1 | 22 |
| 83332 | 4190 | 8420 | 876 | 3080 | 403 | 95.5 | 219 | 21 | 79.3 | 9.7 | 18.7 | 2.22 | 13.1 | 1.92 | 1.7 | 10 | < 0.1 | 220 |
| 83333 | 248 | 567 | 65.8 | 270 | 38 | 8.86 | 21.2 | 2.4 | 10.3 | 1.5 | 3.4 | 0.38 | 2.2 | 0.31 | 1 | 3 | < 0.1 | 18 |
| 83334 | 158 | 354 | 40.1 | 158 | 22.8 | 5.08 | 12 | 1.3 | 5.4 | 0.8 | 2 | 0.26 | 1.6 | 0.24 | 3.7 | 6 | < 0.1 | 22 |
| 83335 | 141 | 233 | 25 | 104 | 29.5 | 7.81 | 22.7 | 2.8 | 14.5 | 2.9 | 8.6 | 1.32 | 8.4 | 1.28 | 2.8 | 21 | < 0.1 | 7 |
| 83336 | 782 | 1700 | 200 | 805 | 112 | 23.6 | 50.2 | 4.2 | 16.4 | 2.1 | 4.2 | 0.49 | 2.9 | 0.41 | 0.6 | 4 | < 0.1 | < 5 |
| 83337 | 290 | 656 | 72.5 | 277 | 34.5 | 7.83 | 18.8 | 1.9 | 8.3 | 1.4 | 3.4 | 0.46 | 2.9 | 0.48 | 0.5 | 2 | < 0.1 | 6 |
| 83338 | 2090 | 3280 | 320 | 1140 | 151 | 36.5 | 90.5 | 9.6 | 35.9 | 4.4 | 7.6 | 0.79 | 4 | 0.51 | 0.7 | 3 | < 0.1 | < 5 |
| 83339 | 958 | 1910 | 211 | 817 | 127 | 33.1 | 87.2 | 9.7 | 39.7 | 5.5 | 10 | 1.07 | 5.9 | 0.8 | 1.1 | 5 | < 0.1 | 6 |
| 83340 | 95.2 | 230 | 29.4 | 126 | 22.9 | 6.34 | 17.8 | 2.3 | 10.4 | 1.7 | 4.1 | 0.53 | 3.1 | 0.45 | 2.5 | 4 | 0.3 | 47 |
| 83341 | 378 | 881 | 99.2 | 382 | 50.2 | 12.1 | 31.1 | 3.5 | 14.5 | 2 | 4.4 | 0.5 | 2.8 | 0.38 | 0.8 | 1 | < 0.1 | < 5 |
| 83342 | 355 | 857 | 107 | 474 | 95.5 | 26.9 | 79.8 | 10.6 | 48.8 | 7.8 | 17.4 | 1.98 | 10.8 | 1.46 | 2.9 | 5 | < 0.1 | 50 |
| 83343 | 123 | 308 | 37.6 | 162 | 27.1 | 6.82 | 17.4 | 2.1 | 9.7 | 1.6 | 3.4 | 0.4 | 2.2 | 0.31 | 0.9 | 2 | < 0.1 | 10 |
| 83344 | 330 | 775 | 92.8 | 399 | 68.6 | 17.8 | 47.5 | 6 | 28.5 | 4.7 | 11.1 | 1.31 | 7.4 | 1.05 | 2.8 | 5 | < 0.1 | 35 |
| 83345 | 311 | 804 | 103 | 461 | 81 | 20.7 | 57.2 | 7 | 31.4 | 4.9 | 11 | 1.18 | 6.3 | 0.82 | 3.9 | 4 | < 0.1 | 147 |
| 83346 | 102 | 267 | 35.7 | 160 | 29.2 | 7.77 | 21 | 2.7 | 12.6 | 2.1 | 4.7 | 0.57 | 3.2 | 0.43 | 5.2 | 3 | < 0.1 | 151 |
| 83347 | 436 | 1010 | 121 | 525 | 90 | 22.3 | 57.5 | 6.2 | 26.1 | 3.8 | 8 | 0.88 | 4.7 | 0.62 | 3.7 | 4 | < 0.1 | 125 |
| 83348 | 154 | 370 | 44.4 | 189 | 31.3 | 8.13 | 20.9 | 2.7 | 12.3 | 2 | 4.8 | 0.56 | 3.1 | 0.43 | 1.9 | 3 | 0.4 | 60 |
| 83349 | 1.2 | 2.2 | 0.25 | 1.1 | 0.2 | 0.09 | 0.3 | 0.1 | 0.5 | 0.1 | 0.5 | 0.09 | 0.7 | 0.15 | < 0.2 | 2 | < 0.1 | < 5 |

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| Analyte Symbol | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | W | Tl | Pb |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 83350 | 151 | 401 | 51.2 | 227 | 38.7 | 9.51 | 25.3 | 2.9 | 13.2 | 2 | 4.2 | 0.44 | 2.2 | 0.28 | 6 | 2 | < 0.1 | 176 |
| 83351 | 102 | 185 | 17.6 | 62.5 | 9.9 | 2.51 | 6.6 | 0.9 | 5 | 1 | 2.5 | 0.34 | 2.1 | 0.33 | 2.3 | 3 | < 0.1 | 6 |
| 83352 | 164 | 370 | 42 | 169 | 26.1 | 6.34 | 15.3 | 1.9 | 8.7 | 1.4 | 3.6 | 0.5 | 3.3 | 0.54 | 5.6 | 3 | < 0.1 | 17 |
| 83353 | 157 | 346 | 37.7 | 150 | 25.5 | 7.06 | 19.4 | 2.8 | 14.2 | 2.5 | 6.4 | 0.83 | 4.8 | 0.72 | 1.2 | 1 | < 0.1 | 22 |
| 83354 | 679 | 1840 | 239 | 1090 | 196 | 51.3 | 137 | 15.6 | 66.8 | 9.7 | 20.3 | 2.07 | 10.9 | 1.39 | 1.9 | 8 | < 0.1 | 120 |
| 83355 | 141 | 321 | 36 | 145 | 22.2 | 5.59 | 14.6 | 1.8 | 8.6 | 1.4 | 3.2 | 0.39 | 2.1 | 0.3 | 0.4 | 1 | < 0.1 | < 5 |
| 83356 | 409 | 795 | 86.2 | 346 | 53.8 | 13.4 | 33.8 | 4.2 | 20 | 3.2 | 7.3 | 0.84 | 4.6 | 0.63 | 3.1 | 3 | < 0.1 | 48 |
| 83357 | 4000 | 7090 | 694 | 2400 | 317 | 78.7 | 177 | 21.5 | 105 | 18.6 | 49.4 | 6.34 | 33.7 | 4.45 | 2.4 | 8 | < 0.1 | 9 |
| 83358 | 1030 | 1970 | 207 | 761 | 104 | 25.6 | 55.7 | 7.1 | 31.7 | 5.1 | 11.7 | 1.37 | 7.6 | 1.08 | 1.4 | 2 | < 0.1 | < 5 |
| 83359 | 189 | 538 | 87.3 | 485 | 69.7 | 13.4 | 25.2 | 2.4 | 9.5 | 1.3 | 2.7 | 0.31 | 1.9 | 0.26 | 0.7 | < 1 | < 0.1 | 11 |
| 83360 | 557 | 1380 | 159 | 662 | 103 | 26.3 | 64.3 | 8.1 | 39.4 | 6.6 | 16.1 | 1.91 | 10.8 | 1.56 | 2.5 | 3 | < 0.1 | 10 |
| 83361 | 697 | 1650 | 197 | 784 | 112 | 26.6 | 60.5 | 7 | 30.9 | 4.7 | 10.1 | 1.17 | 6.4 | 0.92 | 2.4 | 3 | < 0.1 | 11 |
| 83362 | 138 | 302 | 35.7 | 146 | 24.3 | 5.96 | 14.1 | 1.6 | 7.2 | 1.2 | 2.9 | 0.39 | 2.3 | 0.35 | 2.1 | 17 | 0.1 | 117 |
| 83363 | 607 | 1560 | 175 | 707 | 97.6 | 23.3 | 53 | 6.1 | 28.5 | 4.4 | 9.4 | 1.08 | 5.9 | 0.83 | 1.2 | 8 | < 0.1 | 8 |
| 83364 | 63.5 | 156 | 18.8 | 76.9 | 12.1 | 2.91 | 7.7 | 1.1 | 6 | 1.2 | 3.1 | 0.45 | 2.8 | 0.42 | 2.8 | 8 | < 0.1 | 32 |
| 83365 | 557 | 1500 | 182 | 771 | 120 | 29.4 | 70.2 | 8.6 | 39.5 | 6.2 | 13.4 | 1.53 | 8.3 | 1.16 | 3.3 | 6 | < 0.1 | 11 |
| 83366 | 45 | 84.7 | 8.99 | 34.9 | 6.5 | 1.82 | 5.3 | 0.8 | 4.3 | 0.8 | 2.3 | 0.34 | 2.4 | 0.41 | 3.1 | 13 | < 0.1 | 11 |
| 83367 | 218 | 546 | 62.6 | 251 | 34.1 | 7.98 | 17.8 | 2.2 | 10.6 | 1.8 | 4.4 | 0.54 | 3.2 | 0.46 | 0.6 | 6 | < 0.1 | < 5 |
| 83368 | 368 | 865 | 105 | 468 | 91.7 | 26.5 | 78.6 | 12.5 | 61.5 | 9.7 | 20.8 | 2.27 | 11.4 | 1.5 | 1.8 | 9 | < 0.1 | 10 |
| 83369 | 2140 | 4070 | 418 | 1460 | 167 | 36.4 | 68.1 | 7.1 | 29.6 | 4 | 8.1 | 0.93 | 5.2 | 0.75 | 1 | 5 | < 0.1 | 9 |
| 83370 | 427 | 978 | 117 | 529 | 107 | 31.8 | 94.3 | 15.9 | 89.3 | 16.2 | 40.5 | 4.9 | 24.7 | 3.1 | 2.9 | 3 | < 0.1 | 6 |
| 83371 | 652 | 1680 | 212 | 896 | 146 | 36.1 | 92.7 | 12 | 56.2 | 8.8 | 18.6 | 2.03 | 10.2 | 1.36 | 3 | 5 | < 0.1 | 6 |
| 83372 | 530 | 1410 | 168 | 699 | 101 | 24.4 | 56 | 6.4 | 29.6 | 4.6 | 10 | 1.13 | 6.3 | 0.87 | 3.5 | 4 | < 0.1 | 9 |
| 83373 | 488 | 1290 | 151 | 635 | 88.8 | 20.7 | 47.9 | 5.3 | 24.4 | 3.7 | 8.7 | 1.01 | 5.7 | 0.81 | 3.3 | 4 | < 0.1 | 8 |
| 83374 | 584 | 1070 | 106 | 388 | 42.2 | 8.18 | 12.9 | 1.1 | 4.1 | 0.6 | 1.4 | 0.19 | 1.2 | 0.19 | 0.7 | 8 | < 0.1 | 13 |
| 83375 | 2.2 | 3.8 | 0.48 | 1.9 | 0.3 | 0.07 | 0.2 | < 0.1 | 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.04 | < 0.2 | 7 | < 0.1 | < 5 |
| 87401 | 8310 | 14400 | 1310 | 3970 | 344 | 64.3 | 82.6 | 8.5 | 43.8 | 8.4 | 19.1 | 2.06 | 8.5 | 1 | 1.7 | 254 | < 0.1 | 168 |
| 87402 | 143 | 312 | 51.8 | 402 | 213 | 60 | 176 | 18.5 | 69.8 | 9.7 | 19.8 | 1.93 | 10.3 | 1.3 | 3 | 14 | 0.1 | 412 |
| 87403 | 49.9 | 154 | 43.6 | 487 | 410 | 115 | 377 | 45.6 | 164 | 20.1 | 35.3 | 3.34 | 15.8 | 1.75 | 10.2 | 13 | 0.1 | 298 |
| 87404 | 36.7 | 91.7 | 18.9 | 172 | 116 | 40.8 | 119 | 15.3 | 66.7 | 9.3 | 17.9 | 1.81 | 8.8 | 1.03 | 6.2 | 20 | 0.7 | 191 |
| 87405 | 113 | 231 | 24.2 | 89.5 | 15.3 | 3.75 | 11.8 | 1.9 | 10.2 | 1.9 | 5.4 | 0.82 | 5.1 | 0.77 | 12.5 | 8 | < 0.1 | 13 |
| 87406 | 22.8 | 53.4 | 6.26 | 28.5 | 6.6 | 1.83 | 7.5 | 1.6 | 11.7 | 2.9 | 9.1 | 1.29 | 7 | 0.91 | 3.4 | 6 | < 0.1 | 6 |
| 87407 | 66.1 | 212 | 61.2 | 529 | 149 | 28 | 58.1 | 4.8 | 19.5 | 3 | 7.3 | 0.86 | 4.7 | 0.55 | 0.5 | 4 | < 0.1 | 59 |
| 87408 | 41.4 | 101 | 19.8 | 171 | 106 | 33.2 | 102 | 12.6 | 51.9 | 7.5 | 16.6 | 1.91 | 10.4 | 1.38 | 8.4 | 9 | 0.8 | 184 |
| 87409 | 39.1 | 127 | 51.6 | 611 | 275 | 59.5 | 139 | 12.4 | 45 | 6.3 | 13.9 | 1.71 | 10.5 | 1.36 | 1.1 | 2 | < 0.1 | 42 |
| 87410 | 72 | 204 | 41.2 | 357 | 232 | 70.6 | 198 | 25 | 98.7 | 13.8 | 27.6 | 2.94 | 15.4 | 1.89 | 5.1 | 9 | 0.5 | 315 |
| 87411 | 328 | 707 | 76 | 305 | 49.6 | 12.6 | 33.3 | 4.3 | 20.8 | 3.7 | 9.8 | 1.38 | 8.5 | 1.31 | 2.1 | 4 | < 0.1 | 10 |
| 87412 | 346 | 700 | 72.4 | 278 | 43.5 | 11.1 | 29.5 | 3.7 | 16.8 | 2.7 | 6.6 | 0.81 | 4.6 | 0.68 | 7.3 | 3 | < 0.1 | 18 |
| 87413 | 412 | 913 | 99 | 392 | 61.4 | 15 | 41.7 | 5.3 | 24.3 | 4.1 | 10.1 | 1.25 | 7.3 | 1.06 | 3.7 | 5 | < 0.1 | 12 |
| 87414 | 1690 | 3800 | 479 | 2220 | 340 | 62.9 | 139 | 11.8 | 45.5 | 7 | 16.2 | 2.07 | 11.2 | 1.41 | 1.5 | 2 | < 0.1 | 537 |
| 87415 | 3650 | 7120 | 563 | 1690 | 352 | 110 | 322 | 45.2 | 212 | 34.2 | 78.2 | 8.75 | 43.4 | 4.89 | 3.6 | 2 | < 0.1 | 203 |
| 87416 | 2140 | 4200 | 376 | 1290 | 170 | 39.7 | 102 | 11 | 47.7 | 7.5 | 17.6 | 2.13 | 11.9 | 1.64 | 1.3 | 89 | < 0.1 | 51 |
| 87417 | 359 | 738 | 77.3 | 299 | 46.6 | 12.1 | 32.4 | 4 | 17.9 | 2.9 | 6.9 | 0.8 | 4.5 | 0.63 | 4.6 | 1 | < 0.1 | 9 |
| 87418 | 6.7 | 15.3 | 1.7 | 7.6 | 2 | 0.7 | 2.2 | 0.4 | 2.4 | 0.5 | 1.4 | 0.21 | 1.4 | 0.24 | 1.3 | 2 | 0.1 | 5 |
| 87419 | 43.1 | 89.8 | 9.34 | 39.1 | 7.9 | 2.03 | 6.9 | 1.1 | 6.4 | 1.2 | 3.6 | 0.53 | 3.4 | 0.55 | 5.6 | 3 | 0.4 | 18 |
| 87420 | 23 | 49.9 | 5.26 | 21.7 | 4 | 1.25 | 3.2 | 0.5 | 2.5 | 0.5 | 1.3 | 0.18 | 1.1 | 0.16 | 2.5 | < 1 | 0.1 | 6 |
| 87421 | 559 | 1080 | 107 | 398 | 61.4 | 15.9 | 44.5 | 6 | 28.1 | 4.7 | 11.2 | 1.3 | 6.9 | 0.92 | 1.9 | 5 | < 0.1 | 20 |
| 87422 | 313 | 774 | 93.4 | 427 | 97.5 | 28.3 | 72.5 | 10.6 | 51.1 | 8.2 | 19.3 | 2.2 | 11.5 | 1.5 | 2.7 | 1 | < 0.1 | 11 |
| 87423 | 395 | 870 | 84.4 | 324 | 37.6 | 8.46 | 21.6 | 2.2 | 10.6 | 1.3 | 2.8 | 0.3 | 1.7 | 0.23 | 0.4 | < 1 | < 0.1 | < 5 |

Final Report
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| Analyte Symbol | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | W | Tl | Pb |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87424 | 3.2 | 6.8 | 0.67 | 2.5 | 0.4 | 0.14 | 0.4 | < 0.1 | 0.3 | < 0.1 | 0.2 | < 0.05 | 0.2 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 |
| 87425 | 372 | 802 | 93.3 | 374 | 67.1 | 18.8 | 47.9 | 6.3 | 30.6 | 5.3 | 13.2 | 1.66 | 9.2 | 1.3 | 6.8 | 7 | < 0.1 | 11 |
| 87426 | 107 | 202 | 20.6 | 77.6 | 11.3 | 2.64 | 7.3 | 1.1 | 6.7 | 1.4 | 4.1 | 0.66 | 4.1 | 0.66 | 5.4 | 9 | < 0.1 | 22 |
| 87427 | 217 | 566 | 67.9 | 285 | 47.5 | 12.1 | 32.3 | 4 | 17.8 | 2.9 | 6.9 | 0.86 | 4.9 | 0.71 | 1.3 | 5 | < 0.1 | 55 |
| 87428 | 243 | 631 | 77.8 | 352 | 82.9 | 27.6 | 89.5 | 16.2 | 96.3 | 17.3 | 40.7 | 5.15 | 28.4 | 3.83 | 2.4 | 8 | < 0.1 | 79 |
| 87429 | 3.9 | 8.3 | 0.8 | 3.1 | 0.5 | 0.13 | 0.4 | < 0.1 | 0.3 | < 0.1 | 0.2 | < 0.05 | 0.2 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 |
| 87430 | 286 | 722 | 84.8 | 359 | 59.9 | 15.1 | 39.3 | 4.9 | 21.3 | 3.3 | 7.5 | 0.87 | 4.8 | 0.68 | 1.9 | 2 | < 0.1 | 24 |
| 87431 | 438 | 1010 | 115 | 460 | 63.9 | 14.6 | 35.8 | 3.8 | 16.6 | 2.7 | 6.6 | 0.82 | 4.8 | 0.72 | 3.1 | 7 | 0.2 | 55 |
| 87432 | 131 | 281 | 30.3 | 118 | 19.5 | 5.25 | 14.7 | 2.1 | 10.1 | 1.7 | 4.1 | 0.51 | 3 | 0.49 | 23.5 | 5 | < 0.1 | 650 |
| 87433 | 231 | 590 | 69.6 | 296 | 55.5 | 15.9 | 46.8 | 6.6 | 32.8 | 5.3 | 12.2 | 1.45 | 7.9 | 1.09 | 2.5 | < 1 | < 0.1 | 61 |
| 87434 | 97.8 | 238 | 28.9 | 125 | 23.6 | 6.95 | 19 | 2.9 | 15.5 | 2.8 | 7.5 | 1.02 | 5.8 | 0.83 | 5.4 | < 1 | < 0.1 | 58 |
| 87435 | 247 | 778 | 86.1 | 336 | 44 | 12 | 24.2 | 3.2 | 15.3 | 2.5 | 5.9 | 0.72 | 4 | 0.54 | 15.6 | 17 | < 0.1 | 132 |
| 87436 | 47.2 | 104 | 11.2 | 48.8 | 11.4 | 3.24 | 10.7 | 2 | 11.7 | 2.4 | 6.9 | 1.05 | 6.8 | 1 | 4.8 | 1 | < 0.1 | 38 |
| 87437 | 309 | 821 | 99.8 | 423 | 69.7 | 17.1 | 45.3 | 5.1 | 20.7 | 2.9 | 6.1 | 0.63 | 3.3 | 0.43 | 13.1 | 4 | < 0.1 | 756 |
| 87438 | 21.8 | 47.1 | 5.07 | 21.6 | 4.5 | 1.56 | 4.2 | 0.6 | 3.6 | 0.7 | 1.9 | 0.27 | 1.8 | 0.3 | 2.6 | 11 | < 0.1 | 11 |
| 87439 | 190 | 392 | 42.2 | 174 | 38.7 | 12.1 | 41.4 | 6.8 | 37.8 | 6.8 | 16 | 1.87 | 9.3 | 1.21 | 3.1 | 2 | < 0.1 | 17 |
| 87440 | 218 | 622 | 72.8 | 298 | 48 | 12.7 | 31.8 | 4.2 | 19.7 | 3.4 | 8.4 | 1.03 | 5.7 | 0.76 | 1.4 | 10 | < 0.1 | 22 |
| 87441 | 693 | 2180 | 200 | 813 | 123 | 32.8 | 87.5 | 12.2 | 60 | 9.9 | 22.7 | 2.37 | 11.4 | 1.46 | 2.2 | 5 | < 0.1 | 21 |
| 87442 | 356 | 991 | 109 | 457 | 63.1 | 15 | 39.7 | 5.1 | 24.8 | 4.1 | 9.4 | 1.03 | 5.2 | 0.71 | 1.8 | 3 | < 0.1 | 18 |
| 87443 | 358 | 867 | 89 | 361 | 52.1 | 13.8 | 38 | 5.6 | 29.1 | 5.2 | 12.5 | 1.49 | 7.9 | 1.12 | 1 | < 1 | < 0.1 | < 5 |
| 87444 | 466 | 980 | 92.8 | 350 | 44.1 | 11.1 | 32 | 4.6 | 23.7 | 4.2 | 10.3 | 1.33 | 7.8 | 1.17 | 0.7 | < 1 | < 0.1 | < 5 |
| 87445 | 268 | 680 | 78 | 314 | 64.5 | 23.1 | 76.2 | 14.9 | 87.1 | 14.6 | 32.9 | 3.84 | 18.8 | 2.31 | 1.5 | < 1 | < 0.1 | < 5 |
| 87446 | 946 | 2080 | 205 | 786 | 82.4 | 16.1 | 36 | 2.4 | 7.3 | 0.9 | 2.1 | 0.28 | 1.8 | 0.27 | 0.3 | < 1 | < 0.1 | < 5 |
| 87447 | 734 | 1820 | 183 | 741 | 99.6 | 23.3 | 58.9 | 6.1 | 23.2 | 3.3 | 7 | 0.8 | 4.3 | 0.61 | 2 | 2 | 0.1 | 8 |
| 87448 | 113 | 202 | 19.6 | 70.3 | 10.4 | 2.81 | 8 | 1.1 | 5.6 | 1 | 2.4 | 0.31 | 1.8 | 0.26 | 0.7 | 8 | < 0.1 | 29 |
| 87449 | 153 | 378 | 43.1 | 172 | 24.2 | 5.5 | 14.3 | 1.5 | 6.8 | 1.1 | 2.5 | 0.31 | 1.8 | 0.28 | 8.2 | < 1 | < 0.1 | 72 |
| 87450 | 540 | 1050 | 101 | 334 | 31.7 | 6.01 | 14.7 | 1.2 | 4.7 | 0.8 | 2 | 0.28 | 1.7 | 0.26 | 5.5 | 6 | < 0.1 | 24 |
| 87451 | 12.5 | 28.9 | 3.12 | 13.4 | 2.8 | 0.81 | 2.4 | 0.4 | 2.4 | 0.5 | 1.7 | 0.29 | 2 | 0.32 | 1.4 | 7 | < 0.1 | < 5 |
| 87452 | 858 | 1520 | 153 | 560 | 74.5 | 17 | 45.9 | 5.2 | 24.3 | 3.9 | 8.7 | 1.06 | 6 | 0.84 | 1.3 | 3 | < 0.1 | 10 |
| 87453 | 418 | 1010 | 113 | 446 | 73.1 | 21.1 | 60.9 | 10.1 | 54.1 | 9.3 | 20.4 | 2.24 | 10.6 | 1.34 | 4 | 7 | < 0.1 | 10 |
| 87454 | 753 | 1830 | 206 | 811 | 115 | 27.5 | 69.9 | 7.8 | 35.1 | 5.5 | 13.8 | 1.56 | 9 | 1.33 | 2.2 | 9 | < 0.1 | 22 |
| 87455 | 208 | 417 | 48.9 | 175 | 27.2 | 6.99 | 19.8 | 2.8 | 13.8 | 2.4 | 6.1 | 0.83 | 5 | 0.75 | 1.1 | 6 | < 0.1 | < 5 |
| 87456 | 899 | 1680 | 179 | 719 | 135 | 33.7 | 89.3 | 11.9 | 66.8 | 14.1 | 42.7 | 6.38 | 40.3 | 5.88 | 2.9 | 5 | < 0.1 | 16 |
| 87457 | 331 | 795 | 97.3 | 352 | 49.9 | 12.3 | 30.4 | 3.6 | 16.5 | 2.7 | 6.3 | 0.81 | 4.6 | 0.67 | 1.4 | < 1 | < 0.1 | 9 |
| 87458 | 385 | 914 | 110 | 395 | 61.2 | 16.7 | 45 | 6.9 | 34.6 | 5.6 | 12.4 | 1.43 | 7.6 | 1.01 | 1.4 | 1 | < 0.1 | < 5 |
| 87459 | 493 | 1220 | 139 | 552 | 77 | 18.4 | 46 | 4.8 | 20.4 | 3 | 6.4 | 0.73 | 3.9 | 0.51 | 1.5 | 44 | < 0.1 | < 5 |
| 87460 | 388 | 1040 | 123 | 496 | 73 | 17.5 | 44.8 | 5.2 | 23 | 3.6 | 8.1 | 0.95 | 5.3 | 0.74 | 2.9 | 2 | < 0.1 | 14 |
| 87461 | 818 | 2040 | 231 | 904 | 142 | 36.2 | 94.3 | 11.4 | 58.1 | 9.2 | 20.9 | 2.19 | 11 | 1.41 | 5.2 | 6 | < 0.1 | 16 |
| 87462 | 140 | 300 | 36.2 | 129 | 20.4 | 5.51 | 15 | 2.1 | 9.6 | 1.5 | 3.3 | 0.37 | 2.1 | 0.31 | 0.7 | 3 | < 0.1 | 32 |
| 87463 | 207 | 478 | 64 | 259 | 57 | 16.8 | 45.1 | 6.4 | 28.1 | 4.2 | 8.6 | 0.88 | 4.2 | 0.5 | 1.1 | < 1 | < 0.1 | 13 |
| 87464 | 420 | 972 | 136 | 590 | 136 | 35.8 | 79.4 | 7.7 | 26.4 | 3.4 | 7.7 | 1.05 | 7 | 1.09 | 1.1 | 3 | < 0.1 | 15 |
| 87465 | 647 | 2140 | 253 | 1040 | 159 | 37.7 | 89.4 | 10.1 | 43.7 | 6.4 | 13.8 | 1.52 | 7.9 | 1.02 | 1.4 | < 1 | < 0.1 | 214 |
| 87466 | 1170 | 2930 | 347 | 1330 | 147 | 29.1 | 62.7 | 3.9 | 12.4 | 1.4 | 2.9 | 0.38 | 2.6 | 0.4 | 1.7 | 1 | < 0.1 | < 5 |
| 87467 | 221 | 526 | 66.7 | 244 | 37.8 | 9.72 | 24.2 | 3.2 | 14.9 | 2.6 | 6.6 | 0.87 | 5.3 | 0.8 | 0.5 | < 1 | < 0.1 | < 5 |
| 87468 | 441 | 988 | 127 | 482 | 77.1 | 19.5 | 50.8 | 6.2 | 27.8 | 4.4 | 10.1 | 1.15 | 6.2 | 0.86 | 7.4 | < 1 | < 0.1 | 181 |
| 87469 | 214 | 520 | 70.3 | 273 | 45.8 | 11.8 | 30.7 | 3.7 | 16.6 | 2.6 | 6.1 | 0.67 | 3.6 | 0.49 | 0.8 | 2 | < 0.1 | < 5 |
| 87470 | 410 | 941 | 105 | 402 | 57.1 | 13.6 | 34.6 | 4 | 18.3 | 2.9 | 6.9 | 0.85 | 4.9 | 0.71 | 0.8 | 1 | < 0.1 | < 5 |
| 87471 | 168 | 371 | 47.4 | 180 | 31.5 | 8.46 | 21.6 | 2.8 | 12.2 | 1.9 | 4.6 | 0.6 | 3.6 | 0.56 | 0.9 | 2 | < 0.1 | 5 |
| 87472 | 271 | 699 | 99 | 400 | 68.3 | 16.7 | 43.9 | 5.1 | 21.6 | 3.2 | 6.3 | 0.66 | 3.3 | 0.41 | 4.3 | 2 | < 0.1 | 47 |

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| Analyte Symbol | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | W | Tl | Pb |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87473 | 1110 | 2060 | 216 | 797 | 104 | 22.1 | 51.5 | 4.3 | 17.2 | 2.6 | 6 | 0.77 | 4.7 | 0.68 | 1.2 | 9 | 0.1 | 1740 |
| 87474 | 49.9 | 107 | 12.5 | 48 | 8.7 | 2.26 | 6.5 | 1 | 5.2 | 1 | 2.8 | 0.4 | 2.6 | 0.38 | 5.4 | 11 | < 0.1 | 154 |
| 87475 | 562 | 1100 | 133 | 479 | 74.2 | 18.8 | 49.1 | 6.4 | 30.4 | 5 | 11.9 | 1.38 | 7.2 | 0.91 | 3.5 | 7 | < 0.1 | 80 |
| 87476 | 532 | 1210 | 138 | 531 | 74.7 | 18.3 | 46.9 | 5.6 | 26.1 | 4.3 | 10.5 | 1.26 | 6.9 | 1 | 1.1 | 2 | < 0.1 | < 5 |
| 87477 | 429 | 1110 | 133 | 544 | 80.9 | 20.1 | 51.2 | 6 | 27.2 | 4.4 | 10.2 | 1.25 | 7.2 | 1.03 | 1.6 | 3 | < 0.1 | 7 |
| 87478 | 320 | 798 | 95.9 | 342 | 47.6 | 11.3 | 27.3 | 3.2 | 15.2 | 2.5 | 6.5 | 0.87 | 5.3 | 0.8 | 1.8 | 2 | < 0.1 | < 5 |
| 87479 | 404 | 1030 | 119 | 477 | 70.2 | 17 | 44.9 | 5.5 | 25.6 | 4 | 8.8 | 1 | 5.3 | 0.72 | 1.6 | 3 | < 0.1 | < 5 |
| 87480 | 449 | 1180 | 142 | 584 | 86.5 | 20.8 | 53 | 6 | 26.4 | 4 | 8.7 | 1 | 5.5 | 0.76 | 2 | 4 | < 0.1 | 64 |
| 87481 | 78.7 | 165 | 19 | 68.8 | 9.8 | 2.06 | 4.7 | 0.5 | 2.3 | 0.4 | 1 | 0.14 | 0.9 | 0.16 | 4.1 | 3 | < 0.1 | 16 |
| 87482 | 373 | 752 | 88.1 | 303 | 42 | 10.2 | 23.9 | 2.6 | 11.5 | 1.8 | 4.5 | 0.6 | 3.8 | 0.57 | 0.5 | 1 | < 0.1 | < 5 |
| 87483 | 718 | 2080 | 236 | 959 | 140 | 33.6 | 82.1 | 9.3 | 40.9 | 6.1 | 13.1 | 1.49 | 8.1 | 1.11 | 2.5 | 10 | < 0.1 | 77 |
| 87484 | 449 | 1110 | 136 | 558 | 80.2 | 19.5 | 49.9 | 5.7 | 25.3 | 4 | 9.2 | 1.11 | 6.3 | 0.92 | 1.4 | 3 | < 0.1 | < 5 |
| 87485 | 378 | 968 | 129 | 492 | 74.9 | 18.5 | 47.6 | 6.3 | 29.8 | 4.8 | 10.9 | 1.26 | 6.7 | 0.92 | 1.7 | 6 | < 0.1 | 9 |
| 87486 | 352 | 971 | 123 | 461 | 70.9 | 17.6 | 42.6 | 5.3 | 24.1 | 3.9 | 8.9 | 1.08 | 6 | 0.86 | 2.5 | 4 | < 0.1 | 7 |
| 87487 | 5.1 | 12.3 | 1.32 | 4.8 | 0.8 | 0.17 | 0.4 | < 0.1 | 0.3 | < 0.1 | 0.1 | < 0.05 | < 0.1 | < 0.04 | < 0.2 | 1 | < 0.1 | < 5 |
| 87488 | 482 | 1050 | 112 | 450 | 88.3 | 25.9 | 70.1 | 10.1 | 52.9 | 9.9 | 25.8 | 3.41 | 19.5 | 2.68 | 17.3 | 5 | < 0.1 | 9 |
| 87489 | 3000 | 6250 | 711 | 2560 | 375 | 86 | 204 | 21.2 | 88.4 | 13.5 | 32.2 | 3.89 | 22.8 | 3.35 | 1.4 | 3 | < 0.1 | 44 |
| 87490 | 5100 | 8200 | 722 | 2000 | 220 | 51.8 | 143 | 13.8 | 56.9 | 8.6 | 19.2 | 2.34 | 12.8 | 1.73 | 0.8 | 5 | < 0.1 | 9 |
| 87491 | 3840 | 7060 | 728 | 2530 | 422 | 94.1 | 227 | 22.3 | 89.1 | 12.2 | 25.1 | 2.75 | 14.3 | 1.78 | 1.3 | 4 | < 0.1 | 49 |
| 87492 | 390 | 970 | 119 | 494 | 75.9 | 19 | 49.2 | 5.9 | 26.9 | 4.3 | 10.6 | 1.22 | 6.9 | 0.99 | 0.9 | < 1 | < 0.1 | < 5 |
| 87493 | 683 | 1650 | 199 | 807 | 122 | 29.4 | 75.8 | 9.1 | 42 | 6.8 | 16 | 1.88 | 10.2 | 1.38 | 1.2 | 2 | < 0.1 | 7 |
| 87494 | 4350 | 7970 | 789 | 2650 | 351 | 80.8 | 190 | 20.3 | 85.9 | 12.3 | 26.9 | 3.1 | 17.3 | 2.41 | 1.5 | 8 | 0.1 | 45 |
| 87495 | 3390 | 7550 | 857 | 3030 | 422 | 97.6 | 234 | 29.1 | 121 | 17.5 | 37.1 | 4.1 | 22.2 | 3.05 | 2 | 11 | 0.4 | 116 |
| 87496 | 166 | 364 | 46.9 | 179 | 28.8 | 7.36 | 18.1 | 2.2 | 9.9 | 1.6 | 3.7 | 0.44 | 2.3 | 0.32 | 1.3 | < 1 | < 0.1 | 7 |
| 87497 | 356 | 814 | 102 | 383 | 63.5 | 16.6 | 41.4 | 5.4 | 25.7 | 4.2 | 10.2 | 1.24 | 6.6 | 0.95 | 1.2 | < 1 | < 0.1 | 107 |
| 87498 | 630 | 1400 | 170 | 616 | 85.1 | 19.7 | 44.2 | 5.1 | 21.6 | 3.2 | 7.6 | 0.93 | 5.3 | 0.77 | 0.9 | 2 | < 0.1 | 10 |
| 87499 | 1250 | 2800 | 310 | 1240 | 188 | 46.6 | 109 | 12.7 | 55.6 | 8.5 | 19.5 | 2.34 | 13.4 | 1.94 | 1.5 | 3 | < 0.1 | 165 |
| 87500 | 403 | 868 | 104 | 374 | 56.8 | 15.6 | 36.7 | 4.7 | 23.1 | 3.8 | 9.2 | 1.14 | 6.3 | 0.91 | 1.6 | 4 | < 0.1 | 94 |
| 87601 | 415 | 834 | 95.1 | 327 | 44.8 | 11 | 25.6 | 3.2 | 15 | 2.4 | 5.9 | 0.72 | 4 | 0.58 | 1.9 | 2 | < 0.1 | 30 |
| 87602 | 158 | 332 | 41.3 | 157 | 26.6 | 6.99 | 18.6 | 2.6 | 12.8 | 2.1 | 5 | 0.62 | 3.5 | 0.52 | 3.5 | 2 | 0.7 | 175 |
| 87603 | 645 | 1710 | 220 | 1010 | 189 | 50.7 | 136 | 18.3 | 82.6 | 13.1 | 29 | 3.16 | 15.6 | 1.95 | 2.2 | 4 | < 0.1 | 150 |
| 87604 | 315 | 625 | 72.4 | 250 | 29.5 | 6.57 | 13.3 | 1.2 | 4.8 | 0.7 | 1.9 | 0.26 | 1.5 | 0.23 | 0.5 | 2 | 0.4 | 14 |
| 87605 | 753 | 1480 | 164 | 551 | 62 | 12.6 | 24.4 | 2.4 | 11 | 1.9 | 4.9 | 0.67 | 4.1 | 0.65 | 5.7 | 1 | 0.6 | 8 |
| 87606 | 10.5 | 22.6 | 2.61 | 10.3 | 1.9 | 0.77 | 1.3 | 0.2 | 1.1 | 0.2 | 0.6 | 0.09 | 0.6 | 0.12 | 7 | < 1 | < 0.1 | 183 |
| 87607 | 352 | 678 | 77.7 | 276 | 43.3 | 10.9 | 27.5 | 3.5 | 17.5 | 3.2 | 9.1 | 1.3 | 7.4 | 0.99 | 2.1 | 5 | 0.1 | 33 |
| 87608 | 96.1 | 208 | 24.2 | 95.6 | 18.9 | 5.31 | 14.6 | 2.1 | 11.2 | 2 | 4.9 | 0.64 | 3.4 | 0.5 | 9.8 | 3 | < 0.1 | 33 |
| 87609 | 700 | 1490 | 179 | 642 | 90 | 21.4 | 48.5 | 5.7 | 26.6 | 4.1 | 9.6 | 1.18 | 6.6 | 0.92 | 4.2 | < 1 | 0.1 | 40 |
| 87610 | 29.3 | 69.6 | 8.68 | 37.1 | 8.2 | 2.88 | 7 | 1 | 5.9 | 1 | 2.7 | 0.36 | 2.1 | 0.32 | 4.6 | 1 | < 0.1 | < 5 |
| 87611 | 54.4 | 114 | 11.9 | 41.6 | 6.4 | 1.4 | 3.5 | 0.4 | 1.7 | 0.2 | 0.5 | 0.06 | 0.4 | 0.06 | 2.8 | < 1 | 0.6 | 68 |
| 87612 | 6100 | 7850 | 553 | 1470 | 131 | 32.9 | 93.3 | 10.4 | 45.1 | 6.9 | 16 | 1.77 | 8.5 | 1.07 | 0.9 | 2 | 0.1 | 125 |
| 87613 | 239 | 887 | 175 | 843 | 127 | 25.3 | 46.1 | 4.7 | 17.7 | 2.5 | 5.4 | 0.62 | 3.4 | 0.46 | 2.7 | 2 | 0.3 | 272 |
| 87614 | 6240 | 8340 | 582 | 1490 | 136 | 37.6 | 114 | 14.6 | 67 | 10.4 | 21.4 | 2.13 | 8.9 | 0.85 | 1 | 1 | < 0.1 | 124 |
| 87615 | 1300 | 3360 | 440 | 1930 | 320 | 71.1 | 173 | 22.8 | 103 | 18.2 | 49.9 | 7.2 | 45.2 | 6.83 | 1.3 | 2 | 0.1 | 554 |
| 87616 | 287 | 586 | 74.1 | 286 | 49.1 | 12.5 | 29.7 | 3.9 | 18.2 | 3 | 7.4 | 0.91 | 5 | 0.71 | 3.3 | 2 | 0.2 | 30 |
| 87617 | 3720 | 6050 | 490 | 1430 | 167 | 48.7 | 139 | 19.6 | 95.6 | 14.6 | 30.7 | 2.92 | 12.3 | 1.38 | 1.5 | 4 | < 0.1 | 363 |
| 87618 | 3450 | 6020 | 496 | 1420 | 120 | 25.5 | 61.9 | 6.7 | 29.5 | 4.7 | 10.4 | 1.16 | 5.4 | 0.69 | 0.6 | 2 | < 0.1 | 157 |
| 87619 | 1660 | 4210 | 508 | 2180 | 333 | 75.3 | 155 | 15.8 | 54.6 | 7.2 | 14.3 | 1.59 | 9.1 | 1.22 | 1.1 | < 1 | 0.1 | 20 |
| 87620 | 4500 | 8420 | 828 | 2750 | 484 | 133 | 351 | 43.6 | 193 | 28.5 | 59.9 | 6.68 | 34.1 | 4.35 | 2.5 | 7 | < 0.1 | 267 |
| 87621 | 4580 | 8410 | 811 | 2590 | 329 | 70.8 | 166 | 20.6 | 90.8 | 13.6 | 31.8 | 3.54 | 18.2 | 2.31 | 1.5 | 14 | < 0.1 | 342 |

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 Report Date: 9/2

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| Analyte Symbol | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | Hf | W | Tl | Pb |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87622 | 14.4 | 27 | 2.67 | 8.7 | 1.2 | 0.28 | 0.7 | < 0.1 | 0.4 | < 0.1 | 0.1 | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 |
| 87623 | 61.8 | 119 | 13.2 | 48.9 | 8.7 | 2.38 | 6.6 | 1 | 5.5 | 1 | 2.7 | 0.37 | 2.4 | 0.39 | 5 | 2 | < 0.1 | 8 |
| 87624 | 19.1 | 39.4 | 4.36 | 16.8 | 3.4 | 1.01 | 3.1 | 0.5 | 3.4 | 0.7 | 1.9 | 0.29 | 1.8 | 0.3 | 1.7 | 1 | < 0.1 | 8 |
| 87625 | 104 | 233 | 28 | 112 | 18.5 | 5.31 | 12.1 | 1.6 | 7.5 | 1.3 | 3.1 | 0.39 | 2.3 | 0.32 | 11.1 | < 1 | < 0.1 | 6 |
| 87626 | 1110 | 2690 | 284 | 1110 | 152 | 37.6 | 92.7 | 12.2 | 60.9 | 10.3 | 25.5 | 3.14 | 17.6 | 2.52 | 6.1 | 14 | 1 | 238 |
| 87627 | 413 | 1190 | 150 | 566 | 82.5 | 19.5 | 43.3 | 5.2 | 22.3 | 3.4 | 7.6 | 0.89 | 4.7 | 0.64 | 1.3 | < 1 | 0.1 | 119 |
| 87628 | 512 | 1640 | 177 | 657 | 100 | 25.2 | 59.1 | 7.8 | 39 | 6.9 | 18.8 | 2.65 | 15.4 | 2.1 | 4 | 6 | 0.4 | 49 |

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Activation Laboratories

| Analyte Symbol | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 83301 | 536 | 0.2 | 0.004 | 0.13 |
| 83302 | 254 | 55 | 0.01 | 0.104 |
| 83303 | 22.3 | 0.7 | < 0.003 | 0.032 |
| 83304 | 88.9 | 5.3 | 0.003 | 0.091 |
| 83305 | 115 | 5.3 | < 0.003 | 0.057 |
| 83306 | 34.2 | 0.3 | < 0.003 | 0.031 |
| 83307 | 2.4 | 0.4 | 0.003 | 0.004 |
| 83308 | 3.3 | 0.6 | < 0.003 | 0.004 |
| 83309 | 2.6 | 0.4 | < 0.003 | 0.004 |
| 83310 | 2 | 0.3 | < 0.003 | 0.003 |
| 83311 | 4.8 | 0.4 | < 0.003 | 0.006 |
| 83312 | 2.4 | 0.4 | 0.004 | 0.006 |
| 83313 | 451 | 0.3 | < 0.003 | 0.085 |
| 83314 | 200 | 0.3 | < 0.003 | 0.08 |
| 83315 | 1310 | 0.2 | < 0.003 | 0.025 |
| 83316 | 948 | 0.2 | < 0.003 | 0.064 |
| 83317 | 841 | 0.1 | 0.003 | 0.078 |
| 83318 | 7.4 | 0.3 | < 0.003 | 0.025 |
| 83319 | 1.4 | 0.2 | 0.005 | < 0.003 |
| 83320 | 3.5 | 0.9 | < 0.003 | 0.004 |
| 83321 | 24.9 | 3.8 | 0.007 | 0.042 |
| 83322 | 1.5 | 0.2 | < 0.003 | < 0.003 |
| 83323 | 9.9 | 2.7 | 0.003 | 0.017 |
| 83324 | 13.4 | 3.9 | < 0.003 | 0.027 |
| 83325 | 2900 | 1.9 | < 0.003 | 0.016 |
| 83326 | 102 | 461 | 0.046 | 0.397 |
| 83327 | 105 | 1520 | 0.156 | 1.511 |
| 83328 | 534 | 2050 | 0.208 | 2.958 |
| 83329 | 165 | 1.2 | < 0.003 | 0.082 |
| 83330 | 54.5 | 0.9 | < 0.003 | 0.009 |
| 83331 | 69 | 0.6 | < 0.003 | 0.066 |
| 83332 | 880 | 0.4 | 0.004 | 0.081 |
| 83333 | 41.6 | 1.1 | < 0.003 | 0.102 |
| 83334 | 14.1 | 0.5 | < 0.003 | 0.009 |
| 83335 | 36.6 | 0.6 | < 0.003 | 0.01 |
| 83336 | 11.8 | 0.8 | < 0.003 | 0.172 |
| 83337 | 36 | 5.9 | 0.004 | 0.049 |
| 83338 | 51.9 | 0.5 | < 0.003 | < 0.003 |
| 83339 | 59 | 2.1 | 0.006 | 0.121 |
| 83340 | 30.8 | 25.4 | 0.007 | 0.077 |
| 83341 | 17.6 | 5.5 | < 0.003 | 0.005 |
| 83342 | 127 | 249 | 0.032 | 0.267 |
| 83343 | 59.2 | 5.4 | 0.005 | 0.108 |
| 83344 | 116 | 103 | 0.019 | 0.277 |
| 83345 | 46.5 | 238 | 0.029 | 0.192 |
| 83346 | 43.7 | 229 | 0.027 | 0.125 |
| 83347 | 52 | 204 | 0.025 | 0.153 |
| 83348 | 53 | 114 | 0.015 | 0.12 |
| 83349 | 0.2 | 0.1 | 0.003 | < 0.003 |

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Final Report
Activation Laboratories

| Analyte Symbol | Th | U | Ta2O5 | Nb2O5 |
|------------------------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 83350 | 24.3 | 317 | 0.037 | 0.195 |
| 83351 | 12.1 | 0.5 | < 0.003 | < 0.003 |
| 83352 | 30.3 | 4.6 | < 0.003 | 0.03 |
| 83353 | 33.2 | 7.4 | < 0.003 | 0.01 |
| 83354 | 166 | 475 | 0.089 | 1.029 |
| 83355 | 12.5 | 16.4 | < 0.003 | 0.014 |
| 83356 | 117 | 4.1 | < 0.003 | 0.05 |
| 83357 | 613 | 0.2 | 0.004 | 0.043 |
| 83358 | 250 | 11.6 | 0.003 | 0.398 |
| 83359 | 85.4 | 9.4 | < 0.003 | 0.221 |
| 83360 | 426 | 151 | 0.027 | 0.171 |
| 83361 | 332 | 85.5 | 0.018 | 0.232 |
| 83362 | 32.8 | 0.9 | < 0.003 | 0.056 |
| 83363 | 210 | 115 | 0.017 | 0.272 |
| 83364 | 38.2 | 6.9 | < 0.003 | 0.017 |
| 83365 | 626 | 67.2 | 0.014 | 0.39 |
| 83366 | 5.4 | 0.2 | < 0.003 | 0.024 |
| 83367 | 111 | 7.6 | 0.003 | 0.084 |
| 83368 | 45.8 | 178 | 0.028 | 0.144 |
| 83369 | 165 | 23.3 | < 0.003 | 0.047 |
| 83370 | 76.2 | 58 | 0.01 | 0.055 |
| 83371 | 570 | 85.6 | 0.026 | 0.307 |
| 83372 | 695 | 146 | 0.033 | 0.25 |
| 83373 | 596 | 103 | 0.028 | 0.221 |
| 83374 | 33.1 | 1 | < 0.003 | 0.076 |
| 83375 | 1.7 | 0.3 | < 0.003 | < 0.003 |
| 87401 | 728 | 0.2 | < 0.003 | 0.175 |
| 87402 | 819 | 0.2 | < 0.003 | 0.134 |
| 87403 | 756 | 0.2 | 0.004 | 0.348 |
| 87404 | 331 | 0.3 | 0.005 | 0.201 |
| 87405 | 13.6 | 1.2 | 0.003 | 0.024 |
| 87406 | 45.4 | 1 | < 0.003 | 0.009 |
| 87407 | 745 | 0.2 | < 0.003 | < 0.003 |
| 87408 | 295 | 0.3 | 0.004 | 0.14 |
| 87409 | 1200 | < 0.1 | < 0.003 | < 0.003 |
| 87410 | 963 | 0.2 | 0.004 | 0.121 |
| 87411 | 62.3 | 12.4 | < 0.003 | 0.016 |
| 87412 | 40.2 | 10.1 | < 0.003 | 0.044 |
| 87413 | 78.5 | 6.5 | 0.004 | 0.043 |
| 87414 | 2020 | 0.3 | < 0.003 | 0.008 |
| 87415 | 1210 | < 0.1 | < 0.003 | 0.056 |
| 87416 | 184 | 1.8 | < 0.003 | 0.029 |
| 87417 | 40 | 4.3 | 0.004 | 0.052 |
| 87418 | 1.9 | 0.1 | < 0.003 | < 0.003 |
| 87419 | 25.1 | 0.6 | < 0.003 | 0.004 |
| 87420 | 3.4 | 0.5 | < 0.003 | 0.005 |
| 87421 | 126 | 4 | < 0.003 | 0.041 |
| 87422 | 76.2 | 103 | 0.017 | 0.07 |
| 87423 | 16.2 | 1.6 | < 0.003 | 0.064 |

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Final Report
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| Analyte Symbol | Th | U | Ta2O5 | Nb2O5 |
|------------------------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87424 | 1 | 0.3 | < 0.003 | < 0.003 |
| 87425 | 148 | 15.8 | 0.006 | 0.697 |
| 87426 | 16.5 | 1.5 | < 0.003 | 0.037 |
| 87427 | 103 | 64.5 | 0.019 | 0.21 |
| 87428 | 265 | 21.4 | 0.003 | 0.287 |
| 87429 | 0.8 | 0.3 | < 0.003 | < 0.003 |
| 87430 | 139 | 46.5 | 0.008 | 0.195 |
| 87431 | 52.7 | 99.3 | 0.018 | 0.139 |
| 87432 | 69.4 | 366 | 0.037 | 0.393 |
| 87433 | 47.9 | 106 | 0.008 | 0.06 |
| 87434 | 56 | 343 | 0.041 | 0.192 |
| 87435 | 1110 | 670 | 0.101 | 4.229 |
| 87436 | 38.2 | 5.3 | < 0.003 | 0.003 |
| 87437 | 48.3 | 1080 | 0.119 | 0.553 |
| 87438 | 3.4 | 2.6 | 0.004 | 0.004 |
| 87439 | 56 | 3.8 | < 0.003 | 0.03 |
| 87440 | 205 | 20.2 | 0.007 | 0.353 |
| 87441 | 328 | 55.1 | 0.027 | 0.822 |
| 87442 | 204 | 226 | 0.024 | 0.222 |
| 87443 | 98.2 | 51.4 | 0.008 | 0.046 |
| 87444 | 90.9 | 4.4 | < 0.003 | 0.08 |
| 87445 | 184 | 7.9 | < 0.003 | 0.223 |
| 87446 | 89 | 2.7 | < 0.003 | 0.055 |
| 87447 | 302 | 22.5 | 0.005 | 0.742 |
| 87448 | 5.9 | 0.8 | < 0.003 | 0.028 |
| 87449 | 19 | 4.1 | < 0.003 | 0.035 |
| 87450 | 27.2 | 0.8 | < 0.003 | 0.019 |
| 87451 | 5.8 | 0.4 | < 0.003 | 0.004 |
| 87452 | 329 | 18.7 | 0.005 | 0.288 |
| 87453 | 115 | 39.7 | 0.01 | 0.352 |
| 87454 | 280 | 135 | 0.018 | 0.408 |
| 87455 | 32.2 | 15.5 | < 0.003 | 0.026 |
| 87456 | 418 | 0.7 | < 0.003 | 0.006 |
| 87457 | 203 | 42.5 | 0.006 | 0.215 |
| 87458 | 202 | 38.8 | 0.005 | 0.132 |
| 87459 | 193 | 2.9 | < 0.003 | 0.598 |
| 87460 | 803 | 28.3 | 0.01 | 0.716 |
| 87461 | 1680 | 16.5 | 0.008 | 1.608 |
| 87462 | 22.4 | 176 | 0.038 | 0.265 |
| 87463 | 69.9 | 17.1 | 0.003 | 0.348 |
| 87464 | 176 | 8.7 | < 0.003 | 0.182 |
| 87465 | 1420 | 9.9 | 0.012 | 2.416 |
| 87466 | 184 | 2.7 | < 0.003 | 0.041 |
| 87467 | 26.2 | 3.2 | < 0.003 | 0.115 |
| 87468 | 39.9 | 754 | 0.074 | 0.417 |
| 87469 | 13.8 | 29.3 | 0.007 | 0.179 |
| 87470 | 116 | 0.7 | < 0.003 | 0.247 |
| 87471 | 34 | 4.5 | < 0.003 | 0.114 |
| 87472 | 8.6 | 47.8 | 0.006 | 0.036 |

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Final Report
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| Analyte Symbol | Th | U | Ta2O5 | Nb2O5 |
|------------------------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87473 | 97.3 | 1.3 | < 0.003 | 0.023 |
| 87474 | 5.3 | 0.8 | < 0.003 | 0.009 |
| 87475 | 95.3 | 1.6 | 0.003 | 0.034 |
| 87476 | 105 | 58.1 | 0.008 | 0.037 |
| 87477 | 350 | 64.6 | 0.015 | 0.234 |
| 87478 | 138 | 10.9 | < 0.003 | 0.268 |
| 87479 | 236 | 20 | 0.005 | 0.288 |
| 87480 | 407 | 76.9 | 0.016 | 0.181 |
| 87481 | 8.4 | 0.7 | < 0.003 | 0.013 |
| 87482 | 51.3 | 2 | < 0.003 | 0.046 |
| 87483 | 679 | 237 | 0.036 | 1.214 |
| 87484 | 240 | 57.4 | 0.013 | 0.13 |
| 87485 | 209 | 24.1 | 0.012 | 0.109 |
| 87486 | 414 | 34 | 0.007 | 0.412 |
| 87487 | 2.8 | 0.4 | < 0.003 | < 0.003 |
| 87488 | 266 | 37.6 | 0.004 | 0.97 |
| 87489 | 529 | 0.4 | < 0.003 | 0.063 |
| 87490 | 317 | 0.1 | 0.003 | 0.027 |
| 87491 | 572 | 0.1 | 0.003 | 0.076 |
| 87492 | 170 | 40.1 | 0.005 | 0.07 |
| 87493 | 294 | 72.4 | 0.012 | 0.169 |
| 87494 | 279 | 0.6 | < 0.003 | 0.115 |
| 87495 | 752 | 0.8 | < 0.003 | 0.339 |
| 87496 | 35.4 | 3.9 | < 0.003 | 0.231 |
| 87497 | 40.4 | 186 | 0.018 | 0.233 |
| 87498 | 126 | 0.7 | < 0.003 | 0.163 |
| 87499 | 375 | 2.1 | 0.003 | 0.525 |
| 87500 | 43 | 207 | 0.021 | 0.14 |
| 87601 | 47.6 | 27.7 | 0.005 | 0.08 |
| 87602 | 70.3 | 160 | 0.024 | 0.173 |
| 87603 | 105 | 599 | 0.071 | 0.528 |
| 87604 | 55.6 | 3.4 | < 0.003 | 0.045 |
| 87605 | 63.8 | 1.6 | 0.003 | 0.038 |
| 87606 | 138 | 14.6 | < 0.003 | < 0.003 |
| 87607 | 81.6 | 12.5 | 0.003 | 0.035 |
| 87608 | 22.4 | 4.6 | < 0.003 | 0.043 |
| 87609 | 99 | 19.7 | 0.004 | 0.096 |
| 87610 | 3.3 | 0.6 | < 0.003 | 0.005 |
| 87611 | 27 | 2.4 | < 0.003 | 0.003 |
| 87612 | 239 | 0.2 | < 0.003 | 0.048 |
| 87613 | 311 | 0.4 | 0.004 | 0.025 |
| 87614 | 405 | 0.4 | < 0.003 | 0.007 |
| 87615 | 1590 | 0.1 | < 0.003 | 0.016 |
| 87616 | 109 | 3.8 | < 0.003 | 0.034 |
| 87617 | 629 | 0.2 | < 0.003 | 0.085 |
| 87618 | 168 | 0.3 | < 0.003 | 0.063 |
| 87619 | 244 | 0.1 | 0.003 | 0.006 |
| 87620 | 815 | 0.3 | < 0.003 | 0.072 |
| 87621 | 859 | 0.3 | < 0.003 | 0.225 |

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| Analyte Symbol | Th | U | Ta2O5 | Nb2O5 |
|------------------------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87622 | 2.9 | < 0.1 | < 0.003 | < 0.003 |
| 87623 | 8.7 | 1.7 | < 0.003 | 0.009 |
| 87624 | 3.1 | 0.6 | < 0.003 | < 0.003 |
| 87625 | 9 | 1.7 | < 0.003 | 0.013 |
| 87626 | 389 | 241 | 0.052 | 0.858 |
| 87627 | 426 | 88.9 | 0.012 | 0.382 |
| 87628 | 167 | 113 | 0.021 | 0.861 |

**Final Report
Activation Laboratories**

| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr |
|------------------|--------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 2 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP |
| WMG-1 Meas | | | | | | | | | | | | | | | | | |
| WMG-1 Cert | | | | | | | | | | | | | | | | | |
| DH-1a Meas | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | 11.39 | 1.91 | 0.75 | 0.009 | 0.35 | 43.27 | 0.89 | 0.55 | 0.117 | 30.17 | | | | | 1674 | |
| NIST 694 Cert | | 11.2 | 1.8 | 0.79 | 0.0116 | 0.33 | 43.6 | 0.86 | 0.51 | 0.11 | 30.2 | | | | | 1740 | |
| DNC-1 Meas | | 46.38 | 18.07 | 9.8 | 0.147 | 9.94 | 11.4 | 1.84 | 0.22 | 0.476 | 0.07 | | | 31 | | 158 | 136 |
| DNC-1 Cert | | 47.15 | 18.34 | 9.97 | 0.15 | 10.13 | 11.49 | 1.89 | 0.234 | 0.48 | 0.07 | | | 31 | | 148 | 144 |
| GBW 07113 Meas | | 71.08 | 12.83 | 3.21 | 0.14 | 0.13 | 0.56 | 2.56 | 5.55 | 0.276 | 0.04 | | | 4 | 4 | < 5 | 37 |
| GBW 07113 Cert | | 72.8 | 13 | 3.21 | 0.14 | 0.16 | 0.59 | 2.57 | 5.43 | 0.3 | 0.05 | | | 5 | 4 | 5 | 43 |
| MICA-FE Meas | | | | | | | | | | | | | | | | | |
| MICA-FE Cert | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | |
| NIST 1633b Meas | | 48.62 | 28.09 | 11.14 | 0.015 | 0.73 | 2.15 | 0.26 | 2.23 | 1.307 | 0.56 | | | 41 | | 308 | 1037 |
| NIST 1633b Cert | | 49.2 | 28.4 | 11.1 | 0.02 | 0.8 | 2.11 | 0.27 | 2.35 | 1.32 | 0.53 | | | 41 | | 296 | 1040 |
| OKA-2 Meas | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 52.61 | 15.39 | 10.66 | 0.168 | 6.22 | 10.87 | 2.25 | 0.62 | 1.071 | 0.14 | | | 35 | < 1 | 277 | 190 |
| W-2a Cert | | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.13 | | | 36 | 1.3 | 262 | 190 |
| SY-4 Meas | | 50.07 | 20.79 | 6.24 | 0.108 | 0.49 | 8.1 | 6.88 | 1.63 | 0.289 | 0.13 | | | < 1 | 3 | 6 | 1216 |
| SY-4 Cert | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.1 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8 | 1191 |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | |
| BIR-1a Meas | | 47.95 | 15.82 | 11.36 | 0.174 | 9.59 | 13.37 | 1.87 | 0.02 | 0.979 | 0.02 | | | 44 | < 1 | 339 | 105 |
| BIR-1a Cert | | 47.8 | 15.4 | 11.3 | 0.171 | 9.68 | 13.2 | 1.75 | 0.03 | 0.96 | 0.05 | | | 44 | 0.58 | 313 | 108 |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | |
| NCS DC86302 Meas | | 74.44 | 14.57 | 0.58 | 0.028 | 0.06 | 0.64 | 4.59 | 3.87 | 0.012 | 0.01 | | | | | 1309 | |
| NCS DC86302 Cert | | 73.99 | 14.86 | 0.593 | 0.036 | 0.069 | 0.584 | 4.67 | 3.89 | 0.016 | 0.013 | | | | | 1315 | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | |
| IGS 40 Meas | | | | | | | | | | | | | | | | | |
| IGS 40 Cert | | | | | | | | | | | | | | | | | |
| IGS 41 Meas | | | | | | 0.27 | | | | | 1.26 | | | | | | 19490 |
| IGS 41 Cert | | | | | | | | | | | | | | | | 19104 | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |

**Final Report
Activation Laboratories**

| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr |
|-----------------------------|--------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 2 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP |
| VWMS-1 Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410 | | | | | | | | | | | | | | | | |
| NCS DC86316 Meas | | 71.08 | 14.01 | 0.51 | 0.021 | 0.13 | 0.78 | 4.45 | 4.21 | 0.69 | 0.07 | | | | | | |
| NCS DC86316 Cert | | 70.73 | 14.57 | 0.38 | 0.021 | 0.079 | 0.63 | 4.2 | 3.9 | 0.64 | 0.04 | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | |
| JR-1 Cert | | | | | | | | | | | | | | | | | |
| NCS DC86318 Meas | | 66.33 | 13.75 | 2.33 | 0.055 | 0.08 | | 0.58 | 5.33 | 0.174 | < 0.01 | | | | | | |
| NCS DC86318 Cert | | 66.9 | 14.26 | 2.24 | 0.052 | 0.11 | | 0.66 | 5.52 | 0.17 | 0.02 | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | 4625 |
| SARM 3 Cert | | | | | | | | | | | | | | | | | 4565 |
| USZ 44-2007 Meas | | | | | | | | | | | | | | | | | |
| USZ 44-2007 Cert | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 534 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 439 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 529 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 469 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 441 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 468 | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | |
| 83310 Orig | < 5 | | | | | | | | | | | | | | | | |
| 83310 Dup | < 5 | | | | | | | | | | | | | | | | |
| 83315 Orig | | 6.07 | 0.05 | 41.14 | 3.305 | 5.71 | 9.33 | 0.01 | < 0.01 | 0.148 | 0.89 | 29.06 | 95.72 | 43 | 5 | 60 | 640 |
| 83315 Dup | | 6.12 | 0.05 | 41.59 | 3.301 | 5.75 | 9.36 | 0.01 | < 0.01 | 0.147 | 0.9 | 29.06 | 96.29 | 43 | 5 | 60 | 635 |
| 83316 Orig | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 2 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP |
| VWMS-1 Meas | | | | | | | | | | | | | | | | | |
| 83316 Dup | | | | | | | | | | | | | | | | | |
| 83320 Orig | < 5 | | | | | | | | | | | | | | | | |
| 83320 Dup | < 5 | | | | | | | | | | | | | | | | |
| 83332 Orig | | 2.65 | 0.1 | 20.65 | 2.422 | 8.88 | 26.42 | 0.02 | 0.02 | 0.351 | 1.33 | 29.29 | 92.15 | 74 | 12 | 108 | 1809 |
| 83332 Dup | | 2.63 | 0.1 | 20.62 | 2.419 | 8.91 | 26.42 | 0.02 | 0.02 | 0.352 | 1.33 | 29.29 | 92.12 | 74 | 13 | 107 | 1812 |
| 83342 Orig | | 6.92 | 2.05 | 7.39 | 0.316 | 10.09 | 32.45 | 0.1 | 1.56 | 0.074 | 10.88 | 26.96 | 98.78 | 27 | 2 | 105 | 1635 |
| 83342 Dup | | 6.93 | 2.05 | 7.54 | 0.322 | 10.21 | 33.47 | 0.1 | 1.27 | 0.077 | 10.96 | 26.96 | 99.89 | 28 | 2 | 101 | 1646 |
| 83345 Orig | < 5 | | | | | | | | | | | | | | | | |
| 83345 Dup | < 5 | | | | | | | | | | | | | | | | |
| 83351 Orig | < 5 | | | | | | | | | | | | | | | | |
| 83351 Split | < 5 | 39.18 | 9.01 | 15.06 | 0.147 | 7.67 | 9.05 | 1.41 | 2.77 | 1.058 | 0.11 | 15.18 | 100.7 | 23 | 1 | 131 | 263 |
| 83355 Orig | 8 | | | | | | | | | | | | | | | | |
| 83355 Dup | < 5 | | | | | | | | | | | | | | | | |
| 83357 Orig | | 0.32 | 0.22 | 10.03 | 1.143 | 14.17 | 27.85 | < 0.01 | < 0.01 | 0.237 | 0.32 | 41.67 | 95.97 | 46 | 20 | 138 | 2367 |
| 83357 Dup | | 0.33 | 0.22 | 10.12 | 1.156 | 14.48 | 28.04 | < 0.01 | < 0.01 | 0.235 | 0.33 | 41.67 | 96.6 | 47 | 20 | 140 | 2399 |
| 83358 Orig | | | | | | | | | | | | | | | | | |
| 83358 Dup | | | | | | | | | | | | | | | | | |
| 83365 Orig | < 5 | | | | | | | | | | | | | | | | |
| 83365 Dup | < 5 | | | | | | | | | | | | | | | | |
| 83374 Orig | | 7.02 | 1.92 | 9.49 | 0.946 | 13.82 | 26.75 | 0.07 | 0.94 | 0.061 | 0.17 | 38.61 | 99.78 | 17 | 1 | 87 | 1654 |
| 83374 Dup | | 6.97 | 1.91 | 9.52 | 0.949 | 13.97 | 26.79 | 0.07 | 0.91 | 0.06 | 0.13 | 38.61 | 99.88 | 17 | 1 | 89 | 1667 |
| 87405 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87405 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87409 Orig | | 2.66 | 0.82 | 42.6 | 2.578 | 6.09 | 10.73 | 0.03 | 0.32 | 0.037 | 0.09 | 31.84 | 97.79 | 35 | 60 | 43 | 449 |
| 87409 Dup | | 2.65 | 0.81 | 42.7 | 2.587 | 6.08 | 10.77 | 0.03 | 0.3 | 0.036 | 0.1 | 31.84 | 97.92 | 35 | 61 | 45 | 448 |
| 87415 Orig | 11 | | | | | | | | | | | | | | | | |
| 87415 Split | 15 | | | | | | | | | | | | | | | | |
| 87416 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87416 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87424 Orig | | 95.15 | 0.14 | 0.73 | 0.01 | 0.12 | 1.17 | 0.02 | 0.01 | 0.011 | 0.03 | 1.01 | 98.4 | < 1 | < 1 | < 5 | 21 |
| 87424 Dup | | 96.78 | 0.14 | 0.71 | 0.01 | 0.12 | 1.14 | 0.02 | < 0.01 | 0.01 | 0.03 | 1.01 | 99.98 | < 1 | < 1 | < 5 | 19 |
| 87426 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87426 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87440 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87440 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87441 Orig | | 0.93 | 0.21 | 10.98 | 0.755 | 9.67 | 33.31 | 0.04 | 0.05 | 0.191 | 12.39 | 23.3 | 91.82 | 10 | < 1 | 117 | 2398 |
| 87441 Dup | | 0.91 | 0.21 | 11.04 | 0.764 | 9.73 | 34.02 | 0.04 | 0.04 | 0.192 | 12.28 | 23.3 | 92.52 | 10 | < 1 | 116 | 2410 |
| 87445 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87445 Split | < 5 | | | | | | | | | | | | | | | | |
| 87450 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87450 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87451 Orig | | 14.58 | 4.12 | 3.96 | 0.109 | 14.51 | 23.88 | 1.73 | 0.2 | 1.142 | 0.07 | 35.76 | 100.1 | 16 | < 1 | 85 | 218 |
| 87451 Dup | | 14.72 | 4.22 | 4.02 | 0.11 | 14.76 | 24.14 | 1.74 | 0.2 | 1.169 | 0.08 | 35.76 | 100.9 | 17 | < 1 | 85 | 221 |
| 87460 Orig | < 5 | | | | | | | | | | | | | | | | |
| 87460 Dup | < 5 | | | | | | | | | | | | | | | | |
| 87466 Orig | | 2.11 | 0.34 | 20.38 | 1.372 | 10.95 | 24.26 | < 0.01 | 0.18 | 0.103 | 1.88 | 36.33 | 97.92 | 21 | 2 | 93 | 1359 |
| 87466 Dup | | 2.12 | 0.34 | 20.44 | 1.369 | 11.06 | 24.1 | < 0.01 | 0.17 | 0.105 | 1.84 | 36.33 | 97.88 | 21 | 2 | 95 | 1358 |
| 87467 Orig | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | Y | Zr | Ba | Ta2O5 | Nb2O5 | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | Mo | Ag | In |
|------------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 4 | 3 | 0.003 | 0.003 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-XRF | FUS-XRF | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| WMG-1 Meas | | | | | | 760 | 207 | 2620 | 6170 | 110 | 10 | | 9 | | < 2 | 1.8 | |
| WMG-1 Cert | | | | | | 770 | 200 | 2700 | 5900 | 110 | 10.3 | | 7 | | 1.4 | 2.7 | |
| DH-1a Meas | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | 0.291 | | | | | | | | | | 2690 | | | |
| TAN-1 Cert | | | | 0.288 | | | | | | | | | | 2700 | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | 15 | 35 | 102 | | | 270 | 58 | 250 | 100 | 50 | | | | | | | |
| DNC-1 Cert | 18 | 38 | 118 | | | 270 | 57 | 247 | 100 | 70 | | | | | | | |
| GBW 07113 Meas | 44 | 408 | 485 | | | | | | | | | | | | | | |
| GBW 07113 Cert | 43 | 403 | 506 | | | | | | | | | | | | | | |
| MICA-FE Meas | | | | 0.005 | 0.044 | | | | | | | | | | | | |
| MICA-FE Cert | | | | 0.004 | 0.039 | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | 70 | 28 | 50 | | | | | 26 | 65 | < 2 | 2.5 | |
| LKSD-3 Cert | | | | | | 87 | 30 | 47 | | | | | 27 | 78 | 2 | 2.7 | |
| NIST 1633b Meas | | | 696 | | | | | | | | | | | | | | |
| NIST 1633b Cert | | | 709 | | | | | | | | | | | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | 0.015 | | | | | | | | | | | | |
| AC-E Cert | | | | | 0.016 | | | | | | | | | | | | |
| OKA-1 Meas | | | | | 0.534 | | | | | | | | | | | | |
| OKA-1 Cert | | | | | 0.529 | | | | | | | | | | | | |
| W-2a Meas | 19 | 89 | 173 | | | 80 | 44 | 70 | 100 | 80 | 17 | 2 | < 5 | 18 | < 2 | < 0.5 | |
| W-2a Cert | 24 | 94 | 182 | | | 92 | 43 | 70 | 110 | 80 | 17 | 1 | 1.2 | 21 | 0.6 | 0.046 | |
| SY-4 Meas | 119 | 572 | 352 | | | | | | | | | | | | | | |
| SY-4 Cert | 119 | 517 | 340 | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | < 1 | | 60 | < 30 | | | | | | | |
| CTA-AC-1 Cert | | | | | | | 2.72 | | 54 | 38 | | | | | | | |
| BIR-1a Meas | 13 | 14 | 7 | | | 370 | 53 | 170 | 120 | 60 | 15 | 2 | < 5 | < 2 | < 2 | < 0.5 | |
| BIR-1a Cert | 16 | 16 | 7 | | | 382 | 51.4 | 166 | 126 | 71 | 16 | 1.5 | 0.44 | 0.25 | 0.5 | 0.036 | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | 0.096 | 0.1 | | | | | | | | | | | | |
| VS-N Cert | | | | 0.098 | 0.1 | | | | | | | | | | | | |
| NCS DC86302 Meas | | | | | | | | | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | 26 | 70 | 2610 | 7400 | 25 | | | | 270 | 16.7 | |
| NCS DC70014 Cert | | | | | | | 26.2 | 70.9 | 2600 | 7400 | 25.2 | | | | 270 | 16.7 | |
| IGS 40 Meas | | | | | | | | | | | | | | | | | |
| IGS 40 Cert | | | | | | | | | | | | | | | | | |
| IGS 41 Meas | | | 14190 | | | | | | | | | | | | | | |
| IGS 41 Cert | | | 14145 | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | Y | Zr | Ba | Ta2O5 | Nb2O5 | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | Mo | Ag | In |
|-----------------------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 4 | 3 | 0.003 | 0.003 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-XRF | FUS-XRF | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWGC-1 Meas | | | | | | 760 | 207 | 2620 | 6170 | 110 | 10 | | 9 | | < 2 | 1.8 | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| NCS DC86316 Meas | | 32270 | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | 34666 | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | 30 | 4 | < 20 | 950 | 90 | 17 | 11 | 70 | 509 | | 1.9 | 1.3 |
| NCS DC70009 (GBW07241) Cert | | | | | | 30 | 3.7 | 2.8 | 960 | 100 | 16.5 | 11.2 | 69.9 | 500 | | 1.8 | 1.3 |
| OREAS 100a (Fusion) Meas | | | | | | | 17 | | 170 | | | | | | 23 | | |
| OREAS 100a (Fusion) Cert | | | | | | | 18.1 | | 169 | | | | | | 24.1 | | |
| OREAS 101a (Fusion) Meas | | | | | | | 48 | | 430 | | | | | | 20 | | |
| OREAS 101a (Fusion) Cert | | | | | | | 48.8 | | 434 | | | | | | 21.9 | | |
| JR-1 Meas | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | 17 | 3 | 18 | 243 | 3 | < 0.5 | < 0.2 |
| JR-1 Cert | | | | | | 2.83 | 0.83 | 1.67 | 2.68 | 30.6 | 16.1 | 1.88 | 16.3 | 257 | 3.25 | 0.031 | 0.028 |
| NCS DC86318 Meas | 17340 | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | 17010 | | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | 0.006 | 0.703 | | | | | | | | | | | | |
| SX18-01 Cert | | | | 0.005 | 0.695 | | | | | | | | | | | | |
| SX18-04 Meas | | | | < 0.003 | 1.356 | | | | | | | | | | | | |
| SX18-04 Cert | | | | 0.005 | 1.32 | | | | | | | | | | | | |
| SX18-05 Meas | | | | 0.004 | 0.982 | | | | | | | | | | | | |
| SX18-05 Cert | | | | 0.004 | 0.973 | | | | | | | | | | | | |
| SARM 3 Meas | | 11150 | | | | | | | | | | | | | | | |
| SARM 3 Cert | | 11119 | | | | | | | | | | | | | | | |
| USZ 44-2007 Meas | | 15720 | | | | | | | | | | | | | | | |
| USZ 44-2007 Cert | | 15800 | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | 0.37 | | | | | | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | 0.369 | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| 83310 Orig | | | | | | | | | | | | | | | | | |
| 83310 Dup | | | | | | | | | | | | | | | | | |
| 83315 Orig | 689 | 21 | 45 | | | 30 | 20 | < 20 | 20 | 1400 | 11 | 5 | 17 | < 2 | 4 | < 0.5 | 0.6 |
| 83315 Dup | 694 | 20 | 45 | | | 20 | 20 | < 20 | < 10 | 1380 | 11 | 5 | 17 | < 2 | 4 | < 0.5 | 0.6 |
| 83316 Orig | | | | 0.003 | 0.063 | | | | | | | | | | | | |

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| Analyte Symbol | Y | Zr | Ba | Ta2O5 | Nb2O5 | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | Mo | Ag | In |
|-----------------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 4 | 3 | 0.003 | 0.003 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-XRF | FUS-XRF | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWMS-1 Meas | | | | | | 760 | 207 | 2620 | 6170 | 110 | 10 | | 9 | | < 2 | 1.8 | |
| 83316 Dup | | | | < 0.003 | 0.065 | | | | | | | | | | | | |
| 83320 Orig | | | | | | | | | | | | | | | | | |
| 83320 Dup | | | | | | | | | | | | | | | | | |
| 83332 Orig | 275 | 50 | 255 | 0.004 | 0.081 | < 20 | 12 | < 20 | < 10 | 2970 | 27 | 6 | 21 | < 2 | 6 | < 0.5 | 0.3 |
| 83332 Dup | 276 | 50 | 256 | 0.003 | 0.08 | < 20 | 12 | < 20 | < 10 | 2940 | 27 | 5 | 21 | < 2 | 6 | < 0.5 | 0.3 |
| 83342 Orig | 183 | 157 | 275 | 0.032 | 0.265 | < 20 | 11 | 20 | 10 | 120 | 7 | 1 | 8 | 10 | 2 | 1 | < 0.2 |
| 83342 Dup | 185 | 156 | 276 | 0.032 | 0.269 | < 20 | 12 | 30 | 10 | 130 | 8 | 1 | 12 | 9 | 2 | 0.9 | < 0.2 |
| 83345 Orig | | | | | | | | | | | | | | | | | |
| 83345 Dup | | | | | | | | | | | | | | | | | |
| 83351 Orig | | | | < 0.003 | < 0.003 | | | | | | | | | | | | |
| 83351 Split | 22 | 91 | 173 | < 0.003 | 0.003 | | | | | | | | | | | | |
| 83355 Orig | | | | | | | | | | | | | | | | | |
| 83355 Dup | | | | | | | | | | | | | | | | | |
| 83357 Orig | 514 | 87 | 232 | | | < 20 | 6 | < 20 | 20 | 530 | 18 | 4 | 16 | < 2 | < 2 | 0.7 | < 0.2 |
| 83357 Dup | 527 | 92 | 238 | | | < 20 | 6 | < 20 | 20 | 520 | 18 | 4 | 15 | < 2 | < 2 | 0.7 | < 0.2 |
| 83358 Orig | | | | 0.003 | 0.402 | | | | | | | | | | | | |
| 83358 Dup | | | | 0.003 | 0.394 | | | | | | | | | | | | |
| 83365 Orig | | | | | | | | | | | | | | | | | |
| 83365 Dup | | | | | | | | | | | | | | | | | |
| 83374 Orig | 15 | 35 | 69 | < 0.003 | 0.076 | 30 | 11 | 20 | 20 | 290 | 6 | < 1 | < 5 | 7 | 12 | < 0.5 | < 0.2 |
| 83374 Dup | 15 | 37 | 69 | < 0.003 | 0.076 | 30 | 10 | < 20 | 60 | 310 | 6 | < 1 | < 5 | 7 | 12 | < 0.5 | < 0.2 |
| 87405 Orig | | | | | | | | | | | | | | | | | |
| 87405 Dup | | | | | | | | | | | | | | | | | |
| 87409 Orig | 215 | 32 | 170 | < 0.003 | < 0.003 | 30 | 22 | < 20 | 10 | 670 | 3 | 2 | < 5 | 6 | 7 | < 0.5 | 0.5 |
| 87409 Dup | 215 | 29 | 168 | < 0.003 | < 0.003 | 30 | 22 | < 20 | 10 | 670 | 3 | 1 | < 5 | 6 | 7 | < 0.5 | 0.5 |
| 87415 Orig | | | | < 0.003 | 0.056 | | | | | | | | | | | | |
| 87415 Split | | | | < 0.003 | 0.057 | | | | | | | | | | | | |
| 87416 Orig | | | | | | | | | | | | | | | | | |
| 87416 Dup | | | | | | | | | | | | | | | | | |
| 87424 Orig | < 2 | < 4 | < 3 | < 0.003 | < 0.003 | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | < 2 | < 0.5 | < 0.2 |
| 87424 Dup | < 2 | < 4 | < 3 | < 0.003 | < 0.003 | < 20 | < 1 | < 20 | 30 | < 30 | < 1 | < 1 | < 5 | < 2 | < 2 | < 0.5 | < 0.2 |
| 87426 Orig | | | | | | | | | | | | | | | | | |
| 87426 Dup | | | | | | | | | | | | | | | | | |
| 87440 Orig | | | | | | | | | | | | | | | | | |
| 87440 Dup | | | | | | | | | | | | | | | | | |
| 87441 Orig | 271 | 380 | 142 | 0.027 | 0.822 | < 20 | 11 | < 20 | 20 | 130 | 14 | 3 | 23 | < 2 | < 2 | 1.6 | < 0.2 |
| 87441 Dup | 272 | 388 | 140 | 0.026 | 0.821 | < 20 | 11 | < 20 | 20 | 140 | 14 | 3 | 24 | < 2 | < 2 | 1.6 | < 0.2 |
| 87445 Orig | | | | < 0.003 | 0.223 | | | | | | | | | | | | |
| 87445 Split | | | | 0.003 | 0.221 | | | | | | | | | | | | |
| 87450 Orig | | | | | | | | | | | | | | | | | |
| 87450 Dup | | | | | | | | | | | | | | | | | |
| 87451 Orig | 14 | 63 | 57 | < 0.003 | 0.004 | 300 | 9 | 50 | < 10 | < 30 | 4 | < 1 | < 5 | 3 | < 2 | < 0.5 | < 0.2 |
| 87451 Dup | 15 | 63 | 58 | < 0.003 | 0.005 | 290 | 9 | 60 | < 10 | < 30 | 4 | < 1 | < 5 | 3 | < 2 | < 0.5 | < 0.2 |
| 87460 Orig | | | | | | | | | | | | | | | | | |
| 87460 Dup | | | | | | | | | | | | | | | | | |
| 87466 Orig | 38 | 100 | 95 | | | < 20 | 20 | < 20 | 50 | 710 | 24 | 5 | 17 | 3 | 28 | < 0.5 | < 0.2 |
| 87466 Dup | 37 | 101 | 95 | | | < 20 | 19 | < 20 | 20 | 690 | 24 | 5 | 16 | 3 | 28 | < 0.5 | < 0.2 |
| 87467 Orig | | | | < 0.003 | 0.114 | | | | | | | | | | | | |

**Final Report
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| Analyte Symbol | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| WMG-1 Meas | 2 | | < 0.5 | | | | | | 2.5 | 0.78 | | 0.5 | 2.7 | 0.5 | | 0.2 | 1.4 |
| WMG-1 Cert | 2.2 | | 0.48 | | | | | | 2.3 | 0.82 | | 0.3 | 2.8 | 0.5 | | 0.2 | 1.3 |
| DH-1a Meas | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | 1 | | | 3.6 | | | 5.1 | | 0.59 | | | | | | | 2 |
| DNC-1 Cert | | 0.96 | | | 3.6 | | | 5.2 | | 0.59 | | | | | | | 2 |
| GBW 07113 Meas | | | | | | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | | | | | | |
| MICA-FE Meas | | | | | | | | | | | | | | | | | |
| MICA-FE Cert | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | 1.2 | 2.2 | | 52.4 | 89.8 | | 39.1 | 7.2 | 1.42 | | | 4.9 | | | | 2.5 |
| LKSD-3 Cert | | 1.3 | 2.3 | | 52 | 90 | | 44 | 8 | 1.5 | | | 4.9 | | | | 2.7 |
| NIST 1633b Meas | | | | | | | | | | | | | | | | | |
| NIST 1633b Cert | | | | | | | | | | | | | | | | | |
| OKA-2 Meas | | | | | | | | | | | | | 1470 | | | | |
| OKA-2 Cert | | | | | | | | | | | | | 1480 | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | |
| W-2a Meas | | | 0.9 | < 0.4 | 10.7 | 23.2 | | 12.7 | 3.2 | 1.06 | | 0.7 | 3.8 | 0.8 | 2.6 | 0.34 | 2.1 |
| W-2a Cert | | | 0.99 | 0.03 | 10 | 23 | | 13 | 3.3 | 1 | | 0.63 | 3.6 | 0.76 | 2.5 | 0.38 | 2.1 |
| SY-4 Meas | | | | | | | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | 2180 | 3330 | | 1120 | 166 | 45.2 | 128 | 14.6 | | | | | 10.8 |
| CTA-AC-1 Cert | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | | 11.4 |
| BIR-1a Meas | 1 | | < 0.5 | < 0.4 | 0.6 | 2.1 | 0.35 | 2.3 | 1.1 | 0.55 | 1.9 | 0.5 | 2.8 | 0.6 | 1.6 | 0.24 | 1.6 |
| BIR-1a Cert | 0.65 | | 0.005 | 0.02 | 0.62 | 1.95 | 0.38 | 2.5 | 1.1 | 0.54 | 1.85 | 0.36 | 2.5 | 0.57 | 1.7 | 0.26 | 1.65 |
| NCS DC86312 Meas | | | | | 2350 | 178 | | 1570 | | | 223 | 34.3 | 183 | 35.7 | 96.2 | 14.4 | 87.6 |
| NCS DC86312 Cert | | | | | 2360 | 190 | | 1600 | | | 225 | 34.6 | 183 | 35.7 | 96.2 | 15.1 | 87.79 |
| VS-N Meas | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | |
| NCS DC86302 Meas | | | | | | | | | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | 180 | | 80.3 | 47.3 | 91.6 | 9.69 | 37.4 | 7.8 | 1.66 | 7.4 | 1.2 | 6.7 | 1.3 | 3.4 | 0.54 | 3.4 |
| NCS DC70014 Cert | | 180 | | 80.3 | 45.3 | 87 | 10.8 | 39.9 | 8 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | 0.57 | 3.3 |
| IGS 40 Meas | | | | | 20900 | 32700 | 2790 | 8330 | | 85.3 | | | | | | | |
| IGS 40 Cert | | | | | 20720 | 32247 | 2730 | 8320 | | 86.35 | | | | | | | |
| IGS 41 Meas | | | | | | | | | | | | | | | | | |
| IGS 41 Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |

**Final Report
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| Analyte Symbol | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWMC-1 Meas | 2 | | < 0.5 | | | | | | 2.5 | 0.78 | | 0.5 | 2.7 | 0.5 | | 0.2 | 1.4 |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 1700 | 3.3 | 43.9 | | 22.9 | 60.4 | 7.54 | 31.2 | 12.3 | 0.15 | 15.4 | 3.4 | 20.4 | 4.3 | 12.6 | 2.32 | 15.9 |
| NCS DC70009 (GBW07241) Cert | 1701 | 3.1 | 41 | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | 2.2 | 14.9 |
| OREAS 100a (Fusion) Meas | | | | | 260 | 470 | 45.5 | 149 | 24.2 | 3.66 | 21.3 | 3.7 | 23 | 5 | 14.4 | 2.4 | 15.4 |
| OREAS 100a (Fusion) Cert | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.8 | 23.2 | 4.81 | 14.9 | 2.31 | 14.9 |
| OREAS 101a (Fusion) Meas | | | | | 804 | 1390 | 138 | 388 | 50.2 | 7.97 | | 5.6 | 33.2 | 6.6 | 19 | 2.95 | 18.3 |
| OREAS 101a (Fusion) Cert | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | 2.9 | 17.5 |
| JR-1 Meas | | 1.5 | 20.9 | 0.6 | 20.1 | 47.1 | 5.8 | 23.2 | 5.8 | 0.27 | 5.9 | 1.1 | 6.3 | 1.2 | 4 | 0.71 | 4.7 |
| JR-1 Cert | | 1.19 | 20.8 | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.3 | 5.06 | 1.01 | 5.69 | 1.11 | 3.61 | 0.67 | 4.55 |
| NCS DC86318 Meas | | | | | 1870 | 413 | 695 | 3340 | 1660 | 18.6 | 2070 | 481 | | 562 | 1680 | 265 | 1760 |
| NCS DC86318 Cert | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | | 560 | 1750 | 270 | 1840 |
| SX18-01 Meas | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | | | | | | | | | |
| USZ 44-2007 Meas | | | | | | | | | | | | | | | | | |
| USZ 44-2007 Cert | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | |
| 83310 Orig | | | | | | | | | | | | | | | | | |
| 83310 Dup | | | | | | | | | | | | | | | | | |
| 83315 Orig | 35 | < 0.5 | < 0.5 | 8.2 | 387 | 1820 | 374 | 2180 | 534 | 142 | 365 | 43 | 174 | 24.7 | 51.7 | 5.9 | 30.1 |
| 83315 Dup | 36 | < 0.5 | < 0.5 | 7.5 | 391 | 1830 | 378 | 2200 | 536 | 142 | 370 | 44.2 | 179 | 25.3 | 53.1 | 6.13 | 30.9 |
| 83316 Orig | | | | | | | | | | | | | | | | | |

Final Report
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| Analyte Symbol | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWMS-1 Meas | 2 | | < 0.5 | | | | | | 2.5 | 0.78 | | 0.5 | 2.7 | 0.5 | | 0.2 | 1.4 |
| 83316 Dup | | | | | | | | | | | | | | | | | |
| 83320 Orig | | | | | | | | | | | | | | | | | |
| 83320 Dup | | | | | | | | | | | | | | | | | |
| 83332 Orig | 34 | 0.7 | < 0.5 | 9.5 | 4160 | 8390 | 874 | 3070 | 403 | 95.2 | 222 | 20.9 | 79 | 9.7 | 18.6 | 2.23 | 13.1 |
| 83332 Dup | 33 | 0.8 | < 0.5 | 10.7 | 4210 | 8450 | 879 | 3080 | 402 | 95.7 | 217 | 21 | 79.6 | 9.7 | 18.9 | 2.21 | 13.2 |
| 83342 Orig | 4 | 0.6 | < 0.5 | < 0.4 | 352 | 848 | 105 | 467 | 94.2 | 26.5 | 79.3 | 10.6 | 48.2 | 7.7 | 17.3 | 1.98 | 10.7 |
| 83342 Dup | 4 | 0.9 | < 0.5 | < 0.4 | 358 | 867 | 108 | 481 | 96.8 | 27.3 | 80.3 | 10.7 | 49.5 | 7.8 | 17.5 | 1.98 | 10.8 |
| 83345 Orig | | | | | | | | | | | | | | | | | |
| 83345 Dup | | | | | | | | | | | | | | | | | |
| 83351 Orig | | | | | | | | | | | | | | | | | |
| 83351 Split | | | | | | | | | | | | | | | | | |
| 83355 Orig | | | | | | | | | | | | | | | | | |
| 83355 Dup | | | | | | | | | | | | | | | | | |
| 83357 Orig | 12 | 0.5 | < 0.5 | 3.5 | 3990 | 7090 | 696 | 2390 | 317 | 79.1 | 179 | 21.5 | 105 | 18.7 | 50.2 | 6.37 | 33.6 |
| 83357 Dup | 12 | < 0.5 | < 0.5 | 2.9 | 4020 | 7090 | 692 | 2410 | 317 | 78.2 | 176 | 21.6 | 105 | 18.5 | 48.6 | 6.32 | 33.7 |
| 83358 Orig | | | | | | | | | | | | | | | | | |
| 83358 Dup | | | | | | | | | | | | | | | | | |
| 83365 Orig | | | | | | | | | | | | | | | | | |
| 83365 Dup | | | | | | | | | | | | | | | | | |
| 83374 Orig | 2 | 23.6 | < 0.5 | 0.5 | 576 | 1050 | 105 | 382 | 41.6 | 8.03 | 12.7 | 1.1 | 4 | 0.6 | 1.4 | 0.18 | 1.1 |
| 83374 Dup | 2 | 29.2 | < 0.5 | 0.6 | 591 | 1090 | 108 | 394 | 42.9 | 8.32 | 13 | 1.1 | 4.2 | 0.6 | 1.5 | 0.19 | 1.2 |
| 87405 Orig | | | | | | | | | | | | | | | | | |
| 87405 Dup | | | | | | | | | | | | | | | | | |
| 87409 Orig | 5 | 0.6 | 0.7 | 3.1 | 39.6 | 127 | 51.3 | 604 | 272 | 59 | 137 | 12.2 | 44.3 | 6.2 | 13.7 | 1.69 | 10.4 |
| 87409 Dup | 5 | 0.6 | 0.7 | 3.2 | 38.7 | 126 | 52 | 618 | 278 | 59.9 | 140 | 12.7 | 45.7 | 6.5 | 14 | 1.73 | 10.5 |
| 87415 Orig | | | | | | | | | | | | | | | | | |
| 87415 Split | | | | | | | | | | | | | | | | | |
| 87416 Orig | | | | | | | | | | | | | | | | | |
| 87416 Dup | | | | | | | | | | | | | | | | | |
| 87424 Orig | < 1 | < 0.5 | < 0.5 | < 0.4 | 3 | 6.5 | 0.65 | 2.4 | 0.4 | 0.13 | 0.4 | < 0.1 | 0.3 | < 0.1 | 0.2 | < 0.05 | 0.2 |
| 87424 Dup | < 1 | < 0.5 | < 0.5 | < 0.4 | 3.5 | 7.2 | 0.7 | 2.6 | 0.5 | 0.14 | 0.4 | < 0.1 | 0.3 | < 0.1 | 0.2 | < 0.05 | 0.1 |
| 87426 Orig | | | | | | | | | | | | | | | | | |
| 87426 Dup | | | | | | | | | | | | | | | | | |
| 87440 Orig | | | | | | | | | | | | | | | | | |
| 87440 Dup | | | | | | | | | | | | | | | | | |
| 87441 Orig | 4 | < 0.5 | < 0.5 | 0.4 | 690 | 2180 | 200 | 811 | 123 | 32.8 | 88 | 12.3 | 60.1 | 9.8 | 22.6 | 2.37 | 11.4 |
| 87441 Dup | 4 | 0.8 | < 0.5 | 0.5 | 695 | 2180 | 200 | 815 | 123 | 32.8 | 87 | 12.1 | 59.9 | 9.9 | 22.7 | 2.37 | 11.4 |
| 87445 Orig | | | | | | | | | | | | | | | | | |
| 87445 Split | | | | | | | | | | | | | | | | | |
| 87450 Orig | | | | | | | | | | | | | | | | | |
| 87450 Dup | | | | | | | | | | | | | | | | | |
| 87451 Orig | < 1 | 0.9 | < 0.5 | < 0.4 | 12.7 | 29.2 | 3.15 | 13.6 | 2.8 | 0.82 | 2.4 | 0.4 | 2.4 | 0.5 | 1.7 | 0.29 | 2 |
| 87451 Dup | < 1 | 0.9 | < 0.5 | < 0.4 | 12.3 | 28.6 | 3.09 | 13.3 | 2.8 | 0.81 | 2.4 | 0.4 | 2.4 | 0.5 | 1.7 | 0.28 | 2 |
| 87460 Orig | | | | | | | | | | | | | | | | | |
| 87460 Dup | | | | | | | | | | | | | | | | | |
| 87466 Orig | 3 | < 0.5 | < 0.5 | 1.6 | 1180 | 2940 | 348 | 1340 | 147 | 29.1 | 62.8 | 3.9 | 12.5 | 1.4 | 2.9 | 0.38 | 2.6 |
| 87466 Dup | 3 | < 0.5 | < 0.5 | 1.4 | 1170 | 2930 | 345 | 1330 | 147 | 29 | 62.6 | 3.9 | 12.3 | 1.4 | 2.9 | 0.38 | 2.6 |
| 87467 Orig | | | | | | | | | | | | | | | | | |

Final Report
Activation Laboratories

| Analyte Symbol | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWMS-1 Meas | 2 | | < 0.5 | | | | | | 2.5 | 0.78 | | 0.5 | 2.7 | 0.5 | | 0.2 | 1.4 |
| 87467 Dup | | | | | | | | | | | | | | | | | |
| 87475 Orig | 2 | 0.5 | 2.4 | 1.4 | 562 | 1100 | 133 | 479 | 74.2 | 18.8 | 49.1 | 6.4 | 30.4 | 5 | 11.9 | 1.38 | 7.2 |
| 87475 Split | 2 | 1.2 | 2.5 | 1.2 | 536 | 1070 | 127 | 466 | 73.1 | 18.4 | 45.7 | 6.2 | 29.5 | 4.9 | 11.8 | 1.4 | 7.1 |
| 87483 Orig | 9 | 1.2 | < 0.5 | < 0.4 | 717 | 2080 | 235 | 954 | 139 | 33.4 | 81.7 | 9.2 | 40.7 | 6 | 13 | 1.5 | 8.1 |
| 87483 Dup | 13 | 1.8 | < 0.5 | < 0.4 | 718 | 2080 | 236 | 964 | 141 | 33.8 | 82.5 | 9.4 | 41.2 | 6.1 | 13.3 | 1.49 | 8.2 |
| 87485 Orig | | | | | | | | | | | | | | | | | |
| 87485 Dup | | | | | | | | | | | | | | | | | |
| 87493 Orig | 8 | < 0.5 | < 0.5 | < 0.4 | 679 | 1650 | 198 | 806 | 122 | 29.3 | 75.9 | 9.1 | 41.7 | 6.7 | 16.2 | 1.9 | 10.2 |
| 87493 Dup | 7 | < 0.5 | < 0.5 | < 0.4 | 688 | 1660 | 199 | 808 | 121 | 29.4 | 75.8 | 9.1 | 42.2 | 6.8 | 15.8 | 1.87 | 10.2 |
| 87496 Orig | | | | | | | | | | | | | | | | | |
| 87496 Dup | | | | | | | | | | | | | | | | | |
| 87605 Orig | 35 | 1.1 | 2 | < 0.4 | 753 | 1480 | 164 | 551 | 62 | 12.6 | 24.4 | 2.4 | 11 | 1.9 | 4.9 | 0.67 | 4.1 |
| 87605 Split | 35 | 1 | 2 | < 0.4 | 737 | 1440 | 161 | 540 | 61.3 | 12.4 | 24.3 | 2.3 | 10.7 | 1.8 | 4.8 | 0.68 | 4.2 |
| 87608 Orig | 1 | 2.3 | < 0.5 | < 0.4 | 96.1 | 208 | 24.2 | 95.2 | 19.1 | 5.31 | 14.7 | 2.2 | 11.2 | 2 | 5 | 0.64 | 3.5 |
| 87608 Dup | 1 | 2.1 | < 0.5 | < 0.4 | 96.1 | 208 | 24.2 | 96 | 18.8 | 5.31 | 14.5 | 2.1 | 11.1 | 2 | 4.9 | 0.64 | 3.4 |
| 87610 Orig | | | | | | | | | | | | | | | | | |
| 87610 Dup | | | | | | | | | | | | | | | | | |
| 87620 Orig | | | | | | | | | | | | | | | | | |
| 87620 Dup | | | | | | | | | | | | | | | | | |
| 87625 Orig | 1 | 0.9 | < 0.5 | < 0.4 | 105 | 235 | 28.3 | 113 | 18.6 | 5.37 | 12.2 | 1.6 | 7.6 | 1.3 | 3.1 | 0.4 | 2.3 |
| 87625 Dup | 1 | 1.1 | < 0.5 | < 0.4 | 102 | 230 | 27.6 | 111 | 18.4 | 5.24 | 12 | 1.5 | 7.5 | 1.3 | 3.1 | 0.38 | 2.2 |
| 87628 Orig | 17 | 0.8 | 0.5 | < 0.4 | 512 | 1640 | 177 | 657 | 100 | 25.2 | 59.1 | 7.8 | 39 | 6.9 | 18.8 | 2.65 | 15.4 |
| 87628 Split | 18 | 0.9 | 0.5 | < 0.4 | 502 | 1630 | 178 | 658 | 100 | 25.4 | 59.3 | 8 | 39.6 | 7.1 | 19 | 2.71 | 15.9 |
| Method Blank | < 1 | < 0.5 | < 0.5 | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 |
| Method Blank | | | | | | | | | | | | | | | | | |
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| Method Blank | | | | | | | | | | | | | | | | | |

**Final Report
Activation Laboratories**

| Analyte Symbol | Lu | Hf | W | Tl | Pb | Th | U |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| WMG-1 Meas | 0.2 | 1.5 | 1 | | 20 | 1.2 | 0.7 |
| WMG-1 Cert | 0.21 | 1.3 | 1.3 | | 15 | 1.1 | 0.65 |
| DH-1a Meas | | | | | | 919 | 2690 |
| DH-1a Cert | | | | | | 910 | 2630 |
| TAN-1 Meas | | | | | | | |
| TAN-1 Cert | | | | | | | |
| NIST 694 Meas | | | | | | | |
| NIST 694 Cert | | | | | | | |
| DNC-1 Meas | | | | | | | |
| DNC-1 Cert | | | | | | | |
| GBW 07113 Meas | | | | | | | |
| GBW 07113 Cert | | | | | | | |
| MICA-FE Meas | | | | | | | |
| MICA-FE Cert | | | | | | | |
| LKSD-3 Meas | 0.37 | 4.7 | 1 | | 24 | 10.2 | 3.9 |
| LKSD-3 Cert | 0.4 | 4.8 | 2 | | 29 | 11.4 | 4.6 |
| NIST 1633b Meas | | | | | | | |
| NIST 1633b Cert | | | | | | | |
| OKA-2 Meas | | | | | | 29200 | |
| OKA-2 Cert | | | | | | 28900 | |
| AC-E Meas | | | | | | | |
| AC-E Cert | | | | | | | |
| OKA-1 Meas | | | | | | | |
| OKA-1 Cert | | | | | | | |
| W-2a Meas | 0.33 | 2.4 | | < 0.1 | 9 | 2.1 | 0.5 |
| W-2a Cert | 0.33 | 2.6 | | 0.2 | 9.3 | 2.4 | 0.53 |
| SY-4 Meas | | | | | | | |
| SY-4 Cert | | | | | | | |
| CTA-AC-1 Meas | 1.1 | 2 | | | | 21.5 | 4 |
| CTA-AC-1 Cert | 1.08 | 1.13 | | | | 21.8 | 4.4 |
| BIR-1a Meas | 0.29 | 0.6 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 |
| BIR-1a Cert | 0.26 | 0.6 | 0.07 | 0.01 | 3 | 0.03 | 0.01 |
| NCS DC86312 Meas | 12 | | | | | 24.8 | |
| NCS DC86312 Cert | 11.96 | | | | | 23.6 | |
| VS-N Meas | | | | | | | |
| VS-N Cert | | | | | | | |
| NCS DC86302 Meas | | | | | | | |
| NCS DC86302 Cert | | | | | | | |
| NCS DC70014 Meas | 0.49 | | | | 27200 | | |
| NCS DC70014 Cert | 0.5 | | | | 27200 | | |
| IGS 40 Meas | | | | | | | |
| IGS 40 Cert | | | | | | | |
| IGS 41 Meas | | | | | | | |
| IGS 41 Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |
| CDN-GS-3D Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |
| CDN-GS-3D Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |

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Activation Laboratories

| Analyte Symbol | Lu | Hf | W | Tl | Pb | Th | U |
|-----------------------------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| VWGS-1 Meas | 0.2 | 1.5 | 1 | | 20 | 1.2 | 0.7 |
| CDN-GS-3D Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |
| CDN-GS-3D Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |
| CDN-GS-3D Cert | | | | | | | |
| CDN-GS-3D Meas | | | | | | | |
| CDN-GS-3D Cert | | | | | | | |
| NCS DC86316 Meas | | 712 | | | | | |
| NCS DC86316 Cert | | 712 | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.22 | | 2200 | 2.1 | | 29.4 | |
| NCS DC70009 (GBW07241) Cert | 2.4 | | 2200 | 1.8 | | 28.3 | |
| OREAS 100a (Fusion) Meas | 2.16 | | | | | 50.8 | 135 |
| OREAS 100a (Fusion) Cert | 2.26 | | | | | 51.6 | 135 |
| OREAS 101a (Fusion) Meas | 2.5 | | | | | 34.8 | 415 |
| OREAS 101a (Fusion) Cert | 2.66 | | | | | 36.6 | 422 |
| JR-1 Meas | 0.7 | 4.4 | | 1.3 | 21 | 26.3 | 8.9 |
| JR-1 Cert | 0.71 | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 |
| NCS DC86318 Meas | 260 | | | | | | |
| NCS DC86318 Cert | 260 | | | | | | |
| SX18-01 Meas | | | | | | | |
| SX18-01 Cert | | | | | | | |
| SX18-04 Meas | | | | | | | |
| SX18-04 Cert | | | | | | | |
| SX18-05 Meas | | | | | | | |
| SX18-05 Cert | | | | | | | |
| SARM 3 Meas | | | | | | | |
| SARM 3 Cert | | | | | | | |
| USZ 44-2007 Meas | | | | | | | |
| USZ 44-2007 Cert | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | |
| 83310 Orig | | | | | | | |
| 83310 Dup | | | | | | | |
| 83315 Orig | 3.59 | 2.3 | 5 | < 0.1 | 185 | 1300 | 0.2 |
| 83315 Dup | 3.68 | 2.4 | 5 | < 0.1 | 179 | 1320 | 0.2 |
| 83316 Orig | | | | | | | |

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Activation Laboratories

| Analyte Symbol | Lu | Hf | W | Tl | Pb | Th | U |
|-----------------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| WMC-1 Meas | 0.2 | 1.5 | 1 | | 20 | 1.2 | 0.7 |
| 83316 Dup | | | | | | | |
| 83320 Orig | | | | | | | |
| 83320 Dup | | | | | | | |
| 83332 Orig | 1.91 | 1.7 | 11 | < 0.1 | 213 | 879 | 0.4 |
| 83332 Dup | 1.92 | 1.6 | 10 | < 0.1 | 227 | 882 | 0.4 |
| 83342 Orig | 1.45 | 3 | 5 | < 0.1 | 51 | 127 | 247 |
| 83342 Dup | 1.47 | 2.8 | 6 | < 0.1 | 49 | 126 | 251 |
| 83345 Orig | | | | | | | |
| 83345 Dup | | | | | | | |
| 83351 Orig | | | | | | | |
| 83351 Split | | | | | | | |
| 83355 Orig | | | | | | | |
| 83355 Dup | | | | | | | |
| 83357 Orig | 4.46 | 2.4 | 8 | < 0.1 | 10 | 613 | 0.2 |
| 83357 Dup | 4.43 | 2.4 | 8 | < 0.1 | 8 | 613 | 0.3 |
| 83358 Orig | | | | | | | |
| 83358 Dup | | | | | | | |
| 83365 Orig | | | | | | | |
| 83365 Dup | | | | | | | |
| 83374 Orig | 0.18 | 0.7 | 7 | < 0.1 | 12 | 32.8 | 1 |
| 83374 Dup | 0.19 | 0.7 | 8 | < 0.1 | 14 | 33.4 | 1 |
| 87405 Orig | | | | | | | |
| 87405 Dup | | | | | | | |
| 87409 Orig | 1.36 | 1.1 | 2 | < 0.1 | 41 | 1180 | < 0.1 |
| 87409 Dup | 1.36 | 1 | 2 | < 0.1 | 43 | 1210 | < 0.1 |
| 87415 Orig | | | | | | | |
| 87415 Split | | | | | | | |
| 87416 Orig | | | | | | | |
| 87416 Dup | | | | | | | |
| 87424 Orig | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | 1 | 0.3 |
| 87424 Dup | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | 1 | 0.3 |
| 87426 Orig | | | | | | | |
| 87426 Dup | | | | | | | |
| 87440 Orig | | | | | | | |
| 87440 Dup | | | | | | | |
| 87441 Orig | 1.43 | 2.2 | 5 | < 0.1 | 21 | 326 | 54.5 |
| 87441 Dup | 1.48 | 2.1 | 5 | < 0.1 | 21 | 330 | 55.8 |
| 87445 Orig | | | | | | | |
| 87445 Split | | | | | | | |
| 87450 Orig | | | | | | | |
| 87450 Dup | | | | | | | |
| 87451 Orig | 0.33 | 1.5 | 7 | < 0.1 | < 5 | 5.9 | 0.4 |
| 87451 Dup | 0.32 | 1.4 | 7 | < 0.1 | < 5 | 5.8 | 0.4 |
| 87460 Orig | | | | | | | |
| 87460 Dup | | | | | | | |
| 87466 Orig | 0.39 | 1.7 | 1 | < 0.1 | 7 | 185 | 2.7 |
| 87466 Dup | 0.4 | 1.7 | 1 | < 0.1 | < 5 | 182 | 2.7 |
| 87467 Orig | | | | | | | |



Date Submitted: 27-Aug-10
Invoice No.: A10-5392
Invoice Date: 29-Sep-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

2 Pulp samples and 102 Rock samples were submitted for analysis.

The following analytical packages were requested:

| | | |
|---------------|-----------------|--|
| REPORT | A10-5392 | Code 1A2 Au - Fire Assay AA Code 8-REE-Rare Earth Element Pkg Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2) Code 8-XRF Assay Package Fusion-XRF |
|---------------|-----------------|--|

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A10-5392

| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 67751 | < 5 | 3.45 | 0.66 | 12.25 | 0.720 | 11.26 | 29.67 | 0.39 | < 0.01 | 0.225 | 3.81 | 35.89 | 98.33 | 23 | < 1 | 62 | 50 | 17 | 40 | 20 | 150 | 5 | < 1 | < 5 |
| 67752 | < 5 | 30.08 | 8.51 | 9.96 | 0.166 | 8.72 | 13.94 | 2.37 | 4.19 | 1.851 | 0.50 | 20.35 | 100.6 | 29 | 5 | 204 | 460 | 46 | 200 | 90 | 70 | 13 | < 1 | < 5 |
| 67753 | < 5 | 43.03 | 12.49 | 11.90 | 0.161 | 5.08 | 6.28 | 5.52 | 2.53 | 2.508 | 0.24 | 9.63 | 99.37 | 26 | 7 | 292 | 260 | 44 | 110 | 110 | 90 | 17 | 2 | < 5 |
| 67754 | < 5 | 41.51 | 12.78 | 11.18 | 0.214 | 5.18 | 8.30 | 3.33 | 2.54 | 1.175 | 0.10 | 13.25 | 99.57 | 38 | 4 | 301 | 60 | 29 | 30 | 360 | 40 | 14 | 1 | < 5 |
| 67755 | < 5 | 40.20 | 12.53 | 11.85 | 0.209 | 4.77 | 7.85 | 5.57 | 1.91 | 3.072 | 0.42 | 11.36 | 99.74 | 26 | 8 | 266 | 90 | 42 | 40 | 40 | 100 | 21 | 2 | < 5 |
| 67756 | < 5 | 60.06 | 16.86 | 2.39 | 0.035 | 0.94 | 1.07 | 1.92 | 12.08 | 2.918 | 0.27 | 1.93 | 100.5 | 7 | 2 | 115 | 260 | 17 | < 20 | 20 | 40 | 29 | 1 | < 5 |
| 67757 | < 5 | 14.91 | 4.71 | 15.16 | 0.335 | 7.40 | 23.59 | 1.89 | 0.85 | 2.804 | 2.13 | 25.24 | 99.02 | 25 | 4 | 341 | 30 | 41 | 20 | 120 | 80 | 14 | 1 | < 5 |
| 67758 | < 5 | 18.48 | 4.00 | 16.27 | 0.311 | 8.27 | 24.16 | 0.42 | 2.42 | 3.230 | 2.27 | 19.66 | 99.49 | 24 | 7 | 332 | 20 | 30 | < 20 | 150 | 130 | 16 | 2 | < 5 |
| 67759 | < 5 | 35.56 | 11.31 | 17.49 | 0.301 | 4.65 | 8.88 | 2.59 | 3.37 | 3.018 | 0.88 | 12.37 | 100.4 | 36 | 9 | 619 | 90 | 47 | 70 | 80 | 80 | 18 | 2 | < 5 |
| 67760 | < 5 | 45.33 | 16.28 | 11.35 | 0.174 | 9.13 | 10.05 | 1.30 | 1.53 | 1.166 | 0.17 | 3.79 | 100.3 | 41 | 1 | 258 | 60 | 48 | 90 | 50 | 80 | 16 | 2 | < 5 |
| 67761 | < 5 | 10.63 | 3.03 | 12.76 | 0.269 | 8.82 | 26.96 | 0.17 | 2.08 | 2.283 | 10.13 | 21.35 | 98.49 | 27 | 5 | 276 | < 20 | 27 | < 20 | 120 | 130 | 9 | 1 | < 5 |
| 83376 | < 5 | 35.33 | 8.32 | 10.99 | 0.248 | 8.50 | 11.83 | 3.46 | 0.81 | 2.048 | 0.59 | 18.29 | 100.4 | 30 | 14 | 288 | 970 | 47 | 330 | 60 | 100 | 12 | 1 | < 5 |
| 83377 | 72 | 20.65 | 3.32 | 10.00 | 0.469 | 16.97 | 16.34 | 1.16 | 0.36 | 0.693 | 0.17 | 28.70 | 98.84 | 21 | 1 | 103 | 920 | 48 | 370 | 220 | 80 | 8 | 2 | < 5 |
| 83378 | < 5 | 17.88 | 2.87 | 6.99 | 0.350 | 12.84 | 21.13 | 1.43 | 0.32 | 0.238 | 0.11 | 34.16 | 98.32 | 37 | 4 | 59 | 230 | 21 | 160 | < 10 | 130 | 7 | < 1 | < 5 |
| 83379 | < 5 | 39.27 | 10.76 | 11.16 | 0.166 | 7.69 | 8.27 | 3.80 | 3.59 | 2.075 | 0.21 | 13.21 | 100.2 | 32 | 13 | 292 | 650 | 50 | 220 | 70 | 120 | 14 | 2 | < 5 |
| 83380 | < 5 | 16.22 | 2.73 | 8.62 | 0.510 | 12.28 | 22.55 | 1.57 | 0.06 | 0.229 | 0.71 | 34.04 | 99.51 | 23 | 1 | 42 | 70 | 17 | 50 | 20 | 150 | 7 | < 1 | < 5 |
| 83381 | < 5 | 11.49 | 2.76 | 11.47 | 0.520 | 6.28 | 30.38 | 1.19 | 0.68 | 0.205 | 17.19 | 16.21 | 98.37 | 22 | 3 | 91 | 60 | 24 | 60 | 50 | 210 | 8 | 1 | 5 |
| 83382 | 5 | 38.01 | 13.68 | 12.85 | 0.220 | 5.67 | 7.37 | 2.90 | 4.75 | 3.570 | 0.87 | 10.99 | 100.9 | 26 | 19 | 397 | 60 | 51 | 50 | 330 | 130 | 19 | 4 | < 5 |
| 87666 | < 5 | 17.43 | 4.41 | 12.54 | 0.832 | 10.71 | 18.98 | 0.82 | 2.98 | 0.781 | 0.52 | 27.79 | 97.79 | 23 | 3 | 210 | 520 | 25 | 150 | < 10 | 130 | 14 | 2 | 10 |
| 87667 | < 5 | 2.10 | 0.54 | 8.19 | 0.469 | 13.35 | 32.19 | 0.13 | 0.32 | 0.015 | 5.09 | 36.61 | 99.01 | 18 | < 1 | 27 | < 20 | 10 | < 20 | < 10 | 40 | 3 | < 1 | < 5 |
| 87668 | < 5 | 0.49 | 0.15 | 7.21 | 0.356 | 16.33 | 31.38 | 0.02 | 0.11 | 0.010 | 2.23 | 42.24 | 100.5 | 18 | < 1 | 43 | < 20 | 7 | < 20 | < 10 | 70 | 3 | < 1 | < 5 |
| 87669 | < 5 | 27.72 | 7.27 | 12.86 | 0.229 | 5.93 | 17.06 | 2.42 | 2.74 | 2.504 | 4.52 | 16.60 | 99.85 | 27 | 10 | 378 | 60 | 38 | 40 | 110 | 80 | 15 | 1 | < 5 |
| 87670 | < 5 | 2.16 | 0.50 | 3.47 | 0.349 | 2.82 | 48.66 | 0.10 | 0.28 | 0.286 | 2.61 | 37.98 | 99.20 | 9 | 1 | 77 | 50 | 6 | < 20 | 50 | 140 | 4 | < 1 | 7 |
| 87671 | < 5 | 2.42 | 0.28 | 3.25 | 0.187 | 2.62 | 47.91 | 0.03 | 0.18 | 0.092 | 5.45 | 34.33 | 96.75 | 4 | < 1 | 69 | < 20 | 3 | < 20 | < 10 | 40 | 4 | 1 | < 5 |
| 87672 | < 5 | 48.44 | 21.12 | 8.36 | 0.139 | 5.11 | 6.19 | 4.42 | 2.29 | 1.315 | 0.21 | 2.45 | 100.1 | 13 | 2 | 119 | 20 | 33 | 30 | 10 | 50 | 16 | 1 | < 5 |
| 28175 | 16 | 7.41 | 1.22 | 15.86 | 1.541 | 11.47 | 23.28 | 0.09 | 0.50 | 0.433 | 1.69 | 32.37 | 95.87 | 58 | 6 | 123 | 120 | 28 | 120 | 30 | 2580 | 25 | 5 | 15 |
| 87629 | < 5 | 0.82 | 0.21 | 4.96 | 0.318 | 8.88 | 39.71 | 0.08 | 0.10 | 0.446 | 19.32 | 21.57 | 96.40 | 13 | 1 | 212 | < 20 | 21 | < 20 | 10 | 310 | 8 | 2 | 13 |
| 87630 | < 5 | 0.84 | 0.25 | 7.34 | 0.451 | 14.00 | 32.66 | 0.04 | 0.15 | 0.094 | 6.49 | 34.96 | 97.27 | 26 | 3 | 136 | < 20 | 5 | < 20 | 20 | 110 | 5 | < 1 | 8 |
| 87631 | < 5 | 1.11 | 0.31 | 6.52 | 0.449 | 14.49 | 33.17 | 0.06 | 0.20 | 0.036 | 6.01 | 36.91 | 99.27 | 15 | 4 | 96 | < 20 | 4 | < 20 | < 10 | 120 | 4 | < 1 | 8 |
| 87632 | < 5 | 0.96 | 0.24 | 4.68 | 0.331 | 9.84 | 39.18 | 0.08 | 0.18 | 0.245 | 16.49 | 25.23 | 97.45 | 37 | 2 | 179 | < 20 | 12 | < 20 | < 10 | 280 | 9 | 2 | 11 |
| 87633 | < 5 | 1.31 | 0.36 | 5.21 | 0.370 | 12.51 | 36.60 | 0.09 | 0.23 | 0.152 | 11.43 | 30.78 | 99.04 | 10 | 3 | 246 | < 20 | 8 | < 20 | < 10 | 110 | 8 | 2 | 9 |
| 87634 | < 5 | 0.42 | 0.13 | 3.04 | 0.305 | 15.41 | 37.63 | 0.04 | 0.08 | 0.100 | 5.09 | 35.42 | 97.67 | 22 | 22 | 221 | < 20 | 3 | < 20 | < 10 | 70 | 4 | < 1 | 6 |
| 87635 | < 5 | 5.48 | 0.15 | 11.16 | 0.257 | 5.28 | 40.97 | 0.06 | 0.10 | 0.286 | 7.23 | 27.39 | 98.37 | 8 | < 1 | 251 | < 20 | < 1 | < 20 | < 10 | 40 | 6 | 2 | 6 |
| 87636 | < 5 | 8.51 | 0.20 | 10.57 | 1.495 | 13.12 | 24.20 | 0.02 | 0.13 | 0.270 | 0.99 | 36.43 | 95.94 | 88 | 14 | 105 | 50 | 1 | < 20 | < 10 | 320 | 19 | 3 | 9 |
| 87637 | < 5 | 2.63 | 0.88 | 19.24 | 1.239 | 4.59 | 32.73 | 0.11 | 0.24 | 0.319 | 15.65 | 21.32 | 98.94 | 18 | 4 | 271 | < 20 | 17 | < 20 | 20 | 490 | 10 | 2 | 8 |
| 87638 | 16 | 7.65 | 2.00 | 10.02 | 0.734 | 12.23 | 27.20 | 0.17 | 0.99 | 0.273 | 5.45 | 27.90 | 94.61 | 14 | 4 | 250 | < 20 | 5 | < 20 | 10 | 140 | 16 | 1 | 15 |
| 87639 | < 5 | 41.31 | 12.10 | 13.25 | 0.164 | 5.04 | 6.84 | 5.89 | 1.35 | 3.283 | 0.49 | 9.68 | 99.40 | 23 | 3 | 325 | 30 | 41 | 30 | 40 | 90 | 17 | < 1 | < 5 |
| 87640 | < 5 | 16.39 | 0.72 | 5.33 | 1.648 | 13.75 | 24.01 | 0.03 | 0.09 | 0.083 | 0.49 | 35.59 | 98.13 | 95 | 4 | 25 | < 20 | 3 | < 20 | < 10 | 340 | 17 | 3 | 9 |
| 87641 | < 5 | 29.69 | 6.21 | 12.49 | 0.394 | 13.42 | 11.85 | 1.84 | 1.82 | 1.788 | 0.10 | 19.67 | 99.28 | 29 | 10 | 236 | 1340 | 71 | 690 | 40 | 230 | 11 | 1 | < 5 |
| 87642 | < 5 | 2.82 | 0.11 | 9.20 | 0.174 | 14.32 | 30.16 | 0.04 | 0.01 | 0.035 | 5.75 | 33.43 | 96.06 | 18 | 28 | 58 | < 20 | 29 | < 20 | < 10 | 50 | 3 | < 1 | 9 |
| 87643 | 8 | 1.13 | 0.26 | 8.07 | 0.328 | 13.75 | 31.67 | 0.05 | 0.21 | 0.042 | 6.62 | 35.49 | 97.61 | 15 | 1 | 58 | < 20 | 23 | 20 | < 10 | 100 | 4 | < 1 | 8 |
| 87644 | < 5 | 1.57 | 0.45 | 7.79 | 0.457 | 14.23 | 32.12 | 0.18 | 0.16 | 0.020 | 4.95 | 36.58 | 98.51 | 24 | < 1 | 18 | < 20 | 11 | < 20 | < 10 | 60 | 3 | < 1 | 5 |
| 87645 | < 5 | 7.90 | 1.18 | 1.74 | 0.048 | 11.45 | 38.81 | 0.03 | 0.93 | 0.042 | 12.91 | 24.89 | 99.94 | 2 | 10 | 47 | < 20 | < 1 | < 20 | 50 | 60 | 2 | < 1 | < 5 |
| 87646 | 26 | 58.64 | 13.02 | 2.73 | 0.058 | 1.39 | 2.97 | 0.90 | 9.01 | 2.942 | 0.14 | 3.04 | 94.86 | 29 | 3235 | 103 | 30 | 3 | < 20 | 20 | 80 | 40 | 3 | 10 |
| 87647 | < 5 | 99.61 | 0.17 | 0.35 | 0.002 | 0.06 | 2.20 | 0.06 | 0.03 | 0.024 | 0.07 | 0.14 | 100.7 | < 1 | 8 | < 5 | 20 | < 1 | < 20 | 30 | 60 | < 1 | 1 | < 5 |
| 87648 | < 5 | 5.44 | 1.60 | 3.19 | 0.123 | 17.81 | 27.83 | 0.05 | 1.35 | 0.272 | 0.17 | 42.07 | 99.90 | 9 | 2 | 67 | 150 | 10 | 40 | < 10 | < 30 | 2 | < 1 | < 5 |
| 87649 | 22 | 1.42 | 0.17 | 7.57 | 1.343 | 14.52 | 32.09 | 0.03 | 0.10 | 0.025 | 1.58 | 37.08 | 95.93 | 68 | 10 | 26 | < 20 | 12 | < 20 | 20 | 1030 | 18 | 4 | 37 |
| 87650 | < 5 | 54.87 | 15.25 | 8.20 | 0.053 | 1.32 | 1.93 | 2.17 | 10.19 | 0.730 | 0.14 | 4.70 | 99.56 | 6 | 3 | 41 | < 20 | 4 | < 20 | < 10 | 80 | 37 | 1 | < 5 |
| 87651 | 6 | 2.79 | 0.16 | 20.75 | 2.143 | 9.25 | 26.08 | 0.02 | 0.04 | 0.538 | 1.52 | 31.31 | 94.61 | 76 | 12 | 92 | < 20 | 12 | < 20 | 10 | 660 | 43 | 8 | 28 |
| 87652 | < 5 | 0.85 | 0.23 | 3.55 | 0.257 | 3.79 | 48.40 | 0.05 | 0.07 | 0.054 | 5.97 | 35.29 | 98.51 | 17 | 79 | 49 | < 20 | 3 | < 20 | 30 | 200 | 8 | 2 | 13 |
| 87653 | 9 | 8.29 | 2.34 | 4.70 | 0.321 | 6.33 | 37.40 | 1.29 | 0.15 | 0.088 | 18.36 | 17.75 | 97.01 | 20 | 80 | 57 | < 20 | 14 | < 20 | 20 | 110 | 32 | 5 | 23 |
| 87654 | < 5 | 0.62 | 0.15 | 5.11 | 0.950 | 14.63 | 34.74 | 0.07 | 0.11 | 0.079 | 6.06 | 36.10 | 98.62 | 34 | 6 | 36 | < 20 | | | | | | | |

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As |
|-----------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87655 | < 5 | 2.08 | 0.26 | 6.60 | 1.028 | 15.99 | 29.39 | 0.10 | 0.07 | 0.187 | 1.16 | 41.27 | 98.14 | 40 | 4 | 56 | < 20 | 5 | < 20 | 10 | 780 | 27 | 5 | 18 |
| 87656 | 9 | 1.93 | 0.03 | 13.90 | 1.929 | 11.56 | 28.67 | 0.03 | 0.02 | 0.193 | 1.91 | 33.55 | 93.73 | 61 | 43 | 81 | < 20 | 8 | < 20 | < 10 | 1320 | 44 | 8 | 26 |
| 87657 | < 5 | 2.02 | 0.04 | 14.71 | 1.909 | 11.49 | 28.06 | 0.02 | 0.02 | 0.602 | 0.68 | 34.55 | 94.10 | 57 | 8 | 122 | < 20 | 8 | < 20 | < 10 | 1220 | 41 | 7 | 26 |
| 87658 | < 5 | 1.14 | 0.24 | 5.78 | 0.415 | 12.24 | 36.28 | 0.05 | 0.20 | 0.029 | 11.01 | 31.80 | 99.20 | 15 | 1 | 34 | < 20 | 10 | 20 | 10 | 230 | 6 | 1 | 6 |
| 87659 | < 5 | 11.71 | 3.51 | 7.74 | 0.577 | 12.85 | 24.40 | 1.10 | 1.45 | 0.349 | 0.73 | 35.89 | 100.3 | 11 | < 1 | 151 | 50 | 8 | < 20 | < 10 | < 30 | 9 | < 1 | < 5 |
| 87660 | < 5 | 1.67 | 0.44 | 7.48 | 0.518 | 12.26 | 33.62 | 0.11 | 0.23 | 0.147 | 9.45 | 30.79 | 96.72 | 14 | 3 | 179 | < 20 | 9 | < 20 | 20 | 80 | 13 | 2 | 22 |
| 87661 | < 5 | 2.73 | 0.36 | 7.00 | 0.291 | 9.07 | 39.73 | 0.08 | 0.12 | 0.086 | 9.28 | 25.89 | 94.64 | 21 | 5 | 79 | 20 | 6 | < 20 | 10 | 90 | 6 | 1 | 6 |
| 87662 | < 5 | 6.91 | 1.61 | 3.79 | 0.150 | 17.25 | 28.66 | 0.21 | 1.01 | 0.563 | 0.27 | 40.01 | 100.4 | 11 | 2 | 119 | 460 | 21 | 50 | 10 | 60 | 2 | < 1 | 6 |
| 87663 | < 5 | 47.25 | 13.65 | 10.47 | 0.158 | 3.39 | 4.96 | 2.13 | 8.41 | 0.675 | 0.09 | 8.92 | 100.1 | 10 | 2 | 115 | < 20 | 15 | < 20 | 20 | 170 | 40 | 1 | < 5 |
| 87664 | < 5 | 51.09 | 23.13 | 6.72 | 0.063 | 1.83 | 4.92 | 4.69 | 3.70 | 1.192 | 0.30 | 2.42 | 100.1 | 9 | 2 | 62 | 20 | 19 | < 20 | 60 | 60 | 19 | 1 | < 5 |
| 87665 | < 5 | 23.78 | 4.93 | 16.80 | 0.793 | 9.88 | 13.40 | 2.09 | 1.27 | 1.143 | 0.21 | 26.32 | 100.6 | 26 | 15 | 156 | 540 | 49 | 310 | 60 | 270 | 16 | 2 | 7 |
| 83383 | < 5 | 10.26 | 3.56 | 9.13 | 0.523 | 11.86 | 24.23 | 0.58 | 1.19 | 0.455 | 2.14 | 33.40 | 97.33 | 16 | 2 | 114 | 80 | 16 | < 20 | < 10 | 150 | 12 | 1 | 6 |
| 83384 | < 5 | 55.55 | 2.42 | 5.27 | 0.303 | 5.65 | 12.30 | 0.06 | 0.92 | 0.269 | 0.83 | 17.25 | 100.8 | 9 | 2 | 70 | 40 | 6 | < 20 | 90 | 130 | 7 | 1 | < 5 |
| 83385 | < 5 | 41.83 | 11.18 | 11.96 | 0.176 | 6.98 | 7.73 | 4.57 | 2.27 | 2.374 | 0.30 | 10.87 | 100.2 | 42 | 7 | 451 | 640 | 54 | 120 | 90 | 100 | 16 | 2 | < 5 |
| 83386 | < 5 | 44.08 | 14.84 | 22.23 | 0.064 | 2.80 | 1.40 | 2.08 | 5.94 | 4.414 | 0.35 | 2.63 | 100.8 | 32 | 14 | 519 | 50 | 48 | < 20 | < 10 | 100 | 29 | 3 | < 5 |
| 83387 | < 5 | 47.05 | 13.30 | 16.27 | 0.129 | 2.69 | 3.97 | 7.38 | 0.95 | 3.450 | 0.80 | 4.52 | 100.5 | 16 | 1 | 222 | 40 | 38 | < 20 | 60 | 90 | 26 | 2 | < 5 |
| 83388 | < 5 | 42.01 | 12.16 | 17.68 | 0.252 | 4.53 | 6.10 | 2.84 | 1.98 | 3.989 | 0.35 | 8.27 | 100.2 | 25 | 3 | 381 | 50 | 63 | < 20 | 60 | 140 | 27 | 2 | < 5 |
| 83389 | < 5 | 64.14 | 16.99 | 4.57 | 0.042 | 0.45 | 0.65 | 7.33 | 2.89 | 0.990 | 0.18 | 1.35 | 99.58 | 4 | 2 | 48 | < 20 | 3 | < 20 | < 10 | < 30 | 42 | 2 | < 5 |
| 83390 | < 5 | 8.61 | 2.43 | 7.63 | 0.260 | 14.39 | 24.03 | 0.53 | 0.88 | 3.745 | 0.16 | 36.52 | 99.19 | 9 | 2 | 217 | 380 | 19 | < 20 | 20 | 50 | 8 | < 1 | 6 |
| 83391 | < 5 | 4.70 | 1.92 | 10.85 | 0.539 | 9.12 | 22.34 | 0.05 | 0.87 | 0.234 | 2.16 | 36.28 | 89.07 | 10 | 1 | 71 | 30 | 16 | 20 | < 10 | 100 | 7 | < 1 | < 5 |
| 83392 | < 5 | 95.38 | 0.94 | 1.79 | 0.012 | 0.10 | 0.23 | 0.26 | 0.21 | 0.117 | 0.08 | 0.75 | 99.87 | < 1 | < 1 | 8 | 20 | 18 | < 20 | 640 | 430 | 3 | 1 | < 5 |
| 83393 | < 5 | 61.37 | 16.92 | 3.88 | 0.062 | 0.93 | 1.91 | 8.33 | 1.22 | 0.906 | 0.09 | 3.28 | 98.91 | 7 | 2 | 42 | 20 | 4 | < 20 | < 10 | < 30 | 42 | 2 | < 5 |
| 83394 | < 5 | 45.19 | 12.52 | 12.73 | 0.242 | 7.65 | 5.76 | 3.62 | 0.80 | 2.370 | 0.29 | 9.10 | 100.3 | 36 | 2 | 274 | 740 | 66 | 150 | < 10 | 130 | 19 | 2 | < 5 |
| 83395 | 6 | 49.65 | 13.60 | 15.37 | 0.155 | 5.43 | 2.40 | 0.94 | 2.87 | 3.503 | 0.40 | 5.42 | 99.73 | 33 | 4 | 294 | 100 | 50 | < 20 | 240 | 120 | 24 | 2 | < 5 |
| 83396 | < 5 | 63.77 | 17.47 | 4.82 | 0.052 | 0.54 | 0.69 | 7.17 | 3.16 | 1.027 | 0.04 | 1.44 | 100.2 | 5 | 2 | 37 | < 20 | 6 | < 20 | 80 | 40 | 43 | 2 | < 5 |
| 83397 | 7 | 12.42 | 3.71 | 9.63 | 0.542 | 11.35 | 23.19 | 0.83 | 1.20 | 0.382 | 2.09 | 31.40 | 96.75 | 20 | 2 | 128 | 60 | 29 | 40 | 30 | 200 | 11 | 2 | 6 |
| 83398 | < 5 | 43.45 | 13.84 | 10.88 | 0.136 | 3.72 | 6.39 | 3.93 | 4.68 | 3.940 | 0.50 | 8.54 | 100.0 | 33 | 7 | 374 | 50 | 72 | < 20 | 50 | 230 | 26 | 2 | < 5 |
| 83399 | < 5 | 50.30 | 10.74 | 21.05 | 0.271 | 3.53 | 7.11 | 2.32 | 0.07 | 1.922 | 0.19 | 2.94 | 100.5 | 45 | < 1 | 527 | < 20 | 56 | < 20 | 30 | 140 | 27 | 2 | < 5 |
| 83400 | < 5 | 60.18 | 16.64 | 4.27 | 0.060 | 0.99 | 1.31 | 3.04 | 9.82 | 0.938 | 0.12 | 1.92 | 99.29 | 5 | 2 | 87 | 40 | 9 | < 20 | 150 | 30 | 41 | 1 | < 5 |
| 87673 | < 5 | 95.20 | 1.74 | 0.69 | 0.007 | 0.10 | 0.62 | 0.38 | 0.99 | 0.108 | 0.02 | 0.54 | 100.4 | < 1 | < 1 | 8 | 30 | 1 | < 20 | 10 | < 30 | 5 | < 1 | < 5 |
| 87674 | 6 | 48.00 | 13.67 | 10.16 | 0.171 | 11.02 | 10.24 | 3.07 | 0.25 | 1.253 | 0.10 | 2.13 | 100.1 | 47 | < 1 | 279 | 900 | 53 | 240 | 100 | 70 | 15 | 2 | < 5 |
| 87675 | 18 | 47.00 | 18.18 | 7.99 | 0.122 | 2.08 | 10.14 | 5.46 | 0.89 | 2.055 | 0.40 | 5.05 | 99.37 | 17 | 1 | 123 | 40 | 27 | < 20 | 90 | 80 | 22 | 2 | < 5 |
| 87676 | < 5 | 41.54 | 14.02 | 16.41 | 0.114 | 4.27 | 3.92 | 1.66 | 8.30 | 4.075 | 0.26 | 4.45 | 99.02 | 13 | 16 | 180 | 50 | 35 | 90 | 350 | 220 | 24 | 2 | < 5 |
| 87677 | < 5 | 40.80 | 11.88 | 9.20 | 0.229 | 6.30 | 8.18 | 0.19 | 10.31 | 3.848 | 0.13 | 7.87 | 98.94 | 22 | 5 | 175 | 50 | 31 | 90 | 10 | 130 | 19 | 1 | < 5 |
| 87678 | < 5 | 37.84 | 10.92 | 6.97 | 0.125 | 5.50 | 11.29 | 0.22 | 9.67 | 1.800 | 2.76 | 12.60 | 99.70 | 11 | 7 | 152 | 50 | 9 | 30 | 50 | 230 | 21 | < 1 | < 5 |
| 87679 | < 5 | 62.70 | 16.06 | 3.54 | 0.054 | 0.71 | 1.10 | 3.70 | 8.76 | 0.818 | 0.15 | 2.00 | 99.59 | 4 | 4 | 24 | < 20 | 3 | < 20 | < 10 | 50 | 41 | < 1 | < 5 |
| 87680 | < 5 | 8.42 | 2.30 | 41.98 | 0.694 | 8.31 | 13.14 | 0.05 | 2.21 | 0.116 | 1.83 | 18.03 | 97.08 | 34 | 3 | 111 | < 20 | 28 | < 20 | < 10 | 320 | 20 | 1 | < 5 |
| 87681 | < 5 | 9.20 | 2.40 | 27.33 | 0.406 | 11.37 | 17.87 | 0.03 | 2.35 | 0.272 | 2.61 | 21.65 | 95.50 | 43 | 13 | 135 | 70 | 18 | 30 | 40 | 350 | 10 | 1 | < 5 |
| 87682 | < 5 | 46.93 | 13.81 | 7.75 | 0.120 | 2.73 | 5.61 | 1.01 | 10.38 | 2.958 | 1.25 | 6.51 | 99.05 | 17 | 5 | 243 | 30 | 16 | < 20 | 20 | 100 | 26 | 1 | < 5 |
| 87683 | < 5 | 56.04 | 16.14 | 5.45 | 0.052 | 1.78 | 2.43 | 0.38 | 13.57 | 0.809 | 0.10 | 3.93 | 100.7 | 4 | 2 | 41 | 20 | 5 | < 20 | 40 | 70 | 35 | < 1 | < 5 |
| 87684 | < 5 | 40.21 | 11.92 | 16.98 | 0.346 | 3.78 | 6.11 | 5.54 | 2.18 | 3.747 | 0.37 | 8.59 | 99.77 | 22 | 15 | 372 | 40 | 50 | 80 | 570 | 170 | 21 | 1 | < 5 |
| 87685 | < 5 | 1.73 | 0.23 | 23.67 | 0.344 | 2.13 | 38.75 | 0.09 | 0.02 | 0.536 | 4.75 | 26.87 | 99.13 | 7 | 2 | 434 | < 20 | 11 | 20 | 30 | 90 | 4 | 1 | < 5 |
| 87686 | < 5 | 15.07 | 3.76 | 28.87 | 1.031 | 6.83 | 16.76 | 0.41 | 0.14 | 2.058 | 5.77 | 17.54 | 98.24 | 36 | 9 | 532 | 200 | 50 | 80 | 120 | 180 | 13 | 3 | 6 |
| 87687 | < 5 | 41.63 | 11.29 | 12.27 | 0.161 | 3.93 | 6.89 | 0.21 | 9.31 | 3.521 | 0.42 | 9.42 | 99.06 | 19 | 4 | 136 | 50 | 48 | 70 | 180 | 90 | 18 | < 1 | < 5 |
| 87688 | < 5 | 4.12 | 0.32 | 9.09 | 0.765 | 7.84 | 37.05 | 0.08 | 0.22 | 0.055 | 15.19 | 24.08 | 98.79 | 11 | < 1 | 67 | < 20 | 7 | 20 | 20 | 100 | 8 | 2 | 12 |
| 87689 | < 5 | 43.96 | 11.77 | 11.33 | 0.184 | 14.67 | 10.95 | 1.54 | 0.45 | 1.086 | 0.16 | 2.82 | 98.94 | 36 | 1 | 269 | 1200 | 61 | 360 | < 10 | 80 | 12 | 2 | < 5 |
| 87690 | 26 | 8.59 | 2.61 | 7.93 | 0.792 | 13.84 | 27.34 | 0.16 | 1.42 | 0.256 | 3.70 | 30.59 | 97.23 | 10 | 5 | 161 | 30 | 5 | < 20 | 10 | 340 | 13 | < 1 | 12 |
| 87691 | < 5 | 36.17 | 8.21 | 13.89 | 0.518 | 6.98 | 12.45 | 2.56 | 3.78 | 1.275 | 0.11 | 10.93 | 96.87 | 23 | 22 | 118 | 390 | 48 | 240 | 80 | 160 | 23 | 2 | 10 |
| 87692 | < 5 | 48.04 | 21.06 | 9.04 | 0.129 | 4.66 | 7.28 | 4.34 | 1.27 | 1.464 | 0.14 | 2.13 | 99.56 | 15 | 1 | 125 | 40 | 31 | 50 | < 10 | 60 | 16 | 2 | < 5 |
| 87693 | < 5 | 44.86 | 17.23 | 13.38 | 0.165 | 6.69 | 6.99 | 3.32 | 1.49 | 2.025 | 0.18 | 2.55 | 98.88 | 27 | 1 | 221 | 50 | 37 | 50 | 180 | 80 | 19 | 1 | < 5 |
| 87694 | < 5 | 26.46 | 8.33 | 10.74 | 0.301 | 6.34 | 23.07 | 0.76 | 1.13 | 3.810 | 0.93 | 17.76 | 99.63 | 24 | 1 | 296 | 270 | 33 | 120 | 30 | 90 | 15 | 1 | < 5 |
| 87695 | < 5 | 92.04 | 0.33 | 0.69 | 0.016 | 0.17 | 2.89 | 0.07 | 0.01 | 0.026 | < 0.01 | 2.38 | 98.64 | 1 | < 1 | 9 | 20 | < 1 | < 20 | < 10 | 60 | < 1 | < | |

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| Analyte Symbol | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm |
|-----------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 |
| Analysis Method | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 67751 | < 2 | 1382 | 359 | 70 | < 2 | < 0.5 | < 0.2 | < 1 | 1.0 | < 0.5 | 14 | < 0.4 | 613 | 1100 | 123 | 425 | 70.2 | 22.7 | 66.9 | 11.7 | 69.5 | 13.2 | 36.4 | 4.86 |
| 67752 | 46 | 861 | 36 | 69 | < 2 | < 0.5 | < 0.2 | 3 | 1.3 | 0.9 | 284 | < 0.4 | 33.4 | 67.6 | 7.80 | 30.6 | 7.6 | 2.89 | 8.9 | 1.4 | 7.9 | 1.4 | 3.9 | 0.61 |
| 67753 | 47 | 398 | 24 | 205 | < 2 | 0.5 | < 0.2 | 2 | 1.9 | 2.3 | 556 | < 0.4 | 39.2 | 82.0 | 9.90 | 38.9 | 7.7 | 2.34 | 6.4 | 1.0 | 5.5 | 1.0 | 2.9 | 0.41 |
| 67754 | 56 | 323 | 18 | 70 | < 2 | < 0.5 | < 0.2 | < 1 | 1.3 | < 0.5 | 824 | < 0.4 | 14.2 | 29.2 | 3.51 | 14.2 | 3.0 | 1.06 | 3.2 | 0.6 | 3.6 | 0.8 | 2.4 | 0.34 |
| 67755 | 31 | 403 | 75 | 236 | < 2 | 0.7 | < 0.2 | 5 | 1.7 | 1.7 | 436 | < 0.4 | 80.9 | 163 | 19.3 | 75.3 | 15.3 | 4.97 | 15.2 | 2.7 | 15.9 | 3.0 | 8.4 | 1.18 |
| 67756 | 102 | 63 | 53 | 267 | 31 | 0.8 | < 0.2 | 3 | 2.3 | < 0.5 | 529 | < 0.4 | 119 | 258 | 27.8 | 102 | 15.6 | 3.79 | 12.3 | 1.7 | 9.7 | 2.0 | 6.2 | 1.01 |
| 67757 | 17 | 1270 | 72 | 472 | < 2 | 1.4 | < 0.2 | 3 | 1.9 | 0.5 | 1374 | < 0.4 | 239 | 486 | 56.6 | 209 | 32.7 | 9.42 | 23.5 | 3.0 | 15.3 | 2.7 | 7.3 | 1.05 |
| 67758 | 72 | 1408 | 77 | 601 | 2 | 1.8 | < 0.2 | 4 | 1.6 | 3.7 | 1093 | < 0.4 | 296 | 560 | 70.6 | 260 | 41.9 | 11.7 | 29.8 | 3.8 | 18.7 | 3.2 | 7.8 | 1.04 |
| 67759 | 55 | 448 | 123 | 152 | < 2 | 0.7 | < 0.2 | 3 | 1.8 | 0.5 | 711 | < 0.4 | 50.1 | 111 | 14.1 | 62.8 | 18.0 | 5.89 | 20.4 | 3.5 | 22.5 | 4.6 | 13.5 | 1.97 |
| 67760 | 32 | 414 | 22 | 79 | < 2 | < 0.5 | < 0.2 | < 1 | 1.5 | < 0.5 | 1134 | < 0.4 | 19.9 | 40.8 | 4.75 | 19.0 | 4.1 | 1.36 | 4.2 | 0.7 | 4.4 | 0.9 | 2.8 | 0.40 |
| 67761 | 31 | 2562 | 391 | 306 | 3 | 1.0 | < 0.2 | 1 | 1.6 | 0.7 | 258 | < 0.4 | 238 | 473 | 55.4 | 209 | 40.6 | 13.8 | 41.9 | 8.2 | 58.5 | 13.6 | 44.8 | 6.87 |
| 83376 | 17 | 686 | 56 | 73 | < 2 | < 0.5 | < 0.2 | 5 | 1.1 | 1.6 | 147 | < 0.4 | 66.3 | 145 | 16.9 | 63.9 | 11.6 | 3.50 | 10.4 | 1.8 | 10.9 | 2.3 | 6.2 | 0.90 |
| 83377 | 8 | 1152 | 58 | 154 | 10 | < 0.5 | < 0.2 | 1 | 1.6 | 0.9 | 103 | < 0.4 | 562 | 964 | 106 | 359 | 54.0 | 14.9 | 37.3 | 4.1 | 17.5 | 2.6 | 6.3 | 0.76 |
| 83378 | 5 | 1258 | 25 | 29 | 13 | < 0.5 | < 0.2 | 1 | 1.6 | < 0.5 | 63 | < 0.4 | 514 | 890 | 104 | 363 | 42.4 | 9.08 | 18.3 | 1.6 | 6.4 | 1.0 | 2.8 | 0.40 |
| 83379 | 61 | 476 | 24 | 150 | < 2 | < 0.5 | < 0.2 | 3 | 1.8 | 3.1 | 1204 | 1.3 | 28.8 | 61.1 | 7.23 | 28.6 | 5.8 | 1.84 | 5.2 | 0.9 | 5.0 | 1.0 | 3.0 | 0.44 |
| 83380 | < 2 | 2099 | 54 | 50 | < 2 | < 0.5 | < 0.2 | 2 | 1.1 | < 0.5 | 204 | < 0.4 | 629 | 1080 | 120 | 407 | 55.7 | 13.7 | 31.0 | 3.2 | 13.5 | 2.3 | 6.2 | 0.83 |
| 83381 | 6 | 5735 | 855 | 296 | < 2 | 0.8 | < 0.2 | 2 | 1.1 | < 0.5 | 416 | < 0.4 | 620 | 1250 | 160 | 633 | 154 | 56.9 | 178 | 32.2 | 186 | 34.6 | 85.2 | 10.5 |
| 83382 | 65 | 488 | 71 | 209 | < 2 | 0.6 | < 0.2 | 3 | 2.1 | 1.3 | 863 | < 0.4 | 71.6 | 149 | 17.5 | 70.3 | 14.5 | 4.29 | 12.7 | 2.0 | 12.8 | 2.6 | 7.5 | 1.14 |
| 87666 | 32 | 1418 | 56 | 89 | 7 | < 0.5 | < 0.2 | 7 | 1.6 | 0.6 | 423 | 0.4 | 973 | 1820 | 176 | 640 | 78.3 | 17.1 | 35.4 | 3.7 | 15.2 | 2.5 | 6.5 | 0.81 |
| 87667 | < 2 | 1723 | 135 | 86 | < 2 | < 0.5 | < 0.2 | < 1 | 1.0 | < 0.5 | 147 | < 0.4 | 293 | 633 | 84.1 | 324 | 57.5 | 17.0 | 46.2 | 6.5 | 32.5 | 5.6 | 13.3 | 1.55 |
| 87668 | < 2 | 1053 | 59 | 82 | < 2 | < 0.5 | < 0.2 | < 1 | 1.1 | < 0.5 | 47 | < 0.4 | 328 | 636 | 78.3 | 275 | 37.3 | 9.79 | 24.6 | 3.1 | 14.7 | 2.6 | 6.5 | 0.81 |
| 87669 | 29 | 988 | 248 | 438 | < 2 | < 0.5 | < 0.2 | 1 | 1.6 | 0.6 | 190 | < 0.4 | 150 | 319 | 39.6 | 160 | 35.4 | 12.3 | 37.3 | 6.4 | 42.6 | 9.1 | 27.3 | 3.84 |
| 87670 | 8 | 3902 | 127 | 77 | < 2 | < 0.5 | < 0.2 | < 1 | 1.0 | < 0.5 | 1184 | < 0.4 | 524 | 1070 | 132 | 476 | 65.5 | 17.5 | 44.6 | 6.1 | 29.9 | 5.1 | 12.8 | 1.55 |
| 87671 | 9 | 5498 | 88 | 75 | < 2 | < 0.5 | < 0.2 | < 1 | 1.1 | < 0.5 | 536 | < 0.4 | 547 | 1200 | 152 | 552 | 73.7 | 19.0 | 46.3 | 5.5 | 24.1 | 3.8 | 8.9 | 1.06 |
| 87672 | 45 | 736 | 14 | 103 | < 2 | < 0.5 | < 0.2 | 1 | 1.0 | 1.5 | 1139 | < 0.4 | 22.8 | 49.0 | 5.84 | 22.7 | 4.1 | 1.56 | 3.5 | 0.5 | 2.9 | 0.5 | 1.4 | 0.20 |
| 28175 | 16 | 1959 | 771 | 65 | 30 | < 0.5 | 1.1 | 13 | 1.0 | 1.1 | 1189 | 2.4 | 5210 | 9030 | 817 | 2620 | 429 | 135 | 363 | 43.1 | 190 | 28.9 | 59.5 | 5.61 |
| 87629 | < 2 | 2276 | 308 | 412 | 2 | 1.2 | < 0.2 | 3 | 1.5 | < 0.5 | 434 | < 0.4 | 848 | 2330 | 291 | 1120 | 176 | 51.0 | 126 | 16.6 | 77.4 | 12.4 | 27.8 | 3.04 |
| 87630 | < 2 | 1033 | 113 | 306 | < 2 | 0.9 | < 0.2 | 2 | 0.9 | < 0.5 | 55 | < 0.4 | 543 | 1260 | 165 | 616 | 88.6 | 23.3 | 57.2 | 7.0 | 30.8 | 4.8 | 11.5 | 1.37 |
| 87631 | 5 | 890 | 166 | 184 | < 2 | 0.6 | < 0.2 | 1 | 1.0 | < 0.5 | 101 | < 0.4 | 440 | 1030 | 139 | 527 | 79.5 | 22.3 | 59.3 | 8.7 | 44.7 | 7.3 | 15.7 | 1.72 |
| 87632 | < 2 | 1750 | 166 | 620 | < 2 | 1.6 | < 0.2 | 2 | 0.9 | < 0.5 | 165 | < 0.4 | 996 | 2660 | 346 | 1390 | 186 | 46.8 | 115 | 12.4 | 53.3 | 7.8 | 16.5 | 1.76 |
| 87633 | 4 | 1530 | 224 | 332 | 2 | 1.1 | < 0.2 | < 1 | 1.7 | < 0.5 | 244 | < 0.4 | 1060 | 2430 | 297 | 1080 | 148 | 40.4 | 99.6 | 12.7 | 60.0 | 10.0 | 24.0 | 2.76 |
| 87634 | < 2 | 1228 | 78 | 228 | < 2 | 0.8 | < 0.2 | 3 | 1.2 | < 0.5 | 311 | < 0.4 | 550 | 1340 | 164 | 591 | 77.2 | 19.7 | 46.4 | 5.4 | 23.1 | 3.5 | 8.1 | 0.96 |
| 87635 | 4 | 4261 | 97 | 309 | < 2 | 0.9 | < 0.2 | 2 | 0.9 | < 0.5 | 329 | < 0.4 | 622 | 1490 | 181 | 648 | 85.2 | 22.8 | 52.7 | 6.3 | 27.7 | 4.3 | 9.8 | 1.18 |
| 87636 | 4 | 2167 | 273 | 45 | < 2 | < 0.5 | < 0.2 | 4 | 1.3 | < 0.5 | 711 | 1.3 | 5890 | 7610 | 577 | 1610 | 161 | 45.3 | 144 | 15.7 | 70.5 | 11.7 | 29.5 | 3.50 |
| 87637 | 6 | 2274 | 1222 | 584 | 30 | 1.8 | < 0.2 | 3 | 1.8 | < 0.5 | 197 | 0.4 | 1230 | 2370 | 286 | 1030 | 179 | 56.7 | 163 | 28.7 | 189 | 43.2 | 134 | 20.6 |
| 87638 | 21 | 1286 | 226 | 1110 | < 2 | 1.8 | < 0.2 | 3 | 1.2 | 0.5 | 452 | < 0.4 | 503 | 1000 | 122 | 457 | 80.6 | 24.7 | 61.6 | 8.9 | 48.7 | 9.1 | 23.4 | 3.13 |
| 87639 | 27 | 671 | 41 | 295 | < 2 | 1.2 | < 0.2 | 2 | 1.4 | < 0.5 | 223 | < 0.4 | 54.7 | 113 | 13.3 | 51.4 | 9.2 | 3.06 | 7.8 | 1.4 | 8.4 | 1.6 | 4.4 | 0.59 |
| 87640 | 4 | 2576 | 218 | 18 | < 2 | < 0.5 | < 0.2 | 1 | 1.1 | < 0.5 | 309 | < 0.4 | 5500 | 6290 | 454 | 1290 | 131 | 35.4 | 102 | 10.8 | 47.4 | 7.9 | 20.8 | 2.49 |
| 87641 | 69 | 1305 | 51 | 192 | 6 | 0.7 | < 0.2 | 5 | 1.4 | 4.9 | 1561 | < 0.4 | 84.6 | 162 | 18.3 | 69.1 | 14.5 | 5.01 | 13.1 | 2.0 | 11.1 | 1.9 | 5.0 | 0.70 |
| 87642 | < 2 | 1433 | 61 | 172 | < 2 | 0.7 | < 0.2 | 2 | 1.7 | < 0.5 | 129 | < 0.4 | 314 | 671 | 89.8 | 346 | 54.4 | 14.9 | 37.0 | 4.5 | 19.2 | 2.9 | 6.5 | 0.73 |
| 87643 | 2 | 1452 | 318 | 41 | 25 | < 0.5 | < 0.2 | < 1 | 1.4 | < 0.5 | 146 | < 0.4 | 336 | 730 | 97.4 | 379 | 71.4 | 23.6 | 68.4 | 12.3 | 69.9 | 12.6 | 31.0 | 3.65 |
| 87644 | < 2 | 2084 | 83 | 45 | < 2 | < 0.5 | < 0.2 | < 1 | 1.4 | < 0.5 | 133 | < 0.4 | 371 | 774 | 101 | 382 | 57.2 | 15.5 | 39.0 | 4.7 | 21.4 | 3.3 | 7.9 | 0.96 |
| 87645 | 26 | 542 | 91 | 144 | < 2 | < 0.5 | < 0.2 | < 1 | 1.9 | 1.1 | 626 | < 0.4 | 26.4 | 20.2 | 4.05 | 17.8 | 3.3 | 1.28 | 4.7 | 0.8 | 5.9 | 1.5 | 4.8 | 0.72 |
| 87646 | 80 | 202 | 783 | 27060 | 4 | < 0.2 | < 0.2 | 4 | 10.4 | 0.7 | 621 | < 0.4 | 127 | 243 | 26.4 | 99.6 | 15.6 | 9.92 | 53.2 | 16.7 | 133 | 28.8 | 84.8 | 13.2 |
| 87647 | < 2 | 10 | < 2 | 141 | < 2 | < 0.5 | < 0.2 | < 1 | 1.7 | < 0.5 | 5 | < 0.4 | 2.0 | 4.0 | 0.43 | 1.6 | 0.2 | 0.08 | 0.2 | < 0.1 | 0.2 | < 0.1 | 0.1 | < 0.05 |
| 87648 | 7 | 311 | 47 | 55 | < 2 | < 0.5 | < 0.2 | < 1 | 1.6 | < 0.5 | 47 | < 0.4 | 6.2 | 15.5 | 2.02 | 10.0 | 3.0 | 1.04 | 4.2 | 1.0 | 7.4 | 1.7 | 4.8 | 0.68 |
| 87649 | 3 | 1419 | 370 | 99 | 52 | < 0.5 | < 0.2 | 3 | 2.9 | < 0.5 | 242 | 1.7 | 816 | 2820 | 363 | 1320 | 173 | 45.1 | 118 | 17.4 | 87.9 | 14.9 | 33.8 | 3.75 |
| 87650 | 108 | 94 | 127 | 1489 | < 2 | < 0.2 | < 0.2 | 5 | 2.0 | < 0.5 | 92 | < 0.4 | 139 | 291 | 33.1 | 128 | 21.0 | 4.56 | 18.1 | 3.2 | 20.8 | 4.6 | 14.5 | 2.45 |
| 87651 | < 2 | 1713 | 733 | 33 | 6 | < 0.5 | 0.2 | 50 | 2.4 | < 0.5 | 197 | 3.2 | 3580 | 7420 | 791 | 2830 | 545 | 175 | 461 | 57.8 | 228 | 29.1 | 55.5 | 5.63 |
| 87652 | < 2 | 3003 | 153 | 247 | < 2 | 0.7 | < 0.2 | 3 | 1.5 | < 0.5 | 451 | < 0.4 | 503 | 1270 | 151 | 629 | 98.3 | 26.2 | 64.2 | 8.1 | 38.9 | 6.3 | 15.0 | 1.76 |
| 87653 | < 2 | 3431 | 300 | 266 | 11 | 0.7 | < 0.2 | 5 | 3.1 | < 0.5 | 444 | < 0.4 | 1650 | 4080 | 495 | 2000 | 302 | 78.0 | 182 | 22.8 | 95.7 | 13.6 | 27.9 | 3.03 |
| 87654 | 3 | 3477 | 656 | 36 | 4 | < 0.5 | < 0.2 | 6 | 1.7 | < 0.5 | 170 | 0.4 | 1160 | 2870 | 367 | 1560 | 255 | | | | | | | |

Activation Laboratories Ltd. Report: A10-5392

| Analyte Symbol | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm |
|-----------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 |
| Analysis Method | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87655 | < 2 | 3057 | 211 | 49 | 4 | < 0.5 | < 0.2 | 14 | 1.7 | < 0.5 | 182 | 1.1 | 2070 | 4430 | 505 | 1930 | 261 | 61.9 | 129 | 14.0 | 58.9 | 8.4 | 18.7 | 2.28 |
| 87656 | < 2 | 2491 | 391 | 79 | 24 | 0.6 | 0.2 | 19 | 2.1 | < 0.5 | 332 | 2.5 | 4260 | 8040 | 823 | 2820 | 383 | 97.0 | 213 | 25.7 | 103 | 14.3 | 30.4 | 3.41 |
| 87657 | < 2 | 2290 | 260 | 25 | 8 | < 0.5 | 0.2 | 50 | 2.4 | < 0.5 | 214 | 3.4 | 3780 | 7320 | 775 | 2720 | 367 | 94.7 | 208 | 21.7 | 80.7 | 9.7 | 18.4 | 1.98 |
| 87658 | < 2 | 1948 | 195 | 115 | 16 | < 0.5 | < 0.2 | < 1 | 1.8 | < 0.5 | 202 | < 0.4 | 296 | 760 | 97.6 | 449 | 95.1 | 28.8 | 81.8 | 10.6 | 53.1 | 8.6 | 18.8 | 2.09 |
| 87659 | 13 | 1070 | 67 | 78 | 20 | < 0.5 | < 0.2 | 1 | 1.4 | < 0.5 | 92 | < 0.4 | 655 | 1190 | 110 | 374 | 45.4 | 10.3 | 25.7 | 3.1 | 15.1 | 2.7 | 7.4 | 0.98 |
| 87660 | 5 | 1361 | 224 | 289 | 4 | 0.7 | < 0.2 | 2 | 1.9 | < 0.5 | 146 | < 0.4 | 792 | 1910 | 218 | 873 | 126 | 33.2 | 81.0 | 10.5 | 54.3 | 9.4 | 22.7 | 2.75 |
| 87661 | < 2 | 1579 | 253 | 143 | < 2 | < 0.5 | < 0.2 | 3 | 1.1 | < 0.5 | 177 | < 0.4 | 287 | 772 | 97.6 | 440 | 87.6 | 25.3 | 68.3 | 9.6 | 52.5 | 10.0 | 29.1 | 4.17 |
| 87662 | 19 | 389 | 66 | 88 | 231 | < 0.5 | < 0.2 | < 1 | 2.0 | < 0.5 | 69 | < 0.4 | 11.2 | 26.1 | 3.39 | 16.5 | 4.5 | 1.49 | 5.0 | 1.1 | 8.2 | 2.2 | 8.1 | 1.59 |
| 87663 | 113 | 227 | 96 | 741 | 6 | 1.8 | < 0.2 | 8 | 1.8 | < 0.5 | 190 | < 0.4 | 78.2 | 166 | 18.8 | 71.2 | 10.4 | 2.49 | 9.4 | 1.9 | 14.4 | 3.5 | 12.1 | 1.96 |
| 87664 | 66 | 561 | 20 | 202 | < 2 | < 0.5 | < 0.2 | 1 | 1.5 | 0.5 | 1026 | < 0.4 | 35.3 | 70.2 | 8.16 | 34.6 | 6.3 | 1.98 | 5.2 | 0.8 | 4.1 | 0.8 | 2.1 | 0.30 |
| 87665 | 18 | 995 | 195 | 45 | 7 | < 0.5 | < 0.2 | 4 | 1.9 | < 0.5 | 163 | < 0.4 | 143 | 536 | 98.1 | 622 | 122 | 21.8 | 38.0 | 5.0 | 28.0 | 6.3 | 22.4 | 3.24 |
| 83383 | 28 | 1154 | 115 | 257 | 6 | 0.6 | < 0.2 | 3 | 1.3 | < 0.5 | 245 | 0.6 | 457 | 853 | 90.0 | 349 | 55.1 | 14.3 | 35.9 | 4.9 | 24.3 | 4.3 | 11.7 | 1.52 |
| 83384 | 16 | 536 | 47 | 140 | < 2 | < 0.5 | < 0.2 | 5 | 1.6 | < 0.5 | 289 | < 0.4 | 104 | 202 | 22.2 | 87.8 | 14.8 | 4.13 | 11.3 | 1.6 | 9.2 | 1.7 | 4.7 | 0.64 |
| 83385 | 46 | 462 | 17 | 299 | < 2 | 0.7 | < 0.2 | 2 | 2.1 | 0.8 | 194 | < 0.4 | 41.4 | 86.2 | 10.3 | 43.3 | 6.6 | 1.82 | 4.3 | 0.6 | 3.2 | 0.6 | 1.8 | 0.28 |
| 83386 | 148 | 79 | 23 | 161 | < 2 | < 0.5 | < 0.2 | 1 | 2.2 | 1.2 | 708 | < 0.4 | 33.7 | 73.5 | 9.23 | 41.5 | 8.0 | 2.39 | 6.7 | 1.0 | 5.2 | 0.9 | 2.7 | 0.39 |
| 83387 | 28 | 324 | 34 | 264 | < 2 | 0.6 | < 0.2 | 3 | 1.7 | 0.8 | 206 | < 0.4 | 54.4 | 119 | 14.8 | 65.9 | 12.6 | 3.88 | 10.6 | 1.5 | 7.8 | 1.4 | 3.8 | 0.53 |
| 83388 | 44 | 299 | 25 | 256 | < 2 | 0.6 | < 0.2 | 2 | 1.9 | 0.6 | 613 | < 0.4 | 32.3 | 74.1 | 9.67 | 44.5 | 9.1 | 2.73 | 7.8 | 1.1 | 5.7 | 1.0 | 2.7 | 0.35 |
| 83389 | 34 | 75 | 74 | 776 | < 2 | 1.8 | < 0.2 | 8 | 1.7 | < 0.5 | 256 | < 0.4 | 129 | 257 | 29.1 | 113 | 19.4 | 3.52 | 14.6 | 2.2 | 13.4 | 2.8 | 8.3 | 1.26 |
| 83390 | 19 | 634 | 24 | 171 | 28 | < 0.5 | < 0.2 | 4 | 2.1 | < 0.5 | 95 | < 0.4 | 16.9 | 37.7 | 4.18 | 17.7 | 3.6 | 1.09 | 4.0 | 0.7 | 4.0 | 0.8 | 2.4 | 0.34 |
| 83391 | 16 | 1124 | 60 | 81 | 13 | < 0.5 | < 0.2 | 2 | 1.0 | < 0.5 | 220 | < 0.4 | 161 | 337 | 37.7 | 155 | 25.9 | 7.15 | 20.0 | 2.6 | 13.5 | 2.3 | 5.2 | 0.62 |
| 83392 | 4 | 16 | 11 | 37 | < 2 | < 0.5 | < 0.2 | 2 | 1.3 | < 0.5 | 57 | < 0.4 | 42.3 | 86.5 | 9.81 | 38.3 | 6.2 | 1.19 | 3.9 | 0.5 | 2.5 | 0.4 | 1.2 | 0.16 |
| 83393 | 23 | 136 | 93 | 1328 | < 2 | < 0.5 | < 0.2 | 5 | 1.7 | < 0.5 | 220 | < 0.4 | 115 | 227 | 25.0 | 95.0 | 14.9 | 2.75 | 13.0 | 2.3 | 14.5 | 3.3 | 10.4 | 1.71 |
| 83394 | 22 | 212 | 14 | 163 | < 2 | < 0.5 | < 0.2 | < 1 | 1.9 | 0.7 | 87 | < 0.4 | 37.5 | 78.9 | 9.46 | 40.6 | 7.4 | 2.25 | 5.5 | 0.7 | 3.5 | 0.6 | 1.5 | 0.20 |
| 83395 | 64 | 93 | 22 | 254 | 2 | 0.7 | < 0.2 | 2 | 1.8 | 0.7 | 589 | < 0.4 | 28.0 | 62.2 | 7.46 | 32.7 | 6.1 | 1.73 | 5.1 | 0.8 | 4.6 | 0.9 | 2.5 | 0.35 |
| 83396 | 36 | 61 | 74 | 1192 | < 2 | < 0.5 | < 0.2 | 8 | 1.9 | < 0.5 | 203 | < 0.4 | 120 | 244 | 27.4 | 105 | 16.4 | 2.83 | 11.7 | 2.0 | 12.6 | 2.6 | 8.2 | 1.36 |
| 83397 | 34 | 1057 | 107 | 201 | 9 | 0.6 | < 0.2 | 2 | 1.5 | 0.6 | 205 | < 0.4 | 386 | 733 | 79.1 | 315 | 50.0 | 13.4 | 35.6 | 4.6 | 23.3 | 4.2 | 10.7 | 1.47 |
| 83398 | 117 | 284 | 31 | 91 | 2 | < 0.5 | < 0.2 | 2 | 2.1 | 0.8 | 918 | < 0.4 | 40.3 | 84.1 | 10.1 | 43.1 | 8.3 | 2.57 | 7.2 | 1.1 | 6.2 | 1.2 | 3.3 | 0.48 |
| 83399 | 3 | 36 | 45 | 136 | < 2 | < 0.5 | < 0.2 | 2 | 1.5 | < 0.5 | 33 | < 0.4 | 8.4 | 22.5 | 3.40 | 18.4 | 5.7 | 1.91 | 7.2 | 1.3 | 7.9 | 1.7 | 5.0 | 0.73 |
| 83400 | 112 | 90 | 24 | 137 | 3 | < 0.5 | < 0.2 | 6 | 1.6 | < 0.5 | 409 | < 0.4 | 101 | 204 | 22.8 | 87.9 | 13.2 | 2.13 | 7.4 | 0.9 | 4.8 | 1.0 | 2.8 | 0.42 |
| 87673 | 11 | 11 | 4 | 27 | < 2 | < 0.5 | < 0.2 | < 1 | 1.6 | < 0.5 | 39 | < 0.4 | 10.4 | 21.9 | 2.53 | 9.9 | 1.5 | 0.25 | 0.9 | 0.1 | 0.6 | 0.1 | 0.4 | 0.06 |
| 87674 | < 2 | 278 | 15 | 76 | < 2 | < 0.5 | < 0.2 | 2 | 2.0 | < 0.5 | 92 | < 0.4 | 10.4 | 23.6 | 3.03 | 14.1 | 3.2 | 0.96 | 3.3 | 0.5 | 3.2 | 0.6 | 1.8 | 0.25 |
| 87675 | 14 | 673 | 27 | 267 | < 2 | 0.7 | < 0.2 | 2 | 1.9 | < 0.5 | 296 | < 0.4 | 55.0 | 114 | 13.3 | 55.7 | 9.7 | 2.77 | 7.6 | 1.1 | 5.8 | 1.1 | 2.8 | 0.39 |
| 87676 | 120 | 225 | 20 | 220 | < 2 | 0.8 | < 0.2 | 4 | 5.0 | 1.5 | 480 | < 0.4 | 34.3 | 79.8 | 10.6 | 46.8 | 9.0 | 2.39 | 6.0 | 0.8 | 4.4 | 0.8 | 2.3 | 0.34 |
| 87677 | 144 | 262 | 36 | 446 | < 2 | 1.6 | < 0.2 | 6 | 5.8 | 1.0 | 349 | < 0.4 | 63.9 | 133 | 15.3 | 58.1 | 9.7 | 2.95 | 7.9 | 1.3 | 7.5 | 1.4 | 3.9 | 0.57 |
| 87678 | 106 | 729 | 51 | 310 | 9 | 1.1 | < 0.2 | 9 | 4.1 | < 0.5 | 287 | < 0.4 | 116 | 215 | 23.6 | 87.9 | 16.6 | 5.09 | 15.5 | 2.4 | 12.4 | 2.0 | 4.8 | 0.62 |
| 87679 | 93 | 67 | 45 | 310 | < 2 | 0.8 | < 0.2 | 9 | 1.6 | < 0.5 | 119 | < 0.4 | 131 | 263 | 29.0 | 113 | 17.8 | 3.09 | 12.6 | 1.9 | 10.0 | 1.7 | 4.1 | 0.47 |
| 87680 | 51 | 1141 | 17 | 171 | < 2 | < 0.5 | < 0.2 | 71 | 1.5 | 0.9 | 263 | < 0.4 | 171 | 320 | 32.5 | 119 | 13.3 | 2.95 | 6.1 | 0.8 | 3.6 | 0.6 | 1.5 | 0.20 |
| 87681 | 75 | 1601 | 69 | 1137 | < 2 | < 0.5 | < 0.2 | 20 | 4.6 | 1.6 | 392 | < 0.4 | 71.6 | 166 | 20.5 | 83.1 | 16.0 | 5.14 | 14.0 | 2.4 | 14.0 | 2.6 | 6.9 | 0.93 |
| 87682 | 109 | 341 | 57 | 280 | < 2 | 0.7 | < 0.2 | 3 | 2.0 | < 0.5 | 1318 | < 0.4 | 80.3 | 178 | 22.4 | 102 | 18.7 | 5.59 | 15.9 | 2.3 | 11.9 | 2.1 | 5.5 | 0.76 |
| 87683 | 118 | 156 | 42 | 224 | 3 | 0.8 | < 0.2 | 8 | 3.4 | < 0.5 | 207 | < 0.4 | 126 | 250 | 28.0 | 101 | 16.0 | 3.28 | 12.0 | 1.9 | 10.2 | 1.7 | 4.0 | 0.47 |
| 87684 | 40 | 430 | 24 | 241 | < 2 | 0.8 | < 0.2 | 3 | 4.7 | 1.2 | 397 | < 0.4 | 32.6 | 74.2 | 9.50 | 40.8 | 8.2 | 2.56 | 6.8 | 1.0 | 5.6 | 1.0 | 2.6 | 0.37 |
| 87685 | < 2 | 2614 | 47 | 205 | < 2 | 0.7 | < 0.2 | 7 | 3.7 | < 0.5 | 51 | < 0.4 | 210 | 426 | 51.0 | 199 | 31.6 | 8.75 | 21.8 | 2.8 | 13.0 | 2.0 | 4.7 | 0.53 |
| 87686 | 4 | 1250 | 113 | 607 | 3 | 2.1 | < 0.2 | 10 | 3.7 | < 0.5 | 502 | < 0.4 | 499 | 923 | 113 | 436 | 67.0 | 17.6 | 44.8 | 5.8 | 27.8 | 4.6 | 11.2 | 1.39 |
| 87687 | 63 | 294 | 28 | 125 | < 2 | < 0.5 | < 0.2 | 3 | 3.7 | 0.7 | 181 | < 0.4 | 36.0 | 84.0 | 11.0 | 48.3 | 9.8 | 2.77 | 7.6 | 1.2 | 6.5 | 1.2 | 3.2 | 0.44 |
| 87688 | 2 | 3579 | 313 | 144 | 2 | 0.6 | < 0.2 | 4 | 3.3 | < 0.5 | 91 | < 0.4 | 1060 | 2420 | 284 | 1140 | 166 | 44.5 | 107 | 14.4 | 74.5 | 12.9 | 32.9 | 4.16 |
| 87689 | 8 | 138 | 13 | 71 | < 2 | < 0.5 | < 0.2 | 1 | 3.5 | < 0.5 | 132 | < 0.4 | 13.8 | 30.4 | 3.75 | 15.7 | 3.2 | 1.34 | 3.1 | 0.5 | 3.2 | 0.6 | 1.7 | 0.25 |
| 87690 | 29 | 984 | 125 | 460 | 8 | 2.1 | < 0.2 | 6 | 4.0 | 0.7 | 1310 | < 0.4 | 333 | 760 | 93.3 | 370 | 62.7 | 17.8 | 42.7 | 6.0 | 29.9 | 5.1 | 12.5 | 1.55 |
| 87691 | 52 | 422 | 71 | 137 | 28 | 0.5 | < 0.2 | 21 | 4.4 | 0.7 | 1159 | < 0.4 | 2010 | 3310 | 309 | 991 | 105 | 24.7 | 54.6 | 5.3 | 18.5 | 2.4 | 5.5 | 0.67 |
| 87692 | 21 | 480 | 13 | 111 | < 2 | < 0.5 | < 0.2 | 2 | 3.6 | 0.5 | 760 | < 0.4 | 16.5 | 35.1 | 4.30 | 18.3 | 3.8 | 1.40 | 3.4 | 0.5 | 3.0 | 0.5 | 1.5 | 0.22 |
| 87693 | 32 | 319 | 20 | 145 | 4 | 0.5 | < 0.2 | 2 | 3.7 | 0.6 | 613 | < 0.4 | 16.1 | 35.6 | 4.63 | 20.9 | 4.7 | 1.62 | 4.5 | 0.7 | 4.4 | 0.8 | 2.3 | 0.33 |
| 87694 | 42 | 371 | 34 | 425 | < 2 | 1.5 | < 0.2 | 6 | 3.7 | 1.3 | 488 | < 0.4 | 186 | 381 | 45.2 | 170 | 24.3 | 6.55 | 14.9 | 1.9 | 9.1 | 1.5 | 3.7 | 0.45 |
| 87695 | < 2 | 11 | 3 | 7 | < 2 | < 0.5 | < 0.2 | < 1 | 1.2 | < 0.5 | 6 | < 0.4 | 4.2 | 7.0 | 0.90 | 3.1 | 0.6 | 0.12 | 0.7 | 0.1 | 0.7 | 0.1 | 0.4 | 0.05 |

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| Analyte Symbol | Yb | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 67751 | 26.0 | 3.13 | 1.6 | 2 | < 0.1 | 21 | 241 | 12.2 | < 0.003 | 0.008 |
| 67752 | 3.9 | 0.53 | 1.8 | 12 | 0.1 | 7 | 33.2 | 0.4 | < 0.003 | 0.014 |
| 67753 | 2.4 | 0.34 | 4.9 | 13 | 0.1 | < 5 | 7.4 | 0.6 | < 0.003 | 0.010 |
| 67754 | 2.0 | 0.29 | 1.9 | 3 | < 0.1 | < 5 | 2.4 | 0.4 | < 0.003 | < 0.003 |
| 67755 | 6.7 | 0.86 | 3.8 | 32 | < 0.1 | < 5 | 36.9 | 0.8 | < 0.003 | 0.010 |
| 67756 | 6.3 | 0.89 | 5.5 | 45 | 0.2 | 9 | 71.8 | 5.8 | < 0.003 | 0.020 |
| 67757 | 6.5 | 0.93 | 8.1 | 30 | < 0.1 | 13 | 27.7 | 5.1 | 0.003 | 0.029 |
| 67758 | 5.9 | 0.77 | 10.5 | 13 | 0.3 | 20 | 36.9 | 9.1 | < 0.003 | 0.037 |
| 67759 | 11.5 | 1.45 | 4.1 | 40 | < 0.1 | 6 | 58.3 | 1.5 | < 0.003 | 0.007 |
| 67760 | 2.5 | 0.35 | 2.0 | 2 | < 0.1 | < 5 | 2.6 | 0.6 | < 0.003 | < 0.003 |
| 67761 | 42.1 | 5.67 | 4.6 | 17 | < 0.1 | 26 | 224 | 26.7 | < 0.003 | 0.026 |
| 83376 | 5.5 | 0.77 | 1.6 | 13 | < 0.1 | 10 | 35.1 | 5.0 | < 0.003 | 0.040 |
| 83377 | 4.1 | 0.59 | 2.4 | 8 | < 0.1 | 11 | 139 | 0.6 | < 0.003 | 0.007 |
| 83378 | 2.5 | 0.38 | 0.8 | 3 | < 0.1 | 15 | 66.1 | 0.7 | < 0.003 | 0.008 |
| 83379 | 2.8 | 0.43 | 4.4 | 10 | 0.2 | 7 | 9.4 | 0.6 | < 0.003 | 0.016 |
| 83380 | 4.7 | 0.65 | 0.9 | 2 | < 0.1 | 31 | 131 | 2.6 | < 0.003 | 0.018 |
| 83381 | 57.0 | 7.74 | 2.9 | 2 | < 0.1 | 48 | 553 | 18.1 | < 0.003 | 0.029 |
| 83382 | 7.3 | 1.12 | 5.5 | 58 | 0.1 | 6 | 23.8 | 0.5 | < 0.003 | 0.010 |
| 87666 | 4.7 | 0.67 | 1.6 | 11 | < 0.1 | 53 | 80.4 | 5.8 | < 0.003 | 0.082 |
| 87667 | 7.9 | 1.10 | 1.4 | 1 | < 0.1 | 136 | 184 | 80.5 | 0.014 | 0.235 |
| 87668 | 4.7 | 0.69 | 1.4 | < 1 | < 0.1 | 11 | 28.1 | 6.5 | < 0.003 | 0.010 |
| 87669 | 22.6 | 3.31 | 2.3 | 34 | < 0.1 | 9 | 207 | 3.7 | < 0.003 | 0.020 |
| 87670 | 8.4 | 1.16 | 0.8 | 2 | < 0.1 | 44 | 100 | 15.6 | 0.003 | 0.102 |
| 87671 | 5.8 | 0.83 | 0.8 | < 1 | < 0.1 | 85 | 114 | 107 | 0.007 | 0.040 |
| 87672 | 1.3 | 0.20 | 2.4 | < 1 | < 0.1 | 10 | 2.9 | 1.0 | < 0.003 | 0.003 |
| 28175 | 20.9 | 2.00 | 3.0 | 4 | 0.2 | 552 | 3190 | 0.2 | < 0.003 | 0.091 |
| 87629 | 14.9 | 1.78 | 3.8 | 5 | < 0.1 | 93 | 535 | 144 | 0.019 | 0.567 |
| 87630 | 7.5 | 1.01 | 3.3 | < 1 | < 0.1 | 44 | 400 | 108 | 0.013 | 0.242 |
| 87631 | 8.3 | 1.05 | 2.2 | 1 | 0.1 | 111 | 372 | 88.6 | 0.015 | 0.123 |
| 87632 | 8.9 | 1.15 | 2.7 | 3 | < 0.1 | 150 | 1310 | 350 | 0.065 | 0.638 |
| 87633 | 14.1 | 1.86 | 2.7 | 8 | 0.4 | 62 | 302 | 205 | 0.031 | 0.242 |
| 87634 | 5.3 | 0.73 | 3.0 | 12 | 0.4 | 29 | 363 | 58.5 | 0.010 | 0.389 |
| 87635 | 6.2 | 0.86 | 1.5 | < 1 | < 0.1 | 204 | 270 | 240 | 0.021 | 0.195 |
| 87636 | 17.5 | 2.22 | 1.1 | 1 | 0.1 | 109 | 299 | 0.6 | 0.003 | 0.094 |
| 87637 | 129 | 17.8 | 4.3 | 9 | < 0.1 | 531 | 766 | 476 | 0.005 | 0.017 |
| 87638 | 17.8 | 2.43 | 5.2 | < 1 | < 0.1 | 34 | 256 | 42.7 | 0.003 | 0.954 |
| 87639 | 3.6 | 0.53 | 5.3 | 17 | < 0.1 | 9 | 15.5 | 4.0 | < 0.003 | 0.005 |
| 87640 | 12.6 | 1.53 | 0.7 | 1 | < 0.1 | 179 | 148 | 1.2 | < 0.003 | 0.007 |
| 87641 | 4.1 | 0.62 | 3.4 | 2 | 0.6 | 28 | 38.5 | 0.2 | 0.003 | 0.016 |
| 87642 | 3.7 | 0.52 | 2.2 | < 1 | 0.1 | 252 | 9.2 | 100 | 0.009 | 0.045 |
| 87643 | 18.1 | 2.30 | 1.2 | < 1 | 0.1 | 140 | 122 | 136 | 0.012 | 0.103 |
| 87644 | 5.5 | 0.82 | 0.8 | < 1 | < 0.1 | 32 | 110 | 56.2 | 0.010 | 0.127 |
| 87645 | 4.5 | 0.73 | 1.4 | 2 | 0.1 | 116 | 3.4 | 32.6 | < 0.003 | < 0.003 |
| 87646 | 88.7 | 14.0 | 86.9 | 34 | < 0.1 | 30 | 379 | 16.4 | < 0.003 | 0.109 |
| 87647 | 0.1 | < 0.04 | < 0.2 | 1 | < 0.1 | < 5 | 1.0 | 0.1 | < 0.003 | < 0.003 |
| 87648 | 3.9 | 0.53 | 0.8 | 6 | < 0.1 | 8 | 17.0 | 10.1 | < 0.003 | 0.004 |
| 87649 | 17.2 | 1.97 | 1.6 | 3 | 0.2 | 554 | 412 | 0.9 | < 0.003 | 0.033 |
| 87650 | 17.0 | 2.67 | 26.3 | 8 | 0.1 | < 5 | 35.2 | 3.0 | < 0.003 | 0.024 |
| 87651 | 26.8 | 3.40 | 1.9 | 15 | < 0.1 | 44 | 1970 | 0.4 | < 0.003 | 0.183 |
| 87652 | 9.5 | 1.33 | 2.6 | 2 | < 0.1 | 87 | 467 | 112 | 0.019 | 0.221 |
| 87653 | 14.1 | 1.76 | 2.0 | 4 | < 0.1 | 372 | 794 | 237 | 0.041 | 0.610 |
| 87654 | 35.6 | 4.94 | 1.4 | 2 | 0.2 | 37 | 331 | 0.5 | < 0.003 | 0.034 |

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| Analyte Symbol | Yb | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87655 | 12.9 | 1.76 | 1.0 | 3 | 0.1 | 184 | 346 | 0.6 | < 0.003 | 0.089 |
| 87656 | 18.2 | 2.50 | 1.8 | 8 | 0.2 | 288 | 650 | 0.3 | < 0.003 | 0.102 |
| 87657 | 10.6 | 1.44 | 0.9 | 18 | 0.1 | 315 | 651 | 0.3 | < 0.003 | 0.153 |
| 87658 | 11.1 | 1.46 | 2.0 | 3 | 0.1 | 99 | 126 | 185 | 0.026 | 0.206 |
| 87659 | 5.6 | 0.80 | 1.4 | 8 | < 0.1 | 5 | 203 | 6.7 | < 0.003 | 0.007 |
| 87660 | 14.0 | 1.76 | 1.7 | 4 | < 0.1 | 408 | 292 | 315 | 0.037 | 0.246 |
| 87661 | 24.4 | 3.58 | 2.7 | 4 | < 0.1 | 16 | 478 | 30.8 | 0.005 | 0.514 |
| 87662 | 11.5 | 1.86 | 1.4 | 11 | 0.4 | 13 | 35.8 | 4.3 | < 0.003 | 0.006 |
| 87663 | 12.2 | 1.85 | 13.5 | 8 | 0.2 | < 5 | 18.5 | 4.1 | 0.003 | 0.021 |
| 87664 | 1.8 | 0.29 | 4.7 | 3 | 0.1 | < 5 | 5.3 | 0.6 | < 0.003 | 0.004 |
| 87665 | 17.3 | 2.21 | 1.0 | 10 | < 0.1 | 12 | 117 | 1.3 | < 0.003 | 0.035 |
| 83383 | 8.6 | 1.14 | 3.0 | 10 | < 0.1 | 9 | 129 | 15.7 | 0.004 | 0.073 |
| 83384 | 3.8 | 0.52 | 1.7 | 6 | < 0.1 | 11 | 41.9 | 7.0 | < 0.003 | 0.030 |
| 83385 | 1.8 | 0.28 | 9.2 | 26 | < 0.1 | < 5 | 4.8 | 0.2 | < 0.003 | 0.005 |
| 83386 | 2.5 | 0.40 | 4.9 | 31 | 0.2 | < 5 | 2.9 | 0.3 | < 0.003 | 0.005 |
| 83387 | 3.1 | 0.43 | 6.2 | 8 | < 0.1 | < 5 | 5.1 | 1.1 | < 0.003 | 0.009 |
| 83388 | 2.1 | 0.31 | 6.3 | 2 | < 0.1 | < 5 | 3.2 | 0.6 | < 0.003 | 0.006 |
| 83389 | 8.6 | 1.34 | 15.1 | 11 | < 0.1 | < 5 | 22.2 | 3.9 | < 0.003 | 0.029 |
| 83390 | 2.2 | 0.35 | 3.1 | 117 | < 0.1 | < 5 | 3.5 | 3.1 | 0.003 | 0.031 |
| 83391 | 3.3 | 0.44 | 1.2 | 5 | < 0.1 | 6 | 19.8 | 2.5 | 0.003 | 0.014 |
| 83392 | 0.9 | 0.14 | 0.6 | 4 | < 0.1 | 20 | 8.0 | 0.2 | < 0.003 | < 0.003 |
| 83393 | 12.1 | 1.94 | 23.9 | 8 | < 0.1 | < 5 | 19.2 | 1.9 | < 0.003 | 0.023 |
| 83394 | 1.2 | 0.19 | 3.8 | 3 | < 0.1 | < 5 | 3.0 | 0.6 | < 0.003 | 0.005 |
| 83395 | 2.2 | 0.35 | 6.2 | 5 | < 0.1 | < 5 | 4.0 | 0.8 | < 0.003 | 0.007 |
| 83396 | 9.6 | 1.56 | 19.8 | 12 | < 0.1 | < 5 | 31.5 | 2.8 | < 0.003 | 0.028 |
| 83397 | 8.6 | 1.20 | 2.6 | 7 | < 0.1 | 10 | 105 | 14.8 | 0.004 | 0.066 |
| 83398 | 3.1 | 0.52 | 3.1 | 22 | 0.2 | < 5 | 4.8 | 0.8 | < 0.003 | 0.015 |
| 83399 | 4.9 | 0.81 | 3.8 | < 1 | < 0.1 | < 5 | 1.0 | 0.2 | < 0.003 | < 0.003 |
| 83400 | 2.7 | 0.42 | 4.2 | 9 | 0.2 | < 5 | 9.8 | 0.5 | < 0.003 | 0.029 |
| 87673 | 0.4 | 0.07 | 0.6 | 3 | < 0.1 | < 5 | 1.5 | 0.1 | 0.003 | < 0.003 |
| 87674 | 1.6 | 0.25 | 2.0 | 1 | < 0.1 | < 5 | 1.6 | 0.3 | < 0.003 | < 0.003 |
| 87675 | 2.4 | 0.38 | 6.3 | 2 | < 0.1 | < 5 | 9.3 | 0.9 | < 0.003 | 0.008 |
| 87676 | 2.4 | 0.43 | 4.5 | 37 | 0.3 | 9 | 13.5 | 0.4 | < 0.003 | 0.008 |
| 87677 | 3.7 | 0.60 | 9.5 | 135 | 0.3 | 6 | 16.3 | 0.5 | 0.003 | 0.018 |
| 87678 | 3.9 | 0.60 | 6.8 | 25 | 0.2 | 13 | 22.1 | 5.2 | < 0.003 | 0.028 |
| 87679 | 2.4 | 0.30 | 12.9 | 5 | 0.1 | < 5 | 11.9 | 0.6 | < 0.003 | 0.023 |
| 87680 | 1.2 | 0.18 | 5.0 | 8 | 0.2 | 60 | 60.6 | 124 | 0.108 | 0.529 |
| 87681 | 5.7 | 0.88 | 16.9 | 11 | 0.6 | 156 | 83.8 | 316 | 0.043 | 0.272 |
| 87682 | 4.6 | 0.71 | 5.4 | 22 | 0.1 | 7 | 10.4 | 3.4 | < 0.003 | 0.016 |
| 87683 | 2.8 | 0.44 | 6.8 | 12 | 0.2 | < 5 | 14.6 | 1.7 | < 0.003 | 0.026 |
| 87684 | 2.3 | 0.35 | 6.2 | 28 | < 0.1 | < 5 | 3.0 | 0.6 | < 0.003 | 0.007 |
| 87685 | 2.9 | 0.41 | 1.9 | 14 | < 0.1 | 193 | 53.5 | 169 | 0.008 | 0.158 |
| 87686 | 7.9 | 1.14 | 7.1 | 14 | 0.2 | 110 | 65.7 | 70.9 | 0.007 | 0.195 |
| 87687 | 2.7 | 0.40 | 2.7 | 25 | 0.2 | 7 | 9.0 | 4.3 | < 0.003 | 0.022 |
| 87688 | 24.2 | 3.42 | 2.3 | 6 | < 0.1 | 14 | 73.2 | 14.4 | 0.004 | 0.287 |
| 87689 | 1.6 | 0.25 | 2.1 | 6 | < 0.1 | < 5 | 1.7 | 0.4 | < 0.003 | < 0.003 |
| 87690 | 9.0 | 1.28 | 6.0 | 13 | 0.1 | 20 | 155 | 17.7 | < 0.003 | 0.689 |
| 87691 | 3.6 | 0.50 | 3.0 | 18 | 0.4 | 35 | 181 | 0.5 | 0.004 | 0.088 |
| 87692 | 1.4 | 0.23 | 2.9 | 7 | < 0.1 | < 5 | 2.0 | 0.5 | 0.003 | 0.003 |
| 87693 | 2.1 | 0.35 | 3.8 | 7 | < 0.1 | < 5 | 2.3 | 0.5 | < 0.003 | < 0.003 |
| 87694 | 2.6 | 0.37 | 9.1 | 8 | 0.1 | 13 | 20.5 | 5.2 | < 0.003 | 0.031 |
| 87695 | 0.4 | 0.08 | < 0.2 | 1 | < 0.1 | < 5 | 1.0 | 0.2 | < 0.003 | < 0.003 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|
| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr | Y | Zr | Ba | Cr | Co | Ni | Cu |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 2 | 2 | 4 | 3 | 20 | 1 | 20 | 10 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | 11.41 | 2.10 | 0.87 | 0.011 | 0.37 | 43.92 | 0.93 | 0.58 | 0.122 | 30.17 | | | | | 1681 | | | | | | | | |
| NIST 694 Cert | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | |
| DNC-1 Meas | | 47.08 | 18.47 | 9.83 | 0.148 | 10.12 | 11.30 | 1.90 | 0.23 | 0.490 | 0.08 | | | 32 | | 157 | 142 | 16 | 33 | 103 | 270 | 57 | 250 | 110 |
| DNC-1 Cert | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | 144.0 | 18.0 | 38 | 118 | 270.0 | 57.0 | 247 | 100.0 |
| GBW 07113 Meas | | 73.63 | 13.20 | 3.31 | 0.143 | 0.15 | 0.59 | 2.49 | 5.48 | 0.289 | 0.05 | | | 5 | 4 | < 5 | 41 | 46 | 429 | 487 | | | | |
| GBW 07113 Cert | | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | 43.0 | 43.0 | 403 | 506 | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | | | | 80 | 32 | 50 | 40 |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 |
| NIST 1633b Meas | | 48.53 | 28.46 | 11.05 | 0.020 | 0.78 | 2.12 | 0.26 | 2.31 | 1.296 | 0.55 | | | 40 | | 305 | 1035 | | | 681 | | | | |
| NIST 1633b Cert | | 49.2 | 28.4 | 11.1 | 0.0200 | 0.800 | 2.11 | 0.270 | 2.35 | 1.32 | 0.530 | | | 41.0 | | 296 | 1040 | | | 709 | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 52.16 | 15.16 | 10.73 | 0.168 | 6.29 | 10.77 | 2.19 | 0.62 | 1.071 | 0.14 | | | 36 | < 1 | 279 | 192 | 19 | 87 | 168 | 90 | 43 | 70 | 110 |
| W-2a Cert | | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 190 | 24.0 | 94.0 | 182 | 92.0 | 43.0 | 70.0 | 110 |
| SY-4 Meas | | 49.52 | 20.29 | 6.25 | 0.107 | 0.53 | 8.12 | 6.81 | 1.66 | 0.286 | 0.13 | | | 1 | 3 | 9 | 1189 | 119 | 524 | 333 | | | | |
| SY-4 Cert | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | 1191 | 119 | 517 | 340 | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | < 1 | | 60 |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | 2.72 | | 54.0 |
| BIR-1a Meas | | 47.56 | 15.72 | 11.14 | 0.171 | 9.40 | 12.91 | 1.90 | 0.03 | 0.958 | 0.06 | | | 43 | < 1 | 334 | 124 | 13 | 14 | 10 | 370 | 52 | 160 | 140 |
| BIR-1a Cert | | 47.8 | 15.4 | 11.3 | 0.171 | 9.68 | 13.2 | 1.75 | 0.0300 | 0.960 | 0.0500 | | | 44.0 | 0.580 | 313 | 108 | 16.0 | 16.0 | 7.00 | 382 | 51.4 | 166 | 125 |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86302 Meas | | 74.44 | 14.57 | 0.58 | 0.028 | 0.06 | 0.64 | 4.59 | 3.87 | 0.012 | 0.01 | | | | 1309 | | | | | | | | | |
| NCS DC86302 Cert | | 73.99 | 14.86 | 0.593 | 0.036 | 0.069 | 0.584 | 4.67 | 3.89 | 0.016 | 0.013 | | | | 1315 | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | | | | 25 | 70 | 2630 |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 |
| IGS 40 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| IGS 40 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | | | 30 | 4 | < 20 | 900 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | | | 30 | 3.7 | 2.8 | 960.000 |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | | | 17 | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | | | 18.1 | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | | | 46 | | 440 |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | | | 48.8 | | 434 |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | | | < 20 | 2 | < 20 | < 10 |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | | | 2.83 | 0.83 | 1.67 | 2.68 |
| NCS DC86318 Meas | | 66.00 | 13.49 | 2.28 | 0.054 | 0.08 | | 0.59 | 5.51 | 0.168 | < 0.01 | | | | | | | 17070 | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|-------|
| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr | Y | Zr | Ba | Cr | Co | Ni | Cu | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 2 | 2 | 4 | 3 | 20 | 1 | 20 | 10 | |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| NCS DC86318 Cert | | 66.90 | 14.26 | 2.24 | 0.052 | 0.11 | | 0.66 | 5.52 | 0.17 | 0.020 | | | | | | | 17010 | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | | | | | | | | | 11170 |
| SARM 3 Cert | | | | | | | | | | | | | | | | | | | | | | | | | 11119 |
| CDN-CGS-24 Meas | 524 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 427 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 458 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 495 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | | |
| 67760 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 67760 Dup | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 83379 Orig | | 39.50 | 10.73 | 11.22 | 0.167 | 7.69 | 8.33 | 3.77 | 3.57 | 2.085 | 0.22 | 13.21 | 100.5 | 32 | 12 | 293 | 474 | 23 | 150 | 1208 | 660 | 52 | 220 | 40 | |
| 83379 Dup | | 39.03 | 10.79 | 11.09 | 0.164 | 7.68 | 8.21 | 3.83 | 3.62 | 2.065 | 0.21 | 13.21 | 99.91 | 32 | 13 | 291 | 478 | 24 | 150 | 1199 | 640 | 49 | 220 | 110 | |
| 87667 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87667 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87634 Orig | | 0.43 | 0.13 | 3.05 | 0.306 | 15.42 | 37.74 | 0.04 | 0.08 | 0.102 | 5.10 | 35.42 | 97.82 | 22 | 22 | 220 | 1230 | 79 | 232 | 314 | < 20 | 3 | < 20 | < 10 | |
| 87634 Dup | | 0.42 | 0.13 | 3.02 | 0.305 | 15.41 | 37.51 | 0.04 | 0.08 | 0.099 | 5.08 | 35.42 | 97.52 | 21 | 22 | 221 | 1227 | 78 | 225 | 309 | < 20 | 3 | < 20 | < 10 | |
| 87644 Orig | | 1.56 | 0.45 | 7.79 | 0.457 | 14.25 | 32.13 | 0.18 | 0.16 | 0.021 | 4.97 | 36.58 | 98.53 | 24 | < 1 | 18 | 2080 | 83 | 44 | 133 | < 20 | 11 | < 20 | < 10 | |
| 87644 Dup | | 1.58 | 0.45 | 7.80 | 0.457 | 14.21 | 32.12 | 0.18 | 0.16 | 0.019 | 4.93 | 36.58 | 98.48 | 24 | < 1 | 18 | 2088 | 82 | 45 | 133 | < 20 | 11 | < 20 | 30 | |
| 87647 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87647 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87657 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87657 Dup | 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87659 Orig | | 11.76 | 3.50 | 7.79 | 0.579 | 12.91 | 24.56 | 1.11 | 1.46 | 0.354 | 0.74 | 35.89 | 100.7 | 11 | < 1 | 153 | 1067 | 67 | 79 | 97 | 50 | 8 | < 20 | < 10 | |
| 87659 Dup | | 11.66 | 3.52 | 7.70 | 0.574 | 12.79 | 24.24 | 1.09 | 1.44 | 0.345 | 0.72 | 35.89 | 99.95 | 11 | < 1 | 150 | 1072 | 66 | 77 | 87 | 50 | 8 | < 20 | < 10 | |
| 83384 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 83384 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 83393 Orig | | 61.33 | 17.02 | 3.90 | 0.061 | 0.93 | 1.90 | 8.34 | 1.23 | 0.911 | 0.09 | 3.28 | 98.99 | 7 | 2 | 42 | 136 | 92 | 1321 | 220 | 20 | 4 | < 20 | < 10 | |
| 83393 Dup | | 61.41 | 16.83 | 3.87 | 0.062 | 0.94 | 1.92 | 8.33 | 1.22 | 0.900 | 0.09 | 3.28 | 98.84 | 7 | 2 | 42 | 136 | 93 | 1334 | 221 | 20 | 4 | < 20 | < 10 | |
| 83399 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 83399 Dup | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87675 Orig | | 47.00 | 18.38 | 7.94 | 0.121 | 2.09 | 9.99 | 5.64 | 0.92 | 2.047 | 0.40 | 5.05 | 99.59 | 17 | 1 | 123 | 679 | 26 | 264 | 300 | 40 | 27 | < 20 | 90 | |
| 87675 Dup | | 46.99 | 17.98 | 8.05 | 0.123 | 2.07 | 10.28 | 5.27 | 0.85 | 2.063 | 0.41 | 5.05 | 99.14 | 17 | 1 | 124 | 668 | 27 | 270 | 292 | 40 | 27 | < 20 | 90 | |
| 87690 Orig | | | | | | | | | | | | | | | | | | | | | | 30 | 5 | < 20 | 10 |
| 87690 Dup | | | | | | | | | | | | | | | | | | | | | | 30 | 5 | < 20 | 10 |
| 87691 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87691 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 87695 Orig | < 5 | 92.04 | 0.33 | 0.69 | 0.016 | 0.17 | 2.89 | 0.07 | 0.01 | 0.026 | < 0.01 | 2.38 | 98.64 | 1 | < 1 | 9 | 11 | 3 | 7 | 6 | 20 | < 1 | < 20 | < 10 | |
| 87695 Split | < 5 | 93.44 | 0.32 | 0.70 | 0.016 | 0.17 | 2.94 | 0.07 | 0.01 | 0.025 | 0.01 | 2.38 | 100.1 | 1 | < 1 | 11 | 11 | < 2 | 6 | 4 | < 20 | < 1 | < 20 | < 10 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Sr | Y | Zr | Ba | Cr | Co | Ni | Cu |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 2 | 2 | 4 | 3 | 20 | 1 | 20 | 10 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|--------|--------|--------|--------|---------|--------|--------|--------|---------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Zn | Ga | Ge | As | Rb | Mo | Ag | In | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | 2680 | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | 2700 | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | 80 | | | | | | | | | | | | 3.6 | | | 5.3 | | 0.59 | | | | | | | |
| DNC-1 Cert | 70.0 | | | | | | | | | | | | 3.6 | | | 5.20 | | 0.59 | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | 150 | | | 29 | 76 | < 2 | 2.8 | | 3 | 1.0 | 2.4 | | 51.3 | 91.2 | | 43.4 | 8.0 | 1.45 | | | | 5.0 | | | |
| LKSD-3 Cert | 152 | | | 27.0 | 78.0 | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | | | 4.90 | | | |
| NIST 1633b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 1633b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | 1550 | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | 1480 | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 90 | 18 | 2 | < 5 | 19 | < 2 | < 0.5 | | | | 0.9 | < 0.4 | 11.6 | 24.2 | | 13.0 | 3.2 | 1.07 | | 0.8 | 3.8 | 0.8 | 2.1 | 0.34 | |
| W-2a Cert | 80.0 | 17.0 | 1.00 | 1.20 | 21.0 | 0.600 | 0.0460 | | | | 0.990 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 | 0.380 | |
| SY-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | 40 | | | | | | | | | | | | 2200 | 3330 | | 1140 | 169 | 46.0 | 130 | 15.4 | | | | | |
| CTA-AC-1 Cert | 38.0 | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | | |
| BIR-1a Meas | 80 | 16 | 2 | < 5 | < 2 | < 2 | < 0.5 | | 1 | | < 0.5 | < 0.4 | 0.6 | 2.0 | 0.46 | 2.6 | 1.1 | 0.52 | 1.8 | 0.5 | 2.6 | 0.6 | 1.7 | 0.28 | |
| BIR-1a Cert | 71.0 | 16.0 | 1.50 | 0.440 | 0.250 | 0.500 | 0.0360 | | 0.650 | | 0.00500 | 0.0200 | 0.620 | 1.95 | 0.380 | 2.50 | 1.10 | 0.540 | 1.85 | 0.360 | 2.50 | 0.570 | 1.70 | 0.260 | |
| NCS DC86312 Meas | | | | | | | | | | | | | 2330 | 201 | | 1560 | | | 222 | 34.0 | 183 | 35.7 | 96.2 | 14.4 | |
| NCS DC86312 Cert | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 | 15.1 | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86302 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | 7400 | 25 | | | | 270 | 16.7 | | | 180 | | 80.3 | 43.3 | 85.5 | 10.0 | 36.7 | 7.7 | 1.62 | 6.9 | 1.3 | 6.3 | 1.2 | 3.4 | 0.54 | |
| NCS DC70014 Cert | 7400.00 | 25.2 | | | | 270.000 | 16.7 | | | 180.000 | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | 0.57 | |
| IGS 40 Meas | | | | | | | | | | | | | 20100 | 30900 | 2720 | | | | 86.2 | | | | | | |
| IGS 40 Cert | | | | | | | | | | | | | 20720 | 32247 | 2730 | | | | 86.35 | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 90 | 16 | 11 | 69 | 503 | | 1.6 | 1.3 | 1700 | 2.5 | 43.4 | | 22.8 | 58.7 | 7.62 | 30.7 | 12.3 | 0.11 | 14.2 | 3.4 | 20.9 | 4.4 | 13.0 | 2.38 | |
| NCS DC70009 (GBW07241) Cert | 100.000 | 16.5 | 11.2 | 69.9 | 500.00 | | 1.8 | 1.3 | 1701 | 3.1 | 41 | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | 2.2 | |
| OREAS 100a (Fusion) Meas | | | | | | 23 | | | | | | | 256 | 445 | 45.5 | 147 | 23.6 | 3.54 | 20.3 | 3.6 | 22.5 | 4.9 | 14.3 | 2.39 | |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | 2.31 | |
| OREAS 101a (Fusion) Meas | | | | | | 20 | | | | | | | 816 | 1380 | 131 | 385 | 48.5 | 7.78 | | 5.4 | 30.9 | 6.4 | 18.5 | 2.89 | |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | 2.90 | |
| JR-1 Meas | 40 | 17 | 3 | 16 | 249 | 4 | < 0.5 | < 0.2 | 3 | 1.1 | 20.8 | 0.5 | 20.5 | 47.4 | 6.01 | 23.2 | 5.8 | 0.28 | 5.6 | 1.1 | | 1.4 | 4.1 | 0.75 | |
| JR-1 Cert | 30.6 | 16.1 | 1.88 | 16.3 | 257 | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | | 1.11 | 3.61 | 0.67 | |
| NCS DC86318 Meas | | | | | | | | | | | | | 1920 | 422 | 712 | 3340 | 1700 | 18.9 | 2090 | 473 | | 570 | | 271 | |

Activation Laboratories Ltd. Report: A10-5392

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Zn | Ga | Ge | As | Rb | Mo | Ag | In | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| NCS DC86318 Cert | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | | 560 | | 270 | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67760 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67760 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83379 Orig | 100 | 15 | 2 | < 5 | 62 | < 2 | < 0.5 | < 0.2 | 3 | 1.8 | 3.2 | 0.7 | 29.7 | 62.6 | 7.43 | 29.0 | 5.9 | 1.88 | 5.4 | 0.9 | 5.0 | 1.0 | 3.1 | 0.45 | |
| 83379 Dup | 140 | 14 | 2 | < 5 | 59 | < 2 | < 0.5 | < 0.2 | 3 | 1.7 | 3.0 | 2.0 | 28.0 | 59.7 | 7.04 | 28.2 | 5.7 | 1.80 | 5.1 | 0.8 | 5.1 | 1.0 | 3.0 | 0.44 | |
| 87667 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87667 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87634 Orig | 70 | 4 | < 1 | 6 | < 2 | < 2 | 0.8 | < 0.2 | 3 | 1.4 | < 0.5 | < 0.4 | 549 | 1340 | 163 | 591 | 76.9 | 19.6 | 46.1 | 5.3 | 22.8 | 3.5 | 8.0 | 0.95 | |
| 87634 Dup | 70 | 5 | < 1 | 6 | < 2 | < 2 | 0.8 | < 0.2 | 3 | 1.1 | < 0.5 | < 0.4 | 550 | 1340 | 164 | 590 | 77.5 | 19.8 | 46.7 | 5.6 | 23.4 | 3.6 | 8.2 | 0.97 | |
| 87644 Orig | 60 | 3 | < 1 | 5 | < 2 | < 2 | < 0.5 | < 0.2 | < 1 | 1.3 | < 0.5 | < 0.4 | 374 | 778 | 102 | 386 | 57.5 | 15.6 | 39.2 | 4.7 | 21.6 | 3.4 | 8.0 | 0.97 | |
| 87644 Dup | 70 | 3 | < 1 | 5 | < 2 | < 2 | < 0.5 | < 0.2 | < 1 | 1.4 | < 0.5 | < 0.4 | 369 | 770 | 99.9 | 378 | 56.9 | 15.3 | 38.8 | 4.8 | 21.1 | 3.3 | 7.7 | 0.94 | |
| 87647 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87647 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87657 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87657 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87659 Orig | < 30 | 9 | < 1 | < 5 | 13 | 20 | < 0.5 | < 0.2 | 1 | 1.3 | < 0.5 | < 0.4 | 649 | 1180 | 109 | 371 | 45.0 | 10.3 | 25.7 | 3.1 | 15.1 | 2.7 | 7.4 | 0.99 | |
| 87659 Dup | < 30 | 9 | < 1 | < 5 | 13 | 20 | < 0.5 | < 0.2 | 1 | 1.5 | < 0.5 | < 0.4 | 662 | 1200 | 111 | 378 | 45.7 | 10.4 | 25.6 | 3.2 | 15.1 | 2.7 | 7.4 | 0.97 | |
| 83384 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83384 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83393 Orig | < 30 | 41 | 2 | < 5 | 22 | < 2 | | < 0.2 | 5 | 1.7 | < 0.5 | < 0.4 | 114 | 226 | 24.9 | 94.6 | 14.8 | 2.75 | 13.0 | 2.3 | 14.6 | 3.3 | 10.5 | 1.72 | |
| 83393 Dup | < 30 | 42 | 2 | < 5 | 23 | < 2 | | < 0.2 | 5 | 1.7 | < 0.5 | < 0.4 | 115 | 228 | 25.2 | 95.3 | 14.9 | 2.75 | 13.0 | 2.3 | 14.4 | 3.3 | 10.2 | 1.71 | |
| 83399 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83399 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87675 Orig | 90 | 22 | 2 | < 5 | 15 | < 2 | 0.7 | < 0.2 | 2 | 2.4 | < 0.5 | < 0.4 | 52.8 | 109 | 12.7 | 53.7 | 9.4 | 2.66 | 7.4 | 1.0 | 5.6 | 1.0 | 2.8 | 0.39 | |
| 87675 Dup | 80 | 22 | 2 | < 5 | 14 | < 2 | 0.7 | < 0.2 | 2 | 1.3 | < 0.5 | < 0.4 | 57.2 | 119 | 13.9 | 57.6 | 10.1 | 2.87 | 7.8 | 1.1 | 5.9 | 1.1 | 2.9 | 0.40 | |
| 87690 Orig | 340 | 13 | < 1 | 12 | 29 | 8 | 2.0 | < 0.2 | 5 | 4.0 | 0.7 | < 0.4 | 327 | 748 | 91.3 | 363 | 62.0 | 17.5 | 42.3 | 6.0 | 29.5 | 5.0 | 12.1 | 1.54 | |
| 87690 Dup | 350 | 13 | < 1 | 12 | 29 | 8 | 2.1 | < 0.2 | 6 | 4.1 | 0.7 | < 0.4 | 339 | 772 | 95.2 | 377 | 63.5 | 18.2 | 43.1 | 6.1 | 30.3 | 5.2 | 12.8 | 1.57 | |
| 87691 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87691 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87695 Orig | 60 | < 1 | < 1 | < 5 | < 2 | < 2 | < 0.5 | < 0.2 | < 1 | 1.2 | < 0.5 | < 0.4 | 4.2 | 7.0 | 0.90 | 3.1 | 0.6 | 0.12 | 0.7 | 0.1 | 0.7 | 0.1 | 0.4 | 0.05 | |
| 87695 Split | < 30 | < 1 | < 1 | < 5 | < 2 | 2 | < 0.5 | < 0.2 | < 1 | 1.3 | < 0.5 | < 0.4 | 3.7 | 6.2 | 0.82 | 2.6 | 0.5 | 0.11 | 0.5 | < 0.1 | 0.5 | 0.1 | 0.3 | < 0.05 | |
| Method Blank Method | < 30 | < 1 | < 1 | < 5 | < 2 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Zn | Ga | Ge | As | Rb | Mo | Ag | In | Sn | Sb | Cs | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 30 | 1 | 1 | 5 | 2 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

Method Blank Method
Blank

Method Blank Method
Blank

Method Blank Method
Blank

Quality Control

| Analyte Symbol | Yb | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------------------|--------|--------|--------|---------|--------|----------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| DH-1a Meas | | | | | | | 909 | 2600 | | |
| DH-1a Cert | | | | | | | 910 | 2630 | | |
| TAN-1 Meas | | | | | | | | | 0.290 | |
| TAN-1 Cert | | | | | | | | | 0.288 | |
| NIST 694 Meas | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | |
| DNC-1 Meas | 2.1 | | | | | | | | | |
| DNC-1 Cert | 2.0 | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | |
| LKSD-3 Meas | 2.8 | 0.42 | 4.9 | 6 | | 35 | 11.0 | 4.6 | | |
| LKSD-3 Cert | 2.70 | 0.400 | 4.80 | 2.00 | | 29.0 | 11.4 | 4.60 | | |
| NIST 1633b Meas | | | | | | | | | | |
| NIST 1633b Cert | | | | | | | | | | |
| OKA-2 Meas | | | | | | | 28000 | | | |
| OKA-2 Cert | | | | | | | 28900 | | | |
| OKA-1 Meas | | | | | | | | | | 0.534 |
| OKA-1 Cert | | | | | | | | | | 0.529 |
| W-2a Meas | 2.1 | 0.30 | 2.4 | | < 0.1 | 8 | 2.3 | 0.5 | | |
| W-2a Cert | 2.10 | 0.330 | 2.60 | | 0.200 | 9.30 | 2.40 | 0.530 | | |
| SY-4 Meas | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | |
| CTA-AC-1 Meas | 11.3 | 1.14 | | | | | 23.8 | 4.2 | | |
| CTA-AC-1 Cert | 11.4 | 1.08 | | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | 1.7 | 0.24 | 0.6 | 5 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| BIR-1a Cert | 1.65 | 0.260 | 0.600 | 0.0700 | 0.0100 | 3.00 | 0.0300 | 0.0100 | | |
| NCS DC86312 Meas | 87.5 | 12.0 | | | | | 25.3 | | | |
| NCS DC86312 Cert | 87.79 | 11.96 | | | | | 23.6 | | | |
| VS-N Meas | | | | | | | | | 0.097 | 0.099 |
| VS-N Cert | | | | | | | | | 0.098 | 0.10 |
| NCS DC86302 Meas | | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | | |
| NCS DC70014 Meas | 3.4 | 0.48 | | | | 27200 | | | | |
| NCS DC70014 Cert | 3.3 | 0.50 | | | | 27200.00 | | | | |
| IGS 40 Meas | | | | | | | | | | |
| IGS 40 Cert | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | |
| NCS DC86316 Meas | | | 712 | | | | | | | |
| NCS DC86316 Cert | | | 712 | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 16.2 | 2.27 | | 2200 | 2.1 | | 27.2 | | | |
| NCS DC70009 (GBW07241) Cert | 14.9 | 2.4 | | 2200.00 | 1.8 | | 28.3 | | | |
| OREAS 100a (Fusion) Meas | 15.1 | 2.13 | | | | | 50.6 | 135 | | |
| OREAS 100a (Fusion) Cert | 14.9 | 2.26 | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | 18.0 | 2.49 | | | | | 35.9 | 414 | | |
| OREAS 101a (Fusion) Cert | 17.5 | 2.66 | | | | | 36.6 | 422 | | |
| JR-1 Meas | 4.9 | 0.71 | 4.6 | | 1.2 | 19 | 26.8 | 9.1 | | |
| JR-1 Cert | 4.55 | 0.71 | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 | | |
| NCS DC86318 Meas | 1810 | 261 | | | | | | | | |

Quality Control

| Analyte Symbol | Yb | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| NCS DC86318 Cert | 1840 | 260.0 | | | | | | | | |
| SX18-01 Meas | | | | | | | | | 0.004 | 0.699 |
| SX18-01 Cert | | | | | | | | | 0.005 | 0.695 |
| SX18-04 Meas | | | | | | | | | 0.007 | 1.352 |
| SX18-04 Cert | | | | | | | | | 0.005 | 1.32 |
| SX18-05 Meas | | | | | | | | | 0.004 | 0.982 |
| SX18-05 Cert | | | | | | | | | 0.004 | 0.973 |
| SARM 3 Meas | | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | |
| 67760 Orig | | | | | | | | | | |
| 67760 Dup | | | | | | | | | | |
| 83379 Orig | 2.8 | 0.44 | 4.5 | 10 | 0.2 | 5 | 9.6 | 0.6 | < 0.003 | 0.016 |
| 83379 Dup | 2.8 | 0.42 | 4.4 | 9 | 0.2 | 9 | 9.2 | 0.6 | < 0.003 | 0.016 |
| 87667 Orig | | | | | | | | | | |
| 87667 Dup | | | | | | | | | | |
| 87634 Orig | 5.2 | 0.71 | 3.1 | 12 | 0.3 | 29 | 367 | 59.2 | 0.010 | 0.391 |
| 87634 Dup | 5.4 | 0.75 | 3.0 | 12 | 0.4 | 29 | 360 | 57.7 | 0.011 | 0.386 |
| 87644 Orig | 5.6 | 0.83 | 0.8 | < 1 | < 0.1 | 32 | 111 | 56.3 | 0.010 | 0.127 |
| 87644 Dup | 5.5 | 0.81 | 0.8 | < 1 | < 0.1 | 33 | 110 | 56.1 | 0.010 | 0.128 |
| 87647 Orig | | | | | | | | | | |
| 87647 Dup | | | | | | | | | | |
| 87657 Orig | | | | | | | | | | |
| 87657 Dup | | | | | | | | | | |
| 87659 Orig | 5.7 | 0.81 | 1.4 | 8 | < 0.1 | 5 | 202 | 6.8 | < 0.003 | 0.006 |
| 87659 Dup | 5.6 | 0.79 | 1.4 | 8 | < 0.1 | 5 | 204 | 6.7 | < 0.003 | 0.007 |
| 83384 Orig | | | | | | | | | | |
| 83384 Dup | | | | | | | | | | |
| 83393 Orig | 12.1 | 1.93 | 23.8 | 8 | < 0.1 | < 5 | 19.1 | 1.9 | < 0.003 | 0.023 |
| 83393 Dup | 12.1 | 1.94 | 24.1 | 9 | < 0.1 | < 5 | 19.3 | 1.9 | < 0.003 | 0.022 |
| 83399 Orig | | | | | | | | | | |
| 83399 Dup | | | | | | | | | | |
| 87675 Orig | 2.4 | 0.38 | 6.4 | 2 | < 0.1 | < 5 | 8.6 | 0.9 | < 0.003 | 0.008 |
| 87675 Dup | 2.4 | 0.38 | 6.3 | 2 | < 0.1 | < 5 | 9.9 | 0.9 | < 0.003 | 0.007 |
| 87690 Orig | 8.8 | 1.24 | 5.8 | 13 | 0.1 | 19 | 152 | 17.1 | < 0.003 | 0.689 |
| 87690 Dup | 9.2 | 1.31 | 6.2 | 12 | 0.2 | 21 | 157 | 18.3 | 0.003 | 0.689 |
| 87691 Orig | | | | | | | | | | |
| 87691 Dup | | | | | | | | | | |
| 87695 Orig | 0.4 | 0.08 | < 0.2 | 1 | < 0.1 | < 5 | 1.0 | 0.2 | < 0.003 | < 0.003 |
| 87695 Split | 0.4 | 0.07 | < 0.2 | 2 | < 0.1 | < 5 | 0.9 | 0.1 | < 0.003 | < 0.003 |
| Method Blank Method | < 0.1 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| Blank | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | |
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| Method Blank Method | | | | | | | | | | |
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| Method Blank Method | | | | | | | | | | |
| Blank | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | |
| Blank | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | |
| Blank | | | | | | | | | | |

| Quality Control | | | | | | | | | | |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analyte Symbol | Yb | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |

Method Blank Method
Blank

Method Blank Method
Blank

Method Blank Method
Blank

< 0.003 < 0.003



Date Submitted: 27-Aug-10
Invoice No.: A10-5393
Invoice Date: 30-Sep-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

6 Rock samples were submitted for analysis.

The following analytical packages were requested:

| | | |
|---------------|-----------------|--|
| REPORT | A10-5393 | Code 1A2 Au - Fire Assay AA Code 8-REE-Rare Earth Element Pkg Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2) Code 8-XRF Assay Package Fusion-XRF |
|---------------|-----------------|--|

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Notes:

Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As |
|------------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 67762 | < 5 | 0.39 | 0.16 | 4.68 | 0.429 | 15.53 | 34.47 | 0.06 | 0.10 | 0.012 | 6.94 | 37.25 | 100.0 | 11 | 1 | 45 | < 20 | < 1 | < 20 | < 10 | 70 | 4 | < 1 | 6 |
| 67763 | < 5 | 49.85 | 15.20 | 10.92 | 0.175 | 5.27 | 8.64 | 4.12 | 0.47 | 2.347 | 0.25 | 2.07 | 99.31 | 33 | 2 | 293 | 280 | 38 | 110 | 60 | 90 | 19 | 2 | < 5 |
| 67764 | < 5 | 1.02 | 0.10 | 3.90 | 0.431 | 17.65 | 32.74 | 0.03 | 0.05 | 0.009 | 4.03 | 40.78 | 100.8 | 14 | < 1 | 16 | < 20 | 3 | < 20 | < 10 | 40 | 2 | < 1 | < 5 |
| 67765 | < 5 | 7.05 | 2.00 | 4.87 | 0.381 | 12.76 | 28.85 | 0.74 | 0.75 | 0.165 | 4.95 | 32.40 | 94.92 | 15 | 6 | 195 | 30 | 6 | < 20 | < 10 | 160 | 11 | 1 | 6 |
| 67766 | < 5 | 47.50 | 15.58 | 11.71 | 0.133 | 8.31 | 3.66 | 2.44 | 0.12 | 3.167 | 0.33 | 6.59 | 99.55 | 28 | 2 | 253 | 410 | 10 | < 20 | 30 | 180 | 23 | 2 | < 5 |
| 67767 | < 5 | 39.05 | 17.35 | 14.98 | 0.156 | 9.07 | 5.94 | 2.11 | 2.84 | 3.757 | 0.40 | 3.43 | 99.08 | 36 | < 1 | 287 | 450 | 91 | 320 | 110 | 130 | 25 | 1 | < 5 |

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| Analyte Symbol | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm |
|------------------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 |
| Analysis Method | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 67762 | < 2 | 1457 | 671 | 73 | 2 | < 0.5 | < 0.2 | < 1 | 0.7 | < 0.5 | 305 | < 0.4 | 283 | 691 | 89.4 | 348 | 76.2 | 29.4 | 96.6 | 21.2 | 146 | 27.3 | 64.9 | 7.13 |
| 67763 | 7 | 166 | 20 | 176 | < 2 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 288 | < 0.4 | 29.7 | 59.0 | 6.74 | 25.4 | 5.0 | 1.61 | 4.6 | 0.7 | 4.3 | 0.9 | 2.4 | 0.33 |
| 67764 | < 2 | 2338 | 65 | 25 | < 2 | < 0.5 | < 0.2 | < 1 | 0.6 | < 0.5 | 87 | < 0.4 | 152 | 351 | 44.9 | 175 | 32.4 | 9.20 | 24.1 | 3.2 | 16.0 | 2.7 | 6.2 | 0.72 |
| 67765 | 21 | 1279 | 105 | 366 | < 2 | 0.8 | < 0.2 | 3 | < 0.5 | < 0.5 | 56 | < 0.4 | 526 | 1260 | 146 | 520 | 77.7 | 20.0 | 47.8 | 5.9 | 28.1 | 4.6 | 11.0 | 1.33 |
| 67766 | < 2 | 114 | 19 | 245 | 3 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 139 | < 0.4 | 26.9 | 43.4 | 4.41 | 16.6 | 4.3 | 1.83 | 4.5 | 0.7 | 4.2 | 0.8 | 2.3 | 0.32 |
| 67767 | 68 | 475 | 27 | 285 | < 2 | 0.7 | < 0.2 | 2 | < 0.5 | 3.5 | 3993 | < 0.4 | 34.3 | 75.5 | 9.19 | 36.2 | 7.8 | 2.39 | 6.8 | 1.1 | 6.0 | 1.1 | 2.9 | 0.40 |

| Analyte Symbol | Yb | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 67762 | 36.0 | 4.39 | 1.4 | 2 | < 0.1 | 16 | 261 | 17.2 | < 0.003 | 0.142 |
| 67763 | 2.0 | 0.31 | 4.5 | 1 | < 0.1 | 5 | 5.3 | 1.5 | < 0.003 | 0.005 |
| 67764 | 3.7 | 0.44 | 0.4 | 1 | < 0.1 | 15 | 20.1 | 52.7 | 0.007 | 0.029 |
| 67765 | 7.3 | 0.98 | 2.1 | 3 | 0.3 | 109 | 220 | 216 | 0.028 | 0.359 |
| 67766 | 2.0 | 0.29 | 6.3 | 4 | < 0.1 | 9 | 4.9 | 3.0 | < 0.003 | 0.010 |
| 67767 | 2.4 | 0.37 | 7.4 | 1 | 0.2 | 17 | 4.4 | 2.1 | < 0.003 | 0.011 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|---------|--|
| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 | |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | |
| WVG-1 Meas | | | | | | | | | | | | | | | 760 | 204 | 2560 | 5940 | 120 | 10 | | 8 | | | |
| WVG-1 Cert | | | | | | | | | | | | | | | 770 | 200 | 2700 | 5900 | 110 | 10.3 | | 7.00 | | | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | 11.31 | 1.91 | 0.76 | 0.009 | 0.36 | 44.33 | 0.88 | 0.55 | 0.119 | 30.21 | | | | 1683 | | | | | | | | | | | |
| NIST 694 Cert | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | 1740 | | | | | | | | | | | |
| DNC-1 Meas | 47.11 | 18.42 | 9.84 | 0.147 | 10.16 | 11.03 | 1.89 | 0.22 | 0.487 | 0.07 | 31 | | | 157 | 260 | 58 | 250 | 100 | 80 | | | | | 144 | |
| DNC-1 Cert | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | 31 | | | 148.0 | 270.0 | 57.0 | 247 | 100.0 | 70.0 | | | | | 144.0 | |
| GBW 07113 Meas | 73.64 | 12.98 | 3.36 | 0.143 | 0.15 | 0.59 | 2.49 | 5.42 | 0.290 | 0.04 | 5 | 4 | | < 5 | | | | | | | | | | 41 | |
| GBW 07113 Cert | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | 5.00 | 4.00 | 5.00 | | | | | | | | | | | 43.0 | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | 31 | 50 | 40 | 150 | | | 28 | 78 | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | 30.0 | 47.0 | 35.0 | 152 | | | 27.0 | 78.0 | | |
| NIST 1633b Meas | 48.42 | 28.22 | 11.15 | 0.019 | 0.78 | 2.09 | 0.26 | 2.31 | 1.304 | 0.53 | 41 | | | 304 | | | | | | | | | | 1043 | |
| NIST 1633b Cert | 49.2 | 28.4 | 11.1 | 0.0200 | 0.800 | 2.11 | 0.270 | 2.35 | 1.32 | 0.530 | 41.0 | | | 296 | | | | | | | | | | 1040 | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 52.22 | 15.27 | 10.76 | 0.167 | 6.31 | 10.70 | 2.18 | 0.61 | 1.079 | 0.13 | 35 | < 1 | 277 | 80 | 42 | 60 | | | 17 | 2 | < 5 | 19 | 193 | | |
| W-2a Cert | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | | | 17.0 | 1.00 | 1.20 | 21.0 | 190 | | |
| SY-4 Meas | 49.47 | 20.83 | 6.02 | 0.107 | 0.51 | 7.99 | 7.00 | 1.69 | 0.287 | 0.11 | 1 | 3 | 8 | | | | | | | | | | | 1195 | |
| SY-4 Cert | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | 1.1 | 2.6 | 8.0 | | | | | | | | | | | 1191 | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | < 1 | | 60 | 40 | | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | 2.72 | | 54.0 | 38.0 | | | | | | |
| BIR-1a Meas | 47.71 | 15.46 | 11.36 | 0.173 | 9.63 | 13.00 | 1.77 | 0.02 | 0.970 | 0.03 | 43 | < 1 | 335 | 380 | 55 | 170 | 130 | 80 | 16 | 2 | < 5 | < 2 | 106 | | |
| BIR-1a Cert | 47.8 | 15.4 | 11.3 | 0.171 | 9.68 | 13.2 | 1.75 | 0.0300 | 0.960 | 0.0500 | 44.0 | 0.580 | 313 | 382 | 51.4 | 166 | 126 | 71.0 | 16.0 | 1.50 | 0.440 | 0.250 | 108 | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | 25 | 70 | 2590 | 7400 | 25 | | | | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | > 3000 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | 3410.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | 20 | 3 | < 20 | | 100 | 16 | 11 | 69 | 494 | | |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | 30 | 3.7 | 2.8 | | 100.000 | 16.5 | 11.2 | 69.9 | 500.00 | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | 17 | | 170 | | | | | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | 18.1 | | 169 | | | | | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | 46 | | | | | | | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | 48.8 | | | | | | | | | |
| JR-1 Meas | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | 30 | 17 | 3 | 16 | 263 | | |
| JR-1 Cert | | | | | | | | | | | | | | | 2.83 | 0.83 | 1.67 | 2.68 | 30.6 | 16.1 | 1.88 | 16.3 | 257 | | |
| NCS DC86318 Meas | 66.00 | 13.49 | 2.28 | 0.054 | 0.08 | | 0.59 | 5.51 | 0.168 | < 0.01 | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | 66.90 | 14.26 | 2.24 | 0.052 | 0.11 | | 0.66 | 5.52 | 0.17 | 0.020 | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Analyte Symbol | Au | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | Sr |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | 2 |
| Analysis Method | FA-AA | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 458 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | 495 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | 487 | | | | | | | | | | | | | | | | | | | | | | | |
| 67767 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 67767 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

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Quality Control

| Analyte Symbol | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu |
|-----------------------------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| WMG-1 Meas | | | < 2 | 1.6 | | 2 | 2.1 | < 0.5 | | | | | | | 2.5 | 0.74 | | 0.5 | 2.5 | 0.5 | | 0.19 | 1.4 | 0.20 |
| WMG-1 Cert | | | 1.40 | 2.70 | | 2.20 | 1.80 | 0.480 | | | | | | | 2.30 | 0.820 | | 0.300 | 2.80 | 0.500 | | 0.200 | 1.30 | 0.210 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | 17 | 36 | | | | | 1.2 | | 104 | | 3.7 | | | 5.2 | | 0.60 | | | | | | | | 2.1 |
| DNC-1 Cert | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | | | | 2.0 |
| GBW 07113 Meas | 47 | 434 | | | | | | | 494 | | | | | | | | | | | | | | | |
| GBW 07113 Cert | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | < 2 | 2.5 | | 2 | 1.0 | 2.4 | | | 51.3 | 91.9 | | 43.4 | 8.0 | 1.44 | | | 5.0 | | | | 2.8 | 0.41 |
| LKSD-3 Cert | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | | 4.90 | | | | 2.70 | 0.400 |
| NIST 1633b Meas | | | | | | | | | 685 | | | | | | | | | | | | | | | |
| NIST 1633b Cert | | | | | | | | | 709 | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 20 | | < 2 | < 0.5 | | | | 0.8 | 169 | < 0.4 | 11.7 | 25.5 | | 13.0 | 3.3 | 1.08 | | | 3.8 | 0.8 | 2.2 | 0.32 | 2.1 | 0.29 |
| W-2a Cert | 24.0 | 94.0 | 0.600 | 0.0460 | | | | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | | 3.60 | 0.760 | 2.50 | 0.380 | 2.10 | 0.330 |
| SY-4 Meas | 119 | 520 | | | | | | | 332 | | | | | | | | | | | | | | | |
| SY-4 Cert | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | 2140 | 3320 | | 1120 | 166 | 45.2 | 131 | 13.6 | | | | | 11.0 | 1.13 |
| CTA-AC-1 Cert | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | | 11.4 | 1.08 |
| BIR-1a Meas | 14 | 16 | < 2 | < 0.5 | | 1 | | < 0.5 | 8 | < 0.4 | | | 0.44 | 2.6 | 1.1 | 0.53 | 1.7 | 0.5 | | 0.6 | 1.7 | 0.25 | 1.6 | 0.24 |
| BIR-1a Cert | 16.0 | 16.0 | 0.500 | 0.0360 | | 0.650 | | 0.00500 | 7.00 | 0.0200 | | | 0.380 | 2.50 | 1.10 | 0.540 | 1.85 | 0.360 | | 0.570 | 1.70 | 0.260 | 1.65 | 0.260 |
| NCS DC86312 Meas | | | | | | | | | | | 2350 | 184 | | 1570 | | | 224 | 33.8 | 184 | 35.7 | 96.4 | 14.4 | 87.5 | 12.0 |
| NCS DC86312 Cert | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 | 15.1 | 87.79 | 11.96 |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | 270 | 16.8 | | | 180 | | | 80.3 | 44.4 | 86.5 | 9.68 | 36.2 | 7.9 | 1.61 | 7.3 | 1.1 | 6.2 | 1.2 | 3.3 | 0.49 | 3.4 | 0.48 |
| NCS DC70014 Cert | | | 270.000 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | 0.57 | 3.3 | 0.50 |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | 1.9 | 1.3 | 1700 | | 42.6 | | | | 23.9 | 61.2 | 7.81 | 31.9 | 12.5 | 0.12 | 14.4 | 3.5 | 21.2 | 4.5 | 13.0 | 2.37 | 16.3 | 2.26 |
| NCS DC70009 (GBW07241) Cert | | | 1.8 | 1.3 | 1701 | | 41 | | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | 2.2 | 14.9 | 2.4 |
| OREAS 100a (Fusion) Meas | | | 22 | | | | | | | | 256 | 452 | 45.4 | 145 | 23.7 | 3.54 | 22.6 | 3.6 | 22.5 | 4.9 | 14.4 | 2.41 | 15.3 | 2.15 |
| OREAS 100a (Fusion) Cert | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | 2.31 | 14.9 | 2.26 |
| OREAS 101a (Fusion) Meas | | | 19 | | | | | | | | 817 | 1300 | 128 | 409 | 49.9 | 7.92 | | 4.5 | 31.7 | 6.6 | 19.0 | 2.96 | 18.1 | 2.46 |
| OREAS 101a (Fusion) Cert | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | 2.90 | 17.5 | 2.66 |
| JR-1 Meas | | | 3 | < 0.5 | < 0.2 | 3 | 1.2 | 20.9 | | 0.5 | 20.0 | 47.1 | 5.96 | 23.1 | 5.8 | 0.26 | 5.0 | 1.0 | 6.3 | 1.3 | 4.1 | 0.71 | 4.9 | 0.70 |
| JR-1 Cert | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | 1.11 | 3.61 | 0.67 | 4.55 | 0.71 |
| NCS DC86318 Meas | 17070 | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | 17010 | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5393

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Analyte Symbol | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | 0.04 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|-------|-----|-------|-------|-----|-------|-------|--|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|--------|--|
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | 11170 | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | 11119 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-CGS-24 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67767 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67767 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.04 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------------------|--------|---------|--------|----------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| WVG-1 Meas | 1.4 | 3 | | 19 | 1.4 | 0.7 | | |
| WVG-1 Cert | 1.30 | 1.30 | | 15.0 | 1.10 | 0.650 | | |
| DH-1a Meas | | | | | 918 | | | |
| DH-1a Cert | | | | | 910 | | | |
| TAN-1 Meas | | | | | | | 0.290 | |
| TAN-1 Cert | | | | | | | 0.288 | |
| NIST 694 Meas | | | | | | | | |
| NIST 694 Cert | | | | | | | | |
| DNC-1 Meas | | | | | | | | |
| DNC-1 Cert | | | | | | | | |
| GBW 07113 Meas | | | | | | | | |
| GBW 07113 Cert | | | | | | | | |
| LKSD-3 Meas | 4.6 | < 1 | | 35 | 10.9 | 4.7 | | |
| LKSD-3 Cert | 4.80 | 2.00 | | 29.0 | 11.4 | 4.60 | | |
| NIST 1633b Meas | | | | | | | | |
| NIST 1633b Cert | | | | | | | | |
| AC-E Meas | | | | | | | | 0.015 |
| AC-E Cert | | | | | | | | 0.016 |
| OKA-1 Meas | | | | | | | | 0.534 |
| OKA-1 Cert | | | | | | | | 0.529 |
| W-2a Meas | 2.4 | | < 0.1 | 9 | 2.3 | 0.5 | | |
| W-2a Cert | 2.60 | | 0.200 | 9.30 | 2.40 | 0.530 | | |
| SY-4 Meas | | | | | | | | |
| SY-4 Cert | | | | | | | | |
| CTA-AC-1 Meas | | | | | 20.9 | 4.2 | | |
| CTA-AC-1 Cert | | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | 0.6 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| BIR-1a Cert | 0.600 | 0.0700 | 0.0100 | 3.00 | 0.0300 | 0.0100 | | |
| NCS DC86312 Meas | | | | | 25.4 | | | |
| NCS DC86312 Cert | | | | | 23.6 | | | |
| VS-N Meas | | | | | | | 0.097 | 0.099 |
| VS-N Cert | | | | | | | 0.098 | 0.10 |
| NCS DC70014 Meas | | | | 27200 | | | | |
| NCS DC70014 Cert | | | | 27200.00 | | | | |
| CDN-GS-3D Meas | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | |
| CDN-GS-3D Meas | | | | | | | | |
| CDN-GS-3D Cert | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | 2280 | 2.1 | | 27.6 | | | |
| NCS DC70009 (GBW07241) Cert | | 2200.00 | 1.8 | | 28.3 | | | |
| OREAS 100a (Fusion) Meas | | | | | 51.3 | 141 | | |
| OREAS 100a (Fusion) Cert | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | | | | | 35.7 | 434 | | |
| OREAS 101a (Fusion) Cert | | | | | 36.6 | 422 | | |
| JR-1 Meas | 4.3 | | 1.3 | 20 | 27.3 | 9.3 | | |
| JR-1 Cert | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 | | |
| NCS DC86318 Meas | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | |
| SX18-01 Meas | | | | | | | 0.004 | 0.699 |
| SX18-01 Cert | | | | | | | 0.005 | 0.695 |
| SX18-04 Meas | | | | | | | 0.007 | 1.352 |



Date Submitted: 22-Jul-11
Invoice No.: A11-7313
Invoice Date: 08-Sep-11
Your Reference: Batch #3

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Rob Renz

CERTIFICATE OF ANALYSIS

54 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-7313

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in blue ink, appearing to read "Elitsa Hrischeva". The signature is fluid and cursive, written over a horizontal line.

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A11-7313

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92026 | < 5 | 0.43 | 24.91 | 4.14 | 11.35 | 0.325 | 7.60 | 21.08 | 0.09 | 1.35 | 2.048 | 0.80 | 23.31 | 97.00 | 15 | 6 | 177 | 470 | 27 | 160 | 30 | 200 | 10 | < 1 |
| 92027 | 19 | 0.31 | 28.75 | 5.37 | 9.10 | 0.302 | 5.14 | 24.41 | 0.67 | 0.91 | 1.616 | 0.51 | 21.94 | 98.72 | 32 | 14 | 176 | 400 | 38 | 140 | 60 | 130 | 12 | 1 |
| 92028 | < 5 | 0.20 | 26.55 | 6.57 | 6.63 | 0.470 | 7.34 | 21.91 | 2.13 | 0.39 | 0.598 | 1.14 | 24.01 | 97.74 | 23 | 5 | 92 | 100 | 10 | 40 | 10 | 140 | 10 | < 1 |
| 92029 | < 5 | 0.24 | 19.86 | 0.14 | 5.18 | 1.118 | 12.56 | 23.75 | 0.01 | 0.09 | 0.195 | 2.30 | 30.82 | 96.03 | 102 | 10 | 58 | < 20 | < 1 | < 20 | < 10 | 110 | 49 | 3 |
| 92030 | < 5 | 0.28 | 40.08 | 10.54 | 4.42 | 0.201 | 6.89 | 13.49 | 5.17 | 0.98 | 0.390 | 0.40 | 16.85 | 99.42 | 25 | 7 | 68 | 50 | 6 | < 20 | < 10 | 150 | 14 | < 1 |
| 92031 | < 5 | 0.24 | 22.30 | 2.81 | 8.81 | 0.573 | 9.05 | 22.49 | 0.76 | 0.45 | 0.103 | 2.02 | 27.03 | 96.41 | 35 | 6 | 43 | 20 | 8 | 30 | 10 | 160 | 13 | 1 |
| 92032 | 39 | 0.22 | 7.82 | 0.13 | 8.31 | 1.592 | 12.97 | 25.26 | 0.02 | 0.07 | 0.021 | 0.39 | 36.98 | 93.56 | 130 | 5 | 32 | < 20 | < 1 | < 20 | < 10 | 920 | 37 | 3 |
| 92033 | < 5 | 0.39 | 30.05 | 8.11 | 10.57 | 0.204 | 11.82 | 13.23 | 2.00 | 2.64 | 1.647 | 0.44 | 18.51 | 99.22 | 23 | 8 | 219 | 550 | 54 | 200 | 370 | 90 | 11 | < 1 |
| 92034 | 6 | < 0.01 | 54.05 | 15.46 | 4.09 | 0.062 | 2.97 | 5.37 | 8.25 | 0.72 | 0.840 | 0.06 | 7.34 | 99.22 | 8 | 3 | 26 | 30 | 5 | < 20 | < 10 | 80 | 24 | < 1 |
| 92035 | < 5 | 0.03 | 15.89 | 3.32 | 6.77 | 0.500 | 11.14 | 25.57 | 1.61 | 0.20 | 0.178 | 0.20 | 33.34 | 98.72 | 11 | 10 | 27 | 20 | 8 | < 20 | < 10 | 90 | 13 | 1 |
| 92036 | < 5 | < 0.01 | 69.30 | 13.78 | 3.56 | 0.036 | 1.49 | 2.47 | 3.43 | 3.49 | 0.324 | 0.11 | 1.53 | 99.52 | 7 | 1 | 57 | 70 | 9 | 30 | 20 | 50 | 15 | < 1 |
| 92037 | 6 | 0.49 | 34.33 | 1.51 | 19.14 | 1.972 | 7.65 | 10.58 | 0.03 | 1.04 | 0.154 | 0.81 | 21.18 | 98.39 | 260 | 9 | 82 | 30 | 10 | < 20 | < 10 | 1170 | 19 | 3 |
| 92038 | < 5 | 0.51 | 17.06 | 1.95 | 10.12 | 0.346 | 4.65 | 32.15 | 0.08 | 0.25 | 2.106 | 1.70 | 29.03 | 99.45 | 15 | 9 | 186 | < 20 | 15 | 20 | 60 | 100 | 12 | < 1 |
| 92039 | < 5 | 0.14 | 53.92 | 15.47 | 9.92 | 0.050 | 2.11 | 1.74 | 0.81 | 11.98 | 1.319 | 0.07 | 1.97 | 99.35 | 7 | 1 | 32 | 40 | 6 | 30 | < 10 | 170 | 22 | < 1 |
| 92040 | < 5 | 0.35 | 8.64 | 3.30 | 7.53 | 0.343 | 13.86 | 27.41 | 0.46 | 1.39 | 0.253 | 2.30 | 33.19 | 98.66 | 14 | 7 | 88 | 20 | 11 | < 20 | < 10 | 90 | 12 | < 1 |
| 92041 | < 5 | 0.03 | 63.87 | 16.68 | 3.06 | 0.030 | 0.68 | 1.28 | 5.77 | 6.05 | 0.902 | 0.21 | 1.28 | 99.79 | 4 | 2 | 25 | 30 | 2 | < 20 | < 10 | 70 | 35 | < 1 |
| 92042 | < 5 | 0.15 | 58.35 | 16.73 | 5.21 | 0.027 | 1.73 | 1.16 | 0.77 | 12.96 | 0.906 | 0.04 | 1.63 | 99.50 | 8 | < 1 | 40 | 30 | 4 | 20 | 20 | 100 | 22 | < 1 |
| 92043 | < 5 | 0.41 | 8.17 | 0.67 | 7.25 | 0.711 | 10.79 | 32.55 | 0.06 | 0.23 | 0.057 | 4.33 | 33.86 | 98.68 | 16 | 10 | 50 | < 20 | 6 | < 20 | < 10 | 80 | 16 | 2 |
| 92044 | < 5 | 0.06 | 51.69 | 13.75 | 5.14 | 0.058 | 3.02 | 4.86 | 0.66 | 11.04 | 0.951 | 0.07 | 6.12 | 97.36 | 7 | 4 | 81 | 20 | 4 | 20 | < 10 | 100 | 27 | < 1 |
| 92045 | < 5 | 0.08 | 55.86 | 16.08 | 4.97 | 0.037 | 2.26 | 2.93 | 0.58 | 13.15 | 0.814 | 0.12 | 3.66 | 100.5 | 4 | 2 | 67 | < 20 | 7 | < 20 | < 10 | 100 | 30 | < 1 |
| 92046 | < 5 | 0.02 | 5.28 | 0.52 | 10.82 | 0.630 | 14.20 | 27.88 | 0.03 | 0.32 | 0.052 | 0.05 | 39.61 | 99.39 | 23 | 3 | 116 | 20 | 5 | < 20 | < 10 | 130 | 3 | < 1 |
| 92047 | < 5 | 0.08 | 56.21 | 15.39 | 4.67 | 0.047 | 2.43 | 3.31 | 0.64 | 12.80 | 0.815 | 0.17 | 3.23 | 99.70 | 3 | 4 | 46 | < 20 | 3 | < 20 | < 10 | 140 | 29 | < 1 |
| 92048 | < 5 | 0.38 | 17.14 | 5.76 | 9.72 | 0.354 | 11.88 | 22.80 | 0.32 | 3.87 | 0.321 | 1.79 | 25.02 | 98.98 | 40 | 3 | 111 | 50 | 9 | 20 | < 10 | 300 | 17 | 1 |
| 92049 | < 5 | 0.09 | 44.79 | 12.62 | 16.57 | 0.093 | 3.48 | 2.86 | 0.35 | 10.35 | 3.658 | 0.43 | 3.51 | 98.71 | 15 | 4 | 321 | 350 | 32 | 130 | 20 | 90 | 17 | < 1 |
| 92050 | < 5 | < 0.01 | 99.39 | 0.08 | 0.43 | 0.005 | 0.04 | 0.08 | < 0.01 | 0.04 | 0.011 | < 0.01 | 0.11 | 100.2 | < 1 | < 1 | < 5 | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 |
| 92051 | 10 | 0.05 | 32.18 | 9.48 | 9.10 | 0.240 | 7.48 | 14.28 | 4.90 | 0.65 | 1.665 | 0.42 | 19.22 | 99.62 | 20 | 2 | 192 | 130 | 36 | 80 | 90 | 90 | 11 | < 1 |
| 92052 | < 5 | 1.76 | 27.09 | 6.47 | 11.41 | 0.488 | 16.58 | 10.41 | 0.10 | 4.11 | 2.261 | 0.21 | 17.87 | 97.01 | 67 | 63 | 317 | 1440 | 75 | 660 | < 10 | 580 | 14 | 1 |
| 92053 | < 5 | 0.24 | 14.41 | 1.02 | 7.01 | 0.957 | 13.05 | 25.46 | 0.08 | 0.25 | 0.195 | 1.32 | 33.38 | 97.12 | 80 | 5 | 50 | 50 | 3 | 20 | 10 | 330 | 23 | 2 |
| 92054 | < 5 | 1.09 | 16.66 | 3.86 | 11.07 | 1.174 | 13.47 | 20.06 | 0.08 | 2.55 | 0.642 | 1.84 | 26.31 | 97.72 | 59 | 3 | 102 | 250 | 22 | 120 | < 10 | 390 | 12 | 1 |
| 92055 | < 5 | 0.07 | 63.05 | 15.77 | 4.46 | 0.058 | 0.81 | 1.07 | 4.95 | 6.58 | 0.826 | 0.18 | 1.15 | 98.93 | 5 | 2 | 33 | 30 | 3 | < 20 | < 10 | 60 | 31 | < 1 |
| 92056 | < 5 | 0.23 | 7.48 | 2.56 | 12.10 | 0.318 | 8.00 | 29.61 | 0.18 | 0.36 | 0.510 | 1.94 | 33.09 | 96.16 | 10 | 8 | 144 | 40 | 18 | 20 | 20 | 160 | 9 | < 1 |
| 92057 | < 5 | 0.37 | 6.23 | 2.40 | 8.29 | 0.555 | 14.80 | 27.31 | 0.08 | 1.49 | 0.216 | 1.06 | 36.13 | 98.55 | 26 | 7 | 71 | 50 | 10 | 30 | < 10 | 190 | 11 | < 1 |
| 92058 | < 5 | < 0.01 | 61.12 | 11.83 | 3.38 | 0.064 | 2.46 | 5.02 | 3.48 | 4.98 | 0.667 | 0.13 | 7.56 | 100.7 | 5 | 16 | 30 | < 20 | 3 | < 20 | 10 | 70 | 22 | < 1 |
| 92059 | < 5 | 0.03 | 69.37 | 10.85 | 2.74 | 0.057 | 1.75 | 3.88 | 4.04 | 1.69 | 0.654 | 0.10 | 5.36 | 100.5 | 4 | 9 | 28 | < 20 | 2 | < 20 | < 10 | 70 | 22 | < 1 |
| 92060 | 10 | 0.15 | 36.48 | 9.87 | 14.18 | 0.405 | 5.92 | 9.25 | 0.33 | 3.96 | 2.595 | 0.28 | 14.71 | 97.97 | 82 | 41 | 327 | 70 | 37 | 60 | 210 | 400 | 14 | < 1 |
| 92061 | < 5 | 0.13 | 12.07 | 1.93 | 12.78 | 0.609 | 11.01 | 24.47 | 0.05 | 0.85 | 0.518 | 1.02 | 33.30 | 98.61 | 38 | 12 | 112 | 30 | 16 | 20 | 40 | 230 | 11 | 1 |
| 92062 | < 5 | 3.78 | 36.02 | 0.09 | 10.32 | 1.378 | 6.55 | 19.30 | 0.02 | 0.04 | 0.096 | 0.08 | 24.25 | 98.15 | 37 | 10 | 29 | 20 | 3 | < 20 | < 10 | 290 | 6 | 2 |
| 92063 | 16 | 0.29 | 3.03 | 0.88 | 38.30 | 1.601 | 6.88 | 14.18 | 0.02 | 0.52 | 0.043 | 0.21 | 31.95 | 97.61 | 38 | 20 | 53 | 40 | 17 | < 20 | < 10 | 1440 | 4 | 2 |
| 92064 | < 5 | 0.68 | 24.09 | 6.20 | 8.42 | 0.499 | 10.62 | 18.80 | 1.42 | 2.00 | 0.608 | 0.77 | 24.54 | 97.96 | 40 | 16 | 129 | 150 | 16 | 50 | 10 | 250 | 13 | 2 |
| 92065 | < 5 | 0.11 | 26.49 | 0.24 | 6.31 | 0.677 | 9.67 | 22.03 | 0.02 | 0.09 | 0.189 | 0.45 | 29.74 | 95.91 | 47 | 18 | 10 | 30 | 6 | 20 | < 10 | 360 | 20 | 4 |
| 92066 | < 5 | < 0.01 | 48.57 | 24.51 | 6.89 | 0.081 | 2.46 | 10.17 | 3.87 | 0.64 | 1.102 | 0.16 | 2.41 | 100.9 | 13 | 1 | 98 | 70 | 21 | 50 | 20 | 70 | 17 | 1 |
| 92067 | < 5 | 0.09 | 40.69 | 18.17 | 13.93 | 0.144 | 3.70 | 8.02 | 3.64 | 1.63 | 2.648 | 0.34 | 6.45 | 99.35 | 21 | 3 | 206 | 50 | 47 | 50 | 40 | 130 | 20 | 1 |
| 92068 | 11 | 0.17 | 14.50 | 0.62 | 40.83 | 2.783 | 4.07 | 9.30 | 0.03 | 0.30 | 0.129 | 0.18 | 24.97 | 97.72 | 24 | 9 | 34 | 40 | 23 | < 20 | < 10 | 1440 | 6 | 2 |
| 92069 | 20 | 0.09 | 0.91 | 0.22 | 57.90 | 3.555 | 3.19 | 4.89 | 0.01 | 0.10 | 0.049 | 0.23 | 25.89 | 97.32 | 35 | 13 | 25 | 50 | 39 | 30 | 10 | 2290 | 7 | 2 |
| 92070 | 8 | 0.12 | 74.83 | 0.31 | 8.88 | 0.489 | 1.33 | 5.56 | 0.01 | 0.14 | 0.049 | 0.76 | 8.16 | 100.5 | 19 | 2 | 15 | 30 | 6 | < 20 | 10 | 290 | 3 | 2 |
| 92071 | < 5 | 1.97 | 37.72 | 0.66 | 8.11 | 0.915 | 7.65 | 17.47 | 0.02 | 0.52 | 0.386 | 0.06 | 24.47 | 97.99 | 31 | 11 | 71 | 80 | 17 | 60 | < 10 | 970 | 7 | 2 |
| 92072 | < 5 | 0.10 | 9.01 | 0.13 | 9.75 | 1.704 | 13.04 | 22.44 | 0.01 | 0.08 | 0.034 | 0.74 | 36.64 | 93.58 | 74 | 6 | 21 | 20 | 5 | 30 | < 10 | 1020 | 31 | 3 |
| 92073 | < 5 | 0.25 | 5.25 | 0.53 | 10.88 | 1.267 | 12.98 | 25.03 | 0.02 | 0.39 | 0.140 | 1.10 | 36.84 | 94.43 | 64 | 9 | 54 | 50 | 10 | 60 | 20 | 860 | 25 | 3 |
| 92074 | < 5 | 0.21 | 2.61 | 0.23 | 16.46 | 2.978 | 8.50 | 28.34 | 0.03 | 0.03 | 0.016 | 0.09 | 38.32 | 97.60 | 38 | 31 | 36 | 30 | 3 | 30 | < 10 | 280 | 6 | 2 |
| 92075 | < 5 | 0.17 | 8.61 | 0.93 | 6.03 | 0.862 | 13.93 | 27.76 | 0.18 | 0.27 | 0.131 | 0.69 | 37.85 | 97.23 | 20 | 46 | 23 | < 20 | 6 | < 20 | < 10 | 140 | 8 | 1 |
| 92076 | < 5 | 0.07 | 54.96 | 15.95 | 10.48 | 0.065 | 1.65 | 1.60 | 3.20 | 8.71 | 0.761 | 0.20 | 1.93 | 99.51 | 5 | 3 | 68 | < 20 | 4 | < 20 | < 10 | 90 | 34 | 1 |
| 92077 | < 5 | 0.11 | 43.40 | 12.59 | 14.17 | 0.152 | 5.13 | 4.40 | 0.30 | 9.54 | 2.816 | | | | | | | | | | | | | |

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| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92078 | < 5 | 0.79 | 25.43 | 9.61 | 8.79 | 0.385 | 9.18 | 18.55 | 1.39 | 4.58 | 0.432 | 2.82 | 17.74 | 98.91 | 35 | 7 | 173 | 60 | 20 | 30 | 10 | 150 | 16 | 2 |
| 92079 | < 5 | 0.58 | 3.34 | 0.23 | 7.32 | 0.369 | 3.42 | 46.24 | 0.34 | 0.20 | 0.209 | 5.50 | 31.68 | 98.86 | 5 | 6 | 119 | < 20 | 7 | < 20 | < 10 | 120 | 6 | 1 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92026 | < 5 | 44 | 462 | 36 | 165 | < 2 | < 0.5 | < 0.2 | 2 | 1.2 | 1.7 | 823 | < 0.4 | 193 | 369 | 39.9 | 151 | 24.1 | 5.69 | 15.7 | 1.9 | 9.0 | 1.4 | 3.7 |
| 92027 | < 5 | 24 | 1172 | 59 | 176 | 2 | < 0.5 | < 0.2 | 4 | 1.1 | 0.8 | 605 | < 0.4 | 311 | 580 | 63.4 | 237 | 37.0 | 9.71 | 23.8 | 2.8 | 13.9 | 2.1 | 5.4 |
| 92028 | < 5 | 10 | 1245 | 66 | 81 | 6 | < 0.5 | < 0.2 | 5 | 1.3 | < 0.5 | 281 | 0.8 | 488 | 874 | 91.6 | 325 | 46.3 | 11.6 | 29.6 | 3.5 | 16.6 | 2.5 | 6.3 |
| 92029 | 16 | 2 | 2070 | 515 | 330 | 25 | 2.5 | < 0.2 | 3 | 1.4 | < 0.5 | 494 | 0.4 | 8180 | 9510 | 631 | 1500 | 139 | 33.8 | 118 | 12.5 | 72.9 | 13.7 | 41.3 |
| 92030 | < 5 | 23 | 857 | 65 | 184 | 4 | 0.5 | < 0.2 | 5 | 1.1 | 0.6 | 522 | 2.4 | 396 | 659 | 66.8 | 228 | 33.2 | 8.61 | 22.3 | 2.7 | 14.0 | 2.3 | 5.8 |
| 92031 | 6 | 9 | 1149 | 122 | 64 | < 2 | < 0.5 | < 0.2 | 5 | 1.0 | < 0.5 | 484 | < 0.4 | 707 | 1520 | 169 | 658 | 102 | 26.2 | 61.6 | 7.1 | 32.3 | 4.8 | 11.2 |
| 92032 | 15 | < 2 | 1469 | 261 | 10 | 10 | < 0.5 | < 0.2 | 2 | 1.6 | < 0.5 | 272 | 5.1 | 5170 | 6540 | 505 | 1450 | 207 | 47.0 | 121 | 10.7 | 48.5 | 7.9 | 22.8 |
| 92033 | < 5 | 69 | 686 | 22 | 191 | < 2 | 0.6 | < 0.2 | 2 | 1.4 | 2.9 | 1509 | < 0.4 | 107 | 179 | 18.4 | 66.7 | 10.7 | 2.74 | 7.3 | 0.9 | 4.5 | 0.8 | 2.1 |
| 92034 | < 5 | 19 | 482 | 28 | 196 | < 2 | < 0.5 | < 0.2 | 4 | 1.3 | < 0.5 | 52 | < 0.4 | 89.4 | 171 | 18.9 | 69.6 | 11.4 | 2.42 | 7.5 | 1.0 | 5.4 | 1.0 | 3.2 |
| 92035 | 11 | 5 | 1241 | 120 | 47 | 2 | < 0.5 | < 0.2 | 1 | 1.2 | < 0.5 | 67 | < 0.4 | 530 | 1210 | 152 | 637 | 108 | 26.3 | 65.4 | 7.7 | 34.3 | 4.7 | 10.5 |
| 92036 | < 5 | 117 | 393 | 4 | 98 | < 2 | < 0.5 | < 0.2 | < 1 | 1.2 | 1.3 | 813 | < 0.4 | 32.1 | 60.5 | 6.54 | 24.4 | 3.8 | 1.02 | 2.1 | 0.2 | 1.1 | 0.1 | 0.4 |
| 92037 | 11 | 30 | 547 | 736 | 52 | 27 | < 0.5 | 0.6 | 38 | 1.2 | 1.4 | 714 | 9.2 | 1560 | 2410 | 250 | 1110 | 355 | 101 | 247 | 30.9 | 146 | 21.9 | 51.0 |
| 92038 | < 5 | 10 | 1221 | 74 | 630 | < 2 | 1.6 | < 0.2 | 7 | 1.2 | < 0.5 | 769 | < 0.4 | 382 | 726 | 81.4 | 306 | 49.0 | 13.0 | 32.5 | 4.0 | 19.2 | 2.9 | 6.8 |
| 92039 | < 5 | 155 | 121 | 39 | 322 | < 2 | 0.8 | < 0.2 | 5 | 1.1 | < 0.5 | 264 | < 0.4 | 149 | 300 | 33.7 | 119 | 18.5 | 2.99 | 10.6 | 1.4 | 8.0 | 1.5 | 4.5 |
| 92040 | < 5 | 24 | 1032 | 117 | 328 | 2 | 0.8 | < 0.2 | 5 | 1.1 | < 0.5 | 344 | < 0.4 | 440 | 930 | 111 | 430 | 71.6 | 18.2 | 48.0 | 5.7 | 27.9 | 4.5 | 12.2 |
| 92041 | < 5 | 64 | 108 | 73 | 837 | < 2 | 2.4 | < 0.2 | 8 | 1.2 | < 0.5 | 173 | < 0.4 | 152 | 299 | 33.8 | 125 | 20.8 | 3.51 | 15.2 | 2.4 | 14.0 | 2.6 | 7.8 |
| 92042 | < 5 | 130 | 140 | 37 | 382 | < 2 | 1.0 | < 0.2 | 6 | 1.2 | < 0.5 | 747 | < 0.4 | 67.4 | 147 | 16.9 | 62.5 | 10.0 | 1.83 | 7.1 | 1.2 | 6.9 | 1.4 | 4.1 |
| 92043 | 13 | 3 | 1804 | 236 | 63 | < 2 | < 0.5 | < 0.2 | < 1 | 1.4 | < 0.5 | 245 | 0.6 | 942 | 2340 | 280 | 1140 | 187 | 49.1 | 116 | 14.1 | 64.8 | 9.5 | 22.0 |
| 92044 | < 5 | 125 | 312 | 56 | 259 | 21 | 0.6 | < 0.2 | 5 | 1.2 | 0.7 | 275 | < 0.4 | 108 | 225 | 25.7 | 93.3 | 18.6 | 4.31 | 15.2 | 2.4 | 13.8 | 2.5 | 6.7 |
| 92045 | < 5 | 127 | 223 | 46 | 331 | 23 | 0.8 | < 0.2 | 5 | 1.0 | 0.7 | 355 | < 0.4 | 60.4 | 126 | 14.7 | 56.2 | 10.6 | 1.94 | 9.0 | 1.6 | 9.5 | 1.7 | 4.8 |
| 92046 | < 5 | 6 | 1328 | 72 | 53 | 9 | < 0.5 | < 0.2 | 1 | 1.2 | < 0.5 | 67 | < 0.4 | 89.5 | 198 | 23.7 | 92.6 | 18.3 | 4.28 | 16.1 | 2.9 | 16.8 | 3.0 | 7.6 |
| 92047 | < 5 | 122 | 190 | 39 | 230 | 3 | < 0.5 | < 0.2 | 7 | 1.3 | 0.6 | 402 | < 0.4 | 109 | 231 | 26.2 | 93.2 | 16.2 | 3.02 | 12.5 | 1.8 | 9.0 | 1.5 | 3.9 |
| 92048 | < 5 | 102 | 1054 | 76 | 68 | 14 | < 0.5 | < 0.2 | 8 | 1.2 | 0.8 | 211 | < 0.4 | 324 | 680 | 78.6 | 296 | 44.2 | 9.16 | 30.5 | 4.1 | 21.1 | 3.3 | 8.3 |
| 92049 | < 5 | 79 | 237 | 17 | 103 | < 2 | < 0.5 | < 0.2 | 3 | 1.5 | 0.9 | 1134 | < 0.4 | 47.6 | 102 | 12.4 | 50.3 | 8.8 | 2.06 | 6.0 | 0.8 | 4.0 | 0.7 | 1.9 |
| 92050 | < 5 | < 2 | 2 | < 2 | < 4 | < 2 | < 0.5 | < 0.2 | < 1 | 1.2 | < 0.5 | 4 | < 0.4 | 2.2 | 4.3 | 0.45 | 1.6 | 0.3 | < 0.05 | 0.2 | < 0.1 | 0.1 | < 0.1 | < 0.1 |
| 92051 | < 5 | 12 | 570 | 26 | 147 | < 2 | < 0.5 | < 0.2 | 1 | 1.2 | < 0.5 | 390 | < 0.4 | 28.3 | 59.7 | 7.32 | 30.3 | 6.1 | 1.86 | 5.0 | 0.8 | 4.4 | 0.8 | 2.2 |
| 92052 | 295 | 98 | 1150 | 170 | 240 | 32 | 0.7 | < 0.2 | 27 | 1.8 | 5.9 | 1456 | 2.4 | 141 | 350 | 48.3 | 220 | 60.1 | 15.5 | 49.5 | 7.6 | 40.1 | 6.6 | 16.1 |
| 92053 | 12 | 7 | 2589 | 310 | 114 | < 2 | < 0.5 | < 0.2 | 2 | 1.2 | < 0.5 | 343 | 1.4 | 2570 | 3790 | 333 | 1070 | 154 | 40.5 | 108 | 12.5 | 61.1 | 9.6 | 24.1 |
| 92054 | 10 | 65 | 1935 | 203 | 49 | 20 | < 0.5 | < 0.2 | 13 | 1.0 | 2.4 | 1201 | 1.6 | 506 | 1220 | 160 | 651 | 107 | 25.8 | 66.9 | 8.6 | 41.8 | 6.5 | 15.5 |
| 92055 | < 5 | 74 | 109 | 48 | 411 | < 2 | 1.0 | < 0.2 | 7 | 1.2 | < 0.5 | 465 | < 0.4 | 133 | 266 | 30.6 | 111 | 18.3 | 3.34 | 12.2 | 1.7 | 9.1 | 1.7 | 4.9 |
| 92056 | < 5 | 8 | 843 | 53 | 303 | < 2 | 0.9 | < 0.2 | 5 | 1.2 | < 0.5 | 269 | < 0.4 | 288 | 570 | 64.2 | 244 | 40.2 | 10.3 | 26.3 | 3.2 | 14.2 | 2.1 | 5.0 |
| 92057 | 5 | 24 | 1206 | 106 | 127 | 5 | < 0.5 | < 0.2 | 6 | 1.1 | < 0.5 | 242 | 0.8 | 579 | 1100 | 124 | 462 | 72.7 | 17.3 | 44.2 | 5.2 | 23.6 | 3.8 | 10.3 |
| 92058 | < 5 | 99 | 155 | 45 | 363 | < 2 | 0.9 | < 0.2 | 7 | 1.3 | < 0.5 | 910 | < 0.4 | 82.9 | 165 | 18.4 | 67.5 | 11.3 | 2.81 | 9.3 | 1.5 | 8.6 | 1.6 | 4.5 |
| 92059 | < 5 | 34 | 135 | 54 | 452 | < 2 | 1.1 | < 0.2 | 7 | 1.2 | 0.7 | 764 | < 0.4 | 88.1 | 174 | 19.4 | 71.4 | 12.4 | 2.79 | 10.4 | 1.7 | 9.8 | 1.8 | 5.1 |
| 92060 | < 5 | 36 | 513 | 144 | 161 | 8 | < 0.5 | < 0.2 | 20 | 1.2 | 2.1 | 1892 | 3.3 | 49.2 | 110 | 18.7 | 130 | 68.2 | 20.2 | 53.0 | 7.8 | 38.3 | 5.7 | 13.5 |
| 92061 | 7 | 9 | 1222 | 242 | 136 | 9 | < 0.5 | < 0.2 | 8 | 1.3 | 0.6 | 363 | 1.1 | 618 | 1160 | 137 | 607 | 187 | 56.8 | 139 | 16.0 | 64.8 | 8.5 | 18.2 |
| 92062 | < 5 | < 2 | 441 | 108 | 12 | < 2 | < 0.5 | < 0.2 | < 1 | 1.3 | < 0.5 | 38 | 3.4 | 217 | 899 | 145 | 556 | 56.1 | 10.3 | 23.6 | 2.5 | 14.8 | 3.3 | 12.2 |
| 92063 | 7 | 9 | 699 | 226 | 18 | 4 | < 0.5 | 0.5 | 11 | 1.5 | 1.0 | 182 | 10.5 | 27.2 | 87.2 | 33.1 | 409 | 265 | 74.8 | 148 | 14.7 | 56.4 | 8.1 | 17.2 |
| 92064 | 5 | 40 | 933 | 103 | 92 | 10 | < 0.5 | < 0.2 | 11 | 1.3 | 3.9 | 740 | 1.2 | 518 | 907 | 95.9 | 337 | 58.4 | 16.9 | 43.3 | 5.2 | 24.6 | 4.0 | 9.5 |
| 92065 | 20 | 2 | 766 | 180 | 39 | 3 | < 0.5 | < 0.2 | 2 | 1.3 | < 0.5 | 46 | 2.3 | 1950 | 4040 | 427 | 1450 | 168 | 37.1 | 95.9 | 9.8 | 42.0 | 6.8 | 16.8 |
| 92066 | < 5 | 14 | 665 | 18 | 118 | < 2 | < 0.5 | < 0.2 | 1 | 1.4 | < 0.5 | 334 | < 0.4 | 46.4 | 95.2 | 11.0 | 41.5 | 6.7 | 1.99 | 5.2 | 0.7 | 3.6 | 0.7 | 1.9 |
| 92067 | < 5 | 47 | 259 | 30 | 244 | < 2 | 0.7 | < 0.2 | 3 | 1.2 | 0.8 | 627 | < 0.4 | 37.3 | 79.5 | 9.88 | 40.7 | 8.5 | 2.89 | 7.4 | 1.2 | 6.3 | 1.2 | 3.2 |
| 92068 | 8 | 5 | 326 | 89 | 26 | 20 | < 0.5 | 0.5 | 5 | 1.5 | 0.5 | 119 | 15.7 | 118 | 455 | 124 | 845 | 180 | 33.9 | 61.1 | 5.1 | 20.9 | 3.3 | 9.8 |
| 92069 | 13 | < 2 | 241 | 127 | 37 | 4 | < 0.5 | 0.9 | 7 | 2.8 | < 0.5 | 68 | 13.6 | 250 | 565 | 123 | 916 | 286 | 63.1 | 119 | 10.4 | 36.2 | 4.9 | 11.5 |
| 92070 | < 5 | 2 | 268 | 83 | 11 | 3 | < 0.5 | < 0.2 | 11 | 1.6 | < 0.5 | 81 | 24.8 | 68.2 | 166 | 37.1 | 291 | 125 | 29.1 | 66.3 | 7.0 | 26.2 | 3.5 | 7.3 |
| 92071 | 51 | 7 | 692 | 86 | 35 | 17 | < 0.5 | < 0.2 | 21 | 1.6 | 0.7 | 366 | 2.9 | 354 | 1020 | 133 | 492 | 72.0 | 15.4 | 33.8 | 3.2 | 14.6 | 2.4 | 6.6 |
| 92072 | 12 | 2 | 1644 | 245 | 39 | 2 | < 0.5 | < 0.2 | 2 | 1.5 | < 0.5 | 212 | 2.7 | 6570 | 7400 | 508 | 1250 | 117 | 29.2 | 105 | 10.0 | 47.4 | 8.1 | 19.0 |
| 92073 | 11 | 11 | 2047 | 211 | 89 | 4 | < 0.5 | < 0.2 | 3 | 1.2 | 0.6 | 406 | 3.0 | 3890 | 5470 | 440 | 1220 | 132 | 31.8 | 98.7 | 9.3 | 40.4 | 6.6 | 15.5 |
| 92074 | 9 | < 2 | 1375 | 426 | 36 | 21 | < 0.5 | 0.8 | 6 | 1.3 | < 0.5 | 113 | 0.6 | 176 | 607 | 137 | 753 | 154 | 42.4 | 98.5 | 13.6 | 67.7 | 11.7 | 27.1 |
| 92075 | 7 | 5 | 1477 | 137 | 39 | < 2 | < 0.5 | < 0.2 | 2 | 1.3 | < 0.5 | 177 | 0.4 | 503 | 1110 | 135 | 517 | 82.7 | 21.7 | 53.8 | 6.2 | 28.1 | 4.5 | 10.4 |
| 92076 | < 5 | 97 | 126 | 60 | 645 | < 2 | 1.8 | < 0.2 | 13 | 1.4 | 0.7 | 264 | < 0.4 | 171 | 339 | 39.4 | 141 | 23.9 | 5.18 | 17.3 | 2.5 | 12.8 | 2.4 | 6.2 |
| 92077 | < 5 | 102 | 329 | 66 | 194 | < 2 | 0.5 | < 0.2 | 4 | 1.4 | 2.0 | 442 | 0.5 | 47.7 | 104 | 14.3 | 64.8 | 15.7 | 4.53 | 13.8 | 2.3 | 13.3 | 2.5 | 6.0 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92078 | < 5 | 86 | 1187 | 146 | 162 | 4 | 0.7 | < 0.2 | 4 | 1.3 | 1.2 | 723 | < 0.4 | 330 | 660 | 76.8 | 295 | 55.9 | 15.3 | 40.9 | 5.7 | 29.6 | 5.5 | 14.3 |
| 92079 | < 5 | 6 | 2416 | 98 | 398 | 2 | 1.1 | < 0.2 | 2 | 1.3 | < 0.5 | 298 | < 0.4 | 296 | 678 | 83.8 | 327 | 51.0 | 13.3 | 35.0 | 4.2 | 19.5 | 3.3 | 8.0 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92026 | 0.48 | 2.6 | 0.37 | 2.6 | 5.9 | 2 | 0.4 | 19 | 37.0 | 4.1 | 0.003 | 0.041 | 916 |
| 92027 | 0.67 | 3.8 | 0.56 | 3.3 | 4.0 | 6 | 0.2 | 33 | 50.8 | 1.5 | < 0.003 | 0.024 | 1220 |
| 92028 | 0.74 | 3.9 | 0.53 | 1.5 | 4.5 | 3 | 0.1 | 55 | 56.2 | 2.0 | < 0.003 | 0.058 | 851 |
| 92029 | 6.20 | 36.1 | 5.06 | 4.2 | < 0.1 | 3 | < 0.1 | 31 | 487 | 0.3 | < 0.003 | 0.011 | 1160 |
| 92030 | 0.72 | 3.8 | 0.50 | 2.9 | 0.5 | 2 | 0.2 | 58 | 36.1 | 0.9 | < 0.003 | 0.076 | 716 |
| 92031 | 1.16 | 5.8 | 0.75 | 1.3 | 0.1 | 2 | < 0.1 | 21 | 25.4 | 0.5 | < 0.003 | 0.071 | 556 |
| 92032 | 3.20 | 19.1 | 2.72 | 0.3 | < 0.1 | 2 | < 0.1 | 181 | 756 | < 0.1 | < 0.003 | 0.014 | 1170 |
| 92033 | 0.27 | 1.6 | 0.27 | 4.8 | 3.8 | 5 | 0.2 | 6 | 14.1 | 0.7 | 0.003 | 0.014 | 320 |
| 92034 | 0.48 | 3.1 | 0.48 | 5.4 | 7.7 | 6 | < 0.1 | 5 | 9.0 | 0.6 | < 0.003 | 0.021 | 773 |
| 92035 | 1.04 | 4.8 | 0.61 | 1.2 | 1.1 | 2 | < 0.1 | 33 | 18.8 | 0.2 | < 0.003 | 0.011 | 1560 |
| 92036 | 0.05 | 0.3 | 0.05 | 2.3 | 0.3 | < 1 | 0.7 | 14 | 7.5 | 0.2 | < 0.003 | < 0.003 | 662 |
| 92037 | 6.07 | 31.7 | 4.08 | 1.2 | < 0.1 | 2 | 0.5 | 539 | 1250 | 0.2 | < 0.003 | 0.033 | 1100 |
| 92038 | 0.79 | 4.1 | 0.59 | 10.9 | 11.4 | 2 | < 0.1 | 24 | 39.8 | 5.0 | 0.003 | 0.050 | 664 |
| 92039 | 0.68 | 4.4 | 0.63 | 6.2 | 8.3 | 5 | 0.2 | 13 | 19.0 | 0.9 | < 0.003 | 0.031 | 1290 |
| 92040 | 1.78 | 10.6 | 1.54 | 4.2 | 7.9 | 3 | < 0.1 | 17 | 72.1 | 7.7 | 0.003 | 0.036 | 915 |
| 92041 | 1.23 | 7.7 | 1.27 | 17.7 | 9.9 | 6 | < 0.1 | 8 | 20.4 | 2.4 | 0.003 | 0.024 | 819 |
| 92042 | 0.68 | 4.5 | 0.71 | 7.2 | 6.4 | 4 | 0.2 | 15 | 11.6 | 0.9 | < 0.003 | 0.015 | 856 |
| 92043 | 2.22 | 10.1 | 1.14 | 1.2 | < 0.1 | 1 | < 0.1 | 14 | 45.1 | < 0.1 | < 0.003 | 0.018 | 1170 |
| 92044 | 0.77 | 3.7 | 0.47 | 11.7 | 8.0 | 4 | 0.2 | 13 | 10.2 | 1.1 | < 0.003 | 0.023 | 784 |
| 92045 | 0.61 | 2.8 | 0.34 | 8.2 | 9.3 | 6 | 0.2 | 12 | 3.5 | 1.0 | < 0.003 | 0.019 | 502 |
| 92046 | 0.98 | 4.6 | 0.61 | 1.2 | 0.3 | 2 | < 0.1 | 14 | 10.7 | 0.3 | < 0.003 | 0.007 | 358 |
| 92047 | 0.56 | 2.8 | 0.39 | 6.3 | 9.1 | 4 | 0.2 | 14 | 7.7 | 1.2 | < 0.003 | 0.026 | 603 |
| 92048 | 1.01 | 5.1 | 0.65 | 1.2 | 10.8 | 1 | 0.2 | 119 | 56.6 | 2.6 | < 0.003 | 0.021 | 465 |
| 92049 | 0.22 | 1.4 | 0.20 | 2.2 | 2.9 | 28 | 0.1 | 13 | 10.0 | 0.6 | < 0.003 | 0.026 | 541 |
| 92050 | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 0.1 | 1 | < 0.1 | < 5 | 0.4 | < 0.1 | < 0.003 | < 0.003 | 166 |
| 92051 | 0.33 | 1.9 | 0.28 | 2.9 | 1.5 | 7 | < 0.1 | < 5 | 4.5 | 0.8 | < 0.003 | 0.005 | 247 |
| 92052 | 1.78 | 7.7 | 0.82 | 6.3 | 0.9 | 4 | 1.3 | 74 | 169 | 0.2 | < 0.003 | 0.038 | 845 |
| 92053 | 2.79 | 13.6 | 1.72 | 1.3 | 0.3 | 2 | 0.1 | 93 | 173 | 0.6 | < 0.003 | 0.016 | 765 |
| 92054 | 1.73 | 8.1 | 0.94 | 1.4 | 0.1 | 3 | 0.6 | 101 | 106 | 0.6 | < 0.003 | 0.094 | 1410 |
| 92055 | 0.75 | 4.6 | 0.73 | 9.4 | 8.8 | 5 | < 0.1 | 7 | 18.3 | 1.0 | < 0.003 | 0.024 | 564 |
| 92056 | 0.61 | 3.2 | 0.48 | 4.6 | 4.2 | 2 | < 0.1 | 22 | 29.7 | 5.1 | < 0.003 | 0.040 | 693 |
| 92057 | 1.40 | 7.7 | 1.05 | 1.7 | 3.5 | 3 | < 0.1 | 68 | 82.8 | 8.3 | 0.003 | 0.070 | 677 |
| 92058 | 0.65 | 3.7 | 0.55 | 7.7 | 6.7 | 7 | 0.2 | 6 | 7.2 | 1.0 | < 0.003 | 0.022 | 629 |
| 92059 | 0.74 | 4.4 | 0.67 | 9.4 | 6.5 | 4 | < 0.1 | 5 | 6.5 | 1.0 | 0.003 | 0.020 | 680 |
| 92060 | 1.72 | 9.6 | 1.31 | 5.6 | 2.5 | 12 | 0.5 | 163 | 182 | 0.4 | < 0.003 | 0.078 | 493 |
| 92061 | 2.02 | 10.5 | 1.38 | 2.6 | 1.5 | 4 | 0.1 | 144 | 314 | 0.7 | < 0.003 | 0.027 | 410 |
| 92062 | 2.25 | 14.8 | 2.20 | 0.3 | < 0.1 | 1 | < 0.1 | 73 | 175 | 0.1 | < 0.003 | 0.017 | 400 |
| 92063 | 1.99 | 10.5 | 1.43 | 0.7 | < 0.1 | 2 | 0.5 | 572 | 1020 | < 0.1 | < 0.003 | 0.007 | 916 |
| 92064 | 1.21 | 7.1 | 0.93 | 2.4 | 2.0 | 4 | 0.4 | 72 | 94.9 | 1.7 | < 0.003 | 0.034 | 428 |
| 92065 | 2.12 | 12.5 | 1.80 | 0.7 | < 0.1 | 5 | < 0.1 | 61 | 172 | 0.3 | < 0.003 | 0.039 | 1200 |
| 92066 | 0.26 | 1.5 | 0.26 | 2.6 | 1.1 | 1 | < 0.1 | 5 | 6.6 | 0.4 | < 0.003 | < 0.003 | 534 |
| 92067 | 0.44 | 2.5 | 0.41 | 5.7 | 2.8 | 2 | 0.1 | 6 | 7.8 | 0.6 | < 0.003 | 0.006 | 525 |
| 92068 | 1.33 | 8.1 | 1.12 | 0.7 | < 0.1 | 2 | 0.2 | 672 | 656 | 0.5 | < 0.003 | 0.018 | 567 |
| 92069 | 1.31 | 7.8 | 1.13 | 1.3 | < 0.1 | 3 | < 0.1 | 833 | 1280 | < 0.1 | < 0.003 | 0.014 | 502 |
| 92070 | 0.83 | 4.3 | 0.54 | 0.4 | < 0.1 | 2 | 0.1 | 1140 | 268 | < 0.1 | < 0.003 | 0.021 | 722 |
| 92071 | 0.89 | 5.1 | 0.66 | 0.9 | 0.2 | 4 | 0.9 | 372 | 160 | < 0.1 | < 0.003 | 0.049 | 537 |
| 92072 | 2.19 | 10.6 | 1.41 | 0.8 | < 0.1 | 2 | < 0.1 | 90 | 153 | 0.5 | < 0.003 | 0.012 | 333 |
| 92073 | 1.79 | 9.6 | 1.36 | 1.2 | 2.3 | 3 | 0.1 | 115 | 183 | 2.7 | < 0.003 | 0.041 | 183 |
| 92074 | 3.15 | 15.5 | 2.01 | 0.7 | < 0.1 | 3 | < 0.1 | 124 | 872 | < 0.1 | < 0.003 | < 0.003 | 579 |
| 92075 | 1.22 | 6.2 | 0.81 | 0.8 | 0.2 | 3 | < 0.1 | 39 | 44.4 | 0.5 | < 0.003 | 0.087 | 692 |
| 92076 | 0.89 | 4.7 | 0.64 | 15.4 | 9.3 | 3 | 0.2 | 10 | 19.6 | 1.0 | < 0.003 | 0.025 | 1010 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92077 | 0.78 | 4.1 | 0.63 | 3.7 | 2.7 | 22 | 0.2 | 8 | 31.9 | 1.2 | < 0.003 | 0.033 | 881 |
| 92078 | 1.96 | 11.6 | 1.66 | 2.7 | 11.9 | 4 | 0.1 | 37 | 116 | 11.8 | 0.003 | 0.036 | 469 |
| 92079 | 1.05 | 6.0 | 0.88 | 2.0 | 49.5 | 1 | < 0.1 | 33 | 17.5 | 24.7 | 0.008 | 0.026 | 636 |

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Quality Control

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
|-----------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | 11.26 | 1.89 | 0.74 | 0.012 | 0.34 | 42.97 | 0.85 | 0.54 | 0.116 | 30.17 | | | | | 1646 | | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | |
| DNC-1 Meas | | | 47.09 | 18.35 | 9.73 | 0.146 | 10.10 | 11.41 | 1.93 | 0.23 | 0.478 | 0.08 | | | 31 | | 159 | | 58 | 250 | 100 | 70 | | | |
| DNC-1 Cert | | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | 270.0 | 57.0 | 247 | 100.0 | 70.0 | | | |
| GBW 07113 Meas | | 0.13 | 72.25 | 12.58 | 3.24 | 0.143 | 0.14 | 0.59 | 2.47 | 5.38 | 0.273 | 0.05 | | | 5 | 4 | < 5 | | | | | | | | |
| GBW 07113 Cert | | 0.130 | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | 80 | 30 | 50 | 30 | 120 | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | 152 | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | 52.20 | 15.22 | 10.72 | 0.165 | 6.21 | 10.94 | 2.23 | 0.63 | 1.074 | 0.13 | | | 35 | < 1 | 279 | 90 | 44 | 70 | 110 | 80 | 18 | 2 | |
| W-2a Cert | | 0.0205 | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | 110 | 80.0 | 17.0 | 1.00 | |
| DTS-2b Meas | | | | | | | | | | | | | | | | | | 14500 | | | | | | | |
| DTS-2b Cert | | | | | | | | | | | | | | | | | | 15500 | | | | | | | |
| SY-4 Meas | | | 49.55 | 20.52 | 6.20 | 0.107 | 0.50 | 8.12 | 6.89 | 1.65 | 0.284 | 0.15 | | | 1 | 3 | 7 | | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | 50 | 40 | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | 54.0 | 38.0 | | |
| BIR-1a Meas | | | 47.96 | 15.90 | 11.47 | 0.173 | 9.64 | 13.47 | 1.83 | 0.02 | 0.980 | < 0.01 | | | 44 | < 1 | 343 | 370 | 53 | 170 | 130 | 80 | 15 | | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | | | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | 89 | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | 99 | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | 26 | 70 | 2600 | 7400 | 25 | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | 40 | 3 | | 960 | 100 | 17 | 11 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | 30 | 3.7 | | 960.000 | 100.000 | 16.5 | 11.2 |
| SGR-1b Meas | | 0.19 | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 17 | | 170 | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 18.1 | | 169 | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 48 | | 430 | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 48.8 | | 434 | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1280 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1290 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1200 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| DMMAS 111 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DMMAS 111 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCR-2 Meas | | | 54.90 | 13.94 | 14.05 | | 3.53 | 7.25 | 3.15 | 1.82 | 2.272 | 0.37 | | | 33 | | 449 | | | | | | | | |
| BCR-2 Cert | | | 54.1 | 13.5 | 13.8 | | 3.59 | 7.12 | 3.16 | 1.79 | 2.26 | 0.35 | | | 33 | | 416 | | | | | | | | |
| CDN-GS-P2 Meas | 220 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 229 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 234 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92034 Orig | | < 0.01 | 53.73 | 15.28 | 4.06 | 0.061 | 2.96 | 5.33 | 8.20 | 0.72 | 0.835 | 0.06 | 7.34 | 98.59 | 8 | 3 | 27 | 30 | 5 | < 20 | < 10 | 80 | 24 | < 1 | |
| 92034 Dup | | < 0.01 | 54.36 | 15.64 | 4.12 | 0.062 | 2.98 | 5.41 | 8.30 | 0.72 | 0.844 | 0.06 | 7.34 | 99.84 | 8 | 3 | 26 | 30 | 5 | < 20 | < 10 | 80 | 24 | < 1 | |
| 92035 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92035 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92045 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92045 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92051 Orig | | 0.05 | | | | | | | | | | | | | | | | 130 | 36 | 80 | 90 | 100 | 12 | < 1 | |
| 92051 Dup | | 0.05 | | | | | | | | | | | | | | | | 120 | 35 | 80 | 90 | 90 | 11 | < 1 | |
| 92055 Orig | < 5 | | | | | | | | | | | | | | | | | 30 | 3 | < 20 | < 10 | 60 | 31 | < 1 | |
| 92055 Split | < 5 | 0.09 | 62.85 | 15.93 | 4.28 | 0.056 | 0.78 | 0.95 | 4.81 | 6.45 | 0.817 | 0.17 | 1.13 | 98.22 | 5 | 2 | 33 | 20 | 3 | < 20 | < 10 | 60 | 33 | 2 | |
| 92055 Split | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92056 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92056 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92061 Orig | | 0.13 | 12.21 | 1.95 | 12.88 | 0.614 | 11.06 | 24.57 | 0.05 | 0.86 | 0.519 | 1.02 | 33.30 | 99.03 | 38 | 12 | 112 | 30 | 16 | 20 | 40 | 230 | 10 | 1 | |
| 92061 Dup | | 0.13 | 11.92 | 1.91 | 12.68 | 0.604 | 10.97 | 24.38 | 0.04 | 0.84 | 0.517 | 1.02 | 33.30 | 98.19 | 38 | 11 | 111 | 30 | 16 | 20 | 40 | 230 | 11 | 1 | |
| 92070 Orig | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92070 Dup | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92075 Orig | < 5 | 0.17 | | | | | | | | | | | | | | | | < 20 | 6 | < 20 | < 10 | 140 | 8 | 1 | |
| 92075 Split | < 5 | 0.18 | | | | | | | | | | | | | | | | < 20 | 7 | < 20 | < 10 | 140 | 8 | 1 | |
| 92076 Orig | | 0.07 | 55.48 | 16.08 | 10.48 | 0.066 | 1.67 | 1.60 | 3.27 | 8.91 | 0.765 | 0.21 | 1.93 | 100.5 | 5 | 3 | 67 | 20 | 4 | < 20 | < 10 | 90 | 34 | 1 | |
| 92076 Dup | | 0.07 | 54.43 | 15.83 | 10.49 | 0.065 | 1.64 | 1.59 | 3.12 | 8.51 | 0.758 | 0.20 | 1.93 | 98.56 | 5 | 3 | 68 | < 20 | 4 | < 20 | < 10 | 90 | 35 | 1 | |
| 92079 Orig | < 5 | 0.58 | 3.34 | 0.23 | 7.32 | 0.369 | 3.42 | 46.24 | 0.34 | 0.20 | 0.209 | 5.50 | 31.68 | 98.86 | 5 | 6 | 119 | < 20 | 7 | < 20 | < 10 | 120 | 6 | 1 | |
| 92079 Split | < 5 | 0.59 | 3.45 | 0.25 | 7.58 | 0.371 | 3.52 | 45.60 | 0.36 | 0.22 | 0.225 | 5.61 | 31.76 | 98.94 | 5 | 6 | 122 | < 20 | 7 | < 20 | < 10 | 110 | 5 | 1 | |
| 92079 Split | | 0.59 | 3.45 | 0.25 | 7.58 | 0.371 | 3.52 | 45.60 | 0.36 | 0.22 | 0.225 | 5.61 | 31.76 | 98.94 | 5 | 6 | 122 | < 20 | 7 | < 20 | < 10 | 110 | 5 | 1 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|---------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | 144 | 16 | 35 | | | | | 0.7 | | 106 | | 3.9 | | | 5.2 | | 0.59 | | | | | |
| DNC-1 Cert | | | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | |
| GBW 07113 Meas | | | 40 | 46 | 384 | | | | | | | 497 | | | | | | | | | | | | |
| GBW 07113 Cert | | | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | |
| LKSD-3 Meas | 26 | 72 | | | | < 2 | 2.4 | | 3 | 1.0 | 2.4 | | | 47.5 | 89.1 | | 44.1 | 8.1 | 1.45 | | 0.9 | 4.9 | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | 1.00 | 4.90 | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 19 | 196 | 19 | 86 | < 2 | < 0.5 | | | 0.9 | 0.9 | 174 | < 0.4 | 11.5 | 23.9 | | 13.2 | 3.3 | 1.11 | | 0.7 | 3.9 | 0.8 | 2.2 |
| W-2a Cert | | 21.0 | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 |
| DTS-2b Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DTS-2b Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SY-4 Meas | | | 1188 | 116 | 545 | | | | | | | 339 | | | | | | | | | | | | |
| SY-4 Cert | | | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2200 | 3340 | | 1140 | 167 | 45.5 | 134 | 15.3 | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | |
| BIR-1a Meas | | | 109 | 14 | 15 | | | | | < 0.5 | | 8 | | | 2.0 | | 2.5 | 1.1 | 0.52 | 1.8 | | | | |
| BIR-1a Cert | | | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | 1.9 | | 2.5 | 1.1 | 0.55 | 2.0 | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2350 | 171 | | 1560 | | 220 | 34.1 | 183 | 35.7 | 96.2 | |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | 225.0 | 34.6 | 183.000 | 35.70 | 96.2 | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | 270 | 16.7 | | | 180 | | | 80.3 | 41.7 | 82.0 | 9.77 | 37.8 | 7.9 | 1.68 | 7.3 | 1.2 | 6.4 | 1.3 | 3.5 |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | 70 | 506 | | | | 1.9 | 1.3 | 1700 | 3.2 | 44.1 | | | 22.7 | 57.1 | 7.74 | 31.7 | 12.7 | 0.10 | 14.5 | 3.3 | 20.8 | 4.4 | 13.3 |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | 1.8 | 1.3 | 1701.000 | 3.1 | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | 21 | | | | | | | | 249 | 448 | 44.9 | 147 | 24.3 | 3.64 | 21.4 | 3.7 | 22.8 | 4.9 | 14.6 |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 |
| OREAS 101a (Fusion) Meas | | | | | | 19 | | | | | | | | 778 | 1370 | 127 | 391 | 50.4 | 8.03 | 39.4 | 5.6 | 31.8 | 6.5 | 19.0 |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | 43.4 | 5.92 | 33.3 | 6.46 | 19.5 |
| JR-1 Meas | 19 | 246 | | | | 3 | < 0.5 | < 0.2 | 4 | 1.5 | 20.9 | | | 19.5 | 46.0 | 5.84 | 23.3 | 6.0 | 0.28 | | 1.0 | | | |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | | 1.01 | | | |
| NCS DC86318 Meas | | | | | | | | | | | | | | 1940 | 402 | 718 | 3260 | 1680 | 18.6 | 2040 | 476 | 3010 | 562 | 1630 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| NCS DC86318 Cert | | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18 91 | 2095 | 470 | 3220 | 560 | 1750 |
| SX58-04 (DH 5804) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX58-04 (DH 5804) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DMMAS 111 Meas | 1410 | | | | | | | | | | | | | | | | | | | | | | | |
| DMMAS 111 Cert | 1450 | | | | | | | | | | | | | | | | | | | | | | | |
| BCR-2 Meas | | | 351 | 33 | 173 | | | | | | | 705 | | | | | | | | | | | | |
| BCR-2 Cert | | | 346 | 37 | 188 | | | | | | | 683 | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 20700 | 28600 | 2400 | 6400 | 516 | 85.4 | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | |
| 92034 Orig | < 5 | 19 | 480 | 28 | 195 | < 2 | < 0.5 | < 0.2 | 4 | 1.1 | < 0.5 | 53 | < 0.4 | 87.1 | 166 | 18.4 | 67.8 | 11.4 | 2.38 | 7.3 | 1.0 | 5.3 | 1.0 | 3.1 |
| 92034 Dup | < 5 | 19 | 485 | 28 | 198 | < 2 | 0.5 | < 0.2 | 4 | 1.5 | < 0.5 | 52 | < 0.4 | 91.7 | 175 | 19.4 | 71.5 | 11.4 | 2.46 | 7.6 | 1.0 | 5.5 | 1.0 | 3.3 |
| 92035 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92035 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92045 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92045 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92051 Orig | < 5 | 12 | | | | < 2 | < 0.5 | < 0.2 | 1 | 1.2 | < 0.5 | | < 0.4 | 28.7 | 60.7 | 7.43 | 30.6 | 6.0 | 1.87 | 5.1 | 0.8 | 4.4 | 0.8 | 2.3 |
| 92051 Dup | < 5 | 12 | | | | < 2 | < 0.5 | < 0.2 | 1 | 1.2 | < 0.5 | | < 0.4 | 27.9 | 58.7 | 7.21 | 30.0 | 6.2 | 1.86 | 4.8 | 0.8 | 4.4 | 0.8 | 2.2 |
| 92055 Orig | < 5 | 74 | | | | < 2 | 1.0 | < 0.2 | 7 | 1.2 | < 0.5 | | < 0.4 | 133 | 266 | 30.6 | 111 | 18.3 | 3.34 | 12.2 | 1.7 | 9.1 | 1.7 | 4.9 |
| 92055 Split | < 5 | 77 | 103 | 46 | 391 | < 2 | 1.1 | < 0.2 | 8 | 1.4 | < 0.5 | 462 | < 0.4 | 132 | 269 | 31.0 | 110 | 17.6 | 3.33 | 12.8 | 1.8 | 9.5 | 1.9 | 5.0 |
| 92055 Split | | | | | | | | | | | | | | | | | | | | | | | | |
| 92056 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92056 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92061 Orig | 7 | 9 | 1226 | 242 | 138 | 9 | < 0.5 | < 0.2 | 8 | 1.4 | 0.6 | 369 | 0.9 | 611 | 1160 | 135 | 605 | 185 | 56.2 | 139 | 15.7 | 64.0 | 8.4 | 18.7 |
| 92061 Dup | 7 | 9 | 1217 | 242 | 133 | 10 | < 0.5 | < 0.2 | 8 | 1.3 | 0.6 | 356 | 1.2 | 626 | 1170 | 138 | 608 | 189 | 57.4 | 139 | 16.2 | 65.6 | 8.7 | 17.7 |
| 92070 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92070 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92075 Orig | 7 | 5 | | | | < 2 | < 0.5 | < 0.2 | 2 | 1.3 | < 0.5 | | 0.4 | 503 | 1110 | 135 | 517 | 82.7 | 21.7 | 53.8 | 6.2 | 28.1 | 4.5 | 10.4 |
| 92075 Split | 8 | 6 | | | | < 2 | < 0.5 | < 0.2 | 2 | 1.3 | 0.6 | | 0.5 | 498 | 1090 | 131 | 501 | 79.9 | 20.8 | 51.8 | 5.9 | 26.7 | 4.3 | 9.8 |
| 92076 Orig | < 5 | 97 | 127 | 59 | 649 | < 2 | 1.7 | < 0.2 | 13 | 1.4 | 0.7 | 267 | < 0.4 | 172 | 342 | 39.7 | 142 | 23.6 | 5.20 | 17.2 | 2.4 | 12.7 | 2.4 | 6.3 |
| 92076 Dup | < 5 | 98 | 124 | 61 | 641 | < 2 | 1.8 | < 0.2 | 13 | 1.5 | 0.8 | 262 | < 0.4 | 170 | 337 | 39.2 | 140 | 24.1 | 5.17 | 17.3 | 2.5 | 12.9 | 2.4 | 6.1 |
| 92079 Orig | < 5 | 6 | 2416 | 98 | 398 | 2 | 1.1 | < 0.2 | 2 | 1.3 | < 0.5 | 298 | < 0.4 | 296 | 678 | 83.8 | 327 | 51.0 | 13.3 | 35.0 | 4.2 | 19.5 | 3.3 | 8.0 |
| 92079 Split | < 5 | 6 | 2456 | 98 | 400 | < 2 | 1.3 | < 0.2 | 2 | 1.1 | < 0.5 | 307 | < 0.4 | 294 | 669 | 82.3 | 320 | 49.5 | 12.9 | 33.8 | 4.1 | 18.7 | 3.2 | 7.8 |
| 92079 Split | < 5 | 6 | 2456 | 98 | 400 | < 2 | 1.3 | < 0.2 | 2 | 1.1 | < 0.5 | 307 | < 0.4 | 294 | 669 | 82.3 | 320 | 49.5 | 12.9 | 33.8 | 4.1 | 18.7 | 3.2 | 7.8 |
| Method Blank Method Blank | < 5 | < 2 | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

Method Blank Method
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Method Blank Method
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Method Blank Method
Blank

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------------------|--------|--------|--------|--------|--------|---------|--------|----------|-----------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| DH-1a Meas | | | | | | | | | 931 | | | |
| DH-1a Cert | | | | | | | | | 910 | | | |
| TAN-1 Meas | | | | | 2440 | | | | | | | |
| TAN-1 Cert | | | | | 2360 | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | |
| DNC-1 Meas | | 2.0 | | | | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | |
| LKSD-3 Meas | | 2.8 | 0.42 | 4.1 | 0.7 | 2 | | | 11.0 | 4.5 | | |
| LKSD-3 Cert | | 2.70 | 0.400 | 4.80 | 0.700 | 2.00 | | | 11.4 | 4.60 | | |
| OKA-2 Meas | | | | | | | | | 28600 | | | |
| OKA-2 Cert | | | | | | | | | 28900.000 | | | |
| AC-E Meas | | | | | | | | | | | | 0.016 |
| AC-E Cert | | | | | | | | | | | | 0.016 |
| DR-N Meas | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | 0.534 |
| OKA-1 Cert | | | | | | | | | | | | 0.529 |
| W-2a Meas | 0.34 | 2.1 | 0.30 | 2.3 | 0.5 | < 1 | < 0.1 | 9 | 2.4 | 0.5 | | |
| W-2a Cert | 0.380 | 2.10 | 0.330 | 2.60 | 0.500 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 | | |
| DTS-2b Meas | | | | | | | | | | | | |
| DTS-2b Cert | | | | | | | | | | | | |
| SY-4 Meas | | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | | |
| CTA-AC-1 Meas | | 10.9 | 1.11 | 1.2 | 2.7 | | | | 22.9 | 4.1 | | |
| CTA-AC-1 Cert | | 11.4 | 1.08 | 1.13 | 2.65 | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | | 1.7 | 0.25 | 0.6 | | | | | | | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | | | | | | |
| NCS DC86312 Meas | 14.3 | 87.3 | 12.0 | | | | | | 25.1 | | | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | | 23.6 | | | |
| ZW-C Meas | | | | | | | | | | | 0.011 | |
| ZW-C Cert | | | | | | | | | | | 0.010 | |
| VS-N Meas | | | | | | | | | | | 0.097 | 0.101 |
| VS-N Cert | | | | | | | | | | | 0.098 | 0.10 |
| NCS DC70014 Meas | 0.56 | 3.5 | 0.52 | | | | | 27200 | | | | |
| NCS DC70014 Cert | 0.57 | 3.3 | 0.50 | | | | | 27200.00 | | | | |
| NCS DC86316 Meas | | | | 712 | | | | | | | | |
| NCS DC86316 Cert | | | | 712 | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.37 | 16.4 | 2.30 | | | 2200 | | | 28.1 | | | |
| NCS DC70009 (GBW07241) Cert | 2.2 | 14.9 | 2.4 | | | 2200.00 | | | 28.3 | | | |
| SGR-1b Meas | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.40 | 15.5 | 2.15 | | | | | | 51.2 | 137 | | |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | 2.96 | 18.4 | 2.54 | | | | | | 35.4 | 421 | | |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | 2.66 | | | | | | 36.6 | 422 | | |
| JR-1 Meas | 0.71 | 4.8 | 0.72 | 4.3 | 1.9 | | 1.6 | 21 | 27.2 | 9.1 | | |
| JR-1 Cert | 0.67 | 4.55 | 0.71 | 4.51 | 1.86 | | 1.56 | 19.3 | 26.7 | 8.88 | | |
| NCS DC86318 Meas | 270 | 1740 | 260 | | | | | | | | | |

| Quality Control | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| NCS DC86318 Cert | 270 | 1840 | 260.0 | | | | | | | | | |
| SX58-04 (DH 5804) Meas | | | | | | | | | | | | 0.372 |
| SX58-04 (DH 5804) Cert | | | | | | | | | | | | 0.369 |
| CDN-GS-1F Meas | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | |
| DMMAS 111 Meas | | | | | | | | | | | | |
| DMMAS 111 Cert | | | | | | | | | | | | |
| BCR-2 Meas | | | | | | | | | | | | |
| BCR-2 Cert | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | |
| 92034 Orig | 0.48 | 3.0 | 0.48 | 5.4 | 7.7 | 6 | < 0.1 | 5 | 9.0 | 0.6 | < 0.003 | 0.020 |
| 92034 Dup | 0.48 | 3.1 | 0.48 | 5.3 | 7.7 | 6 | < 0.1 | 5 | 9.0 | 0.6 | < 0.003 | 0.021 |
| 92035 Orig | | | | | | | | | | | | |
| 92035 Dup | | | | | | | | | | | | |
| 92045 Orig | | | | | | | | | | | | |
| 92045 Dup | | | | | | | | | | | | |
| 92051 Orig | 0.34 | 2.0 | 0.27 | 2.9 | 1.5 | 7 | < 0.1 | < 5 | 4.5 | 0.8 | < 0.003 | 0.006 |
| 92051 Dup | 0.32 | 1.8 | 0.28 | 2.8 | 1.4 | 7 | < 0.1 | < 5 | 4.6 | 0.8 | < 0.003 | 0.005 |
| 92055 Orig | 0.75 | 4.6 | 0.73 | 9.4 | 8.8 | 5 | < 0.1 | 7 | 18.3 | 1.0 | < 0.003 | 0.024 |
| 92055 Split | 0.78 | 4.9 | 0.76 | 10.2 | 8.8 | 4 | < 0.1 | 8 | 19.2 | 1.1 | 0.003 | 0.022 |
| 92055 Split | | | | | | | | | | | | |
| 92056 Orig | | | | | | | | | | | | |
| 92056 Dup | | | | | | | | | | | | |
| 92061 Orig | 2.05 | 10.4 | 1.40 | 2.6 | 1.3 | 4 | 0.1 | 140 | 316 | 0.6 | < 0.003 | 0.026 |
| 92061 Dup | 1.98 | 10.5 | 1.35 | 2.6 | 1.7 | 4 | 0.1 | 148 | 313 | 0.7 | < 0.003 | 0.027 |
| 92070 Orig | | | | | | | | | | | | |
| 92070 Dup | | | | | | | | | | | | |
| 92075 Orig | 1.22 | 6.2 | 0.81 | 0.8 | 0.2 | 3 | < 0.1 | 39 | 44.4 | 0.5 | < 0.003 | 0.087 |
| 92075 Split | 1.17 | 5.9 | 0.78 | 0.8 | 0.3 | 2 | < 0.1 | 39 | 43.2 | 0.5 | < 0.003 | 0.085 |
| 92076 Orig | 0.89 | 4.7 | 0.62 | 15.4 | 9.3 | 4 | 0.2 | 10 | 19.5 | 1.0 | < 0.003 | 0.026 |
| 92076 Dup | 0.88 | 4.7 | 0.65 | 15.4 | 9.3 | 3 | 0.2 | 10 | 19.6 | 1.0 | < 0.003 | 0.025 |
| 92079 Orig | 1.05 | 6.0 | 0.88 | 2.0 | 49.5 | 1 | < 0.1 | 33 | 17.5 | 24.7 | 0.008 | 0.026 |
| 92079 Split | 1.00 | 5.7 | 0.86 | 2.2 | 44.8 | 1 | < 0.1 | 30 | 17.7 | 24.0 | 0.008 | 0.027 |
| 92079 Split | 1.00 | 5.7 | 0.86 | 2.2 | 44.8 | 1 | < 0.1 | 30 | 17.7 | 24.0 | 0.008 | 0.027 |
| Method Blank Method Blank | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 0.1 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| Method Blank Method Blank | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | |

Quality Control

| | | | | | | | | | | | | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |

Method Blank Method
Blank

Method Blank Method
Blank

Method Blank Method
Blank

< 0.003 < 0.003



Date Submitted: 02-Aug-11
Invoice No.: A11-7906 (i)
Invoice Date: 08-Sep-11
Your Reference: Batch #5

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

23 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT **A11-7906 (i)**

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in blue ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A11-7906 (i)

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92080 | < 5 | 1.64 | 33.76 | 9.23 | 10.92 | 0.383 | 19.36 | 6.24 | 0.06 | 7.91 | 2.067 | 0.21 | 7.91 | 98.05 | 12 | 24 | 245 | 120 | 23 | < 20 | 20 | 230 | 18 | < 1 |
| 92081 | < 5 | 0.45 | 0.81 | 0.10 | 1.52 | 0.182 | 1.64 | 55.85 | 0.07 | 0.05 | 0.025 | 5.20 | 32.19 | 97.63 | 9 | 2 | 18 | < 20 | < 1 | < 20 | < 10 | < 30 | 3 | < 1 |
| 92082 | < 5 | 3.29 | 7.12 | 0.28 | 16.27 | 2.975 | 9.17 | 26.07 | 0.03 | 0.16 | 0.672 | 0.70 | 28.24 | 91.68 | 184 | 19 | 41 | 70 | 5 | 50 | 20 | 970 | 14 | < 1 |
| 92083 | < 5 | 1.93 | 50.21 | 1.07 | 27.95 | 4.103 | 0.99 | 3.26 | 0.03 | 0.20 | 0.653 | 0.31 | 9.00 | 97.79 | 37 | 29 | 99 | 300 | 19 | 120 | 40 | 1570 | 10 | < 1 |
| 92084 | < 5 | 3.64 | 0.54 | 0.08 | 9.30 | 1.671 | 13.95 | 30.80 | 0.02 | 0.07 | 0.515 | 1.02 | 34.18 | 92.13 | 56 | 8 | 152 | 30 | 9 | < 20 | < 10 | 1500 | 25 | 3 |
| 92085 | 31 | 0.02 | 21.00 | 0.06 | 50.50 | 5.402 | 1.63 | 0.51 | < 0.01 | < 0.01 | 0.006 | 0.21 | 18.28 | 97.59 | 57 | 29 | 47 | < 20 | 10 | < 20 | 20 | 2530 | 18 | 7 |
| 92086 | 10 | 1.47 | 6.39 | 2.07 | 53.31 | 5.404 | 3.86 | 2.53 | 0.04 | 0.60 | 0.462 | 0.22 | 22.60 | 97.47 | 58 | 18 | 92 | 330 | 21 | 100 | 50 | 1280 | 21 | 5 |
| 92087 | < 5 | 0.59 | 25.15 | 5.81 | 7.27 | 0.493 | 12.43 | 18.43 | 1.77 | 1.63 | 0.433 | 0.78 | 23.39 | 97.57 | 44 | 5 | 80 | 70 | 12 | 40 | 10 | 270 | 12 | < 1 |
| 92088 | < 5 | 16.0 | 17.08 | 0.14 | 2.48 | 0.246 | 8.59 | 42.08 | < 0.01 | 0.08 | 0.023 | 1.30 | 19.30 | 91.33 | 15 | 13 | 6 | < 20 | < 1 | < 20 | < 10 | 100 | 2 | < 1 |
| 92089 | < 5 | 0.28 | 10.16 | 0.97 | 8.77 | 1.028 | 14.64 | 25.02 | 0.01 | 0.51 | 0.570 | 0.44 | 32.29 | 94.41 | 41 | 9 | 87 | 180 | 16 | 110 | 30 | 270 | 15 | < 1 |
| 92090 | 47 | 4.58 | 15.60 | 2.98 | 33.69 | 3.650 | 6.59 | 8.88 | 0.10 | 1.23 | 1.107 | 0.72 | 22.09 | 96.64 | 131 | 90 | 243 | 430 | 54 | 260 | 70 | 2360 | 16 | < 1 |
| 92091 | 8 | 4.99 | 9.83 | 2.41 | 38.09 | 3.971 | 7.33 | 9.29 | 0.05 | 1.24 | 1.451 | 0.47 | 22.23 | 96.37 | 81 | 21 | 230 | 760 | 49 | 420 | 60 | 1630 | 17 | < 1 |
| 92092 | < 5 | 0.59 | 22.01 | 7.42 | 8.86 | 0.263 | 7.50 | 24.26 | 0.68 | 1.65 | 2.495 | 0.98 | 20.90 | 97.01 | 15 | 8 | 207 | 40 | 15 | < 20 | 40 | 120 | 16 | < 1 |
| 92093 | < 5 | 0.41 | 12.86 | 4.54 | 17.39 | 0.564 | 9.54 | 21.55 | 0.02 | 0.08 | 3.680 | 3.39 | 21.72 | 95.33 | 24 | 2 | 433 | < 20 | 35 | 30 | 120 | 230 | 22 | < 1 |
| 92094 | < 5 | 0.37 | 40.71 | 11.97 | 5.95 | 0.149 | 7.03 | 10.78 | 0.47 | 9.31 | 0.685 | 0.19 | 10.80 | 98.05 | 13 | 3 | 146 | < 20 | 6 | < 20 | < 10 | 150 | 25 | < 1 |
| 92095 | < 5 | 0.33 | 16.71 | 2.35 | 7.57 | 0.566 | 12.66 | 26.07 | 0.28 | 0.71 | 0.422 | 1.58 | 28.89 | 97.80 | 29 | 11 | 72 | 60 | 8 | 30 | 20 | 180 | 8 | < 1 |
| 92096 | 129 | 0.38 | 27.51 | 8.38 | 13.62 | 0.639 | 9.18 | 15.03 | 1.44 | 1.32 | 1.802 | 0.70 | 18.37 | 97.99 | 42 | 28 | 210 | 200 | 27 | 120 | 130 | 300 | 14 | < 1 |
| 92097 | < 5 | 0.05 | 40.46 | 12.34 | 10.05 | 0.218 | 6.73 | 9.63 | 5.61 | 1.12 | 2.776 | 0.36 | 9.42 | 98.73 | 25 | < 1 | 243 | 110 | 35 | 90 | 60 | 80 | 18 | 2 |
| 92098 | < 5 | 0.07 | 31.52 | 10.07 | 34.78 | 0.033 | 2.23 | 0.50 | 0.27 | 3.00 | 0.589 | 0.29 | 15.95 | 99.26 | 13 | 2 | 427 | 80 | 58 | 270 | 380 | 1440 | 20 | < 1 |
| 92099 | < 5 | 0.29 | 4.30 | 0.22 | 5.43 | 0.401 | 4.57 | 45.52 | 0.02 | 0.02 | 0.058 | 3.30 | 32.62 | 96.44 | 5 | < 1 | 17 | < 20 | 2 | < 20 | < 10 | 80 | 3 | < 1 |
| 92100 | < 5 | 0.20 | 34.01 | 2.25 | 5.15 | 0.214 | 3.74 | 29.36 | 0.01 | 0.13 | 0.204 | 1.87 | 19.64 | 96.59 | 10 | 2 | 47 | 30 | 10 | 20 | 10 | 60 | 6 | < 1 |
| 92101 | 22 | < 0.01 | 92.00 | 0.93 | 3.93 | 0.011 | 0.13 | 0.24 | 0.20 | 0.31 | 0.054 | 0.03 | 0.95 | 98.78 | < 1 | < 1 | 8 | 40 | < 1 | < 20 | 10600 | 40 | 3 | 1 |
| 92102 | 6 | 0.04 | 48.81 | 14.65 | 22.23 | 0.054 | 1.32 | 0.92 | 4.94 | 4.08 | 1.377 | 0.20 | 0.76 | 99.34 | 5 | 2 | 274 | 20 | 4 | < 20 | 20 | 140 | 36 | 1 |

Activation Laboratories Ltd. Report: A11-7906 (i)

| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92080 | < 5 | 297 | 779 | 17 | 139 | 5 | 0.5 | < 0.2 | 8 | < 0.5 | 6.3 | 1393 | < 0.4 | 153 | 301 | 32.1 | 118 | 15.9 | 3.48 | 8.2 | 0.8 | 3.5 | 0.6 | 1.6 |
| 92081 | < 5 | < 2 | 3519 | 96 | 101 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 445 | < 0.4 | 346 | 854 | 105 | 438 | 68.9 | 17.5 | 41.4 | 5.0 | 23.0 | 3.7 | 9.6 |
| 92082 | 7 | 3 | 1576 | 307 | 81 | 8 | < 0.5 | 0.3 | 24 | < 0.5 | < 0.5 | 344 | 0.8 | 3050 | 4340 | 384 | 1620 | 348 | 87.7 | 197 | 18.8 | 73.0 | 10.2 | 23.7 |
| 92083 | < 5 | 4 | 157 | 223 | 54 | 134 | < 0.5 | 1.6 | 83 | < 0.5 | < 0.5 | 390 | 1.5 | 135 | 725 | 149 | 891 | 212 | 54.7 | 113 | 12.9 | 53.4 | 7.8 | 17.6 |
| 92084 | 10 | < 2 | 1756 | 205 | 33 | < 2 | 0.6 | 0.2 | 41 | < 0.5 | < 0.5 | 203 | 3.4 | 4720 | 9440 | 981 | 3280 | 388 | 84.0 | 164 | 14.2 | 52.1 | 7.0 | 14.9 |
| 92085 | 21 | < 2 | 86 | 140 | < 4 | 51 | 0.6 | 3.8 | 2 | 3.8 | < 0.5 | 56 | 4.4 | 263 | 727 | 238 | 2050 | 660 | 133 | 231 | 17.1 | 55.7 | 5.7 | 11.0 |
| 92086 | 13 | 13 | 187 | 396 | 63 | 67 | 0.5 | 2.2 | 18 | 2.5 | 0.7 | 2236 | 1.0 | 383 | 989 | 196 | 1300 | 454 | 103 | 219 | 21.9 | 97.4 | 14.2 | 31.9 |
| 92087 | < 5 | 34 | 1748 | 102 | 98 | 7 | < 0.5 | < 0.2 | 6 | 1.0 | 1.2 | 976 | < 0.4 | 588 | 1050 | 99.5 | 361 | 59.9 | 16.5 | 41.4 | 5.2 | 24.6 | 4.0 | 9.8 |
| 92088 | < 5 | < 2 | 1717 | 61 | 16 | 3 | < 0.5 | < 0.2 | 1 | 1.3 | < 0.5 | 171 | < 0.4 | 227 | 444 | 49.0 | 194 | 32.6 | 8.89 | 21.9 | 2.9 | 13.7 | 2.3 | 5.7 |
| 92089 | 6 | 10 | 2830 | 128 | 39 | 11 | < 0.5 | < 0.2 | 5 | 0.6 | < 0.5 | 793 | 0.6 | 4320 | 5470 | 366 | 969 | 88.7 | 25.3 | 69.5 | 6.9 | 30.3 | 4.6 | 10.6 |
| 92090 | < 5 | 28 | 623 | 802 | 132 | 1070 | 1.1 | 1.6 | 176 | 1.7 | 1.4 | 622 | 6.3 | 841 | 1710 | 225 | 1430 | 630 | 165 | 381 | 44.5 | 185 | 27.6 | 62.0 |
| 92091 | < 5 | 26 | 517 | 747 | 210 | 79 | 1.2 | 1.6 | 111 | < 0.5 | 1.2 | 754 | 1.5 | 1300 | 2210 | 259 | 1410 | 388 | 94.5 | 258 | 32.3 | 143 | 23.3 | 57.0 |
| 92092 | < 5 | 78 | 928 | 36 | 264 | < 2 | 1.2 | < 0.2 | 4 | < 0.5 | 4.8 | 1120 | < 0.4 | 138 | 252 | 26.2 | 100 | 16.8 | 4.50 | 11.9 | 1.5 | 7.5 | 1.3 | 3.5 |
| 92093 | < 5 | 4 | 1020 | 109 | 786 | < 2 | 3.9 | < 0.2 | 4 | < 0.5 | < 0.5 | 95 | < 0.4 | 524 | 1150 | 117 | 458 | 75.6 | 20.3 | 51.6 | 6.1 | 27.6 | 4.4 | 10.2 |
| 92094 | < 5 | 130 | 519 | 50 | 159 | 16 | 0.8 | < 0.2 | 6 | < 0.5 | 1.1 | 904 | < 0.4 | 102 | 249 | 30.0 | 116 | 23.3 | 4.91 | 15.6 | 2.3 | 12.3 | 2.2 | 6.0 |
| 92095 | < 5 | 18 | 1156 | 149 | 74 | 9 | < 0.5 | < 0.2 | 4 | < 0.5 | 0.5 | 556 | 0.7 | 621 | 1450 | 156 | 645 | 109 | 29.3 | 72.6 | 8.8 | 38.3 | 6.0 | 13.1 |
| 92096 | < 5 | 35 | 1056 | 73 | 168 | 7 | 0.8 | < 0.2 | 5 | < 0.5 | 1.2 | 1099 | 0.4 | 327 | 674 | 88.1 | 399 | 58.4 | 12.9 | 29.8 | 3.5 | 16.4 | 2.7 | 6.6 |
| 92097 | < 5 | 26 | 614 | 25 | 182 | < 2 | 0.8 | < 0.2 | 2 | < 0.5 | < 0.5 | 461 | < 0.4 | 43.9 | 94.4 | 11.2 | 44.6 | 9.1 | 2.76 | 7.1 | 1.0 | 5.5 | 1.0 | 2.7 |
| 92098 | < 5 | 69 | 29 | 24 | 93 | 33 | 0.8 | < 0.2 | 2 | < 0.5 | 0.6 | 1231 | < 0.4 | 111 | 210 | 22.9 | 79.5 | 13.1 | 2.99 | 8.2 | 1.1 | 5.9 | 1.1 | 3.1 |
| 92099 | < 5 | < 2 | 1230 | 71 | 208 | < 2 | 1.1 | < 0.2 | 2 | < 0.5 | < 0.5 | 97 | < 0.4 | 274 | 547 | 60.3 | 241 | 40.8 | 12.5 | 29.2 | 3.8 | 17.6 | 2.9 | 7.1 |
| 92100 | < 5 | 5 | 1271 | 42 | 135 | < 2 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 141 | < 0.4 | 151 | 332 | 38.4 | 156 | 26.9 | 7.25 | 18.1 | 2.4 | 10.7 | 1.7 | 4.4 |
| 92101 | < 5 | 4 | 24 | 3 | 13 | 4 | 0.5 | 0.2 | 2 | < 0.5 | < 0.5 | 102 | < 0.4 | 8.0 | 16.5 | 1.79 | 6.7 | 1.3 | 0.32 | 0.9 | 0.1 | 0.7 | 0.1 | 0.3 |
| 92102 | < 5 | 54 | 164 | 46 | 265 | < 2 | 1.4 | < 0.2 | 12 | < 0.5 | < 0.5 | 484 | < 0.4 | 118 | 241 | 26.0 | 92.8 | 16.0 | 4.08 | 12.0 | 1.9 | 10.7 | 2.0 | 5.5 |

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | none |
| 92080 | 0.22 | 1.3 | 0.19 | 2.0 | 15.9 | 12 | 1.5 | 11 | 10.9 | 1.1 | 594 |
| 92081 | 1.13 | 6.4 | 0.89 | 1.2 | 25.9 | 1 | < 0.1 | 83 | 208 | 81.0 | 884 |
| 92082 | 2.79 | 15.6 | 2.10 | 2.0 | 1.2 | 7 | 0.2 | 164 | 1410 | 0.8 | 295 |
| 92083 | 1.96 | 10.0 | 1.17 | 2.1 | 0.4 | 3 | 0.2 | 872 | 1730 | 0.2 | 421 |
| 92084 | 1.73 | 9.7 | 1.27 | 1.1 | 0.2 | 5 | 0.2 | 228 | 180 | 0.3 | 731 |
| 92085 | 1.35 | 7.8 | 1.07 | 0.5 | < 0.1 | < 1 | < 0.1 | 1450 | 2940 | 0.1 | 773 |
| 92086 | 3.49 | 18.7 | 2.40 | 2.9 | 0.7 | 3 | 0.4 | 567 | 2850 | 0.6 | 927 |
| 92087 | 1.15 | 6.0 | 0.79 | 2.6 | 1.9 | < 1 | 0.3 | 70 | 74.8 | 1.4 | 1430 |
| 92088 | 0.71 | 3.9 | 0.50 | 0.4 | 0.4 | < 1 | < 0.1 | 28 | 28.2 | 1.3 | 951 |
| 92089 | 1.23 | 6.4 | 0.84 | 1.2 | 0.1 | 2 | < 0.1 | 69 | 88.2 | 1.6 | 1330 |
| 92090 | 6.60 | 33.1 | 3.95 | 7.9 | 0.1 | 7 | 1.8 | 1400 | 3940 | 0.3 | 1940 |
| 92091 | 6.44 | 29.3 | 3.22 | 7.6 | 0.5 | 9 | 1.0 | 229 | 1930 | 0.4 | 990 |
| 92092 | 0.48 | 2.7 | 0.36 | 6.0 | 9.4 | 4 | 0.6 | 30 | 20.2 | 3.4 | 1090 |
| 92093 | 1.25 | 6.9 | 0.95 | 16.1 | 17.2 | 3 | < 0.1 | 36 | 58.7 | 15.0 | 1300 |
| 92094 | 0.79 | 4.6 | 0.65 | 5.6 | 8.7 | 2 | 0.2 | 50 | 14.4 | 1.1 | 692 |
| 92095 | 1.50 | 7.9 | 1.05 | 2.1 | 2.1 | < 1 | 0.2 | 90 | 97.7 | 2.7 | 990 |
| 92096 | 0.85 | 4.9 | 0.68 | 4.5 | 2.9 | 1 | 0.5 | 50 | 122 | 1.4 | 706 |
| 92097 | 0.34 | 2.0 | 0.33 | 4.1 | 2.9 | < 1 | < 0.1 | 5 | 4.3 | 0.6 | 1120 |
| 92098 | 0.44 | 2.9 | 0.48 | 2.2 | 2.3 | 2 | 0.6 | 34 | 14.1 | 35.7 | 1230 |
| 92099 | 0.82 | 4.6 | 0.63 | 2.5 | 9.6 | < 1 | < 0.1 | 23 | 30.4 | 6.6 | 520 |
| 92100 | 0.54 | 3.0 | 0.41 | 2.0 | 23.5 | < 1 | < 0.1 | 23 | 22.4 | 9.0 | 1390 |
| 92101 | < 0.05 | 0.3 | 0.05 | 0.2 | 0.4 | < 1 | < 0.1 | 9 | 1.8 | 0.1 | 414 |
| 92102 | 0.79 | 5.0 | 0.80 | 6.2 | 9.2 | 10 | < 0.1 | 12 | 13.3 | 1.1 | 557 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| NIST 694 Meas | | | 11.26 | 1.94 | 0.75 | 0.011 | 0.35 | 43.92 | 0.90 | 0.55 | 0.118 | 30.23 | | | 1670 | | | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | 1740 | | | | | | | | | |
| DNC-1 Meas | | | 46.69 | 18.72 | 9.76 | 0.149 | 10.02 | 11.28 | 1.94 | 0.23 | 0.483 | 0.06 | 31 | | 155 | 280 | 57 | 260 | 100 | 60 | | | | |
| DNC-1 Cert | | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | 31 | | 148.0 | 270.0 | 57.0 | 247 | 100.0 | 70.0 | | | | |
| GBW 07113 Meas | | 0.13 | 72.68 | 12.61 | 3.23 | 0.140 | 0.14 | 0.57 | 2.53 | 5.45 | 0.282 | 0.03 | 5 | 4 | < 5 | | | | | | | | | |
| GBW 07113 Cert | | 0.130 | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | 5.00 | 4.00 | 5.00 | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | 70 | 30 | 50 | 30 | 150 | | | 25 | 73 |
| LKSD-3 Cert | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | 152 | | | 27.0 | 78.0 |
| TDB-1 Meas | | | | | | | | | | | | | | | | 240 | | 90 | 340 | 180 | | | | 21 |
| TDB-1 Cert | | | | | | | | | | | | | | | | 251 | | 92 | 323 | 155 | | | | 23 |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | 51.71 | 14.95 | 10.49 | 0.169 | 6.25 | 10.90 | 2.21 | 0.61 | 1.055 | 0.14 | 35 | < 1 | 273 | 90 | 44 | 70 | 110 | | 18 | 1 | < 5 | 20 |
| W-2a Cert | | 0.0205 | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | 110 | | 17.0 | 1.00 | 1.20 | 21.0 |
| SY-4 Meas | | | 46.96 | 19.93 | 5.99 | 0.102 | 0.48 | 7.63 | 6.73 | 1.57 | 0.273 | 0.12 | 1 | 3 | < 5 | | | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | 1.1 | 2.6 | 8.0 | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | < 1 | | 60 | < 30 | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | 2.72 | | 54.0 | 38.0 | | | | |
| BIR-1a Meas | | | 47.65 | 15.74 | 11.22 | 0.174 | 9.55 | 13.34 | 1.83 | 0.02 | 0.950 | 0.02 | 43 | < 1 | 335 | 370 | 53 | 170 | 130 | 70 | 15 | | < 5 | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | | 0.44 | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | 1060 | 97 | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | 1050 | 99 | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | 25 | 70 | 2600 | 7400 | 25 | | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | 30 | 4 | < 20 | 970 | 110 | 17 | 11 | 72 | 524 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | 30 | 3.7 | 2.8 | 960.000 | 100.000 | 16.5 | 11.2 | 69.9 | 500.00 |
| SGR-1b Meas | | 0.20 | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | 17 | | 170 | | | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | 18.1 | | 169 | | | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | 47 | | 420 | | | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | 48.8 | | 434 | | | | | |
| OREAS 101b (Fusion) Meas | | | | | | | | | | | | | | | | | 45 | < 20 | 410 | | | | | |
| OREAS 101b (Fusion) Cert | | | | | | | | | | | | | | | | | 47 | 9 | 416 | | | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | 16 | | 15 | 253 |
| JR-1 Cert | | | | | | | | | | | | | | | | 2.83 | 0.83 | 1.67 | 2.68 | 30.6 | 16.1 | | 16.3 | 257 |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 25-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 25-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| BCR-2 Meas | | | 54.77 | 13.84 | 13.83 | | 3.58 | 7.11 | 3.29 | 1.83 | 2.277 | 0.36 | 34 | | 444 | | | | | | | | | |
| BCR-2 Cert | | | 54.1 | 13.5 | 13.8 | | 3.59 | 7.12 | 3.16 | 1.79 | 2.26 | 0.35 | 33 | | 416 | | | | | | | | | |
| CDN-GS-P2 Meas | 238 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 92089 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92089 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92094 Orig | | 0.37 | | | | | | | | | | | | | | < 20 | 6 | < 20 | < 10 | 150 | 25 | < 1 | < 5 | 131 |
| 92094 Dup | | 0.37 | | | | | | | | | | | | | | < 20 | 6 | < 20 | < 10 | 150 | 24 | 1 | < 5 | 129 |
| 92099 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92099 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Analyte Symbol | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | 146 | 17 | 34 | | | | | < 0.5 | | 106 | | 3.6 | | | 5.2 | | 0.58 | | | | | | | 2.0 | |
| DNC-1 Cert | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | | | | 2.0 |
| GBW 07113 Meas | 40 | 48 | 410 | | | | | | | 507 | | | | | | | | | | | | | | | |
| GBW 07113 Cert | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | < 2 | 3.3 | | 3 | 1.2 | | | | 47.1 | 88.6 | | 42.2 | 7.8 | 1.42 | | 0.9 | 4.9 | | | | 2.8 | |
| LKSD-3 Cert | | | | 2.00 | 2.70 | | 3.00 | 1.30 | | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | 1.00 | 4.90 | | | | 2.70 | |
| TDB-1 Meas | | | | | | | | | | | | 17.0 | 39.9 | | 23.9 | | 1.98 | | | | | | | 3.3 | |
| TDB-1 Cert | | | | | | | | | | | | 17 | 41 | | 23 | | 2.1 | | | | | | | 3.4 | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 196 | 20 | 86 | < 2 | < 0.5 | | | 1.0 | 0.9 | 172 | < 0.4 | 10.5 | 23.9 | | 12.8 | 3.4 | 1.08 | | 0.7 | 3.9 | 0.8 | 2.4 | 0.37 | 2.1 | |
| W-2a Cert | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 | 0.380 | 2.10 | |
| SY-4 Meas | 1182 | 114 | 524 | | | | | | | 327 | | | | | | | | | | | | | | | |
| SY-4 Cert | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | 2210 | 3330 | | 1140 | 168 | 45.8 | 133 | 15.1 | | | | | 10.9 | |
| CTA-AC-1 Cert | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | | 11.4 | |
| BIR-1a Meas | 109 | 15 | 13 | | | | | < 0.5 | | 8 | | | 2.0 | | 2.4 | 1.1 | 0.51 | 1.9 | | | | | | 1.7 | |
| BIR-1a Cert | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | 1.9 | | 2.5 | 1.1 | 0.55 | 2.0 | | | | | | 1.7 | |
| NCS DC86312 Meas | | | | | | | | | | | | 2330 | 179 | | 1560 | | | 221 | 34.1 | 183 | 35.5 | 95.9 | 14.2 | 86.0 | |
| NCS DC86312 Cert | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 | 15.1 | 87.79 | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | 270 | 16.6 | | | 180 | | | 80.3 | 43.7 | 85.5 | 10.4 | 37.3 | 7.8 | 1.68 | 7.4 | 1.2 | 6.5 | 1.3 | 3.6 | 0.55 | 3.4 | |
| NCS DC70014 Cert | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | 0.57 | 3.3 | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | 2.0 | 1.3 | 1700 | 3.7 | 48.1 | | | 23.5 | 58.7 | 7.64 | 31.2 | 12.5 | | 15.1 | 3.4 | 21.3 | 4.4 | 13.3 | 2.37 | 16.1 | |
| NCS DC70009 (GBW07241) Cert | | | | | 1.8 | 1.3 | 1701.000 | 3.1 | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | 2.2 | 14.9 | |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | 23 | | | | | | | | 261 | 466 | 45.5 | 148 | 23.9 | 3.56 | 21.9 | 3.7 | 22.7 | 4.9 | 14.4 | 2.36 | 15.0 | |
| OREAS 100a (Fusion) Cert | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | 2.31 | 14.9 | |
| OREAS 101a (Fusion) Meas | | | | 21 | | | | | | | | 804 | 1370 | 127 | 385 | 50.0 | 7.84 | | 5.5 | 31.6 | 6.6 | 18.9 | 2.91 | 17.8 | |
| OREAS 101a (Fusion) Cert | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | 2.90 | 17.5 | |
| OREAS 101b (Fusion) Meas | | | | 20 | | | | | | | | 760 | 1300 | 120 | 364 | 47.4 | 7.52 | | 5.3 | 30.6 | 6.3 | 18.2 | 2.84 | 17.3 | |
| OREAS 101b (Fusion) Cert | | | | 20.9 | | | | | | | | 789 | 1331 | 127 | 378 | 48 | 7.77 | | 5.37 | 32.1 | 6.34 | 18.7 | 2.86 | 17.6 | |
| JR-1 Meas | | | | 3 | < 0.5 | < 0.2 | 4 | | 22.7 | | 0.6 | 19.9 | 47.2 | 5.78 | 22.7 | 5.8 | 0.28 | 5.3 | 1.1 | 6.0 | | 3.8 | 0.69 | 4.7 | |
| JR-1 Cert | | | | 3.25 | 0.031 | 0.028 | 2.86 | | 20.8 | | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | | 3.61 | 0.67 | 4.55 | |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | 1720 | | 2060 | 495 | 3240 | 583 | 1670 | 293 | 1840 | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | 1720 | | 2095 | 470 | 3220 | 560 | 1750 | 270 | 1840 | |
| USZ 25-2006 Meas | | | | | | | | | | | | | | | | | 220 | | | | | | | | |
| USZ 25-2006 Cert | | | | | | | | | | | | | | | | | 211.00 | | | | | | | | |
| BCR-2 Meas | 354 | 33 | 176 | | | | | | | 705 | | | | | | | | | | | | | | | |
| BCR-2 Cert | 346 | 37 | 188 | | | | | | | 683 | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | 20800 | 28500 | 2240 | 6060 | | 85.4 | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7906 (i)

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| USZ 42-2006 Cert | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | | 87.22 | | | | | | | | |
| 92089 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92089 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92094 Orig | | | | 16 | 0.9 | < 0.2 | 6 | < 0.5 | 1.1 | | < 0.4 | 101 | 248 | 29.8 | 115 | 23.1 | 4.79 | 15.6 | 2.3 | 12.2 | 2.2 | 6.0 | 0.79 | 4.6 | |
| 92094 Dup | | | | 17 | 0.8 | < 0.2 | 6 | 0.6 | 1.1 | | < 0.4 | 104 | 251 | 30.2 | 117 | 23.5 | 5.03 | 15.6 | 2.3 | 12.3 | 2.2 | 6.0 | 0.79 | 4.6 | |
| 92099 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92099 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | |
|-----------------------------|--------|--------|--------|---------|--------|----------|--------|--------|
| Analyte Symbol | Lu | Hf | Ta | W | Tl | Pb | Th | U |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| NIST 694 Meas | | | | | | | | |
| NIST 694 Cert | | | | | | | | |
| DNC-1 Meas | | | | | | | | |
| DNC-1 Cert | | | | | | | | |
| GBW 07113 Meas | | | | | | | | |
| GBW 07113 Cert | | | | | | | | |
| LKSD-3 Meas | | | 0.6 | | | | 10.7 | 4.5 |
| LKSD-3 Cert | 0.400 | | 0.700 | | | | 11.4 | 4.60 |
| TDB-1 Meas | | | | | | | 2.7 | |
| TDB-1 Cert | | | | | | | 2.7 | |
| DR-N Meas | | | | | | | | |
| DR-N Cert | | | | | | | | |
| UB-N Meas | | | | | | | | |
| UB-N Cert | | | | | | | | |
| W-2a Meas | 0.32 | 2.5 | 0.5 | < 1 | < 0.1 | 11 | 2.3 | 0.5 |
| W-2a Cert | 0.330 | 2.60 | 0.500 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 |
| SY-4 Meas | | | | | | | | |
| SY-4 Cert | | | | | | | | |
| CTA-AC-1 Meas | 1.10 | | 2.7 | | | | 23.8 | 4.1 |
| CTA-AC-1 Cert | 1.08 | | 2.65 | | | | 21.8 | 4.4 |
| BIR-1a Meas | 0.27 | 0.6 | | | | < 5 | | |
| BIR-1a Cert | 0.3 | 0.60 | | | | 3 | | |
| NCS DC86312 Meas | 11.9 | | | | | | 25.4 | |
| NCS DC86312 Cert | 11.96 | | | | | | 23.6 | |
| ZW-C Meas | | | 80.1 | | | | | |
| ZW-C Cert | | | 82 | | | | | |
| NCS DC70014 Meas | 0.49 | | | | | 27200 | | |
| NCS DC70014 Cert | 0.50 | | | | | 27200.00 | | |
| NCS DC86316 Meas | | 712 | | | | | | |
| NCS DC86316 Cert | | 712 | | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.27 | | | 2200 | | | 28.3 | |
| NCS DC70009 (GBW07241) Cert | 2.4 | | | 2200.00 | | | 28.3 | |
| SGR-1b Meas | | | | | | | | |
| SGR-1b Cert | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.13 | | | | | | 51.8 | 138 |
| OREAS 100a (Fusion) Cert | 2.26 | | | | | | 51.6 | 135 |
| OREAS 101a (Fusion) Meas | 2.47 | | | | | | 35.5 | 421 |
| OREAS 101a (Fusion) Cert | 2.66 | | | | | | 36.6 | 422 |
| OREAS 101b (Fusion) Meas | 2.41 | | | | | | 36.5 | 391 |
| OREAS 101b (Fusion) Cert | 2.58 | | | | | | 37.1 | 396 |
| JR-1 Meas | 0.69 | 4.4 | 1.8 | 2 | 1.6 | 22 | 26.9 | 8.9 |
| JR-1 Cert | 0.71 | 4.51 | 1.86 | 1.59 | 1.56 | 19.3 | 26.7 | 8.88 |
| NCS DC86318 Meas | 248 | | | | | | | |
| NCS DC86318 Cert | 260.0 | | | | | | | |
| USZ 25-2006 Meas | | | | | | | | |
| USZ 25-2006 Cert | | | | | | | | |
| BCR-2 Meas | | | | | | | | |
| BCR-2 Cert | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | 918 | |

| Quality Control | | | | | | | | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Lu | Hf | Ta | W | Tl | Pb | Th | U |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| USZ 42-2006 Cert | | | | | | | 946 | |
| 92089 Orig | | | | | | | | |
| 92089 Dup | | | | | | | | |
| 92094 Orig | 0.65 | 5.6 | 8.8 | 2 | 0.2 | 49 | 13.8 | 1.2 |
| 92094 Dup | 0.66 | 5.6 | 8.7 | 3 | 0.3 | 51 | 15.0 | 1.1 |
| 92099 Orig | | | | | | | | |
| 92099 Dup | | | | | | | | |
| Method Blank Method Blank | < 0.04 | < 0.2 | < 0.1 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 |
| Method Blank Method Blank | | | | | | | | |
| Method Blank Method Blank | | | | | | | | |



Date Submitted: 02-Aug-11
Invoice No.: A11-7906-XRF
Invoice Date: 12-Sep-11
Your Reference: Batch #5

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

23 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT **A11-7906-XRF**

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |
| 92080 | < 0.003 | 0.077 |
| 92081 | 0.003 | 0.099 |
| 92082 | < 0.003 | 0.079 |
| 92083 | < 0.003 | 0.044 |
| 92084 | < 0.003 | 0.227 |
| 92085 | < 0.003 | 0.003 |
| 92086 | < 0.003 | 0.033 |
| 92087 | < 0.003 | 0.026 |
| 92088 | < 0.003 | 0.025 |
| 92089 | < 0.003 | 0.065 |
| 92090 | 0.004 | 0.054 |
| 92091 | < 0.003 | 0.086 |
| 92092 | < 0.003 | 0.035 |
| 92093 | 0.004 | 0.086 |
| 92094 | < 0.003 | 0.023 |
| 92095 | < 0.003 | 0.020 |
| 92096 | < 0.003 | 0.043 |
| 92097 | < 0.003 | 0.007 |
| 92098 | < 0.003 | 0.011 |
| 92099 | < 0.003 | 0.019 |
| 92100 | 0.003 | 0.054 |
| 92101 | < 0.003 | < 0.003 |
| 92102 | 0.003 | 0.027 |

| Quality Control | | |
|-----------------|---------|---------|
| Analyte Symbol | Ta2O5 | Nb2O5 |
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |

| | | |
|------------------------------|---------|---------|
| AC-E Meas | | 0.016 |
| AC-E Cert | | 0.016 |
| OKA-1 Meas | | 0.534 |
| OKA-1 Cert | | 0.529 |
| ZW-C Meas | 0.011 | |
| ZW-C Cert | 0.010 | |
| VS-N Meas | 0.097 | 0.101 |
| VS-N Cert | 0.098 | 0.10 |
| SX58-04 (DH 5804) Meas | | 0.371 |
| SX58-04 (DH 5804) Cert | | 0.369 |
| 92094 Orig | < 0.003 | 0.022 |
| 92094 Dup | < 0.003 | 0.025 |
| Method Blank Method Blank | < 0.003 | < 0.003 |



Date Submitted: 15-Aug-11
Invoice No.: A11-8686
Invoice Date: 02-Dec-11
Your Reference: Batch #7

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

86 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-8686

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A11-8686 Rev2

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|--------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92276 | 14 | 1.83 | 12.81 | 1.77 | 31.34 | 1.784 | 6.15 | 12.70 | 0.05 | 1.42 | 0.339 | 1.70 | 22.83 | 92.91 | 39 | 9 | 82 | 90 | 37 | 40 | 50 | 11300 | 57 | 12 |
| 92278 | < 5 | 0.82 | 1.45 | 0.39 | 7.95 | 0.362 | 13.38 | 31.98 | 0.06 | 0.29 | 0.062 | 5.90 | 36.72 | 98.54 | 25 | 4 | 67 | < 20 | 8 | 30 | 20 | 130 | 7 | 1 |
| 92279 | < 5 | 1.28 | 0.83 | 0.23 | 9.11 | 0.277 | 12.74 | 33.17 | 0.06 | 0.15 | 0.080 | 6.26 | 36.14 | 99.04 | 17 | 5 | 90 | < 20 | 16 | 30 | 40 | 240 | 5 | 1 |
| 92280 | < 5 | 1.02 | 1.74 | 0.43 | 14.49 | 0.518 | 9.14 | 31.62 | 0.05 | 0.34 | 0.323 | 10.05 | 27.96 | 96.66 | 9 | 7 | 140 | 50 | 9 | < 20 | 30 | 670 | 13 | 2 |
| 92281 | < 5 | 0.31 | 1.22 | 0.35 | 10.95 | 0.671 | 13.26 | 28.87 | 0.04 | 0.25 | 0.078 | 2.78 | 38.99 | 97.47 | 12 | 37 | 34 | < 20 | 7 | < 20 | 20 | 330 | 7 | 1 |
| 92282 | < 5 | 0.24 | 1.05 | 0.30 | 9.53 | 0.764 | 14.84 | 28.74 | 0.03 | 0.22 | 0.222 | 1.89 | 39.60 | 97.20 | 19 | 17 | 52 | < 20 | 21 | < 20 | 20 | 490 | 7 | 1 |
| 92284 | < 5 | 1.29 | 1.29 | 0.35 | 7.43 | 0.430 | 9.70 | 37.61 | 0.07 | 0.28 | 0.083 | 15.03 | 26.67 | 98.94 | 19 | 2 | 22 | < 20 | 12 | < 20 | 20 | 250 | 9 | 2 |
| 92285 | < 5 | 0.53 | 4.34 | 0.22 | 34.52 | 2.183 | 7.18 | 14.93 | 0.02 | 0.15 | 0.015 | 0.72 | 32.37 | 96.66 | 10 | 3 | 12 | 20 | 22 | 30 | 20 | 990 | 24 | 5 |
| 92301 | 8 | 8.05 | 7.58 | 0.75 | 11.49 | 2.148 | 10.49 | 29.23 | 0.03 | 0.57 | 0.068 | 0.77 | 28.62 | 91.75 | 94 | 12 | 24 | < 20 | 4 | < 20 | 20 | 1110 | 39 | 8 |
| 92309 | < 5 | 5.05 | 1.87 | 0.28 | 13.87 | 2.356 | 11.28 | 28.31 | 0.02 | 0.17 | 0.021 | 1.33 | 32.85 | 92.36 | 123 | 3 | 25 | < 20 | 3 | < 20 | 30 | 680 | 18 | 5 |
| 92313 | < 5 | 0.22 | 32.89 | 9.05 | 8.91 | 0.639 | 7.60 | 12.78 | 3.21 | 2.84 | 1.149 | 0.10 | 19.91 | 99.09 | 45 | 27 | 116 | 160 | 22 | 70 | 40 | 330 | 17 | 2 |
| 92314 | < 5 | 0.88 | 2.06 | 0.59 | 5.71 | 0.350 | 12.30 | 34.99 | 0.14 | 0.34 | 0.090 | 11.02 | 30.52 | 98.12 | 38 | 5 | 174 | < 20 | 21 | < 20 | 20 | 130 | 15 | 3 |
| 92316 | < 5 | 0.83 | 3.40 | 0.98 | 6.53 | 0.478 | 11.95 | 32.11 | 0.17 | 0.70 | 0.127 | 8.52 | 30.45 | 95.42 | 18 | 9 | 172 | < 20 | 17 | 20 | 30 | 160 | 16 | 3 |
| 92319 | < 5 | 0.95 | 9.38 | 2.70 | 6.31 | 0.303 | 9.39 | 32.41 | 1.33 | 0.47 | 0.086 | 11.69 | 25.08 | 99.14 | 38 | < 1 | 42 | < 20 | 17 | < 20 | 20 | 60 | 15 | 2 |
| 92323 | < 5 | 1.14 | 0.90 | 0.26 | 6.39 | 0.422 | 11.96 | 35.51 | 0.06 | 0.11 | 0.191 | 11.69 | 29.82 | 97.31 | 39 | 7 | 165 | < 20 | 20 | < 20 | 20 | 360 | 15 | 3 |
| 92110 | < 5 | 0.93 | 5.24 | 1.24 | 4.26 | 0.337 | 16.92 | 28.72 | 0.05 | 1.19 | 0.071 | 2.98 | 37.21 | 98.22 | 15 | 15 | 30 | < 20 | 4 | < 20 | 20 | 130 | 7 | 1 |
| 92111 | < 5 | 3.28 | 0.67 | 0.17 | 5.53 | 0.444 | 16.52 | 32.38 | 0.02 | 0.13 | 0.022 | 0.85 | 40.90 | 97.64 | 14 | 3 | 63 | < 20 | 8 | < 20 | 20 | 250 | 8 | 1 |
| 92112 | 19 | 2.31 | 1.26 | 0.36 | 7.53 | 0.244 | 13.79 | 33.46 | 0.06 | 0.28 | 0.178 | 5.31 | 35.95 | 98.43 | 21 | 37 | 71 | < 20 | 14 | < 20 | 20 | 250 | 5 | 1 |
| 92113 | < 5 | 0.70 | 0.80 | 0.21 | 10.49 | 0.522 | 12.16 | 32.11 | 0.05 | 0.14 | 0.087 | 6.69 | 34.14 | 97.40 | 17 | 3 | 49 | < 20 | 14 | < 20 | 20 | 160 | 10 | 2 |
| 92114 | < 5 | 2.35 | 5.25 | 1.39 | 23.64 | 0.473 | 3.52 | 30.52 | 0.15 | 1.22 | 0.626 | 21.02 | 9.60 | 97.40 | 13 | 5 | 111 | 80 | 11 | 20 | 20 | 290 | 20 | 5 |
| 92116 | < 5 | 1.27 | 0.39 | 0.11 | 5.60 | 0.316 | 13.51 | 36.01 | 0.06 | 0.06 | 0.048 | 10.46 | 32.82 | 99.39 | 16 | 2 | 17 | < 20 | 7 | < 20 | 20 | 190 | 5 | 1 |
| 92117 | 29 | 0.22 | 6.66 | 1.83 | 55.37 | 2.699 | 4.27 | 3.69 | 0.02 | 1.29 | 0.033 | 0.26 | 22.56 | 98.67 | 4 | 3 | 49 | 40 | 40 | < 20 | 20 | 2460 | 13 | 7 |
| 92118 | 62 | 0.53 | 18.79 | 5.64 | 12.19 | 0.488 | 12.53 | 16.48 | 0.65 | 3.63 | 1.722 | 0.14 | 25.92 | 98.18 | 60 | 5 | 163 | 100 | 64 | 90 | 60 | 370 | 18 | 3 |
| 92119 | < 5 | 0.30 | 3.44 | 0.97 | 16.74 | 0.832 | 12.97 | 23.52 | 0.03 | 0.78 | 0.073 | 0.65 | 36.02 | 96.02 | 54 | 9 | 112 | 50 | 24 | 40 | 40 | 400 | 20 | 4 |
| 92120 | < 5 | 0.77 | 2.08 | 0.60 | 7.89 | 0.513 | 11.68 | 32.75 | 0.06 | 0.49 | 0.062 | 8.16 | 33.21 | 97.50 | 19 | < 1 | 43 | < 20 | 10 | 20 | 20 | 370 | 7 | 1 |
| 92121 | < 5 | 3.06 | 24.14 | 7.72 | 7.87 | 0.286 | 13.09 | 6.18 | 0.63 | 6.51 | 0.605 | 0.46 | 6.16 | 73.64 | 35 | 4 | 73 | 30 | 9 | < 20 | 20 | 210 | 27 | 4 |
| 92122 | < 5 | 5.09 | 7.89 | 1.64 | 10.93 | 1.952 | 12.83 | 26.73 | 0.03 | 1.29 | 0.169 | 0.79 | 30.94 | 95.19 | 123 | 2 | 31 | 30 | 1 | < 20 | 30 | 700 | 13 | 3 |
| 92303 not a sample | | | | | | | | | | | | | | | | | | | | | | | | |
| 92307 | < 5 | 3.93 | 2.77 | 0.51 | 9.66 | 1.672 | 12.96 | 30.70 | 0.03 | 0.35 | 0.054 | 1.44 | 36.30 | 96.45 | 105 | 4 | 27 | < 20 | 3 | < 20 | 20 | 500 | 13 | 3 |
| 92310 | < 5 | 1.02 | 7.11 | 1.24 | 36.43 | 2.421 | 8.72 | 10.61 | 0.02 | 0.80 | 0.141 | 0.44 | 27.21 | 95.14 | 28 | 9 | 151 | 30 | 12 | 20 | 50 | 2930 | 20 | 10 |
| 92311 | 5 | 2.05 | 4.30 | 1.21 | 23.25 | 3.416 | 9.90 | 20.48 | 0.02 | 0.78 | 0.168 | 0.85 | 30.41 | 94.78 | 29 | 12 | 151 | 30 | 17 | 30 | 70 | 1840 | 29 | 11 |
| 92312 | < 5 | 2.19 | 25.54 | 9.00 | 18.10 | 1.219 | 12.68 | 7.55 | 0.06 | 5.76 | 2.004 | 1.05 | 11.69 | 94.66 | 47 | 12 | 220 | 120 | 27 | 40 | 70 | 2830 | 39 | 10 |
| 92317 | < 5 | 0.50 | 1.20 | 0.38 | 7.96 | 0.434 | 14.29 | 30.75 | 0.17 | 0.10 | 0.094 | 5.30 | 34.80 | 95.48 | 13 | 9 | 199 | 20 | 10 | < 20 | 20 | 130 | 7 | 1 |
| 92318 | 52 | 0.48 | 28.56 | 8.42 | 12.57 | 0.630 | 8.25 | 14.25 | 3.32 | 1.96 | 0.694 | 6.31 | 14.55 | 99.52 | 76 | 4 | 225 | 150 | 34 | 70 | 440 | 240 | 30 | 5 |
| 92115 | < 5 | 5.72 | 3.57 | 0.74 | 14.12 | 0.885 | 12.11 | 28.02 | 0.03 | 0.73 | 0.041 | 0.45 | 32.76 | 93.46 | 26 | 16 | 71 | 220 | 7 | 60 | 20 | 2350 | 20 | 4 |
| 92123 | < 5 | 0.28 | 21.99 | 6.18 | 10.86 | 0.279 | 7.65 | 20.95 | 0.26 | 2.04 | 2.105 | 1.28 | 26.67 | 100.3 | 20 | 9 | 251 | 40 | 24 | 50 | 110 | 140 | 14 | 2 |
| 92277 | < 5 | 3.94 | 3.94 | 1.12 | 10.64 | 0.585 | 10.88 | 32.20 | 0.06 | 0.89 | 0.918 | 5.05 | 30.65 | 96.94 | 32 | 18 | 132 | 40 | 17 | 30 | 60 | 190 | 10 | 2 |
| 92283 | < 5 | 1.45 | 7.00 | 1.97 | 10.27 | 0.243 | 9.12 | 31.24 | 0.08 | 1.65 | 0.129 | 11.95 | 21.52 | 95.18 | 17 | 6 | 53 | < 20 | 23 | < 20 | 60 | 210 | 14 | 2 |
| 92287 | 6 | 1.88 | 1.75 | 0.10 | 15.98 | 1.494 | 12.11 | 25.15 | 0.02 | 0.03 | 0.043 | 0.83 | 37.53 | 95.05 | 22 | 15 | 71 | 20 | 14 | 40 | 20 | 1820 | 40 | 6 |
| 92293 | < 5 | 0.85 | 1.04 | 0.30 | 5.22 | 0.345 | 15.73 | 32.43 | 0.05 | 0.24 | 0.026 | 5.36 | 38.37 | 99.11 | 16 | 13 | 45 | < 20 | 8 | < 20 | 20 | 230 | 7 | 1 |
| 92296 | < 5 | 0.82 | 1.25 | 0.28 | 10.54 | 0.818 | 13.96 | 27.95 | 0.04 | 0.27 | 0.051 | 1.23 | 40.46 | 96.84 | 33 | 20 | 35 | < 20 | 6 | < 20 | 20 | 1070 | 21 | 4 |
| 92300 | 11 | 3.93 | 3.50 | 0.91 | 25.29 | 2.215 | 8.50 | 19.42 | 0.03 | 0.68 | 0.087 | 0.54 | 18.80 | 79.97 | 44 | 3 | 81 | < 20 | 24 | 20 | 70 | 1850 | 30 | 9 |
| 92302 | < 5 | 4.74 | 21.54 | 7.03 | 11.20 | 0.816 | 15.68 | 16.14 | 0.07 | 5.45 | 0.607 | 2.05 | 16.39 | 96.98 | 73 | 7 | 98 | 90 | 15 | 30 | 20 | 1660 | 32 | 6 |
| 92304 | < 5 | 2.72 | 4.43 | 1.20 | 16.14 | 1.651 | 12.24 | 25.71 | 0.04 | 0.96 | 0.055 | 2.40 | 26.64 | 91.46 | 87 | 2 | 28 | < 20 | 8 | 20 | 40 | 390 | 7 | 2 |
| 92305 | 8 | 1.57 | 4.82 | 1.27 | 23.35 | 2.301 | 10.28 | 20.98 | 0.03 | 1.02 | 0.115 | 1.20 | 29.35 | 94.70 | 71 | 2 | 87 | 20 | 6 | 30 | 70 | 1580 | 18 | 7 |
| 92306 | < 5 | 1.81 | 5.99 | 1.46 | 12.95 | 1.028 | 11.43 | 27.26 | 0.05 | 1.17 | 0.138 | 7.04 | 29.30 | 97.82 | 65 | 5 | 76 | 30 | 4 | 20 | 40 | 570 | 16 | 5 |
| 92308 | < 5 | 0.85 | 5.79 | 0.76 | 19.84 | 3.197 | 11.14 | 20.97 | 0.02 | 0.58 | 0.082 | 1.48 | 31.69 | 95.53 | 92 | 2 | 54 | 20 | 8 | 30 | 40 | 470 | 22 | 7 |
| 92320 | < 5 | 0.61 | 0.96 | 0.28 | 8.15 | 0.355 | 12.78 | 33.35 | 0.05 | 0.21 | 0.031 | 7.17 | 35.30 | 98.63 | 22 | 1 | 37 | < 20 | 31 | 40 | 20 | 190 | 6 | 1 |
| 92321 | < 5 | 1.00 | 1.87 | 0.55 | 6.72 | 0.493 | 11.59 | 34.74 | 0.26 | 0.18 | 0.215 | 10.50 | 30.26 | 97.37 | 12 | 27 | 216 | < 20 | 6 | < 20 | 20 | 80 | 16 | 3 |
| 92322 | < 5 | 0.50 | 0.54 | 0.18 | 7.38 | 0.494 | 14.35 | 31.53 | 0.04 | 0.10 | 0.074 | 4.73 | 37.70 | 97.12 | 16 | 4 | 106 | < 20 | 9 | < 20 | 20 | 170 | 8 | 2 |
| 92103 | < 5 | 0.39 | 36.26 | 10.53 | 10.01 | 0.234 | 3.94 | 12.76 | 0.37 | 8.43 | 2.758 | 3.51 | 10.73 | 99.53 | 22 | 2 | 196 | 70 | 28 | 70 | 210 | 80 | 13 | 2 |
| 92104 | < 5 | 0.10 | 55.53 | 16.06 | 4.02 | 0.039 | 2.33 | 3.89 | 3.53 | 8.31 | 0.821 | 0.21 | 3.74 | 98.46 | 7 | 2 | 43 | < 20 | 4 | < 20 | 30 | 80 | 35 | 1 |

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| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92105 | < 5 | 0.04 | 60.88 | 17.32 | 4.47 | 0.025 | 0.93 | 0.68 | 5.30 | 6.58 | 0.929 | 0.31 | 0.85 | 98.28 | 4 | 2 | 34 | < 20 | 2 | < 20 | < 10 | 50 | 37 | 1 |
| 92106 | < 5 | 0.21 | 31.06 | 8.87 | 9.82 | 0.567 | 5.36 | 15.75 | 2.74 | 3.34 | 0.522 | 3.15 | 16.60 | 97.78 | 18 | 1 | 56 | 40 | 31 | 40 | 30 | 90 | 33 | 3 |
| 92107 | < 5 | 0.17 | 26.79 | 10.53 | 17.71 | 0.499 | 9.27 | 10.73 | 1.95 | 2.34 | 3.268 | 0.14 | 15.81 | 99.05 | 46 | 4 | 509 | 80 | 51 | 90 | 120 | 270 | 30 | 4 |
| 92108 | < 5 | 0.17 | 18.14 | 4.88 | 8.79 | 0.240 | 12.00 | 21.23 | 1.25 | 0.92 | 1.151 | 0.56 | 30.91 | 100.1 | 12 | 3 | 139 | 190 | 19 | 70 | 20 | 70 | 8 | < 1 |
| 92109 | < 5 | 0.18 | 47.02 | 14.58 | 15.59 | 0.115 | 2.49 | 3.40 | 5.33 | 2.66 | 3.855 | 1.04 | 2.64 | 98.72 | 17 | 6 | 208 | 30 | 24 | 40 | 20 | 140 | 23 | 2 |
| 92124 | < 5 | 0.14 | 66.36 | 12.62 | 3.74 | 0.012 | 1.81 | 0.93 | 2.43 | 7.14 | 2.576 | 0.29 | 1.39 | 99.30 | 9 | 2 | 89 | 120 | 18 | 50 | 30 | 80 | 25 | 1 |
| 92125 | < 5 | 0.05 | 41.49 | 17.42 | 12.88 | 0.153 | 3.65 | 9.12 | 3.92 | 1.48 | 2.652 | 0.28 | 7.19 | 100.2 | 21 | 2 | 190 | 40 | 42 | 50 | 50 | 110 | 18 | 1 |
| 92286 | < 5 | 2.25 | 0.53 | 0.17 | 28.50 | 1.943 | 9.39 | 18.55 | 0.02 | 0.08 | 0.024 | 0.26 | 34.34 | 93.81 | 13 | 24 | 27 | < 20 | 21 | 20 | 10 | 3610 | 57 | 8 |
| 92288 | 5 | 3.62 | 13.20 | 1.64 | 22.95 | 1.912 | 8.03 | 18.17 | 0.04 | 1.42 | 0.308 | 1.14 | 26.54 | 95.34 | 26 | 15 | 75 | 120 | 20 | 60 | 30 | 1860 | 30 | 5 |
| 92289 | 7 | 0.24 | 1.81 | 0.51 | 18.66 | 1.637 | 11.62 | 21.88 | 0.03 | 0.38 | 0.038 | 0.43 | 37.86 | 94.85 | 30 | 4 | 71 | 50 | 14 | 30 | 20 | 3660 | 57 | 13 |
| 92290 | 10 | 4.71 | 1.94 | 0.56 | 34.96 | 2.281 | 6.74 | 18.04 | 0.03 | 0.44 | 0.208 | 0.87 | 28.03 | 94.09 | 19 | 18 | 59 | 50 | 34 | 60 | 10 | 4710 | 44 | 8 |
| 92291 | 19 | 6.20 | 9.29 | 0.46 | 44.17 | 2.794 | 3.04 | 10.06 | 0.02 | 0.33 | 0.230 | 0.89 | 22.81 | 94.09 | 10 | 42 | 46 | 100 | 51 | 60 | 20 | 11400 | 71 | 12 |
| 92292 | 7 | 0.37 | 9.66 | 2.99 | 42.61 | 2.450 | 6.20 | 7.18 | 0.08 | 2.26 | 0.418 | 0.29 | 24.68 | 98.82 | 10 | 3 | 68 | 40 | 33 | 20 | 30 | 1350 | 17 | 8 |
| 92294 | < 5 | 0.56 | 0.44 | 0.13 | 4.47 | 0.532 | 16.14 | 32.10 | 0.05 | 0.10 | 0.014 | 5.37 | 39.17 | 98.50 | 13 | 2 | 22 | < 20 | 2 | < 20 | 20 | 180 | 7 | 1 |
| 92295 | < 5 | 1.08 | 5.93 | 0.67 | 8.62 | 0.445 | 10.93 | 32.21 | 0.05 | 0.58 | 0.076 | 9.65 | 28.00 | 97.16 | 21 | 3 | 34 | < 20 | 26 | 20 | 30 | 90 | 8 | 2 |
| 92297 | 14 | 7.89 | 2.29 | 0.12 | 42.09 | 2.670 | 4.43 | 15.09 | 0.02 | 0.05 | 0.044 | 0.16 | 26.31 | 93.27 | 10 | 44 | 38 | 40 | 31 | 30 | < 10 | 4200 | 23 | 4 |
| 92298 | < 5 | 2.10 | 2.01 | 0.17 | 21.46 | 1.846 | 10.51 | 21.76 | 0.02 | 0.12 | 0.027 | 0.64 | 36.33 | 94.89 | 18 | 11 | 48 | < 20 | 11 | 20 | 20 | 1670 | 29 | 5 |
| 92299 | < 5 | 1.66 | 6.13 | 0.24 | 26.84 | 1.793 | 9.06 | 18.24 | 0.02 | 0.21 | 0.076 | 0.68 | 32.67 | 95.96 | 21 | 12 | 61 | 40 | 21 | 40 | 20 | 2120 | 16 | 3 |
| 92363 | 10 | 1.05 | 3.66 | 0.99 | 33.94 | 3.034 | 8.97 | 9.86 | 0.02 | 0.78 | 0.150 | 0.39 | 22.19 | 83.98 | 48 | 1 | 111 | 20 | 16 | 40 | 90 | 2320 | 16 | 7 |
| 92364 | 27 | 1.74 | 17.86 | 1.39 | 41.38 | 1.452 | 3.86 | 6.78 | 0.02 | 0.71 | 0.849 | 0.16 | 23.81 | 98.27 | 46 | 12 | 80 | 70 | 35 | 30 | 70 | 1440 | 6 | 3 |
| 92324 | < 5 | 1.85 | 1.93 | 0.43 | 7.14 | 0.421 | 11.03 | 35.75 | 0.04 | 0.37 | 0.165 | 10.57 | 29.07 | 96.92 | 30 | 7 | 74 | < 20 | 7 | < 20 | 20 | 210 | 17 | 4 |
| 92325 | 8 | 2.66 | 2.21 | 0.06 | 36.92 | 3.646 | 7.13 | 12.73 | 0.03 | < 0.01 | 0.063 | 1.85 | 29.96 | 94.60 | 41 | 5 | 54 | < 20 | 15 | < 20 | 10 | 2020 | 27 | 9 |
| 92351 | < 5 | 4.98 | 5.12 | 0.04 | 28.20 | 3.190 | 7.93 | 18.52 | 0.02 | < 0.01 | 0.105 | 1.00 | 29.61 | 93.73 | 63 | 10 | 61 | < 20 | 11 | < 20 | 10 | 1310 | 34 | 9 |
| 92352 | 15 | 0.81 | 7.54 | 0.07 | 46.29 | 3.557 | 5.58 | 4.78 | 0.01 | 0.01 | 0.039 | 0.50 | 28.26 | 96.64 | 33 | 2 | 97 | < 20 | 19 | < 20 | < 10 | 2590 | 27 | 11 |
| 92353 | < 5 | 5.55 | 1.23 | 0.27 | 17.56 | 2.079 | 11.00 | 27.76 | 0.03 | 0.14 | 0.217 | 2.67 | 32.19 | 95.14 | 32 | 6 | 108 | < 20 | 11 | < 20 | 20 | 1110 | 35 | 7 |
| 92354 | < 5 | 5.77 | 1.21 | 0.26 | 18.54 | 2.189 | 10.69 | 26.92 | 0.03 | 0.14 | 0.267 | 2.60 | 31.65 | 94.49 | 33 | 6 | 105 | < 20 | 12 | < 20 | 20 | 1210 | 38 | 7 |
| 92355 | < 5 | 7.68 | 9.25 | 0.04 | 11.71 | 2.287 | 9.05 | 28.98 | 0.01 | 0.02 | 0.213 | 0.95 | 29.44 | 91.96 | 46 | 8 | 47 | < 20 | 5 | < 20 | 20 | 2270 | 74 | 11 |
| 92356 | 25 | 8.03 | 0.93 | 0.06 | 21.05 | 2.511 | 7.96 | 27.53 | 0.03 | < 0.01 | 0.135 | 1.63 | 28.89 | 90.73 | 75 | 6 | 61 | < 20 | 15 | < 20 | 10 | 2710 | 59 | 13 |
| 92357 | < 5 | 0.26 | 13.37 | 0.08 | 6.91 | 0.534 | 13.78 | 26.07 | 0.02 | 0.05 | 0.026 | 1.19 | 37.20 | 99.23 | 7 | 2 | 33 | < 20 | < 1 | < 20 | 10 | 60 | 9 | 2 |
| 92358 | < 5 | 0.85 | 2.57 | 0.18 | 4.23 | 0.488 | 13.88 | 34.23 | 0.05 | 0.14 | 0.015 | 7.98 | 33.68 | 97.44 | 11 | < 1 | 38 | < 20 | 6 | < 20 | 20 | 100 | 13 | 3 |
| 92359 | < 5 | 1.72 | 3.73 | 0.06 | 15.98 | 1.924 | 12.56 | 22.66 | 0.02 | 0.02 | 0.131 | 0.71 | 37.55 | 95.36 | 65 | 5 | 75 | < 20 | 5 | < 20 | 10 | 930 | 47 | 9 |
| 92360 | < 5 | 4.04 | 1.64 | 0.05 | 15.58 | 1.821 | 11.30 | 23.67 | 0.02 | 0.02 | 0.406 | 0.46 | 35.47 | 90.42 | 53 | 12 | 62 | < 20 | 9 | < 20 | 10 | 740 | 53 | 10 |
| 92361 | < 5 | 0.03 | 0.75 | 0.17 | 15.82 | 2.079 | 10.94 | 26.96 | 0.02 | 0.09 | 0.270 | 0.80 | 34.87 | 92.77 | 76 | 9 | 83 | < 20 | 8 | < 20 | < 10 | 2410 | 55 | 10 |
| 92362 | 8 | 1.73 | 9.56 | 0.07 | 36.73 | 2.818 | 6.36 | 11.39 | 0.03 | < 0.01 | 0.148 | 1.25 | 28.99 | 97.33 | 49 | 15 | 51 | < 20 | 15 | < 20 | < 10 | 2210 | 36 | 10 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92276 | 42 | 22 | 1129 | 279 | 80 | 404 | 0.6 | 0.3 | 22 | < 0.5 | < 0.5 | 313 | 1.9 | 2840 | 8220 | 1020 | 3650 | 391 | 79.3 | 154 | 15.0 | 64.8 | 9.9 | 22.3 |
| 92278 | 6 | 4 | 1739 | 155 | 131 | 5 | < 0.5 | < 0.2 | 3 | 0.7 | < 0.5 | 134 | < 0.4 | 336 | 752 | 95.6 | 403 | 86.8 | 26.3 | 68.0 | 9.1 | 41.3 | 6.6 | 14.4 |
| 92279 | 8 | < 2 | 1677 | 176 | 77 | 8 | < 0.5 | < 0.2 | 4 | 0.7 | < 0.5 | 128 | < 0.4 | 225 | 547 | 72.4 | 312 | 68.0 | 21.5 | 56.8 | 8.2 | 41.0 | 6.9 | 16.3 |
| 92280 | 8 | 11 | 3140 | 102 | 174 | < 2 | 0.7 | < 0.2 | 16 | 0.5 | < 0.5 | 242 | < 0.4 | 456 | 1010 | 124 | 470 | 72.2 | 19.9 | 47.8 | 5.8 | 26.0 | 4.0 | 9.3 |
| 92281 | 6 | 5 | 2378 | 54 | 90 | 3 | < 0.5 | < 0.2 | 5 | < 0.5 | < 0.5 | 182 | < 0.4 | 340 | 757 | 93.2 | 336 | 45.8 | 11.4 | 27.4 | 3.2 | 14.3 | 2.2 | 5.3 |
| 92282 | 7 | 3 | 2676 | 58 | 72 | 77 | 0.5 | < 0.2 | 9 | 1.1 | < 0.5 | 201 | < 0.4 | 471 | 807 | 81.6 | 269 | 37.7 | 9.96 | 24.7 | 3.1 | 14.9 | 2.4 | 5.7 |
| 92284 | 11 | 3 | 2520 | 176 | 385 | 8 | 1.3 | < 0.2 | 5 | 1.3 | < 0.5 | 110 | < 0.4 | 434 | 1020 | 131 | 539 | 98.3 | 27.7 | 73.9 | 10.0 | 47.1 | 7.5 | 16.1 |
| 92285 | 17 | < 2 | 919 | 74 | 63 | 4 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 48 | 1.5 | 1080 | 3290 | 421 | 1540 | 157 | 29.3 | 52.9 | 4.8 | 19.5 | 2.9 | 6.4 |
| 92301 | 29 | 15 | 1337 | 254 | 35 | < 2 | < 0.5 | 0.4 | 11 | 0.6 | 0.6 | 471 | 3.9 | 2060 | 5580 | 634 | 2160 | 313 | 77.5 | 166 | 15.6 | 63.8 | 8.8 | 18.8 |
| 92309 | 15 | 5 | 1285 | 222 | 59 | < 2 | < 0.5 | 0.3 | 7 | < 0.5 | < 0.5 | 166 | 1.7 | 1100 | 2390 | 285 | 1190 | 280 | 63.8 | 133 | 12.5 | 50.0 | 7.4 | 17.5 |
| 92313 | 16 | 39 | 739 | 93 | 100 | 16 | < 0.5 | < 0.2 | 8 | 1.2 | < 0.5 | 560 | 0.5 | 304 | 620 | 71.2 | 258 | 41.1 | 10.1 | 23.1 | 3.2 | 17.7 | 3.2 | 8.1 |
| 92314 | 16 | 3 | 1422 | 123 | 500 | < 2 | 1.6 | < 0.2 | 15 | < 0.5 | < 0.5 | 115 | < 0.4 | 682 | 1940 | 234 | 903 | 134 | 33.5 | 74.2 | 8.8 | 38.9 | 5.8 | 13.1 |
| 92316 | 24 | 8 | 1476 | 132 | 307 | 13 | 1.3 | < 0.2 | 8 | 1.5 | < 0.5 | 96 | < 0.4 | 766 | 2030 | 234 | 887 | 124 | 31.6 | 68.9 | 8.2 | 37.7 | 5.9 | 13.8 |
| 92319 | 14 | 2 | 2393 | 237 | 98 | 9 | 0.6 | < 0.2 | 6 | < 0.5 | < 0.5 | 343 | < 0.4 | 435 | 1010 | 130 | 534 | 98.8 | 29.3 | 77.6 | 11.4 | 57.7 | 9.8 | 21.9 |
| 92323 | 15 | < 2 | 1337 | 168 | 439 | < 2 | 1.6 | < 0.2 | 14 | < 0.5 | < 0.5 | 93 | < 0.4 | 755 | 2000 | 249 | 976 | 143 | 34.8 | 82.2 | 9.6 | 43.0 | 6.7 | 15.0 |
| 92110 | < 5 | 28 | 2618 | 74 | 87 | < 2 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 169 | < 0.4 | 161 | 382 | 49.5 | 206 | 39.7 | 11.3 | 29.5 | 4.0 | 18.8 | 3.1 | 6.8 |
| 92111 | 8 | < 2 | 1513 | 70 | 54 | 14 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 53 | < 0.4 | 545 | 1030 | 112 | 382 | 42.3 | 9.76 | 22.6 | 2.5 | 12.6 | 2.1 | 5.5 |
| 92112 | 13 | 3 | 1710 | 151 | 117 | 17 | < 0.5 | < 0.2 | 16 | < 0.5 | < 0.5 | 155 | < 0.4 | 213 | 507 | 67.8 | 293 | 65.7 | 19.5 | 50.5 | 6.9 | 32.6 | 5.5 | 12.5 |
| 92113 | 18 | < 2 | 1446 | 85 | 339 | 39 | 1.1 | < 0.2 | 5 | 0.8 | < 0.5 | 92 | < 0.4 | 763 | 1290 | 132 | 484 | 76.1 | 18.4 | 43.9 | 4.8 | 21.7 | 3.5 | 8.4 |
| 92114 | 27 | 42 | 3282 | 646 | 194 | 47 | 0.7 | < 0.2 | 22 | 3.9 | 0.6 | 233 | 0.7 | 469 | 1300 | 209 | 1150 | 366 | 102 | 248 | 30.1 | 139 | 23.6 | 57.5 |
| 92116 | 9 | < 2 | 4209 | 181 | 109 | 5 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 258 | < 0.4 | 216 | 564 | 79.9 | 355 | 74.3 | 21.9 | 57.8 | 8.3 | 41.4 | 7.1 | 17.0 |
| 92117 | 22 | 14 | 257 | 86 | < 4 | 47 | < 0.5 | 0.3 | 3 | < 0.5 | 0.7 | 344 | 25.7 | 17.8 | 254 | 157 | 1640 | 501 | 92.8 | 148 | 9.6 | 28.3 | 2.9 | 5.0 |
| 92118 | 38 | 52 | 970 | 48 | 55 | 11 | < 0.5 | < 0.2 | 6 | 0.8 | 2.3 | 961 | 1.6 | 877 | 1500 | 164 | 625 | 115 | 29.1 | 66.0 | 5.5 | 17.2 | 2.1 | 4.3 |
| 92119 | 16 | 16 | 1388 | 110 | 161 | 12 | 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 259 | < 0.4 | 1380 | 2620 | 299 | 1190 | 206 | 48.7 | 98.8 | 8.2 | 29.9 | 4.1 | 9.5 |
| 92120 | 7 | 3 | 1715 | 171 | 122 | 5 | 0.5 | < 0.2 | 4 | 1.2 | < 0.5 | 216 | < 0.4 | 331 | 723 | 88.2 | 344 | 62.3 | 18.3 | 49.7 | 7.2 | 38.2 | 6.8 | 16.2 |
| 92121 | 6 | 162 | 1927 | 35 | 2331 | < 2 | < 0.2 | < 0.2 | 88 | 12.1 | 3.9 | 4587 | 2.8 | 350 | 1190 | 126 | 430 | 56.4 | 13.5 | 24.5 | 2.7 | 11.6 | 1.5 | 3.3 |
| 92122 | 10 | 33 | 1365 | 166 | 31 | 2 | < 0.5 | 0.5 | 8 | < 0.5 | 1.3 | 393 | 1.4 | 811 | 1470 | 165 | 648 | 205 | 56.9 | 121 | 11.1 | 40.4 | 5.6 | 12.3 |
| 92303 | not a sample | | | | | | | | | | | | | | | | | | | | | | | |
| 92307 | 13 | 9 | 1408 | 229 | 43 | 3 | < 0.5 | 0.3 | 5 | < 0.5 | < 0.5 | 180 | 1.9 | 824 | 1550 | 182 | 773 | 216 | 59.4 | 135 | 14.7 | 59.5 | 8.5 | 18.1 |
| 92310 | 29 | 21 | 544 | 223 | 51 | < 2 | < 0.5 | 1.8 | 11 | < 0.5 | 0.9 | 957 | < 0.4 | 352 | 1010 | 272 | 2370 | 758 | 152 | 286 | 20.5 | 63.2 | 7.3 | 13.1 |
| 92311 | 36 | 20 | 1132 | 341 | 50 | 4 | < 0.5 | 1.0 | 14 | 0.7 | 0.7 | 908 | 3.0 | 686 | 2600 | 452 | 2770 | 782 | 161 | 312 | 24.5 | 83.8 | 10.7 | 20.9 |
| 92312 | 25 | 148 | 425 | 324 | 95 | 2 | 0.7 | 1.2 | 61 | < 0.5 | 7.0 | 1444 | 8.7 | 1210 | 3020 | 453 | 2160 | 491 | 127 | 259 | 23.8 | 88.5 | 11.3 | 20.8 |
| 92317 | 18 | 2 | 1355 | 375 | 327 | < 2 | 1.2 | < 0.2 | 2 | < 0.5 | < 0.5 | 139 | < 0.4 | 353 | 822 | 102 | 405 | 91.6 | 33.0 | 99.8 | 17.4 | 90.8 | 15.3 | 32.4 |
| 92318 | 9 | 25 | 2167 | 696 | 475 | < 2 | 1.8 | < 0.2 | 12 | < 0.5 | 0.5 | 285 | 1.6 | 1090 | 1970 | 213 | 831 | 201 | 61.8 | 177 | 26.6 | 140 | 25.7 | 63.3 |
| 92115 | 18 | 17 | 2213 | 55 | 58 | 28 | < 0.5 | < 0.2 | 3 | 1.1 | < 0.5 | 548 | 1.7 | 1580 | 2670 | 290 | 1110 | 193 | 46.1 | 90.7 | 6.3 | 18.3 | 2.0 | 4.4 |
| 92123 | 14 | 59 | 1029 | 49 | 565 | < 2 | 1.7 | < 0.2 | 5 | < 0.5 | 3.6 | 1128 | < 0.4 | 241 | 466 | 53.3 | 197 | 31.3 | 8.11 | 20.5 | 2.5 | 11.5 | 1.8 | 4.3 |
| 92277 | 13 | 10 | 2062 | 396 | 140 | 15 | 0.6 | < 0.2 | 27 | < 0.5 | < 0.5 | 272 | < 0.4 | 415 | 925 | 125 | 546 | 106 | 32.6 | 88.8 | 15.1 | 82.6 | 14.8 | 34.5 |
| 92283 | 9 | 24 | 2610 | 120 | 170 | < 2 | 0.6 | < 0.2 | 8 | 0.6 | < 0.5 | 452 | < 0.4 | 400 | 968 | 128 | 524 | 89.5 | 23.5 | 60.1 | 7.3 | 32.9 | 5.1 | 11.7 |
| 92287 | 30 | < 2 | 1334 | 107 | 55 | 31 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 152 | 1.0 | 2890 | 6460 | 632 | 1860 | 142 | 26.4 | 60.2 | 4.6 | 22.7 | 3.7 | 9.2 |
| 92293 | 9 | 2 | 1553 | 108 | 84 | 13 | 0.5 | < 0.2 | 4 | 0.9 | < 0.5 | 238 | < 0.4 | 421 | 903 | 108 | 418 | 72.3 | 19.5 | 50.6 | 6.4 | 29.2 | 4.6 | 10.2 |
| 92296 | 14 | 8 | 1828 | 140 | 58 | 31 | < 0.5 | < 0.2 | 9 | < 0.5 | < 0.5 | 152 | 0.5 | 925 | 2780 | 351 | 1260 | 137 | 31.0 | 69.7 | 7.1 | 32.3 | 5.0 | 11.7 |
| 92300 | 28 | 19 | 782 | 182 | 56 | 2 | < 0.5 | 0.6 | 7 | < 0.5 | 0.8 | 311 | 1.5 | 1190 | 3420 | 451 | 2320 | 686 | 143 | 260 | 17.4 | 50.2 | 5.3 | 9.6 |
| 92302 | 17 | 136 | 921 | 205 | 143 | 2 | 0.6 | 0.5 | 23 | < 0.5 | 6.1 | 1972 | 2.2 | 946 | 2740 | 351 | 1360 | 260 | 65.3 | 148 | 15.1 | 61.0 | 8.4 | 18.6 |
| 92304 | 8 | 26 | 1482 | 239 | 57 | < 2 | < 0.5 | 0.3 | 5 | < 0.5 | 1.1 | 319 | 0.4 | 153 | 419 | 75.5 | 483 | 192 | 48.5 | 117 | 13.3 | 61.4 | 8.6 | 19.5 |
| 92305 | 21 | 25 | 979 | 229 | 63 | 3 | 0.8 | 0.6 | 8 | < 0.5 | 1.1 | 337 | 15.1 | 607 | 1520 | 260 | 1700 | 567 | 109 | 214 | 16.6 | 61.5 | 7.2 | 14.6 |
| 92306 | 17 | 31 | 1788 | 504 | 69 | 3 | < 0.5 | 0.6 | 7 | < 0.5 | 1.3 | 376 | 2.9 | 682 | 1520 | 218 | 1180 | 477 | 125 | 302 | 31.7 | 139 | 18.9 | 40.5 |
| 92308 | 21 | 16 | 1177 | 235 | 71 | < 2 | < 0.5 | 0.4 | 7 | < 0.5 | 0.6 | 213 | 2.8 | 1390 | 2350 | 320 | 1620 | 386 | 80.9 | 166 | 14.2 | 60.3 | 8.2 | 17.7 |
| 92320 | 9 | 2 | 1161 | 109 | 75 | < 2 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 122 | < 0.4 | 269 | 616 | 82.8 | 335 | 64.4 | 17.6 | 47.1 | 6.2 | 31.5 | 4.7 | 10.4 |
| 92321 | 17 | < 2 | 1709 | 212 | 174 | 9 | 0.9 | < 0.2 | 5 | 1.5 | < 0.5 | 86 | < 0.4 | 685 | 1790 | 219 | 847 | 141 | 37.0 | 94.5 | 11.8 | 60.3 | 9.1 | 19.5 |
| 92322 | 7 | < 2 | 813 | 70 | 189 | < 2 | 0.8 | < 0.2 | 3 | < 0.5 | < 0.5 | 160 | < 0.4 | 367 | 936 | 121 | 462 | 70.8 | 17.6 | 41.6 | 4.6 | 21.9 | 3.2 | 6.9 |
| 92103 | < 5 | 78 | 424 | 179 | 280 | < 2 | 1.0 | < 0.2 | 2 | < 0.5 | 1.1 | 877 | < 0.4 | 126 | 264 | 34.5 | 144 | 37.0 | 12.8 | 39.9 | 6.6 | 39.5 | 7.1 | 19.0 |
| 92104 | < 5 | 101 | 218 | 50 | 510 | 8 | 1.7 | < 0.2 | 7 | < 0.5 | < 0.5 | 245 | < 0.4 | 129 | 257 | 29.5 | 100 | 15.2 | 2.75 | 10.3 | 1.6 | 9.4 | 1.9 | 5.9 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92105 | < 5 | 79 | 92 | 71 | 939 | < 2 | 3.0 | < 0.2 | 8 | < 0.5 | < 0.5 | 260 | < 0.4 | 110 | 222 | 25.8 | 92.9 | 16.2 | 2.93 | 13.0 | 2.3 | 14.0 | 2.7 | 8.1 |
| 92106 | 10 | 38 | 1128 | 234 | 32 | 5 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 183 | < 0.4 | 1300 | 2150 | 230 | 786 | 133 | 35.1 | 92.1 | 11.4 | 55.9 | 8.3 | 20.0 |
| 92107 | 6 | 46 | 1014 | 94 | 194 | 5 | 11.1 | < 0.2 | 12 | < 0.5 | 1.0 | 806 | < 0.4 | 802 | 1390 | 157 | 553 | 77.4 | 18.1 | 41.1 | 5.2 | 24.9 | 3.9 | 9.6 |
| 92108 | < 5 | 20 | 540 | 44 | 81 | 4 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 264 | < 0.4 | 93.3 | 181 | 21.6 | 84.3 | 16.3 | 4.32 | 12.4 | 1.9 | 10.2 | 1.7 | 4.7 |
| 92109 | < 5 | 75 | 290 | 38 | 247 | < 2 | 0.7 | < 0.2 | 4 | < 0.5 | 0.7 | 1113 | < 0.4 | 65.6 | 144 | 19.2 | 78.0 | 15.5 | 4.45 | 11.7 | 1.6 | 8.5 | 1.5 | 3.9 |
| 92124 | < 5 | 93 | 87 | 31 | 280 | 3 | 0.9 | < 0.2 | 4 | < 0.5 | 0.8 | 293 | < 0.4 | 71.4 | 156 | 18.4 | 72.4 | 13.3 | 3.01 | 9.0 | 1.2 | 6.8 | 1.2 | 3.5 |
| 92125 | < 5 | 40 | 217 | 26 | 229 | < 2 | 0.7 | < 0.2 | 3 | < 0.5 | 0.8 | 476 | < 0.4 | 40.3 | 82.0 | 10.4 | 41.6 | 8.6 | 2.47 | 6.9 | 1.0 | 5.8 | 1.0 | 2.8 |
| 92286 | 29 | < 2 | 1171 | 177 | 84 | 83 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 223 | 0.7 | 4430 | 8220 | 831 | 2430 | 212 | 40.1 | 88.2 | 9.4 | 39.2 | 6.1 | 13.6 |
| 92288 | 22 | 20 | 829 | 171 | 53 | 1390 | 0.7 | < 0.2 | 70 | < 0.5 | < 0.5 | 258 | 12.5 | 1810 | 3900 | 423 | 1390 | 155 | 31.7 | 69.9 | 7.3 | 33.4 | 5.0 | 11.8 |
| 92289 | 47 | 5 | 971 | 102 | 10 | 21 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 224 | 3.8 | 2360 | 6840 | 929 | 3660 | 545 | 110 | 220 | 15.2 | 48.3 | 4.2 | 6.1 |
| 92290 | 33 | 4 | 949 | 223 | 55 | 393 | 0.9 | 0.2 | 13 | 0.6 | < 0.5 | 169 | 6.0 | 2940 | 5810 | 640 | 2210 | 341 | 70.8 | 142 | 12.7 | 53.0 | 7.2 | 14.6 |
| 92291 | 46 | 4 | 503 | 227 | 83 | 1100 | 1.3 | 0.5 | 183 | 0.6 | < 0.5 | 119 | 5.9 | 4020 | 9720 | 1140 | 3680 | 306 | 54.5 | 116 | 10.8 | 51.2 | 6.7 | 12.9 |
| 92292 | 23 | 34 | 467 | 476 | 26 | 19 | < 0.5 | 0.2 | 4 | < 0.5 | 1.8 | 471 | 7.1 | 77.0 | 558 | 243 | 1900 | 376 | 75.6 | 172 | 22.0 | 116 | 19.2 | 41.4 |
| 92294 | 5 | < 2 | 2244 | 168 | 68 | 4 | < 0.5 | < 0.2 | < 1 | 1.4 | < 0.5 | 182 | < 0.4 | 555 | 889 | 96.7 | 344 | 61.4 | 17.4 | 47.5 | 7.2 | 38.2 | 6.6 | 17.2 |
| 92295 | 11 | 12 | 1916 | 144 | 242 | 3 | 1.0 | < 0.2 | 4 | < 0.5 | < 0.5 | 215 | < 0.4 | 315 | 736 | 101 | 423 | 87.4 | 24.1 | 65.3 | 8.9 | 40.6 | 6.0 | 13.6 |
| 92297 | 17 | < 2 | 978 | 162 | 45 | 211 | < 0.5 | 0.2 | 13 | 0.6 | < 0.5 | 52 | 4.9 | 2610 | 5270 | 529 | 1690 | 198 | 43.5 | 113 | 11.5 | 42.6 | 5.0 | 8.8 |
| 92298 | 18 | 2 | 1377 | 192 | 43 | 6 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 155 | < 0.4 | 1950 | 4120 | 446 | 1420 | 126 | 24.7 | 59.3 | 7.8 | 41.3 | 6.8 | 16.0 |
| 92299 | 15 | 4 | 1007 | 253 | 36 | 90 | < 0.5 | < 0.2 | 6 | < 0.5 | < 0.5 | 194 | 2.6 | 831 | 2010 | 266 | 1010 | 148 | 34.8 | 87.3 | 11.0 | 59.2 | 9.2 | 21.3 |
| 92363 | 20 | 22 | 524 | 86 | 71 | 3 | < 0.5 | 1.0 | 11 | < 0.5 | 0.9 | 271 | 3.4 | 374 | 1070 | 226 | 1640 | 495 | 89.3 | 153 | 9.2 | 26.1 | 2.4 | 4.8 |
| 92364 | 8 | 8 | 218 | 479 | 27 | 8 | < 0.5 | 0.5 | 20 | < 0.5 | 1.3 | 331 | 2.6 | 31.4 | 110 | 42.7 | 471 | 411 | 146 | 386 | 43.7 | 171 | 19.7 | 31.5 |
| 92324 | 17 | 9 | 2461 | 230 | 506 | < 2 | 1.9 | < 0.2 | 16 | 0.5 | < 0.5 | 827 | < 0.4 | 750 | 1960 | 267 | 1060 | 171 | 42.9 | 109 | 13.5 | 61.3 | 9.1 | 20.6 |
| 92325 | 27 | < 2 | 1061 | 307 | 18 | 11 | < 0.5 | 0.5 | 30 | < 0.5 | < 0.5 | 45 | 8.6 | 886 | 2890 | 488 | 2320 | 476 | 115 | 264 | 27.5 | 108 | 12.0 | 22.8 |
| 92351 | 29 | < 2 | 1505 | 213 | 17 | < 2 | 0.9 | 0.5 | 32 | < 0.5 | < 0.5 | 74 | 7.3 | 1540 | 4010 | 576 | 2420 | 480 | 104 | 217 | 18.6 | 67.8 | 7.4 | 14.6 |
| 92352 | 31 | < 2 | 410 | 973 | 24 | 3 | 0.6 | 0.5 | 12 | < 0.5 | < 0.5 | 71 | 15.3 | 877 | 2610 | 467 | 2590 | 801 | 212 | 512 | 60.9 | 282 | 38.6 | 76.6 |
| 92353 | 23 | 3 | 2315 | 273 | 66 | 11 | < 0.5 | < 0.2 | 35 | 0.6 | < 0.5 | 186 | 3.8 | 2190 | 4790 | 535 | 1830 | 254 | 61.5 | 146 | 16.9 | 80.9 | 10.7 | 21.3 |
| 92354 | 24 | 3 | 2218 | 291 | 65 | 10 | < 0.5 | 0.2 | 43 | < 0.5 | < 0.5 | 203 | 3.9 | 2300 | 5110 | 574 | 1930 | 270 | 66.0 | 160 | 18.2 | 85.3 | 11.0 | 22.3 |
| 92355 | 37 | < 2 | 1919 | 468 | 30 | 10 | 0.7 | < 0.2 | 17 | < 0.5 | < 0.5 | 174 | 7.0 | 5300 | 10800 | 1090 | 3140 | 318 | 75.2 | 188 | 22.0 | 117 | 17.3 | 38.5 |
| 92356 | 42 | < 2 | 1841 | 513 | 15 | 55 | < 0.5 | 0.3 | 28 | < 0.5 | < 0.5 | 88 | 14.7 | 3020 | 7520 | 964 | 3490 | 559 | 146 | 359 | 40.2 | 172 | 20.1 | 33.4 |
| 92357 | 5 | < 2 | 751 | 44 | 101 | < 2 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 71 | < 0.4 | 671 | 1180 | 130 | 438 | 53.7 | 12.2 | 27.3 | 2.6 | 11.9 | 1.7 | 4.0 |
| 92358 | 14 | < 2 | 3365 | 172 | 129 | 3 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 51 | < 0.4 | 608 | 1620 | 216 | 862 | 141 | 35.7 | 84.8 | 10.1 | 50.3 | 7.4 | 16.0 |
| 92359 | 30 | < 2 | 1929 | 364 | 30 | 11 | < 0.5 | < 0.2 | 13 | < 0.5 | < 0.5 | 160 | 2.2 | 3330 | 6280 | 694 | 2440 | 342 | 81.2 | 191 | 22.1 | 108 | 14.4 | 33.2 |
| 92360 | 35 | < 2 | 2195 | 263 | 15 | 2 | < 0.5 | 0.3 | 41 | 0.7 | < 0.5 | 206 | 2.9 | 3810 | 7030 | 775 | 2730 | 431 | 105 | 240 | 23.0 | 91.6 | 10.7 | 18.9 |
| 92361 | 35 | < 2 | 1848 | 597 | 37 | 8 | < 0.5 | 0.3 | 29 | 0.5 | < 0.5 | 253 | 8.1 | 3600 | 7320 | 838 | 2920 | 463 | 124 | 285 | 38.4 | 161 | 21.6 | 40.3 |
| 92362 | 33 | < 2 | 930 | 537 | 14 | 11 | < 0.5 | 0.5 | 38 | < 0.5 | < 0.5 | 57 | 9.9 | 1660 | 4290 | 646 | 2980 | 653 | 157 | 330 | 39.3 | 156 | 19.8 | 34.8 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight | Zn |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|-----------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | | 0.01 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none | FUS-Na2O2 |
| 92276 | 2.59 | 13.4 | 1.80 | 1.9 | 0.5 | 16 | 0.6 | 128 | 1480 | 1.3 | < 0.003 | 0.166 | 1170 | 1.26 |
| 92278 | 1.73 | 8.7 | 1.14 | 1.8 | 24.6 | 3 | 0.1 | 104 | 137 | 48.4 | 0.006 | 0.151 | 1850 | |
| 92279 | 2.12 | 11.3 | 1.51 | 1.5 | 22.5 | 3 | < 0.1 | 107 | 233 | 40.6 | 0.009 | 0.239 | 815 | |
| 92280 | 1.10 | 5.7 | 0.76 | 3.2 | 244 | 7 | 0.2 | 88 | 80.9 | 374 | 0.046 | 0.387 | 1470 | |
| 92281 | 0.60 | 3.2 | 0.43 | 1.7 | 81.1 | 3 | 0.1 | 43 | 61.1 | 175 | 0.022 | 0.157 | 1600 | |
| 92282 | 0.71 | 4.0 | 0.58 | 1.3 | 65.4 | 4 | 0.3 | 46 | 93.6 | 141 | 0.016 | 0.198 | 643 | |
| 92284 | 1.83 | 9.2 | 1.22 | 4.7 | 144 | 4 | 0.2 | 385 | 189 | 364 | 0.033 | 0.279 | 1110 | |
| 92285 | 0.76 | 4.3 | 0.55 | 1.1 | 1.0 | 2 | < 0.1 | 78 | 347 | 1.3 | < 0.003 | 0.019 | 1980 | |
| 92301 | 1.95 | 10.0 | 1.21 | 1.2 | 1.5 | 2 | 0.4 | 342 | 1010 | 1.8 | < 0.003 | 0.014 | 2150 | |
| 92309 | 1.87 | 10.0 | 1.29 | 1.5 | 6.0 | 2 | 0.2 | 193 | 964 | 4.4 | < 0.003 | 0.032 | 1990 | |
| 92313 | 1.10 | 6.2 | 0.84 | 2.8 | 0.9 | 7 | 0.8 | 37 | 36.0 | 0.4 | < 0.003 | 0.028 | 1850 | |
| 92314 | 1.42 | 7.5 | 0.98 | 4.8 | 179 | 7 | 0.2 | 114 | 1050 | 190 | 0.040 | 0.832 | 1750 | |
| 92316 | 1.55 | 8.1 | 1.12 | 2.9 | 50.6 | 8 | 0.8 | 254 | 446 | 48.9 | 0.011 | 1.098 | 947 | |
| 92319 | 2.63 | 13.5 | 1.81 | 2.0 | 128 | 3 | 0.1 | 163 | 84.3 | 236 | 0.034 | 0.567 | 1770 | |
| 92323 | 1.62 | 8.0 | 1.07 | 5.1 | 149 | 6 | < 0.1 | 75 | 941 | 175 | 0.039 | 0.517 | 595 | |
| 92110 | 0.78 | 4.1 | 0.54 | 1.3 | 13.8 | 2 | 0.2 | 37 | 50.9 | 29.0 | 0.006 | 0.078 | 403 | |
| 92111 | 0.69 | 3.8 | 0.48 | 0.8 | 11.2 | 1 | 0.1 | 45 | 54.2 | 10.1 | 0.003 | 0.027 | 783 | |
| 92112 | 1.56 | 8.0 | 1.07 | 1.7 | 57.1 | 2 | 0.2 | 65 | 90.9 | 97.9 | 0.013 | 0.102 | 1840 | |
| 92113 | 0.96 | 5.2 | 0.71 | 4.2 | 82.3 | 3 | 0.4 | 224 | 58.4 | 120 | 0.019 | 0.141 | 922 | |
| 92114 | 7.31 | 41.0 | 5.39 | 3.3 | 147 | 14 | 1.6 | 269 | 472 | 167 | 0.025 | 0.391 | 938 | |
| 92116 | 2.08 | 10.0 | 1.27 | 1.6 | 19.9 | 2 | 0.2 | 30 | 365 | 32.7 | 0.007 | 0.396 | 715 | |
| 92117 | 0.58 | 3.0 | 0.35 | 0.4 | 0.6 | < 1 | 0.2 | 1560 | 786 | 0.7 | < 0.003 | 0.010 | 980 | |
| 92118 | 0.55 | 3.5 | 0.53 | 2.1 | 1.7 | 14 | 0.4 | 58 | 321 | 0.7 | 0.036 | 0.799 | 803 | |
| 92119 | 1.19 | 7.6 | 1.10 | 2.5 | 0.7 | 2 | 0.2 | 27 | 360 | 1.8 | 0.003 | 0.021 | 423 | |
| 92120 | 1.99 | 11.3 | 1.55 | 2.3 | 77.5 | 6 | 0.1 | 55 | 201 | 207 | 0.021 | 0.352 | 430 | |
| 92121 | 0.37 | 2.1 | 0.27 | 53.6 | 3620 | 26 | 1.0 | 1690 | 4420 | 5580 | 0.754 | 16.09 | 1880 | |
| 92122 | 1.29 | 7.0 | 0.86 | 1.3 | 7.1 | 1 | 0.6 | 196 | 558 | 7.1 | < 0.003 | 0.024 | 2160 | |
| 92303 not a sample | | | | | | | | | | | | | 2160 | |
| 92307 | 1.99 | 10.6 | 1.38 | 1.2 | 3.0 | 2 | 0.2 | 152 | 627 | 3.1 | 0.003 | 0.060 | 1950 | |
| 92310 | 1.29 | 7.0 | 0.73 | 1.5 | 1.6 | 3 | 0.4 | 510 | 3630 | 1.5 | 0.003 | 0.048 | 832 | |
| 92311 | 2.16 | 11.2 | 1.23 | 1.8 | 0.8 | 4 | 0.5 | 844 | 2920 | 0.9 | < 0.003 | 0.041 | 1550 | |
| 92312 | 2.09 | 10.6 | 1.20 | 4.1 | 0.5 | 18 | 2.2 | 567 | 1590 | 0.5 | < 0.003 | 0.250 | 2050 | |
| 92317 | 3.64 | 17.4 | 2.20 | 3.6 | 8.4 | 5 | 0.3 | 21 | 312 | 13.4 | 0.005 | 0.250 | 1300 | |
| 92318 | 7.82 | 43.0 | 5.88 | 8.7 | 1.2 | 10 | 0.1 | 23 | 256 | 1.9 | < 0.003 | 0.027 | 344 | |
| 92115 | 0.55 | 4.1 | 0.66 | 0.9 | 0.5 | 1 | 0.4 | 673 | 446 | 1.3 | < 0.003 | 0.008 | 1560 | |
| 92123 | 0.52 | 2.9 | 0.40 | 7.9 | 11.2 | < 1 | 0.4 | 24 | 33.2 | 5.5 | 0.003 | 0.040 | 604 | |
| 92277 | 4.35 | 24.3 | 3.32 | 2.0 | 8.9 | 12 | 0.5 | 25 | 282 | 2.6 | 0.003 | 0.097 | 1210 | |
| 92283 | 1.29 | 6.7 | 0.86 | 2.5 | 110 | 11 | 0.3 | 117 | 38.5 | 156 | 0.021 | 0.345 | 1460 | |
| 92287 | 1.22 | 6.6 | 0.86 | 1.1 | 0.6 | 2 | 0.1 | 82 | 308 | 0.9 | < 0.003 | 0.094 | 843 | |
| 92293 | 1.12 | 5.7 | 0.75 | 1.6 | 55.1 | 4 | 0.5 | 44 | 215 | 103 | 0.016 | 0.310 | 1120 | |
| 92296 | 1.42 | 7.5 | 0.96 | 1.0 | 2.5 | 3 | 0.2 | 68 | 501 | 3.6 | < 0.003 | 0.124 | 939 | |
| 92300 | 1.15 | 6.1 | 0.74 | 1.5 | 0.3 | 2 | 0.4 | 419 | 3050 | 0.2 | < 0.003 | 0.023 | 2100 | |
| 92302 | 1.91 | 9.7 | 1.14 | 3.3 | 17.1 | 4 | 2.6 | 279 | 809 | 15.0 | 0.004 | 0.144 | 632 | |
| 92304 | 2.19 | 11.6 | 1.47 | 1.5 | 12.1 | 3 | 0.5 | 77 | 621 | 12.2 | 0.003 | 0.073 | 802 | |
| 92305 | 1.73 | 10.6 | 1.37 | 1.5 | 2.4 | 2 | 0.7 | 906 | 1190 | 1.7 | 0.003 | 0.038 | 1650 | |
| 92306 | 4.73 | 26.2 | 3.40 | 2.3 | 1.0 | 13 | 0.7 | 212 | 1970 | 1.8 | 0.004 | 0.407 | 2120 | |
| 92308 | 2.04 | 11.5 | 1.38 | 1.7 | 4.1 | 2 | 0.4 | 322 | 1300 | 5.2 | < 0.003 | 0.037 | 2710 | |
| 92320 | 1.19 | 6.3 | 0.83 | 1.4 | 38.4 | 2 | < 0.1 | 315 | 172 | 153 | 0.019 | 0.183 | 1760 | |
| 92321 | 2.24 | 11.3 | 1.43 | 1.5 | 101 | 5 | 0.3 | 69 | 238 | 101 | 0.027 | 0.757 | 1430 | |
| 92322 | 0.79 | 4.5 | 0.61 | 1.9 | 20.2 | 3 | < 0.1 | 33 | 447 | 65.6 | 0.013 | 0.293 | 1980 | |
| 92103 | 2.49 | 13.5 | 1.84 | 5.6 | 3.6 | 9 | 0.2 | 15 | 107 | 5.8 | < 0.003 | 0.017 | 661 | |

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| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight | Zn |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|-----------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | | 0.01 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none | FUS-Na2O2 |
| 92104 | 1.00 | 7.2 | 1.17 | 10.1 | 11.2 | 5 | 0.1 | 15 | 29.7 | 4.2 | < 0.003 | 0.022 | 1290 | |
| 92105 | 1.24 | 8.5 | 1.36 | 18.7 | 13.4 | 5 | < 0.1 | 10 | 22.7 | 3.7 | < 0.003 | 0.032 | 1310 | |
| 92106 | 2.48 | 14.8 | 2.08 | 2.8 | 5.2 | 3 | < 0.1 | 14 | 234 | 5.7 | < 0.003 | 0.019 | 153 | |
| 92107 | 1.19 | 0.80 | 0.80 | 5.1 | 3.0 | 12 | < 0.1 | 16 | 97.8 | 1.8 | < 0.003 | 0.040 | 1240 | |
| 92108 | 0.63 | 3.8 | 0.55 | 1.8 | 3.8 | 6 | < 0.1 | 10 | 33.3 | 3.4 | < 0.003 | 0.021 | 548 | |
| 92109 | 0.52 | 3.2 | 0.46 | 6.1 | 4.7 | 14 | < 0.1 | 7 | 7.3 | 0.9 | < 0.003 | 0.015 | 549 | |
| 92124 | 0.51 | 3.6 | 0.60 | 5.5 | 5.5 | 16 | 0.2 | 9 | 12.2 | 0.9 | < 0.003 | 0.014 | 904 | |
| 92125 | 0.35 | 2.2 | 0.35 | 4.9 | 3.4 | 1 | < 0.1 | 6 | 5.5 | 0.6 | < 0.003 | 0.014 | 539 | |
| 92286 | 1.51 | 6.9 | 0.81 | 1.2 | < 0.1 | 2 | 0.1 | 51 | 473 | 0.2 | 0.003 | 0.011 | 880 | |
| 92288 | 1.44 | 8.0 | 1.01 | 1.2 | < 0.1 | 7 | 0.8 | 416 | 321 | 0.9 | < 0.003 | 0.227 | 1800 | |
| 92289 | 0.57 | 3.4 | 0.41 | 0.5 | < 0.1 | 1 | 0.2 | 221 | 1200 | 1.4 | < 0.003 | 0.008 | 1250 | |
| 92290 | 1.64 | 8.2 | 0.97 | 1.2 | 0.7 | 5 | 0.3 | 145 | 568 | 0.4 | 0.003 | 0.114 | 1200 | |
| 92291 | 1.37 | 6.2 | 0.72 | 2.1 | 1.3 | 4 | 0.3 | 47 | 896 | 0.7 | < 0.003 | 0.114 | 1440 | 1.25 |
| 92292 | 4.02 | 18.1 | 2.12 | 1.2 | < 0.1 | 3 | 0.3 | 194 | 506 | 1.9 | < 0.003 | 0.018 | 1470 | |
| 92294 | 2.11 | 11.4 | 1.46 | 1.2 | 21.2 | 3 | < 0.1 | 56 | 308 | 76.3 | 0.014 | 0.308 | 2020 | |
| 92295 | 1.52 | 8.2 | 1.06 | 3.0 | 73.1 | 6 | 0.1 | 192 | 134 | 191 | 0.024 | 0.297 | 1420 | |
| 92297 | 0.85 | 4.4 | 0.59 | 1.1 | 0.8 | 3 | 0.2 | 234 | 517 | 0.8 | 0.003 | 0.077 | 1460 | |
| 92298 | 1.87 | 9.6 | 1.16 | 1.0 | 0.1 | 2 | 0.1 | 28 | 367 | 0.3 | < 0.003 | 0.015 | 2090 | |
| 92299 | 2.26 | 10.8 | 1.25 | 1.0 | < 0.1 | 2 | 0.1 | 77 | 337 | 0.3 | < 0.003 | 0.038 | 684 | |
| 92363 | 0.59 | 3.8 | 0.53 | 1.4 | 0.4 | 3 | 0.5 | 559 | 2020 | 0.2 | < 0.003 | 0.035 | 1340 | |
| 92364 | 2.79 | 13.4 | 1.50 | 2.3 | < 0.1 | 10 | 0.2 | 540 | 1850 | 0.7 | 0.003 | 0.180 | 1300 | |
| 92324 | 2.34 | 12.9 | 1.89 | 5.5 | 281 | 3 | 0.1 | 73 | 1360 | 337 | 0.086 | 0.484 | 1840 | |
| 92325 | 2.31 | 13.6 | 1.75 | 1.1 | 1.1 | 2 | 0.2 | 838 | 1010 | 0.7 | < 0.003 | 0.027 | 1500 | |
| 92351 | 1.69 | 10.6 | 1.36 | 0.8 | 0.5 | 11 | < 0.1 | 549 | 964 | 0.2 | < 0.003 | 0.162 | 1130 | |
| 92352 | 8.20 | 40.4 | 4.64 | 2.3 | < 0.1 | 5 | 0.3 | 1550 | 1350 | 0.5 | < 0.003 | 0.016 | 1760 | |
| 92353 | 2.48 | 13.7 | 1.85 | 1.4 | 2.8 | 4 | 0.2 | 244 | 786 | 1.4 | 0.003 | 0.101 | 1200 | |
| 92354 | 2.54 | 14.3 | 1.86 | 1.4 | 3.0 | 4 | 0.2 | 263 | 885 | 1.4 | < 0.003 | 0.114 | 1750 | |
| 92355 | 4.42 | 22.4 | 2.74 | 1.2 | < 0.1 | 4 | < 0.1 | 226 | 613 | 0.1 | < 0.003 | 0.047 | 1260 | |
| 92356 | 3.57 | 19.9 | 2.58 | 1.4 | < 0.1 | 4 | 0.2 | 857 | 1110 | < 0.1 | < 0.003 | 0.033 | 1390 | |
| 92357 | 0.45 | 2.7 | 0.38 | 0.8 | 1.4 | 2 | < 0.1 | 18 | 25.5 | 21.1 | 0.005 | 0.094 | 870 | |
| 92358 | 1.81 | 9.7 | 1.22 | 1.2 | 38.9 | 5 | < 0.1 | 48 | 436 | 25.7 | 0.010 | 0.765 | 1260 | |
| 92359 | 3.01 | 15.8 | 2.03 | 1.0 | < 0.1 | 3 | < 0.1 | 122 | 602 | 0.2 | 0.003 | 0.033 | 1570 | |
| 92360 | 1.96 | 11.1 | 1.41 | 0.8 | 0.2 | 13 | < 0.1 | 76 | 689 | 0.1 | < 0.003 | 0.139 | 1660 | |
| 92361 | 4.34 | 22.2 | 2.81 | 0.9 | 0.4 | 5 | 0.4 | 579 | 1080 | 0.5 | < 0.003 | 0.052 | 1910 | |
| 92362 | 3.43 | 18.4 | 2.40 | 0.7 | < 0.1 | 4 | 0.3 | 1000 | 1570 | 0.2 | < 0.003 | 0.030 | 1680 | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|--------|------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | 11.79 | 1.94 | 0.76 | 0.012 | 0.36 | 44.39 | 0.89 | 0.56 | 0.120 | 30.20 | | | | | 1683 | | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | |
| DNC-1 Meas | | | 47.01 | 18.57 | 9.63 | 0.146 | 10.03 | 11.12 | 1.92 | 0.23 | 0.485 | 0.07 | | | 31 | | 155 | 280 | 58 | 250 | 110 | 60 | | | |
| DNC-1 Cert | | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | 270.000 | 57.0 | 247.000 | 100.0 | 70.0 | | | |
| GBW 07113 Meas | | 0.13 | 71.46 | 13.00 | 3.24 | 0.143 | 0.14 | 0.56 | 2.46 | 5.37 | 0.283 | 0.05 | | | 5 | 4 | < 5 | | | | | | | | |
| GBW 07113 Cert | | 0.130 | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | | |
| SCO-1 Meas | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | |
| CCU-1C Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCU-1C Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | 70 | 30 | 50 | 40 | 150 | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | 152 | | | |
| TDB-1 Meas | | | | | | | | | | | | | | | | | | 230 | | 80 | 330 | 160 | | | |
| TDB-1 Cert | | | | | | | | | | | | | | | | | | 251 | | 92 | 323 | 155 | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | 52.41 | 15.52 | 10.43 | 0.166 | 6.22 | 10.72 | 2.22 | 0.62 | 1.076 | 0.13 | | | 35 | < 1 | 272 | 90 | 41 | 60 | 110 | 80 | 17 | 2 | |
| W-2a Cert | | 0.0205 | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | 110 | 80.0 | 17.0 | 1.00 | |
| SY-4 Meas | | | 49.77 | 20.43 | 6.35 | 0.107 | 0.51 | 7.94 | 6.93 | 1.65 | 0.287 | 0.12 | | | 1 | 3 | 6 | | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| BIR-1a Meas | | | 47.94 | 15.62 | 10.96 | 0.171 | 9.50 | 13.12 | 1.82 | 0.02 | 0.964 | 0.02 | | | 43 | < 1 | 334 | 370 | 53 | 170 | 140 | 70 | 15 | | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | | | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | | 94 |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | | 99 |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | | 25 | 70 | 2700 | 7390 | 25 | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | | 30 | < 20 | | | 16 | 11 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | | 30 | 2.8 | | | 16.5 | 11.2 |
| SGR-1b Meas | | 0.20 | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | | 17 | | 180 | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | | 18.1 | | 169 | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | 46 | | 440 | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | 48.8 | | 434 | | | |
| OREAS 101b (Fusion) Meas | | | | | | | | | | | | | | | | | | | 46 | | 400 | | | |
| OREAS 101b (Fusion) Cert | | | | | | | | | | | | | | | | | | | 47 | | 416 | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | < 1 | < 20 | < 10 | 30 | 16 | 3 |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | 0.83 | 1.67 | 2.68 | 30.6 | 16.1 | 1.88 |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1050 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1250 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | |
| BCR-2 Meas | | | 54.18 | 13.53 | 13.17 | | 3.51 | 6.88 | 3.11 | 1.81 | 2.285 | 0.35 | | | 33 | | 432 | | | | | | | |
| BCR-2 Cert | | | 54.1 | 13.5 | 13.8 | | 3.59 | 7.12 | 3.16 | 1.79 | 2.26 | 0.35 | | | 33 | | 416 | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 254 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 244 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 226 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 92309 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92309 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92323 Orig | | 1.14 | 0.90 | 0.26 | 6.44 | 0.424 | 12.01 | 35.78 | 0.06 | 0.11 | 0.192 | 11.72 | 29.82 | 97.72 | 39 | 7 | 170 | < 20 | 20 | < 20 | 20 | 370 | 16 | 4 |
| 92323 Dup | | 1.14 | 0.89 | 0.26 | 6.34 | 0.419 | 11.91 | 35.24 | 0.06 | 0.12 | 0.190 | 11.66 | 29.82 | 96.91 | 39 | 8 | 161 | < 20 | 20 | < 20 | 20 | 340 | 15 | 3 |
| 92114 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92114 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92311 Orig | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92311 Dup | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92317 Orig | | 0.50 | 1.21 | 0.39 | 8.00 | 0.435 | 14.41 | 30.85 | 0.17 | 0.11 | 0.095 | 5.33 | 34.80 | 95.80 | 13 | 9 | 201 | 20 | 10 | < 20 | 20 | 130 | 7 | 1 |
| 92317 Dup | | 0.49 | 1.18 | 0.37 | 7.92 | 0.433 | 14.17 | 30.65 | 0.17 | 0.10 | 0.092 | 5.27 | 34.80 | 95.15 | 12 | 10 | 198 | 30 | 10 | < 20 | 20 | 130 | 7 | 1 |
| 92302 Orig | | 4.59 | 21.44 | 6.97 | 11.16 | 0.814 | 15.64 | 16.09 | 0.07 | 5.42 | 0.602 | 2.03 | 16.39 | 96.63 | 73 | 6 | 98 | 90 | 15 | 30 | 20 | 1670 | 32 | 6 |
| 92302 Dup | | 4.90 | 21.65 | 7.09 | 11.24 | 0.818 | 15.72 | 16.20 | 0.07 | 5.48 | 0.611 | 2.07 | 16.39 | 97.33 | 73 | 8 | 99 | 90 | 15 | 30 | 20 | 1650 | 32 | 6 |
| 92306 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92306 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92322 Orig | < 5 | 0.50 | 0.54 | 0.18 | 7.38 | 0.494 | 14.35 | 31.53 | 0.04 | 0.10 | 0.074 | 4.73 | 37.70 | 97.12 | 16 | 4 | 106 | < 20 | 9 | < 20 | 20 | 170 | 8 | 2 |
| 92322 Split | < 5 | 0.51 | 0.56 | 0.18 | 7.65 | 0.514 | 14.87 | 32.22 | 0.03 | 0.10 | 0.076 | 4.98 | 37.66 | 98.85 | 17 | 4 | 108 | < 20 | 9 | < 20 | 10 | 250 | 5 | < 1 |
| 92108 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92108 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92124 Orig | | 0.14 | 65.92 | 12.53 | 3.70 | 0.012 | 1.80 | 0.92 | 2.38 | 6.99 | 2.560 | 0.29 | 1.39 | 98.50 | 9 | 2 | 88 | 120 | 18 | 50 | 30 | 80 | 25 | 1 |
| 92124 Dup | | 0.14 | 66.80 | 12.72 | 3.77 | 0.012 | 1.81 | 0.94 | 2.48 | 7.29 | 2.593 | 0.29 | 1.39 | 100.1 | 9 | 2 | 90 | 120 | 18 | 50 | 30 | 70 | 25 | 1 |
| 92294 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92294 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92351 Orig | | 5.01 | 5.17 | 0.04 | 28.39 | 3.211 | 8.01 | 18.66 | 0.02 | < 0.01 | 0.105 | 1.01 | 29.61 | 94.23 | 63 | 10 | 62 | < 20 | 11 | < 20 | 10 | 1300 | 33 | 9 |
| 92351 Dup | | 4.96 | 5.07 | 0.04 | 28.01 | 3.168 | 7.85 | 18.38 | 0.02 | < 0.01 | 0.104 | 0.99 | 29.61 | 93.24 | 63 | 10 | 60 | < 20 | 11 | < 20 | 10 | 1320 | 34 | 9 |
| 92357 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92357 Dup | 11 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| 92362 Orig | | 1.74 | 9.58 | 0.07 | 36.91 | 2.832 | 6.40 | 11.45 | 0.03 | < 0.01 | 0.149 | 1.25 | 28.99 | 97.66 | 49 | 14 | 50 | < 20 | 16 | < 20 | < 10 | 2240 | 37 | 10 | |
| 92362 Dup | | 1.73 | 9.54 | 0.07 | 36.55 | 2.803 | 6.32 | 11.32 | 0.03 | < 0.01 | 0.147 | 1.24 | 28.99 | 97.01 | 49 | 16 | 52 | < 20 | 15 | < 20 | < 10 | 2180 | 36 | 9 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | 143 | 16 | 34 | | | | | 0.8 | | 105 | | | | | 5.3 | | 0.60 | | | | | | |
| DNC-1 Cert | | | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | | | | 5.20 | | 0.59 | | | | | | |
| GBW 07113 Meas | | | 41 | 45 | 409 | | | | | | | 501 | | | | | | | | | | | | | |
| GBW 07113 Cert | | | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCU-1C Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCU-1C Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | 27 | 76 | | | | < 2 | 2.9 | | 2 | 1.5 | 2.5 | | | 48.6 | 89.3 | | 42.9 | 7.9 | 1.42 | | 0.9 | 5.0 | | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | 1.00 | 4.90 | | | |
| TDB-1 Meas | | 21 | | | | | | | | | | | | 17.6 | 40.6 | | 23.7 | | 1.97 | | | | | | |
| TDB-1 Cert | | 23 | | | | | | | | | | | | 17 | 41 | | 23 | | 2.1 | | | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | < 5 | 20 | 195 | 19 | 88 | < 2 | < 0.5 | | | 1.4 | 0.9 | 173 | < 0.4 | | 24.6 | | 12.8 | 3.4 | 1.09 | | 0.7 | 3.9 | 0.8 | 2.4 | |
| W-2a Cert | 1.20 | 21.0 | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 | |
| SY-4 Meas | | | 1201 | 117 | 542 | | | | | | | | | | 343 | | | | | | | | | | |
| SY-4 Cert | | | 1191 | 119 | 517 | | | | | | | | | | 340 | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2250 | 3350 | | 1160 | 171 | 46.4 | 130 | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | | | | | |
| BIR-1a Meas | < 5 | | 108 | 15 | 13 | | | | | 0.9 | | 7 | | | | | 2.4 | 1.1 | 0.53 | 1.9 | | | | | |
| BIR-1a Cert | 0.44 | | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | | | 2.5 | 1.1 | 0.55 | 2.0 | | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2300 | 175 | | 1550 | | 223 | 34.1 | 183 | 35.5 | 95.8 | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | 271 | 16.8 | | | 180 | | | 80.0 | 45.2 | 87.6 | 10.4 | 38.6 | 8.0 | 1.68 | 7.4 | 1.2 | 6.6 | 1.3 | 3.6 | |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | 70 | 522 | | | | 0.8 | 1.3 | 1700 | 3.8 | 46.3 | | | 23.2 | 57.2 | 7.80 | 31.0 | 12.4 | 0.11 | 15.1 | 3.4 | 21.9 | 4.6 | 13.7 | |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | 1.8 | 1.3 | 1701.000 | 3.1 | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | 23 | | | | | | | 260 | 453 | 46.6 | 147 | 23.9 | 3.57 | | 3.7 | 22.7 | 5.0 | 14.5 | |
| OREAS 100a (Fusion) Cert | | | | | | | 24.1 | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | | 3.80 | 23.2 | 4.81 | 14.9 | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| OREAS 101a (Fusion) Meas | | | | | | 20 | | | | | | | | 787 | 1350 | 131 | 387 | 50.0 | 7.87 | | 5.5 | 31.7 | 6.6 | 18.9 | |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | |
| OREAS 101b (Fusion) Meas | | | | | | 18 | | | | | | | | 802 | 1330 | 123 | 370 | 47.9 | 7.64 | | 5.4 | 30.8 | 6.4 | 18.5 | |
| OREAS 101b (Fusion) Cert | | | | | | 20.9 | | | | | | | | 789 | 1331 | 127 | 378 | 48 | 7.77 | | 5.37 | 32.1 | 6.34 | 18.7 | |
| JR-1 Meas | 18 | 258 | | | | 3 | < 0.5 | < 0.2 | 3 | | 22.2 | | < 0.4 | 20.6 | 47.7 | 6.10 | 23.4 | 6.0 | 0.28 | | 1.0 | | | | |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | 2.86 | | 20.8 | | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | | 1.01 | | | | |
| NCS DC86318 Meas | | | | | | | | | | | | | | 1970 | 423 | 742 | 3320 | 1710 | 19.1 | 2150 | 488 | 3020 | 570 | 1660 | |
| NCS DC86318 Cert | | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | 3220 | 560 | 1750 | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| BCR-2 Meas | | | 339 | 32 | 172 | | | | | | | 694 | | | | | | | | | | | | | |
| BCR-2 Cert | | | 346 | 37 | 188 | | | | | | | 683 | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 20900 | 28400 | 2360 | 6490 | 532 | 87.3 | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92309 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92309 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92323 Orig | 16 | < 2 | 1352 | 170 | 441 | < 2 | 1.6 | < 0.2 | 15 | < 0.5 | < 0.5 | 93 | < 0.4 | 761 | 2020 | 249 | 983 | 144 | 35.1 | 82.4 | 9.7 | 43.0 | 6.7 | 15.1 | |
| 92323 Dup | 15 | < 2 | 1322 | 166 | 437 | < 2 | 1.6 | < 0.2 | 14 | < 0.5 | < 0.5 | 92 | < 0.4 | 750 | 1990 | 249 | 969 | 141 | 34.4 | 82.1 | 9.6 | 43.1 | 6.7 | 15.0 | |
| 92114 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92114 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92311 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92311 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92317 Orig | 18 | 2 | 1376 | 378 | 323 | < 2 | 1.2 | < 0.2 | 2 | < 0.5 | < 0.5 | 142 | < 0.4 | 350 | 816 | 101 | 404 | 91.3 | 32.8 | 98.2 | 17.1 | 89.4 | 15.3 | 32.1 | |
| 92317 Dup | 18 | 2 | 1334 | 372 | 330 | < 2 | 1.2 | < 0.2 | 2 | < 0.5 | < 0.5 | 137 | < 0.4 | 356 | 828 | 103 | 407 | 91.9 | 33.2 | 101 | 17.6 | 92.2 | 15.4 | 32.7 | |
| 92302 Orig | 17 | 136 | 915 | 204 | 145 | 2 | 0.6 | 0.5 | 23 | < 0.5 | 6.1 | 1962 | 2.2 | 946 | 2730 | 350 | 1350 | 258 | 65.1 | 146 | 15.1 | 60.8 | 8.4 | 18.6 | |
| 92302 Dup | 17 | 136 | 927 | 206 | 140 | 2 | 0.6 | 0.5 | 23 | < 0.5 | 6.1 | 1982 | 2.3 | 946 | 2750 | 352 | 1360 | 281 | 65.5 | 150 | 15.2 | 61.2 | 8.3 | 18.5 | |
| 92306 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92306 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92322 Orig | 7 | < 2 | 813 | 70 | 189 | < 2 | 0.8 | < 0.2 | 3 | < 0.5 | < 0.5 | 160 | < 0.4 | 367 | 936 | 121 | 462 | 70.8 | 17.6 | 41.6 | 4.6 | 21.9 | 3.2 | 6.9 | |
| 92322 Split | < 5 | < 2 | 837 | 74 | 202 | < 2 | 0.7 | < 0.2 | 3 | < 0.5 | < 0.5 | 167 | < 0.4 | 399 | 1030 | 121 | 459 | 73.3 | 17.8 | 45.4 | 5.0 | 20.7 | 3.1 | 6.8 | |
| 92108 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92108 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92124 Orig | < 5 | 93 | 87 | 31 | 276 | 3 | 0.9 | < 0.2 | 4 | < 0.5 | 0.8 | 293 | < 0.4 | 71.5 | 156 | 18.4 | 72.9 | 13.2 | 3.01 | 8.8 | 1.2 | 6.8 | 1.2 | 3.5 | |
| 92124 Dup | < 5 | 93 | 88 | 31 | 284 | 3 | 0.9 | < 0.2 | 4 | < 0.5 | 0.8 | 293 | < 0.4 | 71.2 | 156 | 18.4 | 71.9 | 13.4 | 3.00 | 9.2 | 1.2 | 6.8 | 1.2 | 3.5 | |
| 92294 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92294 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92351 Orig | 28 | < 2 | 1514 | 215 | 17 | 2 | 0.9 | 0.5 | 31 | < 0.5 | < 0.5 | 75 | 7.2 | 1530 | 4010 | 573 | 2400 | 461 | 104 | 218 | 18.7 | 68.1 | 7.4 | 14.9 | |
| 92351 Dup | 29 | < 2 | 1496 | 212 | 16 | < 2 | 0.9 | 0.5 | 32 | 0.6 | < 0.5 | 74 | 7.4 | 1550 | 4020 | 579 | 2430 | 480 | 105 | 215 | 18.5 | 67.5 | 7.4 | 14.3 | |
| 92357 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92357 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-8686 Rev2

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92362 Orig | 34 | < 2 | 937 | 539 | 14 | 11 | < 0.5 | 0.5 | 39 | < 0.5 | < 0.5 | 57 | 10.1 | 1680 | 4340 | 660 | 3010 | 668 | 161 | 336 | 40.5 | 159 | 20.2 | 34.2 |
| 92362 Dup | 33 | < 2 | 924 | 535 | 14 | 10 | < 0.5 | 0.5 | 37 | < 0.5 | < 0.5 | 57 | 9.7 | 1650 | 4240 | 631 | 2940 | 638 | 153 | 323 | 38.1 | 153 | 19.4 | 35.4 |
| Method Blank Method Blank | < 5 | < 2 | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 | Zn |
|-----------------------------|--------|--------|--------|--------|--------|---------|--------|-----------|--------|--------|---------|---------|-----------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | 0.01 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | FUS-Na2O2 |
| DH-1a Meas | | | | | | | | | 927 | | | | |
| DH-1a Cert | | | | | | | | | 910 | | | | |
| TAN-1 Meas | | | | | 2360 | | | | | | 0.291 | | |
| TAN-1 Cert | | | | | 2360 | | | | | | 0.288 | | |
| MP-1a Meas | | | | | | | | | | | | | 19.9 |
| MP-1a Cert | | | | | | | | | | | | | 19.0 |
| NIST 694 Meas | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | |
| DNC-1 Meas | | 2.0 | | | | | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | |
| CCU-1C Meas | | | | | | | | | | | | | 4.09 |
| CCU-1C Cert | | | | | | | | | | | | | 3.99 |
| LKSD-3 Meas | | 2.9 | 0.42 | | 0.7 | < 1 | | | 10.4 | 4.7 | | | |
| LKSD-3 Cert | | 2.70 | 0.400 | | 0.700 | 2.00 | | | 11.4 | 4.60 | | | |
| TDB-1 Meas | | 3.3 | | | | | | | 2.7 | | | | |
| TDB-1 Cert | | 3.4 | | | | | | | 2.7 | | | | |
| OKA-2 Meas | | | | | | | | | 28200 | 2570 | | | |
| OKA-2 Cert | | | | | | | | 28900.000 | 218.6 | | | | |
| AC-E Meas | | | | | | | | | | | | | 0.016 |
| AC-E Cert | | | | | | | | | | | | | 0.016 |
| DR-N Meas | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | 0.528 |
| OKA-1 Cert | | | | | | | | | | | | | 0.529 |
| W-2a Meas | 0.37 | 2.0 | 0.32 | 2.5 | 0.5 | < 1 | 0.1 | 11 | 2.2 | 0.5 | | | |
| W-2a Cert | 0.380 | 2.10 | 0.330 | 2.60 | 0.500 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 | | | |
| SY-4 Meas | | | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | 11.1 | 1.12 | | 2.8 | | | | 22.9 | 4.3 | | | |
| CTA-AC-1 Cert | | 11.4 | 1.08 | | 2.65 | | | | 21.8 | 4.4 | | | |
| BIR-1a Meas | | 1.7 | 0.25 | 0.5 | | | | 8 | | | | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | | 3 | | | | | |
| NCS DC86312 Meas | 14.1 | 85.6 | 11.8 | | | | | | 25.0 | | | | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | | 23.6 | | | | |
| ZW-C Meas | | | | | | | | | | | 0.010 | | |
| ZW-C Cert | | | | | | | | | | | 0.010 | | |
| VS-N Meas | | | | | | | | | | | 0.096 | 0.100 | |
| VS-N Cert | | | | | | | | | | | 0.098 | 0.10 | |
| NCS DC70014 Meas | 0.55 | 3.4 | 0.50 | | | | | 27200 | | | | | |
| NCS DC70014 Cert | 0.57 | 3.3 | 0.50 | | | | | 27200.00 | | | | | |
| NCS DC86316 Meas | | | | 712 | | | | | | | | | |
| NCS DC86316 Cert | | | | 712 | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | 2.36 | | | 2200 | | | 29.7 | | | | |
| NCS DC70009 (GBW07241) Cert | | | 2.4 | | | 2200.00 | | | 28.3 | | | | |
| SGR-1b Meas | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.38 | 15.1 | 2.11 | | | | | | 51.0 | 139 | | | |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | | 51.6 | 135 | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Zn |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | 0.01 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | FUS-Na2O2 |
| OREAS 101a (Fusion) Meas | 2.97 | 18.2 | 2.47 | | | | | | 35.6 | 421 | | | |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | 2.66 | | | | | | 36.6 | 422 | | | |
| OREAS 101b (Fusion) Meas | 2.83 | 17.7 | 2.43 | | | | | | 36.6 | 386 | | | |
| OREAS 101b (Fusion) Cert | 2.66 | 17.6 | 2.58 | | | | | | 37.1 | 396 | | | |
| JR-1 Meas | 0.70 | 4.7 | 0.70 | 4.0 | 1.8 | | 1.6 | 21 | 26.4 | 9.4 | | | |
| JR-1 Cert | 0.67 | 4.55 | 0.71 | 4.51 | 1.86 | | 1.56 | 19.3 | 26.7 | 8.88 | | | |
| NCS DC86318 Meas | 267 | 1740 | 258 | | | | | | | | | | |
| NCS DC86318 Cert | 270 | 1840 | 260.0 | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | 0.005 | 0.691 | |
| SX18-01 Cert | | | | | | | | | | | 0.005 | 0.695 | |
| SX18-04 Meas | | | | | | | | | | | 0.006 | 1.343 | |
| SX18-04 Cert | | | | | | | | | | | 0.005 | 1.32 | |
| SX18-05 Meas | | | | | | | | | | | 0.005 | 0.971 | |
| SX18-05 Cert | | | | | | | | | | | 0.004 | 0.973 | |
| CDN-GS-1F Meas | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | |
| BCR-2 Meas | | | | | | | | | | | | | |
| BCR-2 Cert | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| 92309 Orig | | | | | | | | | | | | | |
| 92309 Dup | | | | | | | | | | | | | |
| 92323 Orig | 1.62 | 8.1 | 1.11 | 5.3 | 149 | 6 | < 0.1 | 77 | 949 | 176 | 0.039 | 0.516 | |
| 92323 Dup | 1.62 | 7.9 | 1.04 | 5.0 | 148 | 6 | < 0.1 | 74 | 932 | 175 | 0.039 | 0.518 | |
| 92114 Orig | | | | | | | | | | | | | |
| 92114 Dup | | | | | | | | | | | | | |
| 92311 Orig | | | | | | | | | | | | | |
| 92311 Dup | | | | | | | | | | | | | |
| 92317 Orig | 3.69 | 17.1 | 2.18 | 3.5 | 8.3 | 3 | 0.3 | 21 | 313 | 13.4 | 0.004 | 0.250 | |
| 92317 Dup | 3.58 | 17.7 | 2.22 | 3.7 | 8.5 | 7 | 0.2 | 22 | 312 | 13.5 | 0.005 | 0.249 | |
| 92302 Orig | 1.89 | 9.5 | 1.16 | 3.4 | 17.2 | 4 | 2.6 | 281 | 808 | 14.9 | 0.004 | 0.146 | |
| 92302 Dup | 1.92 | 9.8 | 1.13 | 3.3 | 17.0 | 4 | 2.6 | 277 | 810 | 15.1 | 0.003 | 0.141 | |
| 92306 Orig | | | | | | | | | | | | | |
| 92306 Dup | | | | | | | | | | | | | |
| 92322 Orig | 0.79 | 4.5 | 0.61 | 1.9 | 20.2 | 3 | < 0.1 | 33 | 447 | 65.6 | 0.013 | 0.293 | |
| 92322 Split | 0.80 | 4.6 | 0.59 | 2.0 | 31.0 | 2 | < 0.1 | 35 | 480 | 68.5 | 0.015 | 0.295 | |
| 92108 Orig | | | | | | | | | | | | | |
| 92108 Dup | | | | | | | | | | | | | |
| 92124 Orig | 0.50 | 3.7 | 0.63 | 5.6 | 5.5 | 16 | 0.1 | 9 | 12.1 | 0.9 | < 0.003 | 0.015 | |
| 92124 Dup | 0.52 | 3.5 | 0.58 | 5.5 | 5.5 | 16 | 0.2 | 9 | 12.3 | 0.9 | < 0.003 | 0.014 | |
| 92294 Orig | | | | | | | | | | | | | |
| 92294 Dup | | | | | | | | | | | | | |
| 92351 Orig | 1.70 | 10.7 | 1.37 | 0.9 | 0.5 | 11 | < 0.1 | 549 | 961 | 0.3 | < 0.003 | 0.162 | |
| 92351 Dup | 1.68 | 10.5 | 1.35 | 0.7 | 0.5 | 11 | 0.1 | 549 | 967 | 0.2 | < 0.003 | 0.163 | |
| 92357 Orig | | | | | | | | | | | | | |
| 92357 Dup | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 | Zn |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | 0.01 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | FUS-Na2O2 |
| 92362 Orig | 3.49 | 19.0 | 2.43 | 0.7 | < 0.1 | 5 | 0.3 | 1030 | 1580 | 0.2 | < 0.003 | 0.030 | |
| 92362 Dup | 3.36 | 17.9 | 2.37 | 0.7 | < 0.1 | 4 | 0.3 | 975 | 1560 | 0.2 | < 0.003 | 0.030 | |
| Method Blank Method Blank | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 0.1 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | | | | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | < 0.003 | < 0.003 | |
| Method Blank Method Blank | | | | | | | | | | | | | |



Date Submitted: 06-Sep-11
Invoice No.: A11-9933
Invoice Date: 02-Nov-11
Your Reference: BATCH 10

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

81 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-9933

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: P2O5 interference on Zr/Hf/Ta

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A11-9933 rev 1

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|--------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92569 | 5 | 0.25 | 0.91 | 0.24 | 14.41 | 0.892 | 13.63 | 26.58 | 0.03 | 0.14 | 0.036 | 1.13 | 39.39 | 97.40 | 38 | 1 | 32 | < 20 | 4 | < 20 | < 10 | 160 | 11 | 2 |
| 92570 | < 5 | 0.53 | 21.36 | 4.30 | 9.06 | 0.493 | 11.40 | 17.52 | 0.83 | 3.83 | 1.140 | 0.10 | 26.42 | 96.45 | 23 | 42 | 150 | 710 | 44 | 270 | 40 | 200 | 11 | 1 |
| 92571 | < 5 | 0.43 | 3.09 | 0.56 | 10.29 | 0.874 | 15.02 | 26.28 | 0.08 | 0.59 | 0.095 | 0.74 | 39.43 | 97.04 | 23 | 18 | 49 | 150 | 11 | 80 | 100 | 240 | 12 | 2 |
| 92572 | < 5 | 0.30 | 0.75 | 0.07 | 8.02 | 0.814 | 14.80 | 29.49 | 0.02 | 0.05 | 0.009 | 2.57 | 41.07 | 97.67 | 8 | < 1 | 12 | < 20 | < 1 | < 20 | < 10 | 110 | 3 | < 1 |
| 92573 | 7 | 0.47 | 3.59 | 0.51 | 18.31 | 1.027 | 13.21 | 22.67 | 0.20 | 0.56 | 0.044 | 0.31 | 34.60 | 95.04 | 26 | 11 | 115 | 220 | 59 | 200 | 210 | 210 | 23 | 3 |
| 92574 | 6 | 0.51 | 33.38 | 6.96 | 10.93 | 0.243 | 9.50 | 10.66 | 2.00 | 5.85 | 1.674 | 0.47 | 17.35 | 99.02 | 32 | 67 | 320 | 1530 | 48 | 540 | 20 | 160 | 13 | 2 |
| 92575 | 5 | 0.73 | 32.31 | 6.27 | 12.29 | 0.216 | 9.86 | 10.77 | 2.08 | 5.48 | 1.647 | 1.46 | 15.66 | 98.03 | 37 | 95 | 371 | 1430 | 52 | 540 | 10 | 200 | 15 | 3 |
| 92576 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92577 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92578 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92579 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92580 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92581 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92582 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92583 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92584 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92585 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92561 | < 5 | 0.09 | 12.92 | 2.99 | 10.96 | 0.721 | 9.88 | 23.01 | 1.67 | 0.08 | 0.275 | 1.04 | 33.13 | 96.66 | 17 | 2 | 88 | 90 | 34 | 40 | < 10 | 70 | 9 | < 1 |
| 92562 | < 5 | 0.46 | 12.07 | 3.41 | 10.72 | 0.577 | 8.61 | 26.54 | 2.01 | 0.04 | 0.334 | 5.35 | 29.40 | 99.07 | 12 | 4 | 99 | 60 | 6 | 30 | < 10 | 120 | 9 | 1 |
| 92563 | < 5 | 0.24 | 9.41 | 2.73 | 10.87 | 0.510 | 10.52 | 25.65 | 1.60 | 0.04 | 0.374 | 2.48 | 34.16 | 98.34 | 13 | 3 | 60 | 40 | 9 | 30 | < 10 | 100 | 9 | < 1 |
| 92564 | < 5 | 0.42 | 5.59 | 1.61 | 12.02 | 0.675 | 9.99 | 28.65 | 0.95 | 0.02 | 0.577 | 4.62 | 33.68 | 98.39 | 38 | < 1 | 63 | 110 | 2 | 30 | < 10 | 190 | 8 | 1 |
| 92565 | 7 | 0.42 | 19.69 | 4.56 | 15.95 | 0.510 | 8.28 | 16.30 | 3.14 | 0.53 | 1.571 | 3.97 | 21.49 | 95.99 | 38 | 10 | 300 | 550 | 81 | 290 | 350 | 160 | 11 | 1 |
| 92566 | < 5 | 0.05 | 0.97 | 0.07 | 14.73 | 1.368 | 13.85 | 24.83 | 0.04 | 0.03 | 0.025 | 0.70 | 40.31 | 96.92 | 28 | 1 | 17 | 80 | < 1 | 40 | < 10 | 710 | 30 | 5 |
| 92567 | < 5 | 0.73 | 2.42 | 0.27 | 2.58 | 0.243 | 2.91 | 49.98 | 0.05 | 0.20 | 0.064 | 5.94 | 33.82 | 98.47 | 5 | < 1 | 41 | < 20 | < 1 | < 20 | 10 | < 30 | 6 | 1 |
| 92568 | < 5 | 0.49 | 12.49 | 0.29 | 32.14 | 0.769 | 11.67 | 17.83 | 0.03 | 0.17 | 1.264 | 4.31 | 17.32 | 98.28 | 22 | < 1 | 726 | < 20 | 3 | < 20 | < 10 | 150 | 10 | 2 |
| 92497 | 11 | 4.03 | 3.84 | 0.08 | 28.04 | 2.545 | 8.44 | 19.72 | 0.02 | 0.04 | 0.377 | 0.47 | 30.48 | 94.05 | 63 | 17 | 90 | 20 | 11 | < 20 | < 10 | 1750 | 32 | 7 |
| 92498 | < 5 | 0.73 | 4.98 | 0.30 | 5.38 | 0.431 | 13.63 | 31.98 | 0.08 | 0.25 | 0.064 | 6.80 | 34.23 | 98.13 | 12 | 1 | 14 | < 20 | < 1 | < 20 | < 10 | 50 | 6 | < 1 |
| 92499 | < 5 | 0.36 | 2.71 | 0.34 | 8.79 | 0.724 | 13.56 | 29.52 | 0.04 | 0.30 | 0.059 | 3.08 | 38.48 | 97.59 | 16 | 4 | 44 | < 20 | < 1 | < 20 | < 10 | 260 | 11 | 1 |
| 92500 | < 5 | 0.91 | 31.57 | 6.60 | 4.45 | 0.258 | 14.37 | 13.49 | 0.21 | 5.94 | 0.224 | 0.83 | 21.16 | 99.10 | 27 | 16 | 32 | 30 | 6 | 30 | < 10 | 90 | 10 | 1 |
| 92551 | < 5 | 0.88 | 2.15 | 0.55 | 5.71 | 0.361 | 13.81 | 32.44 | 0.06 | 0.45 | 0.069 | 8.43 | 32.05 | 96.08 | 15 | 2 | 31 | < 20 | 4 | < 20 | 30 | 230 | 4 | < 1 |
| 92552 | < 5 | 0.61 | 6.50 | 1.84 | 13.89 | 0.526 | 13.47 | 23.83 | 0.03 | 1.60 | 0.189 | 1.12 | 34.19 | 97.18 | 35 | 4 | 47 | < 20 | 7 | < 20 | 20 | 230 | 9 | < 1 |
| 92553 | < 5 | 0.31 | 36.92 | 10.61 | 17.81 | 0.163 | 5.28 | 5.98 | 0.16 | 8.35 | 4.337 | 0.17 | 10.19 | 99.98 | 23 | 21 | 238 | 20 | 53 | 50 | 100 | 190 | 22 | 1 |
| 92554 | < 5 | 0.50 | 40.29 | 12.31 | 13.91 | 0.223 | 4.59 | 6.94 | 2.94 | 5.22 | 3.911 | 0.50 | 9.59 | 100.4 | 26 | 13 | 396 | 60 | 47 | 60 | 60 | 110 | 22 | 1 |
| 92555 | < 5 | 0.50 | 45.09 | 13.19 | 7.16 | 0.155 | 4.42 | 6.43 | 2.71 | 7.41 | 3.440 | 0.29 | 8.54 | 98.82 | 17 | 4 | 155 | 60 | 25 | 40 | 80 | 70 | 16 | 1 |
| 92556 | 7 | 1.84 | 35.64 | 10.10 | 13.41 | 0.201 | 9.77 | 9.19 | 0.90 | 7.42 | 2.863 | 0.12 | 8.81 | 98.43 | 20 | 25 | 260 | 50 | 48 | 80 | 90 | 160 | 19 | 1 |
| 92557 | < 5 | 0.66 | 35.22 | 10.11 | 11.93 | 0.178 | 7.42 | 8.80 | 1.56 | 6.71 | 2.993 | 0.12 | 13.97 | 98.99 | 18 | 12 | 198 | 80 | 36 | 50 | 100 | 100 | 17 | 1 |
| 92558 | < 5 | 0.14 | 1.92 | 0.56 | 11.53 | 0.816 | 14.21 | 26.99 | 0.03 | 0.43 | 0.089 | 0.22 | 41.32 | 98.11 | 29 | 2 | 75 | 20 | 2 | < 20 | < 10 | 210 | 8 | 1 |
| 92559 | < 5 | 0.50 | 12.64 | 1.93 | 11.20 | 0.917 | 12.59 | 22.44 | 0.48 | 1.62 | 0.597 | 0.11 | 33.27 | 97.80 | 29 | 9 | 106 | 330 | 35 | 260 | 50 | 250 | 10 | 1 |
| 92560 | < 5 | 0.44 | 10.69 | 1.80 | 8.78 | 0.583 | 14.26 | 22.85 | 0.53 | 1.67 | 0.436 | 0.16 | 35.88 | 97.64 | 23 | 82 | 61 | 320 | 8 | 210 | < 10 | 250 | 10 | < 1 |
| 92488 | 8 | 6.95 | 2.14 | 0.36 | 11.52 | 2.218 | 11.58 | 30.50 | 0.03 | 0.23 | 0.025 | 1.08 | 31.68 | 91.35 | 80 | 5 | 22 | < 20 | < 1 | < 20 | 20 | 1570 | 32 | 6 |
| 92491 | < 5 | 0.67 | 4.63 | 0.15 | 10.93 | 2.120 | 13.32 | 25.11 | 0.02 | 0.08 | 0.019 | 0.45 | 37.28 | 94.08 | 88 | 3 | 16 | < 20 | < 1 | < 20 | 30 | 340 | 24 | 5 |
| 92365 | 7 | 1.42 | 3.39 | 0.19 | 11.36 | 1.504 | 11.97 | 28.71 | 0.04 | 0.09 | 0.326 | 4.56 | 35.20 | 97.34 | 82 | 12 | 85 | < 20 | < 1 | < 20 | < 10 | 520 | 22 | 4 |
| 92479 | < 5 | 0.18 | 1.41 | 0.45 | 5.51 | 0.429 | 17.49 | 29.11 | 0.11 | 0.18 | 0.048 | 1.27 | 42.88 | 98.88 | 8 | 4 | 93 | 30 | < 1 | < 20 | < 10 | 100 | 4 | < 1 |
| 92480 | < 5 | 1.05 | 1.45 | 0.19 | 7.46 | 0.324 | 3.00 | 45.24 | 0.12 | 0.05 | 0.033 | 10.72 | 28.53 | 97.11 | 14 | 10 | 62 | < 20 | < 1 | < 20 | < 10 | 50 | 7 | 1 |
| 92481 | < 5 | 0.26 | 11.88 | 1.32 | 7.10 | 0.468 | 13.21 | 25.38 | 0.75 | 0.10 | 0.406 | 2.53 | 34.75 | 97.89 | 23 | 7 | 150 | 520 | 8 | 100 | 60 | 90 | 7 | < 1 |
| 92482 | < 5 | 0.14 | 5.91 | 0.74 | 12.85 | 1.168 | 12.23 | 23.73 | 0.04 | 0.56 | 0.077 | 0.45 | 37.87 | 95.63 | 21 | 1 | 56 | 100 | 7 | 60 | < 10 | 390 | 17 | 2 |
| 92483 | < 5 | 0.57 | 2.38 | 0.26 | 3.91 | 0.213 | 2.82 | 48.40 | 0.10 | 0.17 | 0.158 | 5.18 | 34.95 | 98.54 | 6 | 4 | 73 | < 20 | < 1 | < 20 | < 10 | 30 | 7 | < 1 |
| 92484 | < 5 | 0.35 | 35.79 | 8.87 | 9.39 | 0.238 | 8.31 | 10.47 | 0.94 | 6.75 | 1.840 | 0.12 | 16.63 | 99.35 | 28 | 7 | 168 | 700 | 48 | 230 | 60 | 130 | 15 | < 1 |
| 92485 | < 5 | 0.32 | 1.20 | 0.21 | 1.48 | 0.199 | 1.71 | 52.56 | 0.06 | 0.15 | 0.044 | 2.41 | 39.56 | 99.59 | 3 | < 1 | 23 | < 20 | < 1 | < 20 | < 10 | < 30 | 4 | < 1 |
| 92486 | 5 | 0.75 | 9.43 | 2.12 | 8.10 | 0.514 | 14.44 | 26.40 | 0.15 | 1.17 | 0.216 | 3.27 | 33.72 | 99.54 | 33 | 13 | 61 | 30 | 3 | < 20 | 20 | 140 | 9 | 1 |
| 92487 | 10 | 1.59 | 6.84 | 0.50 | 10.22 | 1.993 | 12.59 | 24.80 | 0.03 | 0.38 | 0.827 | 1.47 | 33.59 | 93.24 | 114 | 4 | 67 | 20 | 2 | < 20 | 10 | 2210 | 22 | 5 |
| 92489 | 10 | 15.5 | 2.08 | 0.30 | 8.01 | 1.279 | 9.54 | 38.12 | 0.01 | 0.15 | 0.025 | 0.89 | 25.07 | 85.48 | 51 | 4 | 16 | < 20 | < 1 | < 20 | 30 | 880 | 25 | 4 |

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| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92490 | 6 | 5.70 | 2.68 | 0.23 | 12.16 | 1.066 | 10.06 | 33.17 | 0.03 | 0.14 | 0.031 | 6.05 | 24.73 | 90.36 | 42 | 6 | 20 | < 20 | 20 | 30 | 50 | 420 | 21 | 5 |
| 92492 | 12 | 0.96 | 1.17 | 0.33 | 6.45 | 0.450 | 11.99 | 34.31 | 0.12 | 0.10 | 0.084 | 10.09 | 30.71 | 95.80 | 26 | 17 | 141 | < 20 | < 1 | < 20 | < 10 | 190 | 11 | 2 |
| 92493 | < 5 | 0.75 | 9.65 | 2.65 | 11.54 | 0.920 | 13.09 | 22.64 | 0.07 | 1.68 | 0.367 | 0.24 | 34.01 | 96.86 | 77 | 37 | 154 | 430 | 29 | 180 | 20 | 270 | 18 | 2 |
| 92494 | < 5 | 0.64 | 1.87 | 0.52 | 5.94 | 0.410 | 12.91 | 34.14 | 0.08 | 0.34 | 0.050 | 7.59 | 34.37 | 98.21 | 15 | 18 | 93 | < 20 | < 1 | < 20 | < 10 | 60 | 6 | 1 |
| 92495 | < 5 | 3.22 | 0.62 | 0.15 | 7.19 | 0.500 | 9.90 | 37.14 | 0.06 | 0.09 | 0.029 | 10.53 | 29.39 | 95.61 | 12 | 114 | 74 | < 20 | < 1 | < 20 | < 10 | 80 | 9 | 2 |
| 92496 | < 5 | 0.30 | 0.51 | 0.15 | 6.80 | 0.447 | 15.17 | 31.73 | 0.04 | 0.06 | 0.039 | 3.70 | 39.79 | 98.43 | 19 | 7 | 130 | < 20 | < 1 | < 20 | < 10 | 50 | 5 | < 1 |
| 92369 | < 5 | 0.62 | 0.23 | 0.06 | 7.31 | 0.500 | 14.11 | 31.53 | 0.06 | 0.03 | 0.105 | 4.45 | 37.17 | 95.56 | 20 | 2 | 94 | < 20 | 21 | < 20 | < 10 | 250 | 8 | 2 |
| 92366 | 6 | 1.52 | 1.52 | 0.14 | 9.48 | 1.447 | 14.63 | 28.01 | 0.03 | 0.12 | 0.264 | 0.79 | 39.80 | 96.24 | 64 | 8 | 73 | < 20 | < 1 | < 20 | < 10 | 700 | 28 | 5 |
| 92367 | 11 | 0.25 | 2.61 | 0.16 | 6.67 | 0.634 | 6.50 | 39.53 | 0.04 | 0.07 | 0.049 | 2.27 | 38.51 | 97.04 | 19 | 23 | 39 | < 20 | < 1 | < 20 | < 10 | 100 | 14 | 2 |
| 92368 | < 5 | 3.91 | 0.54 | 0.13 | 9.57 | 1.521 | 13.56 | 30.21 | 0.03 | 0.08 | 0.196 | 0.78 | 38.29 | 94.90 | 57 | 6 | 75 | < 20 | < 1 | < 20 | < 10 | 970 | 25 | 4 |
| 92370 | 8 | 3.48 | 5.07 | 0.17 | 6.31 | 0.652 | 11.79 | 34.50 | 0.12 | 0.13 | 0.278 | 6.91 | 30.86 | 96.80 | 23 | 5 | 85 | < 20 | < 1 | < 20 | < 10 | 210 | 7 | 1 |
| 92371 | 14 | 1.65 | 1.11 | 0.31 | 7.78 | 1.117 | 14.27 | 32.11 | 0.07 | 0.21 | 0.310 | 3.17 | 38.29 | 98.75 | 52 | 5 | 89 | < 20 | < 1 | < 20 | < 10 | 810 | 15 | 3 |
| 92372 | < 5 | 1.65 | 1.05 | 0.22 | 5.85 | 1.009 | 15.19 | 31.63 | 0.03 | 0.19 | 0.176 | 3.45 | 38.96 | 97.76 | 33 | 9 | 41 | < 20 | < 1 | < 20 | < 10 | 170 | 16 | 4 |
| 92373 | < 5 | 0.87 | 1.59 | 0.14 | 12.67 | 1.570 | 13.25 | 26.18 | 0.04 | 0.09 | 0.154 | 1.77 | 38.77 | 96.24 | 58 | 6 | 69 | < 20 | < 1 | < 20 | < 10 | 1060 | 26 | 5 |
| 92374 | 7 | 0.14 | 1.16 | 0.10 | 12.55 | 1.390 | 14.09 | 25.31 | 0.02 | 0.08 | 0.230 | 0.41 | 40.65 | 96.01 | 65 | 6 | 75 | < 20 | < 1 | < 20 | < 10 | 1120 | 23 | 4 |
| 92375 | 13 | 2.01 | 0.41 | 0.09 | 11.01 | 1.656 | 11.24 | 31.06 | 0.04 | 0.06 | 0.203 | 5.51 | 34.54 | 95.82 | 66 | 6 | 87 | < 20 | < 1 | < 20 | < 10 | 690 | 20 | 4 |
| 92476 | 9 | 2.93 | 2.28 | 0.06 | 38.04 | 3.470 | 7.13 | 13.62 | 0.01 | < 0.01 | 0.167 | 0.29 | 29.43 | 94.51 | 53 | 3 | 64 | < 20 | 14 | < 20 | < 10 | 1850 | 25 | 6 |
| 92477 | 11 | 6.12 | 6.25 | 0.09 | 12.98 | 2.534 | 10.24 | 27.70 | 0.03 | 0.04 | 0.093 | 0.59 | 31.68 | 92.23 | 39 | 6 | 49 | < 20 | < 1 | < 20 | < 10 | 1750 | 35 | 6 |
| 92478 | 12 | 4.37 | 0.56 | 0.07 | 14.03 | 1.845 | 12.14 | 27.69 | 0.03 | 0.02 | 0.103 | 1.57 | 35.33 | 93.36 | 56 | 10 | 78 | < 20 | < 1 | < 20 | < 10 | 1040 | 39 | 7 |
| 92976 | < 5 | 0.07 | 13.90 | 2.72 | 8.94 | 0.578 | 11.59 | 22.85 | 0.34 | 2.28 | 0.435 | 0.61 | 33.49 | 97.73 | 22 | 6 | 106 | 280 | 20 | 110 | 90 | 170 | 12 | 1 |
| 92977 | 6 | 0.54 | 41.95 | 8.77 | 10.47 | 0.271 | 6.93 | 6.78 | 0.11 | 7.25 | 3.259 | 0.04 | 11.16 | 97.01 | 16 | 8 | 204 | 730 | 78 | 350 | 100 | 180 | 16 | 1 |
| 92978 | < 5 | 0.13 | 41.82 | 11.83 | 11.48 | 0.285 | 3.71 | 5.58 | 1.11 | 8.81 | 3.177 | 0.73 | 10.16 | 98.69 | 16 | 3 | 240 | 50 | 32 | 50 | 210 | 140 | 19 | 2 |
| 92979 | 12 | 0.56 | 8.57 | 2.01 | 10.60 | 0.532 | 8.72 | 29.16 | 0.08 | 1.70 | 0.078 | 6.15 | 30.76 | 98.36 | 15 | 1 | 93 | 170 | < 1 | 60 | 10 | 180 | 10 | 1 |
| 92980 | < 5 | 0.44 | 14.99 | 4.02 | 9.39 | 0.358 | 11.64 | 21.32 | 0.20 | 3.32 | 1.041 | 0.61 | 31.15 | 98.04 | 34 | 14 | 157 | 310 | 21 | 130 | 30 | 110 | 11 | < 1 |
| 92981 | < 5 | 0.52 | 6.75 | 1.63 | 9.82 | 0.773 | 10.71 | 29.34 | 0.08 | 1.36 | 0.055 | 4.54 | 33.37 | 98.44 | 34 | 7 | 101 | 30 | 1 | < 20 | < 10 | 260 | 10 | 1 |
| 92982 | < 5 | 0.20 | 51.34 | 11.71 | 5.98 | 0.686 | 3.14 | 5.28 | 0.63 | 9.35 | 0.500 | 0.08 | 8.62 | 97.32 | 14 | 17 | 88 | 50 | 8 | 20 | 30 | 60 | 21 | < 1 |
| 92983 | < 5 | 0.84 | 2.50 | 0.62 | 5.16 | 0.524 | 15.01 | 32.13 | 0.03 | 0.56 | 0.019 | 5.48 | 36.62 | 98.66 | 10 | 2 | 16 | < 20 | < 1 | < 20 | < 10 | 80 | 4 | < 1 |
| 92984 | < 5 | 0.67 | 0.68 | 0.15 | 5.71 | 0.683 | 14.24 | 33.70 | 0.04 | 0.11 | 0.020 | 6.13 | 37.55 | 99.01 | 16 | 1 | 26 | < 20 | < 1 | < 20 | 10 | 110 | 5 | < 1 |
| 92985 | < 5 | 0.86 | 4.93 | 1.33 | 11.02 | 0.638 | 11.57 | 29.37 | 0.04 | 1.14 | 0.062 | 5.43 | 31.74 | 97.27 | 27 | 6 | 26 | < 20 | 7 | < 20 | < 10 | 510 | 10 | < 1 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|------------------------|--------------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92569 | 8 | 5 | 2200 | 55 | 139 | < 2 | < 0.5 | < 0.2 | 13 | < 0.5 | < 0.5 | 60 | < 0.4 | 1250 | 2050 | 246 | 824 | 105 | 22.8 | 54.6 | 4.2 | 16.1 | 2.1 | 4.6 |
| 92570 | < 5 | 26 | 870 | 46 | 127 | 22 | < 0.5 | < 0.2 | 7 | 0.6 | < 0.5 | 150 | < 0.4 | 506 | 795 | 81.5 | 260 | 38.8 | 10.00 | 27.1 | 2.9 | 13.2 | 1.9 | 4.4 |
| 92571 | 6 | 17 | 1742 | 87 | 36 | 5 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 180 | < 0.4 | 1680 | 2400 | 249 | 713 | 90.8 | 23.4 | 65.8 | 6.4 | 26.2 | 3.5 | 6.9 |
| 92572 | < 5 | < 2 | 3015 | 43 | 13 | 12 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 36 | < 0.4 | 203 | 388 | 45.4 | 160 | 25.4 | 6.73 | 18.0 | 2.2 | 10.5 | 1.7 | 4.1 |
| 92573 | 13 | 12 | 1187 | 66 | 49 | 7 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 181 | < 0.4 | 4070 | 5480 | 502 | 1270 | 113 | 25.8 | 91.3 | 6.0 | 20.3 | 2.4 | 4.9 |
| 92574 | < 5 | 72 | 657 | 99 | 243 | 10 | 1.6 | < 0.2 | 6 | 0.7 | 1.5 | 299 | 11.3 | 114 | 221 | 33.2 | 180 | 49.5 | 12.7 | 31.3 | 4.3 | 21.3 | 3.4 | 7.9 |
| 92575 | 5 | 86 | 672 | 262 | 343 | 5 | 1.4 | < 0.2 | 12 | 1.2 | 2.0 | 310 | 8.7 | 187 | 414 | 75.5 | 477 | 149 | 37.4 | 88.5 | 11.4 | 58.3 | 9.3 | 21.6 |
| 92576 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92577 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92578 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92579 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92580 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92581 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92582 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92583 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92584 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92585 | NOT A SAMPLE | | | | | | | | | | | | | | | | | | | | | | | |
| 92561 | < 5 | < 2 | 1023 | 99 | 150 | 4 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 56 | < 0.4 | 655 | 1040 | 109 | 370 | 60.6 | 17.1 | 46.5 | 5.7 | 26.6 | 4.1 | 9.8 |
| 92562 | < 5 | < 2 | 1357 | 258 | 170 | 6 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 30 | < 0.4 | 431 | 738 | 83.7 | 306 | 65.4 | 21.3 | 63.4 | 9.7 | 53.6 | 9.3 | 25.3 |
| 92563 | < 5 | < 2 | 1121 | 236 | 96 | 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 33 | < 0.4 | 431 | 735 | 82.5 | 293 | 56.0 | 18.4 | 55.6 | 9.2 | 52.6 | 9.2 | 22.3 |
| 92564 | 6 | < 2 | 1449 | 770 | 153 | 25 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 25 | < 0.4 | 792 | 1280 | 146 | 532 | 132 | 45.1 | 144 | 25.6 | 157 | 28.5 | 75.8 |
| 92565 | 9 | 12 | 1710 | 102 | 310 | < 2 | 1.0 | < 0.2 | 6 | < 0.5 | 0.5 | 375 | 0.5 | 254 | 584 | 74.9 | 268 | 51.3 | 14.2 | 38.5 | 5.0 | 25.7 | 4.2 | 10.2 |
| 92566 | 14 | < 2 | 1637 | 132 | 13 | 8 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 86 | 1.5 | 3800 | 6590 | 763 | 2400 | 304 | 63.3 | 151 | 10.8 | 39.5 | 4.9 | 9.0 |
| 92567 | 6 | 12 | 5159 | 90 | 173 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 315 | < 0.4 | 504 | 1080 | 132 | 470 | 72.6 | 18.0 | 45.7 | 5.1 | 24.2 | 3.6 | 8.5 |
| 92568 | < 5 | 7 | 1518 | 43 | 671 | < 2 | 1.8 | < 0.2 | 11 | < 0.5 | < 0.5 | 86 | < 0.4 | 229 | 558 | 68.9 | 255 | 38.0 | 9.51 | 24.6 | 2.6 | 12.0 | 1.7 | 4.3 |
| 92497 | 23 | < 2 | 1284 | 1749 | 71 | 11 | 0.6 | 0.5 | 48 | 0.6 | < 0.5 | 101 | 4.6 | 3370 | 6130 | 784 | 2960 | 622 | 186 | 520 | 76.4 | 396 | 59.9 | 131 |
| 92498 | 6 | 3 | 1941 | 94 | 66 | 7 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 184 | < 0.4 | 375 | 814 | 101 | 385 | 66.9 | 17.8 | 47.0 | 5.5 | 25.9 | 3.9 | 9.0 |
| 92499 | < 5 | 3 | 1391 | 77 | 43 | 4 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 58 | < 0.4 | 1530 | 2270 | 240 | 726 | 87.1 | 21.0 | 60.0 | 5.3 | 22.1 | 3.0 | 6.8 |
| 92500 | < 5 | 114 | 888 | 39 | 92 | < 2 | < 0.5 | < 0.2 | 5 | < 0.5 | 2.3 | 243 | < 0.4 | 103 | 203 | 25.1 | 100 | 21.4 | 6.25 | 17.2 | 2.3 | 11.2 | 1.6 | 3.9 |
| 92551 | < 5 | 7 | 2790 | 107 | 101 | 2 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 146 | < 0.4 | 255 | 590 | 77.5 | 315 | 64.0 | 18.3 | 49.0 | 6.1 | 29.5 | 4.4 | 10.1 |
| 92552 | < 5 | 38 | 1467 | 23 | 499 | < 2 | 1.4 | < 0.2 | 13 | < 0.5 | 0.6 | 289 | < 0.4 | 223 | 442 | 52.0 | 184 | 23.1 | 5.12 | 13.2 | 1.3 | 5.6 | 0.9 | 2.2 |
| 92553 | < 5 | 122 | 336 | 18 | 180 | 3 | < 0.5 | < 0.2 | 3 | < 0.5 | 0.6 | 311 | < 0.4 | 33.2 | 66.1 | 8.05 | 30.9 | 5.4 | 1.43 | 4.4 | 0.6 | 3.8 | 0.7 | 2.0 |
| 92554 | < 5 | 85 | 363 | 35 | 310 | 2 | 0.7 | < 0.2 | 2 | < 0.5 | 1.5 | 675 | < 0.4 | 36.1 | 76.3 | 10.2 | 43.6 | 10.0 | 2.38 | 8.7 | 1.3 | 7.6 | 1.3 | 3.4 |
| 92555 | < 5 | 65 | 283 | 33 | 157 | 4 | < 0.5 | < 0.2 | 2 | 1.1 | 1.7 | 616 | < 0.4 | 49.4 | 95.3 | 11.7 | 48.1 | 10.8 | 2.52 | 9.3 | 1.3 | 7.4 | 1.2 | 3.3 |
| 92556 | < 5 | 133 | 689 | 31 | 256 | 3 | 0.6 | < 0.2 | 2 | 0.8 | 3.7 | 489 | < 0.4 | 36.2 | 72.3 | 8.59 | 33.2 | 7.6 | 2.01 | 7.3 | 1.1 | 6.5 | 1.2 | 3.2 |
| 92557 | < 5 | 72 | 470 | 21 | 155 | 2 | < 0.5 | < 0.2 | 1 | 0.6 | 1.8 | 305 | < 0.4 | 39.3 | 72.0 | 8.44 | 31.4 | 5.5 | 1.44 | 4.7 | 0.7 | 4.2 | 0.8 | 2.3 |
| 92558 | 6 | 7 | 1716 | 163 | 44 | 5 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 49 | < 0.4 | 982 | 1540 | 163 | 561 | 91.2 | 25.5 | 69.5 | 8.2 | 41.2 | 6.3 | 14.9 |
| 92559 | < 5 | 20 | 1388 | 79 | 52 | 10 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 123 | < 0.4 | 2160 | 3710 | 312 | 915 | 94.0 | 24.2 | 77.1 | 6.9 | 25.3 | 3.2 | 6.9 |
| 92560 | 5 | 15 | 1195 | 64 | 78 | 15 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 226 | < 0.4 | 964 | 1350 | 131 | 394 | 63.9 | 17.3 | 44.6 | 4.4 | 18.8 | 2.4 | 5.1 |
| 92488 | 21 | 6 | 1401 | 200 | 43 | 12 | < 0.5 | 0.3 | 1 | < 0.5 | < 0.5 | 248 | 3.7 | 1910 | 6100 | 872 | 3020 | 380 | 73.8 | 168 | 11.9 | 44.6 | 5.7 | 11.9 |
| 92491 | 17 | 2 | 1499 | 162 | 24 | 3 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 251 | 1.1 | 1260 | 4270 | 690 | 2570 | 392 | 83.8 | 183 | 12.8 | 42.3 | 4.9 | 9.8 |
| 92365 | 15 | 2 | 3153 | 496 | 86 | 11 | < 0.5 | < 0.2 | 23 | < 0.5 | < 0.5 | 215 | 1.9 | 2510 | 4450 | 541 | 1880 | 367 | 105 | 276 | 32.9 | 144 | 18.4 | 36.1 |
| 92479 | < 5 | 3 | 1202 | 35 | 121 | 11 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 48 | < 0.4 | 293 | 604 | 72.0 | 251 | 35.5 | 8.52 | 21.0 | 2.1 | 9.7 | 1.4 | 3.3 |
| 92480 | < 5 | < 2 | 4118 | 93 | 462 | < 2 | 1.3 | < 0.2 | 6 | < 0.5 | < 0.5 | 313 | < 0.4 | 495 | 1240 | 156 | 585 | 91.9 | 22.6 | 55.9 | 6.0 | 27.5 | 3.8 | 8.2 |
| 92481 | 6 | < 2 | 1449 | 197 | 36 | 5 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 65 | < 0.4 | 618 | 1020 | 113 | 397 | 85.9 | 27.6 | 80.3 | 11.3 | 55.6 | 7.9 | 16.6 |
| 92482 | 7 | 6 | 1167 | 45 | 30 | 7 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 223 | < 0.4 | 2030 | 3520 | 397 | 1210 | 129 | 27.9 | 76.7 | 5.2 | 16.4 | 1.6 | 2.8 |
| 92483 | < 5 | 6 | 5163 | 98 | 201 | < 2 | 0.6 | < 0.2 | 1 | < 0.5 | < 0.5 | 301 | < 0.4 | 629 | 1310 | 163 | 583 | 83.2 | 20.7 | 53.0 | 5.8 | 26.3 | 3.9 | 8.8 |
| 92484 | < 5 | 71 | 754 | 39 | 131 | 3 | < 0.5 | < 0.2 | 2 | < 0.5 | 1.2 | 453 | < 0.4 | 59.8 | 110 | 13.3 | 51.1 | 11.6 | 3.20 | 10.4 | 1.6 | 9.0 | 1.5 | 4.1 |
| 92485 | < 5 | 6 | 5468 | 69 | 26 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 719 | < 0.4 | 458 | 893 | 104 | 361 | 50.4 | 12.3 | 34.0 | 3.7 | 17.2 | 2.6 | 6.6 |
| 92486 | 12 | 33 | 1121 | 201 | 60 | 14 | < 0.5 | < 0.2 | 3 | < 0.5 | 1.1 | 296 | < 0.4 | 547 | 1090 | 132 | 503 | 103 | 30.8 | 84.2 | 10.8 | 51.7 | 7.7 | 17.9 |
| 92487 | 18 | 11 | 1575 | 279 | 77 | 12 | < 0.5 | 0.5 | 10 | < 0.5 | < 0.5 | 334 | 5.2 | 866 | 3570 | 660 | 2610 | 355 | 77.0 | 182 | 17.5 | 72.8 | 9.9 | 21.0 |
| 92489 | 16 | 5 | 1628 | 172 | 42 | 20 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 235 | 4.4 | 2230 | 5110 | 680 | 2280 | 306 | 67.7 | 157 | 11.9 | 44.6 | 5.4 | 10.8 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92490 | 19 | 5 | 1488 | 370 | 29 | 17 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 217 | 1.2 | 1430 | 4310 | 641 | 2400 | 399 | 89.6 | 204 | 20.8 | 92.6 | 13.5 | 29.3 |
| 92492 | 11 | < 2 | 1347 | 150 | 366 | 2 | 1.4 | < 0.2 | 3 | < 0.5 | < 0.5 | 79 | < 0.4 | 1020 | 2180 | 287 | 1030 | 159 | 38.9 | 97.3 | 10.2 | 46.3 | 6.6 | 14.9 |
| 92493 | 41 | 37 | 1312 | 234 | 48 | 39 | < 0.5 | < 0.2 | 33 | 0.9 | 0.7 | 700 | 0.8 | 2140 | 3190 | 314 | 876 | 106 | 25.5 | 77.4 | 10.1 | 55.3 | 8.9 | 21.8 |
| 92494 | 6 | 3 | 1073 | 91 | 133 | < 2 | 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 74 | < 0.4 | 474 | 1190 | 155 | 579 | 93.3 | 23.4 | 55.7 | 6.1 | 28.4 | 4.1 | 9.3 |
| 92495 | 8 | < 2 | 2924 | 161 | 210 | 4 | 0.8 | < 0.2 | 3 | < 0.5 | < 0.5 | 208 | < 0.4 | 718 | 1790 | 239 | 931 | 158 | 40.1 | 99.2 | 10.7 | 47.0 | 6.6 | 15.0 |
| 92496 | 6 | < 2 | 748 | 110 | 99 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 39 | < 0.4 | 484 | 1050 | 125 | 434 | 67.9 | 17.5 | 45.9 | 5.6 | 28.6 | 4.5 | 10.6 |
| 92369 | 27 | < 2 | 2891 | 135 | 71 | 10 | < 0.5 | < 0.2 | 5 | < 0.5 | < 0.5 | 73 | 1.4 | 784 | 1790 | 226 | 834 | 136 | 33.9 | 81.4 | 8.5 | 38.0 | 5.5 | 13.0 |
| 92366 | 21 | 3 | 1993 | 355 | 46 | 14 | < 0.5 | < 0.2 | 15 | < 0.5 | < 0.5 | 240 | 1.3 | 2670 | 5550 | 718 | 2540 | 346 | 82.2 | 204 | 22.2 | 102 | 14.0 | 29.9 |
| 92367 | 12 | < 2 | 1528 | 76 | 73 | 31 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 584 | < 0.4 | 1750 | 2920 | 359 | 1240 | 165 | 34.2 | 81.1 | 6.1 | 24.1 | 3.0 | 6.7 |
| 92368 | 17 | 2 | 2405 | 414 | 22 | 20 | < 0.5 | < 0.2 | 21 | < 0.5 | < 0.5 | 171 | 1.8 | 2860 | 5460 | 665 | 2200 | 312 | 81.2 | 218 | 24.6 | 112 | 16.0 | 37.3 |
| 92370 | 12 | 4 | 3233 | 276 | 161 | 3 | 0.6 | < 0.2 | 12 | 0.7 | < 0.5 | 116 | 0.6 | 606 | 1470 | 186 | 689 | 121 | 34.8 | 92.7 | 13.3 | 70.4 | 10.9 | 25.7 |
| 92371 | 21 | 6 | 3195 | 392 | 47 | 14 | < 0.5 | < 0.2 | 30 | < 0.5 | < 0.5 | 248 | 1.5 | 1750 | 3110 | 383 | 1340 | 222 | 64.3 | 174 | 22.8 | 108 | 15.9 | 33.8 |
| 92372 | 18 | 6 | 3411 | 292 | 34 | 6 | < 0.5 | < 0.2 | 13 | < 0.5 | < 0.5 | 257 | 0.8 | 1580 | 3110 | 417 | 1520 | 237 | 60.6 | 150 | 17.8 | 86.2 | 12.3 | 27.6 |
| 92373 | 18 | 3 | 2609 | 292 | 24 | 3 | < 0.5 | < 0.2 | 32 | < 0.5 | < 0.5 | 197 | 2.7 | 2630 | 5330 | 674 | 2290 | 363 | 97.1 | 239 | 25.4 | 105 | 13.0 | 22.8 |
| 92374 | 19 | 2 | 3571 | 225 | 19 | 6 | < 0.5 | 0.2 | 22 | < 0.5 | < 0.5 | 176 | 1.7 | 2350 | 4680 | 589 | 2110 | 386 | 98.2 | 225 | 19.9 | 72.2 | 8.8 | 18.0 |
| 92375 | 15 | < 2 | 2882 | 577 | 56 | 35 | 0.5 | < 0.2 | 23 | 0.6 | < 0.5 | 175 | 1.4 | 1800 | 3930 | 543 | 1960 | 329 | 86.7 | 225 | 28.3 | 143 | 21.6 | 50.9 |
| 92476 | 16 | < 2 | 908 | 485 | 22 | 13 | < 0.5 | 0.5 | 29 | < 0.5 | < 0.5 | 127 | 6.1 | 2140 | 4830 | 659 | 2500 | 532 | 138 | 317 | 32.9 | 141 | 18.4 | 36.8 |
| 92477 | 17 | < 2 | 2274 | 380 | 20 | 3 | 0.5 | < 0.2 | 7 | < 0.5 | < 0.5 | 319 | 3.4 | 3230 | 8000 | 972 | 2890 | 327 | 73.6 | 191 | 17.2 | 81.8 | 12.8 | 29.7 |
| 92478 | 22 | < 2 | 2211 | 394 | 87 | 46 | 0.7 | 0.2 | 28 | 0.6 | < 0.5 | 184 | 1.5 | 4800 | 8250 | 979 | 3420 | 524 | 127 | 304 | 27.9 | 114 | 14.6 | 30.8 |
| 92976 | 5 | 15 | 1604 | 95 | 112 | 8 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 568 | 0.7 | 748 | 1270 | 141 | 491 | 120 | 35.5 | 92.7 | 8.7 | 31.4 | 3.8 | 8.1 |
| 92977 | 12 | 107 | 322 | 27 | 72 | 11 | < 0.5 | < 0.2 | 9 | < 0.5 | 1.7 | 429 | < 0.4 | 125 | 242 | 26.6 | 94.9 | 18.5 | 4.25 | 12.4 | 1.4 | 6.9 | 1.0 | 2.8 |
| 92978 | 7 | 82 | 349 | 75 | 209 | 5 | 0.9 | < 0.2 | 5 | 0.9 | < 0.5 | 362 | < 0.4 | 233 | 418 | 48.2 | 182 | 39.2 | 11.2 | 30.2 | 3.7 | 18.4 | 2.8 | 7.3 |
| 92979 | 7 | 12 | 1628 | 190 | 69 | 27 | 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 110 | < 0.4 | 600 | 1180 | 141 | 535 | 126 | 38.6 | 100.0 | 11.4 | 51.2 | 7.5 | 16.5 |
| 92980 | < 5 | 55 | 1128 | 38 | 76 | 2 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 184 | < 0.4 | 274 | 488 | 54.4 | 190 | 32.8 | 8.52 | 23.1 | 2.5 | 11.3 | 1.6 | 3.9 |
| 92981 | 11 | 22 | 2209 | 71 | 106 | 31 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 116 | < 0.4 | 1040 | 1770 | 187 | 619 | 100 | 24.8 | 58.6 | 5.4 | 21.7 | 2.8 | 6.6 |
| 92982 | 5 | 133 | 277 | 13 | 137 | 9 | < 0.5 | < 0.2 | 8 | < 0.5 | < 0.5 | 271 | < 0.4 | 356 | 536 | 52.2 | 159 | 16.9 | 3.17 | 9.4 | 0.8 | 3.6 | 0.5 | 1.3 |
| 92983 | < 5 | 16 | 2337 | 71 | 23 | 4 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 121 | < 0.4 | 194 | 454 | 58.2 | 229 | 44.6 | 11.8 | 31.1 | 3.9 | 20.0 | 3.0 | 7.4 |
| 92984 | < 5 | 3 | 2185 | 108 | 14 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 64 | < 0.4 | 316 | 743 | 98.2 | 384 | 72.5 | 19.1 | 45.3 | 5.5 | 27.8 | 4.3 | 9.9 |
| 92985 | 8 | 31 | 2121 | 110 | 500 | 4 | 1.5 | < 0.2 | 9 | < 0.5 | < 0.5 | 343 | < 0.4 | 338 | 761 | 95.7 | 373 | 67.4 | 18.4 | 47.8 | 5.8 | 28.9 | 4.2 | 9.6 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92569 | 0.51 | 2.8 | 0.42 | 2.5 | 1 | < 0.1 | 73 | 45.2 | 77.1 | 0.012 | 0.087 | 630 |
| 92570 | 0.51 | 2.7 | 0.41 | 2.6 | 20 | 0.1 | 9 | 56.7 | 0.3 | < 0.003 | 0.052 | 1540 |
| 92571 | 0.78 | 3.8 | 0.54 | 0.7 | 5 | < 0.1 | 15 | 145 | 0.7 | < 0.003 | 0.012 | 1330 |
| 92572 | 0.46 | 2.5 | 0.33 | 0.2 | < 1 | < 0.1 | < 5 | 17.3 | 1.4 | < 0.003 | 0.098 | 820 |
| 92573 | 0.51 | 2.5 | 0.40 | 0.7 | 3 | < 0.1 | 12 | 148 | 0.4 | < 0.003 | 0.004 | 1440 |
| 92574 | 1.01 | 5.9 | 0.84 | 5.5 | 18 | 0.3 | 315 | 706 | 3.6 | < 0.003 | 0.031 | 768 |
| 92575 | 2.57 | 13.4 | 1.66 | 7.7 | 17 | 0.4 | 262 | 2140 | 11.9 | < 0.003 | 0.037 | 862 |
| 92576 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92577 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92578 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92579 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92580 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92581 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92582 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92583 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92584 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92585 NOT A SAMPLE | | | | | | | | | | | | 0.000 |
| 92561 | 1.14 | 6.2 | 0.87 | 2.3 | 5 | < 0.1 | 6 | 151 | 4.7 | < 0.003 | 0.024 | 1400 |
| 92562 | 3.28 | 18.5 | 2.41 | 2.2 | 3 | < 0.1 | 7 | 230 | 5.7 | 0.003 | 0.031 | 1250 |
| 92563 | 2.75 | 14.5 | 1.80 | 1.6 | 3 | < 0.1 | 6 | 139 | 2.7 | 0.003 | 0.019 | 922 |
| 92564 | 9.31 | 48.4 | 5.89 | 3.8 | 5 | < 0.1 | 47 | 418 | 20.1 | < 0.003 | 0.024 | 862 |
| 92565 | 1.20 | 6.5 | 0.84 | 6.8 | 9 | < 0.1 | 19 | 107 | 1.9 | < 0.003 | 0.031 | 1100 |
| 92566 | 1.01 | 5.1 | 0.60 | 0.4 | < 1 | < 0.1 | 122 | 660 | 0.5 | < 0.003 | 0.004 | 493 |
| 92567 | 1.03 | 5.7 | 0.78 | 1.0 | < 1 | < 0.1 | 108 | 149 | 146 | 0.012 | 0.099 | 673 |
| 92568 | 0.53 | 3.3 | 0.54 | 3.7 | 3 | < 0.1 | 87 | 223 | 171 | 0.022 | 0.238 | 1210 |
| 92497 | 12.6 | 57.8 | 6.50 | 3.1 | 13 | 0.1 | 510 | 1270 | 1.9 | 0.003 | 0.212 | 545 |
| 92498 | 1.03 | 5.9 | 0.76 | 1.6 | 2 | 0.1 | 135 | 123 | 89.1 | 0.018 | 0.554 | 1720 |
| 92499 | 0.81 | 4.4 | 0.67 | 0.8 | < 1 | 0.1 | 17 | 82.3 | 14.9 | 0.003 | 0.266 | 989 |
| 92500 | 0.48 | 2.9 | 0.44 | 1.9 | < 1 | 0.3 | 13 | 20.7 | 1.3 | < 0.003 | 0.033 | 1380 |
| 92551 | 1.18 | 6.6 | 0.87 | 1.8 | 5 | < 0.1 | 61 | 201 | 113 | 0.020 | 0.503 | 1220 |
| 92552 | 0.31 | 1.8 | 0.28 | 6.8 | 4 | 0.3 | 127 | 76.8 | 200 | 0.043 | 0.256 | 1120 |
| 92553 | 0.29 | 1.9 | 0.30 | 3.4 | 16 | 0.3 | < 5 | 8.2 | 1.1 | < 0.003 | 0.040 | 638 |
| 92554 | 0.46 | 2.8 | 0.45 | 6.5 | 26 | 0.3 | < 5 | 6.8 | 0.6 | < 0.003 | 0.015 | 1040 |
| 92555 | 0.46 | 2.6 | 0.38 | 2.9 | 13 | 0.3 | < 5 | 16.1 | 0.5 | < 0.003 | 0.040 | 1040 |
| 92556 | 0.44 | 2.5 | 0.35 | 5.4 | 35 | 0.4 | 7 | 11.8 | 0.2 | < 0.003 | 0.027 | 839 |
| 92557 | 0.34 | 2.2 | 0.34 | 4.1 | 14 | 0.2 | < 5 | 10.4 | 0.3 | < 0.003 | 0.019 | 736 |
| 92558 | 1.75 | 8.5 | 1.10 | 0.9 | 1 | < 0.1 | 18 | 102 | 0.8 | < 0.003 | 0.011 | 1120 |
| 92559 | 0.76 | 4.2 | 0.59 | 1.5 | 7 | 0.1 | 24 | 239 | 0.5 | < 0.003 | 0.016 | 889 |
| 92560 | 0.53 | 2.7 | 0.37 | 1.3 | 7 | < 0.1 | 14 | 93.4 | 0.3 | < 0.003 | 0.030 | 403 |
| 92488 | 1.36 | 7.0 | 0.92 | 0.8 | < 1 | 0.2 | 523 | 1060 | 0.4 | < 0.003 | 0.006 | 1700 |
| 92491 | 1.09 | 6.3 | 0.86 | 0.5 | 2 | < 0.1 | 179 | 1110 | 0.3 | 0.003 | 0.011 | 2340 |
| 92365 | 3.87 | 21.3 | 2.85 | 1.5 | 7 | 0.2 | 201 | 804 | 2.5 | < 0.003 | 0.115 | 2240 |
| 92479 | 0.39 | 2.3 | 0.31 | 1.2 | < 1 | < 0.1 | 5 | 40.3 | 2.3 | < 0.003 | 0.093 | 1110 |
| 92480 | 0.98 | 5.3 | 0.70 | 3.4 | 3 | < 0.1 | 34 | 1040 | 60.9 | 0.027 | 0.828 | 372 |
| 92481 | 1.75 | 8.9 | 1.22 | 1.0 | 4 | < 0.1 | 15 | 128 | 1.7 | 0.003 | 0.030 | 851 |
| 92482 | 0.31 | 1.9 | 0.29 | 0.5 | < 1 | < 0.1 | 23 | 217 | 1.4 | < 0.003 | 0.018 | 1460 |
| 92483 | 1.07 | 5.7 | 0.82 | 1.6 | < 1 | < 0.1 | 217 | 207 | 264 | 0.018 | 0.080 | 1010 |
| 92484 | 0.57 | 3.5 | 0.55 | 3.0 | 15 | 0.2 | 15 | 15.9 | 1.2 | < 0.003 | 0.052 | 1240 |
| 92485 | 0.81 | 4.7 | 0.72 | 0.4 | < 1 | < 0.1 | 51 | 46.5 | 43.6 | 0.005 | 0.020 | 510 |
| 92486 | 1.79 | 8.6 | 1.13 | 1.3 | 1 | 0.3 | 85 | 103 | 19.7 | 0.004 | 0.068 | 3000 |
| 92487 | 2.43 | 12.2 | 1.58 | 1.7 | 6 | 0.3 | 754 | 1070 | 1.4 | < 0.003 | 0.093 | 1500 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92489 | 1.19 | 6.3 | 0.82 | 0.8 | < 1 | 0.2 | 492 | 873 | 0.2 | < 0.003 | 0.008 | 1800 |
| 92490 | 3.17 | 15.4 | 1.78 | 1.0 | < 1 | 0.2 | 245 | 1330 | 0.3 | 0.003 | 0.010 | 2070 |
| 92492 | 1.78 | 10.2 | 1.42 | 3.9 | 4 | 0.1 | 57 | 589 | 103 | 0.019 | 0.411 | 1200 |
| 92493 | 2.64 | 13.5 | 1.77 | 1.9 | 2 | 1.7 | 61 | 185 | 0.5 | < 0.003 | 0.034 | 1490 |
| 92494 | 1.08 | 5.8 | 0.74 | 1.2 | < 1 | 0.2 | 73 | 349 | 29.9 | 0.013 | 0.386 | 634 |
| 92495 | 1.69 | 9.5 | 1.39 | 2.0 | 2 | < 0.1 | 72 | 1010 | 47.0 | 0.016 | 0.836 | 1660 |
| 92496 | 1.32 | 7.1 | 0.89 | 1.4 | < 1 | < 0.1 | 110 | 168 | 26.3 | 0.005 | 0.158 | 853 |
| 92369 | 1.65 | 9.5 | 1.27 | 0.8 | 1 | 0.6 | 109 | 242 | 0.4 | < 0.003 | 0.502 | 1870 |
| 92366 | 3.51 | 19.9 | 2.59 | 1.2 | 4 | 0.3 | 170 | 470 | 0.2 | < 0.003 | 0.130 | 1440 |
| 92367 | 0.79 | 4.7 | 0.72 | 0.9 | < 1 | 0.2 | 61 | 307 | 56.2 | 0.011 | 0.079 | 1370 |
| 92368 | 4.51 | 24.9 | 3.45 | 0.9 | 2 | 0.2 | 231 | 779 | 0.3 | 0.003 | 0.042 | 2210 |
| 92370 | 2.95 | 15.5 | 2.15 | 2.3 | 9 | 0.2 | 218 | 486 | 3.6 | < 0.003 | 0.938 | 1770 |
| 92371 | 3.95 | 21.9 | 2.82 | 1.2 | 3 | 0.7 | 136 | 466 | 1.2 | < 0.003 | 0.135 | 1710 |
| 92372 | 2.99 | 15.9 | 2.09 | 1.1 | 1 | 0.4 | 21 | 354 | 0.3 | < 0.003 | 0.065 | 1560 |
| 92373 | 2.64 | 14.4 | 1.90 | 0.9 | 1 | 0.2 | 99 | 783 | 0.2 | < 0.003 | 0.073 | 1760 |
| 92374 | 2.07 | 12.2 | 1.73 | 0.7 | 2 | 0.3 | 292 | 888 | < 0.1 | < 0.003 | 0.052 | 1820 |
| 92375 | 6.25 | 34.8 | 4.82 | 1.7 | 4 | 0.2 | 123 | 563 | 0.7 | < 0.003 | 0.191 | 2030 |
| 92476 | 3.72 | 20.0 | 2.39 | 1.1 | 2 | 0.1 | 359 | 1310 | 0.3 | 0.003 | 0.036 | 2210 |
| 92477 | 3.68 | 19.3 | 2.42 | 0.7 | 1 | < 0.1 | 307 | 819 | 0.2 | < 0.003 | 0.044 | 1810 |
| 92478 | 3.39 | 18.8 | 2.49 | 2.3 | 2 | < 0.1 | 244 | 647 | 0.2 | < 0.003 | 0.068 | 2040 |
| 92976 | 0.96 | 6.3 | 0.96 | 2.0 | 3 | < 0.1 | 53 | 224 | 2.7 | < 0.003 | 0.040 | |
| 92977 | 0.35 | 2.1 | 0.34 | 2.1 | 26 | 0.7 | 17 | 38.6 | 1.4 | < 0.003 | 0.161 | |
| 92978 | 0.85 | 5.1 | 0.74 | 5.2 | 13 | 0.3 | 44 | 61.7 | 0.8 | < 0.003 | 0.061 | |
| 92979 | 2.05 | 11.8 | 1.59 | 1.0 | 1 | < 0.1 | 30 | 316 | 7.9 | < 0.003 | 0.048 | |
| 92980 | 0.43 | 2.2 | 0.37 | 1.8 | 5 | 0.3 | 17 | 47.6 | 1.6 | < 0.003 | 0.064 | |
| 92981 | 0.86 | 5.2 | 0.87 | 2.0 | < 1 | 0.2 | 66 | 130 | 8.3 | 0.003 | 0.043 | |
| 92982 | 0.18 | 1.2 | 0.19 | 3.6 | 3 | 0.8 | 11 | 19.0 | 0.8 | < 0.003 | 0.036 | |
| 92983 | 0.85 | 4.7 | 0.66 | 0.6 | < 1 | < 0.1 | 18 | 38.3 | 23.5 | 0.006 | 0.122 | |
| 92984 | 1.06 | 5.5 | 0.65 | 0.4 | < 1 | < 0.1 | 11 | 133 | 1.4 | < 0.003 | 0.090 | |
| 92985 | 1.07 | 5.6 | 0.81 | 7.1 | 3 | 0.3 | 86 | 139 | 298 | 0.070 | 0.696 | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|--------|------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| NIST 694 Meas | | | 11.30 | 1.91 | 0.76 | 0.012 | 0.36 | 43.70 | 0.91 | 0.56 | 0.092 | 30.24 | | | | | 1680 | | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | |
| DNC-1 Meas | | | 47.69 | 18.40 | 10.28 | 0.149 | 9.51 | 11.31 | 1.88 | 0.23 | 0.483 | 0.03 | | | 32 | | 161 | 270 | 58 | 250 | 100 | 70 | | | |
| DNC-1 Cert | | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | 270.000 | 57.0 | 247.000 | 100.0 | 70.0 | | | |
| GBW 07113 Meas | | | 72.44 | 13.16 | 3.16 | 0.139 | 0.12 | 0.57 | 2.42 | 5.38 | 0.282 | 0.06 | | | 5 | 4 | < 5 | | | | | | | | |
| GBW 07113 Cert | | | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | 70 | | 32 | 50 | 30 | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| MA-N (Depleted) Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MA-N (Depleted) Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | | 52.59 | 15.49 | 10.95 | 0.166 | 6.59 | 10.84 | 2.08 | 0.63 | 1.075 | 0.12 | | | 36 | < 1 | 282 | 90 | 43 | 70 | 110 | 80 | 17 | 2 | |
| W-2a Cert | | | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | 110 | 80.0 | 17.0 | 1.00 | |
| SY-4 Meas | | | 50.63 | 22.23 | 6.17 | 0.107 | 0.45 | 7.87 | 7.22 | 1.71 | 0.293 | 0.14 | | | < 1 | 3 | 5 | | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | 54.0 | | | |
| BIR-1a Meas | | | 47.32 | 15.75 | 11.12 | 0.172 | 9.97 | 13.21 | 1.74 | 0.02 | 0.947 | 0.04 | | | 43 | < 1 | 324 | 380 | 53 | 170 | 130 | 70 | 15 | | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | | | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | 1090 | 99 | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | 1050 | 99 | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | | 25 | 80 | 2620 | 7390 | 25 | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | 30 | | | 900 | 16 | 11 | |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | 30 | | | 960.000 | 16.5 | 11.2 | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 18 | | 170 | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 18.1 | | 169 | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 50 | | 420 | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 48.8 | | 434 | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | < 20 | | < 20 | < 10 | < 30 | 16 | 3 |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | 2.83 | | 1.67 | 2.68 | 30.6 | 16.1 | 1.88 |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1190 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1170 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 231 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 248 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 258 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 238 | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 240 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 239 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 986 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 964 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 959 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 877 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 1010 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 1030 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 238 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 228 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 260 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92563 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92563 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92568 Orig | 0.50 | 12.54 | 0.29 | 32.12 | 0.770 | 11.70 | 17.87 | 0.03 | 0.17 | 1.249 | 4.35 | 17.32 | 98.41 | 22 | < 1 | 725 | < 20 | 3 | < 20 | < 10 | 160 | 10 | 3 | | |
| 92568 Dup | 0.49 | 12.44 | 0.28 | 32.16 | 0.767 | 11.64 | 17.79 | 0.03 | 0.17 | 1.278 | 4.28 | 17.32 | 98.16 | 22 | < 1 | 727 | < 20 | 3 | < 20 | < 10 | 150 | 10 | 2 | | |
| 92551 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92551 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92559 Orig | 0.50 | 12.70 | 1.94 | 11.28 | 0.923 | 12.80 | 22.75 | 0.48 | 1.61 | 0.605 | 0.12 | 33.27 | 98.47 | 30 | 10 | 109 | 330 | 35 | 260 | 40 | 240 | 11 | 1 | | |
| 92559 Dup | 0.50 | 12.58 | 1.93 | 11.11 | 0.912 | 12.38 | 22.14 | 0.48 | 1.62 | 0.588 | 0.11 | 33.27 | 97.12 | 29 | 9 | 104 | 320 | 36 | 250 | 50 | 270 | 10 | 1 | | |
| 92488 Orig | 7 | 6.95 | | | | | | | | | | | | | | | | | | | | | | | |
| 92488 Dup | 9 | 6.81 | | | | | | | | | | | | | | | | | | | | | | | |
| 92365 Orig | 1.43 | 3.38 | 0.19 | 11.36 | 1.504 | 12.00 | 28.82 | 0.04 | 0.09 | 0.327 | 4.54 | 35.20 | 97.46 | 82 | 12 | 85 | < 20 | < 1 | < 20 | < 10 | 530 | 22 | 4 | | |
| 92365 Dup | 1.42 | 3.40 | 0.20 | 11.37 | 1.503 | 11.95 | 28.59 | 0.04 | 0.09 | 0.325 | 4.57 | 35.20 | 97.23 | 82 | 12 | 84 | < 20 | < 1 | < 20 | < 10 | 510 | 23 | 4 | | |
| 92489 Orig | 15.1 | 4.80 | 0.15 | 11.08 | 2.153 | 13.51 | 25.58 | 0.02 | 0.08 | 0.019 | 0.45 | 25.07 | 82.91 | 90 | 3 | 20 | < 20 | < 1 | < 20 | 30 | 880 | 25 | 4 | | |
| 92489 Dup | 15.8 | 4.72 | 0.15 | 11.11 | 2.159 | 13.58 | 25.61 | 0.02 | 0.08 | 0.019 | 0.45 | 25.07 | 82.96 | 92 | 3 | 19 | < 20 | < 1 | < 20 | 30 | 880 | 25 | 5 | | |
| 92489 Orig | 13.7 | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | 30 | 880 | 25 | 4 | | |
| 92489 Dup | 15.0 | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | 30 | 880 | 25 | 5 | | |
| 92489 Orig | 0.66 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Dup | 0.66 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Orig | 15.4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Dup | 15.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92493 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92493 Dup | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92372 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92372 Dup | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92374 Orig | 0.13 | 1.15 | 0.10 | 12.45 | 1.378 | 13.86 | 25.13 | 0.02 | 0.08 | 0.229 | 0.40 | 40.65 | 95.44 | 65 | 6 | 74 | < 20 | < 1 | < 20 | < 10 | 1120 | 23 | 5 | | |
| 92374 Dup | 0.14 | 1.18 | 0.10 | 12.66 | 1.403 | 14.33 | 25.50 | 0.02 | 0.08 | 0.231 | 0.41 | 40.65 | 96.58 | 66 | 6 | 76 | < 20 | < 1 | < 20 | < 10 | 1120 | 23 | 4 | | |
| 92978 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92978 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-----|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
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| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | </ | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | 140 | 16 | 34 | | | | | 1.1 | | 107 | | 4.1 | | | 4.8 | | 0.53 | | | | | |
| DNC-1 Cert | | | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | |
| GBW 07113 Meas | | | 41 | 45 | 374 | | | | | | | 503 | | | | | | | | | | | | |
| GBW 07113 Cert | | | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | |
| LKSD-3 Meas | 27 | 72 | | | | < 2 | 2.7 | | 3 | 1.2 | 2.3 | | | 50.9 | 97.1 | | 42.4 | 7.8 | | | 0.9 | 4.7 | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | | | 1.00 | 4.90 | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| MA-N (Depleted) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| MA-N (Depleted) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | < 5 | 20 | 189 | 19 | 81 | < 2 | < 0.5 | | | 0.8 | 0.9 | 174 | < 0.4 | 11.6 | 25.8 | | 13.1 | 3.3 | 1.03 | | 0.6 | 3.8 | 0.8 | 2.1 |
| W-2a Cert | 1.20 | 21.0 | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 |
| SY-4 Meas | | | 1206 | 117 | 567 | | | | | | | 348 | | | | | | | | | | | | |
| SY-4 Cert | | | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2160 | 3320 | | 1120 | 164 | 44.2 | 135 | 14.8 | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | |
| BIR-1a Meas | < 5 | | 106 | 13 | 17 | | | | | 0.7 | | 8 | | | 2.3 | | 2.4 | 1.1 | 0.54 | 1.8 | | | | |
| BIR-1a Cert | 0.44 | | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | 1.9 | | 2.5 | 1.1 | 0.55 | 2.0 | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2370 | 197 | | 1580 | | | 220 | 34.3 | 184 | 35.7 | 96.5 |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 |
| ZW-C Meas | | 8500 | | | | | | | 1300 | 4.2 | 260 | | | | | | | | | | | | | |
| ZW-C Cert | | 8500 | | | | | | | 1300 | 4.2 | 260 | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | 270 | 16.7 | | | 180 | | | 80.3 | 46.5 | 91.9 | 9.83 | 37.2 | 7.7 | 1.74 | 7.2 | 1.1 | 6.3 | 1.2 | 3.4 |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 70 | 505 | | | | | 1.3 | 1.3 | 1700 | 3.3 | 43.8 | | | 25.1 | 63.4 | 7.72 | 31.7 | 12.4 | | 14.4 | 3.2 | 20.7 | 4.3 | 12.6 |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | 1.8 | 1.3 | 1701.000 | 3.1 | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 |
| OREAS 100a (Fusion) Meas | | | | | | 24 | | | | | | | | 271 | 490 | 44.0 | 143 | 23.2 | 3.40 | 20.8 | 3.5 | 21.6 | 4.7 | 13.6 |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 |
| OREAS 101a (Fusion) Meas | | | | | | 21 | | | | | | | | 816 | 1370 | 123 | 374 | 47.9 | 8.30 | | 5.3 | 30.7 | 6.2 | 18.1 |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 |
| JR-1 Meas | 17 | 247 | | | | 3 | < 0.5 | < 0.2 | 3 | 1.5 | 20.8 | | 0.6 | 21.4 | 51.6 | 5.79 | 23.1 | 5.7 | 0.26 | 5.5 | 1.0 | 6.1 | 1.3 | 3.9 |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | 1.11 | 3.61 |
| NCS DC86318 Meas | | | | | | | | | | | | | | 2030 | 441 | 760 | 3340 | 1760 | 19.3 | 2140 | 481 | 3070 | 569 | 1690 |
| NCS DC86318 Cert | | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | 3220 | 560 | 1750 |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |

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Quality Control

| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-----|-----|------|-----|-----|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--|
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 21300 | 27400 | 2270 | 6690 | 552 | 91.5 | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92563 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92563 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92568 Orig | < 5 | 6 | 1523 | 43 | 674 | < 2 | 2.0 | < 0.2 | 11 | < 0.5 | < 0.5 | 86 | < 0.4 | 227 | 554 | 68.3 | 256 | 38.9 | 9.60 | 25.3 | 2.7 | 11.9 | 1.7 | 4.2 | |
| 92568 Dup | < 5 | 7 | 1514 | 43 | 669 | < 2 | 1.7 | < 0.2 | 11 | < 0.5 | < 0.5 | 86 | < 0.4 | 231 | 562 | 69.4 | 254 | 37.1 | 9.41 | 23.9 | 2.5 | 12.0 | 1.7 | 4.3 | |
| 92551 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92551 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92559 Orig | < 5 | 20 | 1391 | 79 | 56 | 10 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 124 | < 0.4 | 2190 | 3760 | 315 | 921 | 94.8 | 24.4 | 78.6 | 7.1 | 25.5 | 3.2 | 6.8 | |
| 92559 Dup | < 5 | 20 | 1385 | 79 | 47 | 11 | < 0.5 | < 0.2 | 5 | < 0.5 | < 0.5 | 123 | < 0.4 | 2130 | 3670 | 308 | 908 | 93.2 | 24.0 | 75.6 | 6.8 | 25.1 | 3.2 | 7.0 | |
| 92488 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92488 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92365 Orig | 15 | 2 | 3165 | 493 | 82 | 11 | < 0.5 | < 0.2 | 23 | < 0.5 | < 0.5 | 215 | 2.0 | 2550 | 4500 | 555 | 1900 | 372 | 106 | 280 | 33.0 | 144 | 18.5 | 36.3 | |
| 92365 Dup | 14 | 2 | 3141 | 499 | 89 | 11 | < 0.5 | < 0.2 | 23 | < 0.5 | < 0.5 | 215 | 1.8 | 2470 | 4400 | 528 | 1850 | 362 | 104 | 273 | 32.9 | 144 | 18.4 | 35.9 | |
| 92489 Orig | 17 | 5 | 1521 | 163 | 24 | 20 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 255 | 5.1 | 2160 | 5000 | 677 | 2240 | 302 | 67.2 | 154 | 11.9 | 44.4 | 5.4 | 10.5 | |
| 92489 Dup | 16 | 5 | 1533 | 166 | 26 | 20 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 258 | 3.7 | 2300 | 5220 | 684 | 2330 | 310 | 68.3 | 159 | 11.9 | 44.7 | 5.5 | 11.1 | |
| 92489 Orig | 17 | 5 | | | 20 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | | 5.1 | 2160 | 5000 | 677 | 2240 | 302 | 67.2 | 154 | 11.9 | 44.4 | 5.4 | 10.5 | |
| 92489 Dup | 16 | 5 | | | 20 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | | 3.7 | 2300 | 5220 | 684 | 2330 | 310 | 68.3 | 159 | 11.9 | 44.7 | 5.5 | 11.1 | |
| 92489 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92489 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92493 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92493 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92372 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92372 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92374 Orig | 21 | 2 | 3564 | 223 | 19 | 6 | < 0.5 | 0.2 | 21 | < 0.5 | < 0.5 | 175 | 1.6 | 2330 | 4620 | 584 | 2100 | 382 | 97.9 | 222 | 19.7 | 71.2 | 8.7 | 16.9 | |
| 92374 Dup | 17 | 2 | 3577 | 228 | 18 | 6 | < 0.5 | 0.3 | 22 | < 0.5 | < 0.5 | 177 | 1.7 | 2370 | 4750 | 593 | 2120 | 389 | 98.5 | 227 | 20.0 | 73.2 | 8.9 | 19.1 | |
| 92978 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92978 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | < 5 | < 2 | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |

| | | | | | | | | | | | |
|-----------------------------|-------|-------|-------|------|---------|-------|----------|------|-------|-------|-------|
| NIST 694 Meas | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | |
| DNC-1 Meas | | 1.9 | | | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | |
| LKSD-3 Meas | | 2.7 | 0.38 | 4.4 | < 1 | | | 10.9 | 4.6 | | |
| LKSD-3 Cert | | 2.70 | 0.400 | 4.80 | 2.00 | | | 11.4 | 4.60 | | |
| AC-E Meas | | | | | | | | | | | 0.015 |
| AC-E Cert | | | | | | | | | | | 0.016 |
| MA-N (Depleted) Meas | | | | | | | | | | 0.035 | |
| MA-N (Depleted) Cert | | | | | | | | | | 0.035 | |
| OKA-1 Meas | | | | | | | | | | | 0.537 |
| OKA-1 Cert | | | | | | | | | | | 0.529 |
| W-2a Meas | 0.33 | 2.1 | 0.30 | 2.4 | 2 | 0.1 | 9 | 2.3 | 0.5 | | |
| W-2a Cert | 0.380 | 2.10 | 0.330 | 2.60 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 | | |
| SY-4 Meas | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | |
| CTA-AC-1 Meas | | 10.6 | 1.10 | 1.4 | | | | 23.7 | 4.3 | | |
| CTA-AC-1 Cert | | 11.4 | 1.08 | 1.13 | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | | 1.7 | 0.24 | 0.6 | | | < 5 | | | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | 3 | | | | |
| NCS DC86312 Meas | 14.4 | 87.2 | 12.1 | | | | | 26.4 | | | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | 23.6 | | | |
| ZW-C Meas | | | | | 332 | 34.0 | | | | 0.009 | |
| ZW-C Cert | | | | | 320 | 34 | | | | 0.010 | |
| VS-N Meas | | | | | | | | | | 0.097 | 0.102 |
| VS-N Cert | | | | | | | | | | 0.098 | 0.10 |
| NCS DC70014 Meas | 0.52 | 3.3 | 0.48 | | | | 27200 | | | | |
| NCS DC70014 Cert | 0.57 | 3.3 | 0.50 | | | | 27200.00 | | | | |
| NCS DC86316 Meas | | | | 712 | | | | | | | |
| NCS DC86316 Cert | | | | 712 | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.28 | 15.9 | 2.25 | | 2200 | | | 30.2 | | | |
| NCS DC70009 (GBW07241) Cert | 2.2 | 14.9 | 2.4 | | 2200.00 | | | 28.3 | | | |
| OREAS 100a (Fusion) Meas | 2.24 | 14.5 | 2.04 | | | | | 50.3 | 139 | | |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | 2.78 | 17.4 | | | | | | 34.6 | 421 | | |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | | | | | | 36.6 | 422 | | |
| JR-1 Meas | 0.68 | 4.7 | 0.69 | 4.4 | | 1.6 | 21 | 27.5 | 9.5 | | |
| JR-1 Cert | 0.67 | 4.55 | 0.71 | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 | | |
| NCS DC86318 Meas | 276 | 1800 | 268 | | | | | | | | |
| NCS DC86318 Cert | 270 | 1840 | 260.0 | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |

| | | | | | | | | | | | |
|---------------------|--------|-------|--------|-------|-----|-------|-----|-------|-------|---------|-------|
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | 920 | | | |
| USZ 42-2006 Cert | | | | | | | | 946 | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | |
| 92563 Orig | | | | | | | | | | | |
| 92563 Dup | | | | | | | | | | | |
| 92568 Orig | 0.54 | 3.2 | 0.54 | 3.7 | 3 | < 0.1 | 88 | 222 | 171 | 0.022 | 0.239 |
| 92568 Dup | 0.52 | 3.3 | 0.55 | 3.7 | 3 | < 0.1 | 85 | 225 | 171 | 0.022 | 0.238 |
| 92551 Orig | | | | | | | | | | | |
| 92551 Dup | | | | | | | | | | | |
| 92559 Orig | 0.74 | 4.0 | 0.57 | 1.8 | 8 | 0.1 | 22 | 244 | 0.6 | | |
| 92559 Dup | 0.78 | 4.3 | 0.60 | 1.1 | 7 | 0.1 | 25 | 234 | 0.5 | | |
| 92488 Orig | | | | | | | | | | | |
| 92488 Dup | | | | | | | | | | | |
| 92365 Orig | 3.89 | 21.3 | 2.85 | 1.5 | 7 | 0.3 | 202 | 817 | 2.6 | 0.003 | 0.114 |
| 92365 Dup | 3.86 | 21.2 | 2.85 | 1.5 | 6 | 0.2 | 200 | 790 | 2.4 | < 0.003 | 0.115 |
| 92489 Orig | 1.18 | 6.2 | 0.80 | 0.7 | < 1 | 0.2 | 506 | 873 | 0.2 | < 0.003 | 0.008 |
| 92489 Dup | 1.19 | 6.5 | 0.85 | 0.8 | 4 | 0.2 | 479 | 873 | 0.2 | < 0.003 | 0.007 |
| 92489 Orig | 1.18 | 6.2 | 0.80 | 0.7 | < 1 | 0.2 | 506 | 873 | 0.2 | | |
| 92489 Dup | 1.19 | 6.5 | 0.85 | 0.8 | 4 | 0.2 | 479 | 873 | 0.2 | | |
| 92489 Orig | | | | | | | | | | | |
| 92489 Dup | | | | | | | | | | | |
| 92489 Orig | | | | | | | | | | | |
| 92489 Dup | | | | | | | | | | | |
| 92493 Orig | | | | | | | | | | | |
| 92493 Dup | | | | | | | | | | | |
| 92372 Orig | | | | | | | | | | | |
| 92372 Dup | | | | | | | | | | | |
| 92374 Orig | 2.06 | 12.2 | 1.71 | 0.7 | 2 | 0.2 | 274 | 892 | < 0.1 | < 0.003 | 0.051 |
| 92374 Dup | 2.08 | 12.1 | 1.76 | 0.7 | 2 | 0.3 | 310 | 883 | < 0.1 | < 0.003 | 0.052 |
| 92978 Orig | | | | | | | | | | | |
| 92978 Dup | | | | | | | | | | | |
| Method Blank Method | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| Blank | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | |
| Blank | | | | | | | | | | | |



Date Submitted: 19-Sep-11
Invoice No.: A11-10589 (i)
Invoice Date: 02-Dec-11
Your Reference: BATCH #12

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT **A11-10589 (i)**

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized and somewhat illegible due to the cursive nature of the writing.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A11-10589 (i) rev 4

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92944 | < 5 | 0.27 | 21.71 | 2.03 | 8.70 | 0.337 | 2.35 | 34.51 | 0.03 | 0.07 | 1.732 | 2.62 | 24.51 | 98.60 | 6 | 3 | 196 | < 20 | 12 | < 20 | 10 | 130 | 8 | 1 |
| 92945 | < 5 | 0.37 | 8.50 | 1.31 | 2.05 | 0.175 | 2.03 | 45.37 | 0.03 | 0.17 | 1.233 | 3.34 | 33.41 | 97.61 | 6 | 5 | 253 | < 20 | 8 | < 20 | < 10 | 140 | 9 | < 1 |
| 92946 | < 5 | 2.61 | 11.42 | 1.38 | 10.10 | 0.988 | 12.14 | 26.00 | 0.06 | 1.00 | 0.378 | 0.24 | 33.07 | 96.78 | 71 | 17 | 124 | 120 | 12 | 40 | < 10 | 260 | 8 | 1 |
| 92947 | 8 | 0.28 | 4.89 | 0.38 | 8.92 | 1.528 | 13.76 | 25.41 | 0.02 | 0.25 | 0.080 | 0.80 | 37.89 | 93.94 | 52 | 12 | 56 | < 20 | 7 | < 20 | < 10 | 1480 | 17 | 3 |
| 92948 | 6 | 0.73 | 11.08 | 0.81 | 8.14 | 0.941 | 13.51 | 24.49 | 0.05 | 0.61 | 0.109 | 0.33 | 36.19 | 96.25 | 51 | 40 | 141 | < 20 | 2 | < 20 | < 10 | 500 | 11 | 1 |
| 92949 | < 5 | 0.12 | 26.99 | 1.57 | 7.75 | 0.807 | 9.96 | 18.73 | 0.13 | 0.55 | 0.344 | 0.77 | 28.35 | 95.94 | 156 | 34 | 73 | 60 | 11 | 60 | < 10 | 440 | 14 | 2 |
| 92950 | < 5 | 0.20 | 14.85 | 1.88 | 8.81 | 0.920 | 12.62 | 22.49 | 0.04 | 0.82 | 0.446 | 0.80 | 33.55 | 97.23 | 105 | 49 | 85 | 110 | 15 | 70 | 10 | 420 | 9 | 1 |
| 92951 | < 5 | 0.01 | 0.50 | 0.11 | 16.50 | 0.755 | 12.58 | 22.78 | 0.02 | 0.01 | 0.031 | 1.44 | 35.26 | 89.99 | 11 | 1 | 53 | 20 | 57 | 80 | 40 | 120 | 39 | 9 |
| 92952 | < 5 | 1.14 | 0.59 | 0.15 | 5.26 | 0.384 | 10.26 | 37.19 | 0.10 | 0.05 | 0.113 | 14.56 | 27.73 | 96.38 | 21 | 5 | 192 | < 20 | 8 | < 20 | < 10 | 60 | 7 | 2 |
| 92953 | < 5 | 1.24 | 13.33 | 0.13 | 24.36 | 2.941 | 8.32 | 16.73 | 0.02 | 0.05 | 0.035 | 0.37 | 30.46 | 96.75 | 18 | 12 | 39 | < 20 | 13 | < 20 | < 10 | 1690 | 16 | 3 |
| 92954 | < 5 | 0.95 | 18.85 | 0.47 | 11.70 | 1.613 | 10.65 | 20.41 | 0.04 | 0.35 | 0.277 | 0.80 | 30.18 | 95.35 | 24 | 8 | 57 | < 20 | 9 | < 20 | < 10 | 1950 | 23 | 4 |
| 92955 | < 5 | 31.0 | 7.50 | 0.21 | 4.27 | 0.332 | 2.91 | 53.51 | 0.02 | 0.13 | 0.073 | 1.70 | 9.50 | 80.17 | 21 | 57 | 37 | < 20 | 8 | < 20 | < 10 | 5540 | 20 | 5 |
| 92956 | < 5 | 0.44 | 8.50 | 2.28 | 9.67 | 0.898 | 13.00 | 25.21 | 0.25 | 0.76 | 0.268 | 1.21 | 35.89 | 97.92 | 36 | 34 | 82 | 70 | 14 | 50 | 30 | 270 | 11 | 1 |
| 92957 | < 5 | 1.44 | 24.69 | 4.32 | 11.49 | 0.921 | 8.62 | 19.83 | 1.15 | 1.61 | 0.654 | 1.13 | 24.82 | 99.23 | 50 | 22 | 121 | 150 | 15 | 70 | 20 | 340 | 15 | 2 |
| 92958 | < 5 | 0.43 | 7.20 | 1.15 | 14.01 | 0.744 | 12.30 | 25.28 | 0.20 | 0.32 | 0.178 | 2.32 | 28.44 | 92.14 | 30 | 4 | 77 | 20 | 145 | 60 | 60 | 300 | 7 | 1 |
| 92959 | < 5 | 0.12 | 24.72 | 0.88 | 6.76 | 0.653 | 11.49 | 21.37 | 0.05 | 0.33 | 0.184 | 0.44 | 31.80 | 98.67 | 20 | 3 | 39 | 30 | 8 | < 20 | < 10 | 80 | 2 | < 1 |
| 92986 | < 5 | 1.26 | 10.26 | 2.83 | 7.67 | 0.495 | 13.90 | 26.04 | 0.47 | 1.95 | 0.115 | 1.72 | 32.59 | 98.05 | 16 | 19 | 56 | < 20 | 7 | < 20 | < 10 | 140 | 16 | < 1 |
| 92987 | < 5 | 0.84 | 3.25 | 0.36 | 21.56 | 0.677 | 8.22 | 25.94 | 0.07 | 0.21 | 0.118 | 9.17 | 28.58 | 98.16 | 33 | 1 | 40 | < 20 | 12 | < 20 | < 10 | 180 | 11 | 2 |
| 92988 | < 5 | 0.14 | 19.83 | 3.58 | 11.79 | 0.647 | 8.28 | 18.30 | 0.11 | 3.01 | 0.216 | 0.10 | 25.80 | 91.67 | 32 | 3 | 59 | < 20 | 30 | < 20 | < 10 | 910 | 21 | < 1 |
| 92989 | < 5 | 0.75 | 5.11 | 0.40 | 9.45 | 0.569 | 10.57 | 31.97 | 0.05 | 0.31 | 0.083 | 7.91 | 33.29 | 99.71 | 24 | < 1 | 45 | < 20 | 8 | < 20 | < 10 | 100 | 4 | < 1 |
| 92990 | < 5 | 0.29 | 1.73 | 0.15 | 11.35 | 1.177 | 12.17 | 28.29 | 0.03 | 0.09 | 0.035 | 2.94 | 40.53 | 98.48 | 24 | 2 | 81 | < 20 | 5 | < 20 | < 10 | 200 | 23 | 3 |
| 92991 | < 5 | 1.14 | 7.56 | 1.32 | 6.21 | 0.336 | 7.37 | 37.77 | 0.15 | 1.03 | 0.423 | 12.66 | 21.47 | 96.30 | 14 | 10 | 153 | < 20 | 2 | < 20 | < 10 | 100 | 8 | 1 |
| 92992 | 6 | 7.11 | 1.00 | 0.09 | 13.70 | 1.493 | 11.46 | 30.80 | 0.03 | 0.04 | 0.249 | 1.00 | 33.76 | 93.63 | 62 | 18 | 90 | < 20 | 7 | < 20 | < 10 | 1120 | 26 | 5 |
| 92993 | 23 | 0.22 | 2.90 | 0.85 | 6.87 | 0.753 | 16.18 | 27.12 | 0.10 | 0.63 | 0.029 | 0.06 | 42.32 | 97.81 | 7 | 2 | 22 | < 20 | 6 | < 20 | < 10 | 50 | 3 | < 1 |
| 92994 | < 5 | 0.34 | 36.12 | 8.49 | 12.10 | 0.162 | 12.46 | 7.58 | 2.43 | 3.71 | 2.044 | 0.22 | 13.06 | 98.38 | 30 | 15 | 268 | 870 | 64 | 380 | 140 | 120 | 15 | 2 |
| 92995 | 5 | 0.51 | 37.18 | 10.99 | 10.92 | 0.213 | 4.55 | 10.82 | 3.83 | 4.06 | 2.587 | 3.35 | 10.29 | 98.79 | 24 | 4 | 262 | 160 | 28 | 70 | 60 | 80 | 15 | < 1 |
| 92996 | < 5 | 0.14 | 44.44 | 14.37 | 12.28 | 0.214 | 4.42 | 6.96 | 4.34 | 1.93 | 2.625 | 0.77 | 7.04 | 99.38 | 16 | 9 | 200 | 70 | 35 | 60 | 100 | 130 | 20 | 1 |
| 92997 | < 5 | 0.31 | 9.65 | 1.67 | 9.41 | 0.666 | 11.19 | 28.79 | 0.16 | 0.75 | 0.159 | 2.96 | 34.06 | 99.46 | 19 | 7 | 116 | < 20 | 10 | < 20 | < 10 | 160 | 7 | 1 |
| 92998 | < 5 | 0.22 | 30.20 | 9.10 | 10.93 | 0.295 | 8.32 | 13.47 | 4.07 | 1.46 | 1.875 | 0.27 | 19.78 | 99.78 | 33 | 9 | 291 | 130 | 35 | 80 | 130 | 70 | 13 | 1 |
| 92999 | 10 | 0.49 | 45.30 | 14.41 | 12.46 | 0.135 | 6.00 | 4.12 | 3.96 | 5.75 | 3.040 | 0.32 | 4.68 | 100.2 | 28 | 17 | 284 | 50 | 38 | 60 | 70 | 130 | 21 | 1 |
| 93000 | < 5 | 0.84 | 13.48 | 3.73 | 10.68 | 0.413 | 5.96 | 28.86 | 0.67 | 2.37 | 0.948 | 10.85 | 21.42 | 99.39 | 26 | 26 | 195 | 200 | 21 | 40 | 30 | 170 | 7 | < 1 |
| 92960 | < 5 | 0.55 | 26.06 | 6.85 | 12.69 | 0.526 | 9.14 | 15.96 | 1.22 | 2.08 | 1.245 | 0.87 | 23.16 | 99.78 | 43 | 32 | 183 | 100 | 21 | 70 | 40 | 210 | 14 | 2 |
| 92961 | < 5 | 3.24 | 10.45 | 2.86 | 9.90 | 1.579 | 10.56 | 26.81 | 0.33 | 1.03 | 0.445 | 2.10 | 28.94 | 94.99 | 91 | 13 | 58 | 20 | 20 | 20 | 20 | 220 | 17 | 2 |
| 92962 | 6 | 6.22 | 1.31 | 0.39 | 8.11 | 1.990 | 11.72 | 34.29 | 0.03 | 0.16 | 0.027 | 1.12 | 35.58 | 94.74 | 110 | 4 | 22 | < 20 | 2 | < 20 | < 10 | 180 | 20 | 3 |
| 92963 | 6 | 7.51 | 1.33 | 0.43 | 6.66 | 1.305 | 12.58 | 35.45 | 0.03 | 0.17 | 0.013 | 2.06 | 34.49 | 94.51 | 91 | 10 | 29 | < 20 | < 1 | < 20 | < 10 | 210 | 17 | 2 |
| 92964 | < 5 | 20.1 | 0.98 | 0.32 | 6.61 | 1.272 | 6.44 | 44.57 | 0.03 | 0.13 | 0.023 | 3.94 | 19.87 | 84.19 | 255 | 10 | 61 | < 20 | 7 | < 20 | < 10 | 750 | 48 | 7 |
| 92965 | < 5 | 0.88 | 5.33 | 1.68 | 10.51 | 0.719 | 13.63 | 26.95 | 0.05 | 1.23 | 0.404 | 0.63 | 35.78 | 96.92 | 66 | 5 | 137 | 60 | 16 | 20 | 10 | 90 | 8 | < 1 |
| 92315 | < 5 | 0.68 | 1.26 | 0.37 | 6.68 | 0.452 | 13.50 | 33.14 | 0.09 | 0.21 | 0.062 | 6.96 | 35.74 | 98.46 | 18 | 17 | 99 | < 20 | 7 | < 20 | < 10 | 150 | 6 | 1 |
| 92926 | < 5 | 0.77 | 11.32 | 3.26 | 12.03 | 0.772 | 13.25 | 22.81 | 0.06 | 2.59 | 0.176 | 0.54 | 32.74 | 99.53 | 22 | 7 | 95 | < 20 | 20 | < 20 | 10 | 230 | 9 | < 1 |
| 92927 | < 5 | 1.08 | 4.19 | 0.76 | 8.92 | 0.514 | 11.42 | 31.95 | 0.06 | 0.65 | 0.057 | 8.58 | 29.50 | 96.59 | 19 | 9 | 47 | < 20 | 24 | < 20 | 10 | 180 | 5 | < 1 |
| 92928 | < 5 | 0.59 | 0.57 | 0.13 | 8.05 | 0.892 | 13.09 | 32.97 | 0.05 | 0.07 | 0.009 | 6.15 | 37.04 | 99.04 | 9 | < 1 | 39 | < 20 | 4 | < 20 | < 10 | 140 | 4 | < 1 |
| 92929 | < 5 | 0.32 | 0.72 | 0.13 | 11.41 | 1.148 | 12.16 | 29.00 | 0.03 | 0.07 | 0.040 | 3.23 | 38.39 | 96.33 | 19 | 1 | 61 | < 20 | 5 | < 20 | < 10 | 270 | 12 | 1 |
| 92930 | < 5 | 0.23 | 1.05 | 0.16 | 10.22 | 1.150 | 13.69 | 28.27 | 0.03 | 0.10 | 0.030 | 1.87 | 40.13 | 96.72 | 27 | 2 | 64 | < 20 | 5 | < 20 | < 10 | 320 | 20 | 3 |
| 92931 | < 5 | 0.30 | 9.96 | 2.54 | 9.39 | 0.761 | 13.31 | 24.08 | 0.06 | 2.26 | 0.117 | 0.08 | 36.10 | 98.67 | 15 | 2 | 56 | < 20 | 14 | < 20 | 10 | 130 | 10 | < 1 |
| 92932 | < 5 | 1.43 | 3.05 | 0.18 | 11.33 | 1.102 | 11.44 | 28.86 | 0.05 | 0.08 | 0.045 | 3.29 | 35.96 | 95.39 | 23 | 1 | 73 | < 20 | 12 | < 20 | < 10 | 210 | 66 | 8 |
| 92933 | < 5 | 0.36 | 4.51 | 1.18 | 11.63 | 0.848 | 13.06 | 25.79 | 0.04 | 0.96 | 0.163 | 0.72 | 37.30 | 96.20 | 16 | 2 | 42 | < 20 | 18 | < 20 | 10 | 310 | 14 | 2 |
| 92934 | < 5 | 0.88 | 0.75 | 0.20 | 5.58 | 0.575 | 13.60 | 34.14 | 0.05 | 0.14 | 0.013 | 8.08 | 35.71 | 98.84 | 10 | 2 | 17 | < 20 | 9 | < 20 | < 10 | 90 | 5 | 1 |
| 92935 | < 5 | 0.42 | 3.58 | 0.81 | 42.19 | 0.557 | 8.54 | 12.40 | 0.06 | 0.63 | 0.105 | 1.89 | 23.65 | 94.40 | 45 | 3 | 70 | < 20 | 31 | < 20 | < 10 | 230 | 10 | 1 |
| 92936 | < 5 | 1.85 | 1.22 | 0.34 | 4.96 | 0.690 | 17.49 | 31.08 | 0.04 | 0.26 | 0.019 | 0.70 | 42.33 | 99.13 | 9 | 27 | 29 | < 20 | 6 | < 20 | < 10 | 140 | 9 | 2 |
| 92937 | < 5 | 0.69 | 1.11 | 0.32 | 8.01 | 0.384 | 15.04 | 30.31 | 0.04 | 0.25 | 0.057 | 2.09 | 40.84 | 98.45 | 26 | 5 | 106 | < 20 | 16 | < 20 | 10 | 140 | 7 | 2 |
| 92938 | 14 | 0.08 | 1.54 | 0.32 | 47.84 | 2.482 | 5.67 | 7.64 | 0.02 | 0.24 | 0.014 | 0.14 | 25.84 | 91.75 | 8 | 2 | 21 | < 20 | 38 | < 20 | 100 | 1340 | 14 | 4 |
| 92939 | < 5 | 0.76 | 0.80 | | | | | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92940 | 5 | 1.07 | 1.38 | 0.35 | 9.44 | 0.328 | 10.41 | 34.54 | 0.08 | 0.22 | 0.102 | 10.49 | 29.38 | 96.73 | 20 | 6 | 68 | < 20 | 23 | < 20 | 10 | 200 | 10 | 2 |
| 92941 | < 5 | 0.08 | 0.60 | 0.15 | 47.54 | 3.074 | 5.61 | 6.00 | 0.02 | 0.10 | 0.014 | 0.97 | 32.06 | 96.12 | 7 | 3 | 12 | < 20 | 31 | < 20 | < 10 | 1300 | 36 | 8 |
| 92942 | < 5 | 0.41 | 0.58 | 0.17 | 10.80 | 0.910 | 12.21 | 30.45 | 0.04 | 0.13 | 0.067 | 3.94 | 38.29 | 97.58 | 23 | 4 | 48 | < 20 | 13 | < 20 | < 10 | 210 | 14 | 2 |
| 92943 | < 5 | 1.10 | 7.85 | 2.21 | 7.69 | 0.526 | 14.25 | 26.97 | 0.06 | 1.99 | 0.118 | 0.81 | 35.89 | 98.38 | 25 | 3 | 59 | < 20 | 16 | 30 | < 10 | 170 | 9 | 2 |
| 92966 | 12 | 27.2 | 2.15 | 0.67 | 6.72 | 1.187 | 2.49 | 49.99 | 0.07 | 0.20 | 0.067 | 5.33 | 10.82 | 79.69 | 246 | 24 | 70 | < 20 | 16 | < 20 | 10 | 880 | 75 | 23 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92944 | < 5 | 3 | 2347 | 66 | 617 | < 2 | 2.9 | < 0.2 | 4 | < 0.5 | < 0.5 | 332 | < 0.4 | 395 | 798 | 89.9 | 358 | 52.1 | 13.3 | 33.3 | 3.9 | 16.5 | 2.8 | 6.8 |
| 92945 | < 5 | 7 | 3302 | 81 | 698 | < 2 | 3.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 388 | < 0.4 | 552 | 1150 | 114 | 435 | 61.5 | 15.5 | 39.1 | 4.6 | 19.7 | 3.3 | 8.2 |
| 92946 | 15 | 8 | 933 | 97 | 45 | 10 | < 0.5 | < 0.2 | 7 | 0.8 | < 0.5 | 288 | < 0.4 | 954 | 1710 | 168 | 666 | 115 | 30.8 | 72.6 | 7.6 | 27.4 | 3.8 | 8.9 |
| 92947 | 16 | 6 | 2233 | 213 | 106 | 9 | 0.7 | 0.2 | 3 | < 0.5 | < 0.5 | 289 | 1.0 | 2110 | 5360 | 494 | 1650 | 154 | 33.4 | 94.3 | 9.9 | 47.8 | 8.6 | 23.6 |
| 92948 | 7 | 10 | 2295 | 223 | 38 | 9 | < 0.5 | < 0.2 | 4 | 0.9 | < 0.5 | 349 | < 0.4 | 2180 | 3370 | 264 | 847 | 103 | 25.2 | 69.9 | 8.6 | 43.2 | 8.5 | 23.0 |
| 92949 | 5 | 9 | 1582 | 511 | 139 | 4 | 0.7 | < 0.2 | 6 | < 0.5 | < 0.5 | 241 | 0.5 | 3280 | 4050 | 285 | 910 | 223 | 78.8 | 224 | 31.0 | 130 | 20.7 | 44.2 |
| 92950 | < 5 | 14 | 1584 | 232 | 77 | 9 | < 0.5 | < 0.2 | 10 | < 0.5 | < 0.5 | 277 | < 0.4 | 975 | 1760 | 168 | 659 | 146 | 44.3 | 115 | 14.3 | 58.3 | 9.1 | 20.5 |
| 92951 | 27 | < 2 | 752 | 328 | 17 | 37 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 55 | < 0.4 | 5920 | 12900 | 1400 | 4930 | 565 | 126 | 316 | 36.4 | 132 | 16.6 | 24.5 |
| 92952 | 8 | < 2 | 1634 | 151 | 450 | < 2 | 2.5 | < 0.2 | 8 | 0.6 | < 0.5 | 152 | < 0.4 | 700 | 2010 | 226 | 950 | 151 | 37.7 | 91.1 | 10.2 | 41.7 | 6.7 | 14.9 |
| 92953 | 12 | < 2 | 525 | 132 | 26 | 9 | < 0.5 | 0.3 | 2 | < 0.5 | < 0.5 | 114 | 2.1 | 2220 | 4990 | 486 | 1830 | 216 | 42.0 | 94.2 | 6.6 | 25.6 | 4.6 | 13.5 |
| 92954 | 13 | 9 | 820 | 187 | 67 | 10 | < 0.5 | 0.2 | 4 | < 0.5 | < 0.5 | 204 | 0.6 | 3950 | 7620 | 760 | 2530 | 263 | 49.4 | 115 | 8.6 | 34.2 | 6.5 | 18.9 |
| 92955 | 17 | 3 | 596 | 259 | 106 | 4 | 0.6 | 0.3 | 2 | < 0.5 | < 0.5 | 173 | 0.9 | 2190 | 6290 | 767 | 2870 | 288 | 54.6 | 126 | 11.3 | 49.3 | 8.7 | 21.5 |
| 92956 | 6 | 15 | 1608 | 130 | 73 | 30 | < 0.5 | < 0.2 | 8 | < 0.5 | < 0.5 | 370 | < 0.4 | 1420 | 2580 | 242 | 907 | 120 | 26.9 | 65.5 | 7.0 | 32.0 | 5.4 | 13.6 |
| 92957 | 7 | 19 | 568 | 167 | 80 | 23 | < 0.5 | < 0.2 | 12 | < 0.5 | < 0.5 | 410 | 0.7 | 1900 | 3210 | 282 | 1010 | 128 | 31.3 | 81.0 | 9.3 | 39.4 | 6.7 | 16.2 |
| 92958 | < 5 | 10 | 1546 | 161 | 66 | 12 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 391 | < 0.4 | 731 | 1690 | 182 | 755 | 124 | 32.6 | 80.3 | 9.8 | 43.5 | 7.2 | 16.2 |
| 92959 | < 5 | 6 | 2558 | 34 | 25 | 4 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 161 | < 0.4 | 152 | 273 | 27.7 | 107 | 17.7 | 5.29 | 12.7 | 1.7 | 7.9 | 1.3 | 3.1 |
| 92986 | < 5 | 27 | 2375 | 71 | 183 | 4 | 0.8 | < 0.2 | 7 | 1.4 | < 0.5 | 551 | < 0.4 | 305 | 618 | 68.0 | 272 | 41.0 | 10.4 | 27.4 | 3.7 | 17.0 | 2.9 | 7.0 |
| 92987 | < 5 | 3 | 2018 | 101 | 283 | < 2 | 1.3 | < 0.2 | 21 | < 0.5 | < 0.5 | 67 | < 0.4 | 1740 | 3030 | 265 | 907 | 99.0 | 22.8 | 61.3 | 6.4 | 27.5 | 4.5 | 10.4 |
| 92988 | < 5 | 13 | 1655 | 29 | 1359 | 4 | | < 0.2 | 95 | 1.7 | < 0.5 | 2320 | < 0.4 | 227 | 556 | 64.1 | 257 | 36.2 | 8.70 | 17.0 | 1.5 | 5.7 | 0.9 | 2.6 |
| 92989 | < 5 | 3 | 1782 | 128 | 191 | < 2 | 1.2 | < 0.2 | 7 | < 0.5 | < 0.5 | 50 | < 0.4 | 266 | 637 | 80.5 | 370 | 79.8 | 23.6 | 60.9 | 8.2 | 35.6 | 5.6 | 12.3 |
| 92990 | 9 | < 2 | 2772 | 59 | 85 | 18 | 0.6 | < 0.2 | 3 | < 0.5 | < 0.5 | 58 | < 0.4 | 8170 | 8980 | 560 | 1560 | 213 | 58.2 | 152 | 10.3 | 25.4 | 2.7 | 5.8 |
| 92991 | 6 | 32 | 4009 | 97 | 246 | < 2 | 1.5 | < 0.2 | 8 | < 0.5 | 0.8 | 729 | < 0.4 | 447 | 1440 | 149 | 624 | 97.7 | 25.0 | 59.6 | 6.8 | 28.3 | 4.5 | 10.4 |
| 92992 | 18 | < 2 | 3072 | 300 | 29 | 5 | < 0.5 | 0.2 | 30 | < 0.5 | < 0.5 | 287 | 1.3 | 5010 | 8700 | 835 | 2890 | 526 | 140 | 313 | 29.1 | 94.6 | 11.8 | 23.5 |
| 92993 | < 5 | 11 | 2881 | 12 | 10 | 8 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 83 | < 0.4 | 109 | 228 | 25.4 | 104 | 15.1 | 3.59 | 8.4 | 0.8 | 3.2 | 0.5 | 1.2 |
| 92994 | < 5 | 74 | 401 | 28 | 186 | < 2 | 0.9 | < 0.2 | 4 | < 0.5 | 8.3 | 1897 | < 0.4 | 128 | 224 | 22.4 | 85.0 | 15.0 | 4.12 | 12.2 | 1.6 | 7.1 | 1.2 | 3.0 |
| 92995 | < 5 | 62 | 528 | 128 | 43 | < 2 | < 0.5 | < 0.2 | 4 | < 0.5 | 1.2 | 502 | < 0.4 | 63.1 | 128 | 14.6 | 65.7 | 16.7 | 6.35 | 18.5 | 3.5 | 24.0 | 5.1 | 12.6 |
| 92996 | < 5 | 38 | 667 | 40 | 326 | 2 | 1.5 | < 0.2 | 5 | < 0.5 | 2.6 | 950 | < 0.4 | 93.7 | 188 | 20.8 | 86.5 | 16.2 | 4.37 | 12.6 | 1.9 | 9.2 | 1.7 | 4.3 |
| 92997 | < 5 | 14 | 1863 | 101 | 231 | 4 | 1.1 | < 0.2 | 4 | < 0.5 | 0.8 | 278 | < 0.4 | 684 | 1350 | 131 | 515 | 79.8 | 20.9 | 50.0 | 5.6 | 23.4 | 3.9 | 9.7 |
| 92998 | < 5 | 39 | 661 | 35 | 266 | < 2 | 1.2 | < 0.2 | 4 | < 0.5 | 3.2 | 229 | < 0.4 | 317 | 544 | 53.2 | 195 | 25.7 | 6.65 | 15.7 | 1.7 | 7.2 | 1.3 | 3.4 |
| 92999 | < 5 | 105 | 330 | 40 | 214 | < 2 | 0.9 | < 0.2 | 4 | 2.9 | 1.9 | 535 | < 0.4 | 58.8 | 113 | 12.5 | 51.1 | 9.8 | 3.35 | 8.8 | 1.5 | 7.7 | 1.5 | 4.1 |
| 93000 | 7 | 14 | 1770 | 957 | 68 | 14 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 493 | 0.5 | 304 | 535 | 61.3 | 296 | 136 | 58.2 | 183 | 32.8 | 197 | 37.5 | 88.5 |
| 92960 | < 5 | 38 | 816 | 168 | 147 | 3 | 0.6 | < 0.2 | 7 | < 0.5 | 0.7 | 580 | < 0.4 | 745 | 1580 | 162 | 651 | 107 | 28.8 | 73.5 | 9.2 | 40.0 | 6.6 | 15.6 |
| 92961 | 7 | 19 | 1359 | 333 | 80 | 82 | < 0.5 | < 0.2 | 7 | < 0.5 | 0.7 | 513 | < 0.4 | 3210 | 4590 | 336 | 1080 | 187 | 56.3 | 142 | 17.8 | 77.0 | 12.6 | 30.4 |
| 92962 | 12 | 4 | 1298 | 159 | 38 | 8 | < 0.5 | < 0.2 | 3 | 0.9 | < 0.5 | 102 | 1.9 | 4180 | 7200 | 538 | 1570 | 192 | 45.7 | 119 | 9.6 | 34.7 | 5.4 | 13.6 |
| 92963 | 8 | 4 | 1395 | 169 | 17 | 3 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 157 | < 0.4 | 5490 | 6320 | 416 | 1220 | 154 | 40.5 | 117 | 10.3 | 39.1 | 6.2 | 15.5 |
| 92964 | 26 | 3 | 1178 | 360 | 26 | 169 | < 0.5 | 0.2 | 6 | 1.2 | < 0.5 | 127 | 3.5 | 11400 | 18600 | 1450 | 3870 | 438 | 105 | 275 | 21.1 | 76.7 | 12.5 | 30.6 |
| 92965 | 9 | 37 | 1352 | 87 | 1163 | < 2 | | < 0.2 | 19 | 1.3 | 0.9 | 1492 | < 0.4 | 327 | 1390 | 130 | 510 | 85.5 | 23.4 | 45.5 | 5.8 | 25.3 | 3.9 | 8.7 |
| 92315 | < 5 | 2 | 876 | 93 | 86 | < 2 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 76 | < 0.4 | 707 | 1760 | 189 | 772 | 111 | 27.0 | 64.7 | 6.9 | 27.8 | 4.3 | 9.0 |
| 92926 | < 5 | 43 | 1559 | 22 | 40 | 15 | < 0.5 | < 0.2 | 10 | < 0.5 | 0.7 | 228 | < 0.4 | 394 | 780 | 85.7 | 325 | 41.5 | 9.56 | 21.4 | 1.8 | 6.4 | 1.0 | 2.2 |
| 92927 | 6 | 12 | 2077 | 95 | 96 | 31 | 0.7 | < 0.2 | 4 | < 0.5 | < 0.5 | 206 | 0.7 | 355 | 1020 | 126 | 535 | 80.1 | 19.9 | 49.6 | 6.0 | 24.8 | 4.0 | 8.7 |
| 92928 | < 5 | < 2 | 3136 | 97 | 15 | 2 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 40 | < 0.4 | 485 | 810 | 82.8 | 318 | 63.8 | 20.6 | 56.8 | 7.6 | 31.1 | 4.6 | 8.7 |
| 92929 | < 5 | < 2 | 2563 | 50 | 73 | 36 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | 48 | < 0.4 | 3840 | 4280 | 283 | 849 | 157 | 42.8 | 99.9 | 7.3 | 19.3 | 2.3 | 5.2 |
| 92930 | 9 | 2 | 2651 | 65 | 44 | 35 | < 0.5 | < 0.2 | 3 | 1.0 | < 0.5 | 65 | < 0.4 | 6660 | 7650 | 504 | 1530 | 235 | 62.3 | 155 | 10.7 | 27.4 | 3.0 | 6.3 |
| 92931 | 11 | 20 | 1611 | 11 | 49 | 11 | < 0.5 | < 0.2 | 7 | < 0.5 | < 0.5 | 112 | < 0.4 | 247 | 460 | 48.7 | 171 | 25.4 | 6.16 | 12.6 | 1.0 | 3.4 | 0.5 | 1.3 |
| 92932 | 33 | < 2 | 3115 | 65 | 90 | 18 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 77 | < 0.4 | 9550 | 10500 | 703 | 1750 | 210 | 62.7 | 167 | 11.2 | 29.3 | 3.0 | 6.4 |
| 92933 | 16 | 16 | 1976 | 47 | 116 | 10 | < 0.5 | < 0.2 | 7 | < 0.5 | < 0.5 | 196 | < 0.4 | 744 | 1350 | 134 | 449 | 53.0 | 13.1 | 31.6 | 3.1 | 12.4 | 1.9 | 4.5 |
| 92934 | 13 | < 2 | 2914 | 127 | 18 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 70 | < 0.4 | 185 | 416 | 52.8 | 232 | 56.0 | 19.3 | 50.9 | 7.0 | 31.9 | 5.2 | 12.1 |
| 92935 | < 5 | 13 | 1381 | 32 | 1139 | < 2 | | 0.2 | 57 | 0.6 | < 0.5 | 119 | < 0.4 | 128 | 223 | 23.6 | 88.4 | 15.9 | 4.85 | 13.2 | 1.7 | 8.2 | 1.4 | 3.7 |
| 92936 | 14 | 4 | 1655 | 78 | 64 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 77 | < 0.4 | 455 | 978 | 112 | 425 | 60.9 | 17.6 | 42.2 | 4.8 | 20.3 | 3.0 | 7.3 |
| 92937 | 14 | 3 | 1425 | 174 | 72 | 10 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 97 | < 0.4 | 245 | 561 | 74.0 | 337 | 89.6 | 30.9 | 76.9 | 9.7 | 42.0 | 6.5 | 14.7 |
| 92938 | 17 | 3 | 442 | 22 | 11 | 4 | < 0.5 | 0.2 | 2 | < 0.5 | < 0.5 | 56 | 1.1 | 234 | 1130 | 209 | 951 | 107 | 21.9 | 40.0 | 2.8 | 9.1 | 1.2 | 2.5 |
| 92939 | 13 | < 2 | 1500 | 108 | 72 | 17 | < 0.5 | < 0.2 | 9 | < 0.5 | < 0.5 | 99 | < 0.4 | 287 | 627 | 78.8 | 340 | 68.0 | 19.8 | 47.4 | 5.8 | 25.6 | 4.2 | 9.8 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92940 | 15 | 3 | 2908 | 145 | 660 | < 2 | 1.8 | < 0.2 | 8 | < 0.5 | < 0.5 | 205 | < 0.4 | 358 | 813 | 99.7 | 414 | 75.8 | 23.3 | 59.3 | 7.4 | 33.8 | 5.7 | 13.7 |
| 92941 | 28 | < 2 | 423 | 76 | 50 | 19 | < 0.5 | 0.2 | 2 | < 0.5 | < 0.5 | 53 | < 0.4 | 1210 | 4010 | 511 | 1840 | 151 | 29.9 | 71.4 | 5.0 | 19.7 | 3.0 | 6.4 |
| 92942 | 15 | < 2 | 1985 | 134 | 120 | 23 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 96 | < 0.4 | 1040 | 1700 | 155 | 479 | 58.8 | 17.8 | 49.2 | 5.9 | 29.6 | 5.3 | 13.0 |
| 92943 | 12 | 42 | 1551 | 42 | 40 | 6 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 194 | < 0.4 | 393 | 746 | 80.5 | 296 | 49.2 | 13.2 | 28.3 | 2.6 | 9.8 | 1.6 | 4.0 |
| 92966 | 97 | 5 | 1078 | 504 | 35 | 103 | < 0.5 | 0.3 | 8 | 1.1 | < 0.5 | 178 | 5.7 | 14700 | 23300 | 1830 | 4890 | 549 | 145 | 389 | 30.3 | 114 | 17.9 | 45.1 |

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| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92944 | 0.77 | 4.2 | 0.61 | 4.8 | 11.7 | < 1 | < 0.1 | 23 | 29.1 | 7.4 | < 0.003 | 0.080 | 1390 |
| 92945 | 0.91 | 5.2 | 0.70 | 4.0 | 10.3 | < 1 | 0.1 | 28 | 33.4 | 10.8 | < 0.003 | 0.097 | 1550 |
| 92946 | 0.90 | 5.5 | 0.76 | 1.1 | 0.4 | 3 | 0.7 | 57 | 352 | 0.2 | < 0.003 | 0.043 | 1380 |
| 92947 | 2.68 | 13.4 | 1.77 | 2.2 | < 0.1 | 2 | 0.3 | 205 | 574 | 0.1 | < 0.003 | 0.016 | 1560 |
| 92948 | 3.10 | 17.0 | 2.40 | 0.9 | 0.2 | 4 | 0.5 | 42 | 341 | 0.5 | < 0.003 | 0.018 | 1730 |
| 92949 | 5.01 | 25.6 | 3.41 | 2.5 | 0.2 | 3 | 0.2 | 63 | 1530 | 0.4 | < 0.003 | 0.021 | 1930 |
| 92950 | 2.31 | 12.6 | 1.72 | 1.8 | 0.4 | 4 | 0.2 | 59 | 271 | 0.6 | 0.003 | 0.032 | 1510 |
| 92951 | 1.69 | 5.8 | 0.57 | 0.9 | < 0.1 | < 1 | < 0.1 | 18 | 1130 | 1.0 | < 0.003 | 0.015 | 656 |
| 92952 | 1.68 | 9.8 | 1.32 | 5.2 | 228 | 7 | 0.2 | 222 | 1310 | 397 | 0.066 | 0.695 | 477 |
| 92953 | 2.04 | 12.3 | 1.74 | 0.6 | 1.0 | < 1 | < 0.1 | 215 | 719 | 1.2 | < 0.003 | 0.006 | 763 |
| 92954 | 2.84 | 16.6 | 2.25 | 1.0 | 2.4 | 3 | 0.4 | 178 | 889 | 2.7 | < 0.003 | 0.029 | 2580 |
| 92955 | 2.75 | 14.5 | 1.96 | 3.0 | 0.4 | 2 | 0.2 | 209 | 1180 | 1.1 | < 0.003 | 0.035 | 870 |
| 92956 | 1.55 | 8.1 | 1.08 | 1.6 | < 0.1 | 2 | 0.3 | 21 | 163 | 1.2 | < 0.003 | 0.062 | 1780 |
| 92957 | 1.83 | 9.3 | 1.27 | 1.9 | 1.1 | 3 | 0.5 | 85 | 198 | 0.7 | < 0.003 | 0.049 | 1500 |
| 92958 | 1.76 | 8.9 | 1.13 | 1.3 | 4.1 | 1 | 0.1 | 30 | 49.4 | 8.7 | < 0.003 | 0.137 | 2530 |
| 92959 | 0.38 | 1.9 | 0.27 | 0.5 | 0.8 | 2 | < 0.1 | 28 | 19.9 | 0.5 | < 0.003 | 0.018 | 1160 |
| 92986 | 0.84 | 4.4 | 0.58 | 4.2 | 280 | 2 | 0.3 | 853 | 102 | 673 | 0.088 | 0.661 | 1610 |
| 92987 | 1.05 | 5.3 | 0.67 | 4.2 | 86.4 | 2 | < 0.1 | 110 | 61.0 | 105 | 0.019 | 0.117 | 1010 |
| 92988 | 0.33 | 2.1 | 0.34 | 29.2 | 1780 | 14 | 0.2 | 393 | 867 | 1620 | 0.251 | 3.936 | 445 |
| 92989 | 1.34 | 6.9 | 0.91 | 2.8 | 8.4 | < 1 | < 0.1 | 11 | 54.2 | 3.8 | 0.003 | 0.050 | 1170 |
| 92990 | 0.68 | 3.7 | 0.51 | 1.0 | 1.4 | < 1 | < 0.1 | 37 | 875 | 1.6 | < 0.003 | 0.011 | 1530 |
| 92991 | 1.10 | 5.7 | 0.76 | 3.0 | 65.1 | 2 | 0.1 | 58 | 491 | 49.5 | 0.020 | 1.810 | 1280 |
| 92992 | 2.56 | 13.3 | 1.72 | 1.2 | 2.0 | 8 | 0.2 | 152 | 830 | 0.7 | 0.003 | 0.101 | 1070 |
| 92993 | 0.16 | 1.0 | 0.15 | 0.2 | 1.7 | < 1 | < 0.1 | 20 | 12.1 | 8.4 | < 0.003 | 0.067 | 752 |
| 92994 | 0.39 | 2.4 | 0.37 | 3.7 | 2.5 | 3 | 0.3 | 15 | 31.5 | 1.0 | < 0.003 | 0.017 | 990 |
| 92995 | 1.49 | 7.8 | 1.01 | 0.8 | 2.7 | 15 | 0.2 | 22 | 184 | 2.3 | < 0.003 | 0.039 | 1520 |
| 92996 | 0.58 | 3.2 | 0.46 | 6.9 | 5.4 | 2 | 0.2 | 23 | 31.2 | 1.3 | < 0.003 | 0.020 | 904 |
| 92997 | 1.15 | 6.4 | 0.87 | 2.5 | 0.8 | 4 | < 0.1 | 29 | 116 | 3.1 | < 0.003 | 0.045 | 506 |
| 92998 | 0.44 | 2.7 | 0.43 | 5.1 | 2.2 | 8 | < 0.1 | 9 | 31.0 | 0.3 | < 0.003 | 0.032 | 621 |
| 92999 | 0.55 | 3.0 | 0.42 | 4.6 | 3.1 | 24 | 0.1 | 9 | 11.7 | 0.4 | < 0.003 | 0.037 | 691 |
| 93000 | 11.2 | 56.4 | 7.48 | 2.1 | 1.7 | 16 | < 0.1 | 117 | 602 | 19.1 | 0.003 | 0.031 | 670 |
| 92960 | 1.81 | 10.0 | 1.37 | 3.3 | 1.0 | 5 | 0.5 | 76 | 178 | 0.7 | < 0.003 | 0.076 | 1160 |
| 92961 | 4.00 | 23.8 | 3.46 | 2.0 | 0.5 | 3 | 0.5 | 50 | 1210 | 1.1 | < 0.003 | 0.018 | 1750 |
| 92962 | 1.57 | 9.3 | 1.36 | 0.9 | 0.2 | < 1 | 0.2 | 181 | 748 | 0.1 | < 0.003 | 0.004 | 1370 |
| 92963 | 1.72 | 9.9 | 1.46 | 0.6 | 0.1 | < 1 | 0.2 | 49 | 273 | 0.2 | < 0.003 | 0.007 | 1010 |
| 92964 | 4.07 | 24.5 | 3.56 | 1.4 | 0.3 | 2 | 0.3 | 301 | 1550 | 0.1 | < 0.003 | 0.008 | 1750 |
| 92965 | 1.11 | 6.5 | 0.93 | 13.7 | 286 | 10 | 0.4 | 642 | 2200 | 457 | 0.067 | 1.626 | 501 |
| 92315 | 1.00 | 5.4 | 0.76 | 1.2 | 17.4 | 1 | 0.1 | 23 | 199 | 31.1 | < 0.003 | 0.112 | 1580 |
| 92926 | 0.28 | 1.7 | 0.25 | 0.9 | 0.6 | 4 | 0.3 | 16 | 40.1 | 4.8 | < 0.003 | 0.142 | 975 |
| 92927 | 1.05 | 5.6 | 0.80 | 1.6 | 44.4 | 4 | 0.1 | 145 | 111 | 83.9 | 0.017 | 0.553 | 936 |
| 92928 | 0.80 | 4.3 | 0.58 | 0.4 | 0.5 | < 1 | < 0.1 | 15 | 63.4 | 2.1 | < 0.003 | 0.069 | 686 |
| 92929 | 0.62 | 3.6 | 0.52 | 0.8 | 0.7 | < 1 | < 0.1 | 59 | 467 | 0.8 | 0.003 | 0.008 | 1240 |
| 92930 | 0.62 | 3.7 | 0.55 | 0.6 | 0.9 | < 1 | < 0.1 | 147 | 865 | 1.7 | < 0.003 | 0.012 | 956 |
| 92931 | 0.18 | 1.2 | 0.19 | 1.0 | 8.9 | < 1 | 0.3 | 41 | 50.4 | 11.7 | < 0.003 | 0.129 | 888 |
| 92932 | 0.63 | 3.9 | 0.61 | 1.1 | 1.5 | < 1 | < 0.1 | 73 | 1000 | 3.0 | 0.003 | 0.019 | 874 |
| 92933 | 0.51 | 2.8 | 0.38 | 1.6 | 10.8 | 1 | 0.2 | 19 | 55.6 | 15.3 | < 0.003 | 0.088 | 1030 |
| 92934 | 1.45 | 8.1 | 1.15 | 0.4 | 13.4 | < 1 | < 0.1 | 17 | 50.2 | 8.0 | < 0.003 | 0.037 | 1480 |
| 92935 | 0.49 | 3.0 | 0.46 | 58.4 | 365 | 6 | 0.1 | 206 | 50.7 | 598 | 0.070 | 0.335 | 773 |
| 92936 | 0.83 | 4.5 | 0.58 | 0.9 | 1.0 | < 1 | < 0.1 | 15 | 29.2 | 1.0 | < 0.003 | < 0.003 | 1290 |
| 92937 | 1.56 | 8.0 | 1.00 | 1.0 | 3.8 | 1 | < 0.1 | 35 | 111 | 3.4 | < 0.003 | 0.018 | 1300 |
| 92938 | 0.29 | 1.5 | 0.22 | 0.2 | 0.3 | 1 | 0.2 | 343 | 66.1 | 0.2 | < 0.003 | 0.022 | 1130 |

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF | none |
| 92939 | 1.22 | 7.1 | 1.05 | 0.9 | 11.2 | 3 | < 0.1 | 74 | 83.3 | 2.6 | < 0.003 | 0.039 | 1930 |
| 92940 | 1.75 | 10.5 | 1.51 | 8.0 | 146 | 3 | < 0.1 | 354 | 131 | 294 | 0.033 | 0.234 | 1180 |
| 92941 | 0.68 | 3.3 | 0.44 | 0.8 | 0.6 | < 1 | < 0.1 | 46 | 142 | 3.1 | 0.003 | 0.015 | 2050 |
| 92942 | 1.65 | 9.6 | 1.29 | 1.5 | 13.4 | 2 | 0.1 | 23 | 118 | 27.3 | < 0.003 | 0.054 | 806 |
| 92943 | 0.53 | 3.2 | 0.50 | 0.6 | 0.6 | 4 | 0.3 | 19 | 82.2 | 3.5 | < 0.003 | 0.168 | 1120 |
| 92966 | 5.85 | 36.1 | 5.61 | 1.5 | 0.4 | 2 | 0.4 | 333 | 1890 | 0.3 | 0.003 | 0.008 | 664 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|---------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | 11.48 | 1.89 | 0.74 | 0.013 | 0.35 | 43.45 | 0.87 | 0.55 | 0.117 | 30.22 | | | | | 1660 | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | |
| DNC-1 Meas | | | 47.01 | 18.40 | 9.70 | 0.146 | 10.04 | 11.31 | 1.92 | 0.22 | 0.477 | 0.07 | | | 31 | | 156 | | 270 | 58 | 250 | 100 | 60 | |
| DNC-1 Cert | | | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | | 270.000 | 57.0 | 247.000 | 100.0 | 70.0 | |
| GBW 07113 Meas | | 0.13 | 71.39 | 12.74 | 3.17 | 0.138 | 0.14 | 0.58 | 2.44 | 5.38 | 0.279 | 0.05 | | | 5 | 4 | < 5 | | | | | | | |
| GBW 07113 Cert | | 0.130 | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | |
| SCO-1 Meas | | 0.08 | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | 0.08 | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | 80 | 30 | 50 | 30 | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | | | |
| TDB-1 Meas | | | | | | | | | | | | | | | | | | | | | 80 | 350 | | |
| TDB-1 Cert | | | | | | | | | | | | | | | | | | | | | 92 | 323 | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | 52.42 | 15.39 | 10.61 | 0.166 | 6.28 | 10.90 | 2.22 | 0.62 | 1.076 | 0.13 | | | 35 | < 1 | 279 | 90 | 43 | 70 | | 18 | 2 | |
| W-2a Cert | | 0.0205 | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | | 17.0 | 1.00 | |
| SY-4 Meas | | | 49.44 | 20.48 | 6.24 | 0.107 | 0.50 | 8.00 | 6.90 | 1.66 | 0.288 | 0.13 | | | 1 | 3 | 7 | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | < 1 | | 60 | < 30 | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | 2.72 | | 54.0 | 38.0 | |
| BIR-1a Meas | | | 47.82 | 15.89 | 11.43 | 0.173 | 9.67 | 13.44 | 1.83 | 0.02 | 0.975 | 0.02 | | | 44 | < 1 | 342 | 370 | 53 | 160 | 130 | 70 | 15 | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | | | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | 1010 | 94 | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | 1050 | 99 | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | | 25 | 70 | 2600 | 7400 | 24 |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | 30 | 3 | < 20 | 960 | 16 | 11 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | 30 | 3.7 | 2.8 | 960.000 | 16.5 | 11.2 |
| SGR-1b Meas | | 0.20 | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 17 | | 150 | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | | 18.1 | | 169 | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 48 | | 440 | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 48.8 | | 434 | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| OREAS 101b (Fusion) Meas | | | | | | | | | | | | | | | | | | | 45 | < 20 | 400 | | | | |
| OREAS 101b (Fusion) Cert | | | | | | | | | | | | | | | | | | | 47 | 9 | 416 | | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | 30 | 17 | 3 | |
| JR-1 Cert | | | | | | | | | | | | | | | | | | 2.83 | 0.83 | 1.67 | 2.68 | 30.6 | 16.1 | 1.68 | |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 1060 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 876 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 1010 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 257 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 220 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 235 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 232 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92953 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92953 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92958 Orig | | 0.44 | 7.35 | 1.19 | 13.83 | 0.734 | 12.50 | 24.97 | 0.21 | 0.33 | 0.182 | 2.29 | 28.44 | 92.02 | 30 | 4 | 69 | 20 | 148 | 60 | 60 | 280 | 7 | 1 | |
| 92958 Dup | | 0.46 | 7.45 | 1.19 | 13.90 | 0.748 | 12.78 | 25.72 | 0.20 | 0.32 | 0.186 | 2.34 | 28.44 | 93.27 | 30 | 4 | 71 | 20 | 142 | 50 | 60 | 310 | 8 | 2 | |
| 92989 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92989 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92999 Orig | 14 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92999 Dup | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92960 Orig | | 0.55 | 26.09 | 6.89 | 12.68 | 0.527 | 9.16 | 16.02 | 1.22 | 2.09 | 1.250 | 0.87 | 23.16 | 99.97 | 44 | 32 | 183 | 100 | 21 | 60 | 40 | 210 | 14 | 2 | |
| 92960 Dup | | 0.54 | 26.02 | 6.81 | 12.69 | 0.524 | 9.11 | 15.91 | 1.21 | 2.07 | 1.239 | 0.87 | 23.16 | 99.60 | 43 | 32 | 183 | 100 | 21 | 80 | 40 | 210 | 14 | 2 | |
| 92930 Orig | | 0.23 | 1.06 | 0.16 | 10.23 | 1.150 | 13.69 | 28.29 | 0.03 | 0.10 | 0.030 | 1.89 | 40.13 | 96.76 | 27 | 2 | 64 | < 20 | 5 | < 20 | < 10 | 330 | 20 | 3 | |
| 92930 Dup | | 0.23 | 1.05 | 0.16 | 10.22 | 1.149 | 13.70 | 28.25 | 0.03 | 0.10 | 0.030 | 1.86 | 40.13 | 96.69 | 27 | 3 | 65 | < 20 | 5 | < 20 | < 10 | 310 | 20 | 3 | |
| 92937 Orig | < 5 | 0.69 | 1.11 | 0.32 | 8.01 | 0.384 | 15.04 | 30.31 | 0.04 | 0.25 | 0.057 | 2.09 | 40.84 | 98.45 | 26 | 5 | 106 | < 20 | 16 | < 20 | 10 | 140 | 7 | 2 | |
| 92937 Split | < 5 | 0.68 | 1.16 | 0.33 | 8.06 | 0.388 | 14.88 | 29.77 | 0.05 | 0.25 | 0.057 | 1.89 | 41.06 | 97.90 | 26 | 5 | 104 | < 20 | 16 | < 20 | < 10 | 130 | 6 | 2 | |
| 92942 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 92942 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | |
| Method Blank Method Blank | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

Method Blank Method
Blank

Quality Control

| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | 143 | 16 | 35 | | | | | 0.9 | | 106 | | 3.8 | | | 5.0 | | 0.61 | | | | | |
| DNC-1 Cert | | | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | |
| GBW 07113 Meas | | | 41 | 44 | 421 | | | | | | | 498 | | | | | | | | | | | | |
| GBW 07113 Cert | | | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | 25 | 70 | | | | < 2 | 1.8 | | 2 | 1.0 | 2.2 | | | 49.2 | 86.4 | | 43.3 | 7.8 | 1.41 | | 0.9 | 4.8 | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | 1.00 | 4.90 | | |
| TDB-1 Meas | | 22 | | | | | | | | | | | | 17.2 | 39.6 | | 23.8 | | 1.93 | | | | | |
| TDB-1 Cert | | 23 | | | | | | | | | | | | 17 | 41 | | 23 | | 2.1 | | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | < 5 | 19 | 195 | 19 | 87 | < 2 | < 0.5 | | | 0.8 | 0.9 | 174 | < 0.4 | 10.3 | 22.0 | | 12.6 | 3.2 | 1.07 | | 0.6 | 3.8 | 0.8 | 2.4 |
| W-2a Cert | 1.20 | 21.0 | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | 2.50 |
| SY-4 Meas | | | 1206 | 118 | 544 | | | | | | | 344 | | | | | | | | | | | | |
| SY-4 Cert | | | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2220 | 3340 | | 1150 | 169 | 46.0 | 135 | 15.2 | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | |
| BIR-1a Meas | < 5 | | 109 | 13 | 15 | | | | | 0.6 | | 8 | | | 2.1 | | 2.5 | 1.1 | 0.52 | 1.8 | | | | |
| BIR-1a Cert | 0.44 | | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | 1.9 | | 2.5 | 1.1 | 0.55 | 2.0 | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2340 | 179 | | 1550 | | | 220 | 34.1 | 183 | 35.6 | 96.0 |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | 270 | 16.7 | | | 180 | | | 80.3 | 44.2 | 84.1 | 9.95 | 37.4 | 7.7 | 1.81 | 7.1 | 1.1 | 6.3 | 1.2 | 3.3 |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 71 | 504 | | | | | 2.9 | 1.3 | 1700 | | 43.4 | | | 22.5 | 55.4 | 7.81 | 30.9 | 12.3 | | 14.3 | 3.3 | 21.5 | 4.4 | 13.1 |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | 1.8 | 1.3 | 1701.000 | | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | 24 | | | | | | | | 255 | 448 | 47.2 | 149 | 24.2 | 3.64 | 21.8 | 3.7 | 23.0 | 4.9 | 14.6 |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 |
| OREAS 101a (Fusion) Meas | | | | | | 21 | | | | | | | | 801 | 1370 | 130 | 392 | 49.6 | 7.99 | | 5.6 | 32.0 | 6.5 | 19.0 |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| OREAS 101b (Fusion) Meas | | | | | | 21 | | | | | | | | 752 | 1310 | 125 | 375 | 48.2 | 7.70 | | 5.4 | 31.1 | 6.4 | 18.6 | |
| OREAS 101b (Fusion) Cert | | | | | | 20.9 | | | | | | | | 789 | 1331 | 127 | 378 | 48 | 7.77 | | 5.37 | 32.1 | 6.34 | 18.7 | |
| JR-1 Meas | 16 | 250 | | | | 3 | < 0.5 | < 0.2 | 4 | 1.4 | 20.9 | | 0.7 | 19.9 | 46.8 | | 24.0 | 5.9 | 0.28 | 5.4 | 1.0 | | | 3.9 | |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | 0.66 | 19.7 | 47.2 | | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | | | 3.61 | |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | 1990 | 468 | 2970 | 586 | 1640 | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | 2095 | 470 | 3220 | 560 | 1750 | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 20900 | 28200 | 2220 | 6070 | 502 | 84.8 | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92953 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92953 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92958 Orig | < 5 | 10 | 1572 | 163 | 75 | 12 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 399 | < 0.4 | 736 | 1700 | 183 | 760 | 126 | 33.3 | 81.9 | 10.0 | 44.4 | 7.3 | 16.4 | |
| 92958 Dup | 7 | 10 | 1580 | 166 | 72 | 12 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 402 | < 0.4 | 727 | 1690 | 181 | 750 | 123 | 31.9 | 78.6 | 9.7 | 42.6 | 7.1 | 16.1 | |
| 92989 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92989 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92999 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92999 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92960 Orig | < 5 | 38 | 814 | 168 | 146 | 3 | 0.6 | < 0.2 | 7 | < 0.5 | 0.8 | 580 | < 0.4 | 731 | 1550 | 161 | 648 | 107 | 28.6 | 73.0 | 9.1 | 40.0 | 6.5 | 15.5 | |
| 92960 Dup | < 5 | 38 | 818 | 168 | 148 | 3 | 0.7 | < 0.2 | 7 | < 0.5 | 0.7 | 579 | < 0.4 | 758 | 1610 | 164 | 654 | 106 | 29.1 | 74.1 | 9.4 | 40.1 | 6.7 | 15.8 | |
| 92930 Orig | 10 | 2 | 2651 | 65 | 44 | 35 | < 0.5 | < 0.2 | 3 | 1.1 | < 0.5 | 65 | < 0.4 | 6720 | 7700 | 506 | 1540 | 238 | 62.3 | 157 | 10.7 | 27.8 | 3.0 | 6.3 | |
| 92930 Dup | 9 | 2 | 2651 | 65 | 44 | 35 | < 0.5 | < 0.2 | 3 | 0.8 | < 0.5 | 65 | < 0.4 | 6600 | 7610 | 501 | 1520 | 233 | 62.3 | 154 | 10.8 | 27.0 | 3.0 | 6.4 | |
| 92937 Orig | 14 | 3 | 1425 | 174 | 72 | 10 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 97 | < 0.4 | 245 | 561 | 74.0 | 337 | 89.6 | 30.9 | 76.9 | 9.7 | 42.0 | 6.5 | 14.7 | |
| 92937 Split | 11 | 3 | 1383 | 168 | 83 | 10 | < 0.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 95 | < 0.4 | 230 | 533 | 70.3 | 323 | 86.2 | 29.7 | 73.7 | 9.3 | 40.1 | 6.3 | 14.2 | |
| 92942 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92942 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | < 2 | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

Method Blank Method
Blank

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------------------|--------|--------|--------|--------|--------|---------|--------|-----------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| DH-1a Meas | | | | | | | | | | 2570 | | |
| DH-1a Cert | | | | | | | | | | 2629 | | |
| TAN-1 Meas | | | | | 2470 | | | | | | | |
| TAN-1 Cert | | | | | 2360 | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | |
| DNC-1 Meas | | 1.9 | | | | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | |
| LKSD-3 Meas | | 2.7 | 0.40 | | 0.7 | 2 | | | 10.4 | 4.5 | | |
| LKSD-3 Cert | | 2.70 | 0.400 | | 0.700 | 2.00 | | | 11.4 | 4.60 | | |
| TDB-1 Meas | | 3.2 | | | | | | | 2.8 | | | |
| TDB-1 Cert | | 3.4 | | | | | | | 2.7 | | | |
| OKA-2 Meas | | | | | | | | | 28700 | | | |
| OKA-2 Cert | | | | | | | | 28900.000 | | | | |
| AC-E Meas | | | | | | | | | | | | 0.015 |
| AC-E Cert | | | | | | | | | | | | 0.016 |
| DR-N Meas | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | 0.530 |
| OKA-1 Cert | | | | | | | | | | | | 0.529 |
| W-2a Meas | 0.36 | 2.0 | 0.33 | 2.4 | 0.5 | < 1 | 0.1 | 12 | 2.4 | 0.5 | | |
| W-2a Cert | 0.380 | 2.10 | 0.330 | 2.60 | 0.500 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 | | |
| SY-4 Meas | | | | | | | | | | | | |
| SY-4 Cert | | | | | | | | | | | | |
| CTA-AC-1 Meas | | 10.9 | 1.11 | | 2.6 | | | | 22.8 | 4.2 | | |
| CTA-AC-1 Cert | | 11.4 | 1.08 | | 2.65 | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | | 1.7 | 0.25 | 0.5 | | | | < 5 | | | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | | 3 | | | | |
| NCS DC86312 Meas | 14.2 | 86.0 | 12.0 | | | | | | 24.6 | | | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | | 23.6 | | | |
| ZW-C Meas | | | | | 82.9 | | | | | | 0.009 | |
| ZW-C Cert | | | | | 82 | | | | | | 0.010 | |
| VS-N Meas | | | | | | | | | | | 0.097 | 0.099 |
| VS-N Cert | | | | | | | | | | | 0.098 | 0.10 |
| NCS DC70014 Meas | | 3.2 | 0.47 | | | | | 27200 | | | | |
| NCS DC70014 Cert | | 3.3 | 0.50 | | | | | 27200.00 | | | | |
| NCS DC86316 Meas | | | | 712 | | | | | | | | |
| NCS DC86316 Cert | | | | 712 | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.38 | 16.4 | 2.31 | | | 2200 | | | 29.5 | | | |
| NCS DC70009 (GBW07241) Cert | 2.2 | 14.9 | 2.4 | | | 2200.00 | | | 28.3 | | | |
| SGR-1b Meas | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.38 | 15.2 | 2.15 | | | | | | 51.4 | 138 | | |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | 2.90 | 17.7 | 2.49 | | | | | | 35.6 | 421 | | |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | 2.66 | | | | | | 36.6 | 422 | | |

| Quality Control | | | | | | | | | | | | |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analyte Symbol | Tm | Yb | Lu | Hf | Ta | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 0.1 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |

Method Blank Method
 Blank < 0.003 < 0.003



Date Submitted: 11-Oct-11
Invoice No.: A11-11711-8REE-4F-F-1A2
Invoice Date: 11-Nov-11
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

34 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-11711-8REE-4F

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized and somewhat cursive, written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control



ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-11711-8REE-4F-F-1A2

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92967 | < 5 | 0.51 | 10.87 | 1.08 | 7.01 | 0.780 | 14.86 | 24.77 | 0.03 | 0.73 | 0.074 | 1.82 | 35.41 | 97.43 | 51 | 2 | 45 | 30 | 7 | 30 | < 10 | 170 | 6 | 1 |
| 92968 | 24 | 5.14 | 1.07 | 0.19 | 9.34 | 1.796 | 11.62 | 32.73 | 0.01 | 0.10 | 0.012 | 2.48 | 33.38 | 92.73 | 91 | 14 | 33 | 20 | 5 | < 20 | < 10 | 680 | 18 | 2 |
| 92969 | < 5 | 3.19 | 5.54 | 1.52 | 6.48 | 1.131 | 15.32 | 27.65 | 0.16 | 0.95 | 0.095 | 1.13 | 35.46 | 95.46 | 61 | 15 | 34 | < 20 | 4 | < 20 | < 10 | 310 | 10 | 1 |
| 92970 | 11 | 8.60 | 0.86 | 0.19 | 7.82 | 1.755 | 10.35 | 36.77 | 0.02 | 0.08 | 0.011 | 3.46 | 29.86 | 91.18 | 82 | 25 | 34 | 20 | 4 | < 20 | < 10 | 500 | 26 | 3 |
| 107601 | < 5 | 0.93 | 37.82 | 12.31 | 10.35 | 0.188 | 6.74 | 7.73 | 2.70 | 5.59 | 2.565 | 0.40 | 11.66 | 98.05 | 28 | 35 | 288 | 170 | 33 | 100 | 280 | 100 | 18 | 1 |
| 107602 | < 5 | 0.93 | 28.17 | 8.30 | 8.76 | 0.307 | 8.88 | 14.37 | 1.73 | 4.95 | 1.768 | 0.33 | 21.51 | 99.08 | 26 | 35 | 177 | 100 | 20 | 60 | 100 | 120 | 11 | < 1 |
| 107603 | < 5 | 0.73 | 14.47 | 4.17 | 6.74 | 0.431 | 15.33 | 19.35 | 0.84 | 2.70 | 1.202 | 0.16 | 31.93 | 97.34 | 46 | 8 | 196 | 40 | 14 | 40 | 30 | 210 | 10 | < 1 |
| 107604 | < 5 | 0.17 | 1.36 | 0.21 | 4.93 | 0.665 | 18.81 | 27.37 | 0.05 | 0.17 | 0.022 | 0.44 | 43.41 | 97.43 | 25 | 2 | 42 | < 20 | 3 | < 20 | < 10 | 280 | 11 | 1 |
| 107605 | < 5 | 0.09 | 45.47 | 18.35 | 14.29 | 0.063 | 3.41 | 1.85 | 0.14 | 8.01 | 3.769 | 0.17 | 3.94 | 99.46 | 24 | 8 | 232 | 360 | 25 | 90 | 10 | 60 | 27 | 1 |
| 107606 | < 5 | 1.60 | 2.25 | 0.65 | 11.22 | 0.621 | 10.86 | 30.64 | 0.05 | 0.49 | 0.072 | 5.88 | 33.01 | 95.73 | 17 | 2 | 80 | < 20 | 10 | < 20 | 20 | 180 | 7 | 1 |
| 107607 | < 5 | 0.53 | 29.05 | 8.43 | 9.91 | 0.265 | 5.80 | 16.25 | 1.71 | 5.01 | 2.691 | 4.31 | 15.65 | 99.06 | 31 | 9 | 230 | 40 | 28 | 40 | 150 | 160 | 15 | 1 |
| 107608 | < 5 | 0.35 | 0.58 | 0.16 | 0.83 | 0.152 | 1.26 | 54.73 | 0.05 | 0.08 | 0.021 | 4.83 | 37.34 | 100.0 | 4 | < 1 | 22 | < 20 | < 1 | < 20 | < 10 | < 30 | 3 | < 1 |
| 107609 | < 5 | 0.22 | 1.83 | 0.27 | 31.24 | 1.137 | 8.60 | 21.50 | 0.11 | 0.19 | 0.502 | 1.78 | 23.73 | 90.88 | 49 | 5 | 317 | < 20 | 25 | < 20 | 20 | 680 | 7 | 1 |
| 107610 | < 5 | 1.08 | 0.87 | 0.16 | 7.28 | 0.406 | 6.86 | 41.96 | 0.04 | 0.12 | 0.492 | 6.54 | 32.18 | 96.91 | 12 | 3 | 225 | < 20 | 9 | < 20 | < 10 | 350 | 4 | < 1 |
| 107611 | < 5 | 0.53 | 13.00 | 3.17 | 8.91 | 0.439 | 10.22 | 25.41 | 0.56 | 2.12 | 0.159 | 3.16 | 30.22 | 97.37 | 6 | 7 | 70 | 20 | 9 | < 20 | < 10 | 110 | 7 | < 1 |
| 107612 | < 5 | 0.60 | 39.03 | 12.06 | 14.83 | 0.145 | 6.89 | 5.04 | 3.92 | 3.62 | 3.074 | 0.27 | 7.70 | 96.58 | 27 | 21 | 372 | 280 | 50 | 160 | 200 | 110 | 19 | 2 |
| 107613 | < 5 | 1.78 | 1.70 | 0.14 | 6.34 | 0.628 | 10.86 | 35.67 | 0.12 | 0.05 | 0.078 | 11.59 | 29.65 | 96.83 | 34 | 4 | 88 | < 20 | 6 | < 20 | 710 | 870 | 9 | 2 |
| 107614 | < 5 | 0.48 | 1.61 | 0.39 | 14.21 | 0.778 | 10.82 | 28.46 | 0.04 | 0.30 | 0.059 | 4.71 | 34.44 | 95.80 | 20 | 1 | 36 | < 20 | 16 | < 20 | < 10 | 160 | 6 | < 1 |
| 107615 | < 5 | 1.28 | 3.09 | 0.51 | 9.69 | 0.328 | 8.69 | 35.10 | 0.06 | 0.41 | 0.109 | 13.23 | 25.89 | 97.12 | 20 | 2 | 55 | < 20 | 11 | < 20 | < 10 | 190 | 6 | < 1 |
| 107616 | < 5 | 1.32 | 15.57 | 4.51 | 7.67 | 0.506 | 8.36 | 26.35 | 0.15 | 3.89 | 0.400 | 9.14 | 20.24 | 96.77 | 15 | 2 | 78 | 50 | 14 | 20 | 30 | 120 | 10 | < 1 |
| 107617 | < 5 | 0.13 | 49.38 | 13.05 | 14.68 | 0.067 | 4.88 | 1.96 | 6.15 | 2.77 | 3.714 | 0.49 | 1.81 | 98.95 | 27 | 2 | 290 | 80 | 41 | 70 | 110 | 110 | 21 | 2 |
| 107618 | < 5 | 0.03 | 31.66 | 7.04 | 8.18 | 0.099 | 7.97 | 14.98 | 4.13 | 0.11 | 1.562 | 0.62 | 21.10 | 97.46 | 24 | 2 | 130 | 620 | 37 | 150 | 40 | 40 | 9 | < 1 |
| 107619 | < 5 | 0.21 | 36.38 | 10.45 | 13.13 | 0.164 | 6.77 | 8.09 | 3.51 | 3.83 | 3.115 | 0.39 | 11.45 | 97.28 | 20 | 15 | 269 | 50 | 37 | 60 | 90 | 90 | 18 | 1 |
| 107620 | 5 | 0.20 | 0.79 | 0.21 | 15.89 | 1.245 | 12.40 | 22.23 | 0.03 | 0.13 | 0.045 | 0.86 | 37.13 | 90.96 | 14 | 2 | 30 | 20 | 16 | < 20 | 20 | 5390 | 37 | 5 |
| 107621 | 5 | 0.28 | 1.98 | 0.32 | 14.22 | 1.318 | 13.63 | 25.83 | 0.03 | 0.33 | 0.065 | 0.78 | 38.91 | 97.41 | 31 | 5 | 43 | < 20 | 4 | < 20 | < 10 | 240 | 6 | < 1 |
| 107622 | < 5 | 0.54 | 36.93 | 10.24 | 5.54 | 0.311 | 6.22 | 13.26 | 0.39 | 8.73 | 0.199 | 0.07 | 14.45 | 96.34 | 10 | 3 | 51 | 30 | 11 | < 20 | 30 | 290 | 14 | < 1 |
| 107623 | < 5 | 0.68 | 44.26 | 5.82 | 8.99 | 0.494 | 6.47 | 9.89 | 1.01 | 5.26 | 2.242 | 0.07 | 13.12 | 97.64 | 14 | 9 | 128 | 1000 | 26 | 220 | < 10 | 180 | 13 | < 1 |
| 107624 | < 5 | 0.16 | 44.16 | 12.14 | 12.04 | 0.109 | 7.11 | 3.34 | 2.37 | 7.22 | 3.492 | 0.13 | 5.29 | 97.39 | 22 | 26 | 237 | 60 | 38 | 80 | 120 | 110 | 21 | 1 |
| 107625 | < 5 | 0.92 | 16.11 | 4.28 | 11.25 | 0.336 | 10.56 | 21.10 | 0.69 | 3.11 | 0.854 | 4.38 | 23.01 | 95.68 | 15 | 12 | 138 | 40 | 15 | 20 | 30 | 120 | 17 | < 1 |
| 92971 | < 5 | 7.75 | 2.99 | 0.98 | 6.29 | 1.191 | 13.70 | 33.63 | 0.04 | 0.65 | 0.066 | 1.01 | 32.86 | 93.39 | 73 | 24 | 33 | < 20 | 2 | < 20 | < 10 | 430 | 20 | 3 |
| 92972 | < 5 | 2.62 | 10.96 | 3.00 | 8.62 | 0.949 | 13.70 | 24.46 | 0.07 | 1.72 | 0.554 | 0.82 | 30.74 | 95.59 | 77 | 11 | 96 | 390 | 28 | 100 | 10 | 620 | 15 | 2 |
| 92973 | 10 | 8.58 | 26.31 | 0.09 | 6.95 | 0.680 | 7.85 | 28.73 | 0.01 | 0.05 | 0.032 | 0.69 | 22.45 | 93.82 | 44 | 16 | 18 | 20 | 2 | < 20 | < 10 | 910 | 15 | 2 |
| 92974 | 8 | 0.50 | 4.85 | 0.27 | 44.56 | 2.767 | 6.05 | 9.61 | 0.01 | 0.19 | 0.012 | 0.37 | 30.67 | 99.36 | 13 | 4 | 11 | 70 | 25 | 80 | < 10 | 1150 | 7 | 2 |
| 92975 | < 5 | 0.87 | 24.22 | 5.25 | 31.32 | 2.005 | 4.37 | 7.03 | 1.85 | 1.78 | 0.708 | 0.56 | 18.87 | 97.95 | 17 | 6 | 36 | 60 | 26 | 90 | < 10 | 950 | 13 | 2 |

Activation Laboratories Ltd. Report: A11-11711-8REE-4F-F-1A2

| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 92967 | 9 | 18 | 1312 | 148 | 36 | 3 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 149 | < 0.4 | 466 | 1060 | 135 | 563 | 101 | 25.7 | 68.2 | 7.9 | 37.8 | 5.9 | 13.0 |
| 92968 | 18 | 3 | 1150 | 195 | 17 | 37 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 120 | 3.0 | 3160 | 5650 | 498 | 1540 | 182 | 42.9 | 122 | 11.1 | 47.8 | 7.8 | 21.7 |
| 92969 | 9 | 22 | 1874 | 205 | 55 | 10 | < 0.5 | < 0.2 | 3 | 0.8 | 0.7 | 485 | 1.5 | 1750 | 2550 | 221 | 676 | 99.3 | 27.6 | 84.3 | 10.4 | 49.8 | 7.8 | 19.1 |
| 92970 | 17 | < 2 | 1362 | 209 | 28 | 34 | < 0.5 | < 0.2 | 2 | 0.8 | < 0.5 | 158 | 3.6 | 6040 | 8900 | 726 | 2010 | 235 | 57.8 | 167 | 13.0 | 53.9 | 8.5 | 21.1 |
| 107601 | < 5 | 89 | 585 | 32 | 223 | 73 | 1.6 | < 0.2 | 2 | 1.1 | 3.6 | 712 | < 0.4 | 75.6 | 137 | 15.1 | 58.6 | 11.7 | 3.53 | 10.1 | 1.4 | 7.6 | 1.3 | 3.6 |
| 107602 | < 5 | 40 | 887 | 38 | 116 | 52 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.9 | 346 | < 0.4 | 156 | 267 | 29.2 | 109 | 19.6 | 5.28 | 14.1 | 1.8 | 8.5 | 1.4 | 3.5 |
| 107603 | < 5 | 39 | 1530 | 70 | 27 | 5 | < 0.5 | < 0.2 | 4 | < 0.5 | 0.9 | 706 | < 0.4 | 564 | 1010 | 107 | 381 | 58.4 | 14.0 | 36.0 | 3.8 | 17.1 | 2.6 | 6.7 |
| 107604 | 5 | 2 | 2074 | 159 | 82 | 11 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 158 | 1.0 | 2960 | 3590 | 295 | 928 | 114 | 26.1 | 76.0 | 7.6 | 34.7 | 5.3 | 12.1 |
| 107605 | < 5 | 88 | 121 | 17 | 163 | < 2 | 0.7 | < 0.2 | 4 | < 0.5 | 0.8 | 1237 | < 0.4 | 67.0 | 122 | 14.0 | 54.6 | 8.1 | 2.04 | 5.4 | 0.7 | 3.7 | 0.7 | 2.0 |
| 107606 | < 5 | 5 | 1674 | 163 | 367 | 4 | 3.2 | < 0.2 | 1 | < 0.5 | < 0.5 | 293 | < 0.4 | 987 | 1720 | 183 | 650 | 93.8 | 24.8 | 69.7 | 8.3 | 42.9 | 6.8 | 17.0 |
| 107607 | < 5 | 44 | 1126 | 256 | 284 | 20 | 1.9 | < 0.2 | 8 | 1.2 | 1.2 | 509 | 0.7 | 72.6 | 171 | 33.7 | 250 | 105 | 31.3 | 83.9 | 11.5 | 59.6 | 9.6 | 22.2 |
| 107608 | < 5 | < 2 | 6324 | 85 | 33 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 681 | < 0.4 | 366 | 854 | 109 | 445 | 69.3 | 17.7 | 44.3 | 4.9 | 22.9 | 3.5 | 8.3 |
| 107609 | 6 | 6 | 2118 | 63 | 234 | 3 | 1.3 | < 0.2 | 15 | < 0.5 | < 0.5 | 277 | < 0.4 | 470 | 1030 | 122 | 460 | 64.1 | 15.2 | 36.8 | 3.4 | 15.4 | 2.4 | 6.2 |
| 107610 | 6 | 3 | 2443 | 160 | 583 | 3 | 5.5 | < 0.2 | 4 | < 0.5 | < 0.5 | 384 | < 0.4 | 379 | 884 | 105 | 414 | 71.2 | 20.8 | 51.9 | 6.4 | 32.7 | 5.6 | 14.4 |
| 107611 | < 5 | 26 | 1486 | 62 | 114 | 3 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 620 | < 0.4 | 296 | 577 | 67.9 | 264 | 39.6 | 10.3 | 26.9 | 3.0 | 14.9 | 2.4 | 6.2 |
| 107612 | < 5 | 77 | 262 | 24 | 337 | < 2 | 2.7 | < 0.2 | 3 | < 0.5 | 8.1 | 480 | < 0.4 | 44.1 | 89.0 | 11.0 | 45.9 | 8.9 | 2.66 | 7.4 | 1.1 | 5.8 | 1.1 | 3.1 |
| 107613 | 8 | < 2 | 3196 | 360 | 156 | < 2 | 1.5 | < 0.2 | 6 | 1.5 | < 0.5 | 113 | 2.1 | 1050 | 2310 | 278 | 1140 | 197 | 55.0 | 139 | 17.2 | 85.5 | 13.6 | 33.8 |
| 107614 | < 5 | 6 | 2169 | 73 | 327 | 8 | 2.4 | < 0.2 | 3 | < 0.5 | < 0.5 | 68 | < 0.4 | 502 | 1120 | 133 | 492 | 63.9 | 15.5 | 40.4 | 4.0 | 19.6 | 3.0 | 6.9 |
| 107615 | < 5 | 10 | 2080 | 164 | 520 | < 2 | 4.4 | < 0.2 | 7 | < 0.5 | < 0.5 | 96 | < 0.4 | 337 | 789 | 106 | 469 | 93.9 | 26.1 | 73.6 | 9.6 | 46.9 | 7.2 | 15.2 |
| 107616 | < 5 | 45 | 2566 | 215 | 140 | 3 | 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 658 | < 0.4 | 268 | 600 | 81.3 | 363 | 82.2 | 24.7 | 67.5 | 9.6 | 52.2 | 8.6 | 21.2 |
| 107617 | < 5 | 75 | 120 | 21 | 272 | < 2 | 1.8 | < 0.2 | 3 | < 0.5 | 2.6 | 224 | < 0.4 | 68.4 | 143 | 18.0 | 75.5 | 13.6 | 3.74 | 9.8 | 1.2 | 5.8 | 0.9 | 2.5 |
| 107618 | < 5 | 2 | 804 | 16 | 134 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 493 | < 0.4 | 28.7 | 56.2 | 6.81 | 28.4 | 5.6 | 1.80 | 4.7 | 0.7 | 3.8 | 0.7 | 1.9 |
| 107619 | < 5 | 50 | 679 | 30 | 322 | < 2 | 2.4 | < 0.2 | 2 | < 0.5 | 2.7 | 624 | < 0.4 | 41.2 | 86.7 | 11.1 | 48.0 | 9.8 | 2.98 | 8.3 | 1.2 | 6.9 | 1.2 | 3.4 |
| 107620 | 16 | 3 | 1839 | 35 | 58 | 11 | < 0.5 | < 0.2 | 8 | < 0.5 | < 0.5 | 115 | < 0.4 | 7830 | 12500 | 1140 | 3400 | 292 | 44.8 | 118 | 4.1 | 11.7 | 1.3 | 2.7 |
| 107621 | < 5 | 10 | 2182 | 40 | 114 | < 2 | < 0.5 | < 0.2 | 21 | < 0.5 | < 0.5 | 233 | < 0.4 | 622 | 1010 | 93.9 | 284 | 27.1 | 5.46 | 15.9 | 1.5 | 7.2 | 1.3 | 3.7 |
| 107622 | < 5 | 105 | 675 | 15 | 20 | 13 | < 0.5 | < 0.2 | 3 | < 0.5 | 0.5 | 477 | < 0.4 | 186 | 355 | 40.9 | 150 | 18.3 | 3.88 | 9.0 | 0.8 | 3.1 | 0.5 | 1.3 |
| 107623 | < 5 | 53 | 454 | 32 | 65 | 13 | < 0.5 | < 0.2 | 18 | 1.8 | 0.6 | 88 | < 0.4 | 143 | 241 | 25.7 | 91.4 | 15.7 | 4.60 | 12.2 | 1.6 | 7.9 | 1.3 | 3.2 |
| 107624 | < 5 | 101 | 331 | 16 | 184 | < 2 | 0.9 | < 0.2 | 3 | 0.5 | 7.1 | 504 | < 0.4 | 38.8 | 82.4 | 10.1 | 40.7 | 7.3 | 2.05 | 5.2 | 0.7 | 3.9 | 0.7 | 1.9 |
| 107625 | < 5 | 62 | 1817 | 74 | 314 | 2 | 2.1 | < 0.2 | 7 | 0.6 | 2.4 | 505 | < 0.4 | 236 | 513 | 63.7 | 252 | 46.2 | 13.0 | 34.9 | 4.3 | 20.7 | 3.2 | 7.7 |
| 92971 | 10 | 14 | 1760 | 386 | 38 | 4 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 422 | 2.1 | 4420 | 6770 | 554 | 1640 | 208 | 59.6 | 177 | 18.8 | 88.6 | 13.9 | 35.1 |
| 92972 | 82 | 34 | 1219 | 253 | 76 | 26 | < 0.5 | 0.3 | 61 | 1.1 | 1.4 | 595 | 2.4 | 2330 | 3650 | 341 | 1230 | 246 | 63.7 | 164 | 16.5 | 69.9 | 9.7 | 20.7 |
| 92973 | 10 | < 2 | 540 | 173 | 40 | 14 | < 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 87 | 0.9 | 3950 | 5300 | 422 | 1210 | 129 | 30.4 | 96.4 | 9.0 | 40.2 | 6.4 | 17.0 |
| 92974 | 17 | 2 | 203 | 77 | 43 | 54 | < 0.5 | 0.3 | < 1 | < 0.5 | < 0.5 | 51 | 6.6 | 464 | 1190 | 218 | 1170 | 181 | 33.0 | 64.0 | 5.0 | 20.6 | 2.9 | 7.4 |
| 92975 | 25 | 9 | 134 | 106 | 51 | 29 | < 0.5 | < 0.2 | 5 | < 0.5 | < 0.5 | 347 | 4.9 | 393 | 985 | 196 | 1160 | 185 | 32.7 | 63.1 | 5.4 | 22.6 | 3.5 | 9.5 |

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Ti | Pb | Th | U | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | none |
| 92967 | 1.55 | 8.4 | 1.13 | 0.8 | < 1 | 0.3 | 66 | 192 | 16.2 | 1070 |
| 92968 | 3.04 | 17.9 | 2.60 | 0.8 | < 1 | 0.4 | 111 | 595 | 0.1 | 2490 |
| 92969 | 2.28 | 11.9 | 1.58 | 1.3 | < 1 | 0.6 | 129 | 417 | 1.2 | 3180 |
| 92970 | 2.86 | 16.3 | 2.28 | 1.0 | < 1 | 0.3 | 152 | 854 | 0.2 | 931 |
| 107601 | 0.52 | 3.4 | 0.54 | 4.4 | 44 | 1.6 | 8 | 20.2 | 0.3 | 1950 |
| 107602 | 0.46 | 2.8 | 0.44 | 2.7 | 15 | 0.7 | 16 | 26.4 | 0.5 | 1350 |
| 107603 | 0.83 | 4.9 | 0.71 | 0.8 | 8 | 0.5 | 49 | 85.8 | 0.4 | 1040 |
| 107604 | 1.42 | 7.8 | 1.06 | 0.9 | < 1 | < 0.1 | 125 | 171 | 0.4 | 872 |
| 107605 | 0.31 | 1.9 | 0.32 | 3.7 | 16 | 0.1 | 5 | 12.3 | 0.5 | 1200 |
| 107606 | 2.07 | 11.4 | 1.59 | 3.5 | 3 | < 0.1 | 22 | 236 | 33.5 | 736 |
| 107607 | 2.47 | 12.2 | 1.52 | 5.9 | 22 | 0.4 | 71 | 128 | 1.3 | 900 |
| 107608 | 0.99 | 5.4 | 0.79 | 0.4 | < 1 | < 0.1 | 24 | 79.9 | 28.1 | 838 |
| 107609 | 0.72 | 4.3 | 0.63 | 2.7 | < 1 | < 0.1 | 34 | 303 | 38.4 | 1450 |
| 107610 | 1.91 | 11.3 | 1.66 | 1.9 | < 1 | 0.2 | 717 | 64.1 | 356 | 1470 |
| 107611 | 0.82 | 5.0 | 0.74 | 1.1 | < 1 | 0.2 | 98 | 24.2 | 38.0 | 1210 |
| 107612 | 0.46 | 3.0 | 0.48 | 7.2 | 14 | 0.4 | 7 | 11.9 | 1.8 | 559 |
| 107613 | 4.32 | 24.3 | 3.41 | 1.6 | 3 | < 0.1 | 128 | 612 | 3.6 | 475 |
| 107614 | 0.80 | 4.4 | 0.58 | 4.3 | < 1 | < 0.1 | 49 | 88.2 | 53.4 | 1300 |
| 107615 | 1.66 | 8.8 | 1.13 | 6.3 | < 1 | 0.1 | 12 | 42.8 | 14.2 | 818 |
| 107616 | 2.53 | 12.9 | 1.66 | 1.7 | 2 | 0.4 | 11 | 85.4 | 5.5 | 1350 |
| 107617 | 0.31 | 1.8 | 0.26 | 6.8 | 4 | 0.2 | < 5 | 7.2 | 1.0 | 1000 |
| 107618 | 0.24 | 1.6 | 0.24 | 2.6 | 2 | < 0.1 | 8 | 5.1 | 1.3 | 691 |
| 107619 | 0.46 | 3.1 | 0.49 | 6.2 | 13 | 0.2 | < 5 | 6.4 | 0.3 | 1250 |
| 107620 | 0.31 | 1.7 | 0.24 | 0.8 | < 1 | < 0.1 | 31 | 248 | 1.7 | 1130 |
| 107621 | 0.53 | 3.5 | 0.55 | 3.4 | < 1 | 0.1 | 770 | 59.8 | 499 | 465 |
| 107622 | 0.19 | 1.3 | 0.21 | 0.5 | < 1 | 0.6 | 22 | 15.9 | 2.2 | 1390 |
| 107623 | 0.37 | 2.2 | 0.31 | 1.1 | 40 | 0.4 | 11 | 20.8 | 0.3 | 1300 |
| 107624 | 0.28 | 1.9 | 0.29 | 4.4 | 9 | 0.3 | 5 | 9.2 | 0.7 | 1500 |
| 107625 | 0.93 | 5.1 | 0.73 | 3.6 | 5 | 0.2 | 253 | 82.3 | 225 | 1490 |
| 92971 | 4.59 | 27.5 | 4.00 | 1.3 | < 1 | 0.3 | 139 | 658 | 1.9 | 2470 |
| 92972 | 2.32 | 12.6 | 1.78 | 2.6 | 3 | 0.8 | 209 | 707 | 0.9 | 2730 |
| 92973 | 2.12 | 12.1 | 1.52 | 0.8 | < 1 | 0.1 | 73 | 291 | 0.3 | 1580 |
| 92974 | 0.93 | 5.3 | 0.70 | 0.5 | < 1 | 0.1 | 236 | 709 | 0.2 | 2060 |
| 92975 | 1.31 | 7.7 | 0.99 | 1.0 | 2 | 0.3 | 167 | 655 | 0.4 | 2270 |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | | | | | | | | | | | | | | | | 270 | 58 | 250 | | | | |
| DNC-1 Cert | | | | | | | | | | | | | | | | | | 270.000 | 57.0 | 247.000 | | | | |
| GBW 07113 Meas | | 0.13 | | | | | | | | | | | | | | | | | | | | | | |
| GBW 07113 Cert | | 0.130 | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | 0.08 | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | 0.08 | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | | 31 | 50 | 40 | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | | 30.0 | 47.0 | 35.0 | | | |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | | | | | | | | | | | | | | | | 80 | 42 | 60 | 110 | 70 | 17 | |
| W-2a Cert | | 0.0205 | | | | | | | | | | | | | | | | 92.0 | 43.0 | 70.0 | 110 | 80.0 | 17.0 | |
| DTS-2b Meas | | | | | | | | | | | | | | | | | | 15600 | | | | | | |
| DTS-2b Cert | | | | | | | | | | | | | | | | | | 15500 | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| BIR-1a Meas | | | | | | | | | | | | | | | | | | 370 | 54 | 170 | 140 | 80 | 15 | |
| BIR-1a Cert | | | | | | | | | | | | | | | | | | 370 | 52 | 170 | 125 | 70 | 16 | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | 25 | 70 | 2620 | 7400 | 25 | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | | | 900 | 110 | 16 | 11 |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | | | 960.000 | 100.000 | 16.5 | 11.2 |
| SGR-1b Meas | | 0.20 | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | 16 | | 170 | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | 18.1 | | 169 | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | 48 | | 440 | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | 48.8 | | 434 | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | | | < 20 | 30 | 17 | |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | | | 1.67 | 30.6 | 16.1 | |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 256 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 240 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 932 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 107606 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107606 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107611 Orig | | 0.53 | 13.02 | 3.18 | 8.88 | 0.442 | 10.18 | 25.47 | 0.56 | 2.12 | 0.160 | 3.16 | 30.22 | 97.39 | 6 | 8 | 71 | 20 | 9 | < 20 | < 10 | 60 | 7 | < 1 |
| 107611 Dup | | 0.53 | 12.97 | 3.16 | 8.94 | 0.437 | 10.26 | 25.36 | 0.56 | 2.11 | 0.159 | 3.16 | 30.22 | 97.35 | 6 | 7 | 70 | 20 | 10 | < 20 | 140 | 160 | 7 | < 1 |
| 107616 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107616 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107625 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 107625 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92971 Orig | < 5 | 7.75 | 2.99 | 0.98 | 6.29 | 1.191 | 13.70 | 33.63 | 0.04 | 0.65 | 0.066 | 1.01 | 32.86 | 93.39 | 73 | 24 | 33 | < 20 | 2 | < 20 | < 10 | 430 | 20 | 3 |
| 92971 Split | < 5 | 8.09 | 3.01 | 1.00 | 6.27 | 1.190 | 13.59 | 33.11 | 0.04 | 0.66 | 0.065 | 1.00 | 32.39 | 92.32 | 71 | 26 | 31 | < 20 | 3 | < 20 | < 10 | 430 | 20 | 2 |
| 92973 Orig | | 8.67 | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | 8.48 | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Orig | | 8.56 | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | 8.70 | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Orig | | 9.18 | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | 9.22 | | | | | | | | | | | | | | | | | | | | | | |
| 92975 Orig | < 5 | 0.87 | 24.22 | 5.25 | 31.32 | 2.005 | 4.37 | 7.03 | 1.85 | 1.78 | 0.708 | 0.56 | 18.87 | 97.95 | 17 | 6 | 36 | 60 | 26 | 90 | < 10 | 950 | 13 | 2 |
| 92975 Split | 7 | 0.86 | 23.82 | 5.22 | 30.71 | 1.961 | 4.36 | 6.90 | 1.83 | 1.77 | 0.680 | 0.57 | 18.93 | 96.74 | 16 | 6 | 34 | 60 | 27 | 100 | < 10 | 970 | 13 | 2 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | | | | | | | | 0.8 | | | | 3.8 | | | 4.8 | | 0.58 | | | | | | |
| DNC-1 Cert | | | | | | | | | | 0.96 | | | | 3.6 | | | 5.20 | | 0.59 | | | | | | |
| GBW 07113 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | 24 | 74 | | | | < 2 | 1.8 | | | 2 | 1.2 | 2.4 | | 49.8 | 92.0 | | 43.5 | 7.8 | 1.40 | | 0.9 | 4.8 | | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | | 3.00 | 1.30 | 2.30 | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | 1.00 | 4.90 | | | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 19 | | | | < 2 | < 0.5 | | | 0.8 | 0.9 | | < 0.4 | 11.1 | 23.5 | | 12.7 | 3.2 | 1.07 | | 0.6 | 3.8 | 0.8 | | |
| W-2a Cert | | 21.0 | | | | 0.600 | 0.0460 | | | 0.790 | 0.990 | | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | 0.630 | 3.60 | 0.760 | | |
| DTS-2b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DTS-2b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2180 | 3330 | | 1120 | 164 | 44.8 | 134 | 14.8 | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | |
| BIR-1a Meas | < 5 | | | | | | | | | < 0.5 | | | | | | | 2.7 | 1.2 | 0.53 | 1.8 | | | | | |
| BIR-1a Cert | 0.44 | | | | | | | | | 0.58 | | | | | | | 2.5 | 1.1 | 0.55 | 2.0 | | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2370 | 182 | | 1570 | | | | 221 | 34.3 | 183 | 35.7 | 96.4 |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 |
| NCS DC70014 Meas | | | | | | 270 | 16.6 | | | 180 | | | 80.3 | 44.7 | 86.2 | 9.92 | 37.4 | 7.7 | | 7.2 | 1.1 | 6.2 | 1.2 | 3.4 | |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | |
| NCS DC70009 (GBW07241) Meas | 72 | 501 | | | | | | 1.3 | 1700 | 3.6 | 43.6 | | 24.1 | 58.7 | 7.65 | 31.3 | 12.1 | | 14.2 | 3.2 | 20.4 | 4.2 | 12.6 | | |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | | 1.3 | 1701.000 | 3.1 | 41 | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | | |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | 22 | | | | | | | | 249 | 446 | 44.3 | 143 | 23.2 | 3.45 | 20.3 | 3.5 | 21.4 | 4.6 | 13.5 | |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | |
| OREAS 101a (Fusion) Meas | | | | | | 20 | | | | | | | | 799 | 1400 | 130 | 396 | 50.6 | 8.00 | | 5.5 | 31.6 | 6.4 | 18.6 | |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | |
| JR-1 Meas | 14 | 249 | | | | 3 | < 0.5 | < 0.2 | 3 | 1.1 | 20.8 | | 0.8 | | 50.2 | 6.12 | 23.8 | 5.9 | 0.29 | 5.5 | 1.0 | 6.2 | 4.0 | | |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | 0.56 | | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | 3.61 | | |
| NCS DC86318 Meas | | | | | | | | | | | | | | 1960 | 410 | 728 | 3350 | 1730 | 19.3 | 2150 | 480 | 3070 | 578 | 1690 | |
| NCS DC86318 Cert | | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | 3220 | 560 | 1750 | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 21000 | 27700 | 2340 | 6420 | 541 | 88.5 | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107606 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107606 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107611 Orig | < 5 | 26 | 1492 | 62 | 131 | 3 | 0.6 | < 0.2 | < 1 | < 0.5 | < 0.5 | 620 | < 0.4 | 290 | 569 | 67.1 | 260 | 39.2 | 10.2 | 26.5 | 2.9 | 14.6 | 2.4 | 6.0 | |
| 107611 Dup | < 5 | 27 | 1481 | 61 | 98 | 2 | < 0.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 619 | < 0.4 | 303 | 585 | 68.7 | 267 | 40.0 | 10.4 | 27.3 | 3.1 | 15.3 | 2.5 | 6.3 | |
| 107616 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107616 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107625 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 107625 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92971 Orig | 10 | 14 | 1760 | 386 | 38 | 4 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 422 | 2.1 | 4420 | 6770 | 554 | 1640 | 208 | 59.6 | 177 | 18.8 | 88.6 | 13.9 | 35.1 |
| 92971 Split | 11 | 14 | 1762 | 386 | 36 | 4 | < 0.5 | < 0.2 | 2 | < 0.5 | 0.6 | 428 | 2.2 | 4360 | 6570 | 546 | 1600 | 206 | 58.6 | 176 | 18.4 | 86.7 | 13.4 | 34.2 |
| 92973 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92973 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92975 Orig | 25 | 9 | 134 | 106 | 51 | 29 | < 0.5 | < 0.2 | 5 | < 0.5 | < 0.5 | 347 | 4.9 | 393 | 985 | 196 | 1160 | 185 | 32.7 | 63.1 | 5.4 | 22.6 | 3.5 | 9.5 |
| 92975 Split | 25 | 9 | 133 | 103 | 50 | 29 | < 0.5 | 0.2 | 5 | < 0.5 | < 0.5 | 346 | 4.1 | 421 | 1050 | 208 | 1210 | 194 | 35.3 | 67.9 | 5.7 | 23.6 | 3.6 | 9.9 |
| Method Blank Method | < 5 | < 2 | | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U |
|-----------------------------|--------|--------|--------|--------|---------|--------|----------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | 863 | |
| DH-1a Cert | | | | | | | | 910 | |
| DNC-1 Meas | | 1.9 | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | |
| GBW 07113 Meas | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | |
| LKSD-3 Meas | | 2.7 | 0.41 | | < 1 | | | 10.3 | 4.5 |
| LKSD-3 Cert | | 2.70 | 0.400 | | 2.00 | | | 11.4 | 4.60 |
| DR-N Meas | | | | | | | | | |
| DR-N Cert | | | | | | | | | |
| UB-N Meas | | | | | | | | | |
| UB-N Cert | | | | | | | | | |
| W-2a Meas | | 2.1 | | | < 1 | | 8 | 2.9 | 0.5 |
| W-2a Cert | | 2.10 | | | 0.300 | | 9.30 | 2.40 | 0.530 |
| DTS-2b Meas | | | | | | | | | |
| DTS-2b Cert | | | | | | | | | |
| CTA-AC-1 Meas | | 10.7 | 1.07 | 1.6 | | | | 23.0 | 4.2 |
| CTA-AC-1 Cert | | 11.4 | 1.08 | 1.13 | | | | 21.8 | 4.4 |
| BIR-1a Meas | | 1.6 | 0.24 | 0.5 | | | < 5 | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | 3 | | |
| NCS DC86312 Meas | 14.2 | 86.4 | 12.1 | | | | | 26.1 | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | 23.6 | |
| NCS DC70014 Meas | 0.52 | 3.4 | 0.49 | | | | 27200 | | |
| NCS DC70014 Cert | 0.57 | 3.3 | 0.50 | | | | 27200.00 | | |
| NCS DC70009 (GBW07241) Meas | 2.27 | 15.6 | 2.22 | | 2200 | | | | |
| NCS DC70009 (GBW07241) Cert | 2.2 | 14.9 | 2.4 | | 2200.00 | | | | |
| SGR-1b Meas | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.24 | 14.3 | 2.04 | | | | | 50.1 | 133 |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | 51.6 | 135 |
| OREAS 101a (Fusion) Meas | 2.90 | 18.2 | 2.49 | | | | | 36.9 | 422 |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | 2.66 | | | | | 36.6 | 422 |
| JR-1 Meas | 0.69 | 4.7 | 0.69 | 4.3 | 1 | 1.6 | 21 | 26.5 | 9.3 |
| JR-1 Cert | 0.67 | 4.55 | 0.71 | 4.51 | 1.59 | 1.56 | 19.3 | 26.7 | 8.88 |
| NCS DC86318 Meas | 280 | 1830 | 268 | | | | | | |
| NCS DC86318 Cert | 270 | 1840 | 260.0 | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | |
| 107606 Orig | | | | | | | | | |
| 107606 Dup | | | | | | | | | |
| 107611 Orig | 0.80 | 5.0 | 0.74 | 1.2 | < 1 | 0.2 | 97 | 24.0 | 37.8 |
| 107611 Dup | 0.83 | 5.0 | 0.75 | 1.0 | < 1 | 0.2 | 100 | 24.4 | 38.2 |
| 107616 Orig | | | | | | | | | |
| 107616 Dup | | | | | | | | | |
| 107625 Orig | | | | | | | | | |

| Quality Control | | | | | | | | | |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

| | | | | | | | | | |
|---------------------|--------|-------|--------|-------|-----|-------|-----|-------|-------|
| 107625 Dup | | | | | | | | | |
| 92971 Orig | 4.59 | 27.5 | 4.00 | 1.3 | < 1 | 0.3 | 139 | 658 | 1.9 |
| 92971 Split | 4.51 | 26.7 | 3.86 | 1.2 | < 1 | 0.4 | 151 | 652 | 1.8 |
| 92973 Orig | | | | | | | | | |
| 92973 Dup | | | | | | | | | |
| 92973 Orig | | | | | | | | | |
| 92973 Dup | | | | | | | | | |
| 92973 Orig | | | | | | | | | |
| 92973 Dup | | | | | | | | | |
| 92975 Orig | 1.31 | 7.7 | 0.99 | 1.0 | 2 | 0.3 | 167 | 655 | 0.4 |
| 92975 Split | 1.30 | 7.7 | 1.00 | 1.0 | 2 | 0.3 | 156 | 688 | 0.4 |
| Method Blank Method | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |



Date Submitted: 11-Oct-11
Invoice No.: A11-11711-XRF
Invoice Date: 21-Nov-11
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

34 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT **A11-11711-XRF**

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized and somewhat cursive.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |
| 92967 | < 0.003 | 0.047 |
| 92968 | < 0.003 | 0.006 |
| 92969 | < 0.003 | 0.050 |
| 92970 | < 0.003 | 0.013 |
| 107601 | < 0.003 | 0.030 |
| 107602 | < 0.003 | 0.035 |
| 107603 | < 0.003 | 0.029 |
| 107604 | < 0.003 | 0.012 |
| 107605 | < 0.003 | 0.016 |
| 107606 | 0.007 | 0.109 |
| 107607 | 0.003 | 0.069 |
| 107608 | 0.005 | 0.045 |
| 107609 | 0.020 | 0.372 |
| 107610 | 0.033 | 0.524 |
| 107611 | 0.016 | 0.113 |
| 107612 | < 0.003 | 0.018 |
| 107613 | 0.005 | 0.687 |
| 107614 | 0.014 | 0.264 |
| 107615 | 0.007 | 0.104 |
| 107616 | 0.003 | 0.187 |
| 107617 | < 0.003 | 0.013 |
| 107618 | < 0.003 | 0.011 |
| 107619 | < 0.003 | 0.012 |
| 107620 | < 0.003 | 0.022 |
| 107621 | 0.066 | 0.409 |
| 107622 | < 0.003 | 0.041 |
| 107623 | < 0.003 | 0.107 |
| 107624 | < 0.003 | 0.009 |
| 107625 | 0.049 | 1.230 |
| 92971 | 0.003 | 0.034 |
| 92972 | < 0.003 | 0.078 |
| 92973 | < 0.003 | 0.007 |
| 92974 | < 0.003 | 0.008 |
| 92975 | < 0.003 | 0.049 |

Quality Control

| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |

| | | |
|---------------------|---------|---------|
| AC-E Meas | | 0.015 |
| AC-E Cert | | 0.016 |
| OKA-1 Meas | | 0.530 |
| OKA-1 Cert | | 0.529 |
| ZW-C Meas | 0.009 | |
| ZW-C Cert | 0.010 | |
| VS-N Meas | 0.097 | 0.099 |
| VS-N Cert | 0.098 | 0.10 |
| SX18-01 Meas | 0.005 | 0.696 |
| SX18-01 Cert | 0.005 | 0.695 |
| SX18-04 Meas | 0.004 | 1.332 |
| SX18-04 Cert | 0.005 | 1.32 |
| SX18-05 Meas | 0.005 | 0.975 |
| SX18-05 Cert | 0.004 | 0.973 |
| 107611 Orig | 0.017 | 0.113 |
| 107611 Dup | 0.015 | 0.113 |
| 92971 Orig | 0.003 | 0.034 |
| 92971 Split | < 0.003 | 0.034 |
| 92973 Orig | 0.003 | 0.006 |
| 92973 Dup | < 0.003 | 0.007 |
| 92975 Orig | < 0.003 | 0.049 |
| 92975 Split | < 0.003 | 0.051 |
| Method Blank Method | < 0.003 | < 0.003 |
| Blank | | |

**APPENDIX 5: 2010 AND 2011 PROSPECTING POINT LOCATIONS AND
DESCRIPTIONS**

Appendix 5: 2010 and 2011 Prospecting Point Locations and Descriptions

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------|---|--|-----------|
| 2010 | 18 | 536191 | 6312089 | Ashram | 2087790 | RA Reading | - | 1650 | - | - | - | 1-Jul-10 |
| 2010 | 19 | 536169 | 6312065 | Ashram | 2087790 | RA Reading | - | 1800 | - | - | - | 1-Jul-10 |
| 2010 | 20 | 536163 | 6312057 | Ashram | 2087790 | RA Reading | - | 4000 | - | - | - | 1-Jul-10 |
| 2010 | 21 | 536141 | 6312044 | Ashram | 2087790 | RA Reading | - | 3150 | - | - | - | 1-Jul-10 |
| 2010 | 22 | 536161 | 6312031 | Ashram | 2087790 | RA Reading | - | 3500 | - | - | - | 1-Jul-10 |
| 2010 | 23 | 536163 | 6312010 | Ashram | 2087790 | RA Reading | - | 2150 | - | - | - | 1-Jul-10 |
| 2010 | 24 | 536154 | 6312042 | Ashram | 2087790 | RA Reading | - | 3100 | - | - | - | 1-Jul-10 |
| 2010 | 160 | 537519 | 6310232 | Star Trench | 2087774 | RA Reading | - | 160 | - | - | - | 15-Aug-10 |
| 2010 | 320 | 537501 | 6310233 | Star Trench | 2087774 | RA Reading | - | 320 | - | - | - | 15-Aug-10 |
| 2010 | 658 | 537486 | 6310102 | Star Trench | 2087760 | RA Reading | - | 658 | - | - | - | 15-Aug-10 |
| 2010 | 659 | 538000 | 6310180 | Star Trench | 1007657 | RA Reading | - | 659 | - | - | - | 15-Aug-10 |
| 2010 | 900 | 538021 | 6310410 | Southeast | 1007657 | RA Reading | - | 900 | - | - | - | 15-Aug-10 |
| 2010 | 901 | 538399 | 6310527 | Southeast | 1007658 | RA Reading | - | 901 | - | - | - | 15-Aug-10 |
| 2010 | 902 | 538659 | 6310768 | Southeast | 2087775 | RA Reading | - | 902 | - | - | - | 15-Aug-10 |
| 2010 | 900 | 538021 | 6310410 | Southeast | 1007657 | RA Reading | - | 900 | - | - | - | 15-Aug-10 |
| 2010 | 1100 | 538033 | 6310417 | Southeast | 1007658 | RA Reading | - | 1100 | - | - | - | 15-Aug-10 |
| 2010 | 1200 | 537515 | 6310231 | Star Trench | 2087774 | RA Reading | - | 1600 | - | - | 1600 max cps encountered 30 cm in hole dug | 15-Aug-10 |
| 2010 | 28174 | 541322 | 6311737 | MC Exposure | 2111148 | RA Reading | Soil | 7600 | - | - | RA soil dug 15 cm, K = 0, U = 0, Th = 4213 ppm, 7663 cps in-situ | 4-Aug-10 |
| 2010 | 67751 | 539703 | 6309631 | Southeast | 2087765 | Rocks | Boulder | 900 | cc-Carb | - | - | 19-Aug-10 |
| 2010 | 67753 | 539444 | 6309199 | East of Star | 2087752 | Rocks | Outcrop | 150 | Glim | - | v. small OC, ~ 0.25 x 0.5 m, on ridge | 19-Aug-10 |
| 2010 | 67754 | 539647 | 6308911 | East of Star | 2087753 | Rocks | Boulder | -1 | - | - | ang bldr, ~ 7 x 4 x 1 m | 19-Aug-10 |
| 2010 | 67755 | 539465 | 6308590 | East of Star | 2087752 | Rocks | Boulder | 400 | - | - | Centre of bldr field, avg ~ 140 cps, high ~ 400, bldrs range from 1 to ~ 300 m3, same litho for all bldrs | 19-Aug-10 |
| 2010 | 67756 | 539359 | 6308712 | East of Star | 2087752 | Rocks | Boulder | 485 | Gn | - | ang bldr | 20-Aug-10 |
| 2010 | 67757 | 539417 | 6308749 | East of Star | 2087752 | Rocks | Boulder | 240 | cc-Carb | - | v. slumped OC? | 19-Aug-10 |
| 2010 | 67758 | 539226 | 6308957 | East of Star | 2087752 | Rocks | Outcrop? | 380 | dol-Carb | - | OC?, slumped?, 4 m wide x 1.5 m high | 19-Aug-10 |
| 2010 | 67759 | 539128 | 6308995 | East of Star | 2087752 | Rocks | Boulder | -1 | meta-Sed | - | - | 19-Aug-10 |
| 2010 | 67760 | 539013 | 6308848 | South Mag Blowout | 2087751 | Rocks | Outcrop | -1 | meta-Volc | - | 1 x 1 m | 19-Aug-10 |
| 2010 | 67761 | 538911 | 6308931 | South Mag Blowout | 2087751 | Rocks | Boulder | 3000 | dol-Carb | - | - | 19-Aug-10 |
| 2010 | 83307 | 544699 | 6309553 | Hodge-Podge | 2204159 | Rocks | Boulder | 50 | Scht | - | - | 30-Jun-10 |
| 2010 | 83308 | 545020 | 6309839 | Hodge-Podge | 2204159 | Rocks | Outcrop | 50 | Scht | f.g. to v.c.g. (ibd c.g. and f.g. layers of same material), b-gy-gr, N6-N7 (med lt gy-gy), blk-br-gr wthd (shimmery, greasy), fol, msc-bio, chl? (v.f.g.), plag (lrg xtls, w-milky, twinning not obvious), msc (rare, v. gr, radiating/bladed, fibrous) | v. lrg OC, 8 x 6 m, 2 - 4 m high, composite sample taken, 240/14 ? (fol, slumped?), fresh colour varies with g. size | 30-Jun-10 |
| 2010 | 83309 | 545020 | 6309855 | Hodge-Podge | 2204159 | Rocks | Boulder | 55 | Scht | - | Similar bldrs nearby | 30-Jun-10 |
| 2010 | 83310 | 545565 | 6309865 | Hodge-Podge | 2204160 | Rocks | Boulder | 60 | Scht | - | lrg bldr, ~ 1 x 3.5 m | 30-Jun-10 |
| 2010 | 83311 | 545427 | 6309291 | Hodge-Podge | 2204160 | Rocks | Outcrop | 45 | Scht | f.g., med b-gr-gy, cr-lt br to rusty br-w wthd, f. fol, xtl, msc-bio-chl, plag?, cc (bnds, perv, HCl rxn), sul? (few pbls, > 0.5 mm, r-br), alb?, plag? (v.f. bnds, w, xtl, w-pk and chalky wthd), vesicles?-slivers on wthd surf (small, blk, v. soft) | 65 cm high x 2.5 m wide, moss-covered | 30-Jun-10 |
| 2010 | 83312 | 545323 | 6309247 | Hodge-Podge | 2204154 | Rocks | Outcrop | 60 | Scht? | f.g. b-gr-gy, 5B 5/1 (med b-gy), wthd - blk (vesicles-vuggy? nothing penetrates inward), blk-gr-cr with rusty br, rusty br between fol, dull f. fol with lrg beds, msc-plag?-chl?, bio (c.g.) | On top of ridge, 358/18 deg (bedding), 1.8 m long x 0.70 m high | 30-Jun-10 |
| 2010 | 83315 | 536197 | 6312116 | Ashram | 2087790 | Rocks | Boulder | 3500 | Carb | - | Along water line, 3500 cps on bldr, 2100 cps on HS | 1-Jul-10 |
| 2010 | Ss Line1 | 536176 | 6312147 | Ashram | 2087790 | Rocks | Boulder | 2000 | Carb | - | bldr along water line, 2000 cps on bldr, 1350 cps on HS | 1-Jul-10 |
| 2010 | 83317 | 536212 | 6312106 | Ashram | 2087790 | Rocks | Boulder | 3300 | Carb | - | Abnt bldrs around this area, 3300 cps on bldr, 2400 cps on HS | 1-Jul-10 |
| 2010 | 83318 | 535678 | 6313879 | North Glim | 2087807 | Rocks | Outcrop | 400 | Glim | f.g., med b-gy (5B 5/1), dull blk and some rusty og-br parts wthd, bio, py (shiny), riebeckite, Carb 4 (brc by Glim, xcut), qtz (small vns and clsts, 2.5 cm avg), Glim (mod fol) with Carb vns (avg 11 cm thick), abnt small frac throughout | Glim area, OC slightly slumped?, breaking along fol between Carb and Glim (140 deg/70 deg) | 1-Jul-10 |
| 2010 | 83319 | 544580 | 6307025 | Sareille | 2145680 | Rocks | Outcrop | -1 | Scht | - | - | 2-Jul-10 |
| 2010 | 83320 | 545146 | 6306369 | Sareille | 2145669 | Rocks | Outcrop | 1000 | Scht | - | OC ~ 1 m2, other small OC's radiating 20 m radius, same litho | 2-Jul-10 |
| 2010 | 83321 | 545112 | 6306111 | Sareille | 2145669 | Rocks | Outcrop | 160 | Scht | - | fol and deformation | 2-Jul-10 |
| 2010 | 83322 | 544994 | 6305646 | Sareille | 2145669 | Rocks | Boulder | 30 | Scht | - | v. ang bldrs | 2-Jul-10 |
| 2010 | 83323 | 539757 | 6312178 | Beckling | 2111150 | Rocks | Boulder | 180 | Scht | - | bldr is ~ 2.5 x 4 m | 10-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|------------------|---------|------------------|----------|---------|-----------------|--|---|-----------|
| 2010 | 83324 | 539775 | 6311971 | Enterprise | 2087788 | Rocks | Outcrop | 300 | cc g-Scht | f.g., med b-gy (5B 5/1), lt br-blk wthd (rusty, str frost heave throughout, fis, v. fol), v. f. fol, chl? (micaceous), cc (vnlets, v. small, ~ 1 - 2 mm), small frac throughout, HCl rxn | greasy-sheen, ~ 20 - 25 m wide, 3 m high max, 150 - 300 cps | 10-Jul-10 |
| 2010 | 83325 | 540993 | 6311957 | MC Exposure | 2111147 | Rocks | Boulder | 4900 | Carb / Glim | - | bldr buried, extremely hard, hard to get a fresh surf | 10-Jul-10 |
| 2010 | 83326 | 535804 | 6312140 | Northwest | 1007661 | Rocks | Outcrop | -1 | Glim | - | - | 30-Jun-10 |
| 2010 | 83327 | 535804 | 6312133 | Northwest | 1007661 | Rocks | Outcrop | -1 | Glim | - | - | 30-Jun-10 |
| 2010 | 83328 | 535808 | 6312132 | Northwest | 1007661 | Rocks | Outcrop | -1 | Glim | - | - | 30-Jun-10 |
| 2010 | 83329 | 536043 | 6311095 | East Valcourt | 2087783 | Rocks | Outcrop | 1000 | dol-Carb | - | - | 3-Jul-10 |
| 2010 | 83330 | 536100 | 6311180 | East Valcourt | 2087783 | Rocks | Outcrop | -1 | dol-Carb | - | - | 3-Jul-10 |
| 2010 | 83331 | 536098 | 6311194 | East Valcourt | 2087783 | Rocks | Outcrop | -1 | dol-Carb | - | - | 3-Jul-10 |
| 2010 | 83332 | 535780 | 6313890 | North Glim | 2087807 | Rocks | Outcrop | 1900 | Carb (S4) | - | Carb 4 (like Ashram), ~ 1900 cps on OC surf | 3-Jul-10 |
| 2010 | 83334 | 538332 | 6309953 | Star Trench | 2087762 | Rocks | Outcrop | 170 | Scht | v.f.g., med b-gy, str fol, msc (chl?), looks greasy | Mostly moss-covered, 100/15, no good bedding plane | 4-Jul-10 |
| 2010 | 83335 | 538327 | 6310013 | Star Trench | 2087762 | Rocks | Boulder | 900 | - | - | cps 300 - 900 max | 4-Jul-10 |
| 2010 | 83336 | 538421 | 6310333 | Southeast | 1007658 | Rocks | Outcrop | 250 | dol-Carb | - | lrg OC trending eastward (wpts OCapr10-079-081) | 4-Jul-10 |
| 2010 | 83337 | 538458 | 6310568 | Southeast | 1007658 | Rocks | Boulder | 2800 | Carb | - | bldr field, 1300 - 2800 cps, 780 cps on sample | 4-Jul-10 |
| 2010 | 83338 | 538384 | 6310291 | Southeast | 1007658 | Rocks | Outcrop | 325 | dol-Carb | - | - | 5-Jul-10 |
| 2010 | 083341 | 537414 | 6310160 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb | - | - | 7-Jul-10 |
| 2010 | 83342 | 537411 | 6310158 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb | - | - | 7-Jul-10 |
| 2010 | 83343 | 537407 | 6310154 | Star Trench | 2087774 | Rocks | Outcrop | -1 | Non-Carb | - | - | 7-Jul-10 |
| 2010 | 83342 | 537411 | 6310158 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb | - | - | 7-Jul-10 |
| 2010 | 83345 | 537302 | 6310065 | Star Trench | 2087760 | Rocks | Outcrop | -1 | dol-Carb | - | - | 7-Jul-10 |
| 2010 | 83346 | 537283 | 6310085 | Star Trench | 2087760 | Rocks | Outcrop? | 900 | Glim | - | Strike length is NE | 7-Jul-10 |
| 2010 | 83347 | 537292 | 6310074 | Star Trench | 2087760 | Rocks | Outcrop | -1 | Carb | - | - | 7-Jul-10 |
| 2010 | 83348 | 537279 | 6310089 | Star Trench | 2087760 | Rocks | Subcrop | 3000 | Glim | - | Glim at ctc to Carb | 8-Jul-10 |
| 2010 | 83349 | 537285 | 6310077 | Star Trench | 2087760 | RA Reading | Soil | 5500 | - | - | Soil sample, mag abnt, high cps reading, ~ 5500 cps in hole | 8-Jul-10 |
| 2010 | 83350 | 537309 | 6310052 | Star Trench | 2087760 | Rocks | Subcrop | 6800 | si-Carb | - | - | 8-Jul-10 |
| 2010 | 83351 | 537024 | 6310148 | Star Trench | 2087774 | Rocks | - | 600 | Carb | - | Area 5 x 5 m | 5-Jul-10 |
| 2010 | 83352 | 537315 | 6310040 | Star Trench | 2087760 | Rocks | Subcrop | -1 | si-Carb | - | - | 8-Jul-10 |
| 2010 | 83353 | 537316 | 6310020 | Star Trench | 2087760 | Rocks | Subcrop | 4000 | dol-Carb | - | ~ 4000 cps in hole | 8-Jul-10 |
| 2010 | 83354 | 537350 | 6310027 | Star Trench | 2087760 | Rocks | Subcrop | 2000 | cc-Carb | - | - | 8-Jul-10 |
| 2010 | 83355 | 537398 | 6310054 | Star Trench | 2087760 | Rocks | Boulder | 1000 | dol-Carb | - | - | 8-Jul-10 |
| 2010 | 83356 | 541032 | 6311922 | MC Exposure | 2111147 | Rocks | Boulder | 1000 | - | - | - | 10-Jul-10 |
| 2010 | 83357 | 536736 | 6313489 | Miranna | 2087799 | Rocks | Boulder | 1200 | dol-Carb | - | 1200 cps on bldr | 13-Jul-10 |
| 2010 | 83358 | 536800 | 6313505 | Miranna | 2087799 | Rocks | Boulder | 1150 | dol-Carb | - | 1150 cps on bldr | 13-Jul-10 |
| 2010 | 83359 | 537139 | 6313365 | Miranna | 2087800 | Rocks | Boulder | 650 | dol-Carb | - | - | 13-Jul-10 |
| 2010 | 83360 | 537141 | 6313361 | Miranna | 2087800 | Rocks | Boulder | 2700 | dol-Carb | - | - | 13-Jul-10 |
| 2010 | 83361 | 537145 | 6313309 | Miranna | 2087800 | Rocks | Boulder | 2400 | dol-Carb | pk-gy, qtz, intruded Glim? bnd | bldr by 2 other bldrs, 1 which looks similar (2100 cps), the other 1 is 1600 cps (described left) | 13-Jul-10 |
| 2010 | 83362 | 537212 | 6313304 | Miranna | 2087800 | Rocks | Boulder | 400 | Glim | - | lrg Glim bldr with Carb 3? intruded | 13-Jul-10 |
| 2010 | 83363 | 537386 | 6313301 | Miranna | 2087800 | Rocks | Boulder | 2000 | dol-Carb | - | 2000 cps on bldr | 13-Jul-10 |
| 2010 | 28151 | 537393 | 6313055 | Miranna | 2087800 | Rocks | Boulder | 8500 | - | - | Hot ground, 5000 - 8500 cps, dug about 2 ft, found 2 rocks, soil sample 28151 | 13-Jul-10 |
| 2010 | 83365 | 537380 | 6313022 | Miranna | 2087800 | Rocks | Boulder | 4700 | dol-Carb | - | Rich soil on top | 13-Jul-10 |
| 2010 | 83366 | 537361 | 6312963 | Miranna | 2087800 | Rocks | Outcrop | 325 | dol-Carb | - | - | 13-Jul-10 |
| 2010 | 83367 | 537326 | 6312966 | Miranna | 2087800 | Rocks | Boulder | 3000 | dol-Carb | - | - | 13-Jul-10 |
| 2010 | 83368 | 537507 | 6313024 | Miranna | 2087801 | Rocks | Boulder | 1700 | dol-Carb | - | bldr field | 14-Jul-10 |
| 2010 | 83369 | 537491 | 6313141 | Miranna | 2087800 | Rocks | Boulder | 2000 | dol-Carb | - | - | 14-Jul-10 |
| 2010 | 83370 | 537529 | 6313132 | Miranna | 2087801 | Rocks | Boulder | 3000 | dol-Carb | ukn min (f.g., pk, wthg product?, higher cps) | One side of bldr had 3000 cps, other side 550 cps | 14-Jul-10 |
| 2010 | 8371 | 537397 | 6312750 | Miranna | 2087792 | Rocks | Boulder | 2000 | dol-Carb | - | OtherRA bldrs around (1200 - 2200 cps), all same material, bldrs in area are sparse, soil pretty RA (400 - 900 cps) | 14-Jul-10 |
| 2010 | 83372 | 537373 | 6312771 | Miranna | 2087792 | Rocks | Boulder | 3000 | dol-Carb | - | 3000 cps on bldr | 14-Jul-10 |
| 2010 | 83373 | 537371 | 6312789 | Miranna | 2087792 | Rocks | Boulder | 3000 | dol-Carb | - | - | 14-Jul-10 |
| 2010 | 83374 | 537371 | 6312980 | Miranna | 2087800 | Rocks | Outcrop | 375 | dol-Carb | Carb 3 intruded by Glim | Another sample from OCAD-019, another section of OC, ridge face exposed 1 x 2 m wide, moss-covered mostly | 14-Jul-10 |
| 2010 | 83376 | 537997 | 6309590 | Star Trench | 2087761 | Rocks | Outcrop | 500 | cc-Carb? | - | OC ~ 500 cps, ridge ~ 30 m long x 2 m high, ctc at 008/18 deg | 17-Aug-10 |
| 2010 | 83377 | 537990 | 6309594 | Star Trench | 2087761 | Rocks | Outcrop | -1 | Glim | - | - | 17-Aug-10 |
| 2010 | 83378 | 538207 | 6309630 | Star Trench | 2087762 | Rocks | Outcrop | 270 | dol-Carb | - | OC very overgrown with vegetation, showing over ~ 2 x 4 m on ridge, possible frost heave or bldr (but v. v. ang) | 17-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|-------------------|---------|------------------|-----------------|---------|-----------------|--|---|-----------|
| 2010 | 83379 | 538445 | 6309499 | Star Trench | 2087762 | Rocks | Outcrop | 500 | Glim | - | OC is 65 x 20 m, mostly covered with vegetation, exposed area 3 x 3 m, 150 - 500 cps | 17-Aug-10 |
| 2010 | 83380 | 538490 | 6309543 | Star Trench | 2087762 | Rocks | Boulder | 270 | dol-Carb | - | - | 17-Aug-10 |
| 2010 | 83381 | 538491 | 6309543 | Star Trench | 2087762 | Rocks | Subcrop | 440 | dol-Carb | - | - | 17-Aug-10 |
| 2010 | 83382 | 538642 | 6309561 | Star Trench | 2087763 | Rocks | Boulder | -1 | dol-Carb | - | wk fol | 17-Aug-10 |
| 2010 | 83383 | 540509 | 6307902 | South Mag Blowout | 2087740 | Rocks | Boulder | 700 | dol-Carb | - | bldr ~ 0.75 x 0.5 m | 18-Aug-10 |
| 2010 | 83384 | 540512 | 6307907 | South Mag Blowout | 2087740 | Rocks | Boulder | -1 | Qtz | - | qtz from vn from bldr from which sample 83383 was taken | 18-Aug-10 |
| 2010 | 83385 | 540527 | 6307899 | South Mag Blowout | 2087740 | Rocks | Boulder | 180 | Non-Carb | - | 180 cps BG and on sample | 18-Aug-10 |
| 2010 | 83386 | 540534 | 6307849 | South Mag Blowout | 2087740 | Rocks | Boulder | 110 | Non-Carb | slightly fol | 110 cps BG and bldr | 18-Aug-10 |
| 2010 | 83387 | 540507 | 6307806 | South Mag Blowout | 2087740 | Rocks | Boulder | 115 | Non-Carb | - | bldr ~ 2 x 2 m, 115 cps BG and bldr | 18-Aug-10 |
| 2010 | 83388 | 540485 | 6307764 | South Mag Blowout | 2087740 | Rocks | Boulder | 90 | Non-Carb | - | bldr ~ 3 x 2 m, 90 cps BG and bldr | 18-Aug-10 |
| 2010 | 83389 | 540427 | 6307644 | South Mag Blowout | 2087740 | Rocks | Boulder | 280 | Non-Carb | - | - | 18-Aug-10 |
| 2010 | 83390 | 540408 | 6307584 | South Mag Blowout | 2087740 | Rocks | Boulder | 160 | dol-Carb | - | 160 cps BG and bldr | 18-Aug-10 |
| 2010 | 83391 | 540404 | 6307578 | South Mag Blowout | 2087740 | Rocks | Boulder | 250 | dol-Carb | - | - | 18-Aug-10 |
| 2010 | 83392 | 540419 | 6307534 | South Mag Blowout | 2087740 | Rocks | Boulder | -1 | Qtz | - | qtz v. dirty, vn ~ 30 x 20 cm, 2 - 3 cm deep | 18-Aug-10 |
| 2010 | 83393 | 540403 | 6307547 | South Mag Blowout | 2087740 | Rocks | Boulder | 260 | Carb? | - | Host rock to qtz vns | 18-Aug-10 |
| 2010 | 83394 | 540222 | 6307604 | South Mag Blowout | 2087740 | Rocks | Boulder | 100 | Non-Carb | - | - | 18-Aug-10 |
| 2010 | 83396 | 540458 | 6307598 | South Mag Blowout | 2087740 | Rocks | Boulder | 260 | Non-Carb | v. frac, blocky looking, sharp edges, v. hard | lrg bldr | 18-Aug-10 |
| 2010 | 83397 | 540508 | 6307704 | South Mag Blowout | 2087740 | Rocks | Boulder | 800 | dol-Carb | - | - | 18-Aug-10 |
| 2010 | 83398 | 540860 | 6307760 | South Mag Blowout | 2087741 | Rocks | Outcrop | 450 | Scht | f.g.-m.g., b-gy, gy-br (mica Scht) wthd, well fol and lineation, cc (small vnlets), sul (throughout, diss, trace), blk min (abnt throughout, shiny, bio?), sedimentary features present (x-bdg and ripples), dol-Carb intruding Scht | Huge OC, 40 m x 40 m, looks "pitted", beds finely laminated | 18-Aug-10 |
| 2010 | 83399 | 540865 | 6307787 | South Mag Blowout | 2087741 | Rocks | Outcrop | -1 | amph Scht | - | - | 18-Aug-10 |
| 2010 | 83400 | 540870 | 6307798 | South Mag Blowout | 2087741 | Rocks | Outcrop | -1 | Scht | - | - | 18-Aug-10 |
| 2010 | 87407 | 539945 | 6312632 | Beckling | 2111150 | Rocks | Boulder | 2300 | dol-Carb | - | - | 8-Jul-10 |
| 2010 | 87408 | 540231 | 6312755 | Beckling | 2111151 | Rocks | Boulder | 5000 | Non-Carb | - | - | 10-Jul-10 |
| 2010 | 87409 | 540269 | 6312705 | Beckling | 2111151 | Rocks | Subcrop-Outcrop | 4000 | dol-Carb | - | Found with scint, RR10-30 OC has RA perimetre, not like previous high cps rocks | 10-Jul-10 |
| 2010 | 87410 | 540265 | 6312694 | Beckling | 2111151 | Rocks | Boulder | 3000 | Non-Carb | - | Same glittery rock? (prob), high s.g., 2000 - 3000 cps | 10-Jul-10 |
| 2010 | 87411 | 540497 | 6312607 | Beckling | 2111151 | Rocks | Boulder | 500 | dol-Carb | - | Looks similar to last OC rock at surf, nothing similar surrounding, moving E 100 m subcrop back to g-Scht | 10-Jul-10 |
| 2010 | 87412 | 540527 | 6312602 | Beckling | 2111151 | Rocks | Boulder | 300 | dol-Carb | - | - | 10-Jul-10 |
| 2010 | 87413 | 540821 | 6312566 | MC Exposure | 2142206 | Rocks | Outcrop | 400 | dol-Carb | - | - | 10-Jul-10 |
| 2010 | 87414 | 540941 | 6312574 | MC Exposure | 2142206 | Rocks | Subcrop | 3000 | dol-Carb | - | Hot all over | 10-Jul-10 |
| 2010 | 87415 | 540864 | 6312337 | MC Exposure | 2142206 | Rocks | Subcrop | 2000 | Non-Carb | - | 1000 - 2000 cps | 10-Jul-10 |
| 2010 | 87416 | 540852 | 6312330 | MC Exposure | 2142206 | Rocks | Boulder | 500 | dol-Carb | - | Float probably, no acid test | 10-Jul-10 |
| 2010 | 87417 | 540453 | 6312589 | Beckling | 2111151 | Rocks | Boulder | 400 | dol-Carb | - | - | 10-Jul-10 |
| 2010 | 87418 | 540919 | 6312231 | MC Exposure | 2142206 | Rocks | Boulder | -1 | Non-Carb | - | - | 10-Jul-10 |
| 2010 | 87419 | 540925 | 6312240 | MC Exposure | 2142206 | Rocks | Subcrop? | 500 | Non-Carb | - | - | 10-Jul-10 |
| 2010 | 87420 | 540257 | 6312723 | Beckling | 2111151 | Rocks | - | -1 | Non-Carb | - | - | 10-Jul-10 |
| 2010 | 87421 | 536751 | 6310175 | East Valcourt | 2087773 | Rocks | Subcrop | 500 | Non-Carb | - | - | 11-Jul-10 |
| 2010 | 87422 | 537632 | 6312991 | Miranna | 2087801 | Rocks | Boulder | 1200 | dol-Carb | - | 1200 cps on bldr | 15-Jul-10 |
| 2010 | 87423 | 537822 | 6312644 | Miranna | 2087793 | Rocks | Boulder | 2900 | dol-Carb | - | Dug 0.6 m, Th = 450 ppm, U = 60 ppm, 2900 cps on bldr | 15-Jul-10 |
| 2010 | 83345 | 537302 | 6310065 | Star Trench | 2087760 | Rocks | Subcrop | -1 | dol-Carb | - | - | 7-Jul-10 |
| 2010 | 87439 | 537866 | 6310986 | Southeast | 1007657 | Rocks | Boulder | -1 | Glim / Carb | m.g., gr-blk, elongated clsts, dol, mg, Glim (brc) in dol-Carb | - | 12-Jul-10 |
| 2010 | 87440 | 537850 | 6310910 | Southeast | 1007657 | Rocks | Boulder | 1100 | dol-Carb | - | 800 cps on surf, dug 0.5 m to 1100 cps in hole | 12-Jul-10 |
| 2010 | 87441 | 537826 | 6310872 | Southeast | 1007657 | Rocks | Boulder | -1 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87442 | 537773 | 6310829 | Southeast | 1007657 | Rocks | Outcrop | 7000 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87443 | 537774 | 6310812 | Southeast | 1007657 | Rocks | Boulder | 1400 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87444 | 537839 | 6310595 | Southeast | 1007657 | Rocks | Boulder | 300 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87445 | 537844 | 6310582 | Southeast | 1007657 | Rocks | Boulder | 1300 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87446 | 537892 | 6310561 | Southeast | 1007657 | Rocks | Outcrop? | 1300 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87447 | 537902 | 6310561 | Southeast | 1007657 | Rocks | Outcrop? | -1 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87448 | 538131 | 6310763 | Southeast | 1007658 | Rocks | Boulder | -1 | Non-Carb | - | - | 12-Jul-10 |
| 2010 | 87449 | 538175 | 6310499 | Southeast | 1007658 | Rocks | Outcrop | -1 | Glim | - | - | 12-Jul-10 |
| 2010 | 87450 | 537980 | 6310461 | Southeast | 1007657 | Rocks | Outcrop | -1 | Non-Carb | - | - | 12-Jul-10 |
| 2010 | 87451 | 537683 | 6310606 | Southeast | 1007657 | Rocks | Boulder | -1 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87452 | 537764 | 6310641 | Southeast | 1007657 | Rocks | Boulder | -1 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87453 | 537778 | 6310808 | Southeast | 1007657 | Rocks | Subcrop | -1 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87454 | 537908 | 6312701 | Miranna | 2087793 | Rocks | Boulder | 2800 | dol-Carb | - | Dug 0.3 m, 2800 cps on bldr | 15-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|---|--|-----------|
| 2010 | 87455 | 537932 | 6312729 | Miranna | 2087793 | Rocks | Outcrop | 560 | dol-Carb | - | 560 cps on surf | 15-Jul-10 |
| 2010 | 87456 | 537907 | 6312757 | Miranna | 2087793 | Rocks | Boulder | 1800 | Non-Carb | - | 1800 cps on surf | 15-Jul-10 |
| 2010 | 87457 | 537903 | 6312766 | Miranna | 2087793 | Rocks | Boulder | 1500 | cc-Carb | - | 1500 cps on surf | 15-Jul-10 |
| 2010 | 87458 | 537827 | 6312869 | Miranna | 2087793 | Rocks | Outcrop | 1200 | dol-Carb | - | 2 m high x 25 m long, 1200 cps on surf, not well exposed | 15-Jul-10 |
| 2010 | 87476 | 537814 | 6310872 | Southeast | 1007657 | Rocks | Boulder | 7000 | dol-Carb | - | Old trench | 12-Jul-10 |
| 2010 | 87477 | 537763 | 6311160 | Southeast | 1007659 | Rocks | Boulder | 900 | dol-Carb | mg-Carb (Carb 2?) | 900 cps on ground | 12-Jul-10 |
| 2010 | 87478 | 537754 | 6311213 | Southeast | 1007659 | Rocks | Boulder | 1700 | dol-Carb | mg-Carb (Carb 4) | 1700 cps on surf, 900 cps bag, same Carb as Ashram bldr field and EC10-027 | 12-Jul-10 |
| 2010 | 87479 | 537747 | 6311234 | Southeast | 1007659 | Rocks | Boulder | 2400 | dol-Carb | Carb 3 intruding Carb 1/2, etc | bldr field, chip composite | 12-Jul-10 |
| 2010 | 87480 | 537759 | 6311234 | Southeast | 1007659 | Rocks | Boulder | 5800 | dol-Carb | - | bldr field, 5800 cps in hole surrnd by other bldrs, same as Ashram | 12-Jul-10 |
| 2010 | 87481 | 537758 | 6311237 | Southeast | 1007659 | Rocks | Boulder | 200 | Glim | - | Dead cps | 12-Jul-10 |
| 2010 | 87482 | 537812 | 6311247 | Southeast | 1007659 | Rocks | Boulder | 5800 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87483 | 537767 | 6311334 | Miranna | 1007659 | Rocks | Boulder | 2200 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87484 | 537746 | 6311367 | Miranna | 1007659 | Rocks | Boulder | 2200 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87485 | 537699 | 6311418 | Miranna | 1007659 | Rocks | Boulder | 1800 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87486 | 537706 | 6311440 | Miranna | 1007659 | Rocks | Boulder | 1800 | dol-Carb | - | - | 12-Jul-10 |
| 2010 | 87489 | 536508 | 6311929 | Ashram | 2087784 | Rocks | Outcrop | 2700 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87490 | 536320 | 6311998 | Ashram | 2087790 | Rocks | Outcrop | 2000 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87491 | 536209 | 6312325 | Ashram | 2087790 | Rocks | Outcrop | 4000 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87492 | 536124 | 6312744 | Northwest | 2087790 | Rocks | Outcrop | -1 | cc-Carb | - | - | 19-Jul-10 |
| 2010 | 87493 | 536126 | 6312745 | Northwest | 2087790 | Rocks | Outcrop | -1 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87494 | 536090 | 6312763 | Northwest | 2087790 | Rocks | Outcrop | 1500 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87495 | 536103 | 6312719 | Northwest | 2087790 | Rocks | Boulder | -1 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87496 | 536042 | 6312680 | Northwest | 2087790 | Rocks | Outcrop | -1 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87497 | 536309 | 6312726 | Northwest | 2087790 | Rocks | Outcrop | -1 | cc-Carb | - | - | 19-Jul-10 |
| 2010 | 87498 | 536482 | 6312541 | Ashram | 2087790 | Rocks | Boulder | 900 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87499 | 536376 | 6312754 | Northwest | 2087790 | Rocks | Boulder | -1 | dol-Carb | - | - | 19-Jul-10 |
| 2010 | 87500 | 536370 | 6312770 | Northwest | 2087790 | Rocks | Subcrop | -1 | cc-Carb | - | - | 19-Jul-10 |
| 2010 | 87601 | 537150 | 6310250 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb | main part of OC (lower) gy, mass, frac throughout (fl-infilled?), dol / top part mass, dol (w, clean, > 95%), mbl? | 2 - 4 m high x > 5 m long to NW, continuation of same hill, OC has 2 distinct parts | 22-Jul-10 |
| 2010 | 87602 | 537140 | 6310283 | Star Trench | 2087774 | Rocks | Outcrop | 2000 | non-Carb | mostly f.g., met, dol? (w, vn, xcut) | 1 m2, 2 > 1000 cps found, 1000 - 2000 cps | 22-Jul-10 |
| 2010 | 87603 | 537011 | 6310587 | East Valcourt | 2087773 | Rocks | Boulder | -1 | cc-Carb | - | - | 22-Jul-10 |
| 2010 | 87604 | 536994 | 6310668 | East Valcourt | 2087773 | Rocks | Outcrop | -1 | dol-Carb | Description of sample 87604 is for bottom of OC / top has dol (m.-c.g., clear pods with blk bits), py (trace), fl (trace), gradational ctc with dk gy material | 2 x 4 m, abnt bushes around | 22-Jul-10 |
| 2010 | 87612 | 541397 | 6311628 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | Carb / Scht | Scht - f.g., str fol, bio, sul (few) / ctc with Carb - ol, rusty r patches, fl, py, suc text / Sed-Carb - Augerine Na pyx, Na abnt or arf, bio converted to NA, bio (f.g., abnt, along etc), qtz? (unusual vns), very late?, mottled | lrg OC, deformed in the sequence, Carb is intruding Scht along fol of Scht; 330/35 (NE etc), K = 0, Th = 461.5 ppm, U = 3.6 ppm | 4-Aug-10 |
| 2010 | 87613 | 541377 | 6311663 | MC Exposure | 2111148 | Rocks | Outcrop | 3000 | Carb / Scht | Carb (w) and Scht etc, etc provides abnt bio-phl | ctc on top of hill, could be like Glim trench with 6% Nb, 2000 ppm Ta, percolation (?) with ctc, sample is Mg/Fe Carb | 4-Aug-10 |
| 2010 | 87614 | 541371 | 6311653 | MC Exposure | 2111148 | Rocks | Outcrop | 1200 | dol-Carb | - | Along the same ridge that connects to 87612, no ctc with Scht but same Carb; ridge has three OCs (small) on either side, going S + N, total distance 10 m, separated by vegetation | 4-Aug-10 |
| 2010 | 87617 | 541341 | 6311731 | MC Exposure | 2111148 | Rocks | Boulder | 1800 | dol-Carb | - | Similar to Ashram, HS taken, corresponds to OC in 87612 | 4-Aug-10 |
| 2010 | 87618 | 541307 | 6311724 | MC Exposure | 2111148 | Rocks | Boulder | -1 | dol-Carb | - | 1 x 2 m bldr (sub-ang), K = 0, U = 0, Th = 291 ppm | 4-Aug-10 |
| 2010 | 87619 | 535449 | 6314080 | North Glim | 2111154 | Rocks | Boulder | 1000 | dol-Carb | - | - | 5-Aug-10 |
| 2010 | 87620 | 535529 | 6314041 | North Glim | 2087807 | Rocks | Boulder | 2300 | dol-Carb | - | - | 5-Aug-10 |
| 2010 | 87621 | 535589 | 6314012 | North Glim | 2087807 | Rocks | Boulder | 1800 | dol-Carb | - | - | 5-Aug-10 |
| 2010 | 87626 | 537278 | 6312995 | Miranna | 2087800 | RA Reading | Soil | 3000 | Non-Carb | - | - | 3-Aug-10 |
| 2010 | 87627 | 537242 | 6312718 | Miranna | 2087792 | Rocks | Boulder | 2000 | cc-Carb | - | - | 3-Aug-10 |
| 2010 | 87628 | 537315 | 6312186 | Miranna | 2087792 | Rocks | Boulder | 1400 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87629 | 537508 | 6311873 | Miranna | 2087785 | Rocks | Boulder | 1700 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87630 | 537551 | 6311828 | Miranna | 1007659 | Rocks | Boulder | 4000 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87631 | 537612 | 6311807 | Miranna | 1007659 | Rocks | Boulder | 5600 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87632 | 537634 | 6311789 | Miranna | 1007659 | Rocks | Boulder | 6100 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87633 | 537923 | 6311870 | Miranna | 1007659 | Rocks | Boulder | -1 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87634 | 537984 | 6311898 | Miranna | 1007659 | Rocks | Boulder | 1450 | dol-Carb | - | - | 3-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|------------------|---------|------------------|---------|---------|--------------------|---|--|-----------|
| 2010 | 87635 | 538262 | 6312131 | Miranna | 2087794 | Rocks | Boulder | 2100 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87639 | 532869 | 6315998 | Lac Douay | 2142229 | Rocks | Boulder | 160 | meta-Sed | - | bldr 2 x 4 x 2 m, distinct fol, avg cps 110, max 160 | 9-Aug-10 |
| 2010 | 87642 | 537475 | 6310108 | Star Trench | 2087760 | Rocks | Boulder | 1400 | dol-Carb | - | - | 15-Aug-10 |
| 2010 | 87643 | 537510 | 6310231 | Star Trench | 2087774 | Rocks | Boulder | 1600 | dol-Carb | - | 1200 cps BG, 1600 on ~ 30 cm, area ~ 5 x 10 m (dyke running through?), cps down to 150 outside of hot area | 15-Aug-10 |
| 2010 | 87644 | 538040 | 6310300 | Southeast | 1007658 | Rocks | Boulder | 1400 | dol-Carb | - | 1000 cps on surf, 1400 cps below (~ 20 m), area ~ 10 x 15 m, avg 150 cps | 15-Aug-10 |
| 2010 | 87651 | 535640 | 6313983 | North Glim | 2087807 | Rocks | Boulder | 7000 | Carb | fl | - | 5-Aug-10 |
| 2010 | 87654 | 535928 | 6314105 | North Glim | 2087807 | Rocks | Boulder | 2100 | carb | - | - | 5-Aug-10 |
| 2010 | 87658 | 535156 | 6314263 | North Glim | 2111154 | Rocks | Boulder | 3300 | dol-Carb | - | - | 5-Aug-10 |
| 2010 | 87660 | 537687 | 6311283 | Southeast | 1007659 | Rocks | Boulder | 2500 | dol-Carb | c.g., lt ol-gy, dk br-r wthd, fl (blebs, gy-p, abnt, diss), Glim (stringers), xlin, blebs possibly pych? | bldr quite ang, resembles a heart shape | 12-Aug-10 |
| 2010 | 87662 | 537569 | 6310647 | Southeast | 1007657 | Rocks | Boulder | 300 | cc-Carb | f.g., b-gr, gy-br wthd, fl patches, shimmering min throughout (ph?), ukn min (minor, br wth patch, bio?), sul (trace) | bldr chip, sub-ang, ~ 1 x 0.8 m, BG ~ 100 cps | 12-Aug-10 |
| 2010 | 87665 | 538058 | 6309749 | Star Trench | 2087762 | Rocks | Outcrop | 400 | WR / dol-Carb dyke | m.g., gy / dol-Carb (vns) - f.g.-m.g., br, abnt, sul (trace), Carb vnlets throughout, v. hard | 250-300 cps avg, at lrgst exposure OC is ~ 30 m wide, v. flat face, difficult to get sample off (OC-AP-001) | 17-Aug-10 |
| 2010 | 87666 | 538082 | 6309828 | Star Trench | 2087762 | Rocks | Outcrop | 1400 | dol-Carb | f.g., m.g., b-gy, dk og-br to br-gy wthd, qtz (vnlets, abnt, < 1 cm), bio? (layers), b min (good cleavage, shiny, soft, mol?), some pitted wthg | 10 m wide x 2 m high, v. moss and tree covered, abnt frost heave (OC-AP-002) | 17-Aug-10 |
| 2010 | 87667 | 538138 | 6310058 | Star Trench | 2087762 | Rocks | Subcrop | 1800 | dol-Carb | - | Flat subcrop, hard to get sample, mini-trench dug (0.5 m x 2.5 m long, sample 87667 and HS-AP-002 in, etc zone ~ in between | 17-Aug-10 |
| 2010 | 87668 | 538203 | 6310035 | Star Trench | 2087762 | Rocks | Outcrop | 900 | dol-Carb | f.g., gr-gy, bio (flakes, c.g.), lt og-br wthd | ~ 7 m x 1 m high, mostly tree and moss-covered, abnt frost heave | 17-Aug-10 |
| 2010 | 87669 | 538476 | 6310011 | Star Trench | 2087762 | Rocks | Outcrop | 1200 | dol-Carb | f.g.-m.g., br-gy, sul (common), phenos? (y), mica Scht intruded by Carb (higherRA) | 5 x 0.5 m, etc to bio Scht, 300 deg/68 deg (E, RHR, fol), mostly moss-covered, 1000 cps max, 400 cps avg, nearby bldr 1200 cps, abnt frost heave | 17-Aug-10 |
| 2010 | 87670 | 538578 | 6310134 | Southeast | 2087763 | Rocks | Outcrop | 1000 | Scht | Scht - c.g., gy,dk br-blk wthd, suc, intruded into Glim (v.c.g., < 1.5 cm flakes) / Carb - wthd og, bio (huge xtls) | Mica Scht with intruded Carb, < 1000 cps at intruded Carb, 326 deg/67 deg (E, RHR, fol), huge OC, ~ 30 m wide x 4 m high, 400 cps avg | 17-Aug-10 |
| 2010 | 87671 | 538765 | 6310172 | Southeast | 2087775 | Rocks | Boulder | 2000 | cc-Carb | - | lrg bldr field, ~ 50 m wide all along ridge, 400 - 1200 cps, 650 avg in area at surf, sample is 2000 cps after digging | 17-Aug-10 |
| 2010 | 87676 | 535007 | 6314289 | North Glim | 2111154 | Rocks | Outcrop | 280 | mag Scht | f.g., cr-br, lt gy-br wthd,wkly-mod fol, mag (abnt, ~ 20%), bio? (blobs, f.g., blk, within the cr Carb (vnlets as well), dull), dol-Carb vns, phenos < 1 mm, euh pits where mag used to be | OC 4 x 50 m, Schtd? WR?, 006/34? (SE, RHR), v. mag abnt,could be inaccurate. | 19-Aug-10 |
| 2010 | 87677 | 535051 | 6314341 | North Glim | 2111154 | Rocks | Outcrop | 300 | Glim | dk br-blk (v. uneven) wthd, ukn min (in patches, f.g., y-cr, mass), cc-Carb vnlets and clsts? | ~ 5 m wide x 1 m high | 19-Aug-10 |
| 2010 | 87678 | 535062 | 6314364 | North Glim | 2111154 | Rocks | Outcrop | 500 | dol-Carb | v.f.g., gy, dk br (well fol, frac) wthd, fol, sul (abnt, v.c.g., sometimes wthd r), intruded mafic-rich stringers | fol going different directions, couldn't get good msmt | 19-Aug-10 |
| 2010 | 87679 | 535052 | 6314388 | North Glim | 2111154 | Rocks | Outcrop | 400 | Rhy? | - | Blocky part (WR), 2 x 5 m, Carb dyke intruding and altering WR to Glim | 19-Aug-10 |
| 2010 | 87680 | 535051 | 6314467 | North Glim | 2111154 | Rocks | Boulder | 2000 | dol-Carb | - | sub-rnd bldr, just down from ridge | 19-Aug-10 |
| 2010 | 87681 | 535000 | 6314505 | North Glim | 2111154 | Rocks | Boulder | 1700 | dol-Carb | - | bldr 30 x 30 cm | 19-Aug-10 |
| 2010 | 87682 | 535000 | 6314513 | North Glim | 2111154 | Rocks | Outcrop | 375 | Glim | v.f.g., w-gy wthd, homo, dol-Carb vnlets | ~ 7 x 2.5 m, mostly moss-covered | 19-Aug-10 |
| 2010 | 87683 | 534965 | 6314558 | North Glim | 2111154 | Rocks | Outcrop | 600 | WR / dol-Carb dyke | f.g.-m.g., b-gy, p, gy-blk-br wthd, blocky, bio (layers), r patches (abnt), frac and distinct edges (abnt) / Glim around - og wthd, Carb vns (og-br wthd), mag (abnt), Rhy? (gy gdmass), same rock as 87679 | Carb dyke intruding and altering WR to Glim (bio abnt around vns), at 400 cps shows different wthg but same rock (blk-br, v. uneven) | 19-Aug-10 |
| 2010 | 87684 | 534822 | 6314554 | North Glim | 2087806 | Rocks | Outcrop | 175 | meta-Sed? | v.f.g. gr-gy, finely fol, bio (layers), sul (common), dol-Carb vns-layers, meta-Sed? | 315/72 (E-SE), sample 87685 is bldr sample (cc-Carb, 1500 cps) on top of ridge, and sample 87686 is soil on top of ridge, 1800 cps | 19-Aug-10 |
| 2010 | 87685 | 534796 | 6314577 | North Glim | 2087806 | Rocks | Boulder | 1500 | cc-Carb | - | ~1500 cps (sand only) | 19-Aug-10 |
| 2010 | 87686 | 534793 | 6314576 | North Glim | 2087806 | RA Reading | Soil | 1800 | - | - | v. dense clay, mag abnt soil | 19-Aug-10 |
| 2010 | 87687 | 535046 | 6314231 | North Glim | 2111154 | Rocks | Outcrop | 310 | Glim | v.f.g., blk wthd (pitted), homo, dol-Carb vns-vnlets | lrg OC, ~ 8 m x 4 m high, OC runs from 87687 to 275 bg | 19-Aug-10 |
| 2010 | 87688 | 535187 | 6314173 | North Glim | 2111154 | Rocks | Boulder | 1100 | dol-Carb / Glim | - | - | 19-Aug-10 |
| 2010 | 87732 | 541889 | 6311840 | MC Exposure | 2111149 | Rocks | Boulder | -1 | dol-Carb | - | - | 3-Aug-10 |
| 2010 | 87758 | 537801 | 6308318 | South of Camp | 2087749 | Rocks | Boulder | 3100 | dol-Carb | - | - | 4-Aug-10 |
| 2010 | 87860 | 545512 | 6308143 | Sareille | 2145687 | Rocks | Boulder | -1 | cc-Carb | - | - | 19-Jul-10 |
| 2010 | 87903 | 542458 | 6301744 | Extreme South | 2145596 | Rocks | Boulder | -1 | Non-Carb | - | - | 24-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|-----------|----------------|-----------------|-------------------|---------|------------------|---------|---------|--------------------|--|---|-----------|
| 2010 | 100 Bkgd | 537522 | 6311123 | Southeast | 1007659 | RA Reading | - | 100 | - | - | - | 12-Aug-10 |
| 2010 | 1000 Cps | 535632 | 6314060 | North Glim | 2087807 | RA Reading | - | 1000 | - | - | - | 3-Jul-10 |
| 2010 | 1000Cps | 537282 | 6310086 | Star Trench | 2087760 | RA Reading | - | 1000 | - | - | - | 7-Jul-10 |
| 2010 | 1000Cps | 539895 | 6313698 | North of Beckling | 2111152 | RA Reading | - | 1000 | - | - | - | 8-Jul-10 |
| 2010 | 1000Cps | 537033 | 6313015 | Miranna | 2087800 | RA Reading | - | 1000 | - | - | - | 16-Jul-10 |
| 2010 | 1000Cps | 539233 | 6310266 | Southeast | 2087776 | RA Reading | - | 1000 | - | - | - | 17-Aug-10 |
| 2010 | 1001Cps | 536370 | 6317865 | North Block | 2118790 | Rocks | Boulder | 1000 | cc mafic (igneous) | - | Few high spots around, only ~ 30 x 40 cm exposed, not huge, rnd to sub-ang | 16-Aug-10 |
| 2010 | 100Bg | 540406 | 6307601 | South Mag Blowout | 2087740 | RA Reading | - | 100 | - | - | - | 18-Aug-10 |
| 2010 | 100Bg | 537776 | 6310251 | Star Trench | 1007657 | RA Reading | - | 100 | - | - | - | 15-Aug-10 |
| 2010 | 1011 Cps | 537150 | 6312946 | Miranna | 2087800 | RA Reading | - | 1011 | - | - | - | 15-Jul-10 |
| 2010 | 105 Bkgd | 537441 | 6310706 | Southeast | 2087774 | RA Reading | - | 105 | - | - | - | 12-Aug-10 |
| 2010 | 105Bg | 540396 | 6307566 | South Mag Blowout | 2087740 | RA Reading | - | 105 | - | - | - | 18-Aug-10 |
| 2010 | 105Bkgd | 539203 | 6309972 | Southeast | 2087764 | RA Reading | - | 105 | - | - | - | 17-Aug-10 |
| 2010 | 105Cps Bg | 537824 | 6310663 | Southeast | 1007657 | RA Reading | - | 105 | - | - | - | 22-Aug-10 |
| 2010 | 108Bg | 537970 | 6310252 | Star Trench | 1007657 | RA Reading | - | 108 | - | - | - | 15-Aug-10 |
| 2010 | 108Cps Bg | 537818 | 6310589 | Southeast | 1007657 | RA Reading | - | 108 | - | - | - | 22-Aug-10 |
| 2010 | 25 | 537301 | 6310067 | Star Trench | 2087760 | RA Reading | - | 1090 | - | - | - | 7-Jul-10 |
| 2010 | 10Ka | 535611 | 6314003 | North Glim | 2087807 | RA Reading | - | 4500 | - | v.f.g., mostly lt bl-gy, slightly mottled text | > 70 x 70 cm | 5-Aug-10 |
| 2010 | 10Ka | 535743 | 6313883 | North Glim | 2087807 | Rocks | Boulder | 4700 | Carb / Glim | Soil (bio, c.g.) with a mtx of dirt with mg (50%), mica (dk, flakes), Carb clsts (sub-rnd), Glim-Carb clsts (v.f.g., non RA), till whose mtx is disaggregated Glim (strongly RA, c.g.), biotized WR, Carb vns (xcut, Carb (S1) | Soil with RA Carb (S4) bldrs and c.g. Carb, long cliff face OC, OC 400 cps max, trends 250 deg, ~ 80 m long, discontinuously, RA near OC centre, stage 1 Carb more abnt, biotized, W to E | 5-Aug-10 |
| 2010 | 10Ka 4 | 535912 | 6314349 | North Glim | 2087807 | Rocks | Boulder | 1000 | Carb | c.g., w, sul (minor), r min, mafic dykes / vns (< 1 mm), fl (small pockets), etc to mg/Fe Carb (v.f.g., ol) | - | 5-Aug-10 |
| 2010 | 1100 Cps | 535617 | 6313929 | North Glim | 2087807 | RA Reading | - | 1100 | - | - | - | 3-Jul-10 |
| 2010 | 1100Cps | 537404 | 6310158 | Star Trench | 2087774 | RA Reading | - | 1100 | - | - | - | 7-Jul-10 |
| 2010 | 1100Cps | 537258 | 6313011 | Miranna | 2087800 | RA Reading | - | 1100 | - | - | - | 16-Jul-10 |
| 2010 | 1103Cps | 538421 | 6310842 | Southeast | 1007658 | RA Reading | - | 1100 | - | - | - | 15-Aug-10 |
| 2010 | 120 Cps | 538293 | 6309878 | Star Trench | 2087762 | RA Reading | - | 120 | - | - | - | 4-Jul-10 |
| 2010 | 1200 Cps | 538121 | 6310998 | Southeast | 1007658 | RA Reading | - | 1200 | - | - | - | 4-Jul-10 |
| 2010 | 1200 Cps | 537338 | 6312886 | Miranna | 2087792 | RA Reading | - | 1200 | - | - | - | 15-Jul-10 |
| 2010 | 125 bkgd | 537485 | 6310212 | Star Trench | 2087774 | RA Reading | - | 125 | - | - | - | - |
| 2010 | 125Bkgd | 538754 | 6310003 | Southeast | 2087763 | RA Reading | - | 125 | - | - | Soil line (anomaly) | 17-Aug-10 |
| 2010 | 130 Bkgd | 537591 | 6311230 | Southeast | 1007659 | RA Reading | - | 130 | - | - | - | 12-Aug-10 |
| 2010 | 1300Cps | 537229 | 6310034 | Star Trench | 2087760 | RA Reading | - | 1300 | - | - | - | 5-Jul-10 |
| 2010 | 1300Cps | 540932 | 6312579 | MC Exposure | 2142206 | RA Reading | - | 1300 | - | - | - | 10-Jul-10 |
| 2010 | 1301Cps | 537264 | 6310033 | Star Trench | 2087760 | RA Reading | - | 1300 | - | - | - | 5-Jul-10 |
| 2010 | 1302Cps | 538466 | 6310554 | Southeast | 1007658 | RA Reading | - | 1300 | - | - | - | 15-Aug-10 |
| 2010 | 1308Bkgd | 538778 | 6310004 | Southeast | 2087763 | RA Reading | - | 130 | - | - | - | 17-Aug-10 |
| 2010 | 1358Bkgd | 538981 | 6309840 | Star Trench | 2087763 | RA Reading | - | 135 | - | - | - | 17-Aug-10 |
| 2010 | 1400 Cps | 537375 | 6312874 | Miranna | 2087792 | RA Reading | - | 1400 | - | - | - | 15-Jul-10 |
| 2010 | 1400Cps | 537747 | 6317520 | North Block | 2142245 | Rocks | Boulder | 1400 | dol-Carb | - | - | 13-Aug-10 |
| 2010 | 1400Cps | 538053 | 6310983 | Southeast | 1007658 | RA Reading | - | 1400 | - | - | - | 25-Jul-10 |
| 2010 | 1400Cps | 537800 | 6311450 | Miranna | 1007659 | RA Reading | - | 1400 | - | - | - | 12-Jul-10 |
| 2010 | 1500Cps | 537232 | 6310063 | Star Trench | 2087760 | RA Reading | - | 1500 | - | - | - | 5-Jul-10 |
| 2010 | 1500Cps | 539975 | 6313437 | North of Beckling | 2111152 | RA Reading | - | 1500 | - | - | - | 8-Jul-10 |
| 2010 | 1500Cps | 537137 | 6310287 | Star Trench | 2087774 | RA Reading | - | 1500 | - | - | - | 8-Jul-10 |
| 2010 | 1501Cps | 537268 | 6310089 | Star Trench | 2087760 | RA Reading | - | 1500 | - | - | - | 7-Jul-10 |
| 2010 | 1508Bkgd | 538798 | 6310070 | Southeast | 2087763 | RA Reading | - | 150 | - | - | - | 17-Aug-10 |
| 2010 | 1518Bkgd | 538867 | 6309912 | Southeast | 2087763 | RA Reading | - | 151 | - | - | - | 17-Aug-10 |
| 2010 | 1522 Cps | 537407 | 6312989 | Miranna | 2087800 | RA Reading | - | 1522 | - | - | - | 15-Jul-10 |
| 2010 | 1600Cps? | 537700 | 6311000 | Southeast | 1007657 | RA Reading | - | 1600 | - | - | - | 12-Jul-10 |
| 2010 | 160Bg | 540443 | 6307624 | South Mag Blowout | 2087740 | RA Reading | - | 160 | - | - | - | 18-Aug-10 |
| 2010 | 1700Cps | 537413 | 6312983 | Miranna | 2087800 | RA Reading | - | 1700 | - | - | - | 16-Jul-10 |
| 2010 | 174Bg | 538170 | 6310568 | Southeast | 1007658 | RA Reading | - | 174 | - | - | - | 15-Aug-10 |
| 2010 | 175 Bkgd | 538545 | 6310040 | Star Trench | 2087763 | RA Reading | - | 175 | - | - | - | 17-Aug-10 |
| 2010 | 180 Cps | 537953 | 6310680 | Southeast | 1007657 | RA Reading | - | 180 | - | - | - | 5-Jul-10 |
| 2010 | 1900Cps | 539764 | 6313232 | North of Beckling | 2111152 | RA Reading | - | 1900 | - | - | - | 8-Jul-10 |
| 2010 | 200 Bkgd | 538095 | 6309906 | Star Trench | 2087760 | RA Reading | - | 200 | - | - | - | 17-Aug-10 |
| 2010 | 2000Cps | 537227 | 6310055 | Star Trench | 2087760 | Rocks | Subcrop | 2000 | dol-Carb | - | Coordinates not recorded in Patrik's book, based on the date | 5-Jul-10 |
| 2010 | 2000Cps | 537810 | 6311250 | Southeast | 1007659 | RA Reading | - | 2000 | - | - | - | 12-Jul-10 |
| 2010 | 200Bg | 535010 | 6314176 | North Glim | 2111154 | RA Reading | - | 200 | - | - | - | 19-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|---------------|----------------|-----------------|-------------------|---------|------------------|---------|---------|-----------------|---------------|---|-----------|
| 2010 | 200Cps | 539270 | 6308961 | East of Star | 2087752 | RA Reading | - | 200 | - | - | - | 19-Aug-10 |
| 2010 | 200Cps | 537497 | 6310267 | Star Trench | 2087774 | RA Reading | - | 200 | - | - | - | 22-Aug-10 |
| 2010 | 210 Bkgd | 538695 | 6310194 | Southeast | 2087775 | RA Reading | - | 210 | - | - | - | 17-Aug-10 |
| 2010 | 2200Cps | 536297 | 6311942 | Ashram | 2087783 | RA Reading | - | 2200 | - | - | - | 23-Jul-10 |
| 2010 | 225Cps | 538280 | 6310517 | Southeast | 1007658 | RA Reading | - | 225 | - | - | - | 15-Aug-10 |
| 2010 | 2300 Cps | 537066 | 6312917 | Miranna | 2087800 | RA Reading | - | 2300 | - | - | - | 15-Jul-10 |
| 2010 | 2300Cps | 537279 | 6310100 | Star Trench | 2087760 | RA Reading | - | 2300 | - | - | - | 5-Jul-10 |
| 2010 | 240 Cps | 538447 | 6310284 | Southeast | 1007658 | RA Reading | - | 240 | - | - | - | 4-Jul-10 |
| 2010 | 2500 Cps | 537397 | 6313008 | Miranna | 2087800 | RA Reading | - | 2500 | - | - | - | 2-Aug-10 |
| 2010 | 2508kgd | 539250 | 6309961 | Southeast | 2087764 | RA Reading | - | 250 | - | - | - | 17-Aug-10 |
| 2010 | 250cps | 538191 | 6310574 | Southeast | 1007658 | RA Reading | - | 250 | - | - | - | 15-Aug-10 |
| 2010 | 250Cps Bg | 534922 | 6314408 | North Glim | 2087806 | RA Reading | - | 250 | - | - | - | 19-Aug-10 |
| 2010 | 2558kgd | 539387 | 6310173 | Southeast | 2087776 | RA Reading | - | 255 | - | - | - | 17-Aug-10 |
| 2010 | 260Cps | 537709 | 6310791 | Southeast | 1007657 | RA Reading | - | 260 | - | - | - | 22-Aug-10 |
| 2010 | 260Cps | 538398 | 6310527 | Southeast | 1007658 | RA Reading | - | 260 | - | - | - | 15-Aug-10 |
| 2010 | 266Cps | 534856 | 6314635 | North Glim | 2087806 | RA Reading | - | 266 | - | - | - | 19-Aug-10 |
| 2010 | 275 Cps | 535902 | 6311022 | East Valcourt | 2087771 | RA Reading | - | 275 | - | - | - | 3-Jul-10 |
| 2010 | 275Cps | 537662 | 6310731 | Southeast | 1007657 | RA Reading | - | 275 | - | - | - | 22-Aug-10 |
| 2010 | 275Cps Bg | 535093 | 6314188 | North Glim | 2111154 | RA Reading | - | 275 | - | - | - | 19-Aug-10 |
| 2010 | 2800 Cps | 537328 | 6312955 | Miranna | 2087800 | RA Reading | - | 2800 | - | - | - | 15-Jul-10 |
| 2010 | 2800 Cps O/c? | 535804 | 6312157 | Northwest | 1007661 | RA Reading | - | 2800 | - | - | - | 30-Jun-10 |
| 2010 | 280Bg | 535032 | 6314008 | North Glim | 2111154 | RA Reading | - | 280 | - | - | - | 19-Aug-10 |
| 2010 | 280Cps | 537379 | 6310103 | Star Trench | 2087760 | RA Reading | - | 280 | - | - | - | 5-Jul-10 |
| 2010 | 280Cps | 539268 | 6308946 | East of Star | 2087752 | RA Reading | - | 280 | - | - | - | 19-Aug-10 |
| 2010 | 280CpsAD | 536997 | 6313412 | Miranna | 2087800 | RA Reading | - | 280 | - | - | - | 13-Jul-10 |
| 2010 | 28162-28167 | 537392 | 6313029 | Miranna | 2087800 | Rocks | Boulder | 290 | Gr | - | - | 2-Aug-10 |
| 2010 | 290Cps Bg | 534998 | 6314305 | North Glim | 2111154 | RA Reading | - | 290 | - | - | - | 19-Aug-10 |
| 2010 | 300 Cps | 538498 | 6310724 | Southeast | 1007658 | RA Reading | - | 300 | - | - | - | 4-Jul-10 |
| 2010 | 87404 | 539968 | 6313461 | North of Beckling | 2111152 | Rocks | Outcrop | 3000 | Phyl / Scht | Scht - gr | Same glittery rock (as RR10-23), OC 1 x 3 m, top of hill (50 m S), sample 87404 | 8-Jul-10 |
| 2010 | 300Bg | 535163 | 6313995 | North Glim | 2111154 | RA Reading | - | 300 | - | - | - | 19-Aug-10 |
| 2010 | 300cps | 537073 | 6310148 | Star Trench | 2087774 | RA Reading | - | 300 | - | - | - | 11-Jul-10 |
| 2010 | 300Cps | 537545 | 6310547 | Southeast | 1007657 | RA Reading | - | 300 | - | - | - | 22-Aug-10 |
| 2010 | 303Bg | 538522 | 6310842 | Southeast | 1007658 | RA Reading | - | 303 | - | - | - | 15-Aug-10 |
| 2010 | 325Bg | 535042 | 6314506 | North Glim | 2111154 | RA Reading | - | 325 | - | - | - | 19-Aug-10 |
| 2010 | 325Bkgd | 539421 | 6310187 | Southeast | 2087776 | RA Reading | - | 325 | - | - | - | 17-Aug-10 |
| 2010 | 3400Jul1 | 536220 | 6312118 | Ashram | 2087790 | RA Reading | - | 3400 | - | - | - | 1-Jul-10 |
| 2010 | 350 Cps | 538361 | 6310916 | Southeast | 1007658 | RA Reading | - | 350 | - | - | - | 4-Jul-10 |
| 2010 | 350Cps | 537365 | 6310203 | Star Trench | 2087774 | Rocks | Outcrop | 2700 | Glim | brc, cc (vns) | Nearby hotspot in hole - 2700 cps, K = 2.7%, U = 107.2 ppm, Th = 351.3 ppm | 7-Jul-10 |
| 2010 | 367Cps Bg | 541249 | 6311965 | MC Exposure | 2111148 | RA Reading | - | 367 | - | - | - | 22-Aug-10 |
| 2010 | 375Cps | 537803 | 6310799 | Southeast | 1007657 | RA Reading | - | 375 | - | - | - | 22-Aug-10 |
| 2010 | 3800Cps | 541415 | 6311612 | MC Exposure | 2111148 | Rocks | Boulder | 3800 | cc Scht? | - | - | 3-Aug-10 |
| 2010 | 397Cps | 537537 | 6310534 | Southeast | 1007657 | RA Reading | - | 397 | - | - | - | 22-Aug-10 |
| 2010 | 400 Cps | 535884 | 6311040 | East Valcourt | 2087771 | RA Reading | - | 400 | - | - | - | 3-Jul-10 |
| 2010 | 4000Cps? | 537750 | 6311350 | Miranna | 1007659 | RA Reading | - | 4000 | - | - | - | 12-Jul-10 |
| 2010 | 400Bg | 535256 | 6314028 | North Glim | 2111154 | RA Reading | - | 400 | - | - | - | 19-Aug-10 |
| 2010 | 400Bg | 538425 | 6310534 | Southeast | 1007658 | RA Reading | - | 400 | - | - | - | 15-Aug-10 |
| 2010 | 400Cps | 537365 | 6310159 | Star Trench | 2087774 | RA Reading | - | 400 | - | - | - | 5-Jul-10 |
| 2010 | 400Cps | 534941 | 6314575 | North Glim | 2087806 | RA Reading | - | 400 | - | - | - | 19-Aug-10 |
| 2010 | 401Cps | 537436 | 6310145 | Star Trench | 2087774 | RA Reading | - | 400 | - | - | - | 15-Aug-10 |
| 2010 | 402Cps | 537601 | 6310304 | Star Trench | 1007657 | Rocks | Boulder | 400 | dol-Carb | - | - | 22-Aug-10 |
| 2010 | 405Cps | 537732 | 6310784 | Southeast | 1007657 | RA Reading | - | 400 | - | - | - | 22-Aug-10 |
| 2010 | 420Cps | 537341 | 6310078 | Star Trench | 2087760 | RA Reading | - | 420 | - | - | - | 7-Jul-10 |
| 2010 | 44CPS1400 | 532494 | 6315376 | West Mag High | 2142221 | Rocks | Boulder | 1400 | Non-Carb | - | - | 10-Aug-10 |
| 2010 | 450 Cps | 537482 | 6310211 | Star Trench | 2087774 | Rocks | - | 450 | Glim | dol-Carb vns | mag high, avg 125 cps all around, 175 surf, 440 after 20 cm Ovb was moved | 15-Aug-10 |
| 2010 | 450-650Cps | 537209 | 6310131 | Star Trench | 2087774 | RA Reading | - | 650 | - | - | - | 5-Jul-10 |
| 2010 | 450Cps | 539420 | 6310244 | Southeast | 2087776 | RA Reading | - | 450 | - | - | - | 17-Aug-10 |
| 2010 | 450Cps Bg | 535142 | 6314160 | North Glim | 2111154 | RA Reading | - | 450 | - | - | - | 19-Aug-10 |
| 2010 | 455Cps | 537821 | 6310594 | Southeast | 1007657 | RA Reading | - | 455 | - | - | - | 22-Aug-10 |
| 2010 | 480Cps | 538303 | 6310516 | Southeast | 1007658 | RA Reading | - | 480 | - | - | - | 15-Aug-10 |
| 2010 | 490Cps Sch | 541381 | 6311649 | MC Exposure | 2111148 | RA Reading | - | 490 | Scht | - | - | 4-Aug-10 |
| 2010 | 500 Cps | 535877 | 6311047 | East Valcourt | 2087771 | RA Reading | - | 500 | - | - | - | 3-Jul-10 |
| 2010 | 500 Cps | 539191 | 6309966 | Southeast | 2087764 | RA Reading | - | 500 | - | - | - | 17-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|---------|---------|-----------------|---|---|-----------|
| 2010 | 500Cps | 537027 | 6310148 | Star Trench | 2087774 | RA Reading | - | 500 | - | - | - | 5-Jul-10 |
| 2010 | 500Cps | 536747 | 6310184 | East Valcourt | 2087773 | RA Reading | - | 500 | - | - | - | 11-Jul-10 |
| 2010 | 500Cps | 540546 | 6307713 | South Mag Blowout | 2087740 | RA Reading | - | 500 | - | - | - | 18-Aug-10 |
| 2010 | 501Cps | 537289 | 6310078 | Star Trench | 2087760 | RA Reading | - | 501 | - | - | - | 7-Jul-10 |
| 2010 | 508Cps | 538069 | 6310263 | Southeast | 1007658 | RA Reading | - | 508 | - | - | - | 15-Aug-10 |
| 2010 | 50Bg | 540756 | 6307870 | South Mag Blowout | 2087741 | RA Reading | - | 50 | - | - | - | 18-Aug-10 |
| 2010 | 50Cps Bg | 537779 | 6310468 | Southeast | 1007657 | RA Reading | - | 50 | - | - | - | 22-Aug-10 |
| 2010 | 518Cps bg | 535190 | 6314171 | North Glim | 2111154 | RA Reading | - | 518 | - | - | - | 19-Aug-10 |
| 2010 | 550Cps | 538616 | 6310829 | Southeast | 2087775 | RA Reading | - | 550 | - | - | - | 15-Aug-10 |
| 2010 | 560Cps | 537301 | 6310081 | Star Trench | 2087760 | RA Reading | - | 560 | - | - | - | 7-Jul-10 |
| 2010 | 600 Bkgd | 538777 | 6310184 | Southeast | 2087775 | RA Reading | - | 600 | - | - | - | 17-Aug-10 |
| 2010 | 600Cps | 540187 | 6314164 | North of Beckling | 2142216 | RA Reading | - | 600 | - | - | - | 8-Jul-10 |
| 2010 | 600CPSJUL31 | 541016 | 6313559 | North of Beckling | 2142210 | Rocks | Boulder | 600 | Non-Carb | - | - | 31-Jul-10 |
| 2010 | 700Cps | 538074 | 6309772 | Star Trench | 2087762 | RA Reading | - | 700 | - | - | - | 17-Aug-10 |
| 2010 | 702Cps | 538439 | 6310537 | Southeast | 1007658 | RA Reading | - | 702 | - | - | - | 15-Aug-10 |
| 2010 | 725 Cps Bouldr | 541275 | 6311799 | MC Exposure | 2111148 | RA Reading | - | 725 | - | - | - | 4-Aug-10 |
| 2010 | 75 Bkgd | 537454 | 6310836 | Southeast | 2087774 | RA Reading | - | 75 | - | - | - | 12-Aug-10 |
| 2010 | 75 Cps | 538103 | 6310568 | Southeast | 1007658 | RA Reading | - | 75 | - | - | - | 5-Jul-10 |
| 2010 | 750Cps | 536006 | 6309890 | West Valcourt | 2087758 | RA Reading | - | 750 | - | - | - | 5-Jul-10 |
| 2010 | 75Bg | 537664 | 6310249 | Star Trench | 1007657 | RA Reading | - | 75 | - | - | - | 15-Aug-10 |
| 2010 | 770-900Cps | 537237 | 6310046 | Star Trench | 2087760 | RA Reading | - | 900 | - | - | - | 5-Jul-10 |
| 2010 | 770Cps Bg | 541402 | 6311737 | MC Exposure | 2111148 | RA Reading | - | 770 | - | - | - | 22-Aug-10 |
| 2010 | 800Cps | 537256 | 6310015 | Star Trench | 2087760 | RA Reading | - | 800 | - | - | - | 5-Jul-10 |
| 2010 | 80Bg | 540384 | 6307600 | South Mag Blowout | 2087740 | RA Reading | - | 80 | - | - | - | 18-Aug-10 |
| 2010 | 840Cps | 537260 | 6310087 | Star Trench | 2087760 | RA Reading | - | 840 | - | - | - | 7-Jul-10 |
| 2010 | 850 Cps | 537588 | 6310274 | Star Trench | 1007657 | RA Reading | - | 850 | - | - | - | 15-Aug-10 |
| 2010 | 85Bg | 540724 | 6307697 | South Mag Blowout | 2087741 | RA Reading | - | 85 | - | - | - | 18-Aug-10 |
| 2010 | 87615+87616 | 541224 | 6311575 | MC Exposure | 2111148 | Rocks | Boulder | 1700 | dol-Carb | Mg-Fe-Carb | Sample 87615 | 4-Aug-10 |
| 2010 | 87615+87616 | 541224 | 6311575 | MC Exposure | 2111148 | Rocks | Boulder | 2600 | cc-Carb | - | Sample 87615, Carb predeformation | 4-Aug-10 |
| 2010 | 87652-3 | 535747 | 6313867 | North Glim | 2087807 | Rocks | Boulder | 3600 | Carb (S2, S3) | - | - | 5-Aug-10 |
| 2010 | 89751+87661 | 537546 | 6310512 | Southeast | 1007657 | Rocks | Boulder | 3000 | dol-Carb | f.g.-m.g., gr-y, br-r wthd, ukn min (blk, small mafic xtls throughout) | Multiple small bldrs - chips, < 3000 cps, U = 50 ppm, Th = 500 ppm, area is ~ 15 x 20 m with elevated cps readings throughout, 240 BG cps | 12-Aug-10 |
| 2010 | 90 Cps | 538240 | 6309828 | Star Trench | 2087762 | RA Reading | - | 90 | - | - | - | 4-Jul-10 |
| 2010 | 900Cps | 539914 | 6312829 | Beckling | 2111150 | RA Reading | - | 900 | - | - | - | 8-Jul-10 |
| 2010 | 900Cps | 540892 | 6312255 | MC Exposure | 2142206 | RA Reading | - | 900 | - | - | - | 10-Jul-10 |
| 2010 | 90Bg | 540311 | 6307550 | South Mag Blowout | 2087740 | RA Reading | - | 90 | - | - | - | 18-Aug-10 |
| 2010 | 90Bkgd | 537516 | 6310097 | Star Trench | 2087760 | RA Reading | - | 90 | - | - | - | 15-Aug-10 |
| 2010 | 90Cps | 538118 | 6310040 | Star Trench | 2087762 | RA Reading | - | 90 | - | - | - | 17-Aug-10 |
| 2010 | 95Bg | 540468 | 6307724 | South Mag Blowout | 2087740 | RA Reading | - | 95 | - | - | - | 18-Aug-10 |
| 2010 | AD10-003 | 545171 | 6309878 | Hodge-Podge | 2204160 | Rocks | - | 60 | Scht | v.f.g., gr-gy (5GY-6/1), rusty gr-gy wthd (greasy sheen), br along fol, fol, msc-bio, trem? (blk, lrg RA xtls) | Sample 83309 is typical of bldrs within area, same Scht as sample 83309 | 30-Jun-10 |
| 2010 | AD10-001 | 544835 | 6309625 | Hodge-Podge | 2204159 | Rocks | - | 65 | Scht | f.g., gr-gy-b,br-gy wthd (greasy), finely fol, msc-bio-chl?-Amt?-qtz, plag? (c.g., lt, soft), vugs (few, filled with lrg xtls), v. hard | Same Scht as sample 83307 | 30-Jun-10 |
| 2010 | AD10-002 | 544920 | 6309716 | Hodge-Podge | 2204159 | Rocks | - | 75 | Scht | f.g., gr-gy-b,br-gy wthd (greasy), finely fol, msc-bio-chl?-Amt?-qtz, plag? (c.g., lt, soft), vugs (few, filled with lrg xtls), v. hard | Same Scht as sample 83307 | 30-Jun-10 |
| 2010 | AD10-004 | 545360 | 6309944 | Hodge-Podge | 2204160 | Rocks | - | 70 | Scht | v.f.g., gr-gy (5GY-6/1), rusty gr-gy wthd (greasy sheen), br along fol, fol, msc-bio, trem? (blk, lrg RA xtls) | Sample 83309 is typical of bldrs within area, same Scht as sample 83309 - | 30-Jun-10 |
| 2010 | AD10-005 | 545482 | 6309925 | Hodge-Podge | 2204160 | Rocks | - | 55 | Scht | v.f.g., gr-gy (5GY-6/1), rusty gr-gy wthd (greasy sheen), br along fol, fol, msc-bio, trem? (blk, lrg RA xtls) | Sample 83309 is typical of bldrs within area, same Scht as sample 83309 | 30-Jun-10 |
| 2010 | AD10-006 | 545682 | 6309698 | Hodge-Podge | 2204161 | Rocks | - | 40 | Scht | b-gy-gr (N6, gr-gy), blk-gy to dusty br between fol wthd, fol, msc-bio-chl?-amph?, trem? (minor, xtls?, lrg, blk, fibrous, RA), msc (shiny, throughout), dull overall | Same Scht as sample 83310 | 30-Jun-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|--------------|----------------|-----------------|------------------|---------|------------------|----------|---------|-----------------|--|---|-----------|
| 2010 | AD10-007 | 545549 | 6309475 | Hodge-Podge | 2204160 | Rocks | - | 75 | Scht | b-gy-gr (N6, gr-gy), blk-gy to dusty br between fol withd, fol, msc-bio-chl?-amph?, trem? (minor, xtls?, lrg, blk, fibrous, RA), msc (shiny, throughout), dull overall | Same Scht as sample 83310 | 30-Jun-10 |
| 2010 | AD10-013 | 537126 | 6313353 | Miranna | 2087800 | Rocks | - | 400 | - | f.g., med dk gy (N4), boudinage text?, blk min (+ve withg), dol, micaceous, qtz vns (~ 1 cm) | HS, Glim intruding? | 13-Jul-10 |
| 2010 | AD10-017 | 537526 | 6313045 | Miranna | 2087801 | Rocks | Boulder | 600 | Glim | f.g., med gy, cc (vns, throughout, ~ 1 - 5 mm), sul (c., sparse, but lrg, py) | HS | 13-Jul-10 |
| 2010 | AD10-021 | 537489 | 6312992 | Miranna | 2087800 | Rocks | Boulder | 1100 | Carb | m.g.-c.g., y-gy (5Y 7/2), rusty br-blk withd (pitted-vuggy), brc, fl (blebs), py (diss), minor flow bndg, , Glim withrs +ve(?) | Glim intruding Carb 3, bldr chip, AD10-021 | 13-Jul-10 |
| 2010 | AD10-028 | 537378 | 6312966 | Miranna | 2087800 | Rocks | - | 1600 | - | c.g., dk-med gy, dk rusty br-gy withd, no pitted withg, sul (minor), xtl | Same Glim within, at top of ridge for OCAD-109, 3 mid-size bldrs with high cps, HS, couldn't get big enough chunk to sample | 14-Jul-10 |
| 2010 | Ak10-001 | 537316 | 6312240 | Miranna | 2087792 | Rocks | Boulder | 900 | Carb | f.g., lt cr, homo, mass, mafic poor, py | 2 bldrs, no sample | 3-Aug-10 |
| 2010 | Ak10-002 | 537322 | 6311993 | Miranna | 2087792 | Rocks | Boulder | 1800 | Carb | tan withd | lrg, flat Carb bldr, 15 cm below the ground, too lrg and flat to get a sample | 3-Aug-10 |
| 2010 | APR10-001 | 536135 | 6312171 | Ashram | 2087790 | Rocks | Outcrop | 2600 | dol-Carb | Carb vnlets (S3 with S4) | 305/16 (RHR flowbndg), beside sample 43016 | 25-Jun-10 |
| 2010 | APR10-002 | 536180 | 6312126 | Ashram | 2087790 | Rocks | Outcrop | -1 | dol-Carb | Glim vnlets xcut Carb 3 | Slumped | 25-Jun-10 |
| 2010 | APR10-003 | 536193 | 6312028 | Ashram | 2087790 | Rocks | Outcrop | 1400 | Carb (S4) | gr-b | Obvious OC under frost heave, no msmt taken, falls along strike of last 2 OC | 25-Jun-10 |
| 2010 | APR10-004 | 536281 | 6311971 | Ashram | 2087783 | Rocks | Outcrop | 1600 | Carb (S4) | gr-gy, fl (xtln), Carb (S4, more diss) | Abnt frost heave, OC from 43002 | 25-Jun-10 |
| 2010 | APR10-005 | 536307 | 6311979 | Ashram | 2087790 | Rocks | Outcrop | 2000 | Carb (S4) | - | Abnt frost heave, followed ridgeline (1) from APR10-004 | 25-Jun-10 |
| 2010 | APR10-006 | 536323 | 6311991 | Ashram | 2087790 | Rocks | - | 880 | - | Glim vns (vertical fabric) | 2nd ridge, horizontal flow bndg 280 / 09 | 25-Jun-10 |
| 2010 | APR10-007 | 536366 | 6311999 | Ashram | 2087790 | Rocks | Outcrop | 1300 | Carb (S4) | - | Still followed 2nd ridge (20 - 25 m), merging into 3rd ridge, mod frost heave, slightly slumped, OC from 70018, 315/51 (flowbndg) | 25-Jun-10 |
| 2010 | APR10-008 | 536378 | 6312014 | Ashram | 2087790 | Rocks | Outcrop | 1800 | Carb (S4) | Glim xtlid with fm of Carb, rather than xcut vn, flow bndg of Glim + Carb | 3rd ridge, biggest OC in area, 324/26, 001/43 (bedding); 265/85, 230/75 (cleavage); 185/54 (ft); 230/75 (cleavage); 185/54 (ft); 001/43 (bedding) [other msmts in the field book] | 25-Jun-10 |
| 2010 | APR10-009 | 536427 | 6312026 | Ashram | 2087790 | Rocks | Outcrop | 800 | Carb (S3) | m.g., med gy, xtl, fl, py, Glim vns (minor) | Beside OC with 38713, 270/65 (flowbndg), sample 83301 | 25-Jun-10 |
| 2010 | APR10-010 | 536294 | 6311915 | Ashram | 2087783 | Rocks | Boulder | 1000 | Carb (S3) | py (c.g., abnt), Glim (v.f.g.) | - | 25-Jun-10 |
| 2010 | Apr10-011 | 536120 | 6312053 | Ashram | 2087790 | Rocks | Outcrop | 2600 | Carb (S4) | f.g., lt ol gy (EY 6/1), fl (dk p, 3 mm wide max, streaks and blebs common), rusty br-og, blk, cr, withd (with abnt frost heave) | 3 OC along parallel ridge (APR10-011,012,013), ridge 110.5 m long, abnt bldrs around area with similar cps readings, abnt frost heave, trend 320 deg, sample 83313 | 1-Jul-10 |
| 2010 | Apr10-012 | 536099 | 6312081 | Ashram | 2087790 | Rocks | Outcrop | 1800 | Carb | - | v. close to APR10-011, 3 OC along parallel ridge (APR10-011,012,013), ridge 110.5 m long, abnt bldrs around area with similar cps readings, trend 320 deg, same as APR10-011 | 1-Jul-10 |
| 2010 | Apr10-013 | 536060 | 6312120 | Ashram | 2087790 | Rocks | Outcrop? | 1500 | Carb (S3) | c.g., y-gy (5Y 7/12), rusty br-dk br-blk withd (frost heave, moss covered), mass, fl (blebs and vnlets, dk p-p, 3 mm max), xtl text | 3 OC along parallel ridge (APR10-011,012,013), ridge 110.5 m long, abnt bldrs nearby with similar cps readings, trend 320 deg, revisited in 2011 by AD (definitely not OC, A and B-zone bldrs stacked together, slumped, frost heave, HS taken), sample 83314 | 1-Jul-10 |
| 2010 | Apr10-046 | 535937 | 6311060 | East Valcourt | 2087782 | Rocks | Boulder | -1 | meta-Sed | - | bldr of meta-Sed | 3-Jul-10 |
| 2010 | Apr10-047 | 536038 | 6311096 | East Valcourt | 2087783 | Rocks | Outcrop | -1 | dol-Carb | f.g., med b-gy, dol, fl (blebs), cc (vnlets, 0.4 cm wide), amph (along cc vns), HCl rxn | 8 long x 7 m wide, sample 83329 | 3-Jul-10 |
| 2010 | Apr10-049 | 535619 | 6314065 | North Glim | 2087807 | Rocks | Boulder | 500 | Glim? | f.g., dk, amph? (long, needle-like min), abnt vns | lrg bldr off Glim ridge | 3-Jul-10 |
| 2010 | Apr10-056 | 538152 | 6309579 | Star Trench | 2087762 | Rocks | Boulder | 85 | fspathoid | fspathoid, pitted withg | 2 lrg bldrs | 4-Jul-10 |
| 2010 | Apr10-057 | 538153 | 6309618 | Star Trench | 2087762 | Rocks | Boulder | 100 | meta-Sed | f.g., mod fol, Carb vns | - | 4-Jul-10 |
| 2010 | Apr10-058 | 538183 | 6309756 | Star Trench | 2087762 | Rocks | Boulder | 110 | meta-Sed | f.g., pitted withg, mod fol, bio, calcareous | - | 4-Jul-10 |
| 2010 | Apr10-059 | 538253 | 6309844 | Star Trench | 2087762 | Rocks | Boulder | 300 | meta-Sed | f.g., intruded by Carb vns | 5 x 2 m tall, 300 cps on Carb vns, 200 cps on non-Carb | 4-Jul-10 |
| 2010 | Apr10-078 | 537948 | 6310661 | Southeast | 1007657 | Rocks | Boulder | 190 | meta-Sed | f.g., pitted withg, mass, bio, qtz | - | 5-Jul-10 |
| 2010 | Bedrock | 536416 | 6312746 | Northwest | 2087790 | Rocks | Outcrop | -1 | - | - | - | 19-Jul-10 |
| 2010 | Bkgd 110 Cps | 537276 | 6312517 | Miranna | 2087792 | RA Reading | - | 110 | - | - | - | 3-Aug-10 |
| 2010 | Bkgd 115 Cps | 537657 | 6311774 | Miranna | 1007659 | RA Reading | - | 115 | - | - | - | 3-Aug-10 |
| 2010 | Bkgd 130 Cps | 537229 | 6312762 | Miranna | 2087792 | RA Reading | - | 130 | - | - | - | 3-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-------------------------|---|---|-----------|
| 2010 | Bkgd 138 Cps | 538354 | 6312183 | Miranna | 2087794 | RA Reading | - | 138 | - | - | - | 3-Aug-10 |
| 2010 | Bkgd 140 Cps | 537859 | 6311829 | Miranna | 1007659 | RA Reading | - | 140 | - | - | - | 3-Aug-10 |
| 2010 | Bkgd 350 Cps | 538046 | 6311948 | Miranna | 1007660 | RA Reading | - | 350 | - | - | - | 3-Aug-10 |
| 2010 | Bkgd 400 Cps | 538108 | 6311998 | Miranna | 2087794 | RA Reading | - | 400 | - | - | - | 3-Aug-10 |
| 2010 | Bldr Shiny | 537457 | 6316835 | North Block | 2142244 | Rocks | Boulder | -1 | - | - | - | 13-Aug-10 |
| 2010 | Boul 1000Cps | 537422 | 6311917 | Miranna | 2087785 | RA Reading | - | 1000 | - | - | - | 3-Aug-10 |
| 2010 | Boulder Field | 537772 | 6311249 | Southeast | 1007659 | Rocks | Boulder | -1 | - | - | - | 12-Jul-10 |
| 2010 | Boulderfield | 538067 | 6310264 | Southeast | 1007658 | Rocks | Boulder | -1 | - | - | - | 15-Aug-10 |
| 2010 | Contact | 540409 | 6307642 | South Mag Blowout | 2087740 | Rocks | Outcrop | -1 | - | - | ctc sample | 18-Aug-10 |
| 2010 | Cps1000 | 537180 | 6313236 | Miranna | 2087800 | RA Reading | - | 1000 | - | - | - | 13-Jul-10 |
| 2010 | Cps1001 | 537471 | 6313027 | Miranna | 2087800 | Rocks | Boulder | 1000 | - | - | bldr chip, in swamp, AD10-022 | 13-Jul-10 |
| 2010 | Cps1002 | 537507 | 6313071 | Miranna | 2087801 | Rocks | Boulder | 1000 | - | - | bldr field, AD10-024 | 14-Jul-10 |
| 2010 | Cps1040 | 537508 | 6313003 | Miranna | 2087801 | Rocks | Boulder | 1040 | Carb (S3) | - | bldr field, AD10-023 | 14-Jul-10 |
| 2010 | Cps1200 | 537169 | 6312819 | Miranna | 2087792 | Rocks | Boulder | 1200 | Carb (S3) | - | AD10-027 | 14-Jul-10 |
| 2010 | Cps1202 | 536188 | 6312987 | Northwest | 2087798 | RA Reading | - | 1200 | - | - | - | 19-Jul-10 |
| 2010 | Cps1300 | 537500 | 6313031 | Miranna | 2087800 | RA Reading | - | 1300 | - | - | - | 13-Jul-10 |
| 2010 | cps1400 | 536517 | 6312645 | Northwest | 2087791 | RA Reading | - | 1400 | - | - | - | 19-Jul-10 |
| 2010 | Cps1700 | 537336 | 6312962 | Miranna | 2087800 | RA Reading | Ground | 1700 | - | - | AD10-020 | 13-Jul-10 |
| 2010 | Cps1800 | 537314 | 6312824 | Miranna | 2087792 | RA Reading | - | 1800 | Carb (S3) | - | On surf, AD10-025 | 14-Jul-10 |
| 2010 | Cps1801 | 537389 | 6312861 | Miranna | 2087792 | Rocks | Boulder | 1800 | - | - | - | 14-Jul-10 |
| 2010 | Cps2000 | 537156 | 6312839 | Miranna | 2087792 | RA Reading | - | 2000 | - | - | - | 14-Jul-10 |
| 2010 | Cps240 | 537137 | 6313296 | Miranna | 2087800 | RA Reading | - | 240 | - | - | - | 13-Jul-10 |
| 2010 | Cps241 | 537348 | 6313271 | Miranna | 2087800 | Rocks | Boulder | 240 | - | - | AD10-014 | 13-Jul-10 |
| 2010 | Cps280 | 537375 | 6312962 | Miranna | 2087800 | Rocks | Outcrop | 280 | - | - | On OC ridge | 14-Jul-10 |
| 2010 | Cps330 | 537367 | 6312963 | Miranna | 2087800 | Rocks | Outcrop | 330 | - | - | On OC ridge | 14-Jul-10 |
| 2010 | Cps350 | 537489 | 6313058 | Miranna | 2087800 | Rocks | Boulder | 350 | - | - | AD10-018 | 13-Jul-10 |
| 2010 | Cps400 | 537379 | 6312960 | Miranna | 2087800 | RA Reading | - | 400 | - | - | - | 14-Jul-10 |
| 2010 | Cps500 | 537498 | 6313130 | Miranna | 2087800 | RA Reading | - | 500 | - | - | - | 13-Jul-10 |
| 2010 | Cps501 | 537485 | 6313056 | Miranna | 2087800 | Rocks | Boulder | 500 | - | - | AD10-023 | 13-Jul-10 |
| 2010 | Cps600 | 537418 | 6313220 | Miranna | 2087800 | Rocks | Boulder | 600 | - | - | - | 13-Jul-10 |
| 2010 | Cps601 | 537368 | 6312963 | Miranna | 2087800 | Rocks | Outcrop | 600 | - | - | On ridge | 14-Jul-10 |
| 2010 | Cps900 | 537253 | 6312851 | Miranna | 2087792 | Rocks | Boulder | 900 | Carb (S3) | - | AD20-026 | 14-Jul-10 |
| 2010 | Cps902 | 537390 | 6312955 | Miranna | 2087800 | RA Reading | - | 900 | Scht | - | - | 14-Jul-10 |
| 2010 | Crossing | 541292 | 6311671 | MC Exposure | 2111148 | Rocks | - | -1 | Scht | - | - | 22-Aug-10 |
| 2010 | | 535683 | 6313880 | North Glim | 2087807 | Rocks | Outcrop | -1 | - | - | Glim Lake OC, OC total 200 m, sample 83303 | 28-Jun-10 |
| 2010 | Glim Oc | 535750 | 6313875 | North Glim | 2087807 | Rocks | Outcrop | -1 | - | - | - | 3-Jul-10 |
| 2010 | Glimmerite OC | 535683 | 6313889 | North Glim | 2087807 | Rocks | Outcrop | -1 | meta-Volc / Carb | f.g., b-gy, mod fol, py (abnt), riebeckite (m.g., common, RA), sandwiched sections, Glim xcut Carb 4 vns (brc) and intrudes meta-Volc (qtz) | 140/70 (RHR, bndg), 90 deg steep | 1-Jul-10 |
| 2010 | Glim-Out | 535750 | 6313850 | North Glim | 2087807 | Rocks | Outcrop | -1 | Scht | - | - | 5-Aug-10 |
| 2010 | Hose | 536085 | 6312938 | Northwest | 2087798 | Culture | Hose | -1 | Glim | - | - | 19-Jul-10 |
| 2010 | Hs-AP-001 | 538109 | 6309945 | Star Trench | 2087762 | Rocks | Boulder | 125 | Scht | f.g., lt gy-b, lt og-br withd, fol, greasy, mica (abnt) | Huge bldr, approx 2 m high x 5 m across, abnt frost heave | 17-Aug-10 |
| 2010 | Hs-AP-002 | 538138 | 6310055 | Star Trench | 2087762 | Rocks | Subcrop | 300 | Glim | og-br withd, dol-Carb vnlets (abnt), thicker and partially shiny because of Glim | Subcrop, partially dug, csze ukn, 300 cps avg BG | 17-Aug-10 |
| 2010 | hs-AP-007 | 539087 | 6309831 | Southeast | 2087764 | Rocks | Boulder | 230 | mica Scht | f.g., dk b-gy | bldr is ~ 1 m x 1 m | 17-Aug-10 |
| 2010 | Maghi | 538450 | 6310620 | Southeast | 1007658 | Rocks | - | -1 | cc mica Scht/ Carb Scht | - | - | 15-Aug-10 |
| 2010 | Mc Helipad | 541462 | 6311570 | MC Exposure | 2111148 | Culture | HeliDrop | -1 | - | - | - | 22-Aug-10 |
| 2010 | Mcoc1 | 541711 | 6311707 | MC Exposure | 2111149 | Rocks | Outcrop | -1 | meta-Sed | fol | 200-400 cps, found by soil crew, extent of OC ukn | 3-Aug-10 |
| 2010 | Mcoc10 | 537513 | 6308231 | South of Camp | 2118780 | Rocks | Outcrop | -1 | - | - | OC not mapped well, lrg, found on soil line, low cps | 4-Aug-10 |
| 2010 | Mcoc11 | 536618 | 6307602 | South of Camp | 2118779 | Rocks | Outcrop | 75 | metabasalt | m.g., gr-gy, dk-gy withd, prtc, mass, fsp (50%), chl (minor, retro, 20%), amph (30%), epd? | Dimensions not well constrained, at least 200 m long, ~ 75 m high x 20 m lrg, found by soil crew, 50 - 75 cps | 5-Aug-10 |
| 2010 | Mcoc12 | 536445 | 6307538 | South of Camp | 2118778 | Rocks | Outcrop | 75 | metabasalt | f.g., gr-gy, dk-gy withd, mass, fsp (< 25%), amphibole (> 50%), chl (20 - 30%), epd? | Dimensions not well constrained, found by soil crew, ~ MCO11 but other side of lake | 5-Aug-10 |
| 2010 | Mcoc13 | 536252 | 6306981 | South of Camp | 0 | Rocks | Outcrop | 70 | metabasalt | f.g., med gy-gr, gy-br withd, mass, amph (> 70%), fsp (< 20%, v.f.g.), chl (< 20%), py (< 1%) | Dimensions not well constrained, is approximate, found by soil crew, tracked | 5-Aug-10 |
| 2010 | Mcoc14 | 536309 | 6306833 | South of Camp | 0 | Rocks | Outcrop | -1 | metabasalt | f.g., med gy-gr, gy-br, mass, amph (> 70%), fsp (< 20%, vf.g.), chl (< 20%), py (< 1%) | Dimensions not well constrained, is approximate, found by soil crew | 5-Aug-10 |
| 2010 | Mcoc15BIGCLIFF | 536318 | 6306792 | South of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 5-Aug-10 |
| 2010 | Mcoc16 | 536684 | 6306475 | South of Camp | 2118770 | Rocks | Outcrop | -1 | metabasalt | fol (minor), not mass, dol (some) | Similar to Mcoc13, dimensions not well constrained, is approximate, found by soil crew | 8-Aug-10 |
| 2010 | Mcoc18 | 537390 | 6306947 | South of Camp | 2118771 | Rocks | Outcrop | -1 | dol-Carb | mg - cg, gr-gy, gr-gy-br withd, soft, chl (abnt, porho), cc, dol?, mass-minor fol | Dimensions not well constrained, is approximate, huge, found by soil crew | 5-Aug-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|---------|---------|-----------------|--|--|-----------|
| 2010 | Mcoc19 | 538073 | 6307023 | South of Camp | 2118773 | Rocks | Outcrop | -1 | metabasalt | f.g.-m.g., dkr gr. fsp? (v.f.g. if present), amph (45 - 70%), chl-msc?-epd? | Dimensions not well constrained, is approximate, found by soil crew | 8-Aug-10 |
| 2010 | Mcoc2 | 541401 | 6311623 | MC Exposure | 2111148 | Rocks | Outcrop | 2700 | carb? | - | - | 3-Aug-10 |
| 2010 | Mcoc20 | 538016 | 6307181 | South of Camp | 2118772 | Rocks | Outcrop | -1 | dol-Carb | essentially all chl (fol) ± other micas, cc (in variable amounts), v. soft and friable | Dimensions not well constrained, is approximate, found by soil crew | 8-Aug-10 |
| 2010 | Mcoc21 | 538631 | 6307607 | South Mag Blowout | 2118783 | Rocks | Outcrop | 2300 | - | - | Small exposure, dimensions not well known, found by soil crew removing moss | 8-Aug-10 |
| 2010 | Mcoc22SAMPLE | 538806 | 6307729 | South Mag Blowout | 2118783 | Rocks | Outcrop | 1400 | - | - | - | 8-Aug-10 |
| 2010 | Mcoc23 | 538852 | 6307742 | South Mag Blowout | 2118783 | Rocks | Outcrop | -1 | metabasalt | v.f.g., lt gr, wk-mod fol, chl (> 30%), amph + fsp (< 70%) | Similar to 13, ridge, dimensions not well constrained, is approximate, found by soil crew, | 8-Aug-10 |
| 2010 | Mcoc24 | 538986 | 6307827 | South Mag Blowout | 2118783 | Rocks | Outcrop | -1 | metabasalt | f.g.-v.f.g., dkr gr, mass-wk fol, eqgr, chl (< 15%), msc-epd?, amph + fsp (70%), bio (15%), harder | Dimensions not well constrained, is approximate, found by soil crew, not big | 8-Aug-10 |
| 2010 | Mcoc25 | 530876 | 6314510 | Northwest of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 10-Aug-10 |
| 2010 | Mcoc26 | 530896 | 6314755 | Northwest of Camp | 2142217 | Rocks | Outcrop | -1 | chl Scht | f.g.-v.f.g., med-dk green, w specs, fol, chl (30-40%), fol bnds (bio 20%, cc 20%, chl), fsp (diss) | - | 10-Aug-10 |
| 2010 | Mcoc27 | 530889 | 6314726 | Northwest of Camp | 2142217 | Rocks | Outcrop | -1 | - | - | - | 10-Aug-10 |
| 2010 | 93 | 530563 | 6314229 | Northwest of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 0-Jan-00 |
| 2010 | Mcoc29 | 530307 | 6314085 | Northwest of Camp | 2142199 | Rocks | Outcrop | -1 | dol-Carb | - | - | 11-Aug-10 |
| 2010 | Mcoc3 | 541277 | 6311622 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | - | - | OC much bigger than mapped, found by soil crew | 3-Aug-10 |
| 2010 | mcoc30?CPS1400 | 529869 | 6313899 | Northwest of Camp | 0 | RA Reading | Outcrop | 1400 | - | - | - | 11-Aug-10 |
| 2010 | Mcoc32 | 530192 | 6314841 | Northwest of Camp | 2142200 | Rocks | Outcrop | -1 | - | - | - | 11-Aug-10 |
| 2010 | Mcoc33 | 530291 | 6314879 | Northwest of Camp | 2142200 | Rocks | Outcrop | -1 | igneous | amph (abnt) | - | 11-Aug-10 |
| 2010 | Mcoc4 | 541294 | 6311475 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | - | - | OC much bigger than mapped, found by soil crew | 3-Aug-10 |
| 2010 | 89747 | 536894 | 6317595 | North Block | 2118793 | Rocks | Outcrop | -1 | - | - | - | 15-Aug-10 |
| 2010 | Mcoc5 | 538480 | 6308709 | South Mag Blowout | 2087750 | Rocks | Outcrop | -1 | Non-Carb | - | - | 4-Aug-10 |
| 2010 | Mcoc6 | 538309 | 6308599 | South Mag Blowout | 2087750 | Rocks | Outcrop | -1 | - | - | - | 4-Aug-10 |
| 2010 | Mcoc7 | 537787 | 6308331 | South of Camp | 2087749 | Rocks | Outcrop | 3100 | meta-Sed? | 87650 - gr-y with r patches, see sample book, 87663 - med-dk gy rusty br | OC found along soil line, RA varied from 1000 - 3100 cps on top with 300-600 cps on side, OC is lgr then plotted, two distinct lithos both with mag | 4-Aug-10 |
| 2010 | Mcoc8 | 537731 | 6308272 | South of Camp | 2118781 | Rocks | Outcrop | -1 | Non-Carb | Chl (evident fol) | OC bigger than plotted, 800 cps max, found along soil line | 4-Aug-10 |
| 2010 | Mcoc9 | 537561 | 6308268 | South of Camp | 2118781 | Rocks | Outcrop | -1 | Non-Carb | - | OC not mapped well or tracked, is lrg, found along soil line, low cps | 4-Aug-10 |
| 2010 | Mcocb | 537371 | 6306998 | South of Camp | 2118771 | Rocks | Outcrop | -1 | Non-Carb | gr, fsp (10 - 20%), amph (75%), chl (minor), py (5%, diss) | Dimensions not well constrained but is huge, is approximate, found by soil crew, sample 87623 taken here, sample 87624 taken 2 - 3 m away (direction not given) | 8-Aug-10 |
| 2010 | Mjoc01 | 537069 | 6318270 | North Block | 2145700 | Rocks | Outcrop | -1 | brc | amph-bio, brc | Big ridge, not tracked (coordinates not in field book) | 16-Aug-10 |
| 2010 | Mjoc02 | 536956 | 6317739 | North Block | 2145700 | Rocks | Outcrop | -1 | Amt? | brc?, bio (clsts, < 20%), dol mtz (no HCl rxn, soft), amph (common, phenos) | Bigger than tracked, quite high, v. similar to Mjoc03 but less bio clsts, lots of amph phenos, rock shows lineation of clsts and amph, coordinates not in field book | 16-Aug-10 |
| 2010 | Mjoc03 | 537000 | 6318164 | North Block | 2145700 | Rocks | Outcrop | -1 | Amt? | med-dk gy, med br withd, brc?, bio (clsts, 0.5 - 1 cm, 60%, pheno?), dol (mtz, no HCl rxn, soft), amph (blk to b, acidular, 0.2 - 1.5 cm, common, phenos), amph cuts bio clsts | Too big to track, on slope, ~ 50 x 50 m, coordinates not in field book | 16-Aug-10 |
| 2010 | Mjoc05 | 537086 | 6318339 | North Block | 2145700 | Rocks | Outcrop | -1 | Amt? | c.g., lt gy, lt gy-br withd, cc (patchy), amph (abnt, acidic, < 1 cm blades), og min?, dull rusty patches | Coordinates not in field book | 16-Aug-10 |
| 2010 | no WPT! | 535658 | 6314581 | North Glim | 2087807 | Rocks | Boulder | 2700 | cc Amt? | - | - | - |
| 2010 | no WPT! | 535584 | 6314552 | North Glim | 2087807 | Rocks | Subcrop | -1 | - | - | - | 11-Aug-10 |
| 2010 | no WPT! | 537083 | 6318193 | North Block | 2145700 | Rocks | Outcrop | -1 | - | - | - | 5-Aug-10 |
| 2010 | Oc | 535944 | 6312866 | Northwest | 1007661 | Rocks | Outcrop | -1 | Carb (S3) | - | - | 11-Aug-10 |
| 2010 | Oc 10Ka 3 | 535957 | 6314320 | North Glim | 2087807 | Rocks | Outcrop | 350 | Glim / Carb | Carb - f.g., v. xtnln, mafics (rare) / Glim (80%) - v.f.g., frac, Carb vns and dykes (20%) | Defined by an elongation of Glim frag, OC on mini cliff face, 80 m long at 320 deg, points in centre no width | 5-Aug-10 |
| 2010 | Oc 10Ka 5 | 535724 | 6314527 | North Glim | 2087807 | Rocks | Boulder | 180 | Glim | f.g., ltly sheared, bio + cc (fine augen, 90%), lclly intruded along fol by Carb (f.g., 10%) | Strain localization or 2 generations of carb, 307/70 (NE), OC trends 205 deg, 10 m long, point in centre, no width | 5-Aug-10 |
| 2010 | Oc | 541294 | 6311892 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | mica Scht | amph? (boudinage), other lithos as well | Frost heave | 22-Aug-10 |
| 2010 | Oc | 541258 | 6312016 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | dol-Carb | - | - | 22-Aug-10 |
| 2010 | Oc01 | 544184 | 6309636 | Hodge-Podge | 2145693 | Rocks | Outcrop | -1 | Mbl / meta-Sed? | - | Located walking a soil line, outline very rough | 18-Jul-10 |
| 2010 | Oc02 | 544155 | 6309682 | Hodge-Podge | 2145693 | Rocks | Outcrop | -1 | Mbl / meta-Sed? | Mbl - c.g., fol, patchy, dirty, mafics (minor), str HCl rxn | Collected on soil line, outline rough | 18-Jul-10 |
| 2010 | Oc1 | 537359 | 6312963 | Miranna | 2087800 | Rocks | Outcrop | -1 | - | - | - | 13-Jul-10 |
| 2010 | Oc2 | 537363 | 6312950 | Miranna | 2087800 | Rocks | Outcrop | -1 | - | - | - | 13-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|-------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------|--|--|-----------|
| 2010 | Oc3 | 537376 | 6312951 | Miranna | 2087800 | Rocks | Outcrop | -1 | Non-Carb | - | - | 13-Jul-10 |
| 2010 | Oc4 | 537374 | 6312974 | Miranna | 2087800 | Rocks | Outcrop | -1 | Scht | - | - | 13-Jul-10 |
| 2010 | Oc400CPS | 542000 | 6301396 | Extreme South | 2145595 | Rocks | Outcrop? | 400 | - | - | - | 24-Jul-10 |
| 2010 | 83395 | 540229 | 6307622 | South Mag Blowout | 2087740 | Rocks | Outcrop | 100 | Scht | dk gr gy, well fol, cc (itsl, vlets, throughout), sul (trace, throughout), ukn min (met b, within Glim). Glim vlets intruded throughout, same as 83394, but more fol and small vugs throughout | 10 x 15 m, high density rock, sample 83395 | 18-Aug-10 |
| 2010 | OCAD10-109 | 537360 | 6312962 | Miranna | 2087800 | Rocks | Outcrop | -1 | dol-Carb | f.g., med-dk gy (N4), rusty br and blk withd (pitted, blk portions generally with +vely), cc (small vnlets, ~ 1 mm), sul (diss), Glim (stringers), Glim intruding Carb | 7.5 m x 2 m high (ridge face), when walking from OC AD10-109 N-NE, ground is "hot" from 400-4000 cps, abnt frost heave, sample 83366 (all Glim Carb on OC) | 13-Jul-10 |
| 2010 | ocak10-003 | 538632 | 6312345 | Miranna | 2087795 | Rocks | Outcrop | 200 | Scht | f.g., qtz-fsp, bio (f.g., 65%, mod fol, doesn't break along fol), py (trace, f.g.), Carb vnlets (thin, folded), augen and frac coatings | Bsmt rock, OC on vert face, exposed for ~ 5 m along break in slope, area of OC not outlined well, 300/90 (fol) | 3-Aug-10 |
| 2010 | Ocak10-004 | 538735 | 6312345 | Miranna | 2087795 | Rocks | Outcrop | -1 | Glim | f.g., Glim (50%) intruded by numerous Syn-Carb vnlets (50%) | Dimensions of OC not well defined, OC on beginning of very steep downhill | 3-Aug-10 |
| 2010 | Ocak10-005 | 539165 | 6312425 | Beckling | 2087796 | Rocks | Outcrop | -1 | bio Scht | rusty, Carb vnlets, schs (well fol) | OC frost heaved, no struc msmt possible, bsmt rock, one Carb vnlet seen had alt Scht ~ 1 cm around it, could be that Carb was in valley and bsmt rock with Carb vns lay on ridges | 3-Aug-10 |
| 2010 | Oc-AP-004 | 538437 | 6309982 | Star Trench | 2087762 | Rocks | Outcrop | 400 | Scht / Carb | Scht - gy-blk withd (pitted), str fol, blk min (small, needle, amph?), micaceous / Carb - og-br withd | 3 x 8 m wide, overall rock 240 cps, < 400 cps at intruded Carb (~ 15 cm wide), 306/73 (E, RHR, fol) | 17-Aug-10 |
| 2010 | OCApr10-038 | 535804 | 6311005 | East Valcourt | 2087771 | Rocks | Outcrop | 170 | meta-Sed? | fol, chl (patches-pbl, 0.5 mm), qtz?, fsp?, bio, cc (10 - 30%), meta-Sed? (meta-Volc? more likely) | Poor field notes, likely similar to Apr10-044, outline OC wpts OCApr038-OcApr043, 116/84 (fol), vesicular text comes from gas bubbles altering the meta-Sed from intruding Carb vns, vesicular text could be from rnd soft min withd out, no HCl rxn | 3-Jul-10 |
| 2010 | Ocapr10-039 | 535799 | 6311027 | East Valcourt | 2087771 | Rocks | Outcrop | -1 | - | - | Outline OC wpts OCApr038-OcApr043 | 3-Jul-10 |
| 2010 | Ocapr10-040 | 535807 | 6311044 | East Valcourt | 2087771 | Rocks | Outcrop | -1 | - | - | Outline OC wpts OCApr038-OcApr043 | 3-Jul-10 |
| 2010 | Ocapr10-041 | 535806 | 6311071 | East Valcourt | 2087782 | Rocks | Outcrop | -1 | - | - | Outline OC wpts OCApr038-OcApr043 | 3-Jul-10 |
| 2010 | Ocapr10-042 | 535814 | 6311047 | East Valcourt | 2087782 | Rocks | Outcrop | -1 | - | - | Outline OC wpts OCApr038-OcApr043 | 3-Jul-10 |
| 2010 | Ocapr10-043 | 535828 | 6311025 | East Valcourt | 2087771 | Rocks | Outcrop | -1 | - | - | Outline OC wpts OCApr038-OcApr043 | 3-Jul-10 |
| 2010 | Ocapr10-044 | 535885 | 6311083 | East Valcourt | 2087782 | Rocks | Outcrop | 500 | meta-Volc | cc, mafic | 500 cps spot, 400 cps 1.5 m2, 275 cps Carb vns | 3-Jul-10 |
| 2010 | Ocapr10-045 | 535884 | 6311045 | East Valcourt | 2087771 | Rocks | Outcrop | 160 | Carb | gy-b, fol, chl (0.5 mm patches-pbl), bio, cc (10 - 30%), harder (> qtz?, fsp?), meta-Sed? | Control point ~ 160 cps | 3-Jul-10 |
| 2010 | Ocapr10-048 | 536068 | 6311105 | East Valcourt | 2087783 | Rocks | Outcrop | 550 | dol-Carb | f.g., med b-gy, dol, fl (blebs), cc (vnlets, 0.4 cm wide), HCl rxn, same as 83329 minus amph | 5 m x 0.4 m wide | 3-Jul-10 |
| 2010 | Ocapr10-050 | 535677 | 6313874 | North Glim | 2087807 | Rocks | Outcrop | -1 | Glim | c.g., blk, mass, bio | Glim occurrence, HS of 83318 | 3-Jul-10 |
| 2010 | 83333 | 535695 | 6313885 | North Glim | 2087807 | Rocks | Outcrop | 800 | dol-Carb | c.g., pale w-tan, suc, mass, fl (blebs, 4 mm wide), Glim frags | cps ranges from 680-800, OC includes OCApr10-051-Ocapr10-053, sample 83333, see notes, too long for description here; dominantely Carb 1 with brc Glim and Carb 4 vns | 3-Jul-10 |
| 2010 | Ocapr10-051 | 535691 | 6313886 | North Glim | 2087807 | Rocks | Outcrop | 800 | dol-Carb | c.g., pale w-tan, suc, mass, fl (blebs, 4 mm wide), Glim frags | cps ranges from 680-800, OC includes OCApr10-051-Ocapr10-053, sample 83333, see notes, too long for description here; dominantely Carb 1 with brc Glim and Carb 4 vns | 3-Jul-10 |
| 2010 | Ocapr10-052 | 535702 | 6313891 | North Glim | 2087807 | Rocks | Outcrop | -1 | Carb / Glim | Carb 1 with Glim brc | cps ranges from 680-800, OC includes OCApr10-051-Ocapr10-053, sample 83333 | 3-Jul-10 |
| 2010 | Ocapr10-053 | 535723 | 6313888 | North Glim | 2087807 | Rocks | Outcrop | -1 | Carb | Carb 4 vn in Carb 1 | cps ranges from 680-800, OC includes OCApr10-051-Ocapr10-053, sample 83333 | 3-Jul-10 |
| 2010 | Ocapr10-054 | 538161 | 6309113 | South Mag Blowout | 2087750 | Rocks | Outcrop | 90 | g-Scht | - | Country rock | 4-Jul-10 |
| 2010 | Ocapr10-055 | 535525 | 6313975 | North Glim | 2087807 | Rocks | Outcrop | -1 | - | - | - | 3-Jul-10 |
| 2010 | ocapr10-079 | 538408 | 6310321 | Southeast | 1007658 | Rocks | Outcrop | 325 | meta-Sed / Carb | meta-Volc with Carb intruding-xcut, smaller vns locly, Glim pod locly | lrg OC extending eastward, 67 x 1.87 m tall, frost heave, boundaries defined by OCApr10-079 to 081, samples 83336, 83338, 83339 (dyke) | 5-Jul-10 |
| 2010 | Ocapr10-080 | 538394 | 6310304 | Southeast | 1007658 | Rocks | Outcrop | 325 | meta-Sed / Carb | meta-Volc with Carb intruding-xcut, smaller vns locly, Glim pod locly | lrg OC extending eastward, 67 x 1.87 m tall, frost heave, boundaries defined by OCApr10-079 to 081, samples 83336, 83338, 83339 (dyke) | 5-Jul-10 |
| 2010 | Ocapr10-081 | 538386 | 6310290 | Southeast | 1007658 | Rocks | Outcrop | 325 | meta-Sed / Carb | meta-Volc with Carb intruding-xcut, smaller vns locly, Glim pod locly | lrg OC extending eastward, 67 x 1.87 m tall, frost heave, boundaries defined by OCApr10-079 to 081, samples 83336, 83338, 83339 (dyke) | 5-Jul-10 |
| 2010 | Ocapr10-082 | 538390 | 6310284 | Southeast | 1007658 | Rocks | Outcrop | -1 | - | - | Small patch of OC top E of OCApr10-079-081, 1.5 m tall | 5-Jul-10 |
| 2010 | Ocapr10-083 | 538396 | 6310294 | Southeast | 1007658 | Rocks | Outcrop | -1 | - | - | Small patch of OC top E of OCApr10-079-081, 1.5 m tall | 5-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|--------------|----------------|-----------------|-------------------|---------|------------------|---------|---------|-----------------|---|--|-----------|
| 2010 | Oc-PS-10-001 | 535484 | 6309604 | West Valcourt | 2118787 | Rocks | Outcrop | -1 | Scht | f.g., gr-blk, str fol, bio, mica (abnt), different layer together with calcitic layer (1 cm thick) | OC station 9, OCRR10-11 | 5-Jul-10 |
| 2010 | Oc-PS-10-002 | 535676 | 6309841 | West Valcourt | 2087758 | Rocks | Outcrop | 400 | meta-Sed | f.g., dk gy, mass, og withd, no fol, calcitic (10-20%) | Carb elevated, 200 - 300 cps over 100 m area with soil coverage, OCRR10-12 | 5-Jul-10 |
| 2010 | Oc-PS-10-003 | 535845 | 6309923 | West Valcourt | 2087758 | Rocks | Outcrop | -1 | meta-Sed | gy, cc (10-20%, or 5-10%), not as og withg than 002, abnt fracs-groove crossing surf at random angles, cc (vns, minor) | Facing other direction than 002, OCRR10-13 | 5-Jul-10 |
| 2010 | Oc-PS-10-004 | 535894 | 6309845 | West Valcourt | 2087758 | Rocks | Outcrop | -1 | non-Carb | cc (vns, abnt, xcut), 2 lenses ~ 8 cm | OC like 003, 252 W | 5-Jul-10 |
| 2010 | Oc-PS-10-005 | 535988 | 6309856 | West Valcourt | 2087758 | Rocks | Outcrop | 400 | dol-Carb? | bright, gr min (vns, chl?, epd?), vns cutting all over | Huge lense of Carb (50 m), low cps, one point ~ 400 cps, HS PS005 Carb (vn, 308/65 (sample foll)), HS PS006 gr vns (303/60 - 70) | 5-Jul-10 |
| 2010 | Oc-PS-10-007 | 536007 | 6309895 | West Valcourt | 2087758 | Rocks | Subcrop | 900 | Glim / Carb? | lt gy (Carb?) | Hot spot | 5-Jul-10 |
| 2010 | Oc-PS-10-010 | 537239 | 6310085 | Star Trench | 2087760 | Rocks | Outcrop | -1 | dol-Carb | mass, framework of veins xcut entire OC (strongly RA, og withg), totally brc WR | At left and right site only og withd rocks, cps reading ~ 350 cps WR, 400 - 500 cps in vn, hotspot 4700 cps on top, 2 x 30 m OC just below Star Trench, mass, see Patrick's notes (PS-10-010, 011), OCRR10-016 | 5-Jul-10 |
| 2010 | Oc-PS-10-012 | 537243 | 6310074 | Star Trench | 2087760 | Rocks | Subcrop | 4900 | dol-Carb | og withd, mag (abnt) | - | 5-Jul-10 |
| 2010 | Oc-PS-10-014 | 537250 | 6310040 | Star Trench | 2087760 | Rocks | Subcrop | 4700 | Carb / Glim | c.gr. | Coordinates not recorded in Patrick's book | 5-Jul-10 |
| 2010 | Oc-PS-10-017 | 537262 | 6310098 | Star Trench | 2087760 | Rocks | Subcrop | 2000 | dol-Carb | dol-Carb + cc-Carb in OC | - | 5-Jul-10 |
| 2010 | Oc-PS-10-021 | 537381 | 6310143 | Star Trench | 2087774 | Rocks | Outcrop | 3400 | dol-Carb | br-og withd, blk min (small, throughout), in ctc with Glim | ~ 3400 cps in the hole, probably at bedrock, obviously from bedrock to surf a coarsening up with layer of < 30 cm bldrs at top - glacier?, aquifer running through, digged hole wet after | 5-Jul-10 |
| 2010 | Oc-PS-10-023 | 537405 | 6310164 | Star Trench | 2087774 | Rocks | Outcrop | -1 | Glim | cc (vns) | - | 7-Jul-10 |
| 2010 | OCRR10-11 | 535480 | 6309605 | West Valcourt | 2118787 | Rocks | Outcrop | -1 | meta-Sed | f.g., gr-blk, fol, cc (layers) | Small cliff ~ 1m tall along ridge, trending N-S, 310/71 E (fol), see Patrick's notes | 5-Jul-10 |
| 2010 | Oc-PS-10-002 | 535676 | 6309841 | West Valcourt | 2087758 | Rocks | Outcrop | 400 | meta-Sed | f.g., dk gy, withd br, mass, cc (10 - 20%) | 2x5 m, trending N-S, small OC approaching top of next hill to E, 200 - 300 cps over 100 m area (soil covered) (Oc-PS-10-002) | 5-Jul-10 |
| 2010 | OCRR10-13 | 535847 | 6309920 | West Valcourt | 2087758 | Rocks | Outcrop | -1 | meta-Sed | f.g., gy, mass, cc (5-10%), cc vns (minor, random orientation, mostly diss), fracs-groove (abnt, xcut surf at random angles), same as OCRR10-12 | Good exposure, semi-continuous OC on small ridge, 1.5 x 6 m trending N-S | 5-Jul-10 |
| 2010 | OCRR10-14 | 535880 | 6309860 | West Valcourt | 2087758 | Rocks | Outcrop | -1 | meta-Sed | f.g., gy, mass, cc (5-10%), fracs-groove (abnt, xcut surf at random angles), cc (minor, vns, random orientation, mostly diss) | Continuation of OCRR10-13 to S, 20 - 30 m x 5 m wide to S, cc vns mostly ~ 250 deg dipping ~ 70 degN or S (or both?), same rock as OCRR10-13 | 5-Jul-10 |
| 2010 | OCRR10-16 | 537243 | 6310082 | Star Trench | 2087760 | Rocks | Outcrop | -1 | - | mass, framework of vns (xcut all OC) | 2 x 30 m OC just below Star Trench | 5-Jul-10 |
| 2010 | OCRR10-18 | 539875 | 6314150 | North of Beckling | 2142215 | Rocks | Outcrop | -1 | cc g-Scht? | msc (1-5%), gr mins (80-90%), qtz?-nph?, strongly fol-fis, cc (pods-blebs, occasional, 1 x 10 cm long) | OC NE facing along ridge (~ 50 m up), 2 - 5 x 50 m, exposed couple m is calving, 303/28 (NE, fol, may be off due to calving?), flat lying? | 8-Jul-10 |
| 2010 | OCRR10-20 | 539842 | 6313973 | North of Beckling | 2142215 | Rocks | Outcrop | -1 | cc g-Scht | f.g., strongly fol, gr mins, msc (< 40%), cc (blebs, some), Phyl or g-Scht? | Another NE facing ridge, only bldrs seen, subcrop just below, no msmt, similar to ECRR10-18, dipping to S, almost flat lying | 8-Jul-10 |
| 2010 | OCRR10-21 | 539850 | 6313803 | North of Beckling | 2111152 | Rocks | Outcrop | -1 | cc g-Scht | f.g., strongly fol, gr mins, msc (< 40%, some cc blebs) | OC in stream, strongly fol, 208/28 W (fol), same rock as OCRR10-20 | 8-Jul-10 |
| 2010 | OCRR10-24 | 539942 | 6313440 | North of Beckling | 2111152 | Rocks | Outcrop | -1 | Phyl / Scht | fol, fis | 2 m x 30 m OC trends NW along hill-top, ~ 50 m from small OC with 3000 cps, may not be in-situ? | 8-Jul-10 |
| 2010 | OCRR10-27 | 539920 | 6312675 | Beckling | 2111150 | Rocks | Outcrop | -1 | Mbl / meta-Sed? | f.g., blk-dk br, mass, homo, mafics (~ 90%), bio (30%?), qtz (~ 10%?), dol, Dac? or Mdst?, continuation of RR10-26 | - | 8-Jul-10 |
| 2010 | OCRR10-31 | 540351 | 6312579 | Beckling | 2111151 | Rocks | Outcrop | -1 | chl Scht | f.g to c.g., br-gy-pale gr, mass, amph-hbl (pheno, < 8 mm, 10%), fsp-neph (20%), gr min (soft, chl?, 70-80%), same gr rock as OCRR-30 / E end rock changes to g-Scht with bio (phenos-pbls) | 50 x 100 m+ bldr field, bldrs < 15 m tall, bldr trail between OCRR-30 and OCRR-31, continues S (likely more to E and W also), ground not as RA below (off trend?), 30 m to S actual OC, all of these haven't moved far | 10-Jul-10 |
| 2010 | OCRR10-33 | 540821 | 6312567 | MC Exposure | 2142206 | Rocks | Outcrop | 400 | Carb? | m.g., dk gy, mafics (90%), cc (10%), py (trace, euh), blk min (met) | Calved off subcrop nearby, sample 87413 | 10-Jul-10 |
| 2010 | OCRR10-34 | 540925 | 6312547 | MC Exposure | 2142206 | Rocks | Outcrop | 1900 | Gn? | Competent but layers-fabric visible, compositional bndg, qtz (layers, 30%), bio + amph? (layers, 70%) | Small OC, more bldrs of same type just downhill, 5 m to NW is 1900 cps subcrop similar to 87414 | 10-Jul-10 |
| 2010 | OCRR10-35 | 540944 | 6312423 | MC Exposure | 2142206 | Rocks | Outcrop | -1 | Gn? | competent but layers-fabric visible, compositional bndg, qtz (layers, 30%), bio + amph? (layers, 70%) | Small OC, 247/14 (NW, fol), ± same orientation as OCRR10-34, similar to OCRR10-34 | 10-Jul-10 |
| 2010 | OCRR10-38 | 540866 | 6312315 | MC Exposure | 2142206 | Rocks | Outcrop | -1 | g-Scht? | f.g., dk gr, vesicules (occasional, < 5%, < 8 mm across) | Couple OCs, continues to NW, 150/50 (W, fol) | 10-Jul-10 |
| 2010 | OCRR10-39 | 536116 | 6309926 | West Mag High | 2087759 | Rocks | Outcrop | -1 | K-spar Grtd? | f.g., gy, mass, sul (trace) | - | 11-Jul-10 |
| 2010 | 87421 | 536751 | 6310175 | East Valcourt | 2087773 | Rocks | Outcrop | 500 | - | dk gy, blk met bnds (glittery, > 3000 cps), no HCl rxn | Small OC (< 1 m high), continues as subcrop to NNW (small ridge), mass fl?, sample 87421 | 11-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|------------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|---|---|-----------|
| 2010 | OCRR10-50 | 536823 | 6312909 | Miranna | 2087791 | Rocks | Outcrop | -1 | dol-Carb | v.f.g.-f. gr., m.g. in places, lt to dk gy, gy and r-br wthd, mass, homo, ap? (< 50%), dol (40 - 80%?), sul (trace) | Likely OC, plateau drops 5 m at S side of ridge, 20 m long to S, poor exposure, only a few spots sticking out from vegetation, same rock as RR10-49 | 16-Jul-10 |
| 2010 | OCRR10-51 | 536811 | 6312858 | Miranna | 2087791 | Rocks | Outcrop | -1 | dol-Carb | v.f.g.-f. gr., m.g. in places, lt to dk gy, gy and r-br wthd, mass, homo, ap? (< 50%), dol (40 - 80%?), sul (trace), same dol-ap rich rock as RR10-49 | Probably OC, < 2 m high, 15 m long (to S) | 16-Jul-10 |
| 2010 | OCRR10-52 | 536750 | 6312802 | Northwest | 2087791 | Rocks | Outcrop | -1 | dol-Carb | v.f.g.-f. gr., m.g. in places, lt to dk gy, gy and r-br wthd, mass, homo, ap? (< 50%), dol (40 - 80%?), sul (trace), same dol-ap rich rock as RR10-49 | Small OC, 1 - 2 m high, relatively decent exposure | 16-Jul-10 |
| 2010 | OCRR10-53 | 536686 | 6312750 | Northwest | 2087791 | Rocks | Outcrop | -1 | dol-Carb | m.g., more homo (than RR10-49 to 52), mass, blocky, ap (abnt), dol (abnt), blk streaks | Small OC, < 2 m high, 5 - 10 m long N-S | 16-Jul-10 |
| 2010 | OCRR10-56 | 536741 | 6312716 | Northwest | 2087791 | Rocks | Outcrop | -1 | dol-Carb | f.g., ap-dol, ltr colour | OC along 3 m ridge running SW, continues?, poor exposure, rock hard to see | 16-Jul-10 |
| 2010 | OCRR10-57 | 536796 | 6312699 | Ashram | 2087791 | Rocks | Outcrop | -1 | dol-Carb | dol - leuco, clean, mass / bio-abnt rock - f.g., fol, pheno-pbl (locky), stockwork vnlets (or healed frac?), ctc?, bio (phenos-pbls near ctc, in melano rock) | Small OC along small ridge, poor exposure, sharp smooth sub-vert ctc between 2 lithos, melano to S, > 80% dip, subparallel plane extends outward, 087/65 - 70 S (fol? or jn?, took sample, ctc meanders, sample 87469 | 16-Jul-10 |
| 2010 | OCRR10-59 | 537155 | 6312813 | Miranna | 2087792 | Rocks | Outcrop | 700 | dol-Carb | m.g., hetero | 7 m x 1 m high, actual wpt is OCRR10-59 - there are two of these for completely different stations so this one is changed to 87471 (sample) | 16-Jul-10 |
| 2010 | OCRR10-61 | 537175 | 6310167 | Star Trench | 2087774 | Rocks | Outcrop | -1 | Carb (S3)? | f.g., dk gy, mass to wkly bnd (compositional), lt gy-tan zones-pods, sul (trace), dol? (no HCl rxn, cold), ap?, Carb 3 dol-ap? | 2 x 2 m, top piece loose block that has moved slightly, tree on top, subcrop likely continues N (2 m topo high at top of hill), 2 more OCs uphill within 15 m (OCRR10-61B and C), | 22-Jul-10 |
| 2010 | OCRR10-61B | 537163 | 6310179 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb? | f.g., gy-gr, mass, ap-dol-Carb | 1 - 2 m tall, < 3 m long, situated at topo steepening, continued subdrop? | 22-Jul-10 |
| 2010 | OCRR10-61C | 537165 | 6310159 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb? | f.g., gy-gr, mass, ap-dol-Carb | 1 - 2 m tall, < 3 m long, situated at topo steepening, continued subdrop? | 22-Jul-10 |
| 2010 | OCRR10-61d | 537168 | 6310199 | Star Trench | 2087774 | Rocks | Boulder | -1 | dol-Carb? | - | OC again at topo steepening (continuation of OCRR10-61a to S), sample 87473 | 22-Jul-10 |
| 2010 | OCRR10-62 | 537156 | 6310217 | Star Trench | 2087774 | Rocks | Outcrop | -1 | Scht | f.g. mtx, gr, fol (v. wk), dol (clsts, rnd) | ~ 280 / 35 N? (fol), unreliable, v. approximate, litho change at this station, brc?, OC still along the same ridge, continues N, sample 87474 | 22-Jul-10 |
| 2010 | OCRR10-63 | 537148 | 6310234 | Star Trench | 2087774 | Rocks | Outcrop | 250 | Glim? | f.g.-v.f.g., dk gy-blk, mass, sul (mod) | Small OC further uphill, 1 x 1 m. ~ 200 - 250 cps, wkly bnd? If so, OC face along plane parallel to 030 / 50 SE (bndg), sample 87475 | 22-Jul-10 |
| 2010 | OCRR10-65 | 537138 | 6310268 | Star Trench | 2087774 | Rocks | Outcrop | -1 | dol-Carb | lower part of OC - f.g., blk, mass, dol (blebs, 10 - 20%), py and other sul? (few %), met, glittery / higher up is similar rock, finer g., ltr gy, py, glittery, no blebs | Same hill, broadening out, not as steep, similar to previous stations, stepped OCs, more space in between, blocky, rocks may be slumped?, msmt on possible "bedding" plane 006/64 E (bedding) | 22-Jul-10 |
| 2010 | OCRR10-68A | 537023 | 6310630 | East Valcourt | 2087774 | Rocks | Outcrop | 4000 | dol-Carb | f.g., gy with gr-tan blebs throughout, mass, dol-ap, Carb (S3)? | Natural OC, common plane 337/25 (NE, frac planes?), blocky series of steps, common plane 337/25 (NE, frac planes?), lower half pieces are broken off-calving, 2000 - 4000 cps | 22-Jul-10 |
| 2010 | OCRR10-68B | 537033 | 6310625 | East Valcourt | 2087774 | Rocks | Outcrop | 4000 | dol-Carb | f.g., gy with gr-tan blebs throughout, mass, dol-ap, Carb (S3)?? | Previously exposed OC, blocky series of steps, common plane 337/25 (NE, frac planes?), lower half pieces are broken off-calving, 2000 - 4000 cps | 22-Jul-10 |
| 2010 | OCRR10-68C | 537046 | 6310631 | East Valcourt | 2087774 | Rocks | Outcrop | 4000 | dol-Carb | f.g., gy with gr-tan blebs throughout, mass, dol-ap, Carb (S3)? | Previously exposed OC, mini trench, 1 x 6 m long, blocky series of steps, common plane 337/25 (NE, frac planes?), lower half pieces are broken off-calving, 2000 - 4000 cps | 22-Jul-10 |
| 2010 | OCRR10-69 | 537031 | 6310664 | East Valcourt | 2087774 | Rocks | Outcrop | -1 | dol-Carb | sph? bio? (some, blk, met, not mag), same dol-ap Carb (as OCRR10-68) | Ocs all around, all < 1 m2, still hot on scint | 22-Jul-10 |
| 2010 | OCRR10-70 | 537049 | 6310693 | East Valcourt | 2087774 | Rocks | Outcrop | -1 | dol-Carb | Same rock as other OCs in area | 1 m tall "peninsula" of rock, near lake edge, 3 x 8 m to NE, looks like bidrs in place, but in-situ, top stays flat-level with ground to SW, just wthd around? | 22-Jul-10 |
| 2010 | OCRR10-71 | 537057 | 6310647 | East Valcourt | 2087774 | Rocks | Outcrop | -1 | dol-Carb | Same dol-ap Carb | Small OC | 22-Jul-10 |
| 2010 | OCRR10-72 | 537022 | 6310647 | East Valcourt | 2087774 | Rocks | Outcrop | -1 | dol-Carb | Same dol-ap carb | Small OC | 22-Jul-10 |
| 2010 | OCRR10-74 | 536988 | 6310694 | East Valcourt | 2087773 | Rocks | Outcrop | -1 | dol-Carb | f.g., gy, mass, ap-dol, calving (abnt) | OC along some ridge as for station sample 87604, continues still to N, steepest part at base of hill | 22-Jul-10 |
| 2010 | OCRR10-75 | 536985 | 6310719 | East Valcourt | 2087773 | Rocks | Outcrop | -1 | dol-Carb | Same ap-dol-Carb | Small OC along some ridge | 22-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|------------------|---------|------------------|---------|---------|-------------------|--|---|-----------|
| 2010 | OCRR10-76 | 536987 | 6310707 | East Valcourt | 2087773 | Rocks | Outcrop | -1 | dol-Carb | blocky, mass, vns xcut at random orientations | Good OC, 2 m tall, good exposure, no vegetation cover, 6 - 8 m long, clean vert face, facing E, 037/85 - 90 (NW or SE, bedding plane), repeated every 5 - 20 cm on S side of OC, just frac planes? | 22-Jul-10 |
| 2010 | OCRR10-77 | 536973 | 6310754 | East Valcourt | 2087773 | Rocks | Outcrop | -1 | dol-Carb | f.g., gr-gy, mass, ap-dol | End of ridge, all same rock | 17-Aug-10 |
| 2010 | OCRR10-78 | 537168 | 6310125 | Star Trench | 2087760 | Rocks | Outcrop | -1 | dol-Carb | f.g., dk gy, mass, bio? (softer dk patches), abdt ap-dol rich sections (lt gy-gr), pk sections | Small OC hidden in bushes, 1 x 2 m, looks similar to station where sample 87604 was taken | 17-Aug-10 |
| 2010 | OCSS10-031 | 538759 | 6309444 | Star Trench | 2087763 | Rocks | Outcrop | -1 | meta-Sed? | v.f.g., b-gy, pale og to rusty wthd, wthd pitting, felsic vnlets (few), sul (rare, < 1 mm), mag (aph, diss, common), Dac, v. soft, not carbanaceous, no HCl rxn | OC 1 x 2 m, alt rim near wthd surf (b, ~ 5 mm), 284/22 (bnd wthg), see pic 360 and 361, OC is slumped | 17-Aug-10 |
| 2010 | OCSS10-033 | 539326 | 6309278 | East of Star | 2087764 | Rocks | Outcrop | -1 | Scht | f.g.-m.g. (almost c.g.), med gy, dk gy-dk rusty br wthd, wk fol, bio (mafic), mag (some, diss), cc, felsic vn (~ 6 mm), lt pk min (k-spar?, throughout), cc-Carb vn with vnlets (br-r) | OC tracked with gps, ~ 20 m across x 5 m deep x 1.5 m high, goes into small ridge, slumped?, 346/34 (joint?) | 19-Aug-10 |
| 2010 | 67752 | 539322 | 6309271 | East of Star | 2087764 | Rocks | Outcrop | -1 | Carb | f.g.-m.g. (almost c.g.), med gy, dk gy-dk rusty br wthd, wk fol, bio (mafic), mag (some, diss), cc, felsic vn (~ 6 mm), lt pk min (k-spar?, throughout), cc-Carb vn with vnlets (br-r) | 346/34 (jn?) | 19-Aug-10 |
| 2010 | OCSS10-038 | 540291 | 6311714 | MC Exposure | 2111146 | Rocks | Outcrop | 170 | Scht | f.g., med b-gy (5B 5/1), rusty og-br-blk wthd, str fol, fis, cc (vns, lrg, 1.5 cm min scale), mica-abnt (msc, bio), cc, others too f.g. to identify, small frac throughout | 310/34 (RHR), dip NE, ~ 20 m wide x 5 m high max, 170 cps on OC, 170 cps on HS | 10-Jul-10 |
| 2010 | Old Trench | 537855 | 6310783 | Southeast | 1007657 | RA Reading | - | 8000 | - | - | - | 22-Aug-10 |
| 2010 | Outcrop | 536316 | 6312833 | Northwest | 2087790 | Rocks | Outcrop | -1 | Glim | - | Whole area is Glim with occasional Carb bldrs | 19-Jul-10 |
| 2010 | PS10-003 | 536092 | 6312770 | Northwest | 2087790 | Rocks | Outcrop | -1 | dol-Carb | C-Carb? - m.g., str pk / M-Carb? - mag / Carb (S4) - middle + top of OC, Carb (S4) + (S2) bldrs on top / Glim? | 3 samples | 19-Jul-10 |
| 2010 | PS10-005 | 536296 | 6312782 | Northwest | 2087790 | Rocks | Outcrop | -1 | cc-Carb / Glim | cc-Carb (10%) - f.g.-m.g., med gy to pale y, dol-cc, sul (minor), vns (2-3 cm) / Glim (90%) | cc-Carb 1000 cps, Glim 350 cps | 19-Jul-10 |
| 2010 | Ps-10-009 | 537213 | 6310126 | Star Trench | 2087760 | Rocks | Boulder | 100 | dol-Carb | ap-sul | Coordinates not recorded in Patrik's book | 5-Jul-10 |
| 2010 | Ps-10-013 | 537237 | 6310052 | Star Trench | 2087760 | Rocks | Boulder | 4700 | Glim | - | Glim ctc, bldr | 5-Jul-10 |
| 2010 | Ps-10-018 | 537292 | 6310189 | Star Trench | 2087774 | Rocks | Boulder | -1 | Glim / Carb (S3)? | ctc Glim and Carb (S3)? | Maybe bldr, sample 87428 | 5-Jul-10 |
| 2010 | Ps-10-020 | 537370 | 6310185 | Star Trench | 2087774 | Rocks | Boulder | -1 | dol-Carb | - | rnd bldr, hard to break, looks like it has inclusions of flint, could be qtzite | 5-Jul-10 |
| 2010 | Ps-10-022 | 537411 | 6310123 | Star Trench | 2087760 | Rocks | Boulder | 2000 | dol-Carb | - | Sample near bedrock but same as br | 5-Jul-10 |
| 2010 | Ps-10-05-1000C | 537244 | 6310070 | Star Trench | 2087760 | Rocks | Boulder | 1000 | Carb (S3)? | - | bldr?, coordinates not recorded in Patrik's book, Rob's adding | 5-Jul-10 |
| 2010 | Ps-OC-10-001 | 538155 | 6310460 | Southeast | 1007658 | Rocks | Outcrop | -1 | - | - | - | 12-Jul-10 |
| 2010 | Quartzite? | 536723 | 6310173 | East Valcourt | 2087773 | Rocks | - | -1 | Quartzite? | - | - | 11-Jul-10 |
| 2010 | Ridgeline OC | 536351 | 6312002 | Ashram | 2087790 | Rocks | Outcrop | -1 | - | - | - | 23-Jul-10 |
| 2010 | Rr10-02 | 545633 | 6305257 | Sareille | 2145657 | Rocks | Outcrop | -1 | cc g-Scht | mostly f.g. gdmass, lt gr, bio-mica (phenos, 10 - 20%, < 7 mm long), cc (~ 5%)? | 2 m tall OC at base of ridge, prob semi-continuous all along?, OC has ~ flat lying beds, 225/11 NW (bedding) | 3-Jul-10 |
| 2010 | Rr10-03 | 545541 | 6305376 | Sareille | 2145657 | Rocks | Outcrop | -1 | cc g-Scht | f.g., gr, meta-Volc (some) | Top half of OC has stronger layering (more fis), bottom half shows slight fabric, same orientation, 344/60 (E, layering), might be out of place, hard to tell, small OC emerging from ground, < 1 m tall at N end, possibly lrg bldr? | 3-Jul-10 |
| 2010 | Rr10-04 | 545536 | 6305453 | Sareille | 2145657 | Rocks | Outcrop | -1 | cc g-Scht | mafics (f.g.-v.f.g., gr), meta-Volc (90%) | Good bedding-fol, 070 / 60 S | 3-Jul-10 |
| 2010 | RR10-05 | 545500 | 6305548 | Sareille | 2145657 | Rocks | Outcrop | -1 | cc g-Scht | lt gy-gr, blk surf, str fabric, wavy, cc (80%, br-tan pockets-pods throughout), qtz (veins, xcut, mm), msc (5 - 15%), bio-nph?-amph?, Carb?, Mbl? | Continuation of hill to N, layers-beds steeply dipping, 75 - 90, may not be in place, another OC 10 m N, 353/70 (E, layering, excellent), this OC has tight folding, OCs look solid, but may be out of place) | 3-Jul-10 |
| 2010 | RR10-06 | 545488 | 6305668 | Sareille | 2145670 | Rocks | Outcrop | -1 | cc g-Scht | f.g., dk gr, amph (20 - 40%), cc (30 - 50%) | Ok exposure around wpt, OC < 4m2, looks like meta-Volc but good HCl rxn, good layering, lrg OC 150 m SE of station, blk cbnt-rich rock, cc pods and qtz vns (continue for 200 m to N, abnt, most look out of place) | 3-Jul-10 |
| 2010 | Rr10-07 | 545461 | 6305908 | Sareille | 2145670 | Rocks | Boulder | -1 | - | blk, Carb-rich rock | Gigantic bldr field, 50 m long x 15 m wide, trending NNW | 3-Jul-10 |
| 2010 | Rr10-08 | 545488 | 6306110 | Sareille | 2145670 | Rocks | Outcrop | -1 | Carb (S4)? | f.g., dk gy, mafic-rich, some og wthg, leuco bnds (some, qtz?, fsp?), qtz (vns, occasional), no HCl rxn, v. hard | OC 2 - 3 m tall, continues NNW + SSE for 15 m each way at least, small bldr found on top of OC (layered, dk centre, fl vns (abnt, small), encompassed by p-r, no HCl rxn on fresh surf, Carb (S4)? | 3-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------|---|--|-----------|
| 2010 | RR10-09 | 545349 | 6306159 | Sareille | 2145670 | Rocks | Boulder | -1 | Carb / WR | Half country(?) rock - fis, fol / half Carb(?) - ± fl? (vns) | Small clearing with many bldrs, lrg bldr (> 2 x 4 m) found 20-30 m N of wpt, Carb, sample taken | 3-Jul-10 |
| 2010 | RR10-10 | 545122 | 6306685 | Sareille | 2145681 | Rocks | Boulder | -1 | - | br-blk, vns xcut-layered, typical | lrg bldr in swamp, closest thing to good soil, no kicks on scint | 3-Jul-10 |
| 2010 | 87401 | 540086 | 6314136 | North of Beckling | 2142216 | Rocks | Boulder | 1300 | Non-Carb | - | Station found with scint, 1 m ² area, 1300 cps after hole dug, sample is ~350 cps, sample 87401 | 8-Jul-10 |
| 2010 | RR10-19 | 539879 | 6314116 | North of Beckling | 2142215 | Rocks | Boulder | -1 | Scht? | fol, mostly gr mins (amph?, acicular) | lrg bldr sticking up | 8-Jul-10 |
| 2010 | 87402 | 539824 | 6313752 | North of Beckling | 2111152 | Rocks | Outcrop | 1800 | - | dk gy, met, qtz-fsp (leuco, some diss, some bnds), ap (5 - 10%), ukn mins (blk, show cleavage-face occasionally) | OC found with scint, only few cm ground cover, 1800 cps after exposed, chip sample ~ 300 cps, mostly restricted to 1 m ² , sample 87402 | 8-Jul-10 |
| 2010 | 87403 | 539861 | 6313740 | North of Beckling | 2111152 | Rocks | Boulder | 300 | Non-Carb | f.g., dk gy, mass | Continuation of RR10-22?, same topography, 1 m ² , 300 cps all around, chip sample, 5 m from station: Phyl float (gr, bio pbl (< 6 mm), cc (some), sample 87403 | 8-Jul-10 |
| 2010 | Rr10-25 | 539903 | 6312853 | Beckling | 2111150 | Rocks | Boulder | -1 | Phyl / g-Scht | - | Couple house-sized rocks, most likely bldrs-not in situ | 8-Jul-10 |
| 2010 | 87405 | 539912 | 6312738 | Beckling | 2111150 | Rocks | Outcrop | 250 | Mbl / meta-Sed | f.g., blk-dk br, mass, homo, mafics (~ 90%), bio (30%), qtz (~ 10%), dol rock, Dac? or Mdst? | lrg OC (> 2 m tall, tracks), v. uniform-homo over entire OC, OC continues for 100s m to E, < 5 m high, sample 87405 | 8-Jul-10 |
| 2010 | 87406 | 539957 | 6312635 | Beckling | 2111150 | Rocks | Outcrop | 2300 | Mbl / meta-Sed | f.g., gy, mass, dol (abnt, few clsts locly, > 90% - clsts and mtz), qtz (parallel series of tension gashes-vnlets, 15 - 20 cm long, angled in bnds 10 - 15 cm thick), clsts < 10 x 3 cm, almost a conglomerate, Carb? | Continuation of OC, 2300 cps 10 m to SW (sample 539945, 6312632 E), further to E semi-continuous exposure, fol/fis meta-Sed (on top of dol rock), dol rock on top of this, further to S, minimal to no exposure between RR10-27 amd 28, sample 87406 | 8-Jul-10 |
| 2010 | RR10-29 | 540230 | 6312751 | Beckling | 2111151 | Rocks | Boulder | 5000 | - | - | 2 lrg bldrs (2 x 3 m), in high cps area, 3000 - 5000 cps, ground is > 1000 cps (subcrop?), RA for ~ 50 m to ENW, continues in subcrop to next OC in S, coordinates incorrect in sample book (540231, 631255 E), sample 87408 | 10-Jul-10 |
| 2010 | 87420 | 540257 | 6312723 | Beckling | 2111151 | Rocks | Outcrop | -1 | chl Scht | variable g. size (f.g.-c.g.), br-gy-pale gr, mass, amph-hbl (pheno, < 8 mm, 10%), fsp-neph (20%), ukn min (soft, gr, chl?, 70 - 80%) | OC rock, but some lrg bldrs at E end (calving), more isolated OC 12 m to N, Gr float at W end of OC, sample 87420 | 10-Jul-10 |
| 2010 | 87417 | 540453 | 6312589 | Beckling | 2111151 | RA Reading | - | -1 | - | - | Up to 400 cps, all dead surrounding, sample 87417 | 10-Jul-10 |
| 2010 | RR10-36 | 540904 | 6312356 | MC Exposure | 2142206 | Rocks | - | 400 | g-Scht | bio (pbl) | Coordinates not recorded in Rob's book | 10-Jul-10 |
| 2010 | 87418 | 540919 | 6312231 | MC Exposure | 2142206 | Rocks | - | 500 | dol-Carb | - | Small OC or float?, 15 m NNE is subcrop (and all around) with 300 - 500 cps, sample 87418 | 10-Jul-10 |
| 2010 | RR10-41 | 537402 | 6312999 | Miranna | 2087800 | Rocks | - | 2000 | dol-Carb | - | Hit 1700 cps, turned N towards trench > 2000 cps | 16-Jul-10 |
| 2010 | 87459 | 537027 | 6313022 | Miranna | 2087800 | Rocks | Boulder | 1000 | dol-Carb | - | Area of 500 - 1000 cps, here float at ~ 1000 cps, sample 87459 | 16-Jul-10 |
| 2010 | 87460 | 537036 | 6313002 | Miranna | 2087800 | Rocks | Boulder | 3800 | dol-Carb | - | Follow-up on historic sample (2900 cps), located flag, 3800 cps, pulled out some rock, up to 400 cps HS, sample 87460 | 16-Jul-10 |
| 2010 | 87461 | 537043 | 6312983 | Miranna | 2087800 | Rocks | Boulder | 5000 | dol-Carb | - | Followed scint, hot trend continues to S > 50 m, rock similar to RR10-43, sample 87461 | 16-Jul-10 |
| 2010 | 87462 | 537077 | 6313040 | Miranna | 2087800 | Rocks | Outcrop | 3000 | dol-Carb | m. to c.g., p-br-gy, mass to wkly bnd, competent, melano, max trisul, dol > cc, hard to break (> than cc-Carb) | Small ridge (~5 m tall), running ~ N-S, > 50 m long, probable OC along W side, 2000 - 3000 cps, sample 87462 | 16-Jul-10 |
| 2010 | 87463 | 537016 | 6312930 | Miranna | 2087800 | Rocks | Boulder | 1500 | dol-Carb | - | Likely float, but likely all the same underneath, bldrs all around, area is 400 - 1500 cps everywhere, bldrs all similar, Carb, sample 87463 | 16-Jul-10 |
| 2010 | 87464 | 536950 | 6312962 | Miranna | 2087799 | Rocks | Boulder | 5000 | dol-Carb | - | Float?, might be OC, several bldrs sticking out, subcrop below?, 3000 - 5000 cps found 10 m to NW (next wpt, RR10-48), same rock as RR10-42, sample 87464 | 16-Jul-10 |
| 2010 | 87465 | 536943 | 6312966 | Miranna | 2087799 | Rocks | Subcrop? | 5000 | cc-Carb | - | > 5000 cps, all same rock underneath (subcrop?), 15 m N is float-subcrop under tree (800 cps, dol (abnt, pheno, < 1 cm), sample 87465 | 16-Jul-10 |
| 2010 | 87466 | 536795 | 6313032 | Miranna | 2087799 | Rocks | Outcrop | 1500 | dol-Carb | v.f.g.-f.g., m.g. in places, lt to dk gy, gy and r-br withd, mass, homo, ap? (< 50%), dol (40 - 80%), sul (trace) | OC 2 - 4 m high, > 30 m long, NW-SE (curved slightly), some vegetation cover, pretty hard, 250 - 1500 cps, overall mass, planar fracs at all angles, series of fracs that are subparallel, separate blocks, 15 - 70 cm thick, 336/51 (W), sample 87466 | 16-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|---|---|-----------|
| 2010 | 87467 | 536632 | 6312645 | Ashram | 2087791 | Rocks | Outcrop | 2000 | cc-Carb | pk-tan, tan wthd, blocky, mass, cc (80 - 90%), fl (trace, in vs < 1 cm wide and clusters), mag (< 10%), ap?, sul (trace), br-blk phase (few %, especially at frags, and some its!) | Good OC, 3 - 4 m tall facing S, > 30 m long, high cps on ground at base (< 4000 cps), 2000 cps on rocks, sample 87467 | 16-Jul-10 |
| 2010 | 87468 | 536647 | 6312641 | Ashram | 2087791 | Rocks | Subcrop | 5000 | - | - | 20 m from base of RR10-54, 5000 cps at surf, sample is > 2000 cps, sample 87468 | 16-Jul-10 |
| 2010 | RR10-58 | 536854 | 6312772 | Miranna | 2087791 | Rocks | Boulder | -1 | dol-Carb | - | Cluster of bldrs emerging from ground, could be autochthonous, may be sucrop under?, sample 87470 | 16-Jul-10 |
| 2010 | RR10-67 | 537108 | 6310369 | Star Trench | 2087774 | Rocks | Boulder | -1 | - | m.g., blk, met, dol? (tan mtx, < 50%), bio (abnt, 10-25%), many vnlts throughout, all orientations | Small couple bldrs under lots of soil, tree collapsed to expose, likely subcrop, same as sample 87602 | 22-Jul-10 |
| 2010 | Sample | 537830 | 6310584 | Southeast | 1007657 | Rocks | Boulder | -1 | - | - | - | 22-Aug-10 |
| 2010 | Sb-PS-25 | 537307 | 6310053 | Star Trench | 2087760 | Rocks | - | -1 | Gr | - | Dipping ~ 8 deg W | 8-Jul-10 |
| 2010 | Sed/lim | 541437 | 6311600 | MC Exposure | 2111148 | Rocks | - | -1 | Glim | - | - | 28-Jun-10 |
| 2010 | SS10-001 | 535742 | 6313957 | North Glim | 2087807 | Rocks | Boulder | 1500 | Gr | m.g., pk, fsp-qtz-amph, felsic (90%) | 2 rock types?, higher ~ 1000 cps (?), lower ~ 1500 cps, ~ 2 m bldr | 28-Jun-10 |
| 2010 | SS10-002 | 535681 | 6313879 | North Glim | 2087807 | Rocks | Outcrop | 400 | - | - | OC total 220 m, samples 83303, 83304 | 28-Jun-10 |
| 2010 | SS10-003 | 535787 | 6313918 | North Glim | 2087807 | Rocks | Outcrop | -1 | Glim | f.g., med gy, xtln, mica-py | Sample 83305 | 28-Jun-10 |
| 2010 | SS10-004 | 535761 | 6313892 | North Glim | 2087807 | Rocks | Outcrop | -1 | Carb | Carb vning | Samples 70015, 70016 | 28-Jun-10 |
| 2010 | SS10-005 | 535743 | 6313885 | North Glim | 2087807 | Rocks | Outcrop | -1 | Glim | - | Samples 70048, 70014, 39052 | 1-Jul-10 |
| 2010 | SS10-006 | 535709 | 6313907 | North Glim | 2087807 | Rocks | Outcrop | -1 | dol-Carb | - | Possible ct?, frost heave, sample 83306 | 1-Jul-10 |
| 2010 | Ss10-007 | 536142 | 6312062 | Ashram | 2087790 | RA Reading | - | 1000 | - | - | cps reading | 1-Jul-10 |
| 2010 | Ss10-008 | 536186 | 6312126 | Ashram | 2087790 | RA Reading | - | 2800 | - | - | cps reading | 1-Jul-10 |
| 2010 | Ss10-009 | 536200 | 6312126 | Ashram | 2087790 | RA Reading | - | 1200 | - | - | cps reading | 1-Jul-10 |
| 2010 | SS10-010 | 536174 | 6312140 | Ashram | 2087790 | RA Reading | - | 2000 | - | - | cps reading | 1-Jul-10 |
| 2010 | Ss10-010 | 536150 | 6312049 | Ashram | 2087790 | RA Reading | - | 1500 | - | - | cps reading | 1-Jul-10 |
| 2010 | SS10-011 | 536166 | 6312122 | Ashram | 2087790 | RA Reading | - | 1800 | - | - | cps reading | 1-Jul-10 |
| 2010 | SS10-012 | 536136 | 6312064 | Ashram | 2087790 | RA Reading | - | 1400 | - | - | cps reading | 1-Jul-10 |
| 2010 | SS10-013 | 536110 | 6312054 | Ashram | 2087790 | RA Reading | - | 1000 | - | - | cps reading | 1-Jul-10 |
| 2010 | SS10-014 | 536135 | 6312060 | Ashram | 2087790 | Rocks | Outcrop | 1000 | Carb (S4) | - | cps reading, SS10-014 is a cps station, likely OC same station as APR10-011 | 1-Jul-10 |
| 2010 | SS10-015 | 535704 | 6313874 | North Glim | 2087807 | RA Reading | - | 1500 | - | - | - | 1-Jul-10 |
| 2010 | SS10-015 | 544667 | 6307181 | Sareille | 2145681 | RA Reading | - | 150 | - | - | - | 2-Jul-10 |
| 2010 | SS10-016 | 535698 | 6313861 | North Glim | 2087807 | RA Reading | - | 1700 | - | - | - | 1-Jul-10 |
| 2010 | Ss10-016 | 544625 | 6307065 | Sareille | 2145680 | RA Reading | - | 450 | - | - | - | 2-Jul-10 |
| 2010 | SS10-017 | 535674 | 6313818 | North Glim | 1007890 | RA Reading | - | 2200 | - | - | - | 1-Jul-10 |
| 2010 | Ss10-017 | 544588 | 6307004 | Sareille | 2145680 | RA Reading | - | 100 | - | - | - | 2-Jul-10 |
| 2010 | Ss10-018 | 535662 | 6313804 | North Glim | 1007890 | RA Reading | - | 500 | - | - | - | 1-Jul-10 |
| 2010 | SS10-018 | 544566 | 6307038 | Sareille | 2145680 | Rocks | Outcrop | 100 | Scht | m.g., gr-gy (5GY 6/1), dk gy (N3) wthd, msc-bio-qtz | lrg OC, 140/10 (fol), sample 83319 | 2-Jul-10 |
| 2010 | Ss10-020 | 544679 | 6306886 | Sareille | 2145681 | RA Reading | - | 150 | - | - | - | 2-Jul-10 |
| 2010 | SS10-021 | 544863 | 6306932 | Sareille | 2145681 | RA Reading | - | 230 | - | - | - | 2-Jul-10 |
| 2010 | SS10-022 | 544878 | 6306708 | Sareille | 2145681 | RA Reading | - | 100 | - | - | - | 2-Jul-10 |
| 2010 | SS10-023 | 545094 | 6306633 | Sareille | 2145681 | RA Reading | - | 85 | - | - | - | 2-Jul-10 |
| 2010 | SS10-024 | 545166 | 6306445 | Sareille | 2145669 | RA Reading | - | 120 | - | - | - | 2-Jul-10 |
| 2010 | SS10-025 | 545198 | 6305836 | Sareille | 2145670 | RA Reading | - | 150 | - | - | - | 2-Jul-10 |
| 2010 | SS10-026 | 545145 | 6305793 | Sareille | 2145669 | RA Reading | - | 600 | - | - | - | 2-Jul-10 |
| 2010 | SS10-027 | 545117 | 6305369 | Sareille | 2145656 | Rocks | Outcrop | 50 | Scht | - | bldr on ridge-small OC (> 3 m2), huge interesting ridge 110 deg from here | 2-Jul-10 |
| 2010 | SS10-029 | 540062 | 6312825 | Beckling | 2111151 | Rocks | Boulder | 130 | - | tetra (met, dk b-gy, < 3 mm, diss), folds, circular vugs wthd out (cbnt) of sil-rich mtx, vesicular text outside (not inside) | Two lrg bldrs 3 x 3 m, 3 x 2.5 m, comments and description from Aug 9, no coordinates noted in field book | 10-Jul-10 |
| 2010 | SS10-030 | 539965 | 6312430 | Beckling | 2111150 | Rocks | Boulder | 170 | - | - | - | 10-Jul-10 |
| 2010 | 1200Cps | 538603 | 6309579 | Star Trench | 2087763 | Rocks | Boulder | 1200 | meta-Volc | bio (v.f.g.) mass, mag (diss), sil (abnt, hard, no HCl rxn), qtz (vns, xcut) | Taken as HS | 17-Aug-10 |
| 2010 | SS10-031 | 539940 | 6312380 | Beckling | 2111150 | Rocks | Boulder | 320 | - | f.g., med gy, mica (v. f.g., throughout, too small to be specific), oxidized, calcareous | bldr ~ 2.5 m wide, 2 m high, sub-ang | 10-Jul-10 |
| 2010 | SS10-032 | 539861 | 6312312 | Beckling | 2111150 | Rocks | Boulder | 400 | - | - | - | 10-Jul-10 |
| 2010 | Ss10-032 | 539417 | 6309499 | East of Star | 2087764 | Rocks | Boulder | -1 | meta-Volc | v.f.g., dk gy, mafics (90%), mag (diss), sul (m.g., tetra, euh, diss), gal? (blk-gy-b, ~ 1%) | - | 19-Aug-10 |
| 2010 | SS10-033 | 539733 | 6312142 | Beckling | 2111150 | Rocks | Boulder | 250 | - | - | sub-ang | 10-Jul-10 |
| 2010 | SS10-034 | 539766 | 6312057 | Beckling | 2111150 | Rocks | Boulder | 300 | - | - | ang | 10-Jul-10 |
| 2010 | SS10-034 | 539626 | 6308501 | East of Star | 2087753 | Rocks | - | -1 | - | lt b-gy, med gy wthd, fol, mag (f.g., diss, perv), sul (few, diss), calcareous, micaceous (c.g.) | ang bldr, same as sample 67754 | 19-Aug-10 |
| 2010 | SS10-035 | 539849 | 6311923 | Enterprise | 2087788 | Rocks | Boulder | 500 | - | - | - | 10-Jul-10 |
| 2010 | SS10-036 | 539969 | 6331187 | Off Claims | 0 | Rocks | Boulder | 275 | - | - | - | 10-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------|--|---|-----------|
| 2010 | S510-037 | 540279 | 6311708 | MC Exposure | 2111146 | Rocks | Boulder | 175 | - | - | - | 10-Jul-10 |
| 2010 | S510-039 | 540391 | 6311848 | MC Exposure | 2111146 | Rocks | Boulder | 250 | - | - | - | 10-Jul-10 |
| 2010 | S510-040 | 540551 | 6311914 | MC Exposure | 2111146 | Rocks | Boulder | 275 | - | - | - | 10-Jul-10 |
| 2010 | S510-041 | 540607 | 6311952 | MC Exposure | 2111147 | Rocks | Boulder | 450 | Scht | - | Same Scht as before | 10-Jul-10 |
| 2010 | Start | 545610 | 6305100 | Sareille | 2145657 | Rocks | Outcrop | -1 | cc-g-Scht | f.g.-v.f.g., dk gr to gy, qtz (occasional nodules scattered), mafic (abnt, 90%), meta-Volc (basalt?) | lrg rnd trending ~ N-S, good exposure, OC shows fabric, some metre scale folding, "beds" spaced at < 5 cm, jagged wthd surf, spires (?) 1 - 2 cm bndg (?) "shark tooth" | 3-Jul-10 |
| 2010 | TR10-015 | 537295 | 6310077 | Star Trench | 2087760 | Rocks | Outcrop | -1 | - | - | - | 17-Jul-10 |
| 2010 | tr OC15 | 535975 | 6309862 | West Valcourt | 2087758 | Rocks | Outcrop | -1 | - | - | - | 5-Jul-10 |
| 2010 | Trench 9 | 538505 | 6310649 | Southeast | 1007658 | Culture | Trench | 1800 | dol-Carb | c.g., b-gy to gr-gy, gy-br wthd, sul (abnt), blk min (anh to suh) | - | 15-Aug-10 |
| 2010 | 1000Cps | 536924 | 6318128 | North Block | 2118793 | RA Reading | - | 1000 | - | - | bldr field, rnd to sub-ang, 500 - 800 cps with local highs (coordinates not in field notes) | 16-Aug-10 |
| 2010 | 1011 Cps | 537150 | 6312946 | Miranna | 2087800 | RA Reading | - | 1011 | - | - | - | 15-Jul-10 |
| 2010 | 1158Cps | 537654 | 6310308 | Star Trench | 1007657 | RA Reading | - | 1158 | - | - | - | 22-Aug-10 |
| 2010 | 1158kgd | 538309 | 6310003 | Star Trench | 2087762 | RA Reading | - | 115 | - | - | - | 17-Aug-10 |
| 2010 | 1200Cps | 538603 | 6309579 | Star Trench | 2087763 | RA Reading | - | 1200 | - | - | - | 17-Aug-10 |
| 2010 | 2000Cps | 537810 | 6311250 | Southeast | 1007659 | RA Reading | - | 2000 | - | - | - | 12-Jul-10 |
| 2010 | 2800 Cps O/c? | 535804 | 6312157 | Northwest | 1007661 | Rocks | Outcrop | 2800 | - | - | - | 30-Jun-10 |
| 2010 | 4000Cps? | 537750 | 6311350 | Miranna | 1007659 | RA Reading | - | 4000 | - | - | - | 12-Jul-10 |
| 2010 | 500Cps | 536965 | 6316637 | North Block | 2142244 | RA Reading | - | 500 | - | - | - | 13-Aug-10 |
| 2010 | 800Cps | 536933 | 6317852 | North Block | 2118793 | RA Reading | - | 800 | - | - | - | 16-Aug-10 |
| 2010 | Aug17DROP | 538008 | 6309767 | Star Trench | 2087761 | Culture | HeliDrop | -1 | - | - | - | 17-Aug-10 |
| 2010 | Aug1910HELIDRP | 539000 | 6309350 | East of Star | 2087763 | Culture | HeliDrop | -1 | - | - | - | 19-Aug-10 |
| 2010 | Aug19DROP | 539847 | 6309885 | Southeast | 2087765 | Culture | HeliDrop | -1 | - | - | - | 19-Aug-10 |
| 2010 | Cat | 535187 | 6440554 | Off Claims | 0 | Culture | CAT | -1 | - | - | - | 24-Mar-10 |
| 2010 | Cat1 | 530415 | 6386506 | Off Claims | 0 | Culture | CAT | -1 | - | - | - | 21-May-10 |
| 2010 | Cat2 | 529657 | 6375499 | Off Claims | 0 | Culture | CAT | -1 | - | - | - | 21-May-10 |
| 2010 | Cat3 | 535871 | 6311068 | East Valcourt | 2087782 | Culture | CAT | -1 | - | - | - | 21-May-10 |
| 2010 | Cat4 | 529467 | 6374067 | Off Claims | 0 | Culture | CAT | -1 | - | - | - | 29-Jul-10 |
| 2010 | Cps450 | 529877 | 6313890 | Northwest of Camp | 0 | RA Reading | - | 450 | - | - | - | 11-Aug-10 |
| 2010 | Cps5800 | 537042 | 6312993 | Miranna | 2087800 | RA Reading | - | 5800 | - | - | - | 16-Jul-10 |
| 2010 | Drop | 545000 | 6310500 | Hodge-Podge | 0 | Culture | HeliDrop | -1 | - | - | - | 30-Jun-10 |
| 2010 | Glimbest | 535740 | 6313886 | North Glim | 2087807 | Rocks | Outcrop | -1 | - | - | - | 5-Aug-10 |
| 2010 | Heli | 537297 | 6313046 | Miranna | 2087800 | Culture | HeliDrop | -1 | - | - | - | 3-Aug-10 |
| 2010 | Heli | 536902 | 6316449 | North Block | 2111160 | Culture | HeliDrop | -1 | - | - | - | 12-Aug-10 |
| 2010 | Heli Site | 538036 | 6310961 | Southeast | 1007658 | Culture | HeliDrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | Heli? | 537273 | 6316122 | North Block | 2142232 | Culture | HeliDrop | -1 | - | - | - | 12-Aug-10 |
| 2010 | Heli-DROP0710 | 535360 | 6309646 | West Valcourt | 2118787 | Culture | HeliDrop | -1 | - | - | - | 10-Jul-10 |
| 2010 | 702 HELI DROP | 544669 | 6307212 | Sareille | 2145681 | Culture | HeliDrop | -1 | - | - | - | 2-Jul-10 |
| 2010 | Heli Drop | 537869 | 6310982 | Southeast | 1007657 | Culture | HeliDrop | -1 | - | - | - | 12-Jul-10 |
| 2010 | Drop | 538007 | 6309766 | Star Trench | 2087761 | Culture | HeliDrop | -1 | - | - | - | 17-Aug-10 |
| 2010 | Heli Drop | 538011 | 6309759 | Star Trench | 2087761 | Culture | HeliDrop | -1 | - | - | - | 17-Aug-10 |
| 2010 | Hel Drop | 535314 | 6314088 | North Glim | 2111154 | Culture | HeliDrop | -1 | - | - | - | 19-Aug-10 |
| 2010 | Heli Drop | 540496 | 6307921 | South Mag Blowout | 2087740 | Culture | HeliDrop | -1 | - | - | - | 18-Aug-10 |
| 2010 | Helijul19 | 536412 | 6312057 | Ashram | 2087790 | Culture | HeliDrop | -1 | - | - | - | 19-Jul-10 |
| 2010 | Helijul25 | 542852 | 6300816 | Extreme South | 2254860 | Culture | HeliDrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | Helijul28 | 544044 | 6300414 | Extreme South | 2254862 | Culture | HeliDrop | -1 | - | - | - | 28-Jul-10 |
| 2010 | Heli pad Cat | 535791 | 6311053 | East Valcourt | 2087782 | Culture | HeliDrop | -1 | - | - | - | 3-Jul-10 |
| 2010 | Helipad | 538205 | 6310568 | Southeast | 1007658 | Culture | HeliDrop | -1 | - | - | - | 12-Jul-10 |
| 2010 | Heli Pad | 535358 | 6309716 | West Valcourt | 2118787 | Culture | HeliDrop | -1 | - | - | - | 25-Jun-10 |
| 2010 | HelipadJUL13 | 535356 | 6309649 | West Valcourt | 2118787 | Culture | HeliDrop | -1 | - | - | - | 13-Jul-10 |
| 2010 | heli Pickup-16 | 537242 | 6309777 | Star Trench | 2087760 | Culture | HeliDrop | -1 | - | - | - | 27-Jun-10 |
| 2010 | Heli Pickup-15 | 544668 | 6309682 | Hodge-Podge | 2204159 | Culture | HeliDrop | -1 | - | - | - | 30-Jun-10 |
| 2010 | heli Pickup-16 | 537242 | 6309777 | Star Trench | 2087760 | Culture | HeliDrop | -1 | - | - | - | 27-Jun-10 |
| 2010 | Mpju13LANDSITE | 545610 | 6305116 | Sareille | 2145657 | Culture | HeliDrop | -1 | - | - | - | 3-Jul-10 |
| 2010 | Mplandsite | 544667 | 6307184 | Sareille | 2145681 | Culture | HeliDrop | -1 | - | - | - | 2-Jul-10 |
| 2010 | Oc | 543473 | 6302342 | Extreme South | 2145613 | Rocks | Outcrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | Oc? | 538096 | 6317207 | North Block | 2142246 | Rocks | Outcrop? | -1 | - | - | - | 13-Aug-10 |
| 2010 | Oc?? | 538043 | 6309527 | Star Trench | 2087762 | Rocks | Outcrop? | -1 | - | - | - | 17-Aug-10 |
| 2010 | oc1 | 540664 | 6301206 | South of Camp | 2145593 | Rocks | Outcrop | -1 | - | - | - | 24-Jul-10 |
| 2010 | oc2 | 543541 | 6301941 | Extreme South | 2145613 | Rocks | Outcrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | Oc3 | 543527 | 6301719 | Extreme South | 2145598 | Rocks | Outcrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | Oc4 | 543309 | 6301384 | Extreme South | 2145598 | Rocks | Outcrop | -1 | - | - | - | 25-Jul-10 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------------|----------------|-----------------|-------------------|---------|------------------|------------|---------|-----------------|---|---|-----------|
| 2010 | Oc5 | 543156 | 6301107 | Extreme South | 2145597 | Rocks | Outcrop | -1 | - | - | - | 25-Jul-10 |
| 2010 | OcA | 542766 | 6300400 | Extreme South | 2254860 | Rocks | Outcrop | -1 | - | - | - | 27-Jul-10 |
| 2010 | OcB | 542540 | 6300631 | Extreme South | 2254859 | Rocks | Outcrop | -1 | - | - | - | 27-Jul-10 |
| 2010 | Mcoc23 | 531056 | 6314504 | Northwest of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 10-Aug-10 |
| 2010 | Mcoc24 | 530787 | 6314385 | Northwest of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 10-Aug-10 |
| 2010 | Mcoc31 | 529878 | 6314166 | Northwest of Camp | 0 | Rocks | Outcrop | -1 | - | - | - | 11-Aug-10 |
| 2010 | Mcoc34 | 538037 | 6316550 | North Block | 2142234 | Rocks | Outcrop | -1 | - | - | - | 12-Aug-10 |
| 2010 | Mcoc35? | 537651 | 6316314 | North Block | 2142233 | Rocks | Outcrop? | -1 | - | - | - | 12-Aug-10 |
| 2010 | Mcoc36 | 537322 | 6316021 | North Block | 2142232 | Rocks | Outcrop | -1 | - | - | - | 12-Aug-10 |
| 2010 | Mcoc37 | 536896 | 6316503 | North Block | 2111160 | Rocks | Outcrop | -1 | - | - | - | 12-Aug-10 |
| 2010 | Mcoc38 | 536879 | 6316774 | North Block | 2111166 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Mcoc39 | 537187 | 6316670 | North Block | 2142244 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Mcoc40 | 537488 | 6316847 | North Block | 2142245 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Mcoc41 | 537565 | 6316877 | North Block | 2142245 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Mcoc42 | 538143 | 6317239 | North Block | 2142246 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Mcoc43 | 538165 | 6317434 | North Block | 2142246 | Rocks | Outcrop | -1 | - | - | - | 13-Aug-10 |
| 2010 | Ocmp | 537076 | 6313050 | Miranna | 2087800 | Rocks | Outcrop | -1 | - | - | - | 16-Jul-10 |
| 2010 | SS10-004 | 535761 | 6313892 | North Glim | 2087807 | Rocks | - | -1 | Glim | Carb vng | - | 28-Jun-10 |
| 2010 | SS10-005 | 535743 | 6313884 | North Glim | 2087807 | Rocks | - | -1 | Glim | - | - | 28-Jun-10 |
| 2010 | Stuck-CAT | 529697 | 6375405 | Off Claims | 0 | Culture | CAT | -1 | - | - | - | 9-Mar-10 |
| 2010 | S-AP-003 (manual wp) | 538299 | 6310002 | Star Trench | 2087762 | Rocks | Boulder | 1100 | Glim / Carb | dol-Carb - f.g., b-gy, lt og-br wthd, sul (trace), mag (abnt, xtls, mm-scale) / Glim - dk br-blk with pits wthd | mass bldr, 2 m high, 5 m wide, Carb has higher cps readings (600 avg, 1100 max), Carb intruding Glim, mod frost heave | 17-Aug-10 |
| 2011 | 950 | 540227 | 6312809 | Beckling | 2111151 | RA Reading | - | -1 | - | - | - | 6-Jul-11 |
| 2011 | 1500 | 540271 | 6312752 | Beckling | 2111151 | RA Reading | - | 1500 | - | - | - | 7-Jul-11 |
| 2011 | 2299 | 539095 | 6312970 | Beckling | 2087804 | RA Reading | - | 2299 | - | - | - | 11-Aug-11 |
| 2011 | 5700 | 540221 | 6312800 | Beckling | 2111151 | Rocks | Boulder | 6500 | Qtz vn | br rusty crust wthd, gal (cubes), bio (clsts < 2 cm), br min (few cms, good cleavage), qtz vn (90%) | K = 1.7 %, U = 15.3 ppm, Th = 1024 ppm | 6-Jul-11 |
| 2011 | 38712 | 539695 | 6312108 | Beckling | 2111150 | RA Reading | - | 500 | - | - | - | 23-Jul-11 |
| 2011 | 0806-2500 | 539065 | 6313051 | Beckling | 2087804 | RA Reading | - | 2500 | - | - | - | 6-Aug-11 |
| 2011 | 0806-3000 | 539071 | 6313068 | Beckling | 2087804 | RA Reading | - | 3000 | - | - | - | 6-Aug-11 |
| 2011 | 0806-3500 | 539052 | 6313050 | Beckling | 2087804 | RA Reading | - | 3500 | - | - | - | 6-Aug-11 |
| 2011 | OCS11-016 | 540389 | 6312497 | Beckling | 2111151 | Rocks | Outcrop | 100 | - | gr-gy wthd, plag? (30% w, ang, clsts), bio (10%, < 2 mm), chl? (abnt) | Ice flow direction, OC rnd in direction parallel to lake (142 deg) | 6-Jul-11 |
| 2011 | 1000cps | 537128 | 6313566 | Miranna | 2087800 | RA Reading | - | 1000 | - | - | - | 17-Aug-11 |
| 2011 | 1000Cps | 539699 | 6309873 | Southeast | 2087765 | RA Reading | - | 1000 | - | - | - | 17-Aug-11 |
| 2011 | 1000CPS-TRAIL | 535633 | 6309865 | West Valcourt | 2087758 | RA Reading | - | 1000 | - | - | - | 7-Sep-11 |
| 2011 | 10700Cps | 537965 | 6311039 | Southeast | 1007657 | RA Reading | - | 10700 | - | - | - | 3-Aug-11 |
| 2011 | 107601-107602 | 536021 | 6310783 | East Valcourt | 2087772 | RA Reading | - | 260 | - | - | - | - |
| 2011 | 11008Cps | 535235 | 6312112 | West Rim | 1007883 | RA Reading | - | 1100 | - | - | - | 6-Jul-11 |
| 2011 | 1100CPS | 535203 | 6311974 | East Valcourt | 1007883 | RA Reading | - | 1100 | - | - | - | 7-Sep-11 |
| 2011 | 1200CPS | 540276 | 6312831 | Beckling | 2111151 | RA Reading | - | 1200 | - | - | - | 6-Jul-11 |
| 2011 | 1201Cps | 540260 | 6312682 | Beckling | 2111151 | RA Reading | - | 1201 | - | - | - | 7-Jul-11 |
| 2011 | 1202Cps | 541103 | 6311890 | MC Exposure | 2111148 | RA Reading | RA Reading | 1202 | - | - | - | 23-Jul-11 |
| 2011 | 1250Cps | 535150 | 6313619 | West Rim | 1007889 | RA Reading | - | 1250 | - | - | - | 19-Aug-11 |
| 2011 | 125CPS | 538269 | 6312713 | Miranna | 2087794 | RA Reading | - | 500 | Glim | - | - | 10-Aug-11 |
| 2011 | 1300Cps | 541065 | 6311893 | MC Exposure | 2111148 | RA Reading | - | 1300 | - | - | - | 23-Jul-11 |
| 2011 | 1450 CPS | 535607 | 6314051 | North Glim | 2087807 | RA Reading | - | 1450 | - | - | - | 5-Aug-11 |
| 2011 | 1450Cps | 540714 | 6312171 | MC Exposure | 2142206 | RA Reading | - | 1450 | - | - | - | 5-Aug-11 |
| 2011 | 150 Cps | 534679 | 6313227 | West Mag High | 2087797 | RA Reading | - | 150 | - | - | - | 5-Aug-11 |
| 2011 | 150 Cps | 534679 | 6313225 | West Mag High | 2087797 | RA Reading | - | 150 | - | - | - | 5-Aug-11 |
| 2011 | 1500Cps | 541136 | 6311824 | MC Exposure | 2111148 | RA Reading | RA Reading | 1500 | - | - | - | 23-Jul-11 |
| 2011 | 1500Cps | 540664 | 6310074 | Enterprise | 2087767 | Rocks | Boulder | 1500 | - | - | - | 23-Jul-11 |
| 2011 | 1501Cps | 540241 | 6312719 | Beckling | 2111151 | RA Reading | - | 1501 | - | - | - | 7-Jul-11 |
| 2011 | 1502Cps | 540336 | 6312314 | Beckling | 2111151 | RA Reading | - | 1502 | - | - | - | 7-Jul-11 |
| 2011 | 1503Cps | 541089 | 6311856 | MC Exposure | 2111148 | RA Reading | RA Reading | 1503 | - | - | - | 23-Jul-11 |
| 2011 | 1600 Cps Hill | 541099 | 6312100 | MC Exposure | 2142207 | Rocks | Boulder | 1600 | - | - | - | 12-Jul-11 |
| 2011 | 1600Cps | 538222 | 6312111 | Miranna | 2087794 | RA Reading | - | 1600 | - | - | - | 26-Aug-11 |
| 2011 | 1600Cps Bldr | 538506 | 6311359 | Miranna | 1007660 | Rocks | Boulder | 1600 | - | - | - | 31-Aug-11 |
| 2011 | 1700Cps | 541098 | 6311897 | MC Exposure | 2111148 | RA Reading | RA Reading | 1700 | - | - | - | 23-Jul-11 |
| 2011 | 1900Cps | 540099 | 6312576 | Beckling | 2111151 | RA Reading | - | 1900 | - | - | - | 7-Jul-11 |
| 2011 | 2000cps | 538888 | 6313422 | Beckling | 2087803 | RA Reading | - | 2000 | - | - | - | 9-Aug-11 |
| 2011 | 2000Cps | 538246 | 6312199 | Miranna | 2087794 | Rocks | Boulder | 2000 | - | - | Moss-covered bldr, 1 x 0.5 x 0.3 m | 24-Aug-11 |
| 2011 | 200Bq | 539598 | 6312675 | Beckling | 2111150 | RA Reading | - | 200 | - | - | - | 1-Sep-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|--------------|----------------|-----------------|------------------|---------|------------------|------------|---------|------------------------|---|---|-----------|
| 2011 | 200Cps | 536727 | 6313815 | Miranna | 2087799 | RA Reading | - | 400 | - | - | - | 12-Aug-11 |
| 2011 | 2100Cps | 540237 | 6312782 | Beckling | 2111151 | RA Reading | - | 2100 | - | - | - | 7-Jul-11 |
| 2011 | 2200Cps | 538050 | 6310863 | Southeast | 1007658 | RA Reading | - | 2200 | - | - | - | 31-Aug-11 |
| 2011 | 2500Cps | 541103 | 6311811 | MC Exposure | 2111148 | RA Reading | RA Reading | 2500 | - | - | - | 23-Jul-11 |
| 2011 | 2600Cps | 537548 | 6311895 | Miranna | 1007659 | RA Reading | - | 2600 | - | - | - | 26-Aug-11 |
| 2011 | 2600cps BLDR | 538486 | 6311341 | Miranna | 1007660 | Rocks | Boulder | 2600 | - | - | - | 31-Aug-11 |
| 2011 | 300Cps | 535185 | 6312586 | West Rim | 1007883 | RA Reading | - | 300 | - | - | - | 3-Aug-11 |
| 2011 | 351Cps | 540567 | 6312476 | Beckling | 2142206 | RA Reading | - | 351 | - | - | - | 7-Jul-11 |
| 2011 | 3900Cps | 537836 | 6311195 | Southeast | 1007659 | RA Reading | - | 3900 | - | - | - | 30-Aug-11 |
| 2011 | 400BGcps | 535143 | 6312197 | West Rim | 1007883 | RA Reading | - | 400 | - | - | - | 10-Jul-11 |
| 2011 | 4300Cps | 541020 | 6312375 | MC Exposure | 2142206 | Rocks | Boulder | 4300 | - | - | - | 10-Jul-11 |
| 2011 | 4300CpsBLDR | 538262 | 6311207 | Miranna | 1007660 | Rocks | Boulder | 4300 | - | - | - | 31-Aug-11 |
| 2011 | 450Cps | 541674 | 6311640 | MC Exposure | 2111149 | Rocks | Boulder | 450 | Carb? | - | 2.5 x 1 x 1.5 m, moss-covered | 24-Jul-11 |
| 2011 | 5000Cps | 536073 | 6312659 | Northwest | 2087790 | RA Reading | - | 5000 | - | - | Buried bldr, K = 1.7 %, Th = 489.5 ppm, U = 75.6 ppm | 11-Jul-11 |
| 2011 | 500Cps | 541290 | 6310834 | Enterprise | 2087780 | RA Reading | RA Reading | 500 | - | r-br | Organic-rich soil with Carb bldrs, K = 1 %, U = 3 ppm, Th = 90 ppm | 24-Jul-11 |
| 2011 | 5300Cps | 541102 | 6311828 | MC Exposure | 2111148 | RA Reading | RA Reading | 7200 | - | - | - | 23-Jul-11 |
| 2011 | 600 Cps | 541280 | 6312273 | MC Exposure | 2142207 | RA Reading | - | 600 | - | - | At surf on ridge | 12-Jul-11 |
| 2011 | 600 ridge Bg | 538780 | 6310105 | Southeast | 2087763 | RA Reading | - | 600 | - | - | Ridge with high BG RA (400 - 600 cps) | 17-Aug-11 |
| 2011 | 600BGcps | 535090 | 6312610 | West Rim | 1007883 | RA Reading | - | 600 | - | - | - | 10-Aug-11 |
| 2011 | 600Cps | 541157 | 6311691 | MC Exposure | 2111148 | RA Reading | - | 600 | - | - | - | 3-Aug-11 |
| 2011 | 600cps | 536810 | 6313369 | Miranna | 2087799 | RA Reading | - | 600 | - | - | - | 10-Aug-11 |
| 2011 | 600Cps | 535090 | 6312609 | West Rim | 1007883 | RA Reading | - | 600 | - | - | - | 3-Aug-11 |
| 2011 | 6600Cps | 541029 | 6312354 | MC Exposure | 2142206 | RA Reading | - | 6600 | - | - | - | 10-Jul-11 |
| 2011 | 700 Cps | 541544 | 6311041 | MC Exposure | 2087780 | RA Reading | - | 700 | - | - | - | 26-Jul-11 |
| 2011 | 700Cps | 541081 | 6311811 | MC Exposure | 2111148 | RA Reading | RA Reading | 700 | - | - | - | 23-Jul-11 |
| 2011 | 700Cps | 538266 | 6312141 | Miranna | 2087794 | RA Reading | - | 700 | - | - | - | 26-Aug-11 |
| 2011 | 751Cps | 540281 | 6312684 | Beckling | 2111151 | RA Reading | - | 751 | - | - | - | 7-Jul-11 |
| 2011 | 770 CPS BG | 538047 | 6312107 | Miranna | 2087794 | RA Reading | - | 770 | - | - | In dense bush | 10-Aug-11 |
| 2011 | 9000Cps | 539052 | 6313051 | Beckling | 2087804 | RA Reading | - | 9000 | - | - | - | 6-Aug-11 |
| 2011 | 900Cps | 541110 | 6311831 | MC Exposure | 2111148 | RA Reading | RA Reading | 900 | - | - | - | 23-Jul-11 |
| 2011 | 900Cps | 537662 | 6311823 | Miranna | 1007659 | RA Reading | - | 900 | - | - | - | 23-Jul-11 |
| 2011 | 92990 | 535502 | 6313228 | PANDS | 1007890 | Rocks | Outcrop | 3800 | dol-Carb | Carb lens (y-gy) within dol-Carb | PANDS or PAS-ND in notebooks (?), dol-Carb OC | 21-Aug-11 |
| 2011 | 92044 | 539459 | 6311694 | Enterprise | 2087787 | Rocks | Outcrop | -1 | meta-Sed | gy and og-br wthd, wthg occurs along layers, cc (xcut vns, 20 - 30 cm thick), schs? | rnd OC where sample 92044 was collected, 60 x 10 m, strong tectonic influence | 4-Jul-11 |
| 2011 | AD11-002 | 540380 | 6312007 | MC Exposure | 2111146 | Rocks | Boulder | 440 | meta-Sed / metabasalt? | f.g., br-r, wthd, v. fis, mod-well fol, bio-msc, fsp (f.g.-c.g., ± qtz) | - | 4-Jul-11 |
| 2011 | AD11-003 | 540308 | 6311778 | MC Exposure | 2111146 | RA Reading | - | 800 | - | - | Top of flat ridge, soil sample 92002, K = 0.6 %, Th = 16.6 ppm, U = 810 ppm | 4-Jul-11 |
| 2011 | Ad11-011 | 540048 | 6312756 | Beckling | 2111151 | RA Reading | - | 5000 | - | - | Buried bldr on top of ridge, K = 0.0 %, U = 6.1 ppm, Th = 799.5 ppm | 7-Jul-11 |
| 2011 | Akoc-4 | 538833 | 6313032 | Beckling | 2087803 | Rocks | Outcrop | 550 | dol-Carb / WR | dol-Carb - m.g., leuco, mass, poor accessory mins | continuation of OC to north from sample 92492, K = 2.0 %, U = 1.8 ppm, Th = 137.7 ppm | 11-Aug-11 |
| 2011 | B 1 | 539163 | 6312893 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 10 | 539129 | 6312911 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 11 | 539124 | 6312911 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 12 | 539122 | 6312913 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 13 | 539119 | 6312912 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 14 | 539116 | 6312912 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 15 | 539116 | 6312906 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 16 | 539123 | 6312899 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 17 | 539122 | 6312900 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 18 | 539123 | 6312895 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 19 | 539128 | 6312891 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 2 | 539167 | 6312905 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 20 | 539128 | 6312891 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 21 | 539130 | 6312890 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 22 | 539132 | 6312889 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 23 | 539139 | 6312888 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 24 | 539143 | 6312882 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 25 | 539143 | 6312881 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 26 | 539151 | 6312884 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 27 | 539157 | 6312887 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 28 | 539160 | 6312887 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 29 | 539168 | 6312889 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|------------|---------|-----------------|---|---|-----------|
| 2011 | B 3 | 539163 | 6312913 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 4 | 539160 | 6312916 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 5 | 539152 | 6312915 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 6 | 539149 | 6312914 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 7 | 539145 | 6312911 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 8 | 539140 | 6312912 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | B 9 | 539134 | 6312912 | Beckling | 2087796 | RA Reading | RA Reading | 1000 | - | - | Perimeter of area with > 1000 cps BG | 6-Aug-11 |
| 2011 | Bg 120Cps | 541473 | 6311474 | MC Exposure | 2111148 | RA Reading | - | 120 | - | - | Small ridge, no visible OC | 2-Jul-11 |
| 2011 | Bg 121 | 541058 | 6311193 | MC Exposure | 2111147 | RA Reading | - | 121 | - | - | - | 2-Jul-11 |
| 2011 | Bg 125Cps | 540951 | 6311454 | MC Exposure | 2111147 | RA Reading | - | 125 | - | - | - | 2-Jul-11 |
| 2011 | Bg 145Cps | 541259 | 6311465 | MC Exposure | 2111148 | RA Reading | - | 145 | - | - | On top of ridge | 2-Jul-11 |
| 2011 | Bg 160Cps | 541070 | 6311164 | MC Exposure | 2111148 | RA Reading | - | 160 | - | - | bldr field near water | 1-Jul-11 |
| 2011 | Bg 161Cps | 541000 | 6311620 | MC Exposure | 2111147 | RA Reading | - | 161 | - | - | - | 2-Jul-11 |
| 2011 | Bg 175Cps | 541537 | 6311242 | MC Exposure | 2111148 | RA Reading | - | 175 | - | - | Near edge of lake | 1-Jul-11 |
| 2011 | Bg 176Cps | 535925 | 6312462 | Northwest | 1007661 | RA Reading | - | 176 | - | - | Open area | 11-Jul-11 |
| 2011 | Bg 200Cps | 541178 | 6311606 | MC Exposure | 2111148 | RA Reading | - | 200 | - | - | - | 2-Jul-11 |
| 2011 | Bg 202Cps | 540838 | 6311534 | MC Exposure | 2111147 | RA Reading | - | 202 | - | - | - | 23-Jul-11 |
| 2011 | Bg 240Cps | 541178 | 6311731 | MC Exposure | 2111148 | RA Reading | - | 240 | - | - | Along ridge | 2-Jul-11 |
| 2011 | Bg 250Cps | 540744 | 6311560 | MC Exposure | 2111147 | RA Reading | - | 250 | - | - | - | 23-Jul-11 |
| 2011 | Bg 254Cps | 535190 | 6313285 | West Rim | 1007889 | RA Reading | - | 254 | - | - | - | 19-Aug-11 |
| 2011 | Bg 275Cps | 535983 | 6312306 | Ashram | 1007661 | RA Reading | - | 275 | - | - | BG cps msmt | 11-Jul-11 |
| 2011 | Bg 276Cps | 536146 | 6312627 | Northwest | 2087790 | RA Reading | - | 276 | - | - | Near lake | 11-Jul-11 |
| 2011 | BG 290 | 535828 | 6313634 | Triple-D | 1007890 | RA Reading | - | 290 | - | - | BG cps drops heading 070 deg from here | 9-Aug-11 |
| 2011 | Bg 300Cps | 536078 | 6312398 | Ashram | 2087790 | RA Reading | - | 300 | - | - | Swamp at outskirts of bldr field | 11-Jul-11 |
| 2011 | Bg 301Cps | 536089 | 6312691 | Northwest | 2087790 | RA Reading | - | 300 | - | - | RA reduced from 500 cps to 300 cps within 15 paces | 11-Jul-11 |
| 2011 | Bg 350Cps | 540683 | 6311850 | MC Exposure | 2111147 | RA Reading | - | 350 | - | - | - | 23-Jul-11 |
| 2011 | Bg 375Cps | 536002 | 6312338 | Ashram | 2087790 | RA Reading | - | 375 | - | - | BG cps msmt | 11-Jul-11 |
| 2011 | Bg 400 | 539122 | 6312887 | Beckling | 2087796 | RA Reading | - | 400 | - | - | - | 6-Aug-11 |
| 2011 | Bg 600Cps | 536011 | 6312339 | Ashram | 2087790 | RA Reading | - | 600 | - | - | Swamp - bldr field? | 11-Jul-11 |
| 2011 | Bg 775Cps | 536109 | 6312457 | Ashram | 2087790 | RA Reading | - | 775 | Carb | - | "A zone" bldr | 11-Jul-11 |
| 2011 | Bg1000CPS | 535833 | 6313537 | Triple-D | 1007890 | RA Reading | - | 1000 | - | - | - | 21-Aug-11 |
| 2011 | Bg400CPS | 540139 | 6312506 | Beckling | 2111151 | RA Reading | - | 400 | - | - | - | 7-Jul-11 |
| 2011 | BLD1BP090811 | 535028 | 6312574 | West Rim | 1007883 | Rocks | Boulder | 2000 | - | lt gy, rusty r wthd, fl (speck), py (minor) | bldr field, possible low-lying OC? | 8-Sep-11 |
| 2011 | Bld2BP090811 | 535802 | 6313016 | Northwest | 1007890 | RA Reading | Boulder | 1300 | - | lt gy, rusty r wthd | 2 x 2 m area of bldrs | 8-Sep-11 |
| 2011 | Bldr1000cps | 536307 | 6313084 | Northwest | 2087798 | RA Reading | Boulder | 1000 | - | r or blk wthd | 3 lrg bldrs | 10-Aug-11 |
| 2011 | Bldr1300cps | 536448 | 6313162 | Northwest | 2087798 | RA Reading | Boulder | 1300 | - | - | Buried bldr; BG cps 400 - 700 | 10-Aug-11 |
| 2011 | Bldr3500 | 536203 | 6312918 | Northwest | 2087798 | RA Reading | Boulder | 3500 | - | - | - | 10-Aug-11 |
| 2011 | Bldr4600cpsCO | 539301 | 6313661 | North of Beckling | 2087804 | RA Reading | Boulder | 4600 | - | - | - | 9-Aug-11 |
| 2011 | Bldrville | 535129 | 6311703 | West Mag High | 2087781 | Rocks | Boulder | -1 | - | - | - | 5-Sep-11 |
| 2011 | BP BLDR 4150 | 539958 | 6313348 | North of Beckling | 2111152 | RA Reading | Boulder | 4150 | - | dk gy-p, r wthd | 1.5 x 0.75 m | 5-Aug-11 |
| 2011 | BP OC 08/05/11 | 539147 | 6312886 | Beckling | 2087796 | RA Reading | Outcrop | 19000 | metabasalt? | - | 14 m high x 3 m wide, highly vegetated, sample 92363 | 7-Aug-11 |
| 2011 | BP OC 11-07-31 | 542488 | 6310896 | MC Exposure | 2111145 | Rocks | Outcrop | -1 | meta-Sed | amph (abnt, blk, randomly oriented, acicular), qtz (in pockets < few cms), cc, bio Scht to Phyl | Well-exposed ridge, 10 m high and long | 31-Jul-11 |
| 2011 | BP OC76 | 539681 | 6312038 | Enterprise | 2111150 | Rocks | Outcrop? | -1 | - | - | - | 4-Jul-11 |
| 2011 | BP OC7 | 539724 | 6312065 | Beckling | 2111150 | Rocks | Outcrop | -1 | - | - | - | 4-Jul-11 |
| 2011 | BP OC8 | 540250 | 6312415 | Beckling | 2111151 | Rocks | Outcrop | -1 | - | - | - | 4-Jul-11 |
| 2011 | BP11-009 | 540825 | 6312478 | MC Exposure | 2142206 | Rocks | Boulder | 9999 | Glim? | - | - | 7-Jul-11 |
| 2011 | BPOC05 | 539123 | 6312439 | Beckling | 2087796 | Rocks | Outcrop | 180 | - | lt gy, og-br wthd, dol?, mica (f.g., shiny lustre) | Well vegetated OC, poor exposure, sample 92123 | 3-Aug-11 |
| 2011 | BPOC06 | 539171 | 6312677 | Beckling | 2087796 | Rocks | Outcrop | -1 | meta-Sed? | lt gy, og-br wthd | Ridge OC, poor exposure | 3-Aug-11 |
| 2011 | BPOC07 | 539857 | 6313065 | Beckling | 2111152 | Rocks | Outcrop | -1 | meta-Sed? | dk gy, dk gy to ol gy wthd | On lower portion of ridge, poor exposure | 3-Aug-11 |
| 2011 | BPOC83 | 541836 | 6310290 | Enterprise | 2111144 | Rocks | Outcrop | 150 | - | - | - | 31-Jul-11 |
| 2011 | CAT STAGING | 536325 | 6311217 | East Valcourt | 2087783 | Culture | CAT | -1 | - | - | - | 7-Sep-11 |
| 2011 | Contact 1 | 539679 | 6311475 | Enterprise | 2087788 | Rocks | Outcrop | -1 | meta-Sed | ctc between f.g. and c.g. meta-Seds? | - | 4-Jul-11 |
| 2011 | Contact 2 | 539683 | 6311505 | Enterprise | 2087788 | Rocks | Outcrop | -1 | meta-Sed | contact between c.g. meta-Sed? and mag meta-Sed | - | 4-Jul-11 |
| 2011 | CPS 1750 | 534998 | 6312597 | West Rim | 1007883 | RA Reading | Boulder | 1750 | - | - | - | 5-Aug-11 |
| 2011 | Cps 350 | 541849 | 6311676 | MC Exposure | 2111149 | RA Reading | - | 350 | - | - | - | 19-Jul-11 |
| 2011 | Cps 350+ | 534798 | 6313098 | West Rim | 2087797 | RA Reading | - | 350 | - | - | RA increase at this wpt, increasing to the SE from here | 5-Aug-11 |
| 2011 | Cps Inc | 535078 | 6313595 | West Rim | 1007889 | Rocks | Outcrop | 1000 | dol-Carb | f.g., gr | RA increase, K = 3.1 %, U = 4.1 ppm, Th = 120 ppm | 15-Aug-11 |
| 2011 | Cps Lwr | 534864 | 6312881 | West Rim | 2087789 | RA Reading | - | 300 | - | - | RA drops to 300 cps and lower heading W from here | 5-Aug-11 |
| 2011 | CP510-1600 | 539204 | 6312865 | Beckling | 2087796 | RA Reading | - | 1600 | - | - | - | 7-Sep-11 |
| 2011 | CP51100 | 535235 | 6312111 | West Rim | 1007883 | RA Reading | - | 1100 | - | - | - | 3-Aug-11 |
| 2011 | CP511-1000 | 539204 | 6312865 | Beckling | 2087796 | RA Reading | - | 1000 | - | - | - | 7-Sep-11 |
| 2011 | CP51-900 | 539212 | 6312867 | Beckling | 2087796 | RA Reading | - | 900 | - | - | - | 7-Sep-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|-------------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|-------------|---------------------------------------|-----------|
| 2011 | CPS2-1000 | 539227 | 6312868 | Beckling | 2087796 | RA Reading | - | 1000 | - | - | - | 7-Sep-11 |
| 2011 | CPS3-1300 | 539226 | 6312866 | Beckling | 2087796 | RA Reading | - | 1300 | - | - | - | 7-Sep-11 |
| 2011 | CPS400 | 535143 | 6312195 | West Rim | 1007883 | RA Reading | - | 400 | - | - | - | 3-Aug-11 |
| 2011 | CPS4-3100 | 539228 | 6312861 | Beckling | 2087796 | RA Reading | - | 3100 | - | - | - | 7-Sep-11 |
| 2011 | CPS5-1000 | 539226 | 6312830 | Beckling | 2087796 | RA Reading | - | 1000 | - | - | - | 7-Sep-11 |
| 2011 | CPS6-1000 | 539221 | 6312826 | Beckling | 2087796 | RA Reading | - | 1000 | - | - | - | 7-Sep-11 |
| 2011 | CPS7-1900 | 539220 | 6312826 | Beckling | 2087796 | RA Reading | - | 1900 | - | - | - | 7-Sep-11 |
| 2011 | CPS8-320 | 539202 | 6312835 | Beckling | 2087796 | RA Reading | - | 320 | - | - | - | 7-Sep-11 |
| 2011 | CPS9-1800 | 539207 | 6312850 | Beckling | 2087796 | RA Reading | - | 1800 | - | - | - | 7-Sep-11 |
| 2011 | E 1000 | 537498 | 6312817 | Miranna | 2087792 | RA Reading | - | 1000 | - | - | - | 7-Aug-11 |
| 2011 | E 1000A Cps | 537924 | 6312640 | Miranna | 2087793 | RA Reading | - | 1000 | - | - | - | 12-Aug-11 |
| 2011 | E 1000cps | 537373 | 6313021 | Miranna | 2087800 | RA Reading | - | 1000 | - | - | - | 12-Aug-11 |
| 2011 | E 1008 | 539114 | 6312972 | Beckling | 2087804 | RA Reading | - | 1008 | - | - | - | 6-Aug-11 |
| 2011 | E 1009 | 539072 | 6313030 | Beckling | 2087804 | RA Reading | - | 1009 | - | - | - | 6-Aug-11 |
| 2011 | E 1018 | 539101 | 6312996 | Beckling | 2087804 | RA Reading | - | 1018 | - | - | - | 6-Aug-11 |
| 2011 | E 1026 | 539112 | 6312987 | Beckling | 2087804 | RA Reading | - | 1026 | - | - | - | 6-Aug-11 |
| 2011 | E 1090 | 537582 | 6312330 | Miranna | 2087793 | RA Reading | - | 1090 | - | - | - | 7-Aug-11 |
| 2011 | E 1100 | 535152 | 6312601 | West Rim | 1007883 | RA Reading | - | 1100 | - | - | - | 4-Aug-11 |
| 2011 | E 1100Cps | 535251 | 6312306 | West Rim | 1007883 | RA Reading | - | 1100 | - | - | - | 21-Aug-11 |
| 2011 | E 1102 | 534868 | 6312981 | West Rim | 2087797 | RA Reading | - | 1102 | - | - | - | 5-Aug-11 |
| 2011 | E 1108 | 539110 | 6312950 | Beckling | 2087804 | RA Reading | - | 1108 | - | - | - | 6-Aug-11 |
| 2011 | E 1111 | 539057 | 6313052 | Beckling | 2087804 | RA Reading | - | 1111 | - | - | - | 6-Aug-11 |
| 2011 | E 1116 | 537327 | 6313009 | Miranna | 2087800 | RA Reading | - | 1116 | - | - | - | 7-Aug-11 |
| 2011 | E 1123 | 535781 | 6313623 | Triple-D | 1007890 | RA Reading | - | 1123 | - | - | - | 8-Aug-11 |
| 2011 | E 1140 | 535137 | 6312672 | West Rim | 1007883 | RA Reading | - | 1140 | - | - | - | 4-Aug-11 |
| 2011 | E 1146 | 535108 | 6312421 | West Rim | 1007883 | RA Reading | - | 1146 | - | - | - | 4-Aug-11 |
| 2011 | E 1150 | 534875 | 6313065 | West Rim | 2087797 | RA Reading | - | 1150 | - | - | - | 5-Aug-11 |
| 2011 | E 1179 | 535154 | 6312593 | West Rim | 1007883 | RA Reading | - | 1179 | - | - | - | 4-Aug-11 |
| 2011 | E 1180 | 535128 | 6312594 | West Rim | 1007883 | RA Reading | - | 1180 | - | - | - | 4-Aug-11 |
| 2011 | E 1193 | 535128 | 6312578 | West Rim | 1007883 | RA Reading | - | 1193 | - | - | - | 4-Aug-11 |
| 2011 | E 1200 | 537861 | 6312155 | Miranna | 2087793 | RA Reading | - | 1200 | - | - | - | 7-Aug-11 |
| 2011 | E 1200 | 535109 | 6312617 | West Rim | 1007883 | RA Reading | - | 1200 | - | - | - | 4-Aug-11 |
| 2011 | E 1200Cps | 537175 | 6312384 | Miranna | 2087792 | RA Reading | - | 1200 | - | - | - | 12-Aug-11 |
| 2011 | E 1210 | 535118 | 6312591 | West Rim | 1007883 | RA Reading | - | 1210 | - | - | - | 4-Aug-11 |
| 2011 | E 1220 | 535121 | 6312585 | West Rim | 1007883 | RA Reading | - | 1220 | - | - | - | 4-Aug-11 |
| 2011 | E 1240 | 535000 | 6312888 | West Rim | 1007883 | RA Reading | - | 1240 | - | - | - | 5-Aug-11 |
| 2011 | E 1241 RND | 537882 | 6312143 | Miranna | 2087793 | Rocks | Boulder | 1241 | dol-Carb | - | rnd bldr, 1.2 x 0.7 m, resistant bnds | 7-Aug-11 |
| 2011 | E 1250 | 534875 | 6313071 | West Rim | 2087797 | RA Reading | - | 1250 | - | - | - | 5-Aug-11 |
| 2011 | E 1257 | 535003 | 6312896 | West Rim | 1007889 | RA Reading | - | 1257 | - | - | - | 5-Aug-11 |
| 2011 | E 1260Cps | 535631 | 6313976 | North Glim | 2087807 | RA Reading | - | 1260 | - | - | - | 15-Aug-11 |
| 2011 | E 1274 | 539052 | 6313050 | Beckling | 2087804 | RA Reading | - | 1274 | - | - | - | 6-Aug-11 |
| 2011 | E 1300Cps | 535726 | 6313886 | North Glim | 2087807 | RA Reading | - | 1300 | - | - | - | 15-Aug-11 |
| 2011 | E 1301 | 534868 | 6313034 | West Rim | 2087797 | RA Reading | - | 1301 | - | - | - | 5-Aug-11 |
| 2011 | E 1302 | 535025 | 6312893 | West Rim | 1007883 | RA Reading | - | 1302 | - | - | - | 5-Aug-11 |
| 2011 | E 1321 | 535026 | 6312575 | West Rim | 1007883 | RA Reading | - | 1321 | - | - | - | 4-Aug-11 |
| 2011 | E 1343 | 535751 | 6313590 | Triple-D | 1007890 | RA Reading | - | 1343 | - | - | - | 8-Aug-11 |
| 2011 | E 1355 | 534869 | 6312991 | West Rim | 2087797 | RA Reading | - | 1355 | - | - | - | 5-Aug-11 |
| 2011 | E 1356 | 535850 | 6313413 | Triple-D | 1007890 | RA Reading | - | 1356 | - | - | - | 8-Aug-11 |
| 2011 | E 1360 | 535099 | 6312520 | West Rim | 1007883 | RA Reading | - | 1360 | - | - | - | 4-Aug-11 |
| 2011 | E 1365 | 535130 | 6312584 | West Rim | 1007883 | RA Reading | Boulder | 1365 | - | - | - | 4-Aug-11 |
| 2011 | E 1387 RND | 537839 | 6312224 | Miranna | 2087793 | Rocks | Boulder | 1387 | - | - | - | 7-Aug-11 |
| 2011 | E 1390 | 535163 | 6312721 | West Rim | 1007883 | RA Reading | - | 1390 | - | - | - | 4-Aug-11 |
| 2011 | E 1400 | 535102 | 6312621 | West Rim | 1007883 | RA Reading | - | 1400 | - | - | - | 4-Aug-11 |
| 2011 | E 1401 | 539065 | 6313006 | Beckling | 2087804 | RA Reading | - | 1401 | - | - | - | 6-Aug-11 |
| 2011 | E 1402 | 539579 | 6312934 | Beckling | 2111150 | RA Reading | - | 1402 | - | - | - | 1-Sep-11 |
| 2011 | E 1412 | 535042 | 6312494 | West Rim | 1007883 | RA Reading | - | 1412 | - | - | - | 4-Aug-11 |
| 2011 | E 1450Cps | 535868 | 6313343 | Triple-D | 1007890 | RA Reading | - | 1450 | - | - | - | 21-Aug-11 |
| 2011 | E 1480 | 535828 | 6313516 | Triple-D | 1007890 | RA Reading | - | 1480 | - | - | - | 8-Aug-11 |
| 2011 | E 1503 | 535731 | 6313520 | Triple-D | 1007890 | RA Reading | - | 1503 | - | - | - | 8-Aug-11 |
| 2011 | E 1509 | 534866 | 6312961 | West Rim | 2087797 | RA Reading | - | 1509 | - | - | - | 5-Aug-11 |
| 2011 | E 1543 | 537348 | 6312980 | Miranna | 2087800 | RA Reading | - | 1543 | - | - | - | 7-Aug-11 |
| 2011 | E 1550 | 535106 | 6312602 | West Rim | 1007883 | RA Reading | - | 1550 | - | - | - | 4-Aug-11 |
| 2011 | E 1590 | 535152 | 6312608 | West Rim | 1007883 | RA Reading | - | 1590 | - | - | - | 4-Aug-11 |
| 2011 | E 1600 | 537347 | 6313009 | Miranna | 2087800 | RA Reading | - | 1600 | - | - | - | 7-Aug-11 |
| 2011 | E 1600Cps | 537071 | 6312579 | Miranna | 2087792 | RA Reading | - | 1600 | - | - | - | 12-Aug-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|------------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|----------------|----------------------|-----------|
| 2011 | E 1601 | 535779 | 6313385 | Triple-D | 1007890 | RA Reading | - | 1601 | - | - | - | 8-Aug-11 |
| 2011 | E 1610 | 539069 | 6313035 | Beckling | 2087804 | RA Reading | - | 1610 | - | - | - | 6-Aug-11 |
| 2011 | E 1615 | 534864 | 6313039 | West Rim | 2087797 | RA Reading | - | 1615 | - | - | - | 5-Aug-11 |
| 2011 | E 1630 | 537338 | 6312992 | Miranna | 2087800 | RA Reading | - | 1630 | - | - | - | 7-Aug-11 |
| 2011 | E 1640 | 535848 | 6313398 | Triple-D | 1007890 | RA Reading | - | 1640 | - | - | - | 8-Aug-11 |
| 2011 | E 1650 | 535816 | 6313537 | Triple-D | 1007890 | RA Reading | - | 1650 | - | - | - | 8-Aug-11 |
| 2011 | E 1660 | 535146 | 6312637 | West Rim | 1007883 | RA Reading | - | 1660 | - | - | - | 4-Aug-11 |
| 2011 | E 1700 | 535100 | 6312608 | West Rim | 1007883 | RA Reading | - | 1700 | - | - | - | 4-Aug-11 |
| 2011 | E 1700Cps | 535597 | 6313927 | North Glim | 2087807 | RA Reading | - | 1700 | - | - | - | 15-Aug-11 |
| 2011 | E 1710 | 535074 | 6312538 | West Rim | 1007883 | RA Reading | - | 1710 | - | - | - | 4-Aug-11 |
| 2011 | E 1750 | 539162 | 6312916 | Beckling | 2087796 | RA Reading | - | 1750 | - | - | - | 11-Aug-11 |
| 2011 | E 1758 | 535037 | 6312564 | West Rim | 1007883 | RA Reading | - | 1758 | - | - | - | 4-Aug-11 |
| 2011 | E 1771 | 535839 | 6313398 | Triple-D | 1007890 | RA Reading | - | 1771 | - | - | - | 8-Aug-11 |
| 2011 | E 1794 | 537348 | 6312975 | Miranna | 2087800 | RA Reading | - | 1794 | - | - | - | 7-Aug-11 |
| 2011 | E 1800 | 539204 | 6310240 | Southeast | 2087776 | RA Reading | boulder | 1800 | - | dk br-blk wthd | rnd bldr | 17-Aug-11 |
| 2011 | E 1800 | 535111 | 6312599 | West Rim | 1007883 | RA Reading | - | 1800 | - | - | - | 4-Aug-11 |
| 2011 | E 1820 | 535113 | 6312599 | West Rim | 1007883 | RA Reading | - | 1820 | - | - | - | 4-Aug-11 |
| 2011 | E 1828 | 535083 | 6312464 | West Rim | 1007883 | RA Reading | - | 1828 | - | - | - | 4-Aug-11 |
| 2011 | E 1840 | 535121 | 6312569 | West Rim | 1007883 | RA Reading | - | 1840 | - | - | - | 4-Aug-11 |
| 2011 | E 1850cps | 537108 | 6312619 | Miranna | 2087792 | RA Reading | - | 1850 | - | - | - | 12-Aug-11 |
| 2011 | E 1874 | 539156 | 6312915 | Beckling | 2087796 | RA Reading | - | 1874 | - | - | - | 11-Aug-11 |
| 2011 | E 1880 | 535030 | 6312512 | West Rim | 1007883 | RA Reading | - | 1880 | - | - | - | 4-Aug-11 |
| 2011 | E 1887 | 535859 | 6313507 | Triple-D | 1007890 | RA Reading | - | 1887 | - | - | - | 8-Aug-11 |
| 2011 | E 1900Cps | 535155 | 6314126 | North Glim | 2111154 | RA Reading | - | 1900 | - | - | - | 15-Aug-11 |
| 2011 | E 1950 | 535117 | 6312603 | West Rim | 1007883 | RA Reading | - | 1950 | - | - | - | 4-Aug-11 |
| 2011 | E 1978 | 535852 | 6313510 | Triple-D | 1007890 | RA Reading | - | 1978 | - | - | - | 8-Aug-11 |
| 2011 | E 2000cps | 537533 | 6312406 | Miranna | 2087793 | RA Reading | - | 2000 | - | - | - | 12-Aug-11 |
| 2011 | E 2001 | 539110 | 6312994 | Beckling | 2087804 | RA Reading | - | 2001 | - | - | - | 6-Aug-11 |
| 2011 | E 2023 | 535819 | 6313398 | Triple-D | 1007890 | RA Reading | - | 2023 | - | - | - | 8-Aug-11 |
| 2011 | E 2040Cps | 535136 | 6314179 | North Glim | 2111154 | RA Reading | - | 2040 | - | - | - | 15-Aug-11 |
| 2011 | E 2045 | 535598 | 6313920 | North Glim | 2087807 | RA Reading | - | 2045 | - | - | - | 15-Aug-11 |
| 2011 | E 2090Cps | 535616 | 6313980 | North Glim | 2087807 | RA Reading | - | 2090 | - | - | - | 15-Aug-11 |
| 2011 | E 2099 | 535822 | 6313518 | Triple-D | 1007890 | RA Reading | - | 2099 | - | - | - | 8-Aug-11 |
| 2011 | E 2100 | 535108 | 6312601 | West Rim | 1007883 | RA Reading | - | 2100 | - | - | - | 4-Aug-11 |
| 2011 | E 2200 | 535098 | 6312632 | West Rim | 1007883 | RA Reading | - | 2200 | - | - | - | 4-Aug-11 |
| 2011 | E 2212 | 535756 | 6313575 | Triple-D | 1007890 | RA Reading | - | 2212 | - | - | - | 8-Aug-11 |
| 2011 | E 2232 | 535785 | 6313621 | Triple-D | 1007890 | RA Reading | - | 2232 | - | - | - | 8-Aug-11 |
| 2011 | E 2300Cps | 535777 | 6313664 | Triple-D | 1007890 | RA Reading | - | 2300 | - | - | - | 15-Aug-11 |
| 2011 | E 2332 | 535749 | 6313589 | Triple-D | 1007890 | RA Reading | - | 2332 | - | - | - | 8-Aug-11 |
| 2011 | E 2470 | 534913 | 6312901 | West Rim | 2087797 | RA Reading | - | 2470 | - | - | - | 5-Aug-11 |
| 2011 | E 2480 | 535122 | 6312577 | West Rim | 1007883 | RA Reading | - | 2480 | - | - | - | 4-Aug-11 |
| 2011 | E 2555 | 535816 | 6313531 | Triple-D | 1007890 | RA Reading | - | 2555 | - | - | - | 8-Aug-11 |
| 2011 | E 2587 | 535723 | 6313509 | Triple-D | 1007890 | RA Reading | - | 2587 | - | - | - | 8-Aug-11 |
| 2011 | E 2690 | 535125 | 6312580 | West Rim | 1007883 | RA Reading | - | 2690 | - | - | - | 4-Aug-11 |
| 2011 | E 2900Cps | 535683 | 6313777 | North Glim | 1007890 | RA Reading | - | 2900 | - | - | - | 15-Aug-11 |
| 2011 | E 2960 RND | 535811 | 6313546 | Triple-D | 1007890 | Rocks | boulder | 2960 | - | - | - | 8-Aug-11 |
| 2011 | E 2988 | 535817 | 6313534 | Triple-D | 1007890 | RA Reading | - | 2988 | - | - | - | 8-Aug-11 |
| 2011 | E 3000Cps | 535850 | 6313512 | Triple-D | 1007890 | RA Reading | boulder | 3000 | Carb | - | A zone bldr | 21-Aug-11 |
| 2011 | E 3025 | 537319 | 6313033 | Miranna | 2087800 | RA Reading | - | 3025 | - | - | - | 7-Aug-11 |
| 2011 | E 3340 | 537335 | 6312998 | Miranna | 2087800 | RA Reading | - | 3340 | - | - | - | 7-Aug-11 |
| 2011 | E 3386 | 535850 | 6313410 | Triple-D | 1007890 | RA Reading | - | 3386 | - | - | - | 8-Aug-11 |
| 2011 | E 3902 | 537324 | 6313014 | Miranna | 2087800 | RA Reading | - | 3902 | - | - | - | 7-Aug-11 |
| 2011 | E 3950 | 539155 | 6312917 | Beckling | 2087796 | RA Reading | - | 3950 | - | - | - | 11-Aug-11 |
| 2011 | E 4000 | 535141 | 6312663 | West Rim | 1007883 | RA Reading | - | 4000 | - | - | - | 5-Aug-11 |
| 2011 | E 4300 | 535138 | 6312657 | West Rim | 1007883 | RA Reading | - | 4300 | - | - | - | 4-Aug-11 |
| 2011 | E 900 | 538244 | 6312241 | Miranna | 2087794 | RA Reading | - | 1600 | - | - | - | 10-Aug-11 |
| 2011 | E1017 | 535618 | 6314095 | North Glim | 2087807 | RA Reading | - | 1017 | - | - | - | 9-Aug-11 |
| 2011 | E1046 | 535809 | 6314218 | North Glim | 2087807 | RA Reading | - | 1046 | - | - | - | 9-Aug-11 |
| 2011 | E1056 | 535578 | 6314073 | North Glim | 2087807 | RA Reading | - | 1056 | - | - | - | 9-Aug-11 |
| 2011 | E1075 | 535584 | 6314077 | North Glim | 2087807 | RA Reading | - | 1075 | - | - | - | 9-Aug-11 |
| 2011 | E-1100 | 539179 | 6310234 | Southeast | 2087776 | RA Reading | - | 1100 | - | - | Low-lying bldr field | 17-Aug-11 |
| 2011 | E1104 | 539086 | 6312968 | Beckling | 2087804 | RA Reading | - | 1104 | - | - | - | 11-Aug-11 |
| 2011 | E1109 | 535844 | 6314267 | North Glim | 2087807 | RA Reading | - | 1109 | - | - | - | 9-Aug-11 |
| 2011 | E1109 | 535610 | 6314094 | North Glim | 2087807 | RA Reading | - | 1109 | - | - | - | 9-Aug-11 |
| 2011 | E1111 | 539070 | 6313013 | Beckling | 2087804 | RA Reading | - | 1111 | - | - | - | 11-Aug-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|-----------------|----------------|-----------------|-------------------|---------|------------------|------------|---------|-----------------|---|---|-----------|
| 2011 | E1168 | 535836 | 6314245 | North Glim | 2087807 | RA Reading | - | 1168 | - | - | - | 9-Aug-11 |
| 2011 | E1262 | 535565 | 6314049 | North Glim | 2087807 | RA Reading | - | 1262 | - | - | - | 9-Aug-11 |
| 2011 | E-1273 | 537188 | 6313921 | Miranna | 2087810 | RA Reading | - | 1273 | - | - | RA moss-covered bldr | 12-Aug-11 |
| 2011 | E1294 | 535817 | 6313627 | Triple-D | 1007890 | RA Reading | - | 1294 | - | - | - | 9-Aug-11 |
| 2011 | E1331 | 535832 | 6314250 | North Glim | 2087807 | RA Reading | - | 1331 | - | - | - | 9-Aug-11 |
| 2011 | E1336 | 535831 | 6313397 | Triple-D | 1007890 | RA Reading | - | 1336 | - | - | - | 8-Aug-11 |
| 2011 | E1369 | 535812 | 6313622 | Triple-D | 1007890 | RA Reading | - | 1369 | - | - | - | 9-Aug-11 |
| 2011 | E1378 | 535578 | 6314074 | North Glim | 2087807 | RA Reading | - | 1378 | - | - | - | 9-Aug-11 |
| 2011 | E1403 | 535586 | 6314005 | North Glim | 2087807 | RA Reading | - | 1403 | - | - | - | 9-Aug-11 |
| 2011 | E1406 | 535579 | 6314076 | North Glim | 2087807 | RA Reading | - | 1406 | - | - | - | 9-Aug-11 |
| 2011 | E1456 | 535558 | 6314053 | North Glim | 2087807 | RA Reading | - | 1456 | - | - | - | 9-Aug-11 |
| 2011 | E1458 | 539069 | 6312987 | Beckling | 2087804 | RA Reading | - | 1458 | - | - | - | 11-Aug-11 |
| 2011 | E1500 | 534963 | 6312981 | West Rim | 2087797 | RA Reading | - | 1500 | - | - | - | 5-Aug-11 |
| 2011 | E1566 | 535567 | 6314050 | North Glim | 2087807 | RA Reading | - | 1566 | - | - | - | 9-Aug-11 |
| 2011 | E1589 | 535576 | 6314033 | North Glim | 2087807 | RA Reading | - | 1589 | - | - | - | 9-Aug-11 |
| 2011 | E1623 | 539087 | 6312967 | Beckling | 2087804 | RA Reading | - | 1623 | - | - | - | 11-Aug-11 |
| 2011 | E1704 | 535577 | 6314023 | North Glim | 2087807 | RA Reading | - | 1704 | - | - | - | 9-Aug-11 |
| 2011 | E1740 | 539167 | 6312909 | Beckling | 2087796 | RA Reading | - | 1740 | - | - | - | 11-Aug-11 |
| 2011 | E1760 | 539161 | 6312920 | Beckling | 2087796 | RA Reading | - | 1760 | - | - | - | 11-Aug-11 |
| 2011 | E1771 | 539168 | 6312910 | Beckling | 2087796 | RA Reading | - | 1771 | - | - | - | 11-Aug-11 |
| 2011 | E1800 | 539090 | 6312988 | Beckling | 2087804 | RA Reading | - | 1800 | - | - | - | 11-Aug-11 |
| 2011 | E1989 | 535826 | 6313631 | Triple-D | 1007890 | RA Reading | - | 1989 | - | - | - | 9-Aug-11 |
| 2011 | E2041 | 539066 | 6312997 | Beckling | 2087804 | RA Reading | - | 2041 | - | - | - | 11-Aug-11 |
| 2011 | E2090 | 539149 | 6312910 | Beckling | 2087796 | RA Reading | - | 2090 | - | - | - | 11-Aug-11 |
| 2011 | E2133 | 535783 | 6313386 | Triple-D | 1007890 | RA Reading | - | 2133 | - | - | - | 8-Aug-11 |
| 2011 | E2177 RND | 535832 | 6314238 | North Glim | 2087807 | Rocks | boulder | 2177 | - | - | - | 9-Aug-11 |
| 2011 | E2192 | 535794 | 6313622 | Triple-D | 1007890 | RA Reading | - | 2192 | - | - | - | 9-Aug-11 |
| 2011 | E-2260 | 537173 | 6313822 | Miranna | 2087800 | RA Reading | - | 2260 | - | - | - | 12-Aug-11 |
| 2011 | E2781 | 539097 | 6313008 | Beckling | 2087804 | RA Reading | - | 2781 | - | - | - | 11-Aug-11 |
| 2011 | E2800 | 539079 | 6312996 | Beckling | 2087804 | RA Reading | - | 2800 | - | - | - | 11-Aug-11 |
| 2011 | E3157 | 535756 | 6313582 | Triple-D | 1007890 | RA Reading | - | 3157 | - | - | - | 8-Aug-11 |
| 2011 | E3600 | 539096 | 6312948 | Beckling | 2087804 | RA Reading | - | 3600 | - | - | - | 11-Aug-11 |
| 2011 | E-4000 RDED | 536853 | 6313877 | Miranna | 2087809 | RA Reading | - | 4000 | - | - | rnd bldr, K = 1.4 %, U = 0.0 ppm, Ty = 610 ppm | 12-Aug-11 |
| 2011 | E-720 RDED | 536544 | 6314264 | Miranna | 2087809 | RA Reading | - | 720 | - | - | rnd bldr | 12-Aug-11 |
| 2011 | E950 | 536032 | 6313691 | Miranna | 2087798 | RA Reading | - | 950 | - | - | - | 9-Aug-11 |
| 2011 | E980 | 535970 | 6313667 | Triple-D | 1007890 | RA Reading | - | 980 | - | - | - | 9-Aug-11 |
| 2011 | Edge Of cps | 535196 | 6312539 | West Rim | 1007883 | RA Reading | Boulder | 315 | - | - | End of bldr field, RA drops from 315 to 150 cps | 21-Aug-11 |
| 2011 | Edge Of Outcrop | 539145 | 6312900 | Beckling | 2087796 | Rocks | Outcrop | -1 | - | - | - | 11-Aug-11 |
| 2011 | End oc | 539936 | 6311348 | Enterprise | 2087788 | Rocks | Outcrop | -1 | - | - | - | 4-Jul-11 |
| 2011 | Endoc | 536433 | 6313539 | Miranna | 2087798 | Rocks | Outcrop | -1 | - | - | Previous OC (Ocak11-006) ended ~ 50 m prior to this wpt | 12-Aug-11 |
| 2011 | ENDOCMC11-009 | 539417 | 6312801 | Beckling | 2087796 | Rocks | Outcrop | -1 | - | - | - | 7-Sep-11 |
| 2011 | ENDOCMC11-019 | 535904 | 6310266 | West Mag High | 2087771 | Rocks | Outcrop | -1 | - | - | - | 7-Sep-11 |
| 2011 | GLACIAL STRIAE | 535776 | 6310530 | West Mag High | 2087771 | Rocks | Outcrop | -1 | - | - | - | 7-Sep-11 |
| 2011 | High Cps 700 | 539174 | 6312891 | Beckling | 2087796 | RA Reading | - | 700 | - | - | - | 5-Aug-11 |
| 2011 | High Cps 900 | 539530 | 6312844 | Beckling | 2087796 | RA Reading | - | 900 | - | - | - | 5-Aug-11 |
| 2011 | High Cps 950 | 539229 | 6312832 | Beckling | 2087796 | RA Reading | - | 950 | - | - | - | 5-Aug-11 |
| 2011 | Highcps800 | 538211 | 6313500 | North of Beckling | 2087802 | RA Reading | - | 800 | - | - | - | 8-Aug-11 |
| 2011 | Hs Be 1 | 539143 | 6312894 | Beckling | 2087796 | Rocks | Outcrop | 3000 | dol-Carb | lt ol-gy, mass, fl (itsl), qtz (vnlets, mass), unk mins (br, itsl) | Hand sample taken | 11-Aug-11 |
| 2011 | Hs Be 2 | 539101 | 6312948 | Beckling | 2087804 | RA Reading | Outcrop | 1300 | Carb / WR | Carb - f.g., mass, xtn, min (poor) / WR (25%) - bio (f.g.) | Near sample 92486 | 11-Aug-11 |
| 2011 | Hs Be 3 (92488) | 539090 | 6312937 | Beckling | 2087804 | RA Reading | Outcrop | 3400 | - | - | Elliptical OC trending 310 deg | 11-Aug-11 |
| 2011 | Hs Be 4 (92489) | 539092 | 6312936 | Beckling | 2087804 | Rocks | Boulder | -1 | - | - | Till beneath bldrs | 11-Aug-11 |
| 2011 | Hs Be 6 | 539152 | 6312889 | Beckling | 2087796 | RA Reading | RA Reading | 5800 | - | fl (abnt) | Hand sample taken, SE end of Beckling | 11-Aug-11 |
| 2011 | Hs Be 8 | 539134 | 6312899 | Beckling | 2087796 | RA Reading | - | 4300 | - | - | Hand sample taken, middle E side of Beckling | 11-Aug-11 |
| 2011 | Hsbe 5 | 539143 | 6312882 | Beckling | 2087796 | RA Reading | RA Reading | 7300 | - | - | Hand sample taken, SW end of Beckling | 6-Aug-11 |
| 2011 | Hsbe 7 | 539131 | 6312895 | Beckling | 2087796 | RA Reading | - | 6350 | - | - | Hand sample taken,W of Hs Be 8 | 11-Aug-11 |
| 2011 | Hs-NN-011 | 539293 | 6310864 | Southeast | 2087776 | Rocks | Boulder | 150 | g-Scht | m.g.-c.g., chl, msc?, dol (< 30 % sub-rnd elongate clsts) | - | 24-Aug-11 |
| 2011 | Hsnn-012 | 539813 | 6310485 | Enterprise | 2087777 | Rocks | Boulder | 180 | Glim | br crust wthd, well fol, bio (abnt), dol-Carb (bnds, common), py (trace), unkn min (20 %, prtc, r-br, euh, 3 mm across, good cleavage), mag (minor) | ang bldr, 4 x 2.5 x 1.5 m | 24-Aug-11 |
| 2011 | HSNN11-001 | 538169 | 6312195 | Miranna | 2087794 | RA Reading | - | 800 | dol-Carb / Glim | dol-Carb - f.g.-m.g., tan wthd, mafic stringers (abnt), visible flow bndg and bio bndg / Glim - bio (abnt), qtz (clsts/vnlets, abnt), sul (trace, diss) | Side of ridge, lrg bldrs at bottom of slope | 10-Aug-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|---------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------|--|--|-----------|
| 2011 | HSNN11-003 | 538220 | 6312482 | Miranna | 2087794 | Rocks | Outcrop? | 800 | dol-Carb | v.f.g., y-gy, og-br wthd, dol (clsts, ltr colour, euh-anh, mafics (trace, stringers), bio (diss, specks), qtz (trace, vnlets) | Huge dol-Carb bldr?, surrd by numerous small bldrs of Glim | 10-Aug-11 |
| 2011 | JS-05 | 541621 | 6312032 | MC Exposure | 2142208 | RA Reading | - | 500 | Carb | bio | - | 1-Jul-11 |
| 2011 | JS-06 | 541619 | 6311574 | MC Exposure | 2111149 | Rocks | Boulder | 250 | Amt | amph (60 - 70 % randomly oriented xtls), gdmass (lt gy), qtz (c.g., S side of bldr) | bldr is 4 - 5 m high x 5 m wide | 1-Jul-11 |
| 2011 | JS-08 | 541569 | 6311394 | MC Exposure | 2111148 | Rocks | Outcrop? | -1 | meta-Sed | well fol, bio-qtz-fsp, psammopelite? | Poor exposure near top of ridge | 1-Jul-11 |
| 2011 | JS1 S | 541312 | 6311879 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | - | - | S edge of OCJS-01? | 1-Jul-11 |
| 2011 | js-10 | 540813 | 6312924 | North of Beckling | 2142206 | Rocks | Outcrop | 70 | dolostone | well lnd, bio-qtz | 3 x 3 m OC exposure on side of hill, representative sample taken | - |
| 2011 | JS2 N | 541261 | 6311964 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | - | - | N edge of OCJS-02? | 10-Jul-11 |
| 2011 | MIMVOC02 | 535117 | 6311898 | West Mag High | 2087781 | Rocks | Outcrop | -1 | - | - | - | 7-Sep-11 |
| 2011 | Mmoc | 539775 | 6311426 | Enterprise | 2087788 | Rocks | Outcrop | -1 | - | - | - | 10-Jul-11 |
| 2011 | Mmoc2 | 539670 | 6311299 | Enterprise | 2087788 | Rocks | Outcrop | -1 | - | - | - | 10-Jul-11 |
| 2011 | Mnboulder | 541383 | 6310249 | Enterprise | 2087780 | Rocks | Boulder | 1600 | - | - | - | 28-Jul-11 |
| 2011 | Mnoc2? | 541569 | 6310102 | Enterprise | 2111143 | Rocks | Outcrop? | 100 | - | - | - | 1-Aug-11 |
| 2011 | mnoc1 | 541381 | 6310478 | Enterprise | 2087780 | Rocks | Boulder | 300 | - | - | - | 28-Jul-11 |
| 2011 | Mnoc3 | 541918 | 6310110 | Enterprise | 2087768 | Rocks | Outcrop | 75 | - | - | - | 1-Aug-11 |
| 2011 | NN1 | 537567 | 6312726 | Miranna | 2087793 | Rocks | Boulder | 150 | - | - | Till area, several well-rnd exotic bldrs, none with high RA | 7-Aug-11 |
| 2011 | Nn11-005 | 539964 | 6309651 | Southeast | 2087765 | Rocks | Boulder | 320 | - | 3 bldrs: 1 Scht - v.f.g., dk gy-blk, greasy, well fol, dol-Carb vnlets (few) / 2 meta-Sed - v.f.g., mass, dol-Carb vns (few, lrg), lrg clsts (few), mafic-rich | 3 v. lrg bldrs (WR x 2, Scht x 1), ang. 1.5 to 3 m across | 17-Aug-11 |
| 2011 | Nn11-007 | 539710 | 6309870 | Southeast | 2087765 | Rocks | Boulder | 300 | Glim | cc (itsl), dol-Carb vnlets (~ 10%) | lrg Glim bldrs, 10 x 2 m | 17-Aug-11 |
| 2011 | Nn11-008 | 538904 | 6310194 | Southeast | 2087775 | Rocks | Boulder | -1 | Glim / dol-Carb | Glim (85%) - v.f.g., bio (rare, v.c.g.), sul (trace) / dol-Carb (15%) - f.g., gy, xtl, clsts (< 5 cm), vns (< 15 cm thick), sul (trace) | 2 lrg wthd bldrs, 3 x 1 x 1.5 m | 17-Aug-11 |
| 2011 | NN2 | 537661 | 6312496 | Miranna | 2087793 | Rocks | Boulder | 700 | - | - | Till area, well-rnd, exotic bldrs (Gn, conglomerate, Gr, no Carb) | 7-Aug-11 |
| 2011 | NN3 | 535746 | 6313533 | Triple-D | 1007890 | RA Reading | - | 300 | - | - | Clear boundary between area of high (700 cps) to low (300 cps) BG, high BG continues to SE | 8-Aug-11 |
| 2011 | NN4 | 535882 | 6313399 | Triple-D | 1007890 | RA Reading | - | 700 | - | - | - | 8-Aug-11 |
| 2011 | no Wpt! | 541087 | 6310747 | Enterprise | 2087780 | Rocks | Boulder | 150 | - | - | - | 5-Aug-11 |
| 2011 | no Wpt! | 539147 | 6312887 | Beckling | 2087796 | Rocks | Outcrop | 13000 | - | - | - | 29-Aug-11 |
| 2011 | no Wpt! | 535070 | 6312563 | West Rim | 1007883 | Rocks | Boulder | 100 | - | - | - | 29-Aug-11 |
| 2011 | no Wpt! | 535084 | 6312552 | West Rim | 1007883 | Rocks | Boulder | -1 | - | - | - | 29-Aug-11 |
| 2011 | no Wpt! | 535117 | 6312644 | West Rim | 1007883 | Rocks | Boulder | -1 | - | - | - | 30-Aug-11 |
| 2011 | no Wpt! | 535132 | 6312458 | West Rim | 1007883 | Rocks | Boulder | -1 | - | - | - | 30-Aug-11 |
| 2011 | no Wpt! | 535135 | 6312595 | West Rim | 1007883 | Rocks | Boulder | -1 | - | - | - | 29-Aug-11 |
| 2011 | no Wpt! | 535100 | 6312607 | West Rim | 1007883 | Rocks | Boulder | 1300 | - | - | - | 29-Aug-11 |
| 2011 | 92951 | 538707 | 6311935 | Miranna | 2087786 | Rocks | Boulder | 400 | dol-Carb | - | bldr sample 92951 found during soil sampling, described by MC Aug 29/11 | 29-Aug-11 |
| 2011 | 92952 | 537809 | 6311425 | Miranna | 1007659 | Rocks | Boulder | 600 | dol-Carb | - | bldr sample 92952 found during soil sampling, described by MC Aug 29/12 | 29-Aug-11 |
| 2011 | OC | 535214 | 6311527 | West Mag High | 2087781 | Rocks | Outcrop | -1 | - | - | - | 5-Sep-11 |
| 2011 | OC | 537770 | 6312535 | Miranna | 2087793 | Rocks | Outcrop | -1 | - | - | - | 12-Aug-11 |
| 2011 | Oc A | 539127 | 6312889 | Beckling | 2087796 | Rocks | Outcrop | -1 | - | - | - | 6-Aug-11 |
| 2011 | Oc Co20110806 | 539528 | 6313343 | North of Beckling | 2111152 | Rocks | Outcrop | -1 | - | - | - | 6-Aug-11 |
| 2011 | Oc? | 539410 | 6313493 | North of Beckling | 2087804 | Rocks | Outcrop? | -1 | - | - | - | 7-Aug-11 |
| 2011 | Oc? | 537331 | 6312069 | Miranna | 2087792 | Rocks | Outcrop? | -1 | - | - | - | 26-Aug-11 |
| 2011 | Oc?? | 538506 | 6312044 | Miranna | 2087794 | Rocks | Outcrop? | -1 | - | - | Located walking a soil line, outline very rough | 28-Aug-11 |
| 2011 | Oc??? | 538768 | 6312200 | Miranna | 2087795 | Rocks | Outcrop? | -1 | mica Scht | amph? (boudinage), other lithos as well | Frost heave | 28-Aug-11 |
| 2011 | Oc?2 | 540052 | 6313866 | North of Beckling | 2111153 | Rocks | Outcrop? | -1 | Mbl | c.g., dirty, patchy, fol, mafics (minor), str HCl rxn | Collected on soil line, outline rough | 7-Aug-11 |
| 2011 | Oc01 | 538876 | 6312266 | Enterprise | 2087795 | Rocks | Outcrop | -1 | - | - | Located walking a soil line, outline v. rough | 28-Aug-11 |
| 2011 | Oc02 | 539210 | 6312448 | Beckling | 2087796 | Rocks | Outcrop | -1 | Mbl | c.g., dirty, patchy, fol, mafics (minor), str HCl rxn | Collected on soil line, outline rough | 28-Aug-11 |
| 2011 | OC1 | 535136 | 6311710 | West Mag High | 2087781 | Rocks | Outcrop | -1 | - | - | - | 5-Sep-11 |
| 2011 | OC1 | 538856 | 6313022 | Beckling | 2087803 | Rocks | Outcrop | -1 | - | - | - | 11-Aug-11 |
| 2011 | OC1 | 540307 | 6311705 | MC Exposure | 2111146 | Rocks | Outcrop | -1 | - | - | - | 12-Jul-11 |
| 2011 | Oc1BP091211 | 534734 | 6312637 | West Mag High | 2087789 | Rocks | Outcrop | 135 | Glim? | bio (abnt, 50 %), v. platy, Scht? | 2 m high x 8 m across | 12-Sep-11 |
| 2011 | OC11MC-002 | 535243 | 6312263 | West Rim | 1007883 | Rocks | Outcrop | -1 | dol-Carb | f.g., lt ol gy to med gy, dk brown wthd, mass, py (minor), fl (trace), pcl?, Glim clsts (xenoliths?) and stringers | - | 3-Aug-11 |
| 2011 | OC11-NN002 | 538234 | 6312355 | Miranna | 2087794 | Rocks | Outcrop | 175 | Glim | f.g., dk gy to blk, fol (mod-str), bnd, mafics (abnt), dol-Carb (itsl, abnt, vns < 2 cm thick, clsts (ang, xtls, mm-scale)) | OC similar to 94282, very flat exposed face, 15 m long x 1 m high, frost heave | 10-Aug-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-----------------------|--|--|-----------|
| 2011 | Oc1CO20110807 | 539109 | 6313320 | Beckling | 2087804 | Rocks | Outcrop | -1 | - | - | - | 7-Aug-11 |
| 2011 | Oc1CO20110808 | 538122 | 6312993 | Miranna | 2087802 | Rocks | Outcrop | -1 | - | - | - | 8-Aug-11 |
| 2011 | OC2 | 535199 | 6311745 | West Mag High | 2087781 | Rocks | Outcrop | -1 | - | - | - | 5-Sep-11 |
| 2011 | Oc2 CO20110806 | 540155 | 6313694 | North of Beckling | 2111153 | Rocks | Outcrop | -1 | - | - | - | 6-Aug-11 |
| 2011 | OC2BP090711 | 535601 | 6312443 | Northwest | 1007661 | Rocks | Outcrop? | 550 | - | lt br-gy wthd, mica (f.g., blk, spots throughout) | Well vegetated, low lying area | 7-Sep-11 |
| 2011 | Oc2CO20110809 | 539308 | 6313658 | North of Beckling | 2087804 | Rocks | Outcrop | -1 | - | - | - | 9-Aug-11 |
| 2011 | Oc3 | 540095 | 6313894 | North of Beckling | 2142216 | Rocks | Outcrop | -1 | - | - | - | 7-Aug-11 |
| 2011 | OC3 | 535998 | 6312211 | Ashram | 2087790 | Rocks | Outcrop | -1 | - | - | - | 5-Sep-11 |
| 2011 | OC3BP090711 | 535921 | 6312870 | Northwest | 1007661 | Rocks | Outcrop | 630 | - | dk gy, lt gy wthd, bio (flecks, rare) | Steep, poor exposure | 7-Sep-11 |
| 2011 | OC6BP090811 | 534946 | 6312292 | West Mag High | 2087789 | Rocks | Outcrop | 250 | - | - | Flat, well vegetated | 8-Sep-11 |
| 2011 | OC7BP090811 | 534787 | 6312337 | West Mag High | 2087789 | Rocks | Outcrop | 125 | - | - | Flat, 10 m OC | 8-Sep-11 |
| 2011 | OC8BP091011 | 535502 | 6313307 | PANDS | 1007890 | Rocks | Outcrop | 500 | - | dk gy to blk, og-br wthd, bio (abnt, streaks), cc? (blebs, cr-w, < 7 hardness) | OC 3 m high x > 50 m across, well exposed, 10 m N of wpt rock is lt gy-w, rusty r wthd, less bio, py (specks), fl? (p) | 10-Sep-11 |
| 2011 | Oc92313 | 538870 | 6312980 | Beckling | 2087803 | Rocks | Boulder | 550 | - | - | - | 6-Aug-11 |
| 2011 | Ocad11-001 | 541704 | 6311324 | MC Exposure | 2111149 | Rocks | Outcrop | 4500 | dol-Carb | See samples 92030-32 | 15 m long x 2 m high? OC, blk to bright og-br wthd, str fol, qtz (vns / vnlets, +ive wthrg, xcut, vertical), K = 4 %, U = 7.4 ppm, Th = 729.7 ppm | 4-Jul-11 |
| 2011 | OCAD11-004 | 540301 | 6311752 | MC Exposure | 2111146 | Rocks | Outcrop | 400 | metabasalt | v.f.g., gy-br, og-br wthd, cc (abnt, diss, few clsts and vnlets), bio (abnt, v.f.g., grains < 1 mm, stringers), fl (clst within cc clst) | 1 - 2 mm crust | 4-Jul-11 |
| 2011 | OCAD11-005 | 540372 | 6311723 | MC Exposure | 2111146 | Rocks | Outcrop | 220 | meta-Sed / metabasalt | f.g., gy-br, uniform br-r with dkr patches wthd, wkly fol (but consistent), v.competent, uniform, dol (in mtx), bio (runs along fol and defines it) | fol 291 / 29NE, OC on side of ridge, exposed surf ~ 30 m wide x 1 m high, crust only 1 mm thick, competent | 4-Jul-11 |
| 2011 | OCAD11-006 | 540371 | 6311692 | MC Exposure | 2111146 | Rocks | Outcrop | 200 | meta-Sed | dk blk (fis) to lt cr-og wthd (leucosome sections, competent, 'fluid' look), fis, str planar fol, dol (in mtx), cc (minor, vnlets + patches), bio + msc (abnt, oriented, msc > bio), fsp ± qtz (leucosome-rich sections) | fol along OC 299/22NE, 273/12N (OCRR11-01), 291/09NE (OCRR11-02), exposed OC is ~ 70 m x 2 m | 4-Jul-11 |
| 2011 | OCAD11-007 | 540448 | 6311684 | MC Exposure | 2111146 | Rocks | Outcrop | 200 | meta-Sed | dk blk to br wthd, fis, str planar fol, dol (in mtx), bio + msc (abnt, oriented, msc > bio), fsp ± qtz (leucosome-rich sections) | - | 4-Jul-11 |
| 2011 | OCAD11-008 | 539723 | 6311949 | Enterprise | 2087788 | Rocks | Outcrop | 400 | meta-Sed? | v.f.g. dk gy-b, fis-play, fol roughly in same orientation as lrg ridge (from OCAD11-006) | Almost bypass OC completely, in area of really dense bush and moss-covered completely, OC extends laterally to E and W? (all covered, based on topography) | 4-Jul-11 |
| 2011 | OCAD11-009 | 539771 | 6312013 | Beckling | 2111150 | Rocks | Outcrop | 250 | meta-Sed? | f.g., dk gy, og-blk wthd, cc (rare vnlets + clsts, mm-scale), dol (50%), fsp (30%), bio + msc (each 10-20%), sul (trace, diss), qtz (infills fracs in places), micas (sparse) | OC extends 30 m on top of hill and up to 5 m high, v. competent and blocky, finely bnd (uniform), wk fol, frost heave common (no msmt possible) | 4-Jul-11 |
| 2011 | Ocad11-009 | 535469 | 6313231 | PANDS | 1007889 | Rocks | Outcrop | 800 | dol-Carb | f.g., dk gy, og-blk wthd, cc (rare vnlets + clsts, mm-scale), dol (50%), fsp (30%), bio + msc (each 10-20%), sul (trace, diss), qtz (infills fracs in places), micas (sparse) | OC extends 30 m on top of hill and up to 5 m high, v. competent and blocky, finely bnd (uniform), wk fol, frost heave common (no msmt possible), 400 - 800 cps | 26-Aug-11 |
| 2011 | Ocad11-010 | 540209 | 6312798 | Beckling | 2111151 | Rocks | Outcrop | 160 | meta-Sed? | dk gy wthd, wk fol, gdmass (60 - 70%, f.g., gr-b), chl? (5%, gr, greasy lustre), fsp? (30 - 35%, clsts < few cm, cr-w, opaque, sub-ang to sub-rnd), bio (5%, stringers, slightly p) | Moss-covered OC? near bottom edge of small ridge, 8 m long x 2 m high, relatively flat exposed surf | 7-Jul-11 |
| 2011 | Ocad-11-012? | 536005 | 6312200 | Ashram | 2087790 | Rocks | Outcrop? | 1000 | cc-Carb | v.f.g., br-og wthd, finely bnd fol, cc (bnds, < 1 cm, cr), bio (trace, diss), mag (trace, diss, xtls, euh), sul (diss) | Moss and tree covered OC, 8 m wide x 1.5 m high, near bottom of ridge, abnt frost heave, v. frac, K = 1.7 %, U = 39.5 ppm, Th = 45 ppm, sample 92079 taken here, previous sample 43012, conflicting orientation of "307/72 (RHR, SW, dipping)" | 11-Jul-11 |
| 2011 | Ocad11-013? | 536076 | 6312573 | Northwest | 2087790 | Rocks | Outcrop? | 300 | Glim | dk gy to blk, dk gy wthd, mass, bio (flakes, 2 mm), sul (diss), cc-Carb vns-vnlets (few, < 1 cm), sparkly | E-W trending moss-covered OC, 5 m x 0.75 m, on N-S trending ridge, sample 92080 taken here | 11-Jul-11 |
| 2011 | Ocak11-005 | 536405 | 6313295 | Miranna | 2087798 | Rocks | Outcrop | 300 | Glim / si-Carb | brc?, biotized (heavily), cc-Carb vng (heavy, f.g., vnlets, 25 - 30%) / parts of OC are Sil Carb - v.f.g.-f.g., dk gy, Carb text, bio (> 50%), | Exposed face (2 m x 0.5 m), Glim is verging on brc, cc-Carb is mostly as vnlets, Sil Carb has text of Carb but has lost its fol, both rocks formed from same process | 12-Aug-11 |
| 2011 | Ocak11-006 | 536413 | 6313442 | Miranna | 2087798 | Rocks | Outcrop | 350 | dol-Carb | f.g., w to med gy, xtln, mottled, Glim frags, qtz (vns, minor), mica (f.g., swirls and patche, bio-phl), sul (minor, diss), Glim (30 %, xenoliths, small specks > 20 cm, wkly bnd and calcareous frags, f.g. itsl Carb) | 8m x 3 m on vertical exposed face | 12-Aug-11 |
| 2011 | OCBP11-010 | 540487 | 6312271 | MC Exposure | 2111151 | Rocks | Outcrop | 300 | - | f.g., og-br wthd, mod fol, lt gy-w, gdmass (gy, lenticular w mins (cc?) 3 mm long) | Well vegetated 7 m long OC near river, frac | 7-Jul-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|-----------------------|----------------|-----------------|-------------------|---------|------------------|---------|---------|---------------------|--|--|-----------|
| 2011 | OCP11-12 | 539688 | 6311715 | Enterprise | 2087788 | Rocks | Outcrop | 270 | meta-Sed? | f.g., dk gy wthd, fol, bio (40%), cc-dol | lrg ridge with small exposures, each 4 m long, HS taken | 7-Jul-11 |
| 2011 | OCCO20110809 | 539390 | 6313720 | North of Beckling | 2087804 | Rocks | Outcrop | -1 | - | - | - | 9-Aug-11 |
| 2011 | OCSJ-01 | 541296 | 6311893 | MC Exposure | 2111148 | Rocks | Outcrop | 175 | Phyl | gr-blk, gy-br wthd, mod-well fol, bio, mins (gr), chl, verging on Scht | OC is 3 - 5 m high and extends 25 m S and > 25 m N of wpt, lineation 10 deg trending 309 deg, fol (304/32), cleavage (233/90), 2nd fol (270/22) | 1-Jul-11 |
| 2011 | OCSJ-02 | 541269 | 6311936 | MC Exposure | 2111148 | Rocks | Outcrop | 115 | Phyl | qtz (nodules within Phyl, on top of ridge) | (Near) end of lrg OC from OCSJ-01, OC is 3 - 5 m high, overall the ridge is ~ 100 m long, mostly vegetated on top, | 1-Jul-11 |
| 2011 | annual wpt near OCSJ- | 541261 | 6311963 | MC Exposure | 2111148 | Rocks | Outcrop | -1 | Phyl | - | At northern extremity of ridge OCSJ-02 | 1-Jul-11 |
| 2011 | OCSJ-03 | 541258 | 6312024 | MC Exposure | 2111148 | Rocks | Outcrop | 100 | metabasalt | mod-well fol, g-Scht (facies), bio-alb-chl (lrgly), amph (randomly orientated blk needles), qtz (blebs, < 0.5 m long x 10 cm wide) | OC on the back side of ridge, 3 m tall x 10 m long, lots of bldrs on top, bldrs are same lithology | 1-Jul-11 |
| 2011 | OCSJ-04 | 541139 | 6312018 | MC Exposure | 2111148 | Rocks | Outcrop | 180 | meta-Sed | mod-well fol, bio (lrgly, f.g.), qtz (some, small g.) | OC close to river of front side of ridge, could not make structural msmts as appears to be part of a shifted block from OC, poor exposure as it is heavily vegetated | 1-Jul-11 |
| 2011 | OCSJ-07 | 541639 | 6311558 | MC Exposure | 2111149 | Rocks | Outcrop | -1 | Amt | ltr gy (gdmass), amph? (randomly orientated, 60 - 70%) | OC on side of hill with several 2 m ² exposures, no structural msmts possible as OC is frac and heaved, definite frac set (not measured?) | 1-Jul-11 |
| 2011 | Ocsj-09 | 539999 | 6312684 | Beckling | 2111150 | Rocks | Outcrop | 220 | meta-Sed? | f.g., og-br wthd, fl | Representative sample taken | 2-Jul-11 |
| 2011 | Ocsj-11 | 540567 | 6312782 | Beckling | 2142206 | Rocks | Outcrop | -1 | Scht | mod fol, bio (mostly, abnt, f.g.), cc (pockets, some, small, 1 cm lrg) | OC was found on the edge of hill, 1 m ² exposure, no msmts possible as may be part of shifted block from OC, found while soil sampling | 15-Aug-11 |
| 2011 | Ocsj11-014 | 540006 | 6312688 | Beckling | 2111150 | Rocks | Outcrop | 225 | meta-Sed? | f.g., lt gy-b, og-br wthd, mass, mod fol, dol, bio (f.g.), qtz (f.g.), qtz vns (few cms < 15 - 20 cm wide), Mbl or Skarn | Revisited OCSJ-09, NOT Carb but meta-Sed?, OC face is 3 m high flat plane, K = 4.7%, U = 0.7 ppm, K = 8.7 ppm, OC extends a long way SE and NW from wpt | 6-Jul-11 |
| 2011 | Ocsj11-015 | 540242 | 6312433 | Beckling | 2111151 | Rocks | Outcrop | 800 | bio Scht | blk, dk gy wthd, str fol, bio (f.g., ~ 50 - 60%), dol-Carb (abnt, < 10 cm clsts, w-gy, ~ 40 - 50%, sometimes elongate along fol), shear zone? Glim? | Edge of carbonatite, the whole ridge along the lake is the same type | 6-Jul-11 |
| 2011 | Ocsj11-019 | 534961 | 6313817 | North Glim | 2087797 | Rocks | Outcrop | 220 | - | mag (euh, xtls), bio | rnd, no sample possible, ~ 10 cm dirt and moss on the ridge | 15-Aug-11 |
| 2011 | Ocsj11-021 | 534985 | 6313645 | West Rim | 1007889 | Rocks | Outcrop | 200 | - | bio (mostly, f.g., layers? and patches of dol-Carb?), mag (abnt, 1 mm, euh, xtls) | OC is ~ 5 m x 4 m | 15-Aug-11 |
| 2011 | Ocsj11-022 | 534986 | 6313584 | West Rim | 1007889 | Rocks | Outcrop | -1 | - | bio (30%), gdmass (~ 40%, hard, f.g., ukn), mag (~ 10%, euh, xtls, < 1 mm) | OC at ridge, mostly rnd | 15-Aug-11 |
| 2011 | Ocsj11-023 | 534999 | 6313558 | West Rim | 1007889 | Rocks | Outcrop | -1 | meta-Sed? | gy wthd (+ve wthg), fsp? (small, 5 mm, ukn, hard, xtls?), bio (~ 20%, in layers?, itsl), no mag, Syn? | 351/58 (fol), long ridge < 5m high | 15-Aug-11 |
| 2011 | Ocsj-12 | 540181 | 6312715 | Beckling | 2111151 | Rocks | Outcrop | 80 | - | f.g., lt gr-silvery-w, not fol, cc (10%, blebs, common), dol (itsl, mtx, locly, rare), almost entirely chloritized, micas (trace, v.f.g., locly?), fsp? (w, g, and clsts, harder, < 1 cm, rnd, opaque), bio + msc (<10%, diss?, v.f.g., sparkly) | OC on back side of well vegetated hill, found on soil sampling day near pick up time, limited notes taken | 2-Sep-11 |
| 2011 | OCMC-011 | 536299 | 6311625 | East Valcourt | 2087783 | Rocks | Outcrop | 252 | Glim? | calcareous? | highly polished OC with mass appearance, glacial striae - early trending 350, late trending 318, 300/80 (fol), OC is 8 m x 9 m | 7-Sep-11 |
| 2011 | OCMC-012 | 536177 | 6310875 | East Valcourt | 2087772 | Rocks | Outcrop | 180 | dol-Carb | y-gy, psb-rc, mag (f.g., throughout) | mass rnd OC, 9 m x 6 m, no apparent bndg or fol | 7-Sep-11 |
| 2011 | OCMC11-003 | 539169 | 6312873 | Beckling | 2087796 | Rocks | Outcrop | -1 | dol-Carb | - | Proximal to Beckling, no sample collected | 5-Sep-11 |
| 2011 | OCMC11-004 | 539179 | 6312893 | Beckling | 2087796 | Rocks | Outcrop | -1 | dol-Carb / Scht | dol-Carb - boudin, surrnd by / bio Schist - dol-Carb clsts (aligned and elongated, tan) | Lineation 307, no sample collected | 5-Sep-11 |
| 2011 | OCMC11-005 | 539215 | 6312866 | Beckling | 2087796 | Rocks | Outcrop | 1900 | dol-Carb | v.f.g. gr-gy, ~ 2 mm br wthd rind, brc, mtx, fl (perv), dol (clsts, f.g., ang to sub-rnd) | Similar to Ashram A-zone in appearance, XRF in fl patch < 7% TREE | 5-Sep-11 |
| 2011 | OCMC11-006 | 539224 | 6312874 | Beckling | 2087796 | Rocks | Outcrop | 1600 | dol-Carb | - | Sample 92967 taken, apparent trend of fol is 30 deg | 7-Sep-11 |
| 2011 | OCMC11-007 | 539222 | 6312847 | Beckling | 2087796 | Rocks | Outcrop | 2600 | dol-Carb | y-gy, br wthd, fl (streaks), py (f.g., minor) | Sample 92969 taken | 7-Sep-11 |
| 2011 | OCMC11-008 | 539482 | 6312618 | Beckling | 2087796 | Rocks | Outcrop | 1850 | dol-Carb | f.g.-c.g., gr-gy, br-og wthd, fl (minor to mod patchy or streaky), py (trace) | Extensive OC on lrg ridge | 7-Sep-11 |
| 2011 | OCMC11-009 | 539455 | 6312757 | Beckling | 2087796 | Rocks | Outcrop | 900 | dol-Carb | f.g., y-gy, og-br wthd, mass, qtz (vns, frequent), Glim (stringers, few) | - | 7-Sep-11 |
| 2011 | OCMC11-010 | 539327 | 6312811 | Beckling | 2087796 | Rocks | Outcrop | 600 | dol-Carb | v.f.g., gy-br, rusty og-br wthd, Glim (stringers, abnt) | - | 7-Sep-11 |
| 2011 | OCMC11-013 | 536107 | 6310883 | East Valcourt | 2087772 | Rocks | Outcrop | 195 | non-Carb | poor fol, py, bio?, magnetic, carbonated? WR? | Highly polished, poor exposure, collected few small magnetic chips with py and bio?, 4 exposures of same litho within 20 m x 10 m area | 7-Sep-11 |
| 2011 | OCMC11-014 | 536016 | 6310746 | East Valcourt | 2087772 | Rocks | Outcrop | 250 | WR / dol-Carb? dyke | WR - v.f.g., gr-gy, prominent wthg / Carb? - recessive wthg, xcvt, dykes and veinlets (hy-therm) | Samples 107601 and 107602, xcvt relationships suggest multiple generations of Carb intrusion | 7-Sep-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------------------|----------------|-----------------|-------------------|---------|------------------|----------|---------|-------------------|--|--|-----------|
| 2011 | Ocmc11-015 | 535981 | 6310668 | West Mag High | 2087771 | Rocks | Outcrop | 650 | dol-Carb | f.g.-m.g., y-gy, lt br wthd, xtl, fl (trace), py (trace), WR? xenoliths | Sample 107603 collected here, 300 - 650 cps, OC 20 m x 6 m | 7-Sep-11 |
| 2011 | Ocmc11-016 | 535895 | 6310688 | West Mag High | 2087771 | Rocks | Outcrop | 420 | dol-Carb | f.g.-m.g., v.lt gy to y-gy, lt br wthd, py (trace), xtl | OC ~ 30 m x 6 m, sample 107604 | 7-Sep-11 |
| 2011 | Ocmc11-017 | 535773 | 6310694 | West Mag High | 2087771 | Rocks | Outcrop | 150 | dol-Carb? / Glim? | dol-Carb? bnd with Glim? stringers | 322/70 (fol) | 7-Sep-11 |
| 2011 | Ocmc11-018 | 535752 | 6310606 | West Mag High | 2087771 | Rocks | Outcrop | 170 | Phyl | v.f.g., ol gy, gr-maroon gy wthd, bio + mag (pbis) in chl + Qtz? + fsp? (mtx), meta-acidic Volc | OC approx 18 m x 6 m, 312/90 (fol? or cleavage?), sample 107605 | 7-Sep-11 |
| 2011 | Ocmc11-019 | 535769 | 6310561 | West Mag High | 2087771 | Rocks | Outcrop | -1 | Phyl | mag, chl, meta-acidic Volc | Continuation? from Ocmc11-018 | 7-Sep-11 |
| 2011 | ual wpt near Ocmc11 | 535776 | 6310530 | West Mag High | 2087771 | Rocks | Outcrop | -1 | Phyl | - | Continuation of Ocmc11-019, glacial striae trending 351 deg, 313/90 (fol? or cleavage?) | 7-Sep-11 |
| 2011 | Ocmc11-020 | 536054 | 6310036 | West Mag High | 2087759 | Rocks | Outcrop | -1 | meta-Volc? | meta-acidic Volc | 285/80 (fol? or cleavage?) | 7-Sep-11 |
| 2011 | Ocmc11-021 | 536012 | 6309872 | West Valcourt | 2087759 | Rocks | Outcrop | 150 | meta-Sed? | - | 320/80 (transposed bedding), glacial striae trending 344 | 7-Sep-11 |
| 2011 | Ocn11-004 | 538358 | 6312707 | Miranna | 2087794 | Rocks | Outcrop | 250 | Glim | v.f.g. dk gy-blk, well fol, dol-Carb (minor, vnlets) | lrg OC along ridge, same Glim as seen in area, moss-covered | 10-Aug-11 |
| 2011 | Ocn11-006 | 539778 | 6309773 | Southeast | 2087765 | Rocks | Outcrop | 200 | Glim | f.g., dk gy, fol, greasy, dol-Carb (abnt, vns xcut, 5 - 15 cm), Qtz (vns, 5 % clsts), bio? (abnt) | OC 20 m wide x 7 m high | 17-Aug-11 |
| 2011 | Ocn11-009 | 538864 | 6309960 | Southeast | 2087763 | Rocks | Outcrop | 275 | Glim | f.g.-v.c.g., dk blk-br with few og spots wthd, micaceous, phl (abnt, xtls < 6 cm), cc (itsl), dol (trace) | 12 m x 1.5 m | 17-Aug-11 |
| 2011 | Ocn11-011 | 539837 | 6311025 | Enterprise | 2087777 | Rocks | Outcrop | 200 | Glim? | - | Same as sample 92998(?) | 24-Aug-11 |
| 2011 | Ocrr11-01 | 540389 | 6311668 | MC Exposure | 2111146 | Rocks | Outcrop | -1 | meta-Sed | mostly competent, locky str fol (fis, schs), dol (mtx), fsp (alb, bnds or leucosomes, locky), fis layers (increased bio and msc) wrap more competent blocky layers | OC in area is abnt, this OC is 5 m x 4 m | 4-Jul-11 |
| 2011 | Ocrr11-02 | 540345 | 6311704 | MC Exposure | 2111146 | Rocks | Outcrop | -1 | meta-Sed | str fol, dol | End? of fairly continuous OC along ridge (from OCAD11-007 to here) | 4-Jul-11 |
| 2011 | Ocrr11-03 | 540305 | 6311707 | MC Exposure | 2111146 | Rocks | Outcrop | -1 | meta-Sed | dol (in mtx), bio + msc (oriented), fsp (albite?, bnds and leucosomes), commonly strongly fol locky more competent | More competent here, OC > 20 m continues NW from OCSS10-038 and OCRR11-04 | 4-Jul-11 |
| 2011 | Ocrr11-04 | 540272 | 6311726 | MC Exposure | 2111146 | Rocks | Outcrop | -1 | meta-Sed | dol (in mtx), bio + msc (oriented), fsp (albite?, bnds and leucosomes), commonly strongly fol locky more competent | OC tapers off ~ 50 m NW of here | 4-Jul-11 |
| 2011 | Outcrop | 539016 | 6312802 | Beckling | 2087795 | Rocks | Outcrop | 500 | - | lt gy wthd | OC on side of very steep ridge | 24-Aug-11 |
| 2011 | Outcropan | 534921 | 6312709 | West Rim | 2087789 | Rocks | Outcrop | -1 | - | - | - | 4-Aug-11 |
| 2011 | P1160 | 539084 | 6312986 | Beckling | 2087804 | RA Reading | - | 1160 | - | - | - | 11-Aug-11 |
| 2011 | P1224 | 539077 | 6313013 | Beckling | 2087804 | RA Reading | - | 1224 | - | - | - | 11-Aug-11 |
| 2011 | P1250 | 539089 | 6312977 | Beckling | 2087804 | RA Reading | - | 1250 | - | - | - | 11-Aug-11 |
| 2011 | P1450 | 539093 | 6312969 | Beckling | 2087804 | RA Reading | - | 1450 | - | - | - | 11-Aug-11 |
| 2011 | P1511 | 539092 | 6312976 | Beckling | 2087804 | RA Reading | - | 1511 | - | - | - | 11-Aug-11 |
| 2011 | P2452 | 539089 | 6312987 | Beckling | 2087804 | RA Reading | - | 2452 | - | - | - | 11-Aug-11 |
| 2011 | P3250 | 539085 | 6312989 | Beckling | 2087804 | RA Reading | - | 3250 | - | - | - | 11-Aug-11 |
| 2011 | Pond | 535586 | 6312094 | Northwest | 1007661 | Rocks | Outcrop? | 700 | - | - | Pond is nearly dry, underlain by frost heaved Glim with Carb dykes, virtually in-situ, 300 - 700 cps | 3-Aug-11 |
| 2011 | Rx1900cps | 539197 | 6313528 | North of Beckling | 2087804 | RA Reading | - | 1900 | - | - | - | 9-Aug-11 |
| 2011 | Rx900cps | 539254 | 6313484 | North of Beckling | 2087804 | RA Reading | - | 900 | - | - | - | 9-Aug-11 |
| 2011 | SPOTCPS2100 | 539244 | 6312822 | Beckling | 2087796 | RA Reading | - | 2100 | - | - | - | 7-Sep-11 |
| 2011 | Till 1 | 534998 | 6312946 | West Rim | 1007889 | RA Reading | soil | 2600 | - | og-br, abnt sub-ang 20 cm and smaller oblate clsts, sandy silt | - | 5-Aug-11 |
| 2011 | TILL AUG 9 | 535647 | 6314101 | North Glim | 2087807 | RA Reading | - | 1200 | - | r-br, poorly sorted, few rnd clsts < 6 cm, silty sand | Sample 92011 taken | 9-Aug-11 |
| 2011 | Turn 1 | 534652 | 6313228 | West Mag High | 2087797 | RA Reading | - | 120 | - | - | Low RA, RA dropped continuously traversing from E to W | 5-Aug-11 |
| 2011 | Turn 2 | 535063 | 6312894 | West Rim | 1007883 | RA Reading | - | 500 | - | - | Low BG cps 120 between Turn 1 and Turn 2 | 5-Aug-11 |
| 2011 | wpt 8 | 536609 | 6313293 | Miranna | 2087799 | Rocks | - | -1 | meta-Sed | - | - | 12-Aug-11 |
| 2011 | 38712 | 539695 | 6312108 | Beckling | 2111150 | Rocks | Outcrop | 500 | dol-Carb | f.g., y-gy to gy (spots? layers?), bio (abnt, blk, small), sul (trace) | - | 23-Jul-11 |
| 2011 | annual wpt OCIS11-01 | 535658 | 6313861 | North Glim | 2087807 | Rocks | Outcrop | 3000 | Glim / Carb | bio (abnt), dol-Carb, mostly Glim, etc zone | Samples 92498-500 taken here, big ridge with at least two lithos in cct, OC < 5 m high | 15-Aug-11 |
| 2011 | annual wpt OCP511-00 | 535139 | 6313623 | West Rim | 1007889 | Rocks | Outcrop | 6000 | dol-Carb | - | samples 92574, 92575, 92976 taken on this OC | 19-Aug-11 |
| 2011 | 92099+92100 | 542142 | 6311093 | MC Exposure | 2111145 | Rocks | Outcrop | 350 | cc-Carb / Scht | cc-Carb ~ 1 m at bottom / Scht - above, Carb clsts, Qtz, ctc between cc-Carb and Scht | Ridge, OC is 2.5 m high | 24-Jul-11 |
| 2011 | 100701A | 535759 | 6313625 | Triple-D | 1007890 | Rocks | Trench | 1200 | Carb? | f.g., p-ol-gr, py (trace, diss), fl (5 - 15%), A-zone type rock, suc text | From TR11-018, hand sample 100701 (not analyzed) | 22-Apr-11 |
| 2011 | 100702 | 535763 | 6313629 | Triple-D | 1007890 | Rocks | Trench | 500 | Carb? | dk gy to blk, no fl, dol? or cc? (pale br patches) | From TR11-018 | 22-Apr-11 |
| 2011 | 100703 | 535759 | 6313633 | Triple-D | 1007890 | Rocks | Trench | 650 | - | tan to pale br, dol (abnt), bio (blk patches) | From TR11-018 | 22-Apr-11 |
| 2011 | TR11-19 NE | 535717 | 6313765 | Triple-D | 1007890 | RA Reading | Trench | 1500 | - | - | RA reading at NE corner of TR11-019 | 23-Apr-11 |

Appendix 5: (continued)

| Year Collected | Waypoint | Easting N83Z19 | Northing N83Z19 | General Location | Claim | Observation Type | Subtype | MAX CPS | Tentative Litho | Description | Comments | Date |
|----------------|----------|----------------|-----------------|------------------|---------|------------------|---------|---------|-----------------|--|-------------------------------------|-----------|
| 2011 | 12 | 538763 | 6311967 | Miranna | 2087786 | RA Reading | Ground | 1400 | - | - | - | 29-Aug-11 |
| 2011 | 14 | 538414 | 6311761 | Miranna | 1007660 | RA Reading | Boulder | 1700 | - | - | 1 m bldr in high RA bldr field | 29-Aug-11 |
| 2011 | 15 | 538151 | 6311617 | Miranna | 1007660 | RA Reading | Ground | 1300 | - | - | In high RA bldr field | 29-Aug-11 |
| 2011 | 16 | 537816 | 6311428 | Miranna | 1007659 | RA Reading | Ground | 2200 | - | - | - | 29-Aug-11 |
| 2011 | 92952 | 537809 | 6311425 | Miranna | 1007659 | RA Reading | Boulder | 8400 | - | lt gy with p-pk spots, lt og to rusty dk og wthd, sul (xtls) | - | - |
| 2011 | 107398 | 538707 | 6311934 | Miranna | 2087786 | RA Reading | Boulder | 2200 | - | lt gy with p spot, og-br wthd, sul (xtls) | Two 1 m bldrs in high RA bldr field | - |
| 2011 | 1 | 537205 | 6313162 | Miranna | 2087800 | RA Reading | - | 750 | - | - | - | 11-Aug-11 |
| 2011 | 2 | 537287 | 6313423 | Miranna | 2087800 | RA Reading | - | 850 | - | - | - | 11-Aug-11 |
| 2011 | 3 | 537337 | 6313216 | Miranna | 2087800 | RA Reading | - | 1100 | - | - | - | 11-Aug-11 |
| 2011 | 4 | 537035 | 6313042 | Miranna | 2087800 | RA Reading | - | 3700 | - | - | - | 11-Aug-11 |
| 2011 | 5 | 536347 | 6312640 | Northwest | 2087790 | RA Reading | - | 1500 | - | - | - | 11-Aug-11 |
| 2011 | 6 | 537329 | 6312985 | Miranna | 2087800 | RA Reading | - | 3300 | - | - | - | 11-Aug-11 |

APPENDIX 6A: 2010 AND 2011 SOIL SAMPLE LOCATIONS AND DESCRIPTIONS

Appendix 6a: 2010 and 2011 Soil Sample Locations and Descriptions

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|-------------------------|----------|-----------------------|-------------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91501 | 2011 | Beckling | 540636 | 6313291 | 0.3 | soil | 3 | med br | m.g. sand | poor | rare | ang to oblate | 3-5 | trace | 1-Jul-11 | 70 | - |
| 91502 | 2011 | Beckling | 540594 | 6313265 | 0.5 | soil | 3 | gy-blk | clayey sand (<5% clay) | poor | abnt | ang to oblate | 1-10 | trace | 1-Jul-11 | 65 | - |
| 91503 | 2011 | Beckling | 540551 | 6313240 | 0.35 | soil | 3 | og-br | clayey sand (<5% clay) | poor | abnt | sub-rnd | 1 | trace | 1-Jul-11 | 58 | - |
| 91504 | 2011 | Beckling | 540507 | 6313213 | 0.35 | soil | 4 | gy-br | clayey sand (~10% clay) | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 58 | - |
| 91505 | 2011 | Beckling | 540462 | 6313190 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-3 | trace | 1-Jul-11 | 65 | - |
| 91506 | 2011 | Beckling | 540420 | 6313163 | 0.25 | soil | 4 | gy-br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 155 | - |
| 91507 | 2011 | Beckling | 540377 | 6313139 | 0.2 | soil | 4 | gy-br | sand | moderate | abnt | - | - | trace | 1-Jul-11 | 97 | - |
| 91508 | 2011 | Beckling | 540334 | 6313116 | 0.3 | soil | 3 | og-br | sand | poor | abnt | sub-ang | 5 | trace | 1-Jul-11 | 155 | - |
| 91509 | 2011 | Beckling | 540291 | 6313090 | 0.35 | soil | 2 | og-br | silty sand (<5% silt) | - | abnt | ang to oblate | 1 | - | 1-Jul-11 | 225 | - |
| 91510 | 2011 | Beckling | 540247 | 6313064 | 0.35 | soil | 3 | og-br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 90 | - |
| 91511 | 2011 | Beckling | 540203 | 6313041 | 0.35 | soil | 4 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | none | 1-Jul-11 | 90 | - |
| 91512 | 2011 | Beckling | 540160 | 6313015 | 0.3 | soil | 3 | med br | sand | poor | abnt | sub-rnd to ang | up to 1 | trace | 1-Jul-11 | 103 | - |
| 91513 | 2011 | Beckling | 540117 | 6312989 | 0.35 | soil | 3 | og-br | silty sand (<5% silt) | poor | abnt | ang to oblate | 1 | trace | 1-Jul-11 | 116 | - |
| 91514 | 2011 | Beckling | 540074 | 6312964 | 0.4 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | up to 1 | trace | 1-Jul-11 | 97 | - |
| 91515 | 2011 | Beckling | 540030 | 6312938 | 0.5 | soil | 4 | lt br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 142 | - |
| 91516 | 2011 | Beckling | 539988 | 6312913 | 0.45 | soil | 3 | med br | m.g. sand | poor | abnt | ang | 1-3 | trace | 1-Jul-11 | 168 | - |
| 91517 | 2011 | Beckling | 539945 | 6312888 | 0.55 | soil | 4 | og-br | silty sand | moderate | abnt | ang | 1 | trace | 1-Jul-11 | 194 | - |
| 91518 | 2011 | Beckling | 539906 | 6312859 | 0.25 | soil | 2 | dk br | silty sand | poor | abnt | ang | 1-5 | mod | 1-Jul-11 | 503 | - |
| 91519 | 2011 | Beckling | 539859 | 6312837 | 0.55 | soil | 3 | lt br | silty sand | - | abnt | sub-ang | 1-2 | - | 1-Jul-11 | 232 | - |
| 91520 | 2011 | Beckling | 539814 | 6312812 | 0.35 | soil | 4 | og-br | silty sand | poor | abnt | ang to oblate | 5 | trace | 1-Jul-11 | 200 | - |
| 91521 | 2011 | Beckling | 539772 | 6312788 | 0.3 | soil | 3 | r-br | silty sand | poor | abnt | ang to oblate | up to 10 | trace | 1-Jul-11 | 239 | - |
| 91522 | 2011 | Beckling | 539730 | 6312762 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 232 | - |
| 91523 | 2011 | Beckling | 539686 | 6312737 | 0.4 | soil | 5 | med br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 180 | - |
| 91524 | 2011 | Beckling | 539642 | 6312713 | 0.35 | soil | 3 | dk br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 168 | - |
| 91525 | 2011 | Beckling | 539599 | 6312687 | 0.3 | soil | 3 | dk br | silty sand | poor | abnt | ang | 1 | mod | 1-Jul-11 | 148 | - |
| 91526 | 2011 | Beckling | 539557 | 6312665 | 0.35 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 323 | - |
| 91527 | 2011 | Beckling | 539511 | 6312639 | 0.35 | soil | 4 | blk | silty sand | well | abnt | - | - | mod | 1-Jul-11 | 194 | - |
| 91528 | 2011 | Beckling | 539469 | 6312611 | 0.35 | soil | 4 | lt br | silty sand | poor | abnt | ang | 5 | trace | 1-Jul-11 | 226 | - |
| 91529 | 2011 | Beckling | 539427 | 6312588 | 0.55 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 232 | - |
| 91530 | 2011 | Beckling | 539384 | 6312562 | 0.2 | soil | 3 | r-br | sand | moderate | abnt | ang | 1 | trace | 1-Jul-11 | 477 | - |
| 91531 | 2011 | Beckling | 539339 | 6312535 | 0.4 | soil | 3 | blk | sand | well | abnt | - | - | mod | 1-Jul-11 | 155 | - |
| 91532 | 2011 | Beckling | 539295 | 6312512 | 0.45 | soil | 3 | og-br | sand | well | abnt | - | - | trace | 1-Jul-11 | 206 | - |
| 91533 | 2011 | Beckling | 539251 | 6312487 | 0.45 | soil | 4 | r-br | sand | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 194 | - |
| 91534 | 2011 | Beckling | 539354 | 6312313 | 0.45 | soil | 3 | og-br | sand | poor | abnt | ang | 3 | trace | 1-Jul-11 | 155 | - |
| 91535 | 2011 | Beckling | 539397 | 6312338 | 0.3 | soil | 3 | og-br | sand | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 148 | - |
| 91536 | 2011 | Beckling | 539438 | 6312365 | 0.45 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 2-8 | trace | 1-Jul-11 | 161 | - |
| 91537 | 2011 | Beckling | 539483 | 6312388 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 1-Jul-11 | 181 | - |
| 91538 | 2011 | Beckling | 539527 | 6312413 | 0.3 | soil | 4 | dk br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 284 | - |
| 91539 | 2011 | Beckling | 539571 | 6312439 | 0.35 | soil | 2 | r-br | m.g. sand | poor | abnt | sub-ang | 1 | trace | 1-Jul-11 | 194 | - |
| 91540 | 2011 | Beckling | 539611 | 6312463 | 0.25 | soil | 3 | r-br | clayey sand (<5% clay) | well | abnt | - | - | trace | 1-Jul-11 | 258 | - |
| 91541 | 2011 | Beckling | 539656 | 6312489 | 0.2 | soil | 3 | lt br | sand | poor | abnt | sub-ang | 1-3 | trace | 1-Jul-11 | 393 | - |
| 91542 | 2011 | Beckling | 539698 | 6312514 | 0.15 | soil | 3 | r-br | m.g. sand | poor | abnt | ang | 1-2 | trace | 1-Jul-11 | 645 | - |
| 91543 | 2011 | Beckling | 539743 | 6312538 | 0.6 | soil | 3 | lt br | silty sand | poor | abnt | ang to oblate | up to 4 | trace | 1-Jul-11 | 135 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|------------|----------|-----------------------|-------------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91544 | 2011 | Beckling | 539829 | 6312591 | 0.35 | soil | 3 | dk br | silty sand | well | abnt | - | - | trace | 1-Jul-11 | 142 | - |
| 91545 | 2011 | Beckling | 539871 | 6312615 | 0.5 | soil | 3 | r-br | m.g. sand | poor | abnt | ang | 1-3 | trace | 1-Jul-11 | 129 | - |
| 91546 | 2011 | Beckling | 539925 | 6312639 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | mod | 2-Jul-11 | 310 | - |
| 91547 | 2011 | Beckling | 539960 | 6312666 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang to oblate | up to 2 | trace | 2-Jul-11 | 219 | - |
| 91548 | 2011 | Beckling | 540043 | 6312714 | 0.35 | soil | 3 | r-br | silty sand | poor | abnt | ang to oblate | 1-2 | trace | 2-Jul-11 | 284 | - |
| 91549 | 2011 | Beckling | 540088 | 6312741 | 0.35 | soil | 4 | lt br | silty sand | poor | abnt | ang to oblate | 1-3 | trace | 2-Jul-11 | 142 | - |
| 91550 | 2011 | Beckling | 540175 | 6312792 | - | soil | 3 | og-br | silt | poor | abnt | ang to oblate | up to 2 | mod | 2-Jul-11 | 123 | - |
| 91551 | 2011 | Beckling | 540217 | 6312815 | 0.25 | soil | 3 | gy-br | sandy silt | poor | abnt | - | up to 2 | trace | 2-Jul-11 | 123 | - |
| 91552 | 2011 | Beckling | 540262 | 6312842 | 0.25 | soil | 3 | gy-br | silt | poor | abnt | ang | up to 1 | trace | 2-Jul-11 | 155 | - |
| 91553 | 2011 | Beckling | 540304 | 6312865 | 0.35 | soil | 3 | blk | silty sand | well | abnt | - | - | abdt | 2-Jul-11 | 65 | - |
| 91554 | 2011 | Beckling | 540348 | 6312892 | 0.4 | soil | 3 | blk | silty sand | moderate | abnt | - | up to 0.5 | abdt | 2-Jul-11 | 65 | - |
| 91555 | 2011 | Beckling | 540392 | 6312916 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | - | 1 - 3 | trace | 2-Jul-11 | 103 | - |
| 91556 | 2011 | Beckling | 540434 | 6312942 | 0.5 | soil | 2 | og-br | silty sand | moderate | abnt | - | up to 1 | trace | 2-Jul-11 | 97 | - |
| 91557 | 2011 | Beckling | 540477 | 6312966 | 0.4 | soil | 3 | gy-br | sandy silt | poor | abnt | ang to oblate | up to 0.5 | mod | 2-Jul-11 | 90 | - |
| 91558 | 2011 | Beckling | 540521 | 6312992 | 0.3 | soil | 3 | gy-br | silty sand | poor | abnt | ang to oblate | up to 1 | trace | 2-Jul-11 | 90 | - |
| 91559 | 2011 | Beckling | 540564 | 6313017 | 0.2 | soil | 3 | og-gy | silty sand | poor | abnt | ang to oblate | up to 1 | trace | 2-Jul-11 | 103 | - |
| 91560 | 2011 | Beckling | 540607 | 6313042 | 0.4 | soil | 3 | gy-br | sandy silt | poor | abnt | ang to oblate | up to 1 | mod | 2-Jul-11 | 77 | - |
| 91561 | 2011 | Beckling | 540650 | 6313066 | 0.3 | soil | 2 | lt br | silty sand | well | abnt | - | - | trace | 2-Jul-11 | 90 | - |
| 91562 | 2011 | Beckling | 540695 | 6313092 | 0.35 | soil | 2 | gy-blk | silty sand | poor | abnt | ang to oblate | 1-3 | abdt | 2-Jul-11 | 71 | - |
| 91563 | 2011 | Beckling | 540737 | 6313118 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | ang | 1-6 | trace | 2-Jul-11 | 52 | - |
| 91564 | 2011 | Beckling | 540778 | 6313142 | 0.35 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 2-Jul-11 | 65 | - |
| 91565 | 2011 | Beckling | 540824 | 6313170 | 0.35 | soil | 2 | dk gy-blk | sandy silt | well | abnt | ang to oblate | 1 | abdt | 2-Jul-11 | 97 | - |
| 91566 | 2011 | Beckling | 540923 | 6312995 | 0.35 | soil | 3 | dk gy | silty sand | poor | abnt | ang to oblate | up to 1 | mod | 2-Jul-11 | 71 | - |
| 91567 | 2011 | Beckling | 540883 | 6312970 | 0.3 | soil | 4 | dk gy | silt | poor | abnt | ang | up to 1 | trace | 2-Jul-11 | 103 | - |
| 91568 | 2011 | Beckling | 540836 | 6312944 | 0.25 | soil | 2 | blk | sand | well | abnt | - | - | abdt | 2-Jul-11 | 65 | - |
| 91569 | 2011 | Beckling | 540794 | 6312918 | 0.4 | soil | 2 | dk gy-blk | silty sand | well | abnt | ang to oblate | 1 | abdt | 2-Jul-11 | 77 | - |
| 91570 | 2011 | Beckling | 540753 | 6312895 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 3-4 | trace | 2-Jul-11 | 103 | - |
| 91571 | 2011 | Beckling | 540708 | 6312870 | 0.3 | soil | 3 | dk gy | silty sand | moderate | abnt | sub-ang | 1 | mod | 2-Jul-11 | 77 | - |
| 91572 | 2011 | Beckling | 540664 | 6312844 | 0.25 | soil | 2 | gy-br | silty sand | poor | abnt | ang to oblate | 1-3 | trace | 2-Jul-11 | 90 | - |
| 91573 | 2011 | Beckling | 540621 | 6312819 | 0.3 | soil | 2 | dk br | silty sand | poor | abnt | ang to oblate | up to 2 | trace | 2-Jul-11 | 310 | - |
| 91574 | 2011 | Beckling | 540577 | 6312795 | 0.4 | soil | 3 | dk gy | silty sand | poor | abnt | sub-ang | 0.5 - 1 | mod | 2-Jul-11 | 84 | - |
| 91575 | 2011 | Beckling | 540536 | 6312767 | 0.6 | soil | 4 | og-br | silty sand | well | abnt | - | - | mod | 2-Jul-11 | 71 | - |
| 91576 | 2011 | Beckling | 540490 | 6312743 | 0.35 | soil | 4 | blk | silty sand | well | abnt | - | - | abdt | 2-Jul-11 | 65 | - |
| 91577 | 2011 | Beckling | 540447 | 6312719 | 0.35 | soil | 3 | og-br | silty sand | moderate | abnt | ang to oblate | 2 | trace | 2-Jul-11 | 110 | - |
| 91578 | 2011 | Beckling | 540406 | 6312692 | 0.2 | soil | 3 | lt br | silty sand | - | abnt | sub-ang | 1-3 | trace | 2-Jul-11 | 168 | - |
| 91579 | 2011 | Beckling | 540361 | 6312669 | 0.4 | soil | 4 | blk | sandy clay | well | abnt | - | - | abdt | 2-Jul-11 | 84 | - |
| 91580 | 2011 | Beckling | 540321 | 6312646 | 0.4 | soil | 4 | blk | silty sand | well | abnt | - | - | abdt | 4-Jul-11 | 155 | - |
| 91581 | 2011 | Beckling | 540276 | 6312619 | 0.35 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 194 | - |
| 91582 | 2011 | Beckling | 540232 | 6312593 | 0.2 | soil | 3 | og-br | m.g. sand | poor | abnt | ang to oblate | 1 | trace | 4-Jul-11 | 129 | - |
| 91583 | 2011 | Beckling | 540197 | 6312570 | 0.4 | soil | 3 | gy-br | silty sand | poor | abnt | ang to oblate | 1-3 | mod | 4-Jul-11 | 226 | - |
| 91584 | 2011 | Beckling | 540145 | 6312543 | 0.5 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 239 | - |
| 91585 | 2011 | Beckling | 540102 | 6312516 | 0.5 | soil | 4 | med br | silty sand | poor | abnt | sub-ang | 2 | mod | 4-Jul-11 | 245 | - |
| 91586 | 2011 | Beckling | 540059 | 6312492 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 226 | - |
| 91587 | 2011 | Beckling | 540016 | 6312468 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | - | - | none | 4-Jul-11 | 161 | - |
| 91588 | 2011 | Beckling | 539972 | 6312442 | 0.4 | soil | 5 | lt br | silty sand | moderate | abnt | ang | 1-3 | trace | 4-Jul-11 | 168 | - |
| 91589 | 2011 | Beckling | 539930 | 6312417 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 4-Jul-11 | 194 | - |
| 91590 | 2011 | Beckling | 539886 | 6312390 | 0.6 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 4-Jul-11 | 213 | - |
| 91591 | 2011 | Beckling | 539842 | 6312366 | 0.35 | soil | 3 | r-br | silty sand | poor | abnt | ang to oblate | 1 | trace | 4-Jul-11 | 148 | - |
| 91592 | 2011 | Beckling | 539800 | 6312342 | 0.5 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 181 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|------------------------|----------|-----------------------|------------------------|-----------|----------|----------|-----|-------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91593 | 2011 | Beckling | 539757 | 6312317 | 0.35 | soil | 3 | med br | silty sand | moderate | abnt | ang to oblate | 1 | trace | 4-Jul-11 | 206 | - |
| 91594 | 2011 | Beckling | 539714 | 6312290 | 0.5 | soil | 3 | med br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 135 | - |
| 91595 | 2011 | Beckling | 539669 | 6312265 | 0.4 | soil | 3 | med br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 155 | - |
| 91596 | 2011 | Beckling | 539626 | 6312242 | 0.45 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 4-Jul-11 | 232 | - |
| 91597 | 2011 | Beckling | 539585 | 6312216 | 0.65 | soil | 4 | blk | silty sand | well | abnt | - | - | mod | 4-Jul-11 | 148 | - |
| 91598 | 2011 | Beckling | 539541 | 6312190 | 0.35 | soil | 3 | blk | silty sand | poor | abnt | sub-ang | 3-5 | mod | 4-Jul-11 | 265 | - |
| 91599 | 2011 | Beckling | 539498 | 6312166 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | none | 4-Jul-11 | 129 | - |
| 91600 | 2011 | Beckling | 539455 | 6312141 | 0.55 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 142 | - |
| 91601 | 2011 | Beckling | 539555 | 6311968 | 0.35 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 129 | - |
| 91602 | 2011 | Beckling | 539599 | 6311993 | 0.45 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang | 1-2 | none | 4-Jul-11 | 135 | - |
| 91603 | 2011 | Beckling | 539640 | 6312019 | 0.5 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 4-Jul-11 | 452 | - |
| 91604 | 2011 | Beckling | 539685 | 6312044 | 0.3 | soil | 3 | dk br | silty sand | well | abnt | - | - | trace | 4-Jul-11 | 129 | - |
| 91605 | 2011 | Beckling | 539725 | 6312067 | 0.45 | soil | 4 | blk | silty sand | well | abnt | - | - | abdt | 4-Jul-11 | 232 | - |
| 91606 | 2011 | Beckling | 539770 | 6312092 | 0.35 | soil | 3 | lt br | silty sand | moderate | abnt | rnd | 5 | mod | 4-Jul-11 | 129 | - |
| 91607 | 2011 | Beckling | 539813 | 6312118 | 0.25 | soil | 2 | lt br | c.g. sand | poor | abnt | ang | up to 1 | trace | 4-Jul-11 | 258 | - |
| 91608 | 2011 | Beckling | 539856 | 6312145 | 0.6 | soil | 3 | lt br | silty sand | well | abnt | - | - | mod | 4-Jul-11 | 142 | - |
| 91609 | 2011 | Beckling | 539900 | 6312168 | 0.5 | soil | 3 | dk br | silty sand | well | abnt | - | - | abdt | 4-Jul-11 | 129 | - |
| 91610 | 2011 | Beckling | 539943 | 6312193 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 4-Jul-11 | 123 | - |
| 91611 | 2011 | Beckling | 539986 | 6312220 | 0.5 | soil | 3 | og-br | silty sand | poor | abnt | ang | 1 | trace | 4-Jul-11 | 181 | - |
| 91612 | 2011 | Beckling | 540029 | 6312245 | 0.15 | soil | 3 | og-br | silty sand | moderate | abnt | ang to oblate | 5-8 | none | 4-Jul-11 | 135 | - |
| 91613 | 2011 | Beckling | 540074 | 6312269 | 0.45 | soil | 3 | r-br | silty sand | moderate | abnt | sub-ang | 1 | mod | 4-Jul-11 | 168 | - |
| 91614 | 2011 | Beckling | 540117 | 6312295 | 0.2 | soil | 4 | med br | silty sand | moderate | abnt | sub-ang to oblate | 3 | trace | 4-Jul-11 | 168 | - |
| 91615 | 2011 | Beckling | 540160 | 6312319 | 0.15 | soil | 3 | r-br | silty sand | moderate | abnt | ang to oblate | 1 | trace | 4-Jul-11 | 129 | - |
| 91616 | 2011 | Beckling | 540203 | 6312344 | 0.1 | soil | 2 | og-br | clayey sand (<5% clay) | well | abnt | - | - | none | 4-Jul-11 | 252 | - |
| 91617 | 2011 | Beckling | 540247 | 6312369 | 0.1 | soil | 2 | r-br | silty sand | poor | abnt | ang to oblate | 1-3 | trace | 4-Jul-11 | 335 | - |
| 91618 | 2011 | Beckling | 540280 | 6312389 | 0.35 | soil | 4 | lt br | silty sand | well | abnt | - | - | mod | 4-Jul-11 | 335 | - |
| 91619 | 2011 | Beckling | 540378 | 6312445 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | ang | 0.5 - 2 | mod | 6-Jul-11 | 232 | - |
| 91620 | 2011 | Beckling | 540419 | 6312472 | 0.4 | soil | 2 | dk og-br | silty sand | well | abnt | ang | up to 1 | mod | 6-Jul-11 | 194 | - |
| 91621 | 2011 | Beckling | 540463 | 6312494 | 0.2 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 0.5 | mod | 6-Jul-11 | 103 | - |
| 91622 | 2011 | Beckling | 540506 | 6312521 | 0.2 | soil | 2 | dk og-br | silty sand | poor | abnt | ang | up to 2 | trace | 6-Jul-11 | 168 | - |
| 91623 | 2011 | Beckling | 540550 | 6312547 | 0.3 | soil | 3 | br | silty clay | well | abnt | - | - | mod | 6-Jul-11 | 161 | - |
| 91624 | 2011 | Beckling | 540593 | 6312575 | 0.25 | soil | 3 | med og-br | silty sand | moderate | abnt | ang to sub-ang | up to 3 | mod | 6-Jul-11 | 142 | - |
| 91625 | 2011 | Beckling | 540635 | 6312598 | 0.45 | soil | 2 | dk br-blk | silty sand | well | abnt | ang | 1-2 | abdt | 6-Jul-11 | 97 | - |
| 91626 | 2011 | Beckling | 540675 | 6312622 | 0.3 | soil | 4 | dk br | silty sand | poor | abnt | ang to sub-ang | up to 1 | mod | 6-Jul-11 | 90 | - |
| 91627 | 2011 | Beckling | 540721 | 6312646 | - | soil | 3 | dk br | silty sand | poor | abnt | ang to sub-ang | 0.5-2 | mod | 6-Jul-11 | 103 | - |
| 91628 | 2011 | Beckling | 540763 | 6312682 | 0.25 | soil | 3 | dk br | silty sand | moderate | abnt | sub-ang to oblate | 1 | - | 6-Jul-11 | 65 | Slightly off grid |
| 91629 | 2011 | Beckling | 540900 | 6312746 | 0.25 | soil | 2.5 | blk | silty sand | well | abnt | - | - | abdt | 6-Jul-11 | 58 | - |
| 91630 | 2011 | Beckling | 540937 | 6312770 | 0.35 | soil | 1 | dk og-br | silty sand | - | abnt | ang to sub-ang, oblate | 0.5-1 | trace | 6-Jul-11 | 71 | - |
| 91631 | 2011 | Beckling | 540980 | 6312801 | 0.3 | soil | - | lt og-br | silty clay | moderate | abnt | sub-ang to sub-rnd | up to 0.5 | trace | 6-Jul-11 | 103 | - |
| 91632 | 2011 | Beckling | 541025 | 6312821 | 0.25 | soil | 2.5 | dk br | silty sand | poor | abnt | ang to rnd | 3-10.5 | mod | 6-Jul-11 | 90 | - |
| 91633 | 2011 | Beckling | 541142 | 6313119 | 0.4 | soil | 4 | og-br | sandy silt | moderate | abnt | - | grit | mod | 6-Jul-11 | 65 | - |
| 91634 | 2011 | Beckling | 541181 | 6313147 | 0.35 | soil | 2 | dk br | silty sand | poor | abnt | ang to sub-ang, oblate | up to 2 | trace | 6-Jul-11 | 71 | - |
| 91635 | 2011 | Beckling | 541226 | 6313168 | 0.3 | soil | 3 | lt gy-br | silty clay | well | abnt | - | - | trace | 6-Jul-11 | 103 | - |
| 91636 | 2011 | Beckling | 541272 | 6313205 | 0.5 | soil | 4 | dk br-blk | clay | well | abnt | - | - | mod-abdt | 6-Jul-11 | 65 | - |
| 91637 | 2011 | Beckling | 541314 | 6313223 | 0.15 | soil | 1 | dk br-blk | silty sand | poor | abnt | ang to oblate | up to 2 | abdt | 6-Jul-11 | 77 | - |
| 91638 | 2011 | Beckling | 541356 | 6313248 | 0.2 | soil | 2 | med br | silty clay | poor | abnt | sub-ang to sub-rnd | up to 5 | mod | 6-Jul-11 | 97 | - |
| 91639 | 2011 | Beckling | 541396 | 6313274 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to sub-rnd | up to 2 | trace | 6-Jul-11 | 103 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|------------------------|----------|-----------------------|------------------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91640 | 2011 | Beckling | 541501 | 6313099 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | ang to sub-ang | up to 1 | none | 6-Jul-11 | 90 | - |
| 91641 | 2011 | Beckling | 541456 | 6313073 | 0.5 | soil | 4 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | mod | 6-Jul-11 | 110 | - |
| 91642 | 2011 | Beckling | 541412 | 6313047 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang to oblate | 2-3 | trace | 6-Jul-11 | 110 | - |
| 91643 | 2011 | Beckling | 541373 | 6313025 | 0.35 | soil | 2 | og-br | silty sand/gravel | moderate | abnt | oblate | 2-3 | none | 6-Jul-11 | 110 | - |
| 91644 | 2011 | Beckling | 541327 | 6312998 | 0.25 | soil | 4 | med gy-br | silty sand | well | abnt | ang to sub-ang | 1-2 | none | 6-Jul-11 | 116 | - |
| 91645 | 2011 | Beckling | 541282 | 6312972 | 0.4 | soil | 2 | med br | silty clay | poor | abnt | sub-ang | 4-5 | none | 6-Jul-11 | 103 | - |
| 91646 | 2011 | Beckling | 541603 | 6312924 | 0.35 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 6-Jul-11 | 135 | - |
| 91647 | 2011 | Beckling | 541559 | 6312903 | 0.35 | soil | 2 | dk br-blk | silty clay | well | abnt | - | - | abdt | 6-Jul-11 | 84 | - |
| 91648 | 2011 | Beckling | 541517 | 6312876 | 0.4 | soil | 2 | med br-gy | silty sand | poor | abnt | sub-ang | up to 6 | mod | 6-Jul-11 | 103 | - |
| 91649 | 2011 | Beckling | 541470 | 6312852 | 0.55 | soil | 4 | med gy-br | silty sand | well | abnt | - | - | mod | 6-Jul-11 | 103 | - |
| 91650 | 2011 | Beckling | 541424 | 6312826 | 0.45 | soil | 5 | med og-br | silty clay | well | abnt | sub-ang to ang, oblate | up to 1 | mod | 6-Jul-11 | 116 | - |
| 91651 | 2011 | Beckling | 541384 | 6312797 | 0.3 | soil | 2 | med br-gy | silty clay | poor | abnt | sub-rnd | up to 5 | trace | 6-Jul-11 | 135 | - |
| 91652 | 2011 | Beckling | 541340 | 6312776 | 0.35 | soil | 5 | med br-gy | clay | well | abnt | sub-rnd | up to 1 | mod | 6-Jul-11 | 110 | - |
| 91653 | 2011 | Beckling | 541296 | 6312749 | 0.45 | soil | 2 | med br-gy | silty clay | moderate | abnt | sub-ang to sub-rnd | up to 1 | trace | 6-Jul-11 | 103 | - |
| 91654 | 2011 | Beckling | 541252 | 6312725 | 0.25 | soil | 3 | lt br | clayey sand (<5% clay) | well | abnt | - | - | trace | 7-Jul-11 | 97 | - |
| 91655 | 2011 | Beckling | 541211 | 6312700 | 0.5 | soil | 3 | r-br | silty sand | well | abnt | - | - | none | 7-Jul-11 | 97 | - |
| 91656 | 2011 | Beckling | 541168 | 6312675 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | ang | 1-8 | trace | 7-Jul-11 | 103 | - |
| 91657 | 2011 | Beckling | 541124 | 6312647 | 0.6 | soil | 5 | med br | silty sand | well | abnt | - | - | abdt | 7-Jul-11 | 77 | - |
| 91658 | 2011 | Beckling | 541083 | 6312625 | 0.4 | soil | 4 | dk br | clayey sand (<5% clay) | well | abnt | - | - | abdt | 7-Jul-11 | 110 | - |
| 91659 | 2011 | Beckling | 541038 | 6312599 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | ang to oblate | 1 | trace | 7-Jul-11 | 110 | - |
| 91660 | 2011 | Beckling | 540996 | 6312574 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | ang | 1-5 | none | 7-Jul-11 | 77 | - |
| 91661 | 2011 | Beckling | 540953 | 6312548 | 0.5 | soil | 4 | og-br | silty sand | well | abnt | - | - | trace | 7-Jul-11 | 110 | - |
| 91662 | 2011 | Beckling | 540910 | 6312523 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | none | 7-Jul-11 | 161 | - |
| 91663 | 2011 | Beckling | 540866 | 6312498 | 0.35 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 7-Jul-11 | 103 | - |
| 91664 | 2011 | Beckling | 540823 | 6312474 | 0.6 | soil | 3 | r-br | silty sand | moderate | abnt | sub-ang | 1 | none | 7-Jul-11 | 161 | - |
| 91665 | 2011 | Beckling | 540778 | 6312449 | 0.4 | soil | 5 | dk br | silty sand | well | abnt | - | - | mod | 7-Jul-11 | 84 | - |
| 91666 | 2011 | Beckling | 540736 | 6312423 | 0.45 | soil | 2 | og-br | silty sand | moderate | abnt | ang to oblate | 1 | none | 7-Jul-11 | 155 | - |
| 91667 | 2011 | Beckling | 540693 | 6312398 | 0.35 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | ang to oblate | 1-5 | trace | 7-Jul-11 | 232 | - |
| 91668 | 2011 | Beckling | 540650 | 6312372 | 0.45 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 7-Jul-11 | 181 | - |
| 91669 | 2011 | Beckling | 540605 | 6312348 | 0.3 | soil | 3 | og-br | clayey sand (<5% clay) | well | abnt | - | - | none | 7-Jul-11 | 148 | - |
| 91670 | 2011 | Beckling | 540564 | 6312322 | 0.45 | soil | 3 | med br | clayey sand (<5% clay) | well | abnt | - | - | mod | 7-Jul-11 | 110 | - |
| 91671 | 2011 | Beckling | 540520 | 6312298 | 0.25 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 7-Jul-11 | 135 | - |
| 91672 | 2011 | Beckling | 540477 | 6312273 | 0.25 | soil | 2 | r-br | silty sand | well | abnt | - | - | trace | 7-Jul-11 | 232 | - |
| 91673 | 2011 | Beckling | 540432 | 6312249 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | ang | 1 | mod | 7-Jul-11 | 168 | - |
| 91674 | 2011 | Beckling | 540391 | 6312224 | 0.4 | soil | 3 | og-br | clayey sand | well | abnt | - | - | trace | 7-Jul-11 | 155 | - |
| 91675 | 2011 | Beckling | 540348 | 6312197 | 0.4 | soil | 3 | dk br | silty sand | moderate | abnt | sub-ang | 1 | mod | 7-Jul-11 | 126 | - |
| 91676 | 2011 | Beckling | 540304 | 6312172 | - | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 7-Jul-11 | 174 | - |
| 91677 | 2011 | Beckling | 540262 | 6312146 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1-3 | trace | 7-Jul-11 | 284 | - |
| 91678 | 2011 | Beckling | 540217 | 6312121 | 0.5 | soil | 3 | og-br | clayey sand (<5% clay) | moderate | abnt | sub-ang | up to 1 | trace | 7-Jul-11 | 232 | - |
| 91679 | 2011 | Beckling | 540174 | 6312096 | 0.3 | soil | 3 | med br | clayey sand (<5% clay) | poor | abnt | sub-ang to oblate | 1-8 | trace | 7-Jul-11 | 258 | - |
| 91680 | 2011 | Beckling | 540131 | 6312070 | 0.4 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang to oblate | 1-5 | trace | 7-Jul-11 | 206 | - |
| 91681 | 2011 | Beckling | 540088 | 6312046 | 0.55 | soil | 3 | blk | silty sand | well | abnt | - | - | abdt | 7-Jul-11 | 116 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|---------------|------------------------|----------|-----------------------|---------------|----------------|----------|-----------|-----|-------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91682 | 2011 | Beckling | 540044 | 6312022 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | sub-rnd | 8 | trace | 7-Jul-11 | -1 | Scint not working |
| 91683 | 2011 | Beckling | 540001 | 6311996 | 0.4 | soil | 3 | lt br | silty sand | moderate | abnt | sub-rnd | 2 | trace | 7-Jul-11 | -1 | Scint not working |
| 91684 | 2011 | Beckling | 539957 | 6311970 | 0.45 | soil | 3 | dk br | silty sand | well | abnt | - | - | trace | 7-Jul-11 | -1 | Scint not working |
| 91685 | 2011 | Beckling | 539913 | 6311945 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 7-Jul-11 | -1 | Scint not working |
| 91686 | 2011 | Beckling | 539870 | 6311919 | 0.45 | soil | 4 | med br | silty sand | poor | abnt | ang to oblate | 1-3 | trace | 7-Jul-11 | -1 | Scint not working |
| 91687 | 2011 | Beckling | 539828 | 6311895 | 0.2 | soil | 4 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-5 | none | 7-Jul-11 | -1 | Scint not working |
| 91688 | 2011 | Beckling | 539785 | 6311871 | 0.25 | soil | 4 | med br | silty sand | well | abnt | - | - | trace | 7-Jul-11 | -1 | Scint not working |
| 91689 | 2011 | Beckling | 539742 | 6311846 | 0.25 | soil | 4 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-2 | trace | 7-Jul-11 | -1 | Scint not working |
| 91690 | 2011 | Beckling | 539699 | 6311821 | 0.35 | soil | 4 | gy-br | clayey sand (<5% clay) | moderate | abnt | ang | up to 1 | trace | 7-Jul-11 | -1 | Scint not working |
| 91691 | 2011 | Beckling | 539655 | 6311794 | - | soil | 2 | r | c.g. sand | poor | abnt | sub-ang | 1-3 | trace | 7-Jul-11 | -1 | Scint not working |
| 91692 | 2011 | MC | 541703 | 6312754 | 0.5 | soil | 2 | lt br | silt | - | abnt | - | - | trace | 10-Jul-11 | 160 | - |
| 91693 | 2011 | MC | 541657 | 6312727 | 0.6 | soil | 2 | lt og-br | sand | - | abnt | - | - | trace | 10-Jul-11 | 95 | - |
| 91694 | 2011 | MC | 541612 | 6312701 | 0.5 | soil | 2 | lt og-br | sand | - | abnt | - | granular | trace | 10-Jul-11 | 110 | - |
| 91695 | 2011 | MC | 541572 | 6312679 | 0.4 | soil | 2 | lt br | sandy silt | - | abnt | sub-ang | pebble | mod | 10-Jul-11 | 105 | - |
| 91696 | 2011 | MC | 541533 | 6312649 | 0.3 | soil | 4 | br | silt | - | abnt | - | - | abdt | 10-Jul-11 | 80 | - |
| 91697 | 2011 | MC | 541485 | 6312628 | 0.4 | soil | 3 | br | silt | - | abnt | ang | pebble | mod | 10-Jul-11 | 80 | - |
| 91698 | 2011 | MC | 541446 | 6312598 | - | soil | 5 | gy-br | silt | - | abnt | ang | pebble | abdt | 10-Jul-11 | 75 | - |
| 91699 | 2011 | MC | 541138 | 6312425 | 0.4 | soil | 3 | br | sand | - | abnt | sub-ang | pebble | trace | 10-Jul-11 | 75 | - |
| 91700 | 2011 | MC | 541093 | 6312403 | - | soil | 2 | og-br | silty sand | - | abnt | ang | pebble | trace | 10-Jul-11 | 90 | - |
| 91701 | 2011 | MC | 541055 | 6312372 | 0.4 | soil | 5 | lt y-br | sandy silt | - | abnt | - | - | mod | 10-Jul-11 | 155 | - |
| 91702 | 2011 | MC | 541010 | 6312348 | 0.35 | soil | 3 | og-br | sandy silt | - | abnt | sub-ang | pebble | mod | 10-Jul-11 | 142 | - |
| 91703 | 2011 | MC | 540968 | 6312326 | 0.3 | soil | 2 | og-br | silt | - | abnt | rnd | pebble | mod | 10-Jul-11 | 135 | - |
| 91704 | 2011 | MC | 540926 | 6312299 | 0.3 | soil | 4 | gy | clay | - | abnt | - | - | trace | 10-Jul-11 | 123 | - |
| 91705 | 2011 | MC | 540880 | 6312277 | 0.5 | soil | 3 | lt br | silt | - | abnt | - | - | mod | 10-Jul-11 | 129 | - |
| 91706 | 2011 | MC | 540831 | 6312258 | 0.25 | soil | 2 | og-br | silt | - | abnt | ang | pebble | abdt | 10-Jul-11 | 116 | - |
| 91707 | 2011 | MC | 540750 | 6312198 | 0.6 | soil | 2 | lt og-br | silty sand | - | abnt | - | - | trace | 10-Jul-11 | 387 | - |
| 91708 | 2011 | MC | 540706 | 6312179 | 0.25 | soil | 2 | og-br | silt | - | abnt | - | - | abdt | 10-Jul-11 | 297 | - |
| 91709 | 2011 | MC | 540660 | 6312147 | 0.5 | soil | 2 | og-br | - | - | abnt | - | grit, granular | trace | 10-Jul-11 | 264 | - |
| 91710 | 2011 | MC | 540624 | 6312124 | 0.4 | soil | 2 | dk br and blk | silt | - | abnt | - | - | abdt | 10-Jul-11 | 258 | - |
| 91711 | 2011 | MC | 540579 | 6312100 | - | soil | 2 | r-br | sandy silt | - | abnt | ang | pebble | mod | 10-Jul-11 | 361 | - |
| 91712 | 2011 | MC | 540535 | 6312072 | 0.25 | soil | 5 | br | f.g. sand | - | abnt | - | - | abdt | 10-Jul-11 | 284 | - |
| 91713 | 2011 | MC | 540490 | 6312052 | 0.3 | soil | 2 | lt og-br | v.f.g. sand | - | abnt | - | - | trace | 10-Jul-11 | 323 | - |
| 91714 | 2011 | MC | 540446 | 6312031 | 0.25 | soil | 2 | og-br | silty sand | - | abnt | - | - | abdt | 10-Jul-11 | 335 | - |
| 91715 | 2011 | MC | 540403 | 6311999 | 0.35 | soil | 3 | lt br | silt | - | abnt | - | - | trace | 10-Jul-11 | 194 | - |
| 91716 | 2011 | MC | 540358 | 6311972 | 0.45 | soil | 4 | lt og-br | silt | - | abnt | ang | pebble | mod | 10-Jul-11 | 323 | - |
| 91717 | 2011 | MC | 540316 | 6311945 | 0.4 | soil | 3 | lt og-br | silt | - | abnt | - | - | trace | 10-Jul-11 | 271 | - |
| 91718 | 2011 | MC | 540274 | 6311924 | 0.5 | soil | 3 | dk br | - | - | abnt | ang | granular | abdt | 10-Jul-11 | 271 | - |
| 91719 | 2011 | MC | 540228 | 6311897 | 0.5 | soil | 2 | lt og-br | - | - | abnt | - | granular | mod | 10-Jul-11 | 465 | - |
| 91720 | 2011 | MC | 540190 | 6311871 | 0.45 | soil | 2 | dk br | silty sand | - | abnt | sub-ang | pebble | mod | 10-Jul-11 | 284 | - |
| 91721 | 2011 | MC | 540147 | 6311849 | 0.35 | soil | 3 | br | silt | - | abnt | - | - | mod | 10-Jul-11 | 181 | - |
| 91722 | 2011 | MC | 540100 | 6311828 | 0.45 | soil | 3 | og-br | - | - | abnt | sub-rnd | grit-pebble | abdt | 10-Jul-11 | 168 | - |
| 91723 | 2011 | MC | 540053 | 6311801 | 0.4 | soil | 3 | dk gy | silt | - | abnt | - | - | abdt | 10-Jul-11 | 116 | - |
| 91724 | 2011 | MC | 539757 | 6311626 | 0.3 | soil | - | br | silt | - | abnt | sub-rnd | pebble | abdt | 10-Jul-11 | 245 | - |
| 91725 | 2011 | MC | 539854 | 6311448 | 0.3 | soil | 3 | br-gy | silt | - | abnt | - | - | abdt | 10-Jul-11 | 181 | - |
| 91726 | 2011 | MC | 541725 | 6310224 | 0.2 | soil | 3 | br-gy | silty clay | poor | abnt | sub-ang | 1-6 | trace | 1-Aug-11 | 110 | - |
| 91727 | 2011 | MC | 541684 | 6310196 | 0.1 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 1-3 | trace | 1-Aug-11 | 100 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|---------------------|----------|-----------------------|-------------------|----------------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91728 | 2011 | MC | 541637 | 6310172 | 0.3 | soil | 3 | gy-br | clay | poor | abnt | sub-ang | 2-8 | none | 1-Aug-11 | 110 | - |
| 91729 | 2011 | MC | 541553 | 6310123 | 0.4 | soil | 2 | og-br | silty sand | moderate | abnt | ang | 4-9 | none | 1-Aug-11 | 110 | - |
| 91730 | 2011 | MC | 541509 | 6310094 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-4 | trace | 1-Aug-11 | 100 | - |
| 91731 | 2011 | MC | 541467 | 6310071 | 0.4 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 1-Aug-11 | 110 | - |
| 91732 | 2011 | MC | 541421 | 6310046 | 0.35 | soil | 3 | gy-br | silty clay | well | abnt | sub-ang to oblate | 1-2 | none | 1-Aug-11 | 120 | - |
| 91733 | 2011 | MC | 541380 | 6310022 | 0.3 | soil | 4 | gy-br | silty clay | well | abnt | - | - | trace | 1-Aug-11 | 130 | - |
| 91734 | 2011 | MC | 541336 | 6309994 | 0.4 | soil | 2 | r-br | silty sand | well | abnt | - | - | none | 1-Aug-11 | 130 | - |
| 91735 | 2011 | MC | 541294 | 6309972 | 0.4 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 8 | trace | 1-Aug-11 | 150 | - |
| 91736 | 2011 | MC | 541251 | 6309947 | 0.35 | soil | 2 | r-br | silty sand | well | abnt | - | - | abdt | 1-Aug-11 | 200 | - |
| 91737 | 2011 | MC | 541207 | 6309920 | 0.2 | soil | 3 | og-br | silty sand and clay | moderate | abnt | - | - | abdt | 1-Aug-11 | 110 | - |
| 91738 | 2011 | MC | 541162 | 6309894 | 0.2 | soil | 2 | r-br | silty sand | well | abnt | rnd | 1 | trace | 1-Aug-11 | 110 | - |
| 91739 | 2011 | MC | 541121 | 6309870 | 0.45 | soil | 4 | gy-br | silty clay | moderate | abnt | - | - | abdt | 1-Aug-11 | 80 | - |
| 91740 | 2011 | MC | 540989 | 6309792 | 0.45 | soil | 3 | gy-br | silty clay | poor | abnt | sub-ang | 1-4 | trace | 1-Aug-11 | 50 | - |
| 91741 | 2011 | MC | 540948 | 6309770 | 0.3 | soil | 4 | med br | silty sand | poor | abnt | ang | 1-4 | trace | 1-Aug-11 | 60 | - |
| 91742 | 2011 | MC | 540905 | 6309746 | 0.4 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 1-Aug-11 | 70 | - |
| 91743 | 2011 | MC | 540862 | 6309721 | 0.3 | soil | 2 | r-br | silty sand | well | abnt | - | - | none | 1-Aug-11 | 60 | - |
| 91744 | 2011 | MC | 540959 | 6309547 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 1-Aug-11 | 70 | - |
| 91745 | 2011 | MC | 541005 | 6309573 | 0.3 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | 1-4 | trace | 1-Aug-11 | 80 | - |
| 91746 | 2011 | MC | 541046 | 6309597 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-4 | abdt | 1-Aug-11 | 70 | - |
| 91747 | 2011 | MC | 541134 | 6309650 | 0.4 | soil | 4 | gy-br | silty clay | well | abnt | - | - | trace | 1-Aug-11 | 50 | - |
| 91748 | 2011 | MC | 541179 | 6309673 | 0.35 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 1-Aug-11 | 90 | - |
| 91749 | 2011 | MC | 541218 | 6309698 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 1-Aug-11 | 70 | - |
| 91750 | 2011 | MC | 541264 | 6309723 | 0.5 | soil | 2 | med br | silty sand and clay | poor | abnt | sub-ang | 1-2 | trace | 1-Aug-11 | 80 | - |
| 91751 | 2011 | MC | 539900 | 6311469 | 0.25 | soil | 2 | br | silt | - | abnt | sub-ang | pebble | abdt | 10-Jul-11 | 150 | - |
| 91752 | 2011 | MC | 539939 | 6311500 | 0.25 | soil | 2 | br | - | - | abnt | - | grit, granular | abdt | 10-Jul-11 | 310 | - |
| 91753 | 2011 | MC | 541801 | 6312581 | 0.4 | soil | 2 | lt br | silt | - | abnt | sub-ang | pebble | mod | 12-Jul-11 | 80 | - |
| 91754 | 2011 | MC | 541762 | 6312557 | 0.4 | soil | 2 | lt br | f.g. sand | - | abnt | sub-ang | pebble | mod | 12-Jul-11 | 75 | - |
| 91755 | 2011 | MC | 541714 | 6312528 | 0.5 | soil | 2 | lt gy-br | f.g. sand | - | abnt | sub-ang | pebble | mod | 12-Jul-11 | 100 | - |
| 91756 | 2011 | MC | 541673 | 6312508 | - | soil | 2 | lt br | granular | - | abnt | sub-ang | pebble | abdt | 12-Jul-11 | 80 | - |
| 91757 | 2011 | MC | 541630 | 6312476 | 0.5 | soil | 3 | lt br | grit - granular | - | abnt | ang | pebble | mod | 12-Jul-11 | 100 | - |
| 91758 | 2011 | MC | 541583 | 6312460 | 0.5 | soil | 2 | lt br | grit - granular | - | abnt | ang | pebble | mod | 12-Jul-11 | 100 | - |
| 91759 | 2011 | MC | 541543 | 6312428 | 0.35 | soil | 4 | lt br | grit - granular | - | abnt | sub-ang | pebble | mod | 12-Jul-11 | -1 | - |
| 91760 | 2011 | MC | 541499 | 6312404 | 0.3 | soil | 3 | lt br | silt | - | abnt | - | granular | trace | 12-Jul-11 | 130 | - |
| 91761 | 2011 | MC | 541453 | 6312377 | 0.4 | soil | 2 | lt br | f.g. | - | abnt | - | granular | mod | 12-Jul-11 | 110 | - |
| 91762 | 2011 | MC | 541411 | 6312354 | 0.5 | soil | 2 | lt br | f.g. | - | abnt | - | granular | mod | 12-Jul-11 | 120 | - |
| 91763 | 2011 | MC | 541371 | 6312331 | 0.25 | soil | 3 | lt br | silt | - | abnt | - | granular | mod | 12-Jul-11 | 115 | - |
| 91764 | 2011 | MC | 541326 | 6312304 | 0.3 | soil | 4 | lt br | silt | - | abnt | - | granular | trace | 12-Jul-11 | 100 | - |
| 91765 | 2011 | MC | 541283 | 6312275 | 0.3 | soil | 3 | lt br | - | - | abnt | - | grit | mod | 12-Jul-11 | 140 | - |
| 91766 | 2011 | MC | 540935 | 6312075 | 0.55 | soil | 2 | og-br | silt | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 200 | - |
| 91767 | 2011 | MC | 540891 | 6312055 | 0.4 | soil | 4 | br | silty sand | - | abnt | - | - | abdt | 12-Jul-11 | 250 | - |
| 91768 | 2011 | MC | 540850 | 6312027 | - | soil | 2 | og-br | f.g. | - | abnt | - | granular | trace | 12-Jul-11 | 275 | - |
| 91769 | 2011 | MC | 540810 | 6312002 | 0.3 | soil | 3 | br | f.g. | - | abnt | - | granular | abdt | 12-Jul-11 | 250 | - |
| 91770 | 2011 | MC | 540762 | 6311975 | 0.3 | soil | 3 | lt br | silt | - | abnt | - | - | trace | 12-Jul-11 | 215 | - |
| 91771 | 2011 | MC | 540725 | 6311948 | 0.2 | soil | 2 | dk br | f.g. | - | abnt | - | granular | abdt | 12-Jul-11 | 215 | - |
| 91772 | 2011 | MC | 540678 | 6311925 | 0.25 | soil | 2 | br | f.g. | - | abnt | - | grit-granular | abdt | 12-Jul-11 | 200 | - |
| 91773 | 2011 | MC | 540636 | 6311901 | 0.5 | soil | 2 | og-br | m.g. | - | abnt | - | granular | trace | 12-Jul-11 | 280 | - |
| 91774 | 2011 | MC | 540589 | 6311875 | 0.3 | soil | 4 | lt br | f.g. | - | abnt | - | granular | mod | 12-Jul-11 | 190 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------------|-------------------|---------|-----------------------|--------------------|----------------|----------|-----------|-----|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91775 | 2011 | MC | 540507 | 6311827 | - | soil | 2 | og-br | - | - | abnt | ang | pebble | abdt | 12-Jul-11 | 300 | - |
| 91776 | 2011 | MC | 540462 | 6311802 | 0.3 | soil | 3 | og-br | silty sand | - | abnt | - | - | trace | 12-Jul-11 | 225 | - |
| 91777 | 2011 | MC | 540419 | 6311777 | 0.4 | soil | 3 | og-br | silty sand | - | abnt | - | - | trace | 12-Jul-11 | 225 | - |
| 91778 | 2011 | MC | 540375 | 6311751 | 0.3 | soil | 2 | br | silty sand | - | abnt | - | - | trace | 12-Jul-11 | 230 | - |
| 91779 | 2011 | MC | 540331 | 6311725 | 0.25 | soil | 3 | br | silty sand | - | abnt | - | - | trace | 12-Jul-11 | 150 | - |
| 91780 | 2011 | MC | 540288 | 6311700 | - | soil | 2 | dk br | - | - | abnt | ang | pebble | abdt | 12-Jul-11 | 125 | - |
| 91781 | 2011 | MC | 541053 | 6311680 | 0.25 | soil | 4 | med br | silty sand | - | abnt | sub-ang to sub-rnd | up to 2 | trace | 13-Jul-11 | 225 | - |
| 91782 | 2011 | MC | 541139 | 6311731 | 0.35 | soil | 2 | med br | silty clay | - | abnt | sub-ang to oblate | 0.5-3 | mod | 13-Jul-11 | 240 | - |
| 91783 | 2011 | MC | 541181 | 6311757 | 0.3 | soil | 4 | gy-br | silty clay | - | abnt | sub-ang | up to 1 | abdt | 13-Jul-11 | 260 | - |
| 91784 | 2011 | MC | 541225 | 6311782 | 0.2 | soil | 2 | gy-br | f.g. sand | - | abnt | sub-rnd to sub-ang | 0.3-0.4 | mod | 13-Jul-11 | 255 | - |
| 91785 | 2011 | MC | 541266 | 6311804 | 0.2 | soil | 3 | med br | silty clay | - | abnt | - | - | mod | 13-Jul-11 | 300 | - |
| 91786 | 2011 | MC | 541312 | 6311831 | 0.25 | soil | 2 | med to dk br | silty clay | - | abnt | sub-ang to ang | 0.5-2 | mod | 13-Jul-11 | 340 | - |
| 91787 | 2011 | MC | 541355 | 6311857 | 0.15 | soil | 1 | med to dk br | silty sand | - | abnt | sub-rnd to ang | pebble | trace | 13-Jul-11 | 550 | - |
| 91788 | 2011 | MC | 541397 | 6311882 | 0.15 | soil | 3 | med to dk br | silty sand | - | abnt | sub-ang to ang | 3-4 | mod | 13-Jul-11 | 140 | - |
| 91789 | 2011 | MC | 541483 | 6311931 | 0.2 | soil | 2 | med gy-br | silty sand | - | abnt | ang | up to 1 | trace | 13-Jul-11 | 130 | - |
| 91790 | 2011 | MC | 541527 | 6311956 | 0.3 | soil | 2 | gy-br | silty clay | - | abnt | ang to oblate | pebble | mod | 13-Jul-11 | 130 | - |
| 91791 | 2011 | MC | 541570 | 6311981 | 0.5 | soil | 3 | gy-br | silty sand | - | abnt | sub-rnd to sub-ang | cobble | mod | 13-Jul-11 | 150 | - |
| 91792 | 2011 | MC | 541613 | 6312007 | 0.3 | soil | 2 | dk br | clay | - | abnt | - | - | abdt | 13-Jul-11 | 125 | - |
| 91793 | 2011 | MC | 541658 | 6312032 | 0.3 | soil | 2 | dk br | silty sand | - | abnt | ang | pebble | mod | 13-Jul-11 | 135 | - |
| 91794 | 2011 | MC | 541701 | 6312057 | 0.25 | soil | 2 | dk gy-br | silt | - | abnt | - | - | mod | 13-Jul-11 | 140 | compact! |
| 91795 | 2011 | MC | 541739 | 6312082 | 0.3 | soil | 2 | dk r-br | silty sand | - | abnt | sub-ang to ang | gravel-cobble | mod | 13-Jul-11 | 140 | - |
| 91796 | 2011 | MC | 541787 | 6312108 | 0.2 | soil | 2 | dk br-gy | silty sand | - | abnt | ang to sub-rnd | gravel | mod | 13-Jul-11 | 150 | - |
| 91797 | 2011 | MC | 541887 | 6311937 | 0.3 | soil | 2 | med to dk og-br | silty sand | - | abnt | ang to sub-ang | pebble-grave | mod | 13-Jul-11 | 140 | - |
| 91798 | 2011 | MC | 541844 | 6311910 | 0.2 | soil | 2 | dk og-br | silty sand | - | abnt | ang | gravel | abdt | 13-Jul-11 | 110 | - |
| 91799 | 2011 | MC | 541800 | 6311884 | 0.3 | soil | 2.5 | dk br | silty clay | - | abnt | ang | pebble | mod-abdt | 13-Jul-11 | 225 | - |
| 91800 | 2011 | MC | 541757 | 6311860 | 0.15 | soil | 1 | med og-br | silty sand | - | abnt | - | gravel | trace | 13-Jul-11 | 150 | - |
| 91801 | 2011 | MC | 541714 | 6311835 | 0.15 | soil | 2 | med br | silty sand | - | abnt | ang | pebble | mod | 13-Jul-11 | 160 | - |
| 91802 | 2011 | MC | 541671 | 6311808 | 0.3 | soil | 2 | lt br-og | silty sand | - | abnt | sub-ang to sub-rnd | pebble | none | 13-Jul-11 | 140 | - |
| 91803 | 2011 | MC | 541626 | 6311784 | 0.3 | soil | 2 | dk br-gy | silty clay | - | abnt | sub-rnd | gravel | - | 13-Jul-11 | 115 | - |
| 91804 | 2011 | MC | 541539 | 6311732 | - | soil | 3 | lt br-gy | silt | - | abnt | - | granule | mod | 13-Jul-11 | 140 | Some 400-450cps boulders beside soil hole |
| 91805 | 2011 | MC | 541498 | 6311709 | 0.3 | soil | 3 | med gy-br | silt | - | abnt | - | granule | mod | 13-Jul-11 | 180 | - |
| 91806 | 2011 | MC | 541454 | 6311685 | 0.2 | soil | 3 | med gy-br | silt | - | abnt | sub-ang | gravel | mod | 13-Jul-11 | 275 | - |
| 91807 | 2011 | MC | 541413 | 6311659 | 0.35 | soil | 1.5 | rusty og-br | silt | - | abnt | sub-ang to ang | pebble-cobble | mod | 13-Jul-11 | 375 | By drill pad |
| 91808 | 2011 | MC | 541366 | 6311633 | 0.3 | soil | 2 | dk br-blk | silt | - | abnt | - | granule | abdt | 13-Jul-11 | 600 | - |
| 91809 | 2011 | MC | 541326 | 6311610 | 0.2 | soil | 3 | dk br-gy | silty sand | - | abnt | ang | granule-pebble | abdt | 13-Jul-11 | 165 | By river bank |
| 91810 | 2011 | MC | 541281 | 6311582 | 0.4 | soil | 2 | dk og-br | silt | - | abnt | sub-ang | cobble | none | 13-Jul-11 | 125 | - |
| 91811 | 2011 | MC | 541239 | 6311556 | 0.4 | soil | 2 | dk og-br | f.g. to m.g. sand | - | abnt | - | granule | mod | 13-Jul-11 | 200 | - |
| 91812 | 2011 | MC | 541151 | 6311508 | 0.4 | soil | 2 | dk og-br | silt | - | abnt | - | granule | abdt | 13-Jul-11 | 190 | - |
| 91813 | 2011 | MC | 541108 | 6311486 | 0.5 | soil | 3 | dk gy-br | silty clay | - | abnt | - | granule | mod | 13-Jul-11 | 170 | - |
| 91814 | 2011 | MC | 541063 | 6311456 | 0.2 | soil | 2 | dk br | silty sand | - | abnt | - | granule | abdt | 13-Jul-11 | 120 | - |
| 91815 | 2011 | MC | 541629 | 6311092 | 0.25 | soil | 2 | med br | silty sand | - | abnt | ang | 1-3 | mod | 26-Jul-11 | 220 | - |
| 91816 | 2011 | MC | 541583 | 6311063 | 0.1 | soil | 2 | med br | silty sand | - | abnt | ang | 1-5 | mod | 26-Jul-11 | 110 | - |
| 91817 | 2011 | MC | 541540 | 6311038 | 0.15 | soil | 2 | lt br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 230 | - |
| 91818 | 2011 | MC | 541496 | 6311015 | 0.2 | soil | 2 | gy-br | silty clay | - | abnt | - | 3-8 | mod | 26-Jul-11 | 120 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|------------|----------|-----------------------|--------------------|--------------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91819 | 2011 | MC | 541454 | 6310988 | 0.3 | soil | 2 | med br | silty sand | - | abnt | - | 2-8 | none | 26-Jul-11 | 170 | - |
| 91820 | 2011 | MC | 541410 | 6310964 | 0.3 | soil | 2 | lt br | silty sand | - | abnt | ang | 1-5 | mod | 26-Jul-11 | 150 | - |
| 91821 | 2011 | MC | 541366 | 6310941 | 0.1 | soil | 2 | med br | silty sand | - | abnt | sub-ang | 1-3 | abdt | 26-Jul-11 | 210 | - |
| 91822 | 2011 | MC | 541324 | 6310915 | 0.15 | soil | 2 | gy-br | clay | - | abnt | - | - | none | 26-Jul-11 | 210 | - |
| 91823 | 2011 | MC | 541278 | 6310887 | 0.3 | soil | 2 | br-gy | silty clay | - | abnt | - | - | none | 26-Jul-11 | 180 | - |
| 91824 | 2011 | MC | 541237 | 6310859 | 0.15 | soil | 2 | med br | silty sand | - | abnt | sub-ang | 1-3 | abdt | 26-Jul-11 | 320 | - |
| 91825 | 2011 | MC | 541193 | 6310839 | 0.45 | soil | 5 | gy-br | clay | - | abnt | - | - | mod | 26-Jul-11 | 130 | - |
| 91826 | 2011 | MC | 541903 | 6312406 | 0.35 | soil | 2 | med br | grit | - | abnt | - | - | mod | 12-Jul-11 | 80 | - |
| 91827 | 2011 | MC | 541858 | 6312381 | 0.3 | soil | 2 | med br | - | - | abnt | ang | pebble | trace | 12-Jul-11 | 65 | - |
| 91828 | 2011 | MC | 541815 | 6312356 | 0.25 | soil | 2 | med br | - | - | abnt | ang | pebble | abdt | 12-Jul-11 | 90 | - |
| 91829 | 2011 | MC | 541771 | 6312333 | 0.3 | soil | 3 | dk br | - | - | abnt | ang | pebble | trace | 12-Jul-11 | 90 | - |
| 91830 | 2011 | MC | 541728 | 6312307 | 0.3 | soil | 4 | med br | - | - | abnt | ang | pebble | mod | 12-Jul-11 | 75 | - |
| 91831 | 2011 | MC | 541642 | 6312258 | 0.35 | soil | 3 | og-br | - | - | abnt | sub-ang to sub-rnd | pebble | mod | 12-Jul-11 | 100 | - |
| 91832 | 2011 | MC | 541599 | 6312231 | 0.35 | soil | 3 | med br | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 130 | - |
| 91833 | 2011 | MC | 541555 | 6312203 | 0.25 | soil | 1 | lt br | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 130 | - |
| 91834 | 2011 | MC | 541514 | 6312181 | 0.35 | soil | 4 | gy-blk | - | - | abnt | - | - | abdt | 12-Jul-11 | 70 | - |
| 91835 | 2011 | MC | 541382 | 6312104 | 0.4 | soil | 3 | dk gy | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 60 | - |
| 91836 | 2011 | MC | 541254 | 6312030 | 0.25 | soil | 3 | og-br | - | - | abnt | ang to sub-ang | pebble | mod | 12-Jul-11 | 110 | - |
| 91837 | 2011 | MC | 541211 | 6312005 | 0.4 | soil | 2 | og-br | - | - | abnt | ang | pebble | trace | 12-Jul-11 | 230 | - |
| 91838 | 2011 | MC | 541168 | 6311979 | 0.35 | soil | 2 | og-br | - | - | abnt | ang to sub-ang | pebble-cobbl | trace | 12-Jul-11 | 280 | - |
| 91839 | 2011 | MC | 541117 | 6311949 | 0.35 | soil | 1 | med br | - | - | abnt | sub-ang to sub-rnd | pebble-cobbl | trace | 12-Jul-11 | 480 | - |
| 91840 | 2011 | MC | 541083 | 6311931 | 0.4 | soil | 1 | og-br | - | - | abnt | sub-ang | pebble | mod | 12-Jul-11 | 350 | - |
| 91841 | 2011 | MC | 541037 | 6311904 | 0.4 | soil | 2 | og-br | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 340 | - |
| 91842 | 2011 | MC | 540994 | 6311877 | 0.25 | soil | 1 | med br | - | - | abnt | - | - | abdt | 12-Jul-11 | 325 | - |
| 91843 | 2011 | MC | 540949 | 6311853 | 0.3 | soil | 2 | og-br | - | - | abnt | ang | pebble | abdt | 12-Jul-11 | 340 | - |
| 91844 | 2011 | MC | 540908 | 6311829 | 0.2 | soil | 2 | dk br | - | - | abnt | ang | pebble | abdt | 12-Jul-11 | 215 | - |
| 91845 | 2011 | MC | 540737 | 6311728 | 0.3 | soil | 3 | lt br-gy | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 235 | - |
| 91846 | 2011 | MC | 540692 | 6311702 | 0.45 | soil | 3 | gy-blk | - | - | abnt | sub-rnd | pebble | abdt | 12-Jul-11 | 190 | - |
| 91847 | 2011 | MC | 540649 | 6311678 | 0.3 | soil | 2 | og-br | - | - | abnt | rnd | pebble | mod | 12-Jul-11 | 225 | - |
| 91848 | 2011 | MC | 540606 | 6311652 | 0.4 | soil | 4 | lt br | - | - | abnt | ang | pebble | mod | 12-Jul-11 | 105 | - |
| 91849 | 2011 | MC | 540563 | 6311627 | 0.45 | soil | 1 | dk gy | - | - | abnt | ang | pebble-cobbl | mod | 12-Jul-11 | 110 | - |
| 91850 | 2011 | MC | 540793 | 6311530 | 0.4 | soil | 2 | og-br | - | - | abnt | ang | pebble | trace | 12-Jul-11 | 130 | - |
| 91851 | 2011 | MC | 540835 | 6311555 | 0.3 | soil | 3 | lt br | - | - | abnt | sub-ang | pebble | trace | 12-Jul-11 | 215 | - |
| 91852 | 2011 | MC | 540880 | 6311583 | 0.3 | soil | 4 | og-br | - | - | abnt | - | - | mod | 12-Jul-11 | 200 | - |
| 91853 | 2011 | MC | 540921 | 6311607 | 0.4 | soil | 3 | lt br | - | - | abnt | sub-rnd | pebble | mod | 12-Jul-11 | 200 | - |
| 91854 | 2011 | MC | 540967 | 6311630 | 0.35 | soil | 4 | med br | - | - | abnt | ang to sub-rnd | pebble-cobbl | mod | 12-Jul-11 | 160 | - |
| 91855 | 2011 | MC | 542117 | 6311838 | 0.4 | soil | 5 | blk | silty sand | moderate | abnt | sub-ang | 1 | mod | 19-Jul-11 | 60 | - |
| 91856 | 2011 | MC | 542074 | 6311812 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 90 | - |
| 91857 | 2011 | MC | 542028 | 6311787 | 0.3 | soil | 3 | br | silty sand | poor | abnt | ang | 1-3 | trace | 19-Jul-11 | 100 | - |
| 91858 | 2011 | MC | 541988 | 6311764 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 110 | - |
| 91859 | 2011 | MC | 541947 | 6311735 | 0.4 | soil | 3 | gy-br | silty sand | poor | abnt | ang | up to 1 | trace | 19-Jul-11 | 90 | - |
| 91860 | 2011 | MC | 541899 | 6311711 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | ang | up to 1 | trace | 19-Jul-11 | 200 | - |
| 91861 | 2011 | MC | 541860 | 6311686 | 0.2 | soil | 3 | og-br | silty sand | poor | abnt | ang | 1-3 | trace | 19-Jul-11 | 140 | - |
| 91862 | 2011 | MC | 541815 | 6311663 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 150 | - |
| 91863 | 2011 | MC | 541772 | 6311638 | 0.15 | soil | 3 | og-br | silty sand | poor | abnt | sub-rnd to rnd | 1-8 | trace | 19-Jul-11 | 130 | - |
| 91864 | 2011 | MC | 541729 | 6311612 | 0.3 | soil | 2 | gy | clay | well | abnt | - | - | trace | 19-Jul-11 | 100 | - |
| 91865 | 2011 | MC | 541686 | 6311588 | 0.25 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | - | trace | 19-Jul-11 | 130 | - |
| 91866 | 2011 | MC | 541640 | 6311562 | 0.25 | soil | 3 | og-br | silty sand | poor | abnt | ang | up to 1 | trace | 19-Jul-11 | 250 | - |
| 91867 | 2011 | MC | 541602 | 6311534 | 0.3 | soil | 4 | br | silty clay | moderate | abnt | sub-ang | 2-5 | trace | 19-Jul-11 | 200 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|------------------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91868 | 2011 | MC | 541557 | 6311512 | 0.3 | soil | 3 | br | silty clay | poor | abnt | sub-ang | 1-15 | trace | 19-Jul-11 | 220 | - |
| 91869 | 2011 | MC | 541512 | 6311488 | 0.25 | soil | 3 | br | silty clay | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 130 | - |
| 91870 | 2011 | MC | 541471 | 6311461 | 0.25 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 19-Jul-11 | 180 | - |
| 91871 | 2011 | MC | 541431 | 6311435 | 0.3 | soil | 4 | og-br | silty sand | poor | abnt | sub-ang | 4-10 | trace | 19-Jul-11 | 120 | - |
| 91872 | 2011 | MC | 541387 | 6311405 | 0.15 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 4-10 | trace | 19-Jul-11 | 90 | - |
| 91873 | 2011 | MC | 541338 | 6311387 | 0.3 | soil | 4 | br | silty clay | poor | abnt | sub-ang | 3-8 | trace | 19-Jul-11 | 160 | - |
| 91874 | 2011 | MC | 541297 | 6311360 | 0.2 | soil | 3 | br | silty clay | moderate | abnt | sub-ang | 1 | trace | 19-Jul-11 | 200 | - |
| 91875 | 2011 | MC | 541251 | 6311333 | 0.35 | soil | 4 | br | clay | well | abnt | sub-ang | 1-8 | trace | 19-Jul-11 | 130 | - |
| 91876 | 2011 | MC | 541209 | 6311309 | 0.25 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 19-Jul-11 | 110 | - |
| 91877 | 2011 | MC | 541167 | 6311285 | 0.25 | soil | 3 | br | silty sand | poor | abnt | sub-ang | 1 | trace | 19-Jul-11 | 160 | - |
| 91878 | 2011 | MC | 541122 | 6311261 | 0.25 | soil | 4 | br | silty clay | poor | abnt | sub-ang | 1 | trace | 19-Jul-11 | 210 | - |
| 91879 | 2011 | MC | 540908 | 6311134 | 0.15 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 190 | - |
| 91880 | 2011 | MC | 540863 | 6311110 | 0.1 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 19-Jul-11 | 210 | - |
| 91881 | 2011 | MC | 540820 | 6311086 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | abdt | 19-Jul-11 | 280 | - |
| 91882 | 2011 | MC | 540777 | 6311063 | 0.35 | soil | 3 | r-br | silty sand | well | abnt | - | - | none | 19-Jul-11 | 150 | - |
| 91883 | 2011 | MC | 540733 | 6311031 | 0.25 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 3-10 | none | 19-Jul-11 | 110 | - |
| 91884 | 2011 | MC | 540691 | 6311005 | 0.2 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 19-Jul-11 | 110 | - |
| 91885 | 2011 | MC | 540648 | 6310982 | 0.3 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 19-Jul-11 | 100 | - |
| 91886 | 2011 | MC | 540603 | 6310959 | 0.15 | soil | 3 | dk br | silty sand | poor | abnt | sub-ang | 1-10 | mod | 19-Jul-11 | 70 | - |
| 91887 | 2011 | MC | 540876 | 6310885 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 2 | trace | 22-Jul-11 | 130 | - |
| 91888 | 2011 | MC | 540921 | 6310910 | 0.3 | soil | 3 | lt br | clay | well | abnt | - | - | trace | 22-Jul-11 | 115 | - |
| 91889 | 2011 | MC | 540964 | 6310937 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | none | 22-Jul-11 | 200 | - |
| 91890 | 2011 | MC | 541007 | 6310961 | 0.35 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | mod | 22-Jul-11 | 220 | - |
| 91891 | 2011 | MC | 541050 | 6310986 | 1 | soil | 5 | dk br | silty sand | well | abnt | - | - | abdt | 22-Jul-11 | 50 | - |
| 91892 | 2011 | MC | 541094 | 6311011 | 0.6 | soil | 4 | dk br | silty sand | well | abnt | - | - | abdt | 22-Jul-11 | 450 | - |
| 91893 | 2011 | MC | 541137 | 6311036 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-5 | trace | 22-Jul-11 | 180 | - |
| 91894 | 2011 | MC | 541180 | 6311063 | 0.2 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 22-Jul-11 | 190 | - |
| 91895 | 2011 | MC | 541223 | 6311087 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1 | trace | 22-Jul-11 | 160 | - |
| 91896 | 2011 | MC | 541267 | 6311112 | 0.35 | soil | 5 | lt br | clay | well | abnt | - | - | trace | 22-Jul-11 | 100 | - |
| 91897 | 2011 | MC | 541309 | 6311137 | 0.25 | soil | 3 | lt gy | clay | poor | abnt | sub-ang | 1-10 | trace | 22-Jul-11 | 230 | - |
| 91898 | 2011 | MC | 541353 | 6311162 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 22-Jul-11 | 240 | - |
| 91899 | 2011 | MC | 541396 | 6311187 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 22-Jul-11 | 105 | - |
| 91900 | 2011 | MC | 541439 | 6311213 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang to oblate | 1-2 | mod | 22-Jul-11 | 240 | - |
| 91901 | 2011 | MC | 541484 | 6311238 | 0.35 | soil | 3 | br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 170 | - |
| 91902 | 2011 | MC | 541524 | 6311263 | 0.35 | soil | 3 | br | clayey sand (<5% clay) | well | abnt | - | - | trace | 22-Jul-11 | 300 | - |
| 91903 | 2011 | MC | 541572 | 6311281 | 0.4 | soil | 3 | lt br | clay | well | abnt | - | - | abdt | 22-Jul-11 | 105 | - |
| 91904 | 2011 | MC | 541611 | 6311314 | 0.55 | soil | 5 | dk br | silty sand | well | abnt | - | - | abdt | 22-Jul-11 | 60 | - |
| 91905 | 2011 | MC | 541654 | 6311337 | 0.3 | soil | 4 | gy-br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-5 | trace | 22-Jul-11 | 170 | - |
| 91906 | 2011 | MC | 541698 | 6311362 | 0.35 | soil | 5 | gy-br | silt | well | abnt | - | - | trace | 22-Jul-11 | 120 | - |
| 91907 | 2011 | MC | 541741 | 6311388 | 0.4 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | 2 | trace | 22-Jul-11 | 150 | - |
| 91908 | 2011 | MC | 541785 | 6311414 | 0.5 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 22-Jul-11 | 180 | - |
| 91909 | 2011 | MC | 541828 | 6311437 | 0.2 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 200 | - |
| 91910 | 2011 | MC | 541872 | 6311464 | 0.3 | soil | 3 | med br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-2 | trace | 22-Jul-11 | 140 | - |
| 91911 | 2011 | MC | 541915 | 6311490 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang to oblate | 1-3 | mod | 22-Jul-11 | 260 | - |
| 91912 | 2011 | MC | 541957 | 6311514 | 0.3 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | 3 | trace | 22-Jul-11 | 185 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|---------|------------------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91913 | 2011 | MC | 542000 | 6311539 | 0.35 | soil | 3 | lt br | clayey sand (<5% clay) | well | abnt | - | - | trace | 22-Jul-11 | 170 | - |
| 91914 | 2011 | MC | 542045 | 6311565 | 0.3 | soil | 2 | dk r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 22-Jul-11 | 100 | - |
| 91915 | 2011 | MC | 542087 | 6311589 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 22-Jul-11 | 90 | - |
| 91916 | 2011 | MC | 542131 | 6311614 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 22-Jul-11 | 95 | - |
| 91917 | 2011 | MC | 542174 | 6311639 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 90 | - |
| 91918 | 2011 | MC | 542216 | 6311664 | 0.4 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | 1-5 | trace | 22-Jul-11 | 95 | - |
| 91919 | 2011 | MC | 542261 | 6311691 | 0.25 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | 1-18 | trace | 22-Jul-11 | 90 | - |
| 91920 | 2011 | MC | 542404 | 6311543 | 0.3 | soil | 3 | gy-br | clay | moderate | abnt | sub-ang | 10 | trace | 22-Jul-11 | 70 | - |
| 91921 | 2011 | MC | 542362 | 6311517 | 0.4 | soil | 4 | gy | clayey sand (<5% clay) | moderate | abnt | sub-ang | 2 | trace | 22-Jul-11 | 80 | - |
| 91922 | 2011 | MC | 542319 | 6311492 | 0.3 | soil | 2 | dk r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 22-Jul-11 | 110 | - |
| 91923 | 2011 | MC | 542274 | 6311468 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 80 | - |
| 91924 | 2011 | MC | 542230 | 6311440 | 0.2 | soil | 3 | br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 120 | - |
| 91925 | 2011 | MC | 542189 | 6311417 | 0.3 | soil | 3 | lt br | clay | poor | abnt | sub-ang | 1-2 | trace | 22-Jul-11 | 95 | - |
| 91926 | 2011 | MC | 542145 | 6311391 | 0.4 | soil | 5 | lt br | sand | poor | abnt | sub-ang | 1-3 | trace | 22-Jul-11 | 95 | - |
| 91927 | 2011 | MC | 542102 | 6311366 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 22-Jul-11 | 150 | - |
| 91928 | 2011 | MC | 542059 | 6311342 | 0.25 | soil | 2 | r-br | silty sand | well | abnt | - | - | trace | 22-Jul-11 | 275 | - |
| 91929 | 2011 | MC | 542016 | 6311316 | 0.3 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang to oblate | 1-8 | trace | 22-Jul-11 | 260 | - |
| 91930 | 2011 | MC | 541973 | 6311291 | 0.3 | soil | 3 | lt br | clayey sand | well | abnt | - | - | trace | 22-Jul-11 | 180 | - |
| 91931 | 2011 | MC | 541928 | 6311266 | 0.45 | soil | 2 | lt br | silt | well | abnt | - | - | none | 22-Jul-11 | 140 | - |
| 91932 | 2011 | MC | 541887 | 6311241 | 0.35 | soil | 3 | dk br | silty sand | well | abnt | sub-ang | 1 | mod | 22-Jul-11 | 350 | - |
| 91933 | 2011 | MC | 541842 | 6311215 | 0.25 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang to oblate | 1-10 | trace | 22-Jul-11 | 220 | - |
| 91934 | 2011 | MC | 541800 | 6311190 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 22-Jul-11 | 130 | - |
| 91935 | 2011 | MC | 541756 | 6311166 | 0.25 | soil | 3 | lt br | clayey sand (<5% clay) | poor | abnt | sub-ang | up to 1 | trace | 22-Jul-11 | 120 | - |
| 91936 | 2011 | MC | 541714 | 6311140 | 0.25 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 22-Jul-11 | 120 | - |
| 91937 | 2011 | MC | 541670 | 6311115 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 22-Jul-11 | 120 | - |
| 91938 | 2011 | MC | 541153 | 6310810 | 0.15 | soil | 2 | med br | silty sand | - | abnt | ang | 3-15 | abdt | 26-Jul-11 | 120 | - |
| 91939 | 2011 | MC | 541108 | 6310788 | 0.4 | soil | 2 | lt br | silty clay | - | abnt | - | - | mod | 26-Jul-11 | 180 | - |
| 91940 | 2011 | MC | 541062 | 6310763 | 0.25 | soil | 2 | med br | silty clay | - | abnt | - | - | mod | 26-Jul-11 | 240 | - |
| 91941 | 2011 | MC | 541020 | 6310739 | 0.45 | soil | 2 | med br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 150 | - |
| 91942 | 2011 | MC | 540978 | 6310714 | 0.4 | soil | 3 | gy-blk | silty clay | - | abnt | - | - | abdt | 26-Jul-11 | 160 | - |
| 91943 | 2011 | MC | 540931 | 6310688 | 0.35 | soil | 4 | dk br | silt | - | abnt | - | - | abdt | 26-Jul-11 | 80 | - |
| 91944 | 2011 | MC | 540890 | 6310663 | 0.2 | soil | 3 | med br | silty clay | - | abnt | - | - | abdt | 26-Jul-11 | 120 | - |
| 91945 | 2011 | MC | 540848 | 6310639 | 0.2 | soil | 4 | dk br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 100 | - |
| 91946 | 2011 | MC | 540805 | 6310611 | 0.4 | soil | 2 | gy-br | silty sand | - | abnt | sub-rnd | 1-15 | mod | 26-Jul-11 | 120 | - |
| 91947 | 2011 | MC | 540764 | 6310586 | 0.45 | soil | 2 | med br | silty sand | - | abnt | - | - | none | 26-Jul-11 | 100 | - |
| 91948 | 2011 | MC | 540719 | 6310562 | 0.5 | soil | 2 | med br | silty sand | - | abnt | - | - | none | 26-Jul-11 | 100 | - |
| 91949 | 2011 | MC | 540675 | 6310537 | 0.5 | soil | 2 | dk br | silty sand | - | abnt | sub-ang | 1-15 | none | 26-Jul-11 | 120 | - |
| 91950 | 2011 | MC | 540635 | 6310513 | 0.4 | soil | 3 | gy-br | silty clay | - | abnt | sub-ang | 1-4 | mod | 26-Jul-11 | 120 | - |
| 91951 | 2011 | MC | 541424 | 6310739 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 27-Jul-11 | 120 | - |
| 91952 | 2011 | MC | 541468 | 6310766 | 0.35 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 100 | - |
| 91953 | 2011 | MC | 541509 | 6310791 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 27-Jul-11 | 125 | - |
| 91954 | 2011 | MC | 541553 | 6310816 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 130 | - |
| 91955 | 2011 | MC | 541598 | 6310842 | 0.3 | soil | 5 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1 | trace | 27-Jul-11 | 95 | - |
| 91956 | 2011 | MC | 541686 | 6310894 | 1 | soil | 5 | dk br | silty sand | well | abnt | - | - | abdt | 27-Jul-11 | 55 | - |
| 91957 | 2011 | MC | 541725 | 6310918 | 0.25 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 120 | - |
| 91958 | 2011 | MC | 541769 | 6310942 | 0.2 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 27-Jul-11 | 105 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|---------|-------------------|----------|-----------------------|--------------------|-----------|----------|-----------|------|-------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 91959 | 2011 | MC | 541814 | 6310967 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 27-Jul-11 | 115 | - |
| 91960 | 2011 | MC | 541857 | 6310993 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 27-Jul-11 | 130 | - |
| 91961 | 2011 | MC | 541900 | 6311018 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 2 | trace | 27-Jul-11 | 100 | - |
| 91962 | 2011 | MC | 541943 | 6311043 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 110 | - |
| 91963 | 2011 | MC | 541987 | 6311067 | 0.35 | soil | 2 | dk r-br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 27-Jul-11 | 240 | - |
| 91964 | 2011 | MC | 542029 | 6311094 | 0.3 | soil | 2 | med br | silt | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 130 | - |
| 91965 | 2011 | MC | 542074 | 6311116 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 27-Jul-11 | 430 | - |
| 91966 | 2011 | MC | 542115 | 6311142 | 0.6 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 160 | - |
| 91967 | 2011 | MC | 542159 | 6311167 | 0.25 | soil | 3 | lt br | silty clay | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 100 | - |
| 91968 | 2011 | MC | 542201 | 6311192 | 0.3 | soil | 5 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 140 | - |
| 91969 | 2011 | MC | 542245 | 6311219 | 0.35 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 80 | - |
| 91970 | 2011 | MC | 542375 | 6311294 | 0.35 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 100 | - |
| 91971 | 2011 | MC | 542419 | 6311318 | 0.3 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 135 | - |
| 91972 | 2011 | MC | 542461 | 6311343 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 85 | - |
| 91973 | 2011 | MC | 542603 | 6311196 | 0.45 | soil | 5 | gy-br | silty sand | poor | abnt | sub-ang | 1-12 | trace | 27-Jul-11 | 100 | - |
| 91974 | 2011 | MC | 542562 | 6311171 | 1 | soil | 5 | gy-br | silty sand | poor | abnt | sub-ang | 1-2 | mod | 27-Jul-11 | 50 | - |
| 91975 | 2011 | MC | 542519 | 6311146 | 1 | soil | 5 | dk br | silt | poor | abnt | sub-ang | 1-5 | mod | 27-Jul-11 | 70 | - |
| 91976 | 2011 | MC | 541223 | 6310393 | 0.4 | soil | 3 | med br | silty clay | - | abnt | - | - | trace | 28-Jul-11 | 120 | - |
| 91977 | 2011 | MC | 541179 | 6310367 | 0.3 | soil | 2 | med br | silt | - | abnt | - | - | abdt | 28-Jul-11 | 120 | - |
| 91978 | 2011 | MC | 541131 | 6310341 | 0.4 | soil | 2 | r-br | silty sand | - | abnt | rnd | 1-2 | none | 28-Jul-11 | 100 | - |
| 91979 | 2011 | MC | 541093 | 6310318 | 0.35 | soil | 2 | r-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 100 | - |
| 91980 | 2011 | MC | 540962 | 6310239 | 0.45 | soil | 2 | r-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 200 | - |
| 91981 | 2011 | MC | 540918 | 6310215 | 0.25 | soil | 3 | og-br | silty sand | - | abnt | - | - | abdt | 28-Jul-11 | 110 | - |
| 91982 | 2011 | MC | 540877 | 6310192 | 0.3 | soil | 3 | gy-br | silty clay | - | abnt | - | - | mod | 28-Jul-11 | 110 | - |
| 91983 | 2011 | MC | 540748 | 6310117 | 0.3 | soil | 2 | og-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 110 | - |
| 91984 | 2011 | MC | 540704 | 6310091 | 0.4 | soil | 2 | og-br | silty clay | - | abnt | - | - | abdt | 28-Jul-11 | 130 | - |
| 91985 | 2011 | MC | 540660 | 6310066 | 0.4 | soil | 2 | og-br | silty sand | - | abnt | sub-rnd | 1-3 | trace | 28-Jul-11 | 140 | - |
| 91986 | 2011 | MC | 540760 | 6309893 | 0.35 | soil | 2 | r-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 110 | - |
| 91987 | 2011 | MC | 540804 | 6309918 | 0.3 | soil | 2 | r-br | silty sand | - | abnt | ang | 8-12 | trace | 28-Jul-11 | 170 | - |
| 91988 | 2011 | MC | 540847 | 6309943 | 0.35 | soil | 3 | gy-br | clay | - | abnt | - | - | none | 28-Jul-11 | 110 | - |
| 91989 | 2011 | MC | 540933 | 6309993 | 0.3 | soil | 2 | og-br | silty sand | - | abnt | sub-ang | 1-2 | trace | 28-Jul-11 | 120 | - |
| 91990 | 2011 | MC | 540976 | 6310018 | 0.4 | soil | 2 | r-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 120 | - |
| 91991 | 2011 | MC | 541023 | 6310039 | 0.45 | soil | 2 | og-br | silty sand | - | abnt | sub-ang | 1-2 | trace | 28-Jul-11 | 140 | - |
| 91992 | 2011 | MC | 541061 | 6310067 | 0.4 | soil | 2 | r-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 140 | - |
| 91993 | 2011 | MC | 541107 | 6310093 | 0.4 | soil | 2 | og-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 140 | - |
| 91994 | 2011 | MC | 541151 | 6310120 | 0.3 | soil | 2 | r-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 110 | - |
| 91995 | 2011 | MC | 541194 | 6310144 | 0.4 | soil | 3 | og-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 80 | - |
| 91996 | 2011 | MC | 541322 | 6310219 | 0.35 | soil | 2 | og-br | silty sand | - | abnt | - | - | abdt | 28-Jul-11 | 110 | - |
| 91997 | 2011 | MC | 541364 | 6310241 | 0.35 | soil | 3 | og-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 130 | - |
| 91998 | 2011 | MC | 541453 | 6310295 | 0.45 | soil | 3 | gy-br | silty clay | - | abnt | - | - | mod | 28-Jul-11 | 120 | - |
| 91999 | 2011 | MC | 541494 | 6310320 | 0.3 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 31-Jul-11 | 110 | - |
| 92000 | 2011 | MC | 541537 | 6310345 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 90 | - |
| 92005 | 2011 | Off Grid | 535337 | 6312211 | 0.15 | soil | 3 | r-br | - | poor | abnt | sub-ang to sub-rnd | up to 1 | mod | 3-Aug-11 | 344 | - |
| 92006 | 2011 | Off Grid | 539051 | 6313047 | 0.4 | soil | 2 | dk br | silty sand | poor | abnt | sub-ang | 7 | - | 5-Aug-11 | 8700 | 15000 cps in hole |
| 92007 | 2011 | Off Grid | 534999 | 6312943 | 0.2 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang to oblate | up to 20 | - | 5-Aug-11 | 2600 | - |
| 92008 | 2011 | Off Grid | 537566 | 6312326 | 0.4 | soil | 2 | og-br | silt w/clay layer | well | abnt | - | - | none | 7-Aug-11 | 1400 | - |
| 92009 | 2011 | Off Grid | 537534 | 6312393 | 0.3 | soil | 2 | dk br | silty sand | poor | abnt | rnd | 2 | abdt | 7-Aug-11 | 700 | - |
| 92011 | 2011 | Off Grid | 535647 | 6314097 | 0.35 | soil | 2 | r-br | silty sand | poor | abnt | sub-rnd | up to 6 | - | 9-Aug-11 | 1200 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------------------------|----------|-----------------------|--------------------|-----------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92012 | 2011 | Off Grid | 539389 | 6310176 | 0.3 | soil | 2 | med br | - | poor | abnt | sub-ang | 2-6 | trace | 17-Aug-11 | 800 | - |
| 92013 | 2011 | Off Grid | 535392 | 6313210 | 0.3 | soil | 3 | med to dk br | silty clay | poor | abnt | sub-ang | 2-15 | mod | 21-Aug-11 | 3000 | - |
| 92014 | 2011 | Miranna | 539054 | 6311449 | 0.45 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 23-Sep-11 | 170 | - |
| 92015 | 2011 | Miranna | 539100 | 6311468 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 23-Sep-11 | 175 | - |
| 92016 | 2011 | Miranna | 539138 | 6311495 | 0.35 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 12 | mod | 23-Sep-11 | 240 | - |
| 92017 | 2011 | Miranna | 539181 | 6311516 | 0.3 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 20 | mod | 23-Sep-11 | 170 | - |
| 92018 | 2011 | Miranna | 539230 | 6311540 | 0.4 | soil | 3 | dk br | clayey silt | well | abnt | - | - | mod | 23-Sep-11 | 130 | - |
| 92019 | 2011 | Miranna | 539315 | 6311594 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 23-Sep-11 | 135 | - |
| 92020 | 2011 | Miranna | 539357 | 6311618 | 0.3 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 23-Sep-11 | 140 | - |
| 92021 | 2011 | Miranna | 539399 | 6311644 | 0.2 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 23-Sep-11 | 135 | - |
| 92022 | 2011 | Miranna | 539442 | 6311668 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 23-Sep-11 | 190 | - |
| 92023 | 2011 | Miranna | 539485 | 6311694 | 0.25 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 23-Sep-11 | 150 | - |
| 92024 | 2011 | Miranna | 539529 | 6311718 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 23-Sep-11 | 220 | - |
| 92025 | 2011 | Miranna | 539615 | 6311768 | 0.5 | soil | 3 | dk br | sandy silt | well | abnt | - | - | mod | 23-Sep-11 | 215 | - |
| 92126 | 2011 | MC | 541581 | 6310369 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-18 | trace | 31-Jul-11 | 120 | - |
| 92127 | 2011 | MC | 541624 | 6310395 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-12 | trace | 31-Jul-11 | 115 | - |
| 92128 | 2011 | MC | 541668 | 6310421 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 125 | - |
| 92129 | 2011 | MC | 541710 | 6310445 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 31-Jul-11 | 120 | - |
| 92130 | 2011 | MC | 541755 | 6310470 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang to sub-rnd | 1-5 | trace | 31-Jul-11 | 125 | - |
| 92131 | 2011 | MC | 541798 | 6310496 | 0.45 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang to ang | 1-10 | trace | 31-Jul-11 | 150 | - |
| 92132 | 2011 | MC | 541841 | 6310521 | 0.5 | soil | 5 | dk br | silt | well | abnt | - | - | abdt | 31-Jul-11 | 60 | - |
| 92133 | 2011 | MC | 541884 | 6310546 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 31-Jul-11 | 110 | - |
| 92134 | 2011 | MC | 541928 | 6310571 | 0.3 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to sub-rnd | 1-10 | trace | 31-Jul-11 | 100 | - |
| 92135 | 2011 | MC | 541971 | 6310596 | 0.4 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 100 | - |
| 92136 | 2011 | MC | 542013 | 6310622 | 0.4 | soil | 3 | lt br | clayey silt | well | abnt | - | - | trace | 31-Jul-11 | 150 | - |
| 92137 | 2011 | MC | 542058 | 6310646 | 0.35 | soil | 3 | lt br | clayey silt | well | abnt | - | - | mod | 31-Jul-11 | 85 | - |
| 92138 | 2011 | MC | 542186 | 6310722 | 0.4 | soil | 2 | dk br | silty sand | moderate | abnt | sub-ang | 1-2 | abdt | 31-Jul-11 | 170 | - |
| 92139 | 2011 | MC | 542231 | 6310748 | 0.75 | soil | 5 | med br | sandy silt | well | abnt | - | - | mod | 31-Jul-11 | 105 | - |
| 92140 | 2011 | MC | 542273 | 6310771 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 120 | - |
| 92141 | 2011 | MC | 542317 | 6310796 | 0.4 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang to oblate | 2 | abdt | 31-Jul-11 | 100 | - |
| 92142 | 2011 | MC | 542361 | 6310823 | 0.35 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 31-Jul-11 | 105 | - |
| 92143 | 2011 | MC | 542402 | 6310848 | 0.85 | soil | 5 | dk br | silt | poor | abnt | sub-ang to oblate | 1-3 | abdt | 31-Jul-11 | 60 | - |
| 92144 | 2011 | MC | 542446 | 6310872 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 31-Jul-11 | 105 | - |
| 92145 | 2011 | MC | 542487 | 6310895 | 0.75 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-3 | abdt | 31-Jul-11 | 75 | - |
| 92146 | 2011 | MC | 542533 | 6310923 | 0.3 | soil | 3 | dk br | silty sand | well | abnt | - | - | mod | 31-Jul-11 | 100 | - |
| 92147 | 2011 | MC | 542576 | 6310948 | 0.35 | soil | 4 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 31-Jul-11 | 65 | - |
| 92148 | 2011 | MC | 542618 | 6310973 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 31-Jul-11 | 70 | - |
| 92149 | 2011 | MC | 542663 | 6310998 | 0.25 | soil | 4 | lt br | clayey silt | well | abnt | - | - | trace | 31-Jul-11 | 80 | - |
| 92150 | 2011 | MC | 542707 | 6311024 | 1.1 | soil | 5 | dk br | silt | well | abnt | - | - | abdt | 31-Jul-11 | 75 | - |
| 92151 | 2011 | MC | 542806 | 6310851 | 0.25 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 31-Jul-11 | 130 | - |
| 92152 | 2011 | MC | 542763 | 6310826 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | ang | 1 | trace | 31-Jul-11 | 100 | - |
| 92153 | 2011 | MC | 542720 | 6310800 | 0.35 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 31-Jul-11 | 80 | - |
| 92154 | 2011 | MC | 542677 | 6310776 | 0.35 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 31-Jul-11 | 90 | - |
| 92155 | 2011 | MC | 542632 | 6310750 | 0.45 | soil | 3 | gy | clayey sand (<5% clay) | poor | abnt | sub-ang to oblate | 1-2 | abdt | 31-Jul-11 | 75 | - |
| 92156 | 2011 | MC | 542590 | 6310724 | 1.1 | soil | 5 | dk br | silty sand | well | abnt | - | - | abdt | 31-Jul-11 | 60 | - |
| 92157 | 2011 | MC | 542547 | 6310700 | 0.4 | soil | 3 | dk br | silty sand | well | abnt | - | - | mod | 31-Jul-11 | 70 | - |
| 92158 | 2011 | MC | 542503 | 6310675 | 0.65 | soil | 4 | lt br | clayey silt | well | abnt | - | - | trace | 31-Jul-11 | 75 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-------------|-------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92159 | 2011 | MC | 542461 | 6310650 | 0.25 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 2 | trace | 31-Jul-11 | 80 | - |
| 92160 | 2011 | MC | 542418 | 6310623 | 0.3 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 2 | trace | 31-Jul-11 | 90 | - |
| 92161 | 2011 | MC | 542374 | 6310599 | 0.5 | soil | 4 | lt br | clayey silt | well | abnt | - | - | trace | 31-Jul-11 | 80 | - |
| 92162 | 2011 | MC | 542332 | 6310574 | 0.4 | soil | 4 | gy-br | clayey silt | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 95 | - |
| 92163 | 2011 | MC | 542288 | 6310549 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 31-Jul-11 | 65 | - |
| 92164 | 2011 | MC | 542244 | 6310524 | 0.35 | soil | 3 | og-br | sandy silt | well | abnt | sub-ang | 1 | trace | 31-Jul-11 | 80 | - |
| 92165 | 2011 | MC | 542201 | 6310500 | 0.3 | soil | 3 | og-br | clayey silt | poor | abnt | sub-ang | 1-5 | trace | 31-Jul-11 | 100 | - |
| 92166 | 2011 | MC | 542158 | 6310474 | 0.3 | soil | 3 | og-br | clayey sand | well | abnt | sub-ang | 1 | trace | 31-Jul-11 | 90 | - |
| 92167 | 2011 | MC | 542115 | 6310449 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 31-Jul-11 | 100 | - |
| 92168 | 2011 | MC | 542071 | 6310423 | 0.35 | soil | 5 | dk br | silty sand | poor | abnt | sub-ang | 1-5 | mod | 31-Jul-11 | 105 | - |
| 92169 | 2011 | MC | 542028 | 6310399 | 0.35 | soil | 4 | og-br | silty sand | moderate | abnt | sub-rnd | 1-2 | trace | 31-Jul-11 | 105 | - |
| 92170 | 2011 | MC | 541984 | 6310373 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-18 | trace | 31-Jul-11 | 115 | - |
| 92171 | 2011 | MC | 541940 | 6310347 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-18 | trace | 31-Jul-11 | 115 | - |
| 92172 | 2011 | MC | 541897 | 6310322 | 0.3 | soil | 2 | og-br | c.g. sand | poor | abnt | sub-ang | 1 | trace | 31-Jul-11 | 110 | - |
| 92173 | 2011 | MC | 541855 | 6310298 | 0.4 | soil | 4 | dk br | silty sand | poor | abnt | sub-ang | 1-3 | mod | 31-Jul-11 | 60 | - |
| 92174 | 2011 | MC | 541811 | 6310273 | 0.3 | soil | 4 | lt br | clayey sand | poor | abnt | sub-ang | 1-3 | trace | 31-Jul-11 | 100 | - |
| 92175 | 2011 | MC | 541770 | 6310246 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 31-Jul-11 | 100 | - |
| 92176 | 2011 | MC | 541348 | 6309774 | 0.45 | soil | 3 | gy-br | silty clay | moderate | abnt | - | - | trace | 1-Aug-11 | 60 | - |
| 92177 | 2011 | MC | 541392 | 6309798 | 0.4 | soil | 2 | r-br | silty sand | moderate | abnt | - | - | trace | 1-Aug-11 | 90 | - |
| 92178 | 2011 | MC | 541435 | 6309823 | 0.4 | soil | 2 | r-br | silty sand | well | abnt | - | - | abdt | 1-Aug-11 | 70 | - |
| 92179 | 2011 | MC | 541480 | 6309851 | 0.2 | soil | 2 | r-br | silty sand | moderate | abnt | - | - | trace | 1-Aug-11 | 70 | - |
| 92180 | 2011 | MC | 541524 | 6309873 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | - | - | abdt | 1-Aug-11 | 90 | - |
| 92181 | 2011 | MC | 541567 | 6309898 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | - | - | trace | 1-Aug-11 | 70 | - |
| 92182 | 2011 | MC | 541608 | 6309923 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-rnd | 1-3 | none | 1-Aug-11 | 70 | - |
| 92183 | 2011 | MC | 541653 | 6309949 | 0.5 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-4 | trace | 1-Aug-11 | 70 | - |
| 92184 | 2011 | MC | 541697 | 6309974 | 0.45 | soil | 3 | gy-br | silty clay | poor | abnt | sub-ang | 1-3 | trace | 1-Aug-11 | 60 | - |
| 92185 | 2011 | MC | 541739 | 6310002 | 0.35 | soil | 2 | gy to lt br | silty clay | poor | abnt | sub-ang | 1-5 | abdt | 1-Aug-11 | 80 | - |
| 92186 | 2011 | MC | 541782 | 6310025 | 0.1 | soil | 2 | og-br | silty sand | poor | abnt | - | - | abdt | 1-Aug-11 | 80 | - |
| 92187 | 2011 | MC | 541869 | 6310073 | 0.3 | soil | 3 | med br | silty sand | moderate | abnt | - | - | trace | 1-Aug-11 | 60 | - |
| 92188 | 2011 | MC | 541910 | 6310098 | 0.4 | soil | 2 | r-br | silty sand | poor | abnt | sub-rnd | 1-2 | trace | 1-Aug-11 | 70 | - |
| 92189 | 2011 | MC | 541958 | 6310122 | 0.6 | soil | 3 | med br | silty clay | moderate | abnt | - | - | trace | 1-Aug-11 | 70 | - |
| 92190 | 2011 | MC | 541998 | 6310149 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-rnd | 2-13 | none | 1-Aug-11 | 70 | - |
| 92191 | 2011 | MC | 542043 | 6310175 | 0.35 | soil | 2 | r-br | sand | poor | abnt | rnd | 1-4 | trace | 1-Aug-11 | 70 | - |
| 92192 | 2011 | MC | 542085 | 6310200 | 0.4 | soil | 2 | r-br | silty sand | well | abnt | - | - | none | 1-Aug-11 | 70 | - |
| 92193 | 2011 | MC | 542129 | 6310226 | 0.25 | soil | 2 | r-br | silty sand | poor | abnt | sub-rnd | 1-3 | none | 1-Aug-11 | 80 | - |
| 92194 | 2011 | MC | 542171 | 6310250 | 0.35 | soil | 2 | r-br | silty sand | moderate | abnt | sub-rnd | 1-5 | none | 1-Aug-11 | 70 | - |
| 92195 | 2011 | MC | 542214 | 6310275 | 0.35 | soil | 2 | r-br | silty sand | moderate | abnt | sub-rnd | 1-2 | trace | 1-Aug-11 | 70 | - |
| 92196 | 2011 | MC | 542258 | 6310299 | 0.4 | soil | 3 | gy to lt br | silty clay | poor | abnt | sub-ang | 2-4 | trace | 1-Aug-11 | 70 | - |
| 92197 | 2011 | MC | 542303 | 6310326 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | abdt | 1-Aug-11 | 50 | - |
| 92198 | 2011 | MC | 542345 | 6310349 | 0.45 | soil | 3 | gy-br | silty clay | poor | abnt | sub-ang | 1 | trace | 1-Aug-11 | 60 | - |
| 92199 | 2011 | MC | 542387 | 6310376 | 0.5 | soil | 2 | og-br | silty sand | moderate | abnt | - | - | trace | 1-Aug-11 | 40 | - |
| 92200 | 2011 | MC | 542431 | 6310401 | 0.3 | soil | 3 | gy-br | silty clay | moderate | abnt | sub-ang to oblate | 2-5 | abdt | 1-Aug-11 | 40 | - |
| 92201 | 2011 | MC | 542520 | 6310453 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 1-Aug-11 | 50 | - |
| 92202 | 2011 | MC | 542558 | 6310478 | 0.4 | soil | 2 | med br | silty clay | well | abnt | rnd | 1 | trace | 1-Aug-11 | 40 | - |
| 92203 | 2011 | MC | 542604 | 6310501 | 0.4 | soil | 3 | gy-br | silty clay | well | abnt | rnd | 1-2 | none | 1-Aug-11 | 40 | - |
| 92204 | 2011 | Beckling | 539158 | 6312656 | 0.4 | soil | 1 | dk br | silty sand | poor | abnt | sub-ang | 1-2 | mod | 3-Aug-11 | 75 | - |
| 92205 | 2011 | Beckling | 539201 | 6312682 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 3-Aug-11 | 110 | - |
| 92206 | 2011 | Beckling | 539244 | 6312707 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1 | trace | 3-Aug-11 | 190 | - |
| 92207 | 2011 | Beckling | 539289 | 6312732 | 1 | soil | 5 | dk br | sandy silt | moderate | abnt | sub-ang | 1 | abdt | 3-Aug-11 | 95 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|-------------|----------|-----------------------|-------------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92208 | 2011 | Beckling | 539331 | 6312758 | 0.45 | soil | 3 | blk | silt | well | abnt | - | - | abdt | 3-Aug-11 | 120 | - |
| 92209 | 2011 | Beckling | 539375 | 6312783 | 0.7 | soil | 2 | dk br | silty sand | poor | abnt | sub-ang | 1-3 | mod | 3-Aug-11 | 130 | - |
| 92210 | 2011 | Beckling | 539419 | 6312807 | 0.45 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang | 1-3 | mod | 3-Aug-11 | 100 | - |
| 92211 | 2011 | Beckling | 539463 | 6312833 | 0.3 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-3 | trace | 3-Aug-11 | 115 | - |
| 92212 | 2011 | Beckling | 539504 | 6312858 | 0.3 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 3-Aug-11 | 105 | - |
| 92213 | 2011 | Beckling | 539549 | 6312883 | 0.35 | soil | 1 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 3-Aug-11 | 105 | - |
| 92214 | 2011 | Beckling | 539592 | 6312909 | 0.35 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang to oblate | 1 | trace | 3-Aug-11 | 200 | - |
| 92215 | 2011 | Beckling | 539635 | 6312933 | 0.35 | soil | 1 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 3-Aug-11 | 300 | - |
| 92216 | 2011 | Beckling | 539677 | 6312958 | 0.3 | soil | 1 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 3-Aug-11 | 165 | - |
| 92217 | 2011 | Beckling | 539720 | 6312984 | 0.4 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | 1-2 | trace | 3-Aug-11 | 115 | - |
| 92218 | 2011 | Beckling | 539765 | 6313009 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | 1-5 | trace | 3-Aug-11 | 120 | - |
| 92219 | 2011 | Beckling | 539808 | 6313033 | 0.2 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 3-Aug-11 | 250 | - |
| 92220 | 2011 | Beckling | 539851 | 6313059 | 0.35 | soil | 2 | dk br | sandy silt | well | abnt | - | - | abdt | 3-Aug-11 | 90 | - |
| 92221 | 2011 | Beckling | 539893 | 6313084 | 0.45 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang to oblate | 1-3 | abdt | 3-Aug-11 | 65 | - |
| 92222 | 2011 | Beckling | 539938 | 6313110 | 0.25 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 3 | trace | 3-Aug-11 | 65 | - |
| 92223 | 2011 | Beckling | 539980 | 6313133 | 0.45 | soil | 1 | og-br | silty sand | poor | abnt | ang | 1 | mod | 3-Aug-11 | 130 | - |
| 92224 | 2011 | Beckling | 540023 | 6313158 | 0.3 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 3-Aug-11 | 40 | - |
| 92225 | 2011 | Beckling | 540066 | 6313185 | - | soil | 4 | med br | sand | poor | abnt | sub-ang to oblate | 1-30 | abdt | 3-Aug-11 | 30 | - |
| 92226 | 2011 | Beckling | 540109 | 6313210 | 1 | soil | 5 | blk | sandy silt | well | abnt | - | - | abdt | 3-Aug-11 | 10 | - |
| 92227 | 2011 | Beckling | 540154 | 6313234 | 0.5 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-32 | trace | 3-Aug-11 | 75 | - |
| 92228 | 2011 | Beckling | 540196 | 6313260 | 1.4 | soil | 5 | r-br | silt | well | abnt | - | - | abdt | 3-Aug-11 | 10 | - |
| 92229 | 2011 | Beckling | 540285 | 6313312 | 0.4 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 2 | trace | 3-Aug-11 | 40 | - |
| 92230 | 2011 | Beckling | 540325 | 6313334 | 0.3 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang to oblate | 1-8 | trace | 3-Aug-11 | 30 | - |
| 92231 | 2011 | Beckling | 540370 | 6313361 | 0.3 | soil | 2 | gy-br | silty sand | moderate | abnt | sub-ang | up to 1 | mod | 3-Aug-11 | 30 | - |
| 92232 | 2011 | Beckling | 540413 | 6313385 | - | soil | 5 | - | silt | well | abnt | - | - | - | 3-Aug-11 | 30 | - |
| 92233 | 2011 | Beckling | 540455 | 6313411 | 0.4 | soil | 3 | dk br | silty sand | moderate | abnt | sub-ang | 3 | abdt | 3-Aug-11 | 40 | - |
| 92234 | 2011 | Beckling | 540500 | 6313436 | 0.35 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang to oblate | up to 1 | trace | 3-Aug-11 | 40 | - |
| 92235 | 2011 | Beckling | 540585 | 6313485 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 3-Aug-11 | 55 | - |
| 92236 | 2011 | Beckling | 540441 | 6313635 | 0.3 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 5-Aug-11 | 70 | - |
| 92237 | 2011 | Beckling | 540399 | 6313609 | 0.3 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 5-Aug-11 | 90 | - |
| 92238 | 2011 | Beckling | 540355 | 6313583 | 0.25 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-8 | trace | 5-Aug-11 | 90 | - |
| 92239 | 2011 | Beckling | 540313 | 6313559 | 0.35 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-5 | trace | 5-Aug-11 | 90 | - |
| 92240 | 2011 | Beckling | 540268 | 6313533 | 0.3 | soil | 1 | og-br | silty sand | well | abnt | sub-ang | 1-3 | trace | 5-Aug-11 | 115 | - |
| 92241 | 2011 | Beckling | 540226 | 6313507 | 0.2 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to oblate | 1-3 | trace | 5-Aug-11 | 135 | - |
| 92242 | 2011 | Beckling | 540182 | 6313483 | 0.2 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 5-Aug-11 | 170 | - |
| 92243 | 2011 | Beckling | 540140 | 6313458 | 0.2 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 5-Aug-11 | 115 | - |
| 92244 | 2011 | Beckling | 540094 | 6313431 | 0.3 | soil | 1 | med br | silty sand | well | abnt | sub-ang | 1 | mod | 5-Aug-11 | 170 | - |
| 92245 | 2011 | Beckling | 540053 | 6313408 | 0.2 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Aug-11 | 105 | - |
| 92246 | 2011 | Beckling | 540009 | 6313381 | 0.3 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 5-Aug-11 | 240 | - |
| 92247 | 2011 | Beckling | 539967 | 6313358 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 5-Aug-11 | 90 | - |
| 92248 | 2011 | Beckling | 539922 | 6313332 | 0.4 | soil | 5 | dk br | silty sand | well | abnt | - | - | abdt | 5-Aug-11 | 50 | - |
| 92249 | 2011 | Beckling | 539880 | 6313306 | 0.45 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang to oblate | 1-5 | mod | 5-Aug-11 | 100 | - |
| 92250 | 2011 | Beckling | 539836 | 6313283 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 5-Aug-11 | 175 | - |
| 92251 | 2011 | Beckling | 539792 | 6313256 | 0.35 | soil | 1 | lt og-br | silty sand | well | abnt | - | - | trace | 5-Aug-11 | 165 | - |
| 92252 | 2011 | Beckling | 539749 | 6313230 | 0.35 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Aug-11 | 300 | - |
| 92253 | 2011 | Beckling | 539706 | 6313208 | 0.25 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 5-Aug-11 | 250 | - |
| 92254 | 2011 | Beckling | 539665 | 6313182 | 0.3 | soil | 1 | med br | silty sand | well | abnt | - | - | trace | 5-Aug-11 | 140 | - |
| 92255 | 2011 | Beckling | 539620 | 6313157 | 0.35 | soil | 3 | dk br | clayey silt | poor | abnt | sub-ang | up to 1 | mod | 5-Aug-11 | 105 | - |
| 92256 | 2011 | Beckling | 539578 | 6313131 | 0.3 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 5-Aug-11 | 175 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|-------------|----------|-----------------------|--------------------|-----------|----------|----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92257 | 2011 | Beckling | 539535 | 6313106 | 0.35 | soil | 2 | dk br | silty sand | moderate | abnt | sub-ang | 1-8 | mod | 5-Aug-11 | 205 | - |
| 92258 | 2011 | Beckling | 539492 | 6313081 | 0.4 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | 1-20 | trace | 5-Aug-11 | 225 | - |
| 92259 | 2011 | Beckling | 539449 | 6313056 | 0.25 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | 1-5 | trace | 5-Aug-11 | 205 | - |
| 92260 | 2011 | Beckling | 539404 | 6313030 | 0.3 | soil | 1 | med br | silty sand | moderate | abnt | sub-ang to oblate | 1 | trace | 5-Aug-11 | 205 | - |
| 92261 | 2011 | Beckling | 539362 | 6313006 | 0.2 | soil | 1 | r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 5-Aug-11 | 275 | - |
| 92262 | 2011 | Beckling | 539316 | 6312979 | 0.4 | soil | 4 | blk | sandy silt | poor | abnt | sub-ang | 1-3 | mod | 5-Aug-11 | 130 | - |
| 92263 | 2011 | Beckling | 539274 | 6312955 | 0.45 | soil | 3 | gy-br | clayey silt | well | abnt | - | - | trace | 5-Aug-11 | 210 | - |
| 92264 | 2011 | Beckling | 539233 | 6312930 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 5-Aug-11 | 300 | - |
| 92265 | 2011 | Beckling | 539188 | 6312905 | 0.45 | soil | 3 | med br | clayey silt | moderate | abnt | sub-ang to oblate | 1 | mod | 5-Aug-11 | 450 | - |
| 92266 | 2011 | Beckling | 539145 | 6312880 | 0.2 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 5-Aug-11 | 5800 | - |
| 92267 | 2011 | Beckling | 539103 | 6312855 | 0.3 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 5-Aug-11 | 250 | - |
| 92268 | 2011 | Beckling | 539057 | 6312830 | 0.35 | soil | 1 | dk br | silt | well | abnt | - | - | mod | 5-Aug-11 | 260 | - |
| 92269 | 2011 | Beckling | 538956 | 6313007 | 0.45 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 6-Aug-11 | 260 | - |
| 92270 | 2011 | Beckling | 539000 | 6313029 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 6-Aug-11 | 350 | - |
| 92271 | 2011 | Beckling | 539043 | 6313055 | 0.45 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | 1-2 | trace | 6-Aug-11 | 240 | - |
| 92272 | 2011 | Beckling | 539089 | 6313081 | 0.35 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | 1-2 | mod | 6-Aug-11 | 1000 | - |
| 92273 | 2011 | Beckling | 539131 | 6313104 | 0.45 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | 1-2 | trace | 6-Aug-11 | 350 | - |
| 92274 | 2011 | Beckling | 539173 | 6313129 | 0.4 | soil | 3 | lt br | clay | poor | abnt | sub-ang | 1-8 | trace | 6-Aug-11 | 240 | - |
| 92275 | 2011 | Beckling | 539218 | 6313155 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 6-Aug-11 | 200 | - |
| 92326 | 2011 | Beckling | 539260 | 6313179 | 0.45 | soil | 2 | lt og-br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 6-Aug-11 | 145 | - |
| 92327 | 2011 | Beckling | 539304 | 6313205 | 0.55 | soil | 3 | dk br | silt | poor | abnt | sub-ang | 1-3 | mod | 6-Aug-11 | 145 | - |
| 92328 | 2011 | Beckling | 539348 | 6313230 | 0.5 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | 1 | trace | 6-Aug-11 | 150 | - |
| 92329 | 2011 | Beckling | 539391 | 6313255 | 0.5 | soil | 3 | dk br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 6-Aug-11 | 190 | - |
| 92330 | 2011 | Beckling | 539436 | 6313278 | 0.35 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 6-Aug-11 | 100 | - |
| 92331 | 2011 | Beckling | 539475 | 6313305 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 6-Aug-11 | 150 | - |
| 92332 | 2011 | Beckling | 539519 | 6313330 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 6-Aug-11 | 130 | - |
| 92333 | 2011 | Beckling | 539562 | 6313354 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | mod | 6-Aug-11 | 130 | - |
| 92334 | 2011 | Beckling | 539607 | 6313380 | 0.3 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | mod | 6-Aug-11 | 175 | - |
| 92335 | 2011 | Beckling | 539650 | 6313404 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | 1-4 | trace | 6-Aug-11 | 200 | - |
| 92336 | 2011 | Beckling | 539692 | 6313431 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 6-Aug-11 | 130 | - |
| 92337 | 2011 | Beckling | 539736 | 6313456 | 0.3 | soil | 2 | og-br | - | poor | abnt | sub-ang | 1-8 | trace | 6-Aug-11 | 130 | - |
| 92338 | 2011 | Beckling | 539779 | 6313482 | 0.45 | soil | 3 | og-br | sandy silt | well | abnt | - | - | mod | 6-Aug-11 | 100 | - |
| 92339 | 2011 | Beckling | 539822 | 6313507 | 0.45 | soil | 2 | med og-br | silty sand | well | abnt | - | - | trace | 6-Aug-11 | 120 | - |
| 92340 | 2011 | Beckling | 539866 | 6313532 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 6-Aug-11 | 100 | - |
| 92341 | 2011 | Beckling | 539909 | 6313557 | 0.6 | soil | 2 | blk | silt | well | abnt | - | - | abdt | 6-Aug-11 | 70 | - |
| 92342 | 2011 | Beckling | 539996 | 6313606 | 0.4 | soil | 4 | dk br | sandy silt | well | abnt | - | - | abdt | 6-Aug-11 | 100 | - |
| 92343 | 2011 | Beckling | 540038 | 6313630 | 0.4 | soil | 3 | dk br | sandy silt | well | abnt | - | - | abdt | 6-Aug-11 | 100 | - |
| 92344 | 2011 | Beckling | 540082 | 6313657 | 0.3 | soil | 3 | lt br | sandy silt | well | abnt | - | - | trace | 6-Aug-11 | 85 | - |
| 92345 | 2011 | Beckling | 540126 | 6313683 | 0.4 | soil | 2 | med r-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 6-Aug-11 | 120 | - |
| 92346 | 2011 | Beckling | 540168 | 6313706 | 0.25 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 6-Aug-11 | 100 | - |
| 92347 | 2011 | Beckling | 540212 | 6313732 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1 | trace | 6-Aug-11 | 130 | - |
| 92348 | 2011 | Beckling | 540255 | 6313757 | 0.25 | soil | 2 | med to lt br | sandy silt | poor | abnt | - | 1-3 | trace | 6-Aug-11 | 105 | - |
| 92349 | 2011 | Beckling | 540297 | 6313782 | 0.4 | soil | 2 | med br | sand | moderate | abnt | - | 1 | trace | 6-Aug-11 | 50 | - |
| 92350 | 2011 | Beckling | 540337 | 6313807 | 0.35 | soil | 4 | med br | silty sand | - | abnt | sub-ang to oblate | 1 | - | 6-Aug-11 | 50 | - |
| 92376 | 2011 | Beckling | 538857 | 6313177 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 7-Aug-11 | 180 | - |
| 92377 | 2011 | Beckling | 538901 | 6313199 | 0.3 | soil | 2 | og-br | sandy silt | moderate | abnt | sub-ang to oblate | 1 | trace | 7-Aug-11 | 190 | - |
| 92378 | 2011 | Beckling | 538944 | 6313226 | 0.4 | soil | 5 | med br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 7-Aug-11 | 110 | - |
| 92379 | 2011 | Beckling | 539030 | 6313276 | 0.6 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang to sub-rnd | 1-18 | mod | 7-Aug-11 | 330 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|-------------|----------|-----------------------|--------------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92380 | 2011 | Beckling | 539073 | 6313302 | 0.4 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | 1 | none | 7-Aug-11 | 300 | - |
| 92381 | 2011 | Beckling | 539118 | 6313327 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 200 | - |
| 92382 | 2011 | Beckling | 539160 | 6313352 | 0.75 | soil | 3 | lt br | sandy silt | well | abnt | sub-ang | 1 | trace | 7-Aug-11 | 180 | - |
| 92383 | 2011 | Beckling | 539204 | 6313377 | 0.3 | soil | 2 | med br | silty sand | well | abnt | - | - | abdt | 7-Aug-11 | 290 | - |
| 92384 | 2011 | Beckling | 539247 | 6313402 | 0.25 | soil | 2 | med br | clayey silt | poor | abnt | sub-ang | 1-8 | mod | 7-Aug-11 | 130 | - |
| 92385 | 2011 | Beckling | 539332 | 6313452 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 175 | - |
| 92386 | 2011 | Beckling | 539376 | 6313474 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 7-Aug-11 | 180 | - |
| 92387 | 2011 | Beckling | 539417 | 6313503 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 130 | - |
| 92388 | 2011 | Beckling | 539462 | 6313529 | 0.35 | soil | 2 | med to lt br | - | moderate | abnt | sub-ang | 1-3 | mod | 7-Aug-11 | 175 | - |
| 92389 | 2011 | Beckling | 539506 | 6313553 | 0.3 | soil | 2 | med br | sandy silt | moderate | abnt | sub-ang to sub-rnd | 1-4 | trace | 7-Aug-11 | 180 | - |
| 92390 | 2011 | Beckling | 539550 | 6313577 | - | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 120 | - |
| 92391 | 2011 | Beckling | 539594 | 6313604 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 7-Aug-11 | 130 | - |
| 92392 | 2011 | Beckling | 539635 | 6313629 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 7-Aug-11 | 160 | - |
| 92393 | 2011 | Beckling | 539679 | 6313653 | 0.45 | soil | 2 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 7-Aug-11 | 75 | - |
| 92394 | 2011 | Beckling | 539722 | 6313678 | 0.5 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | up to 3 | mod | 7-Aug-11 | 40 | - |
| 92395 | 2011 | Beckling | 539764 | 6313705 | - | soil | 2 | med br | sandy silt | poor | abnt | - | up to 3 | trace | 7-Aug-11 | 90 | - |
| 92396 | 2011 | Beckling | 539809 | 6313727 | 0.3 | soil | 2 | dk br | silty sand | well | abnt | - | - | abdt | 7-Aug-11 | 70 | - |
| 92397 | 2011 | Beckling | 539851 | 6313753 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 130 | - |
| 92398 | 2011 | Beckling | 539888 | 6313774 | 0.35 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | 1-3 | mod | 7-Aug-11 | 100 | - |
| 92399 | 2011 | Beckling | 539938 | 6313802 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 75 | - |
| 92400 | 2011 | Beckling | 539981 | 6313828 | 0.3 | soil | - | gy | sand | well | abnt | sub-ang | up to 1 | mod | 7-Aug-11 | 50 | - |
| 92401 | 2011 | Beckling | 540025 | 6313855 | - | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 7-Aug-11 | 70 | - |
| 92402 | 2011 | Beckling | 540111 | 6313904 | - | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 7-Aug-11 | 105 | - |
| 92403 | 2011 | Beckling | 540154 | 6313929 | - | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | 1 | trace | 7-Aug-11 | 70 | - |
| 92404 | 2011 | Beckling | 540198 | 6313954 | 0.2 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 7-Aug-11 | 100 | - |
| 92405 | 2011 | Beckling | 540241 | 6313981 | - | soil | 2 | dk br | sandy silt | well | abnt | sub-ang | up to 1 | mod | 7-Aug-11 | 55 | - |
| 92406 | 2011 | Beckling | 540140 | 6314151 | 0.3 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | 1-3 | trace | 9-Aug-11 | 80 | - |
| 92407 | 2011 | Beckling | 540097 | 6314128 | 0.2 | soil | 2 | lt br | silty sand | poor | abnt | - | up to 1 | trace | 9-Aug-11 | 115 | - |
| 92408 | 2011 | Beckling | 540053 | 6314101 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 9-Aug-11 | 90 | - |
| 92409 | 2011 | Beckling | 539967 | 6314053 | 0.25 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 9-Aug-11 | 110 | - |
| 92410 | 2011 | Beckling | 539925 | 6314027 | 0.15 | soil | 1 | med br | silty sand | poor | abnt | sub-ang | up to 1 | abdt | 9-Aug-11 | 50 | - |
| 92411 | 2011 | Beckling | 539880 | 6314002 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 9-Aug-11 | 75 | - |
| 92412 | 2011 | Beckling | 539838 | 6313977 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | - | 9-Aug-11 | 60 | - |
| 92413 | 2011 | Beckling | 539795 | 6313952 | 0.35 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | - | 9-Aug-11 | 90 | - |
| 92414 | 2011 | Beckling | 539751 | 6313926 | 0.25 | soil | 2 | med br | - | poor | abnt | sub-ang to oblate | up to 1 | mod | 9-Aug-11 | 85 | - |
| 92415 | 2011 | Beckling | 539707 | 6313901 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang to oblate | up to 1 | trace | 9-Aug-11 | 105 | - |
| 92416 | 2011 | Beckling | 539666 | 6313876 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 9-Aug-11 | 75 | - |
| 92417 | 2011 | Beckling | 539622 | 6313851 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 9-Aug-11 | 80 | - |
| 92418 | 2011 | Beckling | 539577 | 6313826 | 0.2 | soil | 2 | - | silty sand | poor | abnt | sub-ang | up to 5 | trace | 9-Aug-11 | 85 | - |
| 92419 | 2011 | Beckling | 539535 | 6313801 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | abdt | 9-Aug-11 | 70 | - |
| 92420 | 2011 | Beckling | 539492 | 6313776 | 0.55 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | mod | 9-Aug-11 | 110 | - |
| 92421 | 2011 | Beckling | 539448 | 6313751 | - | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 9-Aug-11 | 140 | - |
| 92422 | 2011 | Beckling | 539406 | 6313725 | 0.35 | soil | 2 | lt br | - | moderate | abnt | sub-ang | 1 | none | 9-Aug-11 | 125 | - |
| 92423 | 2011 | Beckling | 539361 | 6313701 | 0.3 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-2 | none | 9-Aug-11 | 120 | - |
| 92424 | 2011 | Beckling | 539318 | 6313675 | 0.3 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 9-Aug-11 | 110 | - |
| 92425 | 2011 | Beckling | 539189 | 6313600 | 0.1 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | 1-10 | trace | 9-Aug-11 | 135 | - |
| 92426 | 2011 | Miranna | 537844 | 6313515 | 0.25 | soil | 4 | lt br | silty clay | well | abnt | sub-ang | 1 | mod | 8-Aug-11 | 190 | - |
| 92427 | 2011 | Miranna | 537802 | 6313490 | 0.2 | soil | 2 | med br | sandy silt | well | abnt | sub-ang | 1 | trace | 8-Aug-11 | 200 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|-------------|----------|-----------------------|--------------------|-----------|----------|----------|-----|-------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92428 | 2011 | Miranna | 537759 | 6313465 | 0.3 | soil | 4 | med br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 8-Aug-11 | 180 | - |
| 92429 | 2011 | Miranna | 537716 | 6313440 | 0.45 | soil | 3 | dk br | sandy silt | poor | abnt | sub-ang | 1 | trace | 8-Aug-11 | 110 | - |
| 92430 | 2011 | Miranna | 537683 | 6313420 | 0.4 | soil | 3 | med br | clayey silt | well | abnt | sub-ang | 3 | mod | 8-Aug-11 | 190 | - |
| 92431 | 2011 | Miranna | 537816 | 6313267 | 0.35 | soil | 2 | dk br | clayey silt | poor | abnt | sub-ang to sub-rnd | up to 12 | - | 8-Aug-11 | 175 | - |
| 92432 | 2011 | Miranna | 537860 | 6313292 | 0.3 | soil | 2 | med br | silty sand | well | abnt | - | - | trace | 8-Aug-11 | 140 | - |
| 92433 | 2011 | Miranna | 537904 | 6313317 | 0.5 | soil | 2 | med br | sandy silt | well | abnt | sub-ang | up to 1 | trace | 8-Aug-11 | 230 | - |
| 92434 | 2011 | Miranna | 537947 | 6313341 | 0.35 | soil | 2 | med og-br | silty sand | well | abnt | - | - | trace | 8-Aug-11 | 180 | - |
| 92435 | 2011 | Miranna | 537989 | 6313368 | 0.35 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang to oblate | 1-3 | trace | 8-Aug-11 | 230 | - |
| 92436 | 2011 | Miranna | 538076 | 6313418 | 0.2 | soil | 2 | med br | silty sand | well | abnt | - | - | trace | 8-Aug-11 | 230 | - |
| 92437 | 2011 | Miranna | 538119 | 6313443 | 0.3 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | 1-3 | trace | 8-Aug-11 | 200 | - |
| 92438 | 2011 | Miranna | 538162 | 6313468 | 0.35 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 8-Aug-11 | 180 | - |
| 92439 | 2011 | Miranna | 538206 | 6313493 | 0.2 | soil | 2 | med br | silty sand | poor | abnt | sub-ang to oblate | 1-10 | trace | 8-Aug-11 | 190 | - |
| 92440 | 2011 | Miranna | 538249 | 6313518 | 0.4 | soil | 2 | dk br | sandy silt | well | abnt | - | - | mod | 8-Aug-11 | 200 | - |
| 92441 | 2011 | Miranna | 538293 | 6313544 | 0.4 | soil | 2 | dk br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 8-Aug-11 | 180 | - |
| 92442 | 2011 | Miranna | 538335 | 6313569 | 0.35 | soil | 2 | dk br | silty sand | well | abnt | - | - | trace | 8-Aug-11 | 250 | - |
| 92443 | 2011 | Miranna | 538378 | 6313594 | 0.35 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang to sub-rnd | up to 5 | trace | 8-Aug-11 | 175 | - |
| 92444 | 2011 | Miranna | 538422 | 6313618 | 0.4 | soil | 3 | med br | silty clay | moderate | abnt | sub-ang | 1 | trace | 8-Aug-11 | 220 | - |
| 92445 | 2011 | Miranna | 538466 | 6313646 | 0.3 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 8-Aug-11 | 130 | - |
| 92446 | 2011 | Miranna | 538509 | 6313668 | 0.35 | soil | 2 | med br | - | moderate | abnt | sub-ang | 1-4 | trace | 8-Aug-11 | 160 | - |
| 92447 | 2011 | Miranna | 538610 | 6313495 | 0.3 | soil | - | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 8-Aug-11 | 250 | - |
| 92448 | 2011 | Miranna | 538566 | 6313471 | 0.3 | soil | 2 | og-br | - | well | abnt | sub-ang | 1 | trace | 8-Aug-11 | 170 | - |
| 92449 | 2011 | Miranna | 538520 | 6313445 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 8-Aug-11 | 200 | - |
| 92450 | 2011 | Miranna | 538474 | 6313422 | 0.2 | soil | 2 | med br | silty sand | well | abnt | - | - | mod | 8-Aug-11 | 160 | - |
| 92451 | 2011 | Miranna | 538437 | 6313396 | 0.3 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 8-Aug-11 | 165 | - |
| 92452 | 2011 | Miranna | 538394 | 6313369 | 0.3 | soil | 1 | med br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 8-Aug-11 | 260 | - |
| 92453 | 2011 | Miranna | 538349 | 6313345 | 0.25 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 8-Aug-11 | 200 | - |
| 92454 | 2011 | Miranna | 538307 | 6313320 | 0.15 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 8-Aug-11 | 135 | - |
| 92455 | 2011 | Miranna | 538264 | 6313294 | 0.3 | soil | 3 | blk | silt | well | abnt | - | - | abdt | 8-Aug-11 | 185 | - |
| 92456 | 2011 | Miranna | 538222 | 6313270 | 0.2 | soil | 2 | lt og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 8-Aug-11 | 200 | - |
| 92457 | 2011 | Miranna | 538091 | 6313195 | 0.3 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 8-Aug-11 | 150 | - |
| 92458 | 2011 | Miranna | 538047 | 6313168 | - | soil | 3 | med og-br | clayey silt | poor | abnt | sub-ang | 1-8 | trace | 8-Aug-11 | 150 | - |
| 92459 | 2011 | Miranna | 538004 | 6313143 | - | soil | 2 | med br | silty sand | well | abnt | - | - | trace | 8-Aug-11 | 100 | - |
| 92460 | 2011 | Miranna | 538105 | 6312971 | 0.2 | soil | 2 | med og-br | sandy silt | moderate | abnt | sub-ang | 1-3 | trace | 8-Aug-11 | 170 | - |
| 92461 | 2011 | Miranna | 538147 | 6312997 | 0.75 | soil | 4 | blk | silt | well | abnt | - | - | abdt | 8-Aug-11 | 75 | - |
| 92462 | 2011 | Miranna | 538190 | 6313022 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 8-Aug-11 | 220 | - |
| 92463 | 2011 | Miranna | 538233 | 6313047 | 0.25 | soil | 1 | og-gy | silty sand | moderate | abnt | sub-ang | 1 | trace | 8-Sep-11 | 170 | - |
| 92464 | 2011 | Miranna | 538276 | 6313072 | 0.2 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 8-Aug-11 | 145 | - |
| 92465 | 2011 | Beckling | 539145 | 6313574 | 0.4 | soil | 2 | og-br | silty sand | moderate | abnt | - | 1-2 | trace | 8-Aug-11 | 200 | - |
| 92466 | 2011 | Beckling | 539102 | 6313549 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 9-Aug-11 | 230 | - |
| 92467 | 2011 | Beckling | 539059 | 6313524 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 9-Aug-11 | 150 | - |
| 92468 | 2011 | Beckling | 539017 | 6313500 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 9-Aug-11 | 165 | - |
| 92469 | 2011 | Beckling | 538973 | 6313474 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 9-Aug-11 | 300 | 700 cps 2m south |
| 92470 | 2011 | Beckling | 538928 | 6313449 | 0.4 | soil | 1 | r-br | silty sand | well | abnt | sub-ang | 1-3 | mod | 9-Aug-11 | 275 | - |
| 92471 | 2011 | Beckling | 538887 | 6313424 | 0.25 | soil | 2 | dk gy-br | - | poor | abnt | sub-ang to sub-rnd | 1-15 | mod | 9-Aug-11 | 200 | 2000 cps 1m south |
| 92472 | 2011 | Beckling | 538843 | 6313400 | 0.25 | soil | 2 | med br | silty sand | well | abnt | sub-ang to oblate | 3-5 | mod | 9-Aug-11 | 145 | - |
| 92473 | 2011 | Beckling | 538799 | 6313374 | 0.3 | soil | 3 | lt br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 9-Aug-11 | 220 | - |
| 92474 | 2011 | Beckling | 538757 | 6313349 | 0.15 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang to oblate | up to 1 | abdt | 9-Aug-11 | 165 | - |
| 92475 | 2011 | Beckling | 538709 | 6313324 | 0.3 | soil | 2 | og-br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 9-Aug-11 | 200 | - |
| 92501 | 2011 | Miranna | 538667 | 6313297 | 0.2 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 9-Aug-11 | 160 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|-------------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|-------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92502 | 2011 | Miranna | 538622 | 6313275 | 0.3 | soil | 1 | r-br | silty sand | well | abnt | - | - | mod | 9-Aug-11 | 170 | - |
| 92503 | 2011 | Miranna | 538580 | 6313247 | 0.25 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | 1 | trace | 9-Aug-11 | 140 | - |
| 92504 | 2011 | Miranna | 538538 | 6313221 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 9-Aug-11 | 190 | - |
| 92505 | 2011 | Miranna | 538493 | 6313198 | - | soil | 5 | gy-br | clayey silt | poor | abnt | sub-ang | 1-10 | abdt | 9-Aug-11 | 135 | - |
| 92506 | 2011 | Miranna | 538450 | 6313172 | 0.4 | soil | 3 | dk gy-br | silt | poor | abnt | sub-ang | 2-6 | trace | 9-Aug-11 | 135 | - |
| 92507 | 2011 | Miranna | 538408 | 6313147 | 0.2 | soil | 4 | med br | silt | moderate | abnt | sub-ang | 1-2 | trace | 9-Aug-11 | 135 | - |
| 92508 | 2011 | Miranna | 538364 | 6313122 | 0.35 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 9-Aug-11 | 100 | - |
| 92509 | 2011 | Miranna | 537169 | 6313585 | 0.3 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 135 | - |
| 92510 | 2011 | Miranna | 537126 | 6313559 | 0.3 | soil | 3 | gy-br | clay | well | abnt | - | - | trace | 10-Aug-11 | 200 | 1000 cps 1m south |
| 92511 | 2011 | Miranna | 537082 | 6313533 | 0.2 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 10-Aug-11 | 170 | - |
| 92512 | 2011 | Miranna | 537040 | 6313508 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 10-Aug-11 | 220 | - |
| 92513 | 2011 | Miranna | 536996 | 6313483 | 0.4 | soil | 2 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 10-Aug-11 | 140 | - |
| 92514 | 2011 | Miranna | 536952 | 6313458 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 120 | - |
| 92515 | 2011 | Miranna | 536866 | 6313407 | 0.2 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 10-Aug-11 | 125 | - |
| 92516 | 2011 | Miranna | 536823 | 6313381 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 4 | trace | 10-Aug-11 | 175 | - |
| 92517 | 2011 | Miranna | 536780 | 6313358 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | - | up to 1 | none | 10-Aug-11 | 180 | - |
| 92518 | 2011 | Miranna | 536737 | 6313332 | 0.3 | soil | 2 | - | m.g. to c.g. sand | poor | abnt | sub-ang | 1-10 | trace | 10-Aug-11 | 235 | - |
| 92519 | 2011 | Miranna | 536694 | 6313306 | 0.4 | soil | 2 | og-br | silty sand | well | abnt | sub-ang | up to 1 | trace | 10-Aug-11 | 120 | - |
| 92520 | 2011 | Miranna | 536649 | 6313280 | 0.5 | soil | 1 | r-br | silty sand | well | abnt | sub-ang | up to 1 | trace | 10-Aug-11 | 220 | - |
| 92521 | 2011 | Miranna | 536608 | 6313257 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 180 | - |
| 92522 | 2011 | Miranna | 536564 | 6313232 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 250 | - |
| 92523 | 2011 | Miranna | 536521 | 6313205 | 0.3 | soil | 2 | lt br | silt | well | abnt | - | - | trace | 10-Aug-11 | 100 | - |
| 92524 | 2011 | Miranna | 536478 | 6313181 | - | soil | 2 | r-br | silty sand | well | abnt | - | - | trace | 10-Aug-11 | 155 | - |
| 92525 | 2011 | Miranna | 536433 | 6313156 | 0.5 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 190 | - |
| 92526 | 2011 | Miranna | 536391 | 6313130 | 0.2 | soil | 2 | lt br | sandy silt | well | abnt | sub-ang | 1 | trace | 10-Aug-11 | 200 | - |
| 92527 | 2011 | Miranna | 536348 | 6313105 | 0.3 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 3 | trace | 10-Aug-11 | 195 | - |
| 92528 | 2011 | Miranna | 536305 | 6313080 | 0.4 | soil | 3 | dk br | sandy silt | well | abnt | - | - | abdt | 10-Aug-11 | 270 | - |
| 92529 | 2011 | Miranna | 536261 | 6313056 | 0.45 | soil | 3 | dk br | silty sand | poor | abnt | sub-ang | 1-3 | mod | 10-Aug-11 | 215 | - |
| 92530 | 2011 | Miranna | 536218 | 6313030 | 0.5 | soil | 3 | dk br | sandy silt | well | abnt | - | - | mod | 10-Aug-11 | 170 | - |
| 92531 | 2011 | Miranna | 536175 | 6313004 | 0.4 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 10-Aug-11 | 195 | - |
| 92532 | 2011 | Miranna | 536131 | 6312979 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 10-Aug-11 | 175 | - |
| 92533 | 2011 | Miranna | 536277 | 6312832 | 0.4 | soil | 3 | dk br | sandy silt | poor | abnt | sub-ang | 1 | trace | 10-Aug-11 | 420 | - |
| 92534 | 2011 | Miranna | 536318 | 6312857 | 0.35 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 10-Aug-11 | 350 | - |
| 92535 | 2011 | Miranna | 536362 | 6312882 | 0.35 | soil | 2 | dk br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 10-Aug-11 | 550 | - |
| 92536 | 2011 | Miranna | 536405 | 6312908 | 0.5 | soil | 2 | med br | sandy silt | well | abnt | - | - | mod | 10-Aug-11 | 280 | - |
| 92537 | 2011 | Miranna | 536449 | 6312932 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 10-Aug-11 | 310 | - |
| 92538 | 2011 | Miranna | 536492 | 6312958 | 0.2 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang to oblate | up to 1 | trace | 10-Aug-11 | 220 | - |
| 92539 | 2011 | Miranna | 536535 | 6312983 | 0.45 | soil | 3 | med br | silty sand | moderate | abnt | ang | 2 | mod | 10-Aug-11 | 200 | - |
| 92540 | 2011 | Miranna | 536578 | 6313007 | 0.35 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | 1-10 | trace | 10-Aug-11 | 230 | - |
| 92541 | 2011 | Miranna | 536622 | 6313033 | 0.35 | soil | 1 | lt br | sandy silt | well | abnt | - | - | - | 10-Aug-11 | 210 | - |
| 92542 | 2011 | Miranna | 536665 | 6313058 | 0.45 | soil | 2 | gy-br | silty sand | well | abnt | sub-ang | up to 1 | trace | 10-Aug-11 | 100 | - |
| 92543 | 2011 | Miranna | 536708 | 6313085 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 10-Aug-11 | 200 | - |
| 92544 | 2011 | Miranna | 536751 | 6313109 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 10-Aug-11 | 150 | - |
| 92545 | 2011 | Miranna | 536794 | 6313135 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 10-Aug-11 | 140 | - |
| 92546 | 2011 | Miranna | 536839 | 6313159 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 10-Aug-11 | 140 | - |
| 92547 | 2011 | Miranna | 536881 | 6313185 | 0.4 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 10-Aug-11 | 155 | - |
| 92548 | 2011 | Miranna | 536923 | 6313210 | 0.25 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 3 | trace | 10-Aug-11 | 135 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------------|----------|-----------------------|----------------|-----------|----------|-----------|------|--------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92549 | 2011 | Miranna | 536967 | 6313234 | 0.45 | soil | 2 | med to lt br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 10-Aug-11 | 130 | - |
| 92550 | 2011 | Miranna | 537011 | 6313260 | 0.4 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 10-Aug-11 | 135 | - |
| 92576 | 2011 | Miranna | 537054 | 6313285 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 11-Aug-11 | 135 | - |
| 92577 | 2011 | Miranna | 537097 | 6313310 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 11-Aug-11 | 120 | - |
| 92578 | 2011 | Miranna | 537141 | 6313337 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | none | 11-Aug-11 | 130 | - |
| 92579 | 2011 | Miranna | 537184 | 6313360 | 0.35 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 11-Aug-11 | 135 | - |
| 92580 | 2011 | Miranna | 537226 | 6313385 | 0.45 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | up to 5 | trace | 11-Aug-11 | 120 | - |
| 92581 | 2011 | Miranna | 537270 | 6313410 | 0.25 | soil | 2 | dk br | silty sand | well | abnt | - | - | mod | 11-Aug-11 | 235 | - |
| 92582 | 2011 | Miranna | 537410 | 6313261 | 0.35 | soil | 5 | dk br | silt | well | abnt | sub-ang | 1 | abdt | 11-Aug-11 | 150 | - |
| 92583 | 2011 | Miranna | 537371 | 6313238 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | ang to sub-ang | 1-2 | trace | 11-Aug-11 | 175 | - |
| 92584 | 2011 | Miranna | 537326 | 6313213 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 11-Aug-11 | 140 | - |
| 92585 | 2011 | Miranna | 537284 | 6313187 | 0.3 | soil | 3 | lt br | silty clay | poor | abnt | sub-ang | up to 6 | trace | 11-Aug-11 | 265 | - |
| 92586 | 2011 | Miranna | 537241 | 6313162 | 0.3 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | 1-8 | trace | 11-Aug-11 | 140 | - |
| 92587 | 2011 | Miranna | 537197 | 6313137 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 11-Aug-11 | 135 | - |
| 92588 | 2011 | Miranna | 537154 | 6313111 | 0.3 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 11-Aug-11 | 135 | - |
| 92589 | 2011 | Miranna | 537111 | 6313085 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 11-Aug-11 | 140 | - |
| 92590 | 2011 | Miranna | 537035 | 6313042 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 11-Aug-11 | 175 | - |
| 92591 | 2011 | Miranna | 537023 | 6313036 | 0.2 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 11-Aug-11 | 1000 | - |
| 92592 | 2011 | Miranna | 536982 | 6313012 | 0.3 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 1-5 | trace | 11-Aug-11 | 200 | - |
| 92593 | 2011 | Miranna | 536939 | 6312987 | 0.3 | soil | 1 | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 11-Aug-11 | 375 | - |
| 92594 | 2011 | Miranna | 536896 | 6312961 | 0.4 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 11-Aug-11 | 280 | - |
| 92595 | 2011 | Miranna | 536852 | 6312936 | 0.35 | soil | - | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | none | 11-Aug-11 | 160 | - |
| 92596 | 2011 | Miranna | 536808 | 6312910 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 11-Aug-11 | 170 | - |
| 92597 | 2011 | Miranna | 536765 | 6312885 | 0.3 | soil | 2 | gy-br | sandy silt | moderate | abnt | sub-ang | 1-3 | trace | 11-Aug-11 | 130 | - |
| 92598 | 2011 | Miranna | 536722 | 6312859 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 11-Aug-11 | 255 | - |
| 92599 | 2011 | Miranna | 536680 | 6312837 | 0.2 | soil | 2 | r-br | silty sand | well | abnt | - | - | trace | 11-Aug-11 | 380 | - |
| 92600 | 2011 | Miranna | 536637 | 6312811 | 0.5 | soil | 3 | gy-br | silt | well | abnt | - | - | trace | 11-Aug-11 | 200 | - |
| 92601 | 2011 | Miranna | 536593 | 6312785 | 0.5 | soil | 1 | med br | sandy silt | well | abnt | - | - | trace | 11-Aug-11 | 135 | - |
| 92602 | 2011 | Miranna | 536550 | 6312761 | 0.45 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 11-Aug-11 | 180 | - |
| 92603 | 2011 | Miranna | 536505 | 6312733 | 0.35 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 11-Aug-11 | 300 | - |
| 92604 | 2011 | Miranna | 536464 | 6312709 | 0.5 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | 1-2 | trace | 11-Aug-11 | 210 | - |
| 92605 | 2011 | Miranna | 536421 | 6312685 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 11-Aug-11 | 460 | - |
| 92606 | 2011 | Miranna | 536377 | 6312658 | 0.35 | soil | 2 | og-br | silty sand | - | abnt | sub-ang | up to 15 | trace | 11-Aug-11 | 550 | - |
| 92607 | 2011 | Miranna | 536334 | 6312634 | 0.3 | soil | 4 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 11-Aug-11 | 370 | - |
| 92608 | 2011 | Miranna | 536780 | 6312663 | 0.3 | soil | 3 | gy-br | silty sand | well | abnt | - | - | trace | 11-Aug-11 | 120 | - |
| 92609 | 2011 | Miranna | 536824 | 6312688 | 0.15 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1-6 | trace | 11-Aug-11 | 130 | - |
| 92610 | 2011 | Miranna | 536866 | 6312715 | 0.3 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 11-Aug-11 | 115 | - |
| 92611 | 2011 | Miranna | 536909 | 6312739 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 11-Aug-11 | 150 | - |
| 92612 | 2011 | Miranna | 536952 | 6312764 | 0.5 | soil | 4 | lt br | silt | well | abnt | - | - | trace | 11-Aug-11 | 300 | - |
| 92613 | 2011 | Miranna | 536996 | 6312788 | 0.3 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 11-Aug-11 | 240 | - |
| 92614 | 2011 | Miranna | 537125 | 6312866 | 0.35 | soil | 4 | med br | c.g. sand | poor | abnt | sub-ang | up to 3 | trace | 11-Aug-11 | 140 | - |
| 92615 | 2011 | Miranna | 537171 | 6312891 | 0.6 | soil | 3 | dk br | silty sand | poor | abnt | - | up to 15 | trace | 11-Aug-11 | 210 | - |
| 92616 | 2011 | Miranna | 537212 | 6312916 | 0.25 | soil | 2 | lt br | sandy silt | well | abnt | sub-ang | 3 | trace | 11-Aug-11 | 350 | 1200 cps 2m west |
| 92617 | 2011 | Miranna | 537254 | 6312939 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 11-Aug-11 | 115 | - |
| 92618 | 2011 | Miranna | 537298 | 6312964 | 0.2 | soil | 2 | - | silty sand | poor | abnt | sub-ang | 1-3 | trace | 11-Aug-11 | 160 | - |
| 92619 | 2011 | Miranna | 537340 | 6312991 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 11-Aug-11 | 1100 | rock reading 3300 cps 1m north |
| 92620 | 2011 | Miranna | 537384 | 6313013 | 0.35 | soil | 1 | r-br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 2800 | Beside trench |
| 92621 | 2011 | Miranna | 537428 | 6313040 | 0.3 | soil | 2 | gy-br | sandy silt | well | abnt | - | - | trace | 12-Aug-11 | 175 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|-------------|----------|-----------------------|---------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92622 | 2011 | Miranna | 537471 | 6313065 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 210 | - |
| 92623 | 2011 | Miranna | 537513 | 6313089 | 0.45 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 4 | mod | 12-Aug-11 | 130 | - |
| 92624 | 2011 | Miranna | 537558 | 6313115 | 0.4 | soil | 3 | lt br | sandy silt | poor | abnt | sub-ang | 1-3 | trace | 12-Aug-11 | 120 | - |
| 92625 | 2011 | Miranna | 537744 | 6312992 | 0.4 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 250 | - |
| 92626 | 2011 | Miranna | 537700 | 6312967 | 0.35 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 330 | - |
| 92627 | 2011 | Miranna | 537666 | 6312948 | 0.7 | soil | 5 | dk br | silt | well | abnt | - | - | abdt | 12-Aug-11 | 55 | - |
| 92628 | 2011 | Miranna | 537529 | 6312866 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 115 | - |
| 92629 | 2011 | Miranna | 537485 | 6312841 | 0.35 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 12-Aug-11 | 135 | - |
| 92630 | 2011 | Miranna | 537441 | 6312817 | 0.35 | soil | 3 | med br | silty clay | poor | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 170 | - |
| 92631 | 2011 | Miranna | 537398 | 6312791 | 0.35 | soil | 3 | lt br | clayey silt | moderate | abnt | - | up to 1 | trace | 12-Aug-11 | 150 | - |
| 92632 | 2011 | Miranna | 537356 | 6312766 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | - | up to 12 | trace | 12-Aug-11 | 350 | - |
| 92633 | 2011 | Miranna | 537312 | 6312740 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 12-Aug-11 | 130 | - |
| 92634 | 2011 | Miranna | 537268 | 6312716 | 0.35 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 12-Aug-11 | 200 | - |
| 92635 | 2011 | Miranna | 537225 | 6312691 | 0.45 | soil | 5 | med br | silt | poor | abnt | sub-ang | 3 | mod | 12-Aug-11 | 130 | - |
| 92636 | 2011 | Miranna | 537182 | 6312665 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 12-Aug-11 | 145 | - |
| 92637 | 2011 | Miranna | 537140 | 6312641 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 12-Aug-11 | 130 | - |
| 92638 | 2011 | Miranna | 537096 | 6312615 | 0.35 | soil | 4 | med br | silt | moderate | abnt | sub-rnd | 20 | abdt | 12-Aug-11 | 175 | - |
| 92639 | 2011 | Miranna | 537052 | 6312591 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 350 | - |
| 92640 | 2011 | Miranna | 537198 | 6312443 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 220 | - |
| 92641 | 2011 | Miranna | 537239 | 6312468 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 175 | - |
| 92642 | 2011 | Miranna | 537284 | 6312493 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 110 | - |
| 92643 | 2011 | Miranna | 537326 | 6312518 | 0.35 | soil | 2 | gy-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 130 | - |
| 92644 | 2011 | Miranna | 537370 | 6312544 | 0.45 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 12-Aug-11 | 125 | - |
| 92645 | 2011 | Miranna | 537413 | 6312568 | 0.4 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1-3 | trace | 12-Aug-11 | 120 | - |
| 92646 | 2011 | Miranna | 537456 | 6312593 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 12-Aug-11 | 360 | - |
| 92647 | 2011 | Miranna | 537499 | 6312618 | 0.3 | soil | 2 | med br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 175 | - |
| 92648 | 2011 | Miranna | 537543 | 6312644 | 0.3 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 180 | - |
| 92649 | 2011 | Miranna | 537674 | 6312719 | 0.45 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 115 | - |
| 92650 | 2011 | Miranna | 537716 | 6312745 | 0.25 | soil | - | og-br | silty sand | well | abnt | - | - | none | 12-Aug-11 | 140 | - |
| 92651 | 2011 | Miranna | 537759 | 6312770 | 0.4 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 175 | - |
| 92652 | 2011 | Miranna | 537802 | 6312795 | 0.4 | soil | 2 | og-br | silty sand | well | abnt | - | - | none | 12-Aug-11 | 230 | - |
| 92653 | 2011 | Miranna | 537847 | 6312822 | 0.3 | soil | 2 | r-br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 320 | - |
| 92654 | 2011 | Miranna | 537881 | 6312841 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 12-Aug-11 | 300 | - |
| 92655 | 2011 | Miranna | 537944 | 6312650 | 0.35 | soil | 5 | med br | sandy silt | well | abnt | - | - | abdt | 12-Aug-11 | 320 | - |
| 92656 | 2011 | Miranna | 537903 | 6312621 | 0.4 | soil | 1 | med br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 320 | - |
| 92657 | 2011 | Miranna | 537859 | 6312596 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 210 | - |
| 92658 | 2011 | Miranna | 537815 | 6312571 | 0.35 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 10-30 | trace | 12-Aug-11 | 230 | - |
| 92659 | 2011 | Miranna | 537773 | 6312546 | 0.35 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 12-Aug-11 | 225 | - |
| 92660 | 2011 | Miranna | 537730 | 6312522 | 0.4 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 150 | - |
| 92661 | 2011 | Miranna | 537685 | 6312496 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Aug-11 | 130 | - |
| 92662 | 2011 | Miranna | 537644 | 6312470 | 0.4 | soil | 5 | med br | sandy silt | poor | abnt | sub-ang | 3 | abdt | 12-Aug-11 | 125 | - |
| 92663 | 2011 | Miranna | 537600 | 6312446 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 12-Aug-11 | 220 | - |
| 92664 | 2011 | Miranna | 537557 | 6312421 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-rnd | up to 2 | trace | 12-Aug-11 | 150 | - |
| 92665 | 2011 | Miranna | 537513 | 6312396 | 0.4 | soil | 1 | og-br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 175 | - |
| 92666 | 2011 | Miranna | 537471 | 6312371 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 12-Aug-11 | 130 | - |
| 92667 | 2011 | Miranna | 537427 | 6312345 | 0.3 | soil | 2 | lt br | silty sand | well | abnt | - | - | trace | 12-Aug-11 | 375 | - |
| 92668 | 2011 | Miranna | 537384 | 6312319 | 0.35 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 12-Aug-11 | 125 | - |
| 92669 | 2011 | Miranna | 537342 | 6312295 | 0.25 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Aug-11 | 110 | - |
| 92670 | 2011 | Miranna | 537299 | 6312269 | 0.4 | soil | 5 | og-br | silty sand | well | abnt | - | - | mod | 12-Aug-11 | 75 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92671 | 2011 | Miranna | 537254 | 6312244 | 0.5 | soil | 3 | og-br | silty clay | well | abnt | - | - | trace | 12-Aug-11 | 130 | - |
| 92672 | 2011 | Miranna | 537212 | 6312220 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 18 | trace | 12-Aug-11 | 140 | - |
| 92673 | 2011 | Miranna | 538206 | 6312800 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-rnd | 2 | trace | 21-Aug-11 | 130 | - |
| 92674 | 2011 | Miranna | 538248 | 6312823 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 21-Aug-11 | 125 | - |
| 92675 | 2011 | Miranna | 538292 | 6312848 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 21-Aug-11 | 140 | - |
| 92676 | 2011 | Miranna | 538336 | 6312874 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 21-Aug-11 | 135 | - |
| 92677 | 2011 | Miranna | 538377 | 6312898 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 21-Aug-11 | 180 | - |
| 92678 | 2011 | Miranna | 538418 | 6312922 | 0.4 | soil | 2 | og-br | sandy silt | well | abnt | - | - | trace | 21-Aug-11 | 140 | - |
| 92679 | 2011 | Miranna | 538464 | 6312949 | - | soil | 3 | dk br | sandy silt | moderate | abnt | sub-ang | 2 | trace | 21-Aug-11 | 130 | - |
| 92680 | 2011 | Miranna | 538506 | 6312974 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang to ang | up to 1 | trace | 21-Aug-11 | 150 | - |
| 92681 | 2011 | Miranna | 538551 | 6313001 | 0.6 | soil | 2 | med br | silty sand | well | abnt | - | - | mod | 21-Aug-11 | 90 | - |
| 92682 | 2011 | Miranna | 538593 | 6313025 | 0.35 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 21-Aug-11 | 190 | - |
| 92683 | 2011 | Miranna | 538637 | 6313051 | 0.4 | soil | 4 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 3 | mod | 21-Aug-11 | 88 | - |
| 92684 | 2011 | Miranna | 538681 | 6313075 | 0.35 | soil | 2 | r-br | sandy silt | well | abnt | - | - | trace | 21-Aug-11 | 160 | - |
| 92685 | 2011 | Miranna | 538723 | 6313100 | 0.45 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | 1 | trace | 21-Aug-11 | 190 | - |
| 92686 | 2011 | Miranna | 538767 | 6313126 | 0.45 | soil | 2 | og-br | - | poor | abnt | sub-ang | up to 2 | abdt | 21-Aug-11 | 460 | - |
| 92687 | 2011 | Miranna | 538809 | 6313150 | 0.65 | soil | 2 | med br | silt | well | abnt | - | - | trace | 21-Aug-11 | 140 | - |
| 92688 | 2011 | Miranna | 538909 | 6312978 | - | soil | 2 | med br | silty sand | poor | abnt | ang to sub-ang | up to 3 | trace | 21-Aug-11 | 430 | - |
| 92689 | 2011 | Miranna | 538864 | 6312954 | 0.35 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 21-Aug-11 | 160 | - |
| 92690 | 2011 | Miranna | 538822 | 6312927 | 0.45 | soil | 2 | med br | sandy silt | poor | abnt | ang | up to 2 | mod | 21-Aug-11 | 140 | - |
| 92691 | 2011 | Miranna | 538737 | 6312877 | 0.5 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | - | 21-Aug-11 | 140 | - |
| 92692 | 2011 | Miranna | 538691 | 6312852 | 0.5 | soil | 1 | og-br | silty sand | - | abnt | sub-ang | up to 1 | mod | 21-Aug-11 | 160 | - |
| 92693 | 2011 | Miranna | 538652 | 6312827 | 0.6 | soil | 4 | med br | silt | well | abnt | - | - | mod | 21-Aug-11 | 160 | - |
| 92694 | 2011 | Miranna | 538608 | 6312800 | 0.5 | soil | 3 | med br | sandy silt | - | abnt | sub-ang | up to 1 | trace | 21-Aug-11 | 180 | - |
| 92695 | 2011 | Miranna | 538565 | 6312776 | 0.5 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 21-Aug-11 | 150 | - |
| 92696 | 2011 | Miranna | 538521 | 6312751 | 0.3 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 130 | - |
| 92697 | 2011 | Miranna | 538479 | 6312727 | 0.75 | soil | 2 | dk br | sandy silt | well | abnt | - | - | abdt | 22-Aug-11 | 160 | - |
| 92698 | 2011 | Miranna | 538436 | 6312700 | - | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 22-Aug-11 | 200 | - |
| 92699 | 2011 | Miranna | 538391 | 6312676 | 0.4 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 4 | trace | 22-Aug-11 | -1 | - |
| 92700 | 2011 | Miranna | 538347 | 6312649 | 0.45 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 4 | trace | 22-Aug-11 | 18 | - |
| 92901 | 2011 | Miranna | 538304 | 6312625 | - | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 175 | - |
| 92902 | 2011 | Miranna | 538262 | 6312600 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 255 | - |
| 92903 | 2011 | Miranna | 538219 | 6312575 | 0.4 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 22-Aug-11 | -1 | - |
| 92904 | 2011 | Miranna | 538175 | 6312551 | 0.55 | soil | 3 | med br | silty sand | well | abnt | - | - | trace | 22-Aug-11 | 200 | - |
| 92905 | 2011 | Miranna | 537828 | 6312347 | - | soil | 3 | dk br | - | moderate | abnt | sub-ang | up to 1 | trace | 22-Aug-11 | 310 | - |
| 92906 | 2011 | Miranna | 537785 | 6312321 | 0.4 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 22-Aug-11 | 120 | - |
| 92907 | 2011 | Miranna | 537746 | 6312300 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 120 | - |
| 92908 | 2011 | Miranna | 537701 | 6312273 | 0.45 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 110 | - |
| 92909 | 2011 | Miranna | 537616 | 6312223 | - | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 22-Aug-11 | 200 | - |
| 92910 | 2011 | Miranna | 537632 | 6311999 | 0.5 | soil | 3 | dk br | silt | well | abnt | - | - | abdt | 22-Aug-11 | 140 | - |
| 92911 | 2011 | Miranna | 537673 | 6312024 | 0.45 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 22-Aug-11 | 170 | - |
| 92912 | 2011 | Miranna | 537762 | 6312077 | 0.25 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 2 | abdt | 22-Aug-11 | 135 | - |
| 92913 | 2011 | Miranna | 537800 | 6312099 | 0.5 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | abdt | 22-Aug-11 | 100 | - |
| 92914 | 2011 | Miranna | 537848 | 6312126 | 0.35 | soil | 3 | lt br | silty sand | - | abnt | sub-ang | up to 2 | trace | 22-Aug-11 | 250 | - |
| 92915 | 2011 | Miranna | 537931 | 6312176 | 0.6 | soil | 3 | blk | silt | well | abnt | - | - | abdt | 22-Aug-11 | 190 | - |
| 92916 | 2011 | Miranna | 537973 | 6312200 | 0.45 | soil | 3 | med br | silty sand | well | abnt | sub-ang | up to 1 | trace | 22-Aug-11 | 250 | - |
| 92917 | 2011 | Miranna | 538018 | 6312227 | 0.65 | soil | 3 | blk | silt | well | abnt | - | - | abdt | 22-Aug-11 | 310 | - |
| 92918 | 2011 | Miranna | 538148 | 6312302 | 0.45 | soil | 3 | gy-br | silty sand | well | abnt | - | - | abdt | 22-Aug-11 | 170 | - |
| 92919 | 2011 | Miranna | 538193 | 6312328 | 0.4 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-rnd | up to 4 | trace | 22-Aug-11 | 180 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|-------------|----------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 92920 | 2011 | Miranna | 538233 | 6312352 | 0.4 | soil | 3 | dk br | silty clay | moderate | abnt | sub-ang | 3-4 | mod | 22-Aug-11 | 300 | - |
| 92921 | 2011 | Miranna | 538276 | 6312376 | - | soil | 2 | lt to med br | silty sand | poor | abnt | sub-ang to sub-rnd | up to 1 | trace | 22-Aug-11 | 115 | - |
| 92922 | 2011 | Miranna | 538322 | 6312402 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to sub-rnd | up to 7 | trace | 22-Aug-11 | 150 | - |
| 92923 | 2011 | Miranna | 538364 | 6312427 | 0.6 | soil | - | og-br | silty sand | well | abnt | - | - | abdt | 22-Aug-11 | 100 | - |
| 92924 | 2011 | Miranna | 538406 | 6312450 | 0.4 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | up to 4 | mod | 22-Aug-11 | 150 | - |
| 92925 | 2011 | Miranna | 538449 | 6312477 | 0.45 | soil | 3 | lt br | silty sand | poor | abnt | - | up to 3 | mod | 22-Aug-11 | 150 | - |
| 100726 | 2011 | MC | 540590 | 6310488 | 0.25 | soil | 2 | med br | silty sand | - | abnt | sub-ang | 1-3 | none | 26-Jul-11 | 130 | - |
| 100727 | 2011 | MC | 540547 | 6310462 | 0.5 | soil | 4 | gy-br | silty clay | - | abnt | sub-ang | 1 | abdt | 26-Jul-11 | 90 | - |
| 100728 | 2011 | MC | 540503 | 6310437 | 0.3 | soil | 3 | og-br | silty sand | - | abnt | sub-ang | 1-2 | mod | 26-Jul-11 | 130 | - |
| 100729 | 2011 | MC | 540456 | 6310410 | 0.3 | soil | 3 | dk br | silty clay | - | abnt | - | - | none | 26-Jul-11 | 100 | - |
| 100730 | 2011 | MC | 540359 | 6310585 | 0.45 | soil | 2 | med br | silty sand | - | abnt | - | - | none | 26-Jul-11 | 110 | - |
| 100731 | 2011 | MC | 540402 | 6310608 | 0.3 | soil | 4 | dk gy-br | silty clay | - | abnt | ang | 2-5 | none | 26-Jul-11 | 100 | - |
| 100732 | 2011 | MC | 540446 | 6310636 | 0.5 | soil | 3 | br | silty clay | - | abnt | sub-ang | 1-5 | mod | 26-Jul-11 | 110 | - |
| 100733 | 2011 | MC | 540562 | 6310239 | 0.4 | soil | 2 | og-br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 120 | - |
| 100734 | 2011 | MC | 540604 | 6310266 | 0.5 | soil | 2 | med br | silty sand | - | abnt | sub-rnd | 1 | mod | 26-Jul-11 | 110 | - |
| 100735 | 2011 | MC | 540647 | 6310292 | 0.4 | soil | 2 | med br | silty sand | - | abnt | sub-rnd | 5 | mod | 26-Jul-11 | 170 | - |
| 100736 | 2011 | MC | 540691 | 6310316 | 0.4 | soil | 5 | gy-br | clay | - | abnt | sub-ang | 3-7 | abdt | 26-Jul-11 | 160 | - |
| 100737 | 2011 | MC | 540731 | 6310337 | 0.45 | soil | 2 | r-br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 130 | - |
| 100738 | 2011 | MC | 540775 | 6310363 | 0.35 | soil | 3 | med br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 120 | - |
| 100739 | 2011 | MC | 540821 | 6310387 | 0.5 | soil | 2 | r-br | silty sand | - | abnt | - | - | mod | 26-Jul-11 | 110 | - |
| 100740 | 2011 | MC | 540863 | 6310414 | 0.2 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 190 | - |
| 100741 | 2011 | MC | 540905 | 6310439 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 120 | - |
| 100742 | 2011 | MC | 540950 | 6310464 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 240 | - |
| 100743 | 2011 | MC | 541034 | 6310515 | 0.35 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | 1-2 | mod | 27-Jul-11 | 85 | - |
| 100744 | 2011 | MC | 541079 | 6310540 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 90 | - |
| 100745 | 2011 | MC | 541121 | 6310565 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 80 | - |
| 100746 | 2011 | MC | 541165 | 6310590 | 0.2 | soil | 3 | lt br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 130 | - |
| 100747 | 2011 | MC | 541208 | 6310616 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 27-Jul-11 | 200 | - |
| 100748 | 2011 | MC | 541251 | 6310641 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 27-Jul-11 | 130 | - |
| 100749 | 2011 | MC | 541294 | 6310666 | 0.4 | soil | 2 | og-br | silty sand | well | abnt | - | - | none | 27-Jul-11 | 170 | - |
| 100750 | 2011 | MC | 541339 | 6310692 | 0.5 | soil | 4 | gy-br | silty clay | poor | abnt | sub-ang | 1-12 | trace | 27-Jul-11 | 70 | - |
| 101976 | 2011 | MC | 542475 | 6311122 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 85 | - |
| 101977 | 2011 | MC | 542434 | 6311098 | 0.6 | soil | 5 | dk br | clayey sand | moderate | abnt | sub-ang to oblate | 1-5 | mod | 27-Jul-11 | 45 | - |
| 101978 | 2011 | MC | 542303 | 6311021 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 95 | - |
| 101979 | 2011 | MC | 542260 | 6310995 | 0.3 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 27-Jul-11 | 115 | - |
| 101980 | 2011 | MC | 542216 | 6310971 | 0.4 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 27-Jul-11 | 90 | - |
| 101981 | 2011 | MC | 542173 | 6310944 | 0.3 | soil | 1 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 27-Jul-11 | 95 | - |
| 101982 | 2011 | MC | 542130 | 6310919 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-5 | trace | 27-Jul-11 | 100 | - |
| 101983 | 2011 | MC | 542086 | 6310895 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-3 | trace | 27-Jul-11 | 150 | - |
| 101984 | 2011 | MC | 542042 | 6310869 | 0.2 | soil | 4 | gy-br | clay | - | abnt | - | - | none | 28-Jul-11 | 100 | - |
| 101985 | 2011 | MC | 542001 | 6310844 | 0.4 | soil | 4 | gy-br | silty clay | - | abnt | sub-rnd | 1-4 | mod | 28-Jul-11 | 140 | - |
| 101986 | 2011 | MC | 541870 | 6310770 | 0.4 | soil | 4 | gy-br | silty clay | - | abnt | sub-ang | - | mod | 28-Jul-11 | 110 | - |
| 101987 | 2011 | MC | 541825 | 6310742 | - | soil | 2 | r-br | silty sand | - | abnt | sub-ang to oblate | 2-7 | trace | 28-Jul-11 | 110 | - |
| 101988 | 2011 | MC | 541785 | 6310721 | - | soil | 3 | gy-br | silty clay | - | abnt | - | - | trace | 28-Jul-11 | 80 | - |
| 101989 | 2011 | MC | 541741 | 6310694 | 0.3 | soil | 2 | og-br | silty sand | - | abnt | rnd | 1-2 | none | 28-Jul-11 | 110 | - |
| 101990 | 2011 | MC | 541698 | 6310668 | 0.4 | soil | 2 | gy-br | silty clay | - | abnt | sub-ang | 1-3 | mod | 28-Jul-11 | 100 | - |
| 101991 | 2011 | MC | 541655 | 6310643 | 0.15 | soil | 2 | med br | silty sand | - | abnt | sub-rnd | 1-3 | trace | 28-Jul-11 | 140 | - |
| 101992 | 2011 | MC | 541612 | 6310620 | 0.1 | soil | 4 | med br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 100 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|---------|------------|----------|-----------------------|--------------------|-----------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 101993 | 2011 | MC | 541566 | 6310593 | - | soil | 2 | og-br | silty sand | - | abnt | - | - | trace | 28-Jul-11 | 100 | - |
| 101994 | 2011 | MC | 541523 | 6310566 | 0.15 | soil | 2 | med br | silty sand | - | abnt | rnd | 1-2 | none | 28-Jul-11 | 130 | - |
| 101995 | 2011 | MC | 541482 | 6310543 | 0.5 | soil | 4 | og-br | silty sand | - | abnt | sub-ang | 1-3 | trace | 28-Jul-11 | 110 | - |
| 101996 | 2011 | MC | 541439 | 6310518 | 0.3 | soil | 2 | r-br | silty sand | - | abnt | sub-rnd | 1-2 | trace | 28-Jul-11 | 120 | - |
| 101997 | 2011 | MC | 541395 | 6310493 | 0.6 | soil | 2 | r-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 100 | - |
| 101998 | 2011 | MC | 541351 | 6310469 | 0.3 | soil | 2 | r-br | silty sand | - | abnt | - | - | none | 28-Jul-11 | 140 | - |
| 101999 | 2011 | MC | 541308 | 6310444 | 0.3 | soil | 2 | og-br | silty sand | - | abnt | rnd | 1-2 | none | 28-Jul-11 | 110 | - |
| 102000 | 2011 | MC | 541264 | 6310417 | 0.4 | soil | 3 | gy-br | clay | - | abnt | sub-rnd | 2-8 | trace | 28-Jul-11 | 100 | - |
| 104576 | 2011 | Off Grid | 539218 | 6312855 | 0.2 | soil | 2 | dk r-br | - | poor | abnt | sub-ang to sub-rnd | up to 1 | - | 2-Sep-11 | 7500 | - |
| 104577 | 2011 | Off Grid | 539210 | 6312866 | 0.2 | soil | 2 | dk r-br | sandy silt | poor | abnt | ang | - | mod | 2-Sep-11 | 9600 | - |
| 106801 | 2011 | West Rim | 534987 | 6313686 | 0.3 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 10 | trace | 17-Sep-11 | -1 | - |
| 106802 | 2011 | West Rim | 534922 | 6313673 | 0.2 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 310 | - |
| 106803 | 2011 | West Rim | 534885 | 6313641 | 0.25 | soil | 2 | med br | sandy silt | well | abnt | - | - | trace | 17-Sep-11 | 440 | - |
| 106804 | 2011 | West Rim | 534840 | 6313620 | 0.4 | soil | 3 | og-br | sandy silt | well | abnt | - | - | abdt | 17-Sep-11 | 450 | - |
| 106805 | 2011 | West Rim | 534798 | 6313590 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 360 | - |
| 106806 | 2011 | West Rim | 534752 | 6313562 | 0.4 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 350 | - |
| 106807 | 2011 | West Rim | 534711 | 6313542 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | none | 17-Sep-11 | 290 | - |
| 106808 | 2011 | West Rim | 534663 | 6313514 | 0.1 | soil | 3 | og-br | silty sand | poor | abnt | - | 1 | none | 17-Sep-11 | 190 | - |
| 106809 | 2011 | West Rim | 534622 | 6313494 | 0.45 | soil | 4 | med br | sandy silt | well | abnt | - | - | abdt | 17-Sep-11 | 80 | - |
| 106810 | 2011 | West Rim | 534580 | 6313466 | 0.25 | soil | 4 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 140 | - |
| 106811 | 2011 | West Rim | 534536 | 6313442 | 0.3 | soil | 4 | dk br | sandy silt | moderate | abnt | sub-ang | up to 3 | trace | 17-Sep-11 | 100 | - |
| 106812 | 2011 | West Rim | 534494 | 6313417 | 0.2 | soil | 3 | med br | sandy silt | well | abnt | - | - | abdt | 17-Sep-11 | 70 | - |
| 106813 | 2011 | West Rim | 534450 | 6313390 | - | soil | 4 | med br | silt | well | abnt | - | - | abdt | 17-Sep-11 | 50 | - |
| 106814 | 2011 | West Rim | 534392 | 6313389 | 0.3 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang | up to 3 | trace | 17-Sep-11 | 60 | - |
| 106815 | 2011 | West Rim | 534436 | 6313615 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 100 | - |
| 106816 | 2011 | West Rim | 534482 | 6313640 | 0.35 | soil | 4 | med br | sandy silt | well | abnt | - | - | abdt | 17-Sep-11 | 70 | - |
| 106817 | 2011 | West Rim | 534524 | 6313667 | 0.35 | soil | 3 | - | silty sand | poor | abnt | sub-ang | up to 4 | trace | 17-Sep-11 | 210 | - |
| 106818 | 2011 | West Rim | 534570 | 6313696 | 0.25 | soil | 2 | og-br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 160 | - |
| 106819 | 2011 | West Rim | 534611 | 6313714 | 0.25 | soil | 3 | med br | sandy silt | well | abnt | - | - | abdt | 17-Sep-11 | 170 | - |
| 106820 | 2011 | West Rim | 534651 | 6313742 | 0.2 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang to oblate | up to 4 | abdt | 17-Sep-11 | 290 | - |
| 106821 | 2011 | West Rim | 534694 | 6313763 | 0.45 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 360 | - |
| 106822 | 2011 | West Rim | 534741 | 6313790 | 0.25 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 280 | - |
| 106823 | 2011 | West Rim | 534783 | 6313816 | - | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | up to 4 | trace | 17-Sep-11 | 390 | - |
| 106824 | 2011 | West Rim | 534825 | 6313842 | 0.45 | soil | 4 | lt br | sandy silt | moderate | abnt | sub-ang | up tp 6 | abdt | 17-Sep-11 | 260 | - |
| 106825 | 2011 | West Rim | 534869 | 6313864 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 390 | - |
| 106826 | 2011 | West Rim | 534913 | 6313891 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 340 | - |
| 106827 | 2011 | West Rim | 534956 | 6313917 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 280 | - |
| 106828 | 2011 | West Rim | 534998 | 6313939 | 0.4 | soil | 4 | dk br | silt | well | abnt | - | - | abdt | 17-Sep-11 | 180 | - |
| 106829 | 2011 | West Rim | 535041 | 6313959 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 240 | - |
| 106830 | 2011 | West Rim | 535084 | 6313993 | 0.35 | soil | 3 | med br | silt | well | abnt | - | - | trace | 17-Sep-11 | 180 | - |
| 106831 | 2011 | West Rim | 535128 | 6314014 | 0.2 | soil | 2 | med br | sandy silt | moderate | abnt | sub-ang | up to 3 | trace | 17-Sep-11 | 180 | - |
| 106832 | 2011 | West Rim | 535175 | 6314043 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 440 | - |
| 106833 | 2011 | West Rim | 535216 | 6314068 | 0.3 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 17-Sep-11 | 760 | - |
| 106834 | 2011 | West Rim | 535262 | 6314092 | 0.25 | soil | 4 | dk br | silt | moderate | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 315 | - |
| 106835 | 2011 | West Rim | 535343 | 6314141 | 0.4 | soil | 4 | med br | silt | well | abnt | - | - | trace | 17-Sep-11 | 210 | - |
| 106836 | 2011 | West Rim | 535391 | 6314166 | 0.45 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 285 | - |
| 106837 | 2011 | West Rim | 535430 | 6314193 | 0.35 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 17-Sep-11 | 315 | - |
| 106838 | 2011 | West Rim | 535474 | 6314216 | 0.6 | soil | 3 | med br | sandy silt | moderate | abnt | - | up to 1 | trace | 17-Sep-11 | 500 | - |
| 106839 | 2011 | West Rim | 535518 | 6314244 | 0.3 | soil | 3 | med br | silty sand | well | abnt | - | - | trace | 17-Sep-11 | 450 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|-------------|----------|-----------------------|----------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 106840 | 2011 | West Rim | 535561 | 6314267 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 360 | - |
| 106841 | 2011 | West Rim | 535605 | 6314293 | 0.2 | soil | 3 | og-br | silty sand | poor | abnt | - | up to 2 | trace | 17-Sep-11 | 470 | - |
| 106842 | 2011 | West Rim | 535649 | 6314317 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | sub-ang to ang | up to 8 | trace | 18-Sep-11 | 425 | - |
| 106843 | 2011 | West Rim | 535688 | 6314340 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 2 | mod | 18-Sep-11 | 160 | - |
| 106844 | 2011 | West Rim | 535776 | 6314391 | 0.45 | soil | 4 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 220 | - |
| 106845 | 2011 | West Rim | 535822 | 6314419 | 0.65 | soil | 5 | dk br | sandy silt | poor | abnt | sub-ang | 1-2 | abdt | 18-Sep-11 | 230 | - |
| 106846 | 2011 | West Rim | 535864 | 6314442 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 4 | mod | 18-Sep-11 | 235 | - |
| 106847 | 2011 | West Rim | 535913 | 6314472 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | abdt | 18-Sep-11 | 160 | - |
| 106848 | 2011 | West Rim | 535952 | 6314491 | 0.15 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 220 | - |
| 106849 | 2011 | West Rim | 535850 | 6314664 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 190 | - |
| 106850 | 2011 | West Rim | 535722 | 6314591 | 0.55 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 245 | - |
| 106851 | 2011 | West Rim | 535678 | 6314565 | 0.3 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | up to 4 | mod | 18-Sep-11 | 230 | - |
| 106852 | 2011 | West Rim | 535635 | 6314538 | 0.4 | soil | 4 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 175 | - |
| 106853 | 2011 | West Rim | 535589 | 6314516 | 0.65 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 155 | - |
| 106854 | 2011 | West Rim | 535507 | 6314459 | 0.3 | soil | 2 | dk br | silty sand | well | abnt | - | - | mod | 18-Sep-11 | 280 | - |
| 106855 | 2011 | West Rim | 535461 | 6314441 | 0.5 | soil | 2 | med br | silty sand | well | abnt | - | - | mod | 18-Sep-11 | 290 | - |
| 106856 | 2011 | West Rim | 535418 | 6314414 | - | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | up to 2 | mod | 18-Sep-11 | 350 | - |
| 106857 | 2011 | West Rim | 535373 | 6314390 | 0.35 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 18-Sep-11 | 300 | - |
| 106858 | 2011 | West Rim | 535322 | 6314361 | 0.2 | soil | 2 | med br | clayey silt | moderate | abnt | - | - | trace | 18-Sep-11 | 260 | - |
| 106859 | 2011 | West Rim | 535288 | 6314341 | 0.3 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 220 | - |
| 106860 | 2011 | West Rim | 535243 | 6314315 | 0.3 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 10 | trace | 18-Sep-11 | 310 | - |
| 106861 | 2011 | West Rim | 535201 | 6314290 | 0.45 | soil | 2 | med br | sandy silt | moderate | abnt | - | up to 1 | trace | 18-Sep-11 | 310 | - |
| 106862 | 2011 | West Rim | 535157 | 6314267 | 0.35 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 10 | mod | 18-Sep-11 | 480 | - |
| 106863 | 2011 | West Rim | 535116 | 6314239 | 0.25 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 320 | - |
| 106864 | 2011 | West Rim | 535077 | 6314218 | 0.7 | soil | 3 | dk br | silt | poor | abnt | sub-ang | up to 1 | abdt | 18-Sep-11 | 210 | - |
| 106865 | 2011 | West Rim | 535023 | 6314188 | 0.2 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 230 | - |
| 106866 | 2011 | West Rim | 534984 | 6314166 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 380 | - |
| 106867 | 2011 | West Rim | 534936 | 6314135 | 0.5 | soil | 2 | og-br | silty sand | poor | abnt | ang | up to 30 | trace | 18-Sep-11 | 320 | - |
| 106868 | 2011 | West Rim | 534897 | 6314113 | 0.25 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | up to 7 | trace | 18-Sep-11 | 330 | - |
| 106869 | 2011 | West Rim | 534855 | 6314088 | 0.3 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 330 | - |
| 106870 | 2011 | West Rim | 534806 | 6314065 | 0.35 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 430 | - |
| 106871 | 2011 | West Rim | 534768 | 6314038 | 0.2 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 280 | - |
| 106872 | 2011 | West Rim | 534724 | 6314010 | 0.35 | soil | 3 | lt br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 440 | - |
| 106873 | 2011 | West Rim | 534636 | 6313962 | 0.4 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 170 | - |
| 106874 | 2011 | West Rim | 534595 | 6313938 | 0.4 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 1 | abdt | 18-Sep-11 | 190 | - |
| 106875 | 2011 | West Rim | 534548 | 6313910 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 150 | - |
| 106876 | 2011 | West Rim | 534510 | 6313887 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 160 | - |
| 106877 | 2011 | West Rim | 534465 | 6313861 | 0.1 | soil | 4 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 115 | - |
| 106878 | 2011 | West Rim | 534421 | 6313838 | 0.4 | soil | 4 | og-br | sandy silt | well | abnt | - | - | abdt | 18-Sep-11 | 75 | - |
| 106879 | 2011 | West Rim | 534377 | 6313814 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 18-Sep-11 | 100 | - |
| 106880 | 2011 | West Rim | 534335 | 6313788 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 18-Sep-11 | 120 | - |
| 106881 | 2011 | Miranna | 538196 | 6310939 | 0.4 | soil | 5 | og-br | silty sand | poor | abnt | sub-ang | up to 15 | abdt | 23-Sep-11 | 250 | - |
| 106882 | 2011 | Miranna | 538235 | 6310971 | 0.4 | soil | 4 | lt br | silt | poor | abnt | sub-ang | up to 2 | mod | 23-Sep-11 | 290 | - |
| 106883 | 2011 | Miranna | 538274 | 6310994 | 0.4 | soil | 3 | gy-br | sandy silt | moderate | abnt | sub-ang | up to 1 | mod | 23-Sep-11 | 560 | - |
| 106884 | 2011 | Miranna | 538322 | 6311012 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 23-Sep-11 | 440 | - |
| 106885 | 2011 | Miranna | 538363 | 6311046 | 0.4 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 23-Sep-11 | 230 | - |
| 106886 | 2011 | Miranna | 538405 | 6311065 | - | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 23-Sep-11 | 190 | - |
| 106887 | 2011 | Miranna | 538449 | 6311088 | 0.45 | soil | 3 | lt to med br | sandy silt | poor | abnt | sub-ang | up to 3 | trace | 23-Sep-11 | 200 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------------|----------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 106888 | 2011 | Miranna | 538491 | 6311116 | 0.5 | soil | 2 | med br | silty sand | well | abnt | - | - | none | 23-Sep-11 | 235 | - |
| 106889 | 2011 | Miranna | 538535 | 6311140 | 0.5 | soil | 4 | dk br | sandy silt | poor | abnt | sub-ang | up to 10 | mod | 23-Sep-11 | 225 | - |
| 106890 | 2011 | Miranna | 538573 | 6311160 | 0.3 | soil | 5 | dk br | silt | moderate | abnt | - | - | abdt | 23-Sep-11 | 180 | - |
| 106891 | 2011 | Miranna | 538621 | 6311190 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 23-Sep-11 | 185 | - |
| 106892 | 2011 | Miranna | 538667 | 6311212 | 0.3 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 23-Sep-11 | 110 | - |
| 106893 | 2011 | Miranna | 538706 | 6311239 | - | soil | 2 | med br | sandy silt | well | abnt | sub-ang | 2 | trace | 23-Sep-11 | 180 | - |
| 106894 | 2011 | Miranna | 538753 | 6311266 | 0.45 | soil | 2 | dk br | sandy silt | moderate | abnt | sub-ang | up to 5 | trace | 23-Sep-11 | 290 | - |
| 106895 | 2011 | Miranna | 538789 | 6311292 | 0.3 | soil | 2 | lt br | silty sand | well | abnt | sub-ang | up to 10 | trace | 23-Sep-11 | 150 | - |
| 106896 | 2011 | Miranna | 538833 | 6311316 | 0.45 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang to oblate | up to 8 | trace | 23-Sep-11 | -1 | - |
| 106897 | 2011 | Miranna | 538877 | 6311340 | 0.6 | soil | 5 | med br | silty sand | moderate | abnt | sub-ang | 1 | trace | 23-Sep-11 | 160 | - |
| 106898 | 2011 | Miranna | 538927 | 6311363 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | - | - | - | 23-Sep-11 | 220 | - |
| 106899 | 2011 | Miranna | 538970 | 6311388 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 23-Sep-11 | 315 | - |
| 106900 | 2011 | Miranna | 539011 | 6311415 | 0.45 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | 1 | trace | 23-Sep-11 | 300 | - |
| 107301 | 2011 | Miranna | 538492 | 6312503 | 0.3 | soil | 3 | med br | silt | poor | abnt | - | up to 2 | mod | 24-Aug-11 | 185 | - |
| 107302 | 2011 | Miranna | 538537 | 6312525 | 0.4 | soil | 3 | dk br-blk | silt | well | abnt | - | - | abdt | 24-Aug-11 | 140 | - |
| 107303 | 2011 | Miranna | 538578 | 6312555 | 0.6 | soil | 3 | dk gy-br | silt | well | abnt | - | - | mod | 24-Aug-11 | 85 | - |
| 107304 | 2011 | Miranna | 538623 | 6312580 | 0.35 | soil | 2 | lt og-br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | none | 24-Aug-11 | 140 | - |
| 107305 | 2011 | Miranna | 538665 | 6312604 | 0.45 | soil | 2 | r-br | silty sand | poor | abnt | - | up to 5 | trace | 24-Aug-11 | 165 | - |
| 107306 | 2011 | Miranna | 538709 | 6312630 | 0.4 | soil | 3 | dk br-blk | silt | well | abnt | - | - | abdt | 24-Aug-11 | 100 | - |
| 107307 | 2011 | Miranna | 538752 | 6312653 | 0.4 | soil | 3 | dk br | silt | well | abnt | - | - | abdt | 24-Aug-11 | 100 | - |
| 107308 | 2011 | Miranna | 538797 | 6312680 | 0.35 | soil | 2 | og-br | silty clay | poor | abnt | ang to oblate | up to 1 | mod | 24-Aug-11 | 140 | - |
| 107309 | 2011 | Miranna | 538840 | 6312703 | 0.4 | soil | 1 | og-br | sand | poor | abnt | ang to oblate | up to 1 | trace | 24-Aug-11 | 135 | - |
| 107310 | 2011 | Miranna | 538883 | 6312731 | 0.35 | soil | 3 | med to dk br | silty sand | moderate | abnt | - | - | abdt | 24-Aug-11 | 130 | - |
| 107311 | 2011 | Miranna | 538923 | 6312754 | 0.65 | soil | 5 | med br | silty sand | poor | abnt | ang | up to 2 | mod | 24-Aug-11 | 115 | - |
| 107312 | 2011 | Miranna | 538969 | 6312783 | 0.45 | soil | 2 | med og-br | silty sand | poor | abnt | ang to oblate | up to 1 | abdt | 24-Aug-11 | 170 | - |
| 107313 | 2011 | Miranna | 539010 | 6312805 | 0.4 | soil | 2 | med br | silt | moderate | abnt | sub-ang | up to 1 | abdt | 24-Aug-11 | 415 | - |
| 107314 | 2011 | Miranna | 539113 | 6312629 | 0.25 | soil | 2 | med og-br | silty sand | moderate | abnt | ang | up to 1 | abdt | 24-Aug-11 | 160 | - |
| 107315 | 2011 | Miranna | 539072 | 6312607 | 0.45 | soil | 2 | r-br | silty sand | moderate | abnt | ang | up to 1 | abdt | 24-Aug-11 | 215 | - |
| 107316 | 2011 | Miranna | 539026 | 6312583 | 0.45 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 24-Aug-11 | 160 | - |
| 107317 | 2011 | Miranna | 538981 | 6312556 | 0.5 | soil | 3 | med gy-tan | silty sand | poor | abnt | sub-rnd to sub-ang | up to 2 | mod | 24-Aug-11 | 180 | - |
| 107318 | 2011 | Miranna | 538940 | 6312533 | 0.45 | soil | 3 | dk br-blk | clay | well | abnt | - | - | abdt | 24-Aug-11 | 120 | - |
| 107319 | 2011 | Miranna | 538896 | 6312508 | 0.5 | soil | 3 | med gy-br | silty sand | poor | abnt | sub-ang | up to 2 | abdt | 24-Aug-11 | 140 | - |
| 107320 | 2011 | Miranna | 538853 | 6312479 | 0.7 | soil | 3 | med to dk br | clay | poor | abnt | oblate | up to 20 | abdt | 24-Aug-11 | 170 | - |
| 107321 | 2011 | Miranna | 538807 | 6312458 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 24-Aug-11 | 215 | - |
| 107322 | 2011 | Miranna | 538765 | 6312431 | 0.45 | soil | 2 | med to dk br | silty sand | poor | abnt | sub-ang | up to 1 | abdt | 24-Aug-11 | 110 | - |
| 107323 | 2011 | Miranna | 538725 | 6312406 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to oblate | up to 5 | mod | 24-Aug-11 | 150 | - |
| 107324 | 2011 | Miranna | 538681 | 6312381 | 0.3 | soil | 4 | dk br | silty sand | poor | abnt | ang to oblate | up to 5 | mod | 24-Aug-11 | 215 | - |
| 107325 | 2011 | Miranna | 538638 | 6312354 | 0.6 | soil | 4 | dk br-blk | silt | well | abnt | - | - | abdt | 24-Aug-11 | 120 | - |
| 107326 | 2011 | Miranna | 538590 | 6312330 | 0.55 | soil | 4 | med gy-tan | silty clay | poor | abnt | sub-ang | up to 3 | mod | 24-Aug-11 | 110 | - |
| 107327 | 2011 | Miranna | 538551 | 6312304 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 24-Aug-11 | 140 | - |
| 107328 | 2011 | Miranna | 538418 | 6312231 | 0.35 | soil | 3 | dk gy-br | silt | poor | abnt | ang to sub-ang | up to 2 | abdt | 24-Aug-11 | 125 | - |
| 107329 | 2011 | Miranna | 538377 | 6312204 | 0.5 | soil | 3 | med gy-br | silty clay | moderate | abnt | sub-ang | up to 1 | abdt | 24-Aug-11 | 135 | - |
| 107330 | 2011 | Miranna | 538338 | 6312177 | 0.25 | soil | 3 | lt br | silt | moderate | abnt | sub-rnd | pebble | trace | 26-Aug-11 | 140 | - |
| 107331 | 2011 | Miranna | 538290 | 6312157 | 0.3 | soil | 3 | br | sandy silt | moderate | abnt | ang to oblate | pebble | trace | 26-Aug-11 | 160 | - |
| 107332 | 2011 | Miranna | 538251 | 6312130 | 0.45 | soil | 3 | dk gy-br | silt | moderate | abnt | sub-ang to sub-rnd | pebble | trace | 26-Aug-11 | 270 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|-------------------|----------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107333 | 2011 | Miranna | 538208 | 6312102 | 0.5 | soil | 3 | dk br | silty sand | poor | abnt | sub-rnd to sub-ang | pebble | abdt | 26-Aug-11 | 275 | - |
| 107334 | 2011 | Miranna | 538160 | 6312081 | 0.3 | soil | 3 | dk gy-br | silt | moderate | abnt | ang to rnd | pebble | abdt | 26-Aug-11 | 170 | - |
| 107335 | 2011 | Miranna | 538116 | 6312054 | 0.5 | soil | 3 | dk gy-br | silt | poor | abnt | ang to sub-ang | pebble | abdt | 26-Aug-11 | 180 | - |
| 107336 | 2011 | Miranna | 538076 | 6312030 | - | soil | 4 | dk r-br | silt | well | abnt | ang | pebble | mod | 26-Aug-11 | 250 | - |
| 107337 | 2011 | Miranna | 538031 | 6312002 | 0.5 | soil | 3 | br | sandy silt | moderate | abnt | ang to sub-ang | pebble | mod | 26-Aug-11 | 240 | - |
| 107338 | 2011 | Miranna | 537987 | 6311977 | 0.5 | soil | 4 | lt y-br | silt | poor | abnt | ang to sub-ang | pebble | trace | 26-Aug-11 | 200 | - |
| 107339 | 2011 | Miranna | 537945 | 6311951 | 0.3 | soil | 2 | med r-br | sand | poor | abnt | ang to sub-ang | pebble | abdt | 26-Aug-11 | 350 | - |
| 107340 | 2011 | Miranna | 537900 | 6311927 | 0.6 | soil | 4 | og-br | sandy silt | moderate | abnt | rnd to sub-ang | pebble | - | 26-Aug-11 | 500 | - |
| 107341 | 2011 | Miranna | 537861 | 6311901 | 0.5 | soil | 2 | gy-br | silt | well | abnt | ang | pebble | abdt | 26-Aug-11 | 160 | - |
| 107342 | 2011 | Miranna | 537813 | 6311878 | 0.2 | soil | 4 | med gy-br | sandy silt | moderate | abnt | ang to sub-rnd | pebble | mod | 26-Aug-11 | 130 | - |
| 107343 | 2011 | Miranna | 537353 | 6312073 | 0.3 | soil | 3 | med gy-br | silty sand | moderate | abnt | rnd | pebble | abdt | 26-Aug-11 | 350 | - |
| 107344 | 2011 | Miranna | 537314 | 6312045 | 0.1 | soil | 2 | br | sand | poor | abnt | ang to rnd | pebble | mod | 26-Aug-11 | 140 | - |
| 107345 | 2011 | Miranna | 537268 | 6312021 | 0.2 | soil | 3 | og-br | sand | moderate | abnt | ang to sub-ang | pebble | mod | 26-Aug-11 | 180 | - |
| 107346 | 2011 | Miranna | 537233 | 6312005 | 0.4 | soil | 2 | og-br | f.g. to m.g. sand | moderate | abnt | ang | pebble | abdt | 26-Aug-11 | 450 | - |
| 107347 | 2011 | Miranna | 537413 | 6311874 | 0.3 | soil | 3 | lt gy-br | silty sand | moderate | abnt | ang to sub-ang | pebble | mod | 26-Aug-11 | 180 | - |
| 107348 | 2011 | Miranna | 537457 | 6311896 | - | soil | 3 | lt gy-br | sand | moderate | abnt | ang | pebble | mod | 26-Aug-11 | 130 | - |
| 107349 | 2011 | Miranna | 537491 | 6311919 | - | soil | 4 | lt gy-br | silty clay | poor | abnt | ang to sub-ang | pebble | mod | 26-Aug-11 | 170 | - |
| 107350 | 2011 | Miranna | 537645 | 6311777 | 0.2 | soil | 3 | lt gy-br | sand | moderate | abnt | - | up to 1 | trace | 28-Aug-11 | 180 | - |
| 107351 | 2011 | Miranna | 537593 | 6311750 | 0.4 | soil | 3 | lt gr | silt | moderate | abnt | sub-rnd | pebble | abdt | 27-Aug-11 | 170 | - |
| 107352 | 2011 | Miranna | 537558 | 6311725 | 0.3 | soil | 3 | med gy-br | silt | well | abnt | rnd | pebble | abdt | 28-Aug-11 | 230 | - |
| 107353 | 2011 | Miranna | 537511 | 6311700 | 0.5 | soil | 3 | med br | sand | moderate | abnt | sub-ang | pebble | trace | 28-Aug-11 | 101 | - |
| 107354 | 2011 | Miranna | 537479 | 6311673 | 0.5 | soil | 3 | og-br | sand | poor | abnt | ang to rnd | pebble | abdt | 28-Aug-11 | 120 | - |
| 107356 | 2011 | Miranna | 537484 | 6311450 | 0.2 | soil | 3 | lt to med br | silty sand | moderate | abnt | ang to oblate | pebble | mod | 28-Aug-11 | 700 | - |
| 107357 | 2011 | Miranna | 537528 | 6311479 | 0.3 | soil | 3 | med br | silty sand | moderate | abnt | sub-rnd | pebble | abdt | 28-Aug-11 | 350 | - |
| 107358 | 2011 | Miranna | 537874 | 6311681 | 0.3 | soil | 3 | med gy-br | sandy silt | moderate | abnt | rnd | pebble | abdt | 28-Aug-11 | 120 | - |
| 107359 | 2011 | Miranna | 537914 | 6311706 | 0.15 | soil | 3 | med br | sandy silt | moderate | abnt | rnd to sub-rnd | pebble | mod | 28-Aug-11 | 160 | - |
| 107360 | 2011 | Miranna | 537960 | 6311729 | 0.15 | soil | 3 | lt br | silty sand | moderate | abnt | rnd | pebble | mod | 28-Aug-11 | 400 | - |
| 107361 | 2011 | Miranna | 538001 | 6311752 | 0.25 | soil | 2 | med br | silty sand | well | abnt | - | - | mod | 28-Aug-11 | 250 | - |
| 107362 | 2011 | Miranna | 538048 | 6311779 | 0.25 | soil | 3 | med br | silty sand | well | abnt | rnd | pebble | abdt | 28-Aug-11 | 400 | - |
| 107363 | 2011 | Miranna | 538089 | 6311804 | 0.35 | soil | 3 | lt gy-br | silty sand | poor | abnt | ang to sub-rnd | pebble | mod | 28-Aug-11 | 500 | - |
| 107364 | 2011 | Miranna | 538176 | 6311858 | 0.4 | soil | 3 | dk br-blk | silt | well | abnt | ang to oblate | pebble | abdt | 28-Aug-11 | 200 | - |
| 107365 | 2011 | Miranna | 538220 | 6311881 | 0.3 | soil | 3 | dk br | sandy silt | well | abnt | ang | pebble | abdt | 28-Aug-11 | 130 | - |
| 107366 | 2011 | Miranna | 538302 | 6311928 | 0.5 | soil | 3 | dk br-blk | sandy silt | poor | abnt | sub-rnd | pebble | abdt | 28-Aug-11 | 200 | - |
| 107367 | 2011 | Miranna | 538349 | 6311954 | 0.2 | soil | 2 | med br | sandy silt | well | abnt | sub-rnd | pebble | trace | 28-Aug-11 | 400 | - |
| 107368 | 2011 | Miranna | 538391 | 6311979 | 0.3 | soil | 2 | med br | sandy silt | poor | abnt | ang | pebble | abdt | 28-Aug-11 | 230 | - |
| 107369 | 2011 | Miranna | 538439 | 6312007 | 0.4 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | pebble | abdt | 28-Aug-11 | 160 | - |
| 107370 | 2011 | Miranna | 538477 | 6312032 | 0.4 | soil | 2 | med br | sandy silt | well | abnt | - | - | mod | 28-Aug-11 | 150 | - |
| 107371 | 2011 | Miranna | 538524 | 6312054 | 0.5 | soil | 3 | lt br | sandy silt | poor | abnt | ang | pebble | mod | 28-Aug-11 | 120 | - |
| 107372 | 2011 | Miranna | 538565 | 6312081 | 0.4 | soil | 3 | med br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 170 | - |
| 107373 | 2011 | Miranna | 538611 | 6312115 | 0.2 | soil | 2 | og-br | sand | well | abnt | - | - | abdt | 28-Aug-11 | 170 | - |
| 107374 | 2011 | Miranna | 538653 | 6312133 | 0.25 | soil | 3 | med gy-br | sandy silt | moderate | abnt | sub-ang | pebble | mod | 28-Aug-11 | 150 | - |
| 107375 | 2011 | Miranna | 538695 | 6312158 | 0.6 | soil | 2 | og-br | f.g. sand | moderate | abnt | ang to oblate | pebble | mod | 28-Aug-11 | 130 | - |
| 107376 | 2011 | Miranna | 538739 | 6312183 | 0.65 | soil | 3 | lt br | silty sand | moderate | abnt | sub-rnd | pebble | mod | 28-Aug-11 | 110 | - |
| 107377 | 2011 | Miranna | 538781 | 6312209 | 0.4 | soil | 2 | lt br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 90 | - |
| 107378 | 2011 | Miranna | 538821 | 6312236 | 0.15 | soil | 5 | dk br | f.g. sand | well | abnt | - | - | abdt | 28-Aug-11 | 100 | - |
| 107379 | 2011 | Miranna | 538870 | 6312261 | 0.5 | soil | 2 | med br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 200 | - |
| 107380 | 2011 | Miranna | 538909 | 6312282 | 0.2 | soil | 3 | med br | silty sand | well | abnt | - | - | mod | 28-Aug-11 | 170 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|------------|----------|-----------------------|--------------------|-----------|----------|-----------|------|--|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107381 | 2011 | Miranna | 538954 | 6312307 | 0.25 | soil | 2 | og-br | sandy silt | well | abnt | - | - | abdt | 28-Aug-11 | 215 | - |
| 107382 | 2011 | Miranna | 538996 | 6312334 | 0.25 | soil | 2 | og-br | sandy silt | poor | abnt | ang | pebble | abdt | 28-Aug-11 | 250 | - |
| 107383 | 2011 | Miranna | 539042 | 6312359 | 0.3 | soil | 2 | og-br | f.g. sand | moderate | abnt | ang to sub-ang | pebble | abdt | 28-Aug-11 | 130 | - |
| 107384 | 2011 | Miranna | 539128 | 6312407 | 0.45 | soil | 2 | lt br | sandy silt | moderate | abnt | ang to oblate | pebble | abdt | 28-Aug-11 | 150 | - |
| 107385 | 2011 | Miranna | 539172 | 6312437 | 0.2 | soil | 3 | med br | silt | moderate | abnt | ang to oblate | pebble | abdt | 28-Aug-11 | 160 | - |
| 107386 | 2011 | Miranna | 539212 | 6312459 | 0.35 | soil | 2 | dk br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 190 | - |
| 107387 | 2011 | Miranna | 539269 | 6312267 | 0.5 | soil | 2 | med br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 115 | - |
| 107388 | 2011 | Miranna | 539224 | 6312235 | 0.4 | soil | 3 | med br | silt | well | abnt | - | - | abdt | 28-Aug-11 | 100 | - |
| 107389 | 2011 | Miranna | 539143 | 6312185 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | ang | pebble | abdt | 28-Aug-11 | 80 | - |
| 107390 | 2011 | Miranna | 539097 | 6312162 | 0.3 | soil | 2 | dk gy-br | silty sand | well | abnt | - | - | abdt | 28-Aug-11 | 120 | - |
| 107391 | 2011 | Miranna | 539057 | 6312135 | - | soil | 3 | med br | silt | moderate | abnt | sub-ang | pebble | abdt | 28-Aug-11 | 160 | - |
| 107392 | 2011 | Miranna | 539009 | 6312110 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 170 | - |
| 107393 | 2011 | Miranna | 538967 | 6312085 | 0.35 | soil | 2 | og-br | sandy silt | well | abnt | - | - | trace | 29-Aug-11 | 185 | - |
| 107394 | 2011 | Miranna | 538911 | 6312048 | 0.2 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang to oblate | 2 | trace | 29-Aug-11 | 150 | - |
| 107395 | 2011 | Miranna | 538837 | 6312009 | 0.3 | soil | 3 | dk br | sandy silt | moderate | abnt | sub-rnd | 2 | trace | 29-Aug-11 | 190 | - |
| 107396 | 2011 | Miranna | 538794 | 6311985 | 0.35 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | 2 | trace | 29-Aug-11 | 150 | - |
| 107397 | 2011 | Miranna | 538751 | 6311959 | 0.3 | soil | 4 | med br | sandy silt | moderate | abnt | sub-rnd | 1 | trace | 29-Aug-11 | 125 | - |
| 107398 | 2011 | Miranna | 538707 | 6311934 | 0.1 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 29-Aug-11 | 2000 | Taken from boulder field on top of hot boulder |
| 107399 | 2011 | Miranna | 538666 | 6311908 | 0.35 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 1 | abdt | 29-Aug-11 | 270 | - |
| 107400 | 2011 | Miranna | 538623 | 6311884 | 0.4 | soil | 2 | r-br | sandy silt | moderate | abnt | - | - | trace | 29-Aug-11 | 175 | - |
| 107401 | 2011 | Miranna | 538578 | 6311859 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 200 | - |
| 107402 | 2011 | Miranna | 538535 | 6311832 | 0.45 | soil | 4 | dk br | sandy silt | poor | abnt | sub-ang | up to 1 | abdt | 29-Aug-11 | 105 | - |
| 107403 | 2011 | Miranna | 538491 | 6311808 | 0.4 | soil | 3 | dk br | silty sand | poor | abnt | sub-ang | up to 1 | mod | 29-Aug-11 | 135 | - |
| 107404 | 2011 | Miranna | 538448 | 6311784 | 0.4 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 6 | trace | 29-Aug-11 | 130 | - |
| 107405 | 2011 | Miranna | 538407 | 6311758 | 0.35 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 29-Aug-11 | 900 | In hot boulder field; 1800 cps in hole |
| 107406 | 2011 | Miranna | 538363 | 6311733 | 0.25 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang to ang | up to 2 | trace | 29-Aug-11 | 200 | - |
| 107407 | 2011 | Miranna | 538319 | 6311707 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 300 | - |
| 107408 | 2011 | Miranna | 538276 | 6311682 | 0.3 | soil | 3 | dk br-blk | silt | moderate | abnt | sub-ang | up to 1 | abdt | 29-Aug-11 | 240 | - |
| 107409 | 2011 | Miranna | 538188 | 6311633 | 0.3 | soil | 3 | dk br | sandy silt | well | abnt | - | - | abdt | 29-Aug-11 | 180 | - |
| 107410 | 2011 | Miranna | 538147 | 6311606 | 0.25 | soil | 3 | dk br | sandy silt | well | abnt | - | - | trace | 29-Aug-11 | 400 | - |
| 107411 | 2011 | Miranna | 538105 | 6311584 | 0.45 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 250 | - |
| 107412 | 2011 | Miranna | 537975 | 6311507 | 0.2 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 200 | - |
| 107413 | 2011 | Miranna | 537929 | 6311482 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 140 | - |
| 107414 | 2011 | Miranna | 537887 | 6311454 | 0.3 | soil | 3 | med br | sandy silt | well | abnt | - | - | abdt | 29-Aug-11 | 220 | - |
| 107415 | 2011 | Miranna | 537801 | 6311406 | 0.3 | soil | 5 | dk br | sandy silt | poor | abnt | sub-ang | up to 1 | abdt | 29-Aug-11 | 750 | - |
| 107416 | 2011 | Miranna | 537758 | 6311380 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to sub-rnd | up to 4 | trace | 29-Aug-11 | 800 | - |
| 107417 | 2011 | Miranna | 537626 | 6311304 | 0.2 | soil | 3 | gy-br | sandy clay | moderate | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 115 | - |
| 107418 | 2011 | Miranna | 537585 | 6311280 | 0.15 | soil | 3 | lt gy-br | sandy clay | moderate | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 125 | - |
| 107419 | 2011 | Miranna | 537542 | 6311255 | 0.25 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 130 | - |
| 107420 | 2011 | Miranna | 537498 | 6311231 | 0.2 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | 140 | - |
| 107421 | 2011 | Miranna | 537455 | 6311205 | 0.2 | soil | 3 | med gy-br | - | poor | abnt | ang to sub-ang | up to 2 | trace | 29-Aug-11 | 120 | - |
| 107422 | 2011 | Miranna | 537412 | 6311178 | 0.35 | soil | 2 | r-br | sandy silt | well | abnt | - | - | trace | 29-Aug-11 | 120 | - |
| 107423 | 2011 | Miranna | 537383 | 6310930 | 0.2 | soil | 3 | dk br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 29-Aug-11 | 80 | - |
| 107424 | 2011 | Miranna | 537426 | 6310956 | 0.3 | soil | 3 | dk br | sandy silt | well | abnt | - | - | abdt | 29-Aug-11 | 65 | - |
| 107425 | 2011 | Miranna | 537470 | 6310982 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 29-Aug-11 | 105 | - |
| 107426 | 2011 | Miranna | 537513 | 6311006 | 0.1 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 29-Aug-11 | -1 | Sample taken from under a fallen tree |
| 107427 | 2011 | Miranna | 537556 | 6311031 | 0.3 | soil | 3 | dk br | sandy silt | poor | abnt | sub-ang to sub-rnd | 2-5 | trace | 29-Aug-11 | 100 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|-------------|----------|-----------------------|----------------|-----------|----------|-----------|-----|------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107428 | 2011 | Miranna | 537597 | 6311055 | 0.2 | soil | 2 | og-br | sand | poor | abnt | ang to sub-rnd | pebble | mod | 30-Aug-11 | 120 | - |
| 107429 | 2011 | Miranna | 537644 | 6311082 | 0.2 | soil | 2 | og-br | sand | moderate | abnt | sub-ang | pebble | mod | 30-Aug-11 | 120 | - |
| 107430 | 2011 | Miranna | 537685 | 6311107 | 0.25 | soil | 2 | lt gy | sand | poor | abnt | ang | pebble | abdt | 30-Aug-11 | 120 | - |
| 107431 | 2011 | Miranna | 537728 | 6311130 | 0.35 | soil | 3 | lt gy | sandy silt | poor | abnt | sub-rnd | pebble | abdt | 30-Aug-11 | 120 | - |
| 107432 | 2011 | Miranna | 537770 | 6311155 | 0.15 | soil | 4 | lt gy-tan | clay | moderate | abnt | rnd | pebble | trace | 30-Aug-11 | 160 | - |
| 107433 | 2011 | Miranna | 537856 | 6311215 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | rnd | pebble | abdt | 30-Aug-11 | 700 | - |
| 107434 | 2011 | Miranna | 537947 | 6311270 | 0.25 | soil | 3 | dk gy-br | sandy silt | poor | abnt | sub-rnd | pebble | abdt | 30-Aug-11 | 220 | - |
| 107435 | 2011 | Miranna | 537989 | 6311284 | 0.25 | soil | 2 | med gy-br | sandy silt | poor | abnt | ang | pebble | abdt | 30-Aug-11 | 220 | - |
| 107436 | 2011 | Miranna | 538026 | 6311309 | 0.2 | soil | 3 | med br | sandy silt | poor | abnt | ang to sub-ang | pebble | abdt | 30-Aug-11 | 220 | - |
| 107437 | 2011 | Miranna | 538159 | 6311381 | 0.4 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | pebble | abdt | 30-Aug-11 | 390 | - |
| 107438 | 2011 | Miranna | 538206 | 6311410 | 0.3 | soil | 2 | med br | sandy silt | well | abnt | sub-rnd | pebble | abdt | 30-Aug-11 | 680 | - |
| 107439 | 2011 | Miranna | 538250 | 6311433 | 0.2 | soil | 3 | dk br | silt | poor | abnt | ang | pebble | abdt | 30-Aug-11 | 700 | - |
| 107440 | 2011 | Miranna | 538287 | 6311462 | 0.1 | soil | 3 | lt br | silt | poor | abnt | ang to sub-rnd | pebble | trace | 30-Aug-11 | 300 | - |
| 107441 | 2011 | Miranna | 538336 | 6311487 | 0.3 | soil | 3 | dk br | silt | poor | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 250 | - |
| 107442 | 2011 | Miranna | 538378 | 6311510 | 0.2 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | pebble | mod | 30-Aug-11 | 300 | - |
| 107443 | 2011 | Miranna | 538416 | 6311539 | 0.45 | soil | 5 | med br | sandy silt | poor | abnt | sub-ang | pebble | abdt | 30-Aug-11 | 950 | cps ranges from 300-1600 cps |
| 107444 | 2011 | Miranna | 538464 | 6311559 | 0.3 | soil | 3 | lt gy-br | silt | poor | abnt | sub-ang | pebble | mod | 30-Aug-11 | 160 | - |
| 107445 | 2011 | Miranna | 538500 | 6311599 | 0.15 | soil | 4 | lt gy-br | clay | poor | abnt | ang to sub-ang | pebble | trace | 30-Aug-11 | 220 | - |
| 107446 | 2011 | Miranna | 538549 | 6311608 | 0.2 | soil | 3 | med gy-br | sandy silt | poor | abnt | ang | pebble | mod | 30-Aug-11 | 180 | - |
| 107447 | 2011 | Miranna | 538593 | 6311633 | 0.25 | soil | 2 | r-br | silty sand | well | abnt | - | - | abdt | 30-Aug-11 | 270 | - |
| 107448 | 2011 | Miranna | 538636 | 6311659 | 0.25 | soil | 2 | og-br | sandy silt | moderate | abnt | ang | pebble | mod | 30-Aug-11 | 260 | - |
| 107449 | 2011 | Miranna | 538682 | 6311690 | 0.35 | soil | 2 | med br | silty sand | moderate | abnt | ang | pebble | trace | 30-Aug-11 | 170 | - |
| 107450 | 2011 | Miranna | 538724 | 6311712 | - | soil | 3 | med br | silty sand | well | abnt | ang | pebble | abdt | 30-Aug-11 | 300 | - |
| 107451 | 2011 | Miranna | 538765 | 6311735 | 0.25 | soil | 3 | dk br | silt | moderate | abnt | rnd | pebble | abdt | 30-Aug-11 | 170 | - |
| 107452 | 2011 | Miranna | 538809 | 6311760 | 0.3 | soil | 2 | dk br | silt | poor | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 200 | - |
| 107453 | 2011 | Miranna | 538853 | 6311785 | 0.4 | soil | 2 | r-br | sandy silt | poor | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 450 | - |
| 107454 | 2011 | Miranna | 538895 | 6311812 | 0.15 | soil | 2 | med br | silty sand | moderate | abnt | ang | pebble | abdt | 30-Aug-11 | 165 | - |
| 107455 | 2011 | Miranna | 538936 | 6311839 | 0.25 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | pebble | mod | 30-Aug-11 | 145 | - |
| 107456 | 2011 | Miranna | 538984 | 6311861 | 0.25 | soil | 3 | dk gy-br | silt | moderate | abnt | sub-rnd | pebble | abdt | 30-Aug-11 | 140 | - |
| 107457 | 2011 | Miranna | 539020 | 6311886 | 0.2 | soil | 3 | dk br | silt | well | abnt | - | - | abdt | 30-Aug-11 | 40 | - |
| 107458 | 2011 | Miranna | 539069 | 6311914 | 0.4 | soil | 3 | med br | silt | moderate | abnt | sub-ang to ang | pebble | mod | 30-Aug-11 | 123 | - |
| 107459 | 2011 | Miranna | 539109 | 6311937 | 0.4 | soil | 3 | med br | silt | moderate | abnt | ang | pebble | abdt | 30-Aug-11 | 150 | - |
| 107460 | 2011 | Miranna | 539152 | 6311962 | 0.3 | soil | 2 | dk br | sandy silt | moderate | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 145 | - |
| 107461 | 2011 | Miranna | 539196 | 6311988 | 0.2 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | pebble | abdt | 30-Aug-11 | 140 | - |
| 107462 | 2011 | Miranna | 539240 | 6312019 | 0.4 | soil | 3 | dk gy-br | silt | well | abnt | - | - | mod | 30-Aug-11 | 90 | - |
| 107463 | 2011 | Miranna | 539287 | 6312041 | 0.2 | soil | 2 | lt br | silt | moderate | abnt | ang | pebble | mod | 30-Aug-11 | 170 | - |
| 107464 | 2011 | Miranna | 539328 | 6312064 | 0.2 | soil | 2 | og-br | v.f.g. sand | well | abnt | rnd | pebble | abdt | 30-Aug-11 | 200 | - |
| 107465 | 2011 | Miranna | 539376 | 6312086 | 0.4 | soil | 2 | dk br-blk | silt | moderate | abnt | ang | pebble | abdt | 30-Aug-11 | 160 | - |
| 107466 | 2011 | Miranna | 539412 | 6312113 | 0.3 | soil | 2 | med br | v.f.g. sand | well | abnt | - | - | abdt | 30-Aug-11 | 170 | - |
| 107467 | 2011 | Miranna | 539514 | 6311937 | 0.4 | soil | 3 | dk br | silt | well | abnt | - | - | abdt | 30-Aug-11 | 110 | - |
| 107468 | 2011 | Miranna | 539472 | 6311918 | 0.4 | soil | 2 | lt br | silty sand | well | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 200 | - |
| 107469 | 2011 | Miranna | 539429 | 6311890 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | ang to oblate | pebble | abdt | 30-Aug-11 | 210 | - |
| 107470 | 2011 | Miranna | 539387 | 6311860 | 0.3 | soil | 3 | dk br | silt | well | abnt | - | - | abdt | 30-Aug-11 | 200 | - |
| 107471 | 2011 | Miranna | 539342 | 6311836 | 0.45 | soil | 3 | med br | sandy silt | well | abnt | - | - | abdt | 30-Aug-11 | 170 | - |
| 107472 | 2011 | Miranna | 539300 | 6311815 | 0.2 | soil | 2 | lt br | silt | well | abnt | ang | pebble | mod | 30-Aug-11 | 120 | - |
| 107473 | 2011 | Miranna | 539256 | 6311796 | 0.25 | soil | 2 | lt og-br | v.f.g. sand | moderate | abnt | ang | pebble | abdt | 30-Aug-11 | 155 | - |
| 107474 | 2011 | Miranna | 539213 | 6311768 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | ang to sub-ang | pebble | abdt | 30-Aug-11 | 130 | - |
| 107475 | 2011 | Miranna | 539129 | 6311717 | 0.3 | soil | 3 | med br | silt | well | abnt | - | - | abdt | 30-Aug-11 | 160 | - |
| 107476 | 2011 | Miranna | 539087 | 6311687 | 0.3 | soil | 2 | med br | silty sand | moderate | abnt | ang | pebble | abdt | 30-Aug-11 | 180 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|-------------|----------|-----------------------|--------------------|-----------|----------|-----------|------|---------------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107477 | 2011 | Miranna | 539040 | 6311662 | 0.25 | soil | 3 | lt y-br | clay | moderate | abnt | ang | pebble | trace | 30-Aug-11 | 140 | - |
| 107478 | 2011 | Miranna | 538996 | 6311641 | 0.2 | soil | 2 | med br | v.f.g. sand | poor | abnt | ang | pebble | abdt | 30-Aug-11 | 400 | - |
| 107479 | 2011 | Miranna | 538954 | 6311615 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | pebble | mod | 30-Aug-11 | 200 | - |
| 107480 | 2011 | Miranna | 538914 | 6311591 | 0.2 | soil | 4 | dk br | silt | well | abnt | - | - | abdt | 30-Aug-11 | 280 | - |
| 107481 | 2011 | Miranna | 538869 | 6311563 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | rnd | pebble | abdt | 30-Aug-11 | 150 | - |
| 107482 | 2011 | Miranna | 538823 | 6311537 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 260 | - |
| 107483 | 2011 | Miranna | 538781 | 6311515 | 0.35 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 275 | - |
| 107484 | 2011 | Miranna | 538740 | 6311490 | 0.15 | soil | 3 | gy-br | sandy clay | moderate | abnt | sub-ang | - | trace | 31-Aug-11 | 280 | - |
| 107485 | 2011 | Miranna | 538694 | 6311464 | 0.2 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 240 | - |
| 107486 | 2011 | Miranna | 538650 | 6311438 | 0.3 | soil | 2 | og-br | sandy silt | poor | abnt | ang to sub-ang | up to 3 | trace | 31-Aug-11 | 215 | - |
| 107487 | 2011 | Miranna | 538607 | 6311411 | 0.35 | soil | 4 | dk br | sandy silt | moderate | abnt | sub-rnd | 2-4 | abdt | 31-Aug-11 | 275 | - |
| 107488 | 2011 | Miranna | 538564 | 6311388 | 0.35 | soil | 4 | dk br | sandy silt | poor | abnt | sub-ang | up to 1 | mod | 31-Aug-11 | 250 | - |
| 107489 | 2011 | Miranna | 538520 | 6311362 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 330 | - |
| 107490 | 2011 | Miranna | 538477 | 6311337 | 0.15 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 31-Aug-11 | 420 | - |
| 107491 | 2011 | Miranna | 538434 | 6311310 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | ang | up to 1 | trace | 31-Aug-11 | 170 | - |
| 107492 | 2011 | Miranna | 538391 | 6311287 | 0.2 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 10 | mod | 31-Aug-11 | 250 | - |
| 107493 | 2011 | Miranna | 538348 | 6311261 | 0.1 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 250 | - |
| 107494 | 2011 | Miranna | 538305 | 6311237 | 0.1 | soil | 3 | og-br | silty sand | - | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 380 | - |
| 107495 | 2011 | Miranna | 538262 | 6311211 | 0.15 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 850 | - |
| 107496 | 2011 | Miranna | 538219 | 6311186 | 0.4 | soil | 4 | dk br-blk | sandy silt | moderate | abnt | sub-ang | up to 1 | abdt | 31-Aug-11 | 450 | - |
| 107497 | 2011 | Miranna | 538175 | 6311161 | 0.15 | soil | 3 | med br | silty sand | poor | abnt | sub-rnd to sub-ang | up to 2 | trace | 31-Aug-11 | 675 | - |
| 107498 | 2011 | Miranna | 538132 | 6311135 | 0.35 | soil | 3 | r-br | sandy silt | moderate | abnt | sub-ang | 5-10 | abdt | 31-Aug-11 | 450 | - |
| 107499 | 2011 | Miranna | 538089 | 6311111 | 0.2 | soil | 3 | med br | silty sand | poor | abnt | ang to sub-ang | up to 1 | trace | 31-Aug-11 | 325 | - |
| 107500 | 2011 | Miranna | 538046 | 6311087 | 0.15 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 400 | - |
| 107501 | 2011 | Miranna | 538002 | 6311061 | 0.25 | soil | 3 | og-br | sandy silt | well | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 225 | - |
| 107502 | 2011 | Miranna | 537965 | 6311040 | 0.15 | soil | 1 | og-br | silty sand | poor | abnt | sub-ang to ang | up to 1 | trace | 31-Aug-11 | 2500 | 10,000 cps 1m to the SW |
| 107503 | 2011 | Miranna | 537872 | 6310985 | 0.25 | soil | 3 | med br | silty sand | poor | abnt | sub-ang to ang | up to 2 | trace | 31-Aug-11 | 135 | - |
| 107504 | 2011 | Miranna | 537830 | 6310960 | 0.1 | soil | 3 | dk gy-br | sandy silt | well | abnt | - | - | mod | 31-Aug-11 | 115 | Sample taken from fallen tree's roots |
| 107505 | 2011 | Miranna | 537785 | 6310935 | 0.25 | soil | 2 | lt br | silty sand | moderate | abnt | ang | 5 | trace | 31-Aug-11 | 370 | - |
| 107506 | 2011 | Miranna | 537743 | 6310909 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 155 | - |
| 107507 | 2011 | Miranna | 537699 | 6310884 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 120 | - |
| 107508 | 2011 | Miranna | 537657 | 6310858 | 0.2 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 31-Aug-11 | 140 | - |
| 107509 | 2011 | Miranna | 537614 | 6310833 | - | soil | 1 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 135 | Sample taken from fallen tree's roots |
| 107510 | 2011 | Miranna | 537570 | 6310807 | 0.25 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 190 | - |
| 107511 | 2011 | Miranna | 537525 | 6310786 | 0.3 | soil | 4 | dk br-blk | sandy silt | well | abnt | - | - | abdt | 31-Aug-11 | 100 | - |
| 107512 | 2011 | Miranna | 537484 | 6310758 | - | soil | 3 | dk gy-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 31-Aug-11 | 100 | - |
| 107513 | 2011 | Miranna | 537440 | 6310733 | - | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 31-Aug-11 | 115 | Sample taken from fallen tree's roots |
| 107514 | 2011 | Miranna | 537397 | 6310708 | - | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 4 | trace | 31-Aug-11 | 205 | - |
| 107515 | 2011 | Miranna | 537412 | 6310486 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | ang to sub-rnd | up to 1 | trace | 31-Aug-11 | 100 | - |
| 107516 | 2011 | Miranna | 537454 | 6310509 | - | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 4 | trace | 31-Aug-11 | 100 | - |
| 107517 | 2011 | Miranna | 537499 | 6310534 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 7 | abdt | 31-Aug-11 | 75 | - |
| 107518 | 2011 | Miranna | 537543 | 6310562 | 0.2 | soil | 3 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 31-Aug-11 | 125 | - |
| 107519 | 2011 | Miranna | 537585 | 6310587 | 0.2 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 150 | - |
| 107520 | 2011 | Miranna | 537627 | 6310612 | 0.25 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 31-Aug-11 | 140 | - |
| 107521 | 2011 | Miranna | 537671 | 6310636 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to sub-rnd | up to 4 | trace | 31-Aug-11 | 110 | - |
| 107522 | 2011 | Miranna | 537714 | 6310662 | 0.2 | soil | 3 | dk br | sandy silt | poor | abnt | sub-ang | up to 1 | mod | 31-Aug-11 | 110 | - |
| 107523 | 2011 | Miranna | 537759 | 6310687 | 0.35 | soil | 3 | dk br | sandy silt | well | abnt | - | - | mod | 31-Aug-11 | 100 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|-------------|----------|-----------------------|-------------------|-----------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107524 | 2011 | Miranna | 537802 | 6310711 | 0.25 | soil | 3 | med br | sandy clay | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 100 | - |
| 107525 | 2011 | Miranna | 537845 | 6310739 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 700 | - |
| 107526 | 2011 | Miranna | 537887 | 6310761 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 4 | trace | 31-Aug-11 | 170 | - |
| 107527 | 2011 | Miranna | 537930 | 6310788 | 0.35 | soil | 4 | dk br-blk | sandy silt | well | abnt | - | - | abdt | 31-Aug-11 | 130 | - |
| 107528 | 2011 | Miranna | 537974 | 6310812 | 0.3 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | 1 | mod | 31-Aug-11 | 150 | - |
| 107529 | 2011 | Miranna | 538016 | 6310838 | - | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 31-Aug-11 | 115 | - |
| 107530 | 2011 | Miranna | 538059 | 6310863 | 0.15 | soil | 3 | gy-br | clayey sand | poor | abnt | sub-ang | up to 3 | trace | 31-Aug-11 | 265 | - |
| 107531 | 2011 | West Rim | 536144 | 6312062 | 0.15 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 3 | none | 5-Sep-11 | 1100 | - |
| 107532 | 2011 | West Rim | 536101 | 6312036 | 0.4 | soil | 4 | med br | clayey silt | moderate | abnt | sub-ang | 1 | mod | 5-Sep-11 | 350 | - |
| 107533 | 2011 | West Rim | 536058 | 6312011 | 0.3 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | mod | 5-Sep-11 | 300 | - |
| 107534 | 2011 | West Rim | 536014 | 6311988 | 0.2 | soil | 2 | lt br | silt | well | abnt | - | - | trace | 5-Sep-11 | 230 | - |
| 107535 | 2011 | West Rim | 535971 | 6311961 | 0.45 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 5-Sep-11 | 180 | - |
| 107536 | 2011 | West Rim | 535928 | 6311937 | 0.4 | soil | 2 | lt br | clayey silt | moderate | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 160 | - |
| 107537 | 2011 | West Rim | 535885 | 6311912 | 0.45 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 5-Sep-11 | 160 | - |
| 107538 | 2011 | West Rim | 535842 | 6311887 | 0.25 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 5-Sep-11 | 190 | - |
| 107539 | 2011 | West Rim | 535799 | 6311862 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 2 | trace | 5-Sep-11 | 300 | - |
| 107540 | 2011 | West Rim | 535756 | 6311838 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 5-Sep-11 | 220 | - |
| 107541 | 2011 | West Rim | 535712 | 6311812 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Sep-11 | 170 | - |
| 107542 | 2011 | West Rim | 535669 | 6311786 | 0.4 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 5-Sep-11 | 140 | - |
| 107543 | 2011 | West Rim | 535626 | 6311761 | 0.4 | soil | 2 | lt br | clayey silt | well | abnt | - | - | trace | 5-Sep-11 | 200 | - |
| 107544 | 2011 | West Rim | 535582 | 6311735 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 180 | - |
| 107545 | 2011 | West Rim | 535538 | 6311711 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 5-Sep-11 | 220 | - |
| 107546 | 2011 | West Rim | 535496 | 6311686 | 0.2 | soil | 5 | lt br | clayey silt | moderate | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 150 | - |
| 107547 | 2011 | West Rim | 535453 | 6311662 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 5-Sep-11 | 200 | - |
| 107548 | 2011 | West Rim | 535410 | 6311636 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang to oblate | up to 2 | trace | 5-Sep-11 | 135 | - |
| 107549 | 2011 | West Rim | 535366 | 6311610 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 220 | - |
| 107550 | 2011 | West Rim | 535322 | 6311586 | 0.4 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 5-Sep-11 | 180 | - |
| 107551 | 2011 | West Rim | 535279 | 6311560 | 0.3 | soil | 3 | og-br | sandy silt | well | abnt | - | - | trace | 5-Sep-11 | 330 | - |
| 107552 | 2011 | West Rim | 535236 | 6311535 | 0.2 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang to oblate | up to 1 | trace | 5-Sep-11 | 250 | - |
| 107553 | 2011 | West Rim | 535194 | 6311511 | 0.45 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang | up to 2 | abdt | 5-Sep-11 | 80 | - |
| 107554 | 2011 | West Rim | 535092 | 6311682 | 0.4 | soil | 2 | lt br | silt | moderate | abnt | sub-ang | 1 | mod | 5-Sep-11 | 75 | - |
| 107555 | 2011 | West Rim | 535136 | 6311709 | 0.2 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 5-Sep-11 | 140 | - |
| 107556 | 2011 | West Rim | 535179 | 6311734 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Sep-11 | 190 | - |
| 107557 | 2011 | West Rim | 535221 | 6311759 | 0.45 | soil | 4 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 5-Sep-11 | 300 | - |
| 107558 | 2011 | West Rim | 535265 | 6311784 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Sep-11 | 430 | - |
| 107559 | 2011 | West Rim | 535352 | 6311835 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 5-Sep-11 | 140 | - |
| 107560 | 2011 | West Rim | 535396 | 6311860 | 0.3 | soil | 3 | lt br | sandy silt | poor | abnt | sub-ang | up to 8 | mod | 5-Sep-11 | 225 | - |
| 107561 | 2011 | West Rim | 535438 | 6311883 | 0.4 | soil | 3 | lt br | silt | poor | abnt | sub-ang | up to 3 | mod | 5-Sep-11 | 150 | - |
| 107562 | 2011 | West Rim | 535568 | 6311960 | 0.4 | soil | 3 | og-br | clayey silt | poor | abnt | sub-ang | up to 3 | mod | 5-Sep-11 | 225 | - |
| 107563 | 2011 | West Rim | 535613 | 6311985 | 0.4 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | up to 5 | mod | 5-Sep-11 | 230 | - |
| 107564 | 2011 | West Rim | 535654 | 6312008 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 5-Sep-11 | 150 | - |
| 107565 | 2011 | West Rim | 535699 | 6312035 | 0.45 | soil | 2 | lt br | sandy silt | well | abnt | - | - | mod | 5-Sep-11 | 275 | - |
| 107566 | 2011 | West Rim | 535743 | 6312061 | 0.4 | soil | 2 | og-br | sandy silt | well | abnt | - | - | trace | 5-Sep-11 | 200 | - |
| 107567 | 2011 | West Rim | 535785 | 6312085 | 0.4 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 250 | - |
| 107568 | 2011 | West Rim | 535827 | 6312109 | 0.3 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 215 | - |
| 107569 | 2011 | West Rim | 535871 | 6312135 | 0.4 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 5-Sep-11 | 130 | - |
| 107570 | 2011 | West Rim | 535915 | 6312160 | 0.45 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang to oblate | 1 | trace | 5-Sep-11 | 270 | - |
| 107571 | 2011 | West Rim | 535957 | 6312184 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 5-Sep-11 | 260 | - |
| 107572 | 2011 | West Rim | 536001 | 6312210 | 0.2 | soil | 1 | r-br | silty sand | well | abnt | - | - | mod | 5-Sep-11 | 380 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|-------------|----------|-----------------------|-------------------|-----------|----------|----------|------|------------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107573 | 2011 | West Rim | 536043 | 6312234 | 0.3 | soil | 2 | med br | sandy silt | well | abnt | sub-ang | 2 | trace | 5-Sep-11 | 425 | - |
| 107574 | 2011 | West Rim | 536088 | 6312260 | 0.4 | soil | 3 | gy-br | clay | well | abnt | - | - | trace | 5-Sep-11 | 650 | - |
| 107575 | 2011 | West Rim | 536147 | 6312291 | 0.3 | soil | 4 | med br | clayey silt | well | abnt | - | - | mod | 5-Sep-11 | 2200 | Sample location moved due to swamp |
| 107576 | 2011 | West Rim | 536103 | 6312731 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 7-Sep-11 | 280 | - |
| 107577 | 2011 | West Rim | 536061 | 6312708 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 7-Sep-11 | 675 | - |
| 107578 | 2011 | West Rim | 536017 | 6312682 | 0.4 | soil | 3 | dk br | sandy silt | moderate | abnt | sub-ang | up to 1 | mod | 7-Sep-11 | 355 | - |
| 107579 | 2011 | West Rim | 535975 | 6312657 | 0.45 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang to ang | up to 8 | mod | 7-Sep-11 | 550 | - |
| 107580 | 2011 | West Rim | 535931 | 6312631 | 0.35 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 7-Sep-11 | 450 | - |
| 107581 | 2011 | West Rim | 535887 | 6312607 | 0.25 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 7-Sep-11 | 700 | - |
| 107582 | 2011 | West Rim | 535843 | 6312582 | 0.3 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 10 | trace | 7-Sep-11 | 325 | - |
| 107583 | 2011 | West Rim | 535800 | 6312555 | 0.4 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | 1 | trace | 7-Sep-11 | 250 | - |
| 107584 | 2011 | West Rim | 535757 | 6312532 | 0.45 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | 1-2 | trace | 7-Sep-11 | 235 | - |
| 107585 | 2011 | West Rim | 535714 | 6312506 | 0.35 | soil | 2 | med br | silt | well | abnt | - | - | mod | 7-Sep-11 | 250 | - |
| 107586 | 2011 | West Rim | 535671 | 6312481 | 0.55 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | mod | 7-Sep-11 | 290 | - |
| 107587 | 2011 | West Rim | 535627 | 6312455 | 0.5 | soil | 2 | og-br | silty sand | well | abnt | - | - | trace | 7-Sep-11 | 420 | - |
| 107588 | 2011 | West Rim | 535584 | 6312431 | 0.3 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 7-Sep-11 | 300 | - |
| 107589 | 2011 | West Rim | 535542 | 6312406 | 0.55 | soil | 3 | dk br | silt | well | abnt | - | - | mod | 7-Sep-11 | 150 | - |
| 107590 | 2011 | West Rim | 535498 | 6312382 | 0.3 | soil | 4 | dk br | silt | well | abnt | - | - | abdt | 7-Sep-11 | 215 | - |
| 107591 | 2011 | West Rim | 535483 | 6312603 | 0.25 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 15 | mod | 7-Sep-11 | 360 | - |
| 107592 | 2011 | West Rim | 535526 | 6312629 | 0.45 | soil | 3 | lt br | sandy silt | poor | abnt | ang to sub-ang | up to 8 | abdt | 7-Sep-11 | 315 | - |
| 107593 | 2011 | West Rim | 535571 | 6312654 | 0.5 | soil | 5 | lt br | silt | moderate | abnt | - | up to 5 | mod | 7-Sep-11 | 215 | - |
| 107594 | 2011 | West Rim | 535614 | 6312679 | - | soil | 4 | dk br | silt | well | abnt | - | - | mod | 7-Sep-11 | 525 | - |
| 107595 | 2011 | West Rim | 535657 | 6312704 | 0.45 | soil | 2 | r | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 7-Sep-11 | 900 | - |
| 107596 | 2011 | West Rim | 535701 | 6312727 | 0.65 | soil | 3 | med br | silt | moderate | abnt | ang to oblate | 4 | abdt | 7-Sep-11 | 230 | - |
| 107597 | 2011 | West Rim | 535743 | 6312754 | 0.45 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 7-Sep-11 | 290 | - |
| 107598 | 2011 | West Rim | 535787 | 6312778 | 0.55 | soil | 2 | gy-br | silty sand | moderate | abnt | sub-ang to oblate | up to 2 | trace | 7-Sep-11 | 200 | - |
| 107599 | 2011 | West Rim | 535830 | 6312804 | 0.2 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 7-Sep-11 | 330 | - |
| 107600 | 2011 | West Rim | 535874 | 6312829 | 0.3 | soil | 2 | lt br | sandy silt | well | abnt | - | - | none | 7-Sep-11 | 650 | - |
| 107626 | 2011 | West Rim | 535916 | 6312855 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 7-Sep-11 | 600 | - |
| 107627 | 2011 | West Rim | 535959 | 6312880 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 7-Sep-11 | 560 | - |
| 107628 | 2011 | West Rim | 536005 | 6312905 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 7-Sep-11 | 205 | - |
| 107629 | 2011 | West Rim | 536047 | 6312929 | 0.2 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 7-Sep-11 | 190 | - |
| 107630 | 2011 | West Rim | 536090 | 6312954 | 0.3 | soil | 4 | dk br | sandy silt | well | abnt | - | - | abdt | 7-Sep-11 | 200 | - |
| 107631 | 2011 | West Rim | 535137 | 6312403 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | mod | 8-Sep-11 | 575 | - |
| 107632 | 2011 | West Rim | 535009 | 6312328 | 0.45 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 1 | mod | 8-Sep-11 | 250 | - |
| 107633 | 2011 | West Rim | 534921 | 6312277 | 0.2 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 8-Sep-11 | 150 | - |
| 107634 | 2011 | West Rim | 534878 | 6312252 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 8-Sep-11 | 100 | - |
| 107635 | 2011 | West Rim | 534835 | 6312228 | 0.2 | soil | 3 | lt br | sandy silt | well | abnt | sub-ang | 1 | trace | 8-Sep-11 | 100 | - |
| 107636 | 2011 | West Rim | 534736 | 6312401 | 0.35 | soil | 2 | lt br | sandy silt | well | abnt | sub-ang | up to 1 | trace | 8-Sep-11 | 95 | - |
| 107637 | 2011 | West Rim | 534778 | 6312425 | 0.3 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang to oblate | up to 1 | trace | 8-Sep-11 | 89 | - |
| 107638 | 2011 | West Rim | 534821 | 6312452 | 0.4 | soil | 4 | lt br | c.g. sand | poor | abnt | sub-ang | up to 1 | trace | 8-Sep-11 | 100 | - |
| 107639 | 2011 | West Rim | 534863 | 6312476 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 8-Sep-11 | 180 | - |
| 107640 | 2011 | West Rim | 534908 | 6312502 | 0.5 | soil | 5 | dk br | silt | poor | abnt | sub-ang | up to 3 | mod | 8-Sep-11 | 165 | - |
| 107641 | 2011 | West Rim | 534951 | 6312525 | 0.35 | soil | 3 | blk | silt | moderate | abnt | sub-ang | up to 1 | mod | 8-Sep-11 | 200 | - |
| 107642 | 2011 | West Rim | 534996 | 6312551 | 0.25 | soil | 2 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 8-Sep-11 | 460 | - |
| 107643 | 2011 | West Rim | 535037 | 6312575 | 0.15 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | none | 8-Sep-11 | 350 | - |
| 107644 | 2011 | West Rim | 535082 | 6312601 | 0.2 | soil | 3 | med br | sandy silt | well | abnt | - | - | mod | 8-Sep-11 | 495 | - |
| 107645 | 2011 | West Rim | 535125 | 6312626 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | mod | 8-Sep-11 | 640 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------|------------|----------|-----------------------|----------------|-----------|----------|----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107646 | 2011 | West Rim | 535168 | 6312651 | 0.55 | soil | 4 | lt br | silty clay | moderate | abnt | sub-ang | up to 1 | trace | 8-Sep-11 | 350 | - |
| 107647 | 2011 | West Rim | 535254 | 6312701 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | ang | 1 | trace | 8-Sep-11 | 380 | - |
| 107648 | 2011 | West Rim | 535296 | 6312726 | 0.2 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | 1 | mod | 8-Sep-11 | 500 | - |
| 107649 | 2011 | West Rim | 535427 | 6312801 | 0.2 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 8-Sep-11 | 257 | - |
| 107650 | 2011 | West Rim | 535470 | 6312826 | 0.3 | soil | 3 | lt br | silt | poor | abnt | sub-ang | up to 2 | trace | 8-Sep-11 | 200 | - |
| 107651 | 2011 | West Rim | 536158 | 6312533 | 0.3 | soil | 2 | lt gy-br | sandy silt | poor | abnt | rnd to ang | pebble | abdt | 7-Sep-11 | 320 | - |
| 107652 | 2011 | West Rim | 536118 | 6312508 | 0.4 | soil | 3 | dk gy-br | sandy silt | poor | abnt | ang to rnd | pebble | mod | 7-Sep-11 | 360 | - |
| 107653 | 2011 | West Rim | 536071 | 6312483 | 0.4 | soil | 3 | lt br | c.g. sand | moderate | abnt | rnd | pebble | mod | 7-Sep-11 | 340 | - |
| 107654 | 2011 | West Rim | 536031 | 6312457 | 0.4 | soil | 4 | dk gy-br | silt | well | abnt | ang | pebble | abdt | 7-Sep-11 | 600 | - |
| 107655 | 2011 | West Rim | 535987 | 6312434 | 0.4 | soil | 4 | dk gy-br | silt | poor | abnt | rnd to ang | pebble | abdt | 7-Sep-11 | 280 | - |
| 107656 | 2011 | West Rim | 535944 | 6312408 | 0.4 | soil | 2 | lt gy-br | sandy silt | moderate | abnt | ang | pebble | mod | 7-Sep-11 | 190 | - |
| 107657 | 2011 | West Rim | 535900 | 6312382 | 0.45 | soil | 3 | dk gy-br | silt | moderate | abnt | sub-ang | pebble | abdt | 7-Sep-11 | 165 | - |
| 107658 | 2011 | West Rim | 535856 | 6312359 | 0.45 | soil | 2 | med br | silt | well | abnt | - | - | abdt | 7-Sep-11 | 150 | - |
| 107659 | 2011 | West Rim | 535816 | 6312334 | 0.45 | soil | 3 | med br | silty sand | moderate | abnt | ang | pebble | abdt | 7-Sep-11 | 220 | - |
| 107660 | 2011 | West Rim | 535768 | 6312306 | 0.4 | soil | 3 | med br | silt | poor | abnt | sub-rnd | pebble | abdt | 7-Sep-11 | 300 | - |
| 107661 | 2011 | West Rim | 535729 | 6312284 | 0.3 | soil | 2 | med br | sandy silt | moderate | abnt | sub-ang | pebble | abdt | 7-Sep-11 | 300 | - |
| 107662 | 2011 | West Rim | 535690 | 6312260 | 0.45 | soil | 3 | dk gy-br | silt | moderate | abnt | sub-rnd | pebble | abdt | 7-Sep-11 | 180 | - |
| 107663 | 2011 | West Rim | 535643 | 6312234 | 0.5 | soil | 3 | lt gy-br | silt | moderate | abnt | ang | pebble | abdt | 7-Sep-11 | 200 | - |
| 107664 | 2011 | West Rim | 535597 | 6312207 | 0.4 | soil | 2 | og-br | silty sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 250 | - |
| 107665 | 2011 | West Rim | 535556 | 6312183 | 0.35 | soil | 2 | med br | silty sand | poor | abnt | rnd to ang | pebble | abdt | 7-Sep-11 | 220 | - |
| 107666 | 2011 | West Rim | 535511 | 6312157 | 0.3 | soil | 2 | og-br | f.g. sand | poor | abnt | ang to sub-rnd | pebble | mod | 7-Sep-11 | 150 | - |
| 107667 | 2011 | West Rim | 535470 | 6312133 | 0.45 | soil | 3 | dk br | silty sand | poor | abnt | ang to sub-rnd | pebble | abdt | 7-Sep-11 | 380 | - |
| 107668 | 2011 | West Rim | 535427 | 6312107 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 240 | - |
| 107669 | 2011 | West Rim | 535384 | 6312086 | 0.4 | soil | 3 | med gy-br | silty sand | poor | abnt | ang to sub-rnd | pebble | abdt | 7-Sep-11 | 270 | - |
| 107670 | 2011 | West Rim | 535337 | 6312057 | 0.3 | soil | 3 | med br | f.g. sand | poor | abnt | sub-rnd | pebble | mod | 7-Sep-11 | 190 | - |
| 107671 | 2011 | West Rim | 535300 | 6312030 | 0.35 | soil | 3 | med br | f.g. sand | poor | abnt | ang to sub-ang | pebble | mod | 7-Sep-11 | 240 | - |
| 107672 | 2011 | West Rim | 535250 | 6312006 | - | soil | 2 | med br | sandy silt | moderate | abnt | ang to sub-ang | pebble | abdt | 7-Sep-11 | 220 | - |
| 107673 | 2011 | West Rim | 535210 | 6311981 | 0.3 | soil | 2 | og-br | f.g. sand | moderate | abnt | ang to sub-rnd | pebble | mod | 7-Sep-11 | 330 | - |
| 107674 | 2011 | West Rim | 535120 | 6311931 | 0.35 | soil | 3 | med gy-br | silt | poor | abnt | rnd to sub-rnd | pebble | abdt | 7-Sep-11 | 160 | - |
| 107675 | 2011 | West Rim | 535079 | 6311907 | 0.4 | soil | 3 | med br | - | moderate | abnt | rnd to sub-ang | pebble | abdt | 7-Sep-11 | 250 | - |
| 107676 | 2011 | West Rim | 535036 | 6311883 | 0.3 | soil | 3 | med br | silt | well | abnt | - | - | mod | 7-Sep-11 | 135 | - |
| 107677 | 2011 | West Rim | 534994 | 6311858 | 0.25 | soil | 3 | med og-br | silt | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 85 | - |
| 107678 | 2011 | West Rim | 534898 | 6312029 | 0.35 | soil | 3 | med gy-br | silt | moderate | abnt | ang | pebble | mod | 7-Sep-11 | 60 | - |
| 107679 | 2011 | West Rim | 534933 | 6312054 | 0.25 | soil | 3 | med br | silt | moderate | abnt | ang | pebble | abdt | 7-Sep-11 | 70 | - |
| 107680 | 2011 | West Rim | 534977 | 6312080 | 0.25 | soil | 3 | dk br | silt | moderate | abnt | ang to oblate | pebble | abdt | 7-Sep-11 | 150 | - |
| 107681 | 2011 | West Rim | 535022 | 6312104 | 0.3 | soil | 4 | dk br | f.g. sand | moderate | abnt | rnd | pebble | mod | 7-Sep-11 | 110 | - |
| 107682 | 2011 | West Rim | 535064 | 6312131 | 0.15 | soil | 2 | dk br | f.g. sand | moderate | abnt | rnd | pebble | mod | 7-Sep-11 | 270 | - |
| 107683 | 2011 | West Rim | 535108 | 6312153 | 0.2 | soil | 2 | og-br | f.g. sand | poor | abnt | ang to rnd | pebble | abdt | 7-Sep-11 | 320 | - |
| 107684 | 2011 | West Rim | 535151 | 6312180 | 0.2 | soil | 2 | r-br | f.g. sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 400 | - |
| 107685 | 2011 | West Rim | 535195 | 6312206 | 0.25 | soil | 2 | dk br | sandy silt | moderate | abnt | ang | pebble | abdt | 7-Sep-11 | 250 | - |
| 107686 | 2011 | West Rim | 535280 | 6312257 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | ang to oblate | pebble | abdt | 7-Sep-11 | 280 | - |
| 107687 | 2011 | West Rim | 535322 | 6312283 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 300 | - |
| 107688 | 2011 | West Rim | 535369 | 6312304 | 0.25 | soil | 3 | dk br | sandy silt | moderate | abnt | ang | pebble | mod | 7-Sep-11 | 250 | - |
| 107689 | 2011 | West Rim | 535411 | 6312329 | 0.3 | soil | 2 | lt og-br | silty sand | poor | abnt | ang to sub-ang | pebble | mod | 7-Sep-11 | 320 | - |
| 107690 | 2011 | West Rim | 535267 | 6312483 | 0.25 | soil | 3 | med og-br | sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 400 | - |
| 107691 | 2011 | West Rim | 535098 | 6312381 | 0.2 | soil | 2 | r-br | sand | well | abnt | - | - | abdt | 7-Sep-11 | 340 | - |
| 107692 | 2011 | West Rim | 535056 | 6312357 | 0.25 | soil | 2 | og-br | sand | moderate | abnt | sub-rnd | pebble | abdt | 7-Sep-11 | 300 | - |
| 107693 | 2011 | West Rim | 534967 | 6312304 | 0.2 | soil | 2 | med br | sand | poor | abnt | ang | pebble | abdt | 7-Sep-11 | 170 | - |
| 107694 | 2011 | West Rim | 535515 | 6312854 | 0.2 | soil | 5 | lt br | silt | poor | abnt | sub-ang | up to 5 | abdt | 8-Sep-11 | 215 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|-------------|----------|-----------------------|-------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107695 | 2011 | West Rim | 535557 | 6312877 | 0.35 | soil | 3 | lt br | sandy silt | well | abnt | - | - | abdt | 8-Sep-11 | 165 | - |
| 107696 | 2011 | West Rim | 535601 | 6312904 | 0.5 | soil | 3 | lt br | clayey silt | well | abnt | - | - | mod | 8-Sep-11 | 260 | - |
| 107697 | 2011 | West Rim | 535644 | 6312928 | 0.5 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 8-Sep-11 | 310 | - |
| 107698 | 2011 | West Rim | 535686 | 6312951 | 0.4 | soil | 2 | lt br | sandy silt | - | abnt | sub-ang | 1 | trace | 8-Sep-11 | 285 | - |
| 107699 | 2011 | West Rim | 535729 | 6312978 | 0.4 | soil | 2 | med br | sandy silt | - | abnt | sub-ang | up to 3 | trace | 8-Sep-11 | 298 | - |
| 107700 | 2011 | West Rim | 535773 | 6313002 | 0.6 | soil | 3 | med br | clayey silt | moderate | abnt | sub-ang | up to 2 | mod | 8-Sep-11 | 340 | - |
| 107801 | 2011 | West Rim | 535817 | 6313027 | 0.25 | soil | 3 | gy-br | clayey silt | moderate | abnt | sub-rnd | up to 1 | trace | 8-Sep-11 | 510 | - |
| 107802 | 2011 | West Rim | 535858 | 6313052 | 0.3 | soil | 2 | lt br | clayey silt | - | abnt | sub-ang | up to 3 | trace | 8-Sep-11 | 530 | - |
| 107803 | 2011 | West Rim | 535903 | 6313076 | 0.2 | soil | - | dk br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 8-Sep-11 | -1 | - |
| 107804 | 2011 | West Rim | 535946 | 6313101 | 0.3 | soil | 3 | med br | clayey silt | poor | abnt | rnd | up to 20 | trace | 8-Sep-11 | 355 | - |
| 107805 | 2011 | West Rim | 535990 | 6313128 | 0.3 | soil | 2 | lt br | sandy silt | poor | abnt | sub-ang | up to 3 | trace | 8-Sep-11 | 205 | - |
| 107806 | 2011 | West Rim | 536032 | 6313154 | 0.35 | soil | 2 | gy-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 8-Sep-11 | 161 | - |
| 107807 | 2011 | West Rim | 536078 | 6313178 | 0.25 | soil | 2 | med br | silty sand | poor | abnt | sub-ang | up to 6 | trace | 10-Sep-11 | 160 | - |
| 107808 | 2011 | West Rim | 536118 | 6313201 | 0.25 | soil | 3 | med br | sandy silt | poor | abnt | ang | up to 5 | mod | 10-Sep-11 | 195 | - |
| 107809 | 2011 | West Rim | 536163 | 6313228 | 0.35 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | up to 4 | mod | 10-Sep-11 | 352 | - |
| 107810 | 2011 | West Rim | 536206 | 6313251 | 0.25 | soil | 3 | gy-br | clayey silt | poor | abnt | sub-ang | up to 2 | trace | 10-Sep-11 | 280 | - |
| 107811 | 2011 | West Rim | 536252 | 6313278 | 0.2 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | up to 2 | trace | 10-Sep-11 | 217 | - |
| 107812 | 2011 | West Rim | 536293 | 6313302 | 0.45 | soil | 4 | dk br | clayey silt | well | abnt | - | - | abdt | 10-Sep-11 | 197 | - |
| 107813 | 2011 | West Rim | 536336 | 6313328 | 0.2 | soil | 2 | og-br | sandy silt | poor | abnt | sub-ang | up to 3 | mod | 10-Sep-11 | 186 | - |
| 107814 | 2011 | West Rim | 536379 | 6313351 | 0.3 | soil | 2 | lt br | sandy silt | moderate | abnt | sub-ang | up to 1 | mod | 10-Sep-11 | 150 | - |
| 107815 | 2011 | West Rim | 536420 | 6313378 | 0.4 | soil | 3 | dk br | clayey silt | poor | abnt | sub-ang to oblate | up to 1 | mod | 10-Sep-11 | 121 | - |
| 107816 | 2011 | West Rim | 536466 | 6313405 | 0.2 | soil | 5 | med br | clayey silt | moderate | abnt | sub-ang | up to 2 | mod | 10-Sep-11 | 110 | - |
| 107817 | 2011 | West Rim | 536508 | 6313429 | 0.25 | soil | 4 | lt br | clayey silt | moderate | abnt | sub-ang | up to 2 | trace | 10-Sep-11 | 117 | - |
| 107818 | 2011 | West Rim | 536552 | 6313453 | 0.2 | soil | 4 | med br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 10-Sep-11 | 155 | - |
| 107819 | 2011 | West Rim | 536450 | 6313632 | 0.25 | soil | 3 | med br | f.g. sand | poor | abnt | sub-ang | up to 10 | trace | 10-Sep-11 | 130 | - |
| 107820 | 2011 | West Rim | 536407 | 6313602 | 0.2 | soil | 5 | lt br | sandy silt | well | abnt | sub-ang | up to 1 | trace | 10-Sep-11 | 112 | - |
| 107821 | 2011 | West Rim | 536364 | 6313577 | 0.2 | soil | 5 | gy-br | clayey silt | well | abnt | - | - | trace | 10-Sep-11 | 105 | - |
| 107822 | 2011 | West Rim | 536322 | 6313553 | 0.25 | soil | 4 | dk br | clayey silt | well | abnt | - | - | abdt | 10-Sep-11 | 110 | - |
| 107823 | 2011 | West Rim | 536280 | 6313526 | 0.5 | soil | 4 | med br | clayey silt | well | abnt | - | - | mod | 10-Sep-11 | 130 | - |
| 107824 | 2011 | West Rim | 536233 | 6313500 | 0.2 | soil | 3 | med br | clayey silt | well | abnt | - | - | mod | 10-Sep-11 | 111 | - |
| 107825 | 2011 | West Rim | 536192 | 6313476 | 0.25 | soil | 4 | med br | clayey silt | well | abnt | - | - | mod | 10-Sep-11 | 302 | - |
| 107826 | 2011 | West Rim | 536105 | 6313427 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 10-Sep-11 | 177 | - |
| 107827 | 2011 | West Rim | 536062 | 6313401 | 0.2 | soil | 4 | lt gy-br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 10-Sep-11 | 180 | - |
| 107828 | 2011 | West Rim | 536019 | 6313377 | 0.2 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 10-Sep-11 | 167 | - |
| 107829 | 2011 | West Rim | 535976 | 6313351 | 0.25 | soil | 2 | gy-br | f.g. sand | poor | abnt | ang | up to 2 | trace | 10-Sep-11 | 132 | - |
| 107830 | 2011 | West Rim | 535801 | 6313250 | 0.25 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 1 | mod | 10-Sep-11 | 320 | - |
| 107831 | 2011 | West Rim | 535760 | 6313226 | 0.25 | soil | 3 | lt br | clayey silt | poor | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 402 | - |
| 107832 | 2011 | West Rim | 535714 | 6313202 | 0.2 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | up to 1 | trace | 10-Sep-11 | 244 | - |
| 107833 | 2011 | West Rim | 535673 | 6313177 | 0.35 | soil | 4 | med br | clay | moderate | abnt | ang | up to 10 | mod | 10-Sep-11 | 226 | - |
| 107834 | 2011 | West Rim | 535630 | 6313149 | 0.3 | soil | 3 | med br | clayey silt | moderate | abnt | sub-ang | up to 1 | mod | 10-Sep-11 | 269 | - |
| 107835 | 2011 | West Rim | 535587 | 6313126 | 0.25 | soil | 3 | med br | sandy silt | poor | abnt | sub-ang | up to 3 | trace | 12-Sep-11 | 470 | - |
| 107836 | 2011 | West Rim | 535543 | 6313101 | 0.4 | soil | 3 | med br | sandy silt | well | abnt | sub-ang | 1 | trace | 12-Sep-11 | 415 | - |
| 107837 | 2011 | West Rim | 535456 | 6313049 | 0.4 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 12-Sep-11 | 295 | - |
| 107838 | 2011 | West Rim | 535410 | 6313027 | 0.3 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 3 | trace | 12-Sep-11 | 215 | - |
| 107839 | 2011 | West Rim | 535373 | 6313002 | 0.45 | soil | 3 | med br | - | moderate | abnt | sub-ang | up to 2 | trace | 12-Sep-11 | 300 | - |
| 107840 | 2011 | West Rim | 535325 | 6312976 | 0.4 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Sep-11 | 260 | - |
| 107841 | 2011 | West Rim | 535288 | 6312950 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | ang to oblate | up to 8 | trace | 12-Sep-11 | 330 | - |
| 107842 | 2011 | West Rim | 535239 | 6312925 | 0.45 | soil | 5 | gy-br | silt | poor | abnt | sub-ang | up to 20 | abdt | 12-Sep-11 | 320 | - |
| 107843 | 2011 | West Rim | 535113 | 6312852 | 0.35 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang | 1 | abdt | 12-Sep-11 | 530 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------|-------------|----------|-----------------------|-------------------|-----------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107844 | 2011 | West Rim | 535069 | 6312824 | 0.35 | soil | 3 | og-br | silty sand | - | abnt | sub-ang | up to 5 | mod | 12-Sep-11 | 1365 | - |
| 107845 | 2011 | West Rim | 534943 | 6312754 | 0.25 | soil | - | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 12-Sep-11 | 680 | - |
| 107846 | 2011 | West Rim | 534896 | 6312721 | 0.35 | soil | 4 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 3 | trace | 12-Sep-11 | 200 | - |
| 107847 | 2011 | West Rim | 534849 | 6312699 | 0.35 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 12-Sep-11 | 215 | - |
| 107848 | 2011 | West Rim | 534812 | 6312678 | 0.3 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | up to 5 | trace | 12-Sep-11 | 250 | - |
| 107849 | 2011 | West Rim | 534766 | 6312653 | 0.5 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 12-Sep-11 | 110 | - |
| 107850 | 2011 | West Rim | 534724 | 6312629 | 0.4 | soil | 4 | lt br | - | well | abnt | - | - | trace | 12-Sep-11 | 70 | - |
| 107851 | 2011 | West Rim | 536265 | 6313750 | 0.3 | soil | 3 | gy-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 140 | - |
| 107852 | 2011 | West Rim | 536222 | 6313725 | 0.35 | soil | 2 | gy-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 10-Sep-11 | 120 | - |
| 107853 | 2011 | West Rim | 536179 | 6313700 | 0.35 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 190 | - |
| 107854 | 2011 | West Rim | 536135 | 6313675 | 0.5 | soil | 5 | med br | sandy silt | poor | abnt | sub-ang to ang | up to 5 | trace | 10-Sep-11 | 170 | - |
| 107855 | 2011 | West Rim | 536092 | 6313650 | 0.35 | soil | 2 | og-br | silty sand | well | abnt | sub-ang | 1 | trace | 10-Sep-11 | 320 | - |
| 107856 | 2011 | West Rim | 536049 | 6313624 | 0.45 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 205 | - |
| 107857 | 2011 | West Rim | 536005 | 6313599 | 0.3 | soil | 2 | og-br | silty sand | - | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 190 | - |
| 107858 | 2011 | West Rim | 535962 | 6313575 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 240 | - |
| 107859 | 2011 | West Rim | 535918 | 6313548 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 10-Sep-11 | 225 | - |
| 107860 | 2011 | West Rim | 535875 | 6313523 | 0.25 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1-2 | trace | 10-Sep-11 | 340 | - |
| 107861 | 2011 | West Rim | 535832 | 6313499 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 10-Sep-11 | 400 | - |
| 107862 | 2011 | West Rim | 535789 | 6313474 | 0.45 | soil | 2 | lt br | sandy silt | well | abnt | - | - | trace | 10-Sep-11 | 445 | - |
| 107863 | 2011 | West Rim | 535746 | 6313448 | 0.35 | soil | 2 | gy-br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 10-Sep-11 | 300 | - |
| 107864 | 2011 | West Rim | 535703 | 6313423 | 0.4 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | 2 | trace | 10-Sep-11 | 640 | - |
| 107865 | 2011 | West Rim | 535660 | 6313399 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 10-Sep-11 | 300 | - |
| 107866 | 2011 | West Rim | 535613 | 6313374 | 0.4 | soil | 4 | r-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 10-Sep-11 | 360 | - |
| 107867 | 2011 | West Rim | 535572 | 6313350 | 0.3 | soil | 2 | og-br | silty sand | well | abnt | sub-ang | 3 | trace | 10-Sep-11 | 375 | - |
| 107868 | 2011 | West Rim | 535529 | 6313322 | 0.35 | soil | 2 | r-br | silty sand | moderate | abnt | ang | 1-2 | trace | 10-Sep-11 | 290 | - |
| 107869 | 2011 | West Rim | 535485 | 6313299 | 0.35 | soil | 5 | gy-br | silty clay | poor | abnt | sub-ang | up to 2 | trace | 10-Sep-11 | 240 | - |
| 107870 | 2011 | West Rim | 535400 | 6313242 | 0.5 | soil | 4 | og-br | sandy silt | moderate | abnt | sub-ang | 3-5 | mod | 10-Sep-11 | 360 | - |
| 107871 | 2011 | West Rim | 535314 | 6313198 | 0.4 | soil | 4 | lt br | clayey silt | moderate | abnt | sub-ang | 2 | trace | 10-Sep-11 | 280 | - |
| 107872 | 2011 | West Rim | 535271 | 6313174 | 0.4 | soil | 4 | og-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 10-Sep-11 | 250 | - |
| 107873 | 2011 | West Rim | 535227 | 6313148 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 4 | mod | 10-Sep-11 | 450 | - |
| 107874 | 2011 | West Rim | 535192 | 6313128 | 0.3 | soil | 3 | og-br | silty sand | poor | abnt | ang | up to 3 | mod | 10-Sep-11 | 370 | - |
| 107875 | 2011 | West Rim | 535038 | 6313272 | 0.3 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 5 | abdt | 10-Sep-11 | 475 | - |
| 107876 | 2011 | West Rim | 535083 | 6313294 | 0.35 | soil | 3 | og-br | silty sand | well | abnt | - | - | trace | 10-Sep-11 | 250 | - |
| 107877 | 2011 | West Rim | 535125 | 6313320 | 0.3 | soil | 3 | dk br | sandy silt | moderate | abnt | sub-ang to ang | up to 5 | mod | 10-Sep-11 | 250 | - |
| 107878 | 2011 | West Rim | 535169 | 6313345 | 0.35 | soil | 3 | lt br | sandy silt | poor | abnt | sub-ang | up to 12 | trace | 10-Sep-11 | 325 | - |
| 107879 | 2011 | West Rim | 535214 | 6313372 | 0.25 | soil | 3 | lt br | silty clay | moderate | abnt | sub-ang | 1 | trace | 10-Sep-11 | 230 | - |
| 107880 | 2011 | West Rim | 535256 | 6313396 | 0.45 | soil | 3 | lt br | clayey silt | moderate | abnt | sub-ang | 2 | trace | 10-Sep-11 | 210 | - |
| 107881 | 2011 | West Rim | 534681 | 6312600 | 0.5 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | 1 | - | 12-Sep-11 | 50 | - |
| 107882 | 2011 | West Rim | 534634 | 6312576 | 0.4 | soil | 4 | dk br | silt | well | abnt | - | - | mod | 12-Sep-11 | 55 | - |
| 107883 | 2011 | West Rim | 534536 | 6312746 | 0.4 | soil | 3 | lt br | sandy silt | - | abnt | sub-ang | 1 | mod | 12-Sep-11 | 75 | - |
| 107884 | 2011 | West Rim | 534578 | 6312768 | 0.25 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang to oblate | up to 2 | trace | 12-Sep-11 | 110 | - |
| 107885 | 2011 | West Rim | 534621 | 6312795 | 0.2 | soil | 3 | og-br | sandy silt | moderate | abnt | sub-ang to oblate | up to 1 | trace | 12-Sep-11 | 75 | - |
| 107886 | 2011 | West Rim | 534661 | 6312824 | 0.45 | soil | 3 | lt br | silty sand | moderate | abnt | sub-ang | 1 | trace | 12-Sep-11 | 75 | - |
| 107887 | 2011 | West Rim | 534714 | 6312846 | 0.15 | soil | 2 | og-br | silty sand | poor | abnt | ang | up to 5 | mod | 12-Sep-11 | 160 | - |
| 107888 | 2011 | West Rim | 534751 | 6312872 | 0.35 | soil | 3 | med br | silt | moderate | abnt | sub-ang | 1 | trace | 12-Sep-11 | 95 | - |
| 107889 | 2011 | West Rim | 534795 | 6312900 | 0.3 | soil | 5 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 12-Sep-11 | 220 | - |
| 107890 | 2011 | West Rim | 534836 | 6312924 | 0.25 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 12-Sep-11 | 375 | - |
| 107891 | 2011 | West Rim | 534884 | 6312950 | 0.3 | soil | 2 | med br | sandy silt | poor | abnt | sub-ang | up to 4 | trace | 13-Sep-11 | 580 | - |
| 107892 | 2011 | West Rim | 534926 | 6312970 | 0.45 | soil | 3 | og-br | sandy silt | poor | abnt | - | up to 2 | trace | 13-Sep-11 | 850 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------|-------------|----------|-----------------------|-------------------|-----------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107893 | 2011 | West Rim | 534964 | 6312993 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 4 | abdt | 13-Sep-11 | 640 | - |
| 107894 | 2011 | West Rim | 535012 | 6313025 | 0.4 | soil | 3 | med br | - | moderate | abnt | sub-ang | up to 1 | abdt | 13-Sep-11 | 520 | - |
| 107895 | 2011 | West Rim | 534822 | 6313146 | 0.3 | soil | 2 | lt br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 550 | - |
| 107896 | 2011 | West Rim | 534779 | 6313122 | 0.3 | soil | 4 | med br | - | poor | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 260 | - |
| 107897 | 2011 | West Rim | 534738 | 6313092 | 0.4 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 140 | - |
| 107898 | 2011 | West Rim | 534692 | 6313069 | 0.4 | soil | 3 | lt br | sand | moderate | abnt | sub-ang | 1 | trace | 13-Sep-11 | 90 | - |
| 107899 | 2011 | West Rim | 534650 | 6313044 | 0.3 | soil | 2 | - | silty sand | well | abnt | - | - | trace | 13-Sep-11 | 85 | - |
| 107900 | 2011 | West Rim | 534603 | 6313024 | 0.4 | soil | 3 | med br | - | well | abnt | - | - | none | 13-Sep-11 | 75 | - |
| 107901 | 2011 | West Rim | 534566 | 6312991 | 0.45 | soil | 4 | dk br | - | moderate | abnt | sub-ang to oblate | up to 2 | none | 13-Sep-11 | 125 | - |
| 107902 | 2011 | West Rim | 534519 | 6312969 | 0.55 | soil | 5 | dk gy-br | - | well | abnt | - | - | abdt | 13-Sep-11 | 50 | - |
| 107903 | 2011 | West Rim | 534506 | 6313197 | 0.45 | soil | 3 | med br | silty sand | well | abnt | - | - | none | 13-Sep-11 | 70 | - |
| 107904 | 2011 | West Rim | 534551 | 6313217 | 0.35 | soil | 3 | med br | sandy silt | well | abnt | - | - | none | 13-Sep-11 | 75 | - |
| 107905 | 2011 | West Rim | 534594 | 6313244 | 0.4 | soil | 3 | med br | sandy silt | well | abnt | - | - | trace | 13-Sep-11 | 90 | - |
| 107906 | 2011 | West Rim | 534638 | 6313269 | 0.4 | soil | 3 | med br | - | moderate | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 160 | - |
| 107907 | 2011 | West Rim | 534683 | 6313292 | 0.25 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 130 | - |
| 107908 | 2011 | West Rim | 534726 | 6313315 | 0.2 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 300 | - |
| 107909 | 2011 | West Rim | 534768 | 6313345 | 0.3 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 490 | - |
| 107910 | 2011 | West Rim | 534811 | 6313368 | 0.4 | soil | 3 | og-br | sandy silt | well | abnt | - | - | trace | 13-Sep-11 | 280 | - |
| 107911 | 2011 | West Rim | 534853 | 6313394 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 13-Sep-11 | 625 | - |
| 107912 | 2011 | West Rim | 534896 | 6313420 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 13-Sep-11 | 370 | - |
| 107913 | 2011 | West Rim | 534938 | 6313443 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 13-Sep-11 | 570 | - |
| 107914 | 2011 | West Rim | 534984 | 6313470 | 0.15 | soil | 2 | med br | silty sand | well | abnt | - | - | trace | 13-Sep-11 | 340 | - |
| 107915 | 2011 | West Rim | 535026 | 6313493 | 0.2 | soil | 3 | lt br | - | well | abnt | - | - | trace | 13-Sep-11 | 270 | - |
| 107916 | 2011 | West Rim | 535076 | 6313518 | 0.4 | soil | 3 | og-br | - | well | abnt | - | - | trace | 13-Sep-11 | 390 | - |
| 107917 | 2011 | West Rim | 535117 | 6313546 | 0.45 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 13-Sep-11 | 320 | - |
| 107918 | 2011 | West Rim | 535159 | 6313572 | 0.5 | soil | 5 | dk br | clayey silt | well | abnt | - | up to 5 | abdt | 12-Sep-11 | 288 | - |
| 107919 | 2011 | West Rim | 535197 | 6313595 | 0.45 | soil | 5 | dk br | clayey silt | well | abnt | sub-ang | up to 6 | abdt | 12-Sep-11 | 107 | - |
| 107920 | 2011 | West Rim | 535245 | 6313619 | 0.35 | soil | 3 | med br | clayey silt | poor | abnt | sub-ang | up to 10 | mod | 12-Sep-11 | 170 | - |
| 107921 | 2011 | West Rim | 535390 | 6313477 | 0.15 | soil | 3 | og-br | sandy silt | poor | abnt | sub-ang | up to 2 | trace | 12-Sep-11 | 982 | - |
| 107922 | 2011 | West Rim | 535430 | 6313501 | 0.45 | soil | 4 | dk br | sandy silt | poor | abnt | sub-ang | up to 2 | mod | 12-Sep-11 | 469 | - |
| 107923 | 2011 | West Rim | 535474 | 6313525 | 0.4 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang | up to 10 | trace | 12-Sep-11 | 340 | - |
| 107924 | 2011 | West Rim | 535517 | 6313546 | 0.25 | soil | 3 | r-br | sandy silt | poor | abnt | sub-ang | up to 10 | trace | 12-Sep-11 | 450 | - |
| 107925 | 2011 | West Rim | 535561 | 6313576 | 0.35 | soil | 3 | og-br | clayey silt | moderate | abnt | sub-ang | up to 7 | trace | 12-Sep-11 | 201 | - |
| 107926 | 2011 | West Rim | 535604 | 6313597 | 0.3 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 15-Sep-11 | 225 | - |
| 107927 | 2011 | West Rim | 535642 | 6313623 | 0.35 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | up to 1 | trace | 15-Sep-11 | 305 | - |
| 107928 | 2011 | West Rim | 535687 | 6313646 | 0.4 | soil | 3 | lt br | sandy silt | moderate | abnt | sub-ang | up to 7 | trace | 15-Sep-11 | 700 | - |
| 107929 | 2011 | West Rim | 535727 | 6313670 | 0.35 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang to oblate | up to 10 | mod | 15-Sep-11 | 925 | - |
| 107930 | 2011 | West Rim | 535777 | 6313696 | 0.35 | soil | 3 | - | silty sand | moderate | abnt | sub-ang | up to 1 | trace | 15-Sep-11 | 1676 | - |
| 107931 | 2011 | West Rim | 535819 | 6313724 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 15-Sep-11 | 1040 | - |
| 107932 | 2011 | West Rim | 535864 | 6313747 | 0.35 | soil | 3 | lt br | sandy silt | well | abnt | sub-ang | up to 3 | trace | 15-Sep-11 | 276 | - |
| 107933 | 2011 | West Rim | 535908 | 6313772 | 0.25 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 8 | abdt | 15-Sep-11 | 202 | - |
| 107934 | 2011 | West Rim | 535949 | 6313799 | 0.35 | soil | 3 | med br | silty sand | poor | abnt | sub-ang to oblate | up to 2 | trace | 15-Sep-11 | 185 | - |
| 107935 | 2011 | West Rim | 535993 | 6313823 | 0.35 | soil | 4 | lt br | silty sand | moderate | abnt | sub-ang | up to 10 | trace | 15-Sep-11 | 192 | - |
| 107936 | 2011 | West Rim | 536036 | 6313848 | 0.35 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 15-Sep-11 | 115 | - |
| 107937 | 2011 | West Rim | 536080 | 6313875 | 0.4 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 15-Sep-11 | 127 | - |
| 107938 | 2011 | West Rim | 536125 | 6313898 | 0.6 | soil | 5 | lt br | silty sand | poor | abnt | sub-ang to oblate | up to 15 | trace | 15-Sep-11 | 94 | - |
| 107939 | 2011 | West Rim | 536169 | 6313918 | 0.25 | soil | 2 | lt br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 15-Sep-11 | 121 | - |
| 107940 | 2011 | West Rim | 536210 | 6313952 | 0.25 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 15-Sep-11 | 105 | - |
| 107941 | 2011 | West Rim | 536250 | 6313973 | 0.35 | soil | 4 | lt br | silty sand | poor | abnt | sub-ang | up to 4 | trace | 15-Sep-11 | 109 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|-------|-----------|-------------|----------|-----------------------|---------|-----------|----------|-----------|------|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 107942 | 2011 | West Rim | 535272 | 6313868 | 0.35 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 10 | trace | 17-Sep-11 | 335 | - |
| 107943 | 2011 | West Rim | 535314 | 6313893 | 0.45 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang | up to 20 | trace | 17-Sep-11 | 325 | - |
| 107944 | 2011 | West Rim | 535358 | 6313918 | 0.45 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang | up to 20 | mod | 17-Sep-11 | 300 | - |
| 107945 | 2011 | West Rim | 535444 | 6313969 | 0.35 | soil | 4 | lt br | clayey silt | poor | abnt | sub-ang | up to 12 | trace | 17-Sep-11 | 250 | - |
| 107946 | 2011 | West Rim | 535487 | 6313994 | 0.3 | soil | 3 | dk br | sandy silt | well | abnt | - | - | mod | 17-Sep-11 | 350 | - |
| 107947 | 2011 | West Rim | 535530 | 6314017 | 0.35 | soil | 3 | dk br | silt | well | abnt | - | - | mod | 17-Sep-11 | 550 | - |
| 107948 | 2011 | West Rim | 535573 | 6314043 | 0.45 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 650 | - |
| 107949 | 2011 | West Rim | 535619 | 6314068 | 0.4 | soil | 2 | r-br | silty sand | moderate | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 475 | - |
| 107950 | 2011 | West Rim | 535660 | 6314093 | 0.25 | soil | 2 | med br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 275 | - |
| 107951 | 2011 | West Rim | 535705 | 6314118 | 0.35 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | 1 | trace | 17-Sep-11 | 215 | - |
| 107952 | 2011 | West Rim | 535747 | 6314143 | 0.55 | soil | 4 | lt br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 200 | - |
| 107953 | 2011 | West Rim | 535789 | 6314168 | 0.3 | soil | 4 | dk br | silt | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 220 | - |
| 107954 | 2011 | West Rim | 535833 | 6314193 | 0.4 | soil | 3 | gy-br | silty sand | moderate | abnt | sub-ang | up to 8 | trace | 17-Sep-11 | 775 | - |
| 107955 | 2011 | West Rim | 535876 | 6314218 | 0.35 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | up to 3 | trace | 17-Sep-11 | 250 | - |
| 107956 | 2011 | West Rim | 535919 | 6314242 | 0.4 | soil | 3 | med br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 175 | - |
| 107957 | 2011 | West Rim | 535963 | 6314270 | 0.45 | soil | 5 | dk br | silty sand | poor | abnt | sub-ang | up to 1 | trace | 17-Sep-11 | 200 | - |
| 107958 | 2011 | West Rim | 536009 | 6314291 | 0.45 | soil | 3 | med br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 280 | - |
| 107959 | 2011 | West Rim | 536051 | 6314318 | 0.6 | soil | 5 | dk br | silt | well | abnt | - | - | mod | 17-Sep-11 | 100 | - |
| 107960 | 2011 | West Rim | 536151 | 6314146 | 0.2 | soil | 3 | gy-br | silty sand | - | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 120 | - |
| 107961 | 2011 | West Rim | 536108 | 6314120 | 0.45 | soil | 3 | lt br | silty sand | poor | abnt | sub-ang | 1 | trace | 17-Sep-11 | 125 | - |
| 107962 | 2011 | West Rim | 536065 | 6314096 | 0.4 | soil | 3 | gy-br | sandy silt | well | abnt | sub-ang | 1 | trace | 17-Sep-11 | 265 | - |
| 107963 | 2011 | West Rim | 536020 | 6314070 | 0.45 | soil | 5 | dk br | sandy silt | poor | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 300 | - |
| 107964 | 2011 | West Rim | 535978 | 6314045 | 0.45 | soil | 5 | med br | silty sand | poor | abnt | sub-ang | up to 2 | trace | 17-Sep-11 | 170 | - |
| 107965 | 2011 | West Rim | 535934 | 6314020 | 0.4 | soil | 3 | og-br | silty sand | poor | abnt | sub-ang | up to 3 | trace | 17-Sep-11 | 250 | - |
| 107966 | 2011 | West Rim | 535892 | 6313994 | 0.45 | soil | 2 | og-br | silty sand | poor | abnt | sub-ang | up to 5 | trace | 17-Sep-11 | 225 | - |
| 107967 | 2011 | West Rim | 535847 | 6313969 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 190 | - |
| 107968 | 2011 | West Rim | 535807 | 6313946 | 0.3 | soil | 3 | og-br | silty sand | moderate | abnt | sub-ang | 1 | trace | 17-Sep-11 | 175 | - |
| 107969 | 2011 | West Rim | 535762 | 6313917 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | up to 8 | trace | 17-Sep-11 | 240 | - |
| 107970 | 2011 | West Rim | 535718 | 6313897 | 0.2 | soil | 3 | med br | sandy silt | moderate | abnt | sub-ang | 1 | mod | 17-Sep-11 | 505 | - |
| 107971 | 2011 | West Rim | 535677 | 6313868 | 0.55 | soil | 3 | dk gy-br | silt | well | abnt | ang | 4 | mod | 17-Sep-11 | 550 | - |
| 107972 | 2011 | West Rim | 535632 | 6313846 | 0.35 | soil | 2 | og-br | silty sand | moderate | abnt | sub-ang | 3 | trace | 17-Sep-11 | 900 | - |
| 107973 | 2011 | West Rim | 535589 | 6313820 | 0.45 | soil | 2 | r-br | silty sand | poor | abnt | sub-ang | up to 8 | trace | 17-Sep-11 | 475 | - |
| 107974 | 2011 | West Rim | 535546 | 6313796 | 0.55 | soil | 3 | dk br-blk | silt | well | abnt | - | - | abdt | 17-Sep-11 | 550 | - |
| 107975 | 2011 | West Rim | 535503 | 6313771 | 0.55 | soil | 3 | r-br | silty sand | poor | abnt | sub-ang | up to 12 | abdt | 17-Sep-11 | 500 | - |
| 92001 | 2011 | Off Grid | 541159 | 6311709 | 0.4 | soil | - | dk br | clay | - | abnt | fissile | - | - | 2-Jul-11 | 700 | - |
| 92002 | 2011 | Off Grid | 540308 | 6311778 | 0.2 | soil | - | dk og-br | clay | - | abnt | - | - | - | 4-Jul-11 | 800 | Extremely wtdh rock? Assay: 0.6% K; 16.6ppm Th; 81.0ppm U |
| 92003 | 2011 | Off Grid | 540564 | 6312509 | 0.4 | soil | 3 | og-br-r | silty sand | - | abnt | sub-rnd | 5 | mod | 7-Jul-11 | 600 | - |
| 92004 | 2011 | Off Grid | 541065 | 6311893 | 0.3 | soil | 3 | r-br | silty sand | - | abnt | - | 2 | - | 23-Jul-11 | 1300 | - |
| 107355 | 2011 | Off Grid | 537444 | 6311427 | 0.3 | soil | 5 | lt br | clay | well | abnt | - | - | trace | 28-Aug-11 | 600 | no assay received |
| 28151 | 2010 | Off Grid | 537393 | 6313055 | - | soil | moist | rusty br | - | - | abnt | peb | ~5 x 25cm | - | 13-Jul-10 | 450 | Miranna Trench, On surface to about 2ft soil is deep rusty br, very moist and dense. Below, soil is more coherent, like clay, and dk gy. Linked to rock sample 83364, 450 CPS (bag) |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|-------|-------------|------|---------|-----------------------|-----------------------------|------------|----------|-----------|------|--|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 28152 | 2010 | Off Grid | 537479 | 6312842 | - | soil | moist | dk br-r | - | - | abnt | - | 5x3cm | - | 14-Jul-10 | 2000 | Miranna Trench, soil is dense and moist to approx 1.5 ft., then gets more coherent, like clay. Assay performed in field at surface (666ppm Th, 32ppm U), 320 CPS (bag) |
| 28153 | 2010 | Off Grid | 537381 | 6312985 | - | soil | moist | rusty og-br | - | - | abnt | - | - | - | 14-Jul-10 | 2700 | Miranna Trench, Soil is dense. Assay performed (123ppm U, 358ppm Th), 400 CPS (bag) |
| 28154 | 2010 | Off Grid | 537386 | 6313052 | - | soil | moist | lt og-br | - | - | abnt | peb | 3x4cm | - | 14-Jul-10 | 4200 | Miranna Trench, Soil is dense. Greater than 1ft depth, soil is dk br and clay like. Soil becomes finer with depth. 350 CPS (bag) |
| 28155 | 2010 | Off Grid | 537389 | 6313078 | - | soil | - | rusty og-br | - | - | abnt | - | - | - | 14-Jul-10 | 3800 | Miranna Trench, Soil is very coherent and dense, but easy to break apart. Assay performed (174ppm U, 920ppm Th), 360 CPS (bag) |
| 28156 | 2010 | Off Grid | 537399 | 6313027 | - | soil | - | rusty og-br | - | - | abnt | - | - | - | 14-Jul-10 | 5300 | Miranna Trench, Same as 28155, sample taken under trees. Assay performed (1505ppm Th, 353ppm U), 580 CPS (bag) |
| 28157 | 2010 | Off Grid | 537381 | 6313025 | - | soil | - | - | - | - | abnt | - | - | - | 14-Jul-10 | 3900 | Miranna Trench, same as 28153. Assay performed (1496ppm Th, 176ppm U), 500 CPS (bag) |
| 28158 | 2010 | Off Grid | 537399 | 6313026 | - | soil | 3 | gy-br | - | - | abnt | sub-ang | peb | few | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 80 - 100 cm above bedrock: clasts are subprismatic, 710 cps at surface |
| 28159 | 2010 | Off Grid | 537399 | 6313026 | - | soil | 3 | med br | - | - | abnt | sub-ang | peb | few | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 60 - 80 cm above bedrock: 459 cps at surface |
| 28160 | 2010 | Off Grid | 537399 | 6313026 | - | soil | 3 | dk y-br | - | - | abnt | sub-ang | peb | few-none | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 40 - 60 cm above bedrock: 310 cps at surface |
| 28161 | 2010 | Off Grid | 537399 | 6313026 | - | soil | 3 | dk y-br | - | - | abnt | sub-ang to sub-rnd | grains-peb | none | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 25 - 40 cm above bedrock: 330 cps at surface |
| 28162 | 2010 | Off Grid | 537392 | 6313029 | - | soil | 2 | dk y-br | - | - | abnt | sub-ang to sub-rnd | peb | none | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 85 - 100 cm above bedrock: 300 cps at surface, greasy |
| 28163 | 2010 | Off Grid | 537392 | 6313029 | - | soil | 3 | gy-br | - | - | abnt | - | - | none | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 60 - 85 cm above bedrock: 720 cps at surface, hotspot; maybe wthd carb?! |
| 28164 | 2010 | Off Grid | 537392 | 6313029 | - | soil | 3 | med br | - | - | abnt | sub-ang | peb | few | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 60 - 85 cm above bedrock: 690 cps at surface |
| 28165 | 2010 | Off Grid | 537392 | 6313029 | - | soil | 3 | dk y-br | - | - | abnt | circular and rnd to sub-ang | 1-2mm | none | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 30 - 50 cm above bedrock: 310 cps at surface |
| 28166 | 2010 | Off Grid | 537392 | 6313029 | - | soil | 3 | med y-br | - | - | abnt | sub-ang | peb | few | 2-Aug-10 | 270 | Miranna Trench 17A, Interval 15 - 25 cm above bedrock: hard and compact, 480 cps at surface |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|--------------|------|-----------------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|------|--|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 28167 | 2010 | Off Grid | 537399 | 6313026 | - | soil | 2 | med to dk gy to br-gy | - | - | abnt | sub-ang to sub-rnd | grain-peb | none | 2-Aug-10 | 190 | Miranna Trench 17A, Interval 0 - 15 cm above bedrock: peb are abnt and sub-ang, grains are ~2mm abnt and sub-rnd |
| 28168 | 2010 | Off Grid | 537391 | 6313045 | - | soil | 3 | gy-br | - | - | abnt | - | - | few | 2-Aug-10 | 170 | Miranna Trench 17B, Interval 190 - 210 cm above bedrock: 430 cps at surface |
| 28169 | 2010 | Off Grid | 537390 | 6313045 | - | soil | 3 | med br | - | - | abnt | sub-ang | peb-cob | none | 2-Aug-10 | 150 | Miranna Trench 17B, Interval 140 - 190 cm above bedrock: 380 cps at surface |
| 28170 | 2010 | Off Grid | 537391 | 6313045 | - | soil | 2 | med to dk gy to br-gy | - | - | abnt | sub-ang | peb | none | 2-Aug-10 | 160 | Miranna Trench 17B, Interval 100 - 140 cm above bedrock: 320 cps at surface |
| 28171 | 2010 | Off Grid | 537391 | 6313045 | - | composite sc | 3 | med y-br | - | - | abnt | sub-ang | 1cm | few | 2-Aug-10 | 150 | Miranna Trench 17B, Interval 75 - 100 cm above bedrock: 370 cps at surface, from specific y withd boulder |
| 28172 | 2010 | Off Grid | 537391 | 6313045 | 0.75 | soil | 2 | med to dk gy to br-gy | - | - | abnt | sub-ang | peb | none | 2-Aug-10 | 150 | Miranna Trench 17B, Interval 0 - 75 cm above bedrock: 200 cps at surface |
| 28173 | 2010 | Off Grid | 541334 | 6311721 | 0.30 | soil | 3 | dk r-br | - | - | abnt | ang | peb | mod | 4-Aug-10 | 2700 | 370 CPS (bag), 150 CPS background, greasy |
| 28174 | 2010 | Off Grid | 541322 | 6311737 | 0.15 | soil | - | dk br-r | - | - | abnt | ang | peb | mod | 4-Aug-10 | 7663 | 1100 CPS (bag), 150 CPS background, rocks not hot but soil is, assay performed (0ppm K, 0ppm U, 4213ppm Th) |
| 43176 | 2010 | Triple-D | 535589 | 6313590 | 0.35 | soil | 2 | dk br-blk | - | - | abnt | ang | grit-cob | mod | 15-Oct-10 | 420 | - |
| 43177 | 2010 | Triple-D | 535610 | 6313601 | 0.25 | soil | 3 | med br-blk | - | - | abnt | - | - | mod | 15-Oct-10 | 280 | - |
| 43178 | 2010 | Triple-D | 535632 | 6313613 | 0.35 | soil | 2 | lt to dk br | - | - | abnt | ang | grit-peb | low | 15-Oct-10 | 420 | - |
| 43179 | 2010 | Triple-D | 535650 | 6313628 | 0.30 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-cob | low | 15-Oct-10 | 510 | - |
| 43180 | 2010 | Triple-D | 535674 | 6313640 | 0.40 | soil | 3 | med to dk br | - | - | abnt | ang | grit-cob | high | 15-Oct-10 | 390 | - |
| 43181 | 2010 | Triple-D | 535694 | 6313654 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 440 | - |
| 43182 | 2010 | Triple-D | 535716 | 6313662 | 0.40 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | few | 15-Oct-10 | 480 | - |
| 43183 | 2010 | Triple-D | 535733 | 6313678 | 0.35 | soil | 2 | med br | - | - | abnt | sub-rnd | grit-peb | low | 15-Oct-10 | 970 | - |
| 43184 | 2010 | Triple-D | 535756 | 6313691 | 0.40 | soil | 2 | dk br | - | - | abnt | sub-rnd | grit-peb | low | 15-Oct-10 | 370 | - |
| 43185 | 2010 | Triple-D | 535779 | 6313702 | 0.35 | soil | 2 | dk br | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 1120 | - |
| 43186 | 2010 | Triple-D | 535801 | 6313716 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-cob | mod | 15-Oct-10 | 500 | - |
| 43187 | 2010 | Triple-D | 535819 | 6313728 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 360 | - |
| 43188 | 2010 | Triple-D | 535839 | 6313740 | 0.40 | soil | 1 | br-og | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 275 | - |
| 43189 | 2010 | Triple-D | 535862 | 6313752 | 0.35 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | med | 15-Oct-10 | 270 | - |
| 43190 | 2010 | Triple-D | 535883 | 6313767 | 0.35 | soil | 2 | dk br | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 530 | - |
| 43191 | 2010 | Triple-D | 535872 | 6313865 | 0.40 | soil | 2 | br-og-gy | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 300 | - |
| 43192 | 2010 | Triple-D | 535848 | 6313853 | 0.35 | soil | 2 | med br | - | - | abnt | sub-rnd | grit-peb | few | 15-Oct-10 | 230 | - |
| 43193 | 2010 | Triple-D | 535827 | 6313838 | 0.30 | soil | 2 | med br-blk-gy | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 320 | - |
| 43194 | 2010 | Triple-D | 535808 | 6313826 | 0.35 | soil | 1 | med br | - | - | abnt | ang | grit-peb | few | 15-Oct-10 | 300 | - |
| 43195 | 2010 | Triple-D | 535785 | 6313814 | 0.30 | soil | 2 | med br | - | - | abnt | - | grit | low | 15-Oct-10 | 810 | - |
| 43196 | 2010 | Triple-D | 535766 | 6313799 | 0.30 | soil | 2 | dk br | - | - | abnt | - | - | few | 15-Oct-10 | 540 | - |
| 43197 | 2010 | Triple-D | 535745 | 6313790 | 0.45 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | few | 15-Oct-10 | 1140 | - |
| 43198 | 2010 | Triple-D | 535725 | 6313774 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 700 | - |
| 43199 | 2010 | Triple-D | 535701 | 6313762 | 0.35 | soil | 3 | med br-blk | - | - | abnt | - | grit | high | 15-Oct-10 | 610 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|------|-----------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 43200 | 2010 | Triple-D | 535681 | 6313752 | 0.40 | soil | 2 | med br | - | - | abnt | sub-ang to sub-rnd | grit-cob | low | 15-Oct-10 | 950 | - |
| 46501 | 2010 | Triple-D | 535659 | 6313739 | 0.35 | soil | 2 | dk br | - | - | abnt | sub-ang | grit-cob | low | 15-Oct-10 | 630 | - |
| 46502 | 2010 | Triple-D | 535640 | 6313726 | 0.30 | soil | 2 | dk br | - | - | abnt | ang | grit-cob | mod | 15-Oct-10 | 520 | - |
| 46503 | 2010 | Triple-D | 535617 | 6313715 | 0.40 | soil | 3 | med br | - | - | abnt | - | - | high | 15-Oct-10 | 450 | - |
| 46504 | 2010 | Triple-D | 535595 | 6313699 | 0.30 | soil | 2 | lt to med br | - | - | abnt | sub-rnd | grit-peb | low | 15-Oct-10 | 420 | - |
| 46505 | 2010 | Triple-D | 535577 | 6313687 | 0.40 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 320 | - |
| 46506 | 2010 | Triple-D | 535557 | 6313677 | 0.30 | soil | 2 | med br | - | - | abnt | - | - | high | 15-Oct-10 | 370 | - |
| 46507 | 2010 | Triple-D | 535522 | 6313762 | 0.35 | soil | 2 | med br | - | - | abnt | - | grit | high | 15-Oct-10 | 500 | - |
| 46508 | 2010 | Triple-D | 535542 | 6313777 | 0.35 | soil | 2 | dk br | - | - | abnt | ang | grit-peb | mod | 15-Oct-10 | 340 | - |
| 46509 | 2010 | Triple-D | 535562 | 6313788 | 0.40 | soil | 2 | blk | - | - | abnt | - | - | high | 15-Oct-10 | 380 | - |
| 46510 | 2010 | Triple-D | 535584 | 6313800 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 450 | - |
| 46511 | 2010 | Triple-D | 535605 | 6313813 | 0.30 | soil | 2 | lt to dk br | - | - | abnt | sub-ang to sub-rnd | grit-peb | mod | 15-Oct-10 | 360 | - |
| 46512 | 2010 | Triple-D | 535625 | 6313824 | 0.40 | soil | 3 | dk br | - | - | abnt | sub-ang | grit-peb | high | 15-Oct-10 | 460 | - |
| 46513 | 2010 | Triple-D | 535648 | 6313840 | 0.40 | soil | 2 | med br | - | - | abnt | ang | grit-cob | low | 15-Oct-10 | 630 | - |
| 46514 | 2010 | Triple-D | 535671 | 6313850 | 0.35 | soil | 2 | br-og | - | - | abnt | ang to sub-ang | grit-peb | low | 15-Oct-10 | 540 | - |
| 46515 | 2010 | Triple-D | 535689 | 6313866 | 0.45 | soil | 3 | med br | - | - | abnt | sub-ang | grit-cob | low | 15-Oct-10 | 410 | - |
| 46516 | 2010 | Triple-D | 535707 | 6313877 | 0.30 | soil | 2 | br-og-blk | - | - | abnt | sub-ang | grit-cob | mod | 15-Oct-10 | 500 | - |
| 46517 | 2010 | Triple-D | 535728 | 6313889 | 0.35 | soil | 2 | med br | - | - | abnt | ang | grit-cob | low | 15-Oct-10 | 640 | - |
| 46518 | 2010 | Triple-D | 535751 | 6313901 | 0.40 | soil | 2 | lt br | - | - | abnt | sub-rnd | grit-peb | low | 15-Oct-10 | 400 | - |
| 46519 | 2010 | Triple-D | 535772 | 6313912 | 0.35 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | mod | 15-Oct-10 | 240 | - |
| 46520 | 2010 | Triple-D | 535794 | 6313926 | 0.30 | soil | 2 | lt to dk br | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 320 | - |
| 46521 | 2010 | Triple-D | 535812 | 6313936 | 0.40 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | low | 15-Oct-10 | 200 | - |
| 46522 | 2010 | Triple-D | 535834 | 6313950 | 0.40 | soil | 1 | br-og | - | - | abnt | sub-rnd | grit-peb | low | 15-Oct-10 | 160 | - |
| 46523 | 2010 | Triple-D | 535856 | 6313962 | 0.40 | soil | 2 | br-og | - | - | abnt | ang to sub-ang | grit-peb | low | 15-Oct-10 | 180 | - |
| 87326 | 2010 | Triple-D | 536033 | 6313319 | 0.25 | soil | 2 | med br | - | - | abnt | sub-rnd | grit-peb | mod | 13-Oct-10 | 185 | - |
| 87327 | 2010 | Triple-D | 536015 | 6313305 | 0.30 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 155 | - |
| 87328 | 2010 | Triple-D | 535990 | 6313294 | 0.30 | soil | 2 | lt to med br | - | - | abnt | sub-ang to sub-rnd | grit-peb | low | 13-Oct-10 | 175 | - |
| 87329 | 2010 | Triple-D | 535970 | 6313280 | 0.30 | soil | 2 | med br-og | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 170 | - |
| 87330 | 2010 | Triple-D | 535949 | 6313271 | 0.20 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 13-Oct-10 | 600 | 1900 cps down hole |
| 87331 | 2010 | Triple-D | 535929 | 6313258 | 0.35 | soil | 3 | dk br | - | - | abnt | ang | grit-peb | mod | 13-Oct-10 | 500 | 4700 cps down hole |
| 87332 | 2010 | Triple-D | 535908 | 6313243 | 0.30 | soil | 3 | med to dk br | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 1200 | - |
| 87333 | 2010 | Triple-D | 535884 | 6313229 | 0.45 | soil | 3 | br-og | - | - | abnt | ang | grit-peb | mod | 13-Oct-10 | 650 | - |
| 87334 | 2010 | Triple-D | 535822 | 6313194 | 0.40 | soil | 4 | lt br-gy | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 400 | - |
| 87335 | 2010 | Triple-D | 535804 | 6313182 | 0.40 | soil | 5 | lt br-gy | - | - | abnt | sub-ang | grit-cob | low | 13-Oct-10 | 400 | - |
| 87336 | 2010 | Triple-D | 535781 | 6313172 | 0.40 | soil | 4 | gy | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 360 | - |
| 87337 | 2010 | Triple-D | 535760 | 6313155 | 0.30 | soil | 3 | gy | - | - | abnt | - | grit | mod | 13-Oct-10 | 350 | outcrop, 450 cps at outcrop |
| 87338 | 2010 | Triple-D | 535737 | 6313143 | 0.35 | soil | 3 | med to dk br | - | - | abnt | sub-ang | grit-cob | mod | 13-Oct-10 | 240 | - |
| 87339 | 2010 | Triple-D | 535706 | 6313229 | 0.30 | soil | 3 | lt br-gy | - | - | abnt | - | grit | high | 13-Oct-10 | 310 | - |
| 87340 | 2010 | Triple-D | 535726 | 6313241 | 0.30 | soil | 3 | lt br-gy | - | - | abnt | - | grit | mod | 13-Oct-10 | 420 | - |
| 87341 | 2010 | Triple-D | 535747 | 6313256 | 0.35 | soil | 3 | br-gy | - | - | abnt | ang to sub-ang | grit-cob | low | 13-Oct-10 | 490 | - |
| 87342 | 2010 | Triple-D | 535770 | 6313268 | 0.40 | soil | 3 | lt br | - | - | abnt | - | grit | low | 13-Oct-10 | 600 | 2400 cps down hole |
| 87343 | 2010 | Triple-D | 535790 | 6313279 | 0.35 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 420 | - |
| 87344 | 2010 | Triple-D | 535813 | 6313293 | 0.45 | soil | 2 | dk br | - | - | abnt | sub-ang to sub-rnd | grit-cob | mod | 13-Oct-10 | 330 | - |
| 87345 | 2010 | Triple-D | 535830 | 6313307 | 0.60 | soil | 5 | lt to dk br | - | - | abnt | - | grit | few | 13-Oct-10 | 250 | - |
| 87346 | 2010 | Triple-D | 535937 | 6313367 | 0.35 | soil | 5 | lt br | - | - | abnt | - | grit | mod | 13-Oct-10 | 200 | - |
| 87347 | 2010 | Triple-D | 535956 | 6313381 | 0.35 | soil | 2 | med br-og | - | - | abnt | sub-ang | grit-peb | few | 13-Oct-10 | 155 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|------|------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87348 | 2010 | Triple-D | 535977 | 6313393 | 0.40 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 170 | - |
| 87349 | 2010 | Triple-D | 535999 | 6313407 | 0.35 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 135 | - |
| 87350 | 2010 | Triple-D | 536022 | 6313420 | 0.25 | soil | 1 | br-og | - | - | abnt | - | grit | low | 13-Oct-10 | 210 | - |
| 87351 | 2010 | Triple-D | 535987 | 6313506 | 0.40 | soil | 5 | dk br | - | - | abnt | sub-rnd | grit-cob | mod | 13-Oct-10 | 230 | - |
| 87352 | 2010 | Triple-D | 535965 | 6313490 | 0.30 | soil | 3 | gy | - | - | abnt | sub-ang | grit-cob | low | 13-Oct-10 | 270 | - |
| 87353 | 2010 | Triple-D | 535943 | 6313477 | 0.35 | soil | 2 | med br | - | - | abnt | ang | grit-cob | low | 13-Oct-10 | 405 | - |
| 87354 | 2010 | Triple-D | 535925 | 6313466 | 0.30 | soil | 2 | med br | - | - | abnt | sub-rnd | grit-peb | low | 13-Oct-10 | 300 | - |
| 87355 | 2010 | Triple-D | 535900 | 6313453 | 0.30 | soil | 2 | med br | - | - | abnt | sub-rnd to sub-ang | grit-peb | mod | 13-Oct-10 | 220 | - |
| 87356 | 2010 | Triple-D | 535879 | 6313444 | 0.35 | soil | 1 | dk br | - | - | abnt | sub-ang | grit-peb | low | 13-Oct-10 | 350 | - |
| 87357 | 2010 | Triple-D | 535859 | 6313431 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang to ang | grit-cob | low | 13-Oct-10 | 2100 | 6100 cps in hole |
| 87358 | 2010 | Triple-D | 535841 | 6313417 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-rnd to sub-ang | grit-peb | low | 13-Oct-10 | 480 | - |
| 87359 | 2010 | Triple-D | 535818 | 6313404 | 0.30 | soil | 2 | med br | - | - | abnt | sub-ang | grit-cob | low | 14-Oct-10 | 1000 | - |
| 87360 | 2010 | Triple-D | 535796 | 6313392 | 0.35 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 720 | - |
| 87361 | 2010 | Triple-D | 535776 | 6313379 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-rnd | grit-peb | low | 14-Oct-10 | 370 | - |
| 87362 | 2010 | Triple-D | 535753 | 6313366 | 0.30 | soil | 2 | lt to med br | - | - | abnt | sub-ang | grit-cob | low | 14-Oct-10 | 495 | - |
| 87363 | 2010 | Triple-D | 535735 | 6313355 | 0.35 | soil | 2 | lt br | - | - | abnt | ang | grit-cob | low | 14-Oct-10 | 520 | - |
| 87364 | 2010 | Triple-D | 535713 | 6313343 | 0.30 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | mod | 14-Oct-10 | 540 | - |
| 87365 | 2010 | Triple-D | 535693 | 6313328 | 0.35 | soil | 3 | lt br | - | - | abnt | ang | grit-peb | low | 14-Oct-10 | 530 | - |
| 87366 | 2010 | Triple-D | 535665 | 6313322 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 380 | - |
| 87367 | 2010 | Triple-D | 535649 | 6313305 | 0.30 | soil | 2 | dk br | - | - | abnt | - | grit | high | 14-Oct-10 | 390 | - |
| 87368 | 2010 | Triple-D | 535616 | 6313390 | 0.35 | soil | 2 | lt to dk br | - | - | abnt | - | grit | low | 14-Oct-10 | 340 | - |
| 87369 | 2010 | Triple-D | 535639 | 6313405 | 0.40 | soil | 3 | med br | - | - | abnt | sub-ang | grit-peb | mod | 14-Oct-10 | 410 | - |
| 87370 | 2010 | Triple-D | 535658 | 6313415 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 300 | - |
| 87371 | 2010 | Triple-D | 535680 | 6313428 | 0.25 | soil | 2 | lt br | - | - | abnt | - | - | low | 14-Oct-10 | 360 | - |
| 87372 | 2010 | Triple-D | 535699 | 6313444 | 0.25 | soil | 2 | med br | - | - | abnt | ang to sub-rnd | - | low | 14-Oct-10 | 490 | - |
| 87373 | 2010 | Triple-D | 535722 | 6313452 | 0.40 | soil | 4 | lt br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 470 | - |
| 87374 | 2010 | Triple-D | 535743 | 6313465 | 0.40 | soil | 4 | lt br-gy | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 315 | - |
| 87375 | 2010 | Triple-D | 535762 | 6313480 | 0.40 | soil | 3 | lt br | - | - | abnt | rnd-ang | grit-cob | mod | 14-Oct-10 | 730 | - |
| 87376 | 2010 | Triple-D | 535784 | 6313490 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 530 | - |
| 87377 | 2010 | Triple-D | 535804 | 6313505 | 0.35 | soil | 2 | med br | - | - | abnt | ang | grit-cob | low | 14-Oct-10 | 815 | - |
| 87378 | 2010 | Triple-D | 535826 | 6313515 | 0.35 | soil | 2 | med br | - | - | abnt | ang | grit-peb | low | 14-Oct-10 | 600 | - |
| 87379 | 2010 | Triple-D | 535848 | 6313528 | 0.40 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 770 | - |
| 87380 | 2010 | Triple-D | 535869 | 6313541 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | mod | 14-Oct-10 | 1050 | - |
| 87381 | 2010 | Triple-D | 535890 | 6313552 | 0.35 | soil | 2 | med br | - | - | abnt | ang | grit-cob | low | 14-Oct-10 | 240 | - |
| 87382 | 2010 | Triple-D | 535911 | 6313565 | 0.40 | soil | 4 | med br-blk | - | - | abnt | sub-rnd | grit-peb | low | 14-Oct-10 | 155 | - |
| 87383 | 2010 | Triple-D | 535930 | 6313577 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 14-Oct-10 | 165 | - |
| 87384 | 2010 | Triple-D | 535875 | 6313652 | 0.40 | soil | 2 | med br-og | - | - | abnt | - | grit | low | 14-Oct-10 | 175 | - |
| 87385 | 2010 | Triple-D | 535854 | 6313641 | 0.40 | soil | 3 | med br-og | - | - | abnt | sub-rnd | grit-peb | low | 14-Oct-10 | 220 | - |
| 87386 | 2010 | Triple-D | 535835 | 6313627 | 0.40 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 390 | - |
| 87387 | 2010 | Triple-D | 535813 | 6313615 | 0.40 | soil | 1 | med br-og | - | - | abnt | - | grit | low | 14-Oct-10 | 535 | - |
| 87388 | 2010 | Triple-D | 535790 | 6313602 | 0.40 | soil | 2 | gy | - | - | abnt | - | - | low | 14-Oct-10 | 320 | - |
| 87389 | 2010 | Triple-D | 535768 | 6313589 | 0.35 | soil | 2 | med br | - | - | abnt | - | grit | mod | 14-Oct-10 | 900 | - |
| 87390 | 2010 | Triple-D | 535747 | 6313579 | 0.30 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | low | 14-Oct-10 | 580 | - |
| 87391 | 2010 | Triple-D | 535729 | 6313566 | 0.40 | soil | 4 | lt br-gy | - | - | abnt | - | - | low | 14-Oct-10 | 500 | - |
| 87392 | 2010 | Triple-D | 535707 | 6313553 | 0.40 | soil | 2 | med br-gy | - | - | abnt | sub-rnd | grit-peb | low | 14-Oct-10 | 360 | - |
| 87393 | 2010 | Triple-D | 535686 | 6313541 | 0.30 | soil | 2 | lt to med br | - | - | abnt | - | grit | mod | 14-Oct-10 | 1860 | - |
| 87394 | 2010 | Triple-D | 535663 | 6313528 | 0.35 | soil | 4 | gy | - | - | abnt | - | - | low | 14-Oct-10 | 415 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87395 | 2010 | Triple-D | 535645 | 6313517 | 0.35 | soil | 3 | dk gy | - | - | abnt | ang | grit-peb | low | 14-Oct-10 | 360 | - |
| 87396 | 2010 | Triple-D | 535622 | 6313504 | 0.40 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | mod | 14-Oct-10 | 390 | - |
| 87397 | 2010 | Triple-D | 535604 | 6313490 | 0.25 | soil | 2 | lt to med br | - | - | abnt | - | grit | low | 14-Oct-10 | 435 | - |
| 87398 | 2010 | Triple-D | 535582 | 6313475 | 0.30 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-cob | low | 14-Oct-10 | 270 | - |
| 87399 | 2010 | Triple-D | 535547 | 6313564 | 0.30 | soil | 4 | dk br-blk | - | - | abnt | - | - | high | 15-Oct-10 | 380 | - |
| 87400 | 2010 | Triple-D | 535568 | 6313577 | 0.40 | soil | 2 | dk br | - | - | abnt | - | - | mod | 15-Oct-10 | 335 | - |
| 87501 | 2010 | Regional | 547129 | 6307914 | - | soil | 1 | med br-og | - | - | abnt | sub-ang | grit-peb | low | 22-Jul-10 | 70 | - |
| 87502 | 2010 | Regional | 547087 | 6307891 | 0.25 | soil | 2 | med br | - | - | abnt | ang | peb-cob | high | 22-Jul-10 | 70 | - |
| 87503 | 2010 | Regional | 547041 | 6307862 | - | soil | 4 | gy | - | - | abnt | - | - | high | 22-Jul-10 | 60 | - |
| 87504 | 2010 | Regional | 546999 | 6307842 | 0.30 | soil | 3 | gy | - | - | abnt | - | - | low | 22-Jul-10 | 70 | - |
| 87505 | 2010 | Regional | 546962 | 6307815 | 0.25 | soil | 1 | med br | - | - | abnt | sub-ang | peb | high | 22-Jul-10 | 60 | - |
| 87506 | 2010 | Regional | 546911 | 6307790 | - | soil | 1 | lt br | - | - | abnt | ang | peb | low | 22-Jul-10 | 80 | - |
| 87507 | 2010 | Regional | 546869 | 6307765 | 0.30 | soil | 3 | gy | - | - | abnt | sub-ang to sub-rnd | peb | low | 22-Jul-10 | 80 | - |
| 87508 | 2010 | Regional | 546827 | 6307736 | 0.30 | soil | 3 | gy | - | - | abnt | - | - | low | 22-Jul-10 | 50 | - |
| 87509 | 2010 | Regional | 546785 | 6307713 | 0.30 | soil | 2 | dk br | - | - | abnt | sub-ang to ang | grit-peb | mod | 22-Jul-10 | 60 | - |
| 87510 | 2010 | Regional | 546742 | 6307689 | 0.30 | soil | 2 | med br | - | - | abnt | sub-ang to ang | peb-cob | mod | 22-Jul-10 | 80 | - |
| 87511 | 2010 | Regional | 546698 | 6307665 | 0.30 | soil | 2 | lt br | - | - | abnt | sub-rnd | peb | low | 22-Jul-10 | 80 | - |
| 87512 | 2010 | Regional | 546652 | 6307642 | 0.30 | soil | 1 | br-og | - | - | abnt | rnd-ang | grit-peb | mod | 22-Jul-10 | 90 | - |
| 87513 | 2010 | Regional | 546610 | 6307608 | 0.30 | soil | 1 | med br | - | - | abnt | sub-ang | peb | mod | 22-Jul-10 | 95 | - |
| 87514 | 2010 | Regional | 546564 | 6307588 | 0.30 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | mod | 22-Jul-10 | 100 | - |
| 87515 | 2010 | Regional | 546525 | 6307561 | 0.30 | soil | 1 | med br | - | - | abnt | sub-rnd | peb | mod | 22-Jul-10 | 75 | - |
| 87516 | 2010 | Regional | 546480 | 6307534 | 0.30 | soil | 1 | lt br-og | - | - | abnt | sub-ang | grit-peb | low | 22-Jul-10 | 90 | - |
| 87517 | 2010 | Regional | 546436 | 6307509 | 0.25 | soil | 1 | lt br | - | - | abnt | ang | grit-peb | mod | 22-Jul-10 | 80 | - |
| 87518 | 2010 | Regional | 546395 | 6307485 | 0.15 | soil | 2 | med br | - | - | abnt | ang | peb | high | 22-Jul-10 | 60 | - |
| 87519 | 2010 | Regional | 546350 | 6307460 | - | soil | 4 | gy-blk | - | - | abnt | ang | peb-cob | high | 22-Jul-10 | 50 | - |
| 87520 | 2010 | Regional | 546307 | 6307436 | 0.30 | soil | 2 | dk br | - | - | abnt | sub-rnd | peb | mod | 22-Jul-10 | 60 | - |
| 87521 | 2010 | Regional | 546266 | 6307414 | 0.30 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | mod | 22-Jul-10 | 60 | - |
| 87522 | 2010 | Regional | 546220 | 6307389 | 0.30 | soil | 1 | med br | - | - | abnt | ang | grit-peb | mod | 22-Jul-10 | 115 | - |
| 87523 | 2010 | Regional | 546740 | 6306546 | 0.35 | soil | 3 | med br | - | - | abnt | - | grit-gran | high | 22-Jul-10 | 70 | - |
| 87524 | 2010 | Regional | 546788 | 6306567 | 0.30 | soil | 2 | med br-og | - | - | abnt | sub-ang | grit-cob | mod | 22-Jul-10 | 80 | - |
| 87525 | 2010 | Regional | 546829 | 6306599 | 0.30 | soil | 3 | med br | - | - | abnt | sub-ang | grit-cob | low | 22-Jul-10 | 75 | - |
| 87526 | 2010 | Regional | 546872 | 6306622 | 0.25 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-peb | high | 22-Jul-10 | 100 | - |
| 87527 | 2010 | Regional | 546914 | 6306643 | 0.30 | soil | 2 | lt br | - | - | abnt | ang | grit-peb | mod | 22-Jul-10 | 90 | - |
| 87528 | 2010 | Regional | 547008 | 6306698 | 0.35 | soil | 2 | gy-blk | - | - | abnt | rnd | grit-cob | high | 22-Jul-10 | 80 | - |
| 87529 | 2010 | Regional | 547045 | 6306720 | 0.35 | soil | 3 | med br | - | - | abnt | ang | grit-peb | mod | 22-Jul-10 | 70 | - |
| 87530 | 2010 | Regional | 547220 | 6306816 | 0.25 | soil | 1 | lt br | - | - | abnt | sub-ang | grit-peb | high | 22-Jul-10 | 55 | - |
| 87531 | 2010 | Regional | 547264 | 6306847 | 0.30 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | mod | 22-Jul-10 | 90 | - |
| 87532 | 2010 | Regional | 547304 | 6306871 | 0.35 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | low | 22-Jul-10 | 85 | - |
| 87533 | 2010 | Regional | 547350 | 6306897 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang to sub-rnd | grit-peb | mod | 22-Jul-10 | 60 | - |
| 87534 | 2010 | Regional | 547564 | 6307021 | 0.35 | soil | 4 | lt br | - | - | abnt | - | - | high | 22-Jul-10 | 60 | - |
| 87535 | 2010 | Regional | 547651 | 6307070 | 0.20 | soil | 2 | med br | - | - | abnt | sub-ang to ang | grit-peb | high | 22-Jul-10 | 55 | - |
| 87536 | 2010 | Regional | 547694 | 6307095 | 0.30 | soil | 1 | br-og | - | - | abnt | ang | grit-peb | mod | 22-Jul-10 | 50 | - |
| 87537 | 2010 | Regional | 547737 | 6307119 | 0.30 | soil | 1 | med br-og | - | - | abnt | sub-ang | grit-peb | mod | 22-Jul-10 | 70 | - |
| 87538 | 2010 | Regional | 547780 | 6307149 | 0.30 | soil | 2 | med br-og | - | - | abnt | - | - | low | 22-Jul-10 | 100 | - |
| 87539 | 2010 | Regional | 547822 | 6307173 | 0.40 | soil | 3 | gy-blk | - | - | abnt | - | - | mod | 22-Jul-10 | 70 | - |
| 87540 | 2010 | Regional | 547862 | 6307194 | 0.25 | soil | 3 | dk br | - | - | abnt | sub-ang | grit-peb | mod | 22-Jul-10 | 65 | - |
| 87541 | 2010 | Regional | 546035 | 6303805 | 0.30 | soil | 2 | med br | - | - | abnt | sub-ang | grit-cob | high | 23-Jul-10 | 110 | - |
| 87542 | 2010 | Regional | 546081 | 6303843 | 0.30 | soil | 2 | med br-og | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 85 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87543 | 2010 | Regional | 546128 | 6303869 | 0.30 | soil | 3 | blk-gy | - | - | abnt | - | - | high | 23-Jul-10 | 70 | - |
| 87544 | 2010 | Regional | 546166 | 6303889 | 0.30 | soil | 2 | med br-blk | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 75 | - |
| 87545 | 2010 | Regional | 546208 | 6303916 | 0.25 | soil | 2 | br-og | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 75 | - |
| 87546 | 2010 | Regional | 546255 | 6303951 | 0.30 | soil | 1 | med br | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 80 | outcrop |
| 87547 | 2010 | Regional | 546297 | 6303967 | 0.30 | soil | 1 | med br | - | - | abnt | ang | grit-gran | mod | 23-Jul-10 | 100 | - |
| 87548 | 2010 | Regional | 546340 | 6303991 | 0.25 | soil | 1 | med br-og | - | - | abnt | sub-ang to ang | grit-peb | mod | 23-Jul-10 | 110 | - |
| 87549 | 2010 | Regional | 546384 | 6304016 | 0.30 | soil | 2 | gy-blk | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 85 | - |
| 87550 | 2010 | Regional | 546426 | 6304038 | 0.30 | soil | 1 | med br | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 100 | - |
| 87551 | 2010 | Regional | 546467 | 6304067 | 0.40 | soil | 4 | lt br | - | - | abnt | sub-ang | grit-peb | low | 23-Jul-10 | 75 | - |
| 87552 | 2010 | Regional | 546516 | 6304093 | 0.30 | soil | 1 | br-r | - | - | abnt | - | grit-gran | mod | 23-Jul-10 | 75 | - |
| 87553 | 2010 | Regional | 546556 | 6304116 | 0.30 | soil | 2 | lt br-gy | - | - | abnt | - | grit-gran | mod | 23-Jul-10 | 45 | - |
| 87554 | 2010 | Regional | 546597 | 6304145 | 0.30 | soil | 1 | med br | - | - | abnt | sub-ang to ang | grit-peb | low | 23-Jul-10 | 70 | - |
| 87555 | 2010 | Regional | 546640 | 6304167 | 0.20 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 95 | - |
| 87556 | 2010 | Regional | 546685 | 6304192 | 0.35 | soil | 3 | blk | - | - | abnt | - | grit | high | 23-Jul-10 | 62 | - |
| 87557 | 2010 | Regional | 546733 | 6304217 | 0.25 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | high | 23-Jul-10 | 80 | - |
| 87558 | 2010 | Regional | 546816 | 6304270 | 0.25 | soil | 1 | blk | - | - | abnt | - | grit-gran | high | 23-Jul-10 | 80 | - |
| 87559 | 2010 | Regional | 546860 | 6304297 | 0.25 | soil | 1 | med br | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 115 | - |
| 87560 | 2010 | Regional | 546900 | 6304318 | 0.30 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-cob | mod | 23-Jul-10 | 105 | - |
| 87561 | 2010 | Regional | 546946 | 6304341 | 0.10 | soil | 1 | med br-og | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 105 | - |
| 87562 | 2010 | Regional | 546984 | 6304368 | 0.25 | soil | 1 | lt br | - | - | abnt | sub-rnd | grit-peb | mod | 23-Jul-10 | 90 | - |
| 87563 | 2010 | Regional | 547031 | 6304394 | 0.30 | soil | 1 | gy-blk | - | - | abnt | ang | grit-peb | mod | 23-Jul-10 | 80 | - |
| 87564 | 2010 | Regional | 547073 | 6304416 | 0.30 | soil | 1 | med br-og | - | - | abnt | - | grit-gran | low | 23-Jul-10 | 95 | - |
| 87565 | 2010 | Regional | 547120 | 6304442 | 0.30 | soil | 2 | med br-gy | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 120 | - |
| 87566 | 2010 | Regional | 547164 | 6304467 | 0.20 | soil | 2 | br-gy-blk | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 110 | - |
| 87567 | 2010 | Regional | 547203 | 6304491 | 0.20 | soil | 1 | gy | - | - | abnt | sub-ang | grit-cob | high | 23-Jul-10 | 100 | - |
| 87568 | 2010 | Regional | 547253 | 6304520 | 0.30 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 85 | - |
| 87569 | 2010 | Regional | 547297 | 6304549 | 0.30 | soil | 2 | dk br | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 60 | - |
| 87570 | 2010 | Regional | 547341 | 6304570 | 0.30 | soil | 2 | gy | - | - | abnt | - | - | low | 23-Jul-10 | 105 | - |
| 87571 | 2010 | Regional | 547429 | 6304621 | 0.30 | soil | 2 | lt br-gy | - | - | abnt | - | grit-gran | mod | 23-Jul-10 | 70 | - |
| 87572 | 2010 | Regional | 547471 | 6304646 | 0.30 | soil | 1 | med br-og | - | - | abnt | sub-ang | grit-peb | mod | 23-Jul-10 | 80 | - |
| 87573 | 2010 | Regional | 547514 | 6304672 | 0.30 | soil | 1 | med br-gy | - | - | abnt | sub-ang | peb | low | 23-Jul-10 | 90 | - |
| 87574 | 2010 | Regional | 547556 | 6304698 | 0.30 | soil | 1 | gy | - | - | abnt | - | - | mod | 23-Jul-10 | 70 | - |
| 87575 | 2010 | Regional | 540975 | 6300871 | 0.35 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | high | 24-Jul-10 | 90 | - |
| 87576 | 2010 | Regional | 541007 | 6300894 | 0.35 | soil | 4 | dk br | - | - | abnt | sub-ang | grit-peb | mod | 24-Jul-10 | 60 | - |
| 87577 | 2010 | Regional | 541149 | 6300970 | 0.30 | soil | 1 | br-og | - | - | abnt | sub-ang | grit-peb | mod | 24-Jul-10 | 90 | - |
| 87578 | 2010 | Regional | 541188 | 6300997 | 0.35 | soil | 2 | gy | - | - | abnt | sub-ang to sub-rnd | grit-peb | mod | 24-Jul-10 | 75 | - |
| 87579 | 2010 | Regional | 541236 | 6301027 | 0.30 | soil | 1 | lt br | - | - | few | sub-ang | grit-peb | low | 24-Jul-10 | 90 | - |
| 87580 | 2010 | Regional | 541276 | 6301048 | 0.30 | soil | 1 | lt br | - | - | mod | sub-ang | grit-peb | low | 24-Jul-10 | 110 | - |
| 87581 | 2010 | Regional | 541322 | 6301073 | 0.30 | soil | 1 | gy-blk | - | - | abnt | sub-ang | grit-peb | mod | 24-Jul-10 | 80 | - |
| 87582 | 2010 | Regional | 541365 | 6301097 | 0.30 | soil | 2 | med br | - | - | few | sub-ang to ang | grit-peb | low | 24-Jul-10 | 100 | outcrop |
| 87583 | 2010 | Regional | 541423 | 6301129 | 0.30 | soil | 1 | med br | - | - | mod | sub-ang to sub-rnd | grit-peb | low | 24-Jul-10 | 80 | outcrop |
| 87584 | 2010 | Regional | 541449 | 6301149 | 0.20 | soil | 2 | med br | - | - | mod | sub-ang to sub-rnd | grit-peb | high | 24-Jul-10 | 120 | - |
| 87585 | 2010 | Regional | 541495 | 6301172 | - | soil | 2 | br-og-gy | - | - | mod | sub-ang | grit-peb | low | 24-Jul-10 | 85 | - |
| 87586 | 2010 | Regional | 541538 | 6301197 | 0.30 | soil | 1 | br-og | - | - | few | sub-ang | grit-cob | low | 24-Jul-10 | 120 | - |
| 87587 | 2010 | Regional | 541581 | 6301222 | 0.30 | soil | 1 | med br | - | - | abnt | ang | grit-peb | high | 24-Jul-10 | 85 | - |
| 87588 | 2010 | Regional | 541620 | 6301248 | 0.15 | soil | 1 | med br | - | - | abnt | sub-ang | grit-peb | high | 24-Jul-10 | 105 | - |
| 87589 | 2010 | Regional | 541666 | 6301272 | 0.30 | soil | 1 | med br | - | - | mod | sub-ang to ang | grit-peb | mod | 24-Jul-10 | 80 | - |
| 87590 | 2010 | Regional | 541757 | 6301322 | 0.30 | soil | 1 | med br | - | - | mod | sub-ang | grit-peb | few | 24-Jul-10 | 105 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|-----------|----------|-----------|-----|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87591 | 2010 | Regional | 541839 | 6301373 | 0.20 | soil | 1 | dk br-blk | - | - | - | - | grit-gran | mod | 24-Jul-10 | 40 | outcrop |
| 87592 | 2010 | Regional | 541934 | 6301429 | 0.35 | soil | 2 | med br | - | - | mod | sub-ang | grit-cob | low | 24-Jul-10 | 105 | - |
| 87593 | 2010 | Regional | 541974 | 6301454 | 0.20 | soil | 2 | br-og | - | - | abnt | ang | grit-cob | mod | 24-Jul-10 | 450 | - |
| 87594 | 2010 | Regional | 542012 | 6301474 | 0.30 | soil | 1 | lt br | - | - | none | - | - | high | 24-Jul-10 | 80 | - |
| 87595 | 2010 | Regional | 542069 | 6301501 | 0.30 | soil | 1 | med br | - | - | mod | sub-ang | grit-peb | mod | 24-Jul-10 | -1 | - |
| 87596 | 2010 | Regional | 542111 | 6301543 | 0.30 | soil | 1 | med br | - | - | - | - | grit-gran | mod | 24-Jul-10 | 90 | - |
| 87597 | 2010 | Regional | 542155 | 6301569 | 0.30 | soil | 1 | br-og | - | - | mod | ang | grit-peb | mod | 24-Jul-10 | 100 | - |
| 87598 | 2010 | Regional | 542200 | 6301593 | 0.30 | soil | 1 | gy | - | - | few | sub-rnd | grit-peb | few | 24-Jul-10 | 110 | - |
| 87599 | 2010 | Regional | 542241 | 6301621 | 0.30 | soil | 1 | br-og | - | - | few | sub-ang | grit-peb | mod | 24-Jul-10 | 95 | - |
| 87600 | 2010 | Regional | 542284 | 6301646 | 0.30 | soil | 1 | br-gy | - | - | mod | sub-ang | grit-peb | high | 24-Jul-10 | 110 | - |
| 87701 | 2010 | Regional | 541179 | 6313641 | 0.30 | soil | 2 | br-og | - | - | mod | ang | grit-peb | low | 31-Jul-10 | 105 | - |
| 87702 | 2010 | Regional | 541138 | 6313619 | 0.30 | soil | - | med br | - | - | mod | sub-ang to sub-rnd | grit-peb | mod | 31-Jul-10 | 80 | - |
| 87703 | 2010 | Regional | 541089 | 6313596 | 0.35 | soil | 2 | med br | - | - | mod | sub-ang | grit-cob | low | 31-Jul-10 | 75 | - |
| 87704 | 2010 | Regional | 541045 | 6313570 | 0.40 | soil | 2 | med br | - | - | mod | ang to sub-rnd | grit-cob | mod | 31-Jul-10 | 80 | - |
| 87705 | 2010 | Regional | 541344 | 6312656 | 0.35 | soil | 4 | gy | - | - | none | - | - | low | 31-Jul-10 | 70 | - |
| 87706 | 2010 | Regional | 541392 | 6312683 | 0.45 | soil | 3 | med br | - | - | few | sub-ang | grit-peb | high | 31-Jul-10 | 80 | - |
| 87707 | 2010 | Regional | 541475 | 6312733 | 0.30 | soil | 3 | gy | - | - | few | sub-ang | grit-peb | high | 31-Jul-10 | 80 | - |
| 87708 | 2010 | Regional | 541520 | 6312758 | - | soil | 2 | gy | - | - | - | - | grit-gran | low | 31-Jul-10 | 105 | - |
| 87709 | 2010 | Regional | 541564 | 6312780 | 0.30 | soil | 1 | med br-og | - | - | mod | sub-ang | grit-cob | low | 31-Jul-10 | 100 | - |
| 87710 | 2010 | Regional | 541609 | 6312811 | 0.30 | soil | 2 | med br | - | - | mod | ang-rnd | grit-peb | mod | 31-Jul-10 | 105 | - |
| 87711 | 2010 | Regional | 541651 | 6312834 | 0.30 | soil | 1 | br-og | - | - | few | sub-ang | grit-peb | mod | 31-Jul-10 | 100 | - |
| 87712 | 2010 | Regional | 541694 | 6312858 | 0.30 | soil | 2 | dk br | - | - | mod | sub-ang | grit-peb | high | 31-Jul-10 | 90 | - |
| 87713 | 2010 | Regional | 541739 | 6312881 | 0.30 | soil | 1 | br-og | - | - | mod | sub-ang | grit-peb | mod | 31-Jul-10 | 60 | - |
| 87714 | 2010 | Regional | 541778 | 6312906 | 0.30 | soil | 1 | br-og | - | - | mod | sub-ang to sub-rnd | grit-peb | low | 31-Jul-10 | 65 | - |
| 87715 | 2010 | Regional | 541822 | 6312931 | 0.30 | soil | 1 | dk br | - | - | mod | sub-ang | grit-cob | low | 31-Jul-10 | 80 | - |
| 87716 | 2010 | Regional | 541868 | 6312958 | 0.40 | soil | 3 | gy | - | - | - | - | grit-gran | mod | 31-Jul-10 | 50 | - |
| 87717 | 2010 | Regional | 542045 | 6313065 | 0.35 | soil | 1 | br-og | - | - | few | sub-ang | grit-peb | mod | 31-Jul-10 | 80 | - |
| 87718 | 2010 | Regional | 542087 | 6313088 | 0.30 | soil | 2 | dk br | - | - | few | sub-ang | - | high | 31-Jul-10 | -1 | - |
| 87719 | 2010 | Regional | 542130 | 6313115 | 0.50 | soil | 5 | dk br | - | - | - | - | grit | high | 31-Jul-10 | 30 | - |
| 87720 | 2010 | Regional | 542302 | 6313214 | 0.20 | soil | 3 | gy-blk | - | - | abnt | ang to sub-ang | grit-peb | mod | 31-Jul-10 | 40 | - |
| 87721 | 2010 | Regional | 542733 | 6312316 | 0.30 | soil | 4 | gy-gr-br | - | - | none | - | - | low | 3-Aug-10 | 60 | - |
| 87722 | 2010 | Regional | 542688 | 6312293 | 0.40 | soil | 4 | pk-gy | - | - | - | ang | grit-peb | high | 3-Aug-10 | 75 | - |
| 87723 | 2010 | Regional | 542645 | 6312253 | - | soil | 3 | dk gy | - | - | - | sub-ang | grit-cob | mod | 3-Aug-10 | 90 | - |
| 87724 | 2010 | Regional | 542601 | 6312242 | 0.35 | soil | - | dk br | - | - | - | - | grit | high | 3-Aug-10 | 100 | - |
| 87725 | 2010 | Regional | 542517 | 6312186 | 0.30 | soil | 3 | med gy-br | - | - | - | ang | grit-peb | high | 3-Aug-10 | 50 | - |
| 87726 | 2010 | Regional | 542465 | 6312161 | - | soil | 3 | med to dk br | - | - | - | sub-ang to sub-rnd | grit-peb | high | 3-Aug-10 | 75 | - |
| 87727 | 2010 | Regional | 542433 | 6312137 | 0.30 | soil | 3 | med br | - | - | - | ang to sub-ang | peb | mod | 3-Aug-10 | 60 | - |
| 87728 | 2010 | Regional | 542246 | 6312042 | 0.20 | soil | 4 | blk-br | - | - | none | - | - | high | 3-Aug-10 | 85 | - |
| 87729 | 2010 | Regional | 542211 | 6312016 | 0.25 | soil | 2 | med og-br | - | - | - | - | grit-gran | high | 3-Aug-10 | 70 | - |
| 87730 | 2010 | Regional | 542174 | 6311986 | 0.20 | soil | 3 | blk-br | - | - | - | - | grit-gran | high | 3-Aug-10 | 65 | - |
| 87731 | 2010 | Regional | 541940 | 6311858 | 0.40 | soil | 2 | blk-br | - | - | - | ang | peb-cob | mod | 3-Aug-10 | 120 | - |
| 87732 | 2010 | Regional | 541889 | 6311840 | 0.60 | soil | 2 | r-br | - | - | none | ang | peb-gran | high | 3-Aug-10 | 400 | - |
| 87733 | 2010 | Regional | 541840 | 6311816 | 0.45 | soil | 2 | gy-br | - | - | - | - | grit-gran | mod | 3-Aug-10 | 300 | - |
| 87734 | 2010 | Regional | 541792 | 6311772 | 0.40 | soil | 4 | gy-br | - | - | none | - | - | mod | 3-Aug-10 | 125 | - |
| 87735 | 2010 | Regional | 541734 | 6311737 | 0.30 | soil | 3 | lt gy-br | - | - | - | - | gran | low | 3-Aug-10 | 120 | - |
| 87736 | 2010 | Regional | 541687 | 6311701 | 0.30 | soil | 4 | dk gy-br | - | - | - | - | grit-gran | high | 3-Aug-10 | 180 | - |
| 87737 | 2010 | Regional | 541643 | 6311674 | 0.35 | soil | 4 | dk gy-br | - | - | - | - | grit-gran | high | 3-Aug-10 | 133 | - |
| 87738 | 2010 | Regional | 541599 | 6311653 | 0.35 | soil | 3 | dk gy-br | - | - | - | - | grit-gran | high | 3-Aug-10 | 155 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------------------|------|---------|-----------------------|--------------------|---------------|----------|----------|------|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87739 | 2010 | Regional | 541518 | 6311607 | 0.30 | soil | 3 | blk-gy-br | - | - | none | - | - | low | 3-Aug-10 | 180 | - |
| 87740 | 2010 | Regional | 541340 | 6311500 | 0.20 | soil | 2 | gy-gr | - | - | - | ang | gran-peb | high | 3-Aug-10 | 150 | - |
| 87741 | 2010 | Regional | 541295 | 6311475 | 0.30 | soil | 2 | med to dk br | - | - | - | sub-rnd to ang | grit-cob | high | 3-Aug-10 | 170 | - |
| 87742 | 2010 | Regional | 538758 | 6308963 | 0.20 | soil | 2 | blk to med br to r-br | - | - | - | rnd | grit-peb | high | 4-Aug-10 | 110 | - |
| 87743 | 2010 | Regional | 538640 | 6308796 | 0.30 | soil | 2 | dk br | - | - | - | sub-rnd | gran-peb | high | 4-Aug-10 | 130 | - |
| 87744 | 2010 | Regional | 538596 | 6308774 | 0.25 | soil | 2 | bg-gy | - | - | none | - | - | mod | 4-Aug-10 | 170 | - |
| 87745 | 2010 | Regional | 538554 | 6308744 | 0.45 | soil | 2 | lt og-br | - | - | - | rnd | peb-cob | mod | 4-Aug-10 | 105 | - |
| 87746 | 2010 | Regional | 538510 | 6308723 | 0.25 | soil | 2 | br-gy | - | - | - | - | grit-gran | mod | 4-Aug-10 | 120 | - |
| 87747 | 2010 | Regional | 538419 | 6308668 | 0.40 | soil | 2 | gy and lt og-br | - | - | - | rnd | grit-peb | high | 4-Aug-10 | 100 | - |
| 87748 | 2010 | Regional | 538373 | 6308644 | - | soil | 2 | blk-br | - | - | - | sub-ang | peb | high | 4-Aug-10 | 110 | - |
| 87749 | 2010 | Regional | 538330 | 6308611 | 0.30 | soil | 2 | blk-br to med br | - | - | - | ang | peb | high | 4-Aug-10 | 100 | - |
| 87750 | 2010 | Regional | 538241 | 6308568 | 0.40 | soil | 2 | og-gy-br | - | - | - | rnd | gran-peb | high | 4-Aug-10 | 110 | - |
| 87751 | 2010 | Regional | 538201 | 6308545 | 0.45 | soil | 3 | dk gy-br | - | - | - | rnd | gran-cob | high | 4-Aug-10 | 95 | - |
| 87752 | 2010 | Regional | 538154 | 6308518 | 0.50 | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | high | 4-Aug-10 | 95 | - |
| 87753 | 2010 | Regional | 538117 | 6308495 | 0.40 | soil | 3 | dk ol-br | - | - | - | sub-ang to rnd | gran-peb | high | 4-Aug-10 | 85 | - |
| 87754 | 2010 | Regional | 538074 | 6308470 | 0.20-0.45 | soil | 3 | blk-br | - | - | - | flat-ang | gran-peb | high | 4-Aug-10 | 85 | contains 5.6cm sub-rnd cob |
| 87756 | 2010 | Regional | 537984 | 6308415 | - | soil | 2 | lt og-br | - | - | - | flat to sub-ang | gran-peb | mod | 4-Aug-10 | 110 | - |
| 87757 | 2010 | Regional | 537856 | 6308342 | 0.35 | soil | 2 | med br | - | - | - | ang | grit-gran | high | 4-Aug-10 | 115 | - |
| 87758 | 2010 | Regional | 537801 | 6308318 | 0.60 | soil | 2 | med r-br | - | - | - | sub-rnd to sub-ang | gran-peb-cob | high | 4-Aug-10 | 3100 | gran to sub-rnd peb, sub-ang cob, sub-rnd bldr. |
| 87759 | 2010 | Regional | 537780 | 6308299 | - | soil | 3 | dk br | - | - | - | - | grit-gran | high | 4-Aug-10 | 109 | - |
| 87760 | 2010 | Regional | 537731 | 6308270 | 0.20 | soil | 3 | med br | - | - | - | - | grit-gran | high | 4-Aug-10 | 800 | - |
| 87761 | 2010 | Regional | 537690 | 6308240 | 0.30 | soil | 3 | dk br | - | - | - | rnd | grit-cob | high | 4-Aug-10 | 90 | - |
| 87762 | 2010 | Regional | 537643 | 6308224 | 0.30 | soil | 3 | blk-gy-br | - | - | - | flat to sub-rnd | grit-peb-cob | mod | 4-Aug-10 | 110 | - |
| 87763 | 2010 | Regional | 537557 | 6308166 | 0.45 | soil | 4 | dk gy-br | - | - | - | - | grit-gran | mod | 4-Aug-10 | 100 | - |
| 87766 | 2010 | Regional | 537422 | 6308089 | 0.40 | soil | 2 | lt gy-og-br | - | - | - | sub-rnd | gran-peb-cob | mod | 4-Aug-10 | -1 | - |
| 87767 | 2010 | Regional | 537382 | 6308069 | 0.30 | soil | 2 | og-br | - | - | - | ang | gran-peb | mod | 4-Aug-10 | 120 | - |
| 87768 | 2010 | Regional | 537339 | 6308042 | 0.30 | soil | 3 | lt gy-br | - | - | - | ang | peb | low | 4-Aug-10 | 105 | - |
| 87769 | 2010 | Regional | 537295 | 6308008 | 0.40 | soil | 3 | blk-gy-br | - | - | - | sub-rnd | grit-peb | high | 4-Aug-10 | 90 | - |
| 87770 | 2010 | Regional | 537258 | 6307985 | 0.45 | soil | 3 | blk-gy | - | - | - | sub-ang | gran-peb | mod | 4-Aug-10 | 105 | - |
| 87771 | 2010 | Regional | 537198 | 6307948 | 0.30 | soil | 4 | blk | - | - | - | rnd | gran-peb | high | 4-Aug-10 | 70 | - |
| 87772 | 2010 | Regional | 537154 | 6307922 | - | soil | 5 | lt gy | - | - | - | - | grit-gran | mod | 4-Aug-10 | 100 | sample taken from water hole |
| 87773 | 2010 | Regional | 537108 | 6307891 | 0.30 | soil | 2 | med br | - | - | - | sub-rnd to rnd | peb-cob | high | 4-Aug-10 | 100 | - |
| 87774 | 2010 | Regional | 537066 | 6307870 | 0.30 | soil | 3 | blk | - | - | - | ang | grit-peb | high | 4-Aug-10 | 70 | - |
| 87775 | 2010 | Regional | 536933 | 6307792 | 0.20 | soil | 3 | lt gy-br | - | - | - | rnd | gran-peb | high | 4-Aug-10 | 88 | - |
| 87776 | 2010 | Regional | 536895 | 6307769 | - | soil | 3 | bl | - | - | - | - | gran | high | 4-Aug-10 | 80 | - |
| 87777 | 2010 | Regional | 536851 | 6307745 | 0.20 | soil | 2 | med br | - | - | - | sub-ang | gran-peb | low | 5-Aug-10 | 100 | - |
| 87778 | 2010 | Regional | 536805 | 6307720 | 0.35 | soil | 2 | og-br to gy-br | - | - | - | - | gran-peb | low | 5-Aug-10 | 100 | - |
| 87779 | 2010 | Regional | 536757 | 6307694 | 0.30 | soil | 2 | og-br to gy-br | - | - | - | ang | gran-cob | mod | 5-Aug-10 | 100 | - |
| 87780 | 2010 | Regional | 536715 | 6307673 | 0.70 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | mod | 5-Aug-10 | 100 | - |
| 87781 | 2010 | Regional | 536676 | 6307643 | 0.40 | soil | 3 | og-br to gy-br | - | - | - | ang | gran-peb | high | 5-Aug-10 | 250 | - |
| 87782 | 2010 | Regional | 536634 | 6307618 | 0.10 | soil | 3 | med gy-br | - | - | - | ang | gran-peb | high | 5-Aug-10 | 70 | - |
| 87783 | 2010 | Regional | 536456 | 6307511 | 0.25 | soil | 2 | og-br | - | - | - | sub-rnd to sub-ang | gran-cob | mod | 5-Aug-10 | 115 | - |
| 87784 | 2010 | Regional | 536401 | 6307489 | 0.25 | soil | 3 | dk br | - | - | - | ang to sub-rnd | grit-gran-cob | high | 5-Aug-10 | 160 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------------|------|---------|-----------------------|---------------------------|---------------|----------|-----------|-----|-----------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87785 | 2010 | Regional | 536365 | 6307456 | 0.65 | soil | 3 | blk-br | - | - | - | ang | gran-peb | high | 5-Aug-10 | 120 | - |
| 87786 | 2010 | Regional | 536325 | 6307427 | 0.45 | soil | 2 | med br | - | - | - | ang to sub-ang to sub-rnd | gran-peb-cot | low | 5-Aug-10 | 100 | - |
| 87787 | 2010 | Regional | 536260 | 6307410 | 0.40 | soil | 2 | gy-br | - | - | - | sub-ang | grit-gran-pet | low | 5-Aug-10 | 80 | - |
| 87788 | 2010 | Regional | 536234 | 6307383 | 0.35 | soil | 3 | gy-br | - | - | - | ang to rnd | gran-peb-cot | mod | 5-Aug-10 | 80 | - |
| 87789 | 2010 | Regional | 536186 | 6307356 | 0.30 | soil | 2 | og-br | - | - | - | sub-ang | gran-peb | high | 5-Aug-10 | 100 | - |
| 87790 | 2010 | Regional | 536155 | 6307313 | 0.50 | soil | 4 | blk-gy-br | - | - | - | rnd | gran-peb | mod | 5-Aug-10 | 100 | - |
| 87791 | 2010 | Regional | 536566 | 6306420 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang | gran-peb | high | 5-Aug-10 | 100 | - |
| 87792 | 2010 | Regional | 536609 | 6306449 | 0.35 | soil | 2 | gy-br | - | - | - | - | gran | low | 5-Aug-10 | 90 | - |
| 87793 | 2010 | Regional | 536657 | 6306475 | 0.30 | soil | 2 | gy-br to og-br | - | - | - | sub-rnd to sub-ang | gran-peb | high | 5-Aug-10 | 90 | - |
| 87794 | 2010 | Regional | 536688 | 6306494 | 0.50 | soil | 3 | blk-gy | - | - | - | sub-rnd | gran-peb | high | 5-Aug-10 | 150 | - |
| 87795 | 2010 | Regional | 536732 | 6306525 | - | soil | 2 | gy-br | - | - | - | ang to sub-ang | gran-peb | high | 5-Aug-10 | 90 | - |
| 87796 | 2010 | Regional | 536780 | 6306546 | 0.20 | soil | 2 | gy-og-br | - | - | - | sub-ang to sub-rnd | gran-peb-cot | mod | 5-Aug-10 | 100 | - |
| 87797 | 2010 | Regional | 536828 | 6306584 | 0.20 | soil | 2 | gy | - | - | - | - | gran | high | 5-Aug-10 | 110 | - |
| 87798 | 2010 | Regional | 536865 | 6306610 | 0.30 | soil | 2 | med og-gy | - | - | - | sub-rnd | peb-gran | mod | 5-Aug-10 | 90 | - |
| 87799 | 2010 | Regional | 536906 | 6306634 | 0.30 | soil | 3 | med gy-br | - | - | - | ang | gran-peb | mod | 5-Aug-10 | 90 | - |
| 87800 | 2010 | Regional | 536996 | 6306682 | 0.30 | soil | 2 | gy-br | - | - | - | rnd | grit-gran-pet | high | 5-Aug-10 | 90 | - |
| 87801 | 2010 | Regional | 544099 | 6309633 | 0.25 | soil | 2 | gy-br | - | - | - | ang | gran-peb | mod | 18-Jul-10 | 85 | - |
| 87802 | 2010 | Regional | 544141 | 6309656 | 0.40 | soil | 3 | med to dk br w/ og | - | - | - | - | gran | mod | 18-Jul-10 | 104 | - |
| 87803 | 2010 | Regional | 544190 | 6309691 | 0.40 | soil | 2 | lt br | - | - | - | - | gran-peb | low | 18-Jul-10 | 141 | - |
| 87804 | 2010 | Regional | 544228 | 6309710 | 0.30 | soil | 2 | med br-blk | - | - | - | - | gran | mod | 18-Jul-10 | 120 | - |
| 87805 | 2010 | Regional | 544278 | 6309738 | 0.35 | soil | 2 | gy-br | - | - | - | - | gran | - | 18-Jul-10 | 84 | - |
| 87806 | 2010 | Regional | 544313 | 6309758 | 0.50 | soil | 5 | dk br | - | - | - | - | - | high | 18-Jul-10 | 53 | - |
| 87807 | 2010 | Regional | 544444 | 6309836 | 0.30 | soil | 2 | gy-br | - | - | abnt | ang to sub-ang | gran-cob | - | 18-Jul-10 | 65 | Outcrop in sight |
| 87808 | 2010 | Regional | 544486 | 6309856 | 0.20 | soil | 4 | lt br | - | - | mod | sub-ang | gran-cob | - | 18-Jul-10 | 78 | - |
| 87809 | 2010 | Regional | 544571 | 6309908 | 0.30 | soil | 3 | br | - | - | - | sub-ang | gran-cob | - | 18-Jul-10 | 54 | - |
| 87810 | 2010 | Regional | 544658 | 6309956 | 0.30 | soil | 2 | lt gy-br | clay | - | - | sub-rnd | gran-peb | - | 18-Jul-10 | 102 | dry clay |
| 87811 | 2010 | Regional | 544698 | 6309989 | 0.20 | soil | - | lt gy-br | clay | - | - | ang to sub-ang | gran-peb/cot | - | 18-Jul-10 | 94 | - |
| 87812 | 2010 | Regional | 544740 | 6310009 | 0.20 | soil | 3 | lt br | - | - | - | sub-rnd to sub-ang | gran-cob | - | 18-Jul-10 | 69 | - |
| 87813 | 2010 | Regional | 544828 | 6310058 | 0.30 | soil | 2 | lt br-og | - | - | - | ang | gran-peb | - | 18-Jul-10 | 70 | - |
| 87814 | 2010 | Regional | 544872 | 6310081 | 0.20 | soil | 2 | lt br to og-br | - | - | - | - | gran | - | 18-Jul-10 | 92 | - |
| 87815 | 2010 | Regional | 544914 | 6310107 | 0.30 | soil | 3 | gy-br | - | - | - | ang | gran-peb | - | 18-Jul-10 | 75 | - |
| 87816 | 2010 | Regional | 544953 | 6310137 | 0.40 | soil | 2 | br | - | - | - | sub-ang to sub-rnd | gran-peb | - | 18-Jul-10 | 77 | - |
| 87817 | 2010 | Regional | 544999 | 6310156 | 0.30 | soil | 3 | gy-br | - | - | - | ang | gran-peb | - | 18-Jul-10 | 65 | - |
| 87818 | 2010 | Regional | 545045 | 6310186 | 0.20 | soil | 3 | gy-br | - | - | - | - | gran | - | 18-Jul-10 | 73 | - |
| 87819 | 2010 | Regional | 545086 | 6310210 | - | soil | 2 | gy-br | - | - | none | - | - | - | 18-Jul-10 | 100 | clay is gy |
| 87820 | 2010 | Regional | 545129 | 6310237 | 0.20 | soil | 2 | br-og-gy | - | - | - | - | gran | - | 18-Jul-10 | 77 | - |
| 87821 | 2010 | Regional | 545171 | 6310260 | 0.20 | soil | 2 | lt br | - | - | - | ang | - | - | 18-Jul-10 | 90 | - |
| 87822 | 2010 | Regional | 545222 | 6310275 | 0.20 | soil | 3 | gy-br | - | - | - | - | gran | - | 18-Jul-10 | 70 | - |
| 87823 | 2010 | Regional | 545269 | 6310301 | 0.40 | soil | 5 | gy | clay | - | none | - | - | high | 18-Jul-10 | 61 | - |
| 87824 | 2010 | Regional | 545308 | 6310329 | 0.30 | soil | 3 | br | - | - | - | sub-ang to sub-rnd | gran-peb | few | 18-Jul-10 | 77 | - |
| 87825 | 2010 | Regional | 545353 | 6310347 | 0.30 | soil | 2 | gy | clay | - | none | - | - | little | 18-Jul-10 | 90 | - |
| 87826 | 2010 | Regional | 545399 | 6310367 | 0.20 | soil | 1 | lt br | - | - | - | - | gran | little | 18-Jul-10 | 80 | - |
| 87827 | 2010 | Regional | 545441 | 6310398 | 0.30 | soil | 2 | gy-br | - | - | none | - | - | mod | 18-Jul-10 | 73 | - |
| 87828 | 2010 | Regional | 545489 | 6310416 | 0.30 | soil | 2 | dk br | - | - | - | sub-rnd | gran-peb | little | 18-Jul-10 | 60 | - |
| 87829 | 2010 | Regional | 546105 | 6309643 | 0.30 | soil | 4 | gy | clay | - | none | - | - | mod | 18-Jul-10 | 65 | clay is gr, 1 pebble is rnd |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|--------------|----------|-----------|------|----------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87830 | 2010 | Regional | 546064 | 6309620 | 0.20 | soil | 3 | dk gy-br | - | - | - | - | gran | little | 18-Jul-10 | 69 | - |
| 87831 | 2010 | Regional | 546022 | 6309593 | 0.20 | soil | 2 | gy-br | - | - | - | ang to sub-ang | gran-peb | little | 18-Jul-10 | 64 | - |
| 87832 | 2010 | Regional | 545977 | 6309571 | 0.30 | soil | 2 | br | - | - | - | - | gran | little | 18-Jul-10 | 73 | - |
| 87833 | 2010 | Regional | 545939 | 6309545 | 0.15 | soil | 2 | br | - | - | - | ang | gran-peb | little | 18-Jul-10 | 70 | - |
| 87834 | 2010 | Regional | 545889 | 6309518 | - | soil | 3 | dk br | - | - | - | ang | gran-peb | mod | 18-Jul-10 | 52 | - |
| 87835 | 2010 | Regional | 545677 | 6309397 | 0.20 | soil | 5 | dk br | - | - | none | - | - | high | 18-Jul-10 | 36 | - |
| 87836 | 2010 | Regional | 545630 | 6309370 | 0.20 | soil | 2 | br | - | - | - | - | gran | mod | 18-Jul-10 | 55 | - |
| 87837 | 2010 | Regional | 545587 | 6309346 | 0.30 | soil | 4 | med br-og | - | - | abnt | ang | gran-peb | mod | 18-Jul-10 | 63 | - |
| 87838 | 2010 | Regional | 545545 | 6309316 | 0.20 | soil | 2 | dk br | - | - | - | - | gran | high | 18-Jul-10 | 52 | - |
| 87839 | 2010 | Regional | 545503 | 6309292 | 0.30 | soil | 3 | dk br-blk | - | - | - | - | gran | high | 18-Jul-10 | 53 | - |
| 87840 | 2010 | Regional | 545459 | 6309270 | 0.30 | soil | 2 | dk br | - | - | - | ang | gran-peb | high | 18-Jul-10 | 64 | - |
| 87841 | 2010 | Regional | 545416 | 6309248 | - | soil | 2 | med br | - | - | - | ang | gran-cob | mod | 18-Jul-10 | 79 | - |
| 87842 | 2010 | Regional | 545369 | 6309218 | 0.20 | soil | 2 | lt br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 18-Jul-10 | 69 | - |
| 87843 | 2010 | Regional | 545328 | 6309192 | 0.30 | soil | 2 | br-og | - | - | mod | sub-ang | peb | mod | 19-Jul-10 | 100 | - |
| 87844 | 2010 | Regional | 545286 | 6309169 | 0.25 | soil | 2 | med to dk br | - | - | abnt | sub-ang | gran-pebbble | mod | 19-Jul-10 | 60 | - |
| 87845 | 2010 | Regional | 545243 | 6309145 | 0.30 | soil | 1 | med br | - | - | mod | sub-ang | gran-peb | low | 19-Jul-10 | 75 | - |
| 87846 | 2010 | Regional | 545155 | 6309094 | 0.30 | soil | 2 | dk br | - | - | abnt | ang | gran-peb | low | 19-Jul-10 | 90 | - |
| 87847 | 2010 | Regional | 545112 | 6309069 | 0.30 | soil | 2 | med br | - | - | few | ang | peb | low | 19-Jul-10 | 100 | - |
| 87848 | 2010 | Regional | 545071 | 6309043 | 0.30 | soil | 2 | med br-gy | - | - | few | sub-ang | gran-peb | low | 19-Jul-10 | 115 | - |
| 87849 | 2010 | Regional | 544937 | 6308970 | 0.30 | soil | 2 | med br | - | - | mod | sub-ang | gran-peb | low | 19-Jul-10 | 105 | - |
| 87850 | 2010 | Regional | 544896 | 6308940 | - | soil | 2 | med br-og | - | - | mod | ang | gran-peb | low | 19-Jul-10 | 90 | - |
| 87851 | 2010 | Regional | 544850 | 6308918 | 0.30 | soil | 2 | dk br | - | - | mod | ang | gran-peb | mod | 19-Jul-10 | 90 | - |
| 87852 | 2010 | Regional | 544740 | 6308946 | 0.40 | soil | 1 | dk br | - | - | abnt | ang | peb-cob | low | 19-Jul-10 | 300 | - |
| 87853 | 2010 | Regional | 544593 | 6308770 | 0.30 | soil | 2 | lt br | - | - | - | - | gran | low | 19-Jul-10 | 170 | - |
| 87854 | 2010 | Regional | 544545 | 6308741 | 0.30 | soil | 3 | dk br-blk | - | - | none | - | - | mod | 19-Jul-10 | 105 | - |
| 87855 | 2010 | Regional | 544503 | 6308717 | 0.30 | soil | 2 | gy-blk | - | - | none | - | - | high | 19-Jul-10 | 105 | - |
| 87856 | 2010 | Regional | 544418 | 6308663 | 0.40 | soil | 4 | blk-br | - | - | abnt | sub-ang | gran-peb | low | 19-Jul-10 | 90 | - |
| 87857 | 2010 | Regional | 545390 | 6308079 | - | soil | 3 | lt br | - | - | mod | sub-ang | peb | low | 19-Jul-10 | 100 | - |
| 87858 | 2010 | Regional | 545437 | 6308103 | 0.50 | soil | 3 | dk br | - | - | - | - | grit | mod | 19-Jul-10 | 85 | - |
| 87859 | 2010 | Regional | 545481 | 6308130 | 0.30 | soil | 3 | br-gy-blk | - | - | mod | sub-ang | grit-peb | mod | 19-Jul-10 | 110 | - |
| 87860 | 2010 | Regional | 545512 | 6308143 | 0.60 | soil | 2 | dk br | - | - | mod | sub-ang | grit-cob | low | 19-Jul-10 | 1000 | - |
| 87861 | 2010 | Regional | 545566 | 6308176 | 0.30 | soil | 2 | br-og | - | - | few | sub-ang | peb-cob | mod | 19-Jul-10 | 215 | - |
| 87862 | 2010 | Regional | 545608 | 6308196 | 0.25 | soil | 2 | gy-blk | - | - | abnt | ang | grit-peb | high | 19-Jul-10 | 180 | - |
| 87863 | 2010 | Regional | 545651 | 6308225 | 0.40 | soil | 2 | med br-og | - | - | mod | sub-ang | grit-cob | low | 19-Jul-10 | 550 | - |
| 87864 | 2010 | Regional | 545696 | 6308253 | 0.30 | soil | 4 | gy-blk | - | - | mod | ang | grit-cob | high | 19-Jul-10 | 100 | - |
| 87865 | 2010 | Regional | 545826 | 6308327 | 0.30 | soil | 1 | med br-og | - | - | mod | sub-ang | peb | low | 20-Jul-10 | 110 | - |
| 87866 | 2010 | Regional | 545870 | 6308353 | 0.20 | soil | 1 | med br-og | - | - | mod | sub-ang | peb-cob | mod | 20-Jul-10 | 120 | - |
| 87867 | 2010 | Regional | 545914 | 6308379 | 0.20 | soil | 2 | gy-br | - | - | mod | sub-ang to ang | grit-peb | mod | 20-Jul-10 | 120 | - |
| 87868 | 2010 | Regional | 545958 | 6308403 | 0.30 | soil | 2 | med br | - | - | few | sub-ang | grit-peb | mod | 20-Jul-10 | 80 | - |
| 87869 | 2010 | Regional | 546000 | 6308429 | 0.20 | soil | - | lt br | - | - | few | ang | grit-peb | low | 20-Jul-10 | 80 | - |
| 87870 | 2010 | Regional | 546045 | 6308452 | 0.30 | soil | 2 | med br-og | - | - | - | - | grit-gran | low | 20-Jul-10 | 90 | - |
| 87871 | 2010 | Regional | 546087 | 6308477 | 0.20 | soil | 1 | med br-og | - | - | abnt | sub-ang to ang | grit-peb | low | 20-Jul-10 | 90 | - |
| 87872 | 2010 | Regional | 546133 | 6308502 | 0.30 | soil | 1 | med br | - | - | few | sub-ang | grit-peb | mod | 20-Jul-10 | 70 | - |
| 87873 | 2010 | Regional | 546177 | 6308526 | - | soil | 2 | dk br | - | - | few | sub-ang | grit-peb | high | 20-Jul-10 | 70 | - |
| 87874 | 2010 | Regional | 546218 | 6308553 | 0.25 | soil | 2 | dk br | - | - | none | - | - | high | 20-Jul-10 | 40 | - |
| 87875 | 2010 | Regional | 546262 | 6308578 | 0.25 | soil | 2 | med br | - | - | abnt | ang | grit-peb | low | 20-Jul-10 | 60 | - |
| 87876 | 2010 | Regional | 546306 | 6308603 | - | soil | 4 | med gy-br | - | - | few | sub-ang to sub-rnd | grit-peb | high | 20-Jul-10 | 60 | - |
| 87877 | 2010 | Regional | 546347 | 6308628 | 0.25 | soil | 2 | med br | - | - | mod | ang | grit-peb | mod | 20-Jul-10 | 70 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-------------------|------|---------|-----------------------|----------------------------|--------------|----------|-----------|-----|----------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87878 | 2010 | Regional | 546391 | 6308654 | 0.30 | soil | 2 | lt br | - | - | few | sub-rnd | grit-peb | low | 20-Jul-10 | 100 | - |
| 87879 | 2010 | Regional | 546432 | 6308676 | 0.30 | soil | 1 | lt br | - | - | mod | ang | grit-cob | low | 20-Jul-10 | 100 | - |
| 87880 | 2010 | Regional | 546475 | 6308701 | 0.30 | soil | 2 | lt br-og | - | - | mod | sub-ang | grit-peb | mod | 20-Jul-10 | 75 | - |
| 87881 | 2010 | Regional | 546520 | 6308730 | 0.25 | soil | 2 | lt br | - | - | few | sub-ang | grit-peb | low | 20-Jul-10 | 70 | - |
| 87882 | 2010 | Regional | 546563 | 6308753 | 0.30 | soil | 1 | med br-og | - | - | few | ang | grit-peb | low | 20-Jul-10 | 75 | - |
| 87883 | 2010 | Regional | 546608 | 6308778 | 0.25 | soil | 2 | med br | - | - | few | sub-ang | grit-peb | low | 20-Jul-10 | 70 | - |
| 87884 | 2010 | Regional | 546649 | 6308803 | 0.30 | soil | 3 | lt br-gy | - | - | few | sub-rnd to sub-ang | grit-peb | low | 20-Jul-10 | 90 | - |
| 87885 | 2010 | Regional | 546694 | 6308830 | 0.25 | soil | 3 | gy | - | - | none | - | - | mod | 20-Jul-10 | 70 | - |
| 87886 | 2010 | Regional | 546738 | 6308853 | 0.30 | soil | 2 | med br | - | - | mod | rnd | grit-peb | low | 20-Jul-10 | 70 | - |
| 87887 | 2010 | Regional | 546780 | 6308878 | 0.30 | soil | 2 | med br | - | - | mod | sub-ang to sub-rnd | grit-peb | mod | 20-Jul-10 | 90 | - |
| 87888 | 2010 | Regional | 546825 | 6308904 | 0.30 | soil | 1 | med br | - | - | mod | sub-rnd | grit-peb | low | 20-Jul-10 | 100 | - |
| 87889 | 2010 | Regional | 546866 | 6308928 | 0.30 | soil | 2 | med br | - | - | none | - | - | low | 20-Jul-10 | 95 | - |
| 87890 | 2010 | Regional | 546910 | 6308953 | 0.30 | soil | 4 | lt br | - | - | - | - | grit-gran | low | 20-Jul-10 | 65 | - |
| 87891 | 2010 | Regional | 547605 | 6308186 | 0.35 | soil | 4 | gy | - | - | none | - | - | high | 20-Jul-10 | 65 | - |
| 87892 | 2010 | Regional | 547524 | 6308138 | 0.30 | soil | 4 | dk br | - | - | none | - | - | high | 20-Jul-10 | 80 | - |
| 87893 | 2010 | Regional | 547475 | 6308111 | 0.30 | soil | 2 | med br | - | - | mod | sub-ang | grit-peb | low | 20-Jul-10 | 75 | - |
| 87894 | 2010 | Regional | 547435 | 6308090 | 0.30 | soil | 1 | lt br-og | - | - | mod | sub-ang | grit-peb | low | 20-Jul-10 | 75 | - |
| 87895 | 2010 | Regional | 547390 | 6308062 | 0.30 | soil | 3 | med br | - | - | few | sub-ang | grit-peb | low | 20-Jul-10 | 80 | - |
| 87896 | 2010 | Regional | 547346 | 6308037 | 0.30 | soil | 2 | med br | - | - | few | ang | grit-peb | mod | 20-Jul-10 | 70 | - |
| 87897 | 2010 | Regional | 547301 | 6308015 | 0.20 | soil | 3 | med br | - | - | none | - | - | mod | 20-Jul-10 | 100 | - |
| 87898 | 2010 | Regional | 547261 | 6307986 | 0.30 | soil | 3 | lt br | - | - | none | - | - | low | 20-Jul-10 | 90 | - |
| 87899 | 2010 | Regional | 547218 | 6307961 | 0.30 | soil | 2 | med br | - | - | mod | sub-ang | grit-peb | low | 22-Jul-10 | 65 | - |
| 87900 | 2010 | Regional | 547175 | 6307933 | 0.30 | soil | 3 | med br | - | - | few | sub-ang | grit-peb | low | 22-Jul-10 | 80 | - |
| 87901 | 2010 | Regional | 542330 | 6301666 | 0.30 | soil | 1 | gy | - | - | mod | ang | grit-peb | low | 24-Jul-10 | 120 | - |
| 87902 | 2010 | Regional | 542414 | 6301719 | 0.30 | soil | 3 | med br | - | - | abnt | sub-ang | grit-peb | low | 24-Jul-10 | 90 | - |
| 87903 | 2010 | Regional | 542458 | 6301744 | 0.40 | soil | 2 | med br | - | - | mod | sub-rnd | grit-cob | low | 24-Jul-10 | 115 | - |
| 87904 | 2010 | Regional | 542501 | 6301770 | 0.30 | soil | 2 | med br | - | - | mod | sub-ang | grit-peb | mod | 24-Jul-10 | 80 | - |
| 87905 | 2010 | Regional | 542549 | 6301794 | 0.35 | soil | 3 | gy-br | - | - | - | ang | gran-peb | mod | 25-Jul-10 | 103 | - |
| 87906 | 2010 | Regional | 542588 | 6301818 | 0.35 | soil | 2 | lt br | - | - | - | ang | gran-peb | low-med | 25-Jul-10 | 126 | - |
| 87907 | 2010 | Regional | 542633 | 6301844 | 0.20 | soil | 2 | dk br to lt br | - | - | - | sub-rnd to ang | gran-cob | low | 25-Jul-10 | 110 | - |
| 87908 | 2010 | Regional | 542675 | 6301871 | 0.40 | soil | 2 | lt og-br | - | - | - | ang-rnd | gran-cob | mod | 25-Jul-10 | 125 | gran to peb ang to cob rnd |
| 87909 | 2010 | Regional | 542719 | 6301894 | 0.25 | soil | 2 | lt br | - | - | - | ang | gran-peb | low | 25-Jul-10 | 88 | outcrop |
| 87910 | 2010 | Regional | 542765 | 6301918 | - | soil | 3 | pk-br-blk | - | - | - | ang to sub-ang | gran-peb-cob | low | 25-Jul-10 | 67 | - |
| 87911 | 2010 | Regional | 542804 | 6301941 | 0.35 | soil | 3 | dk br | - | - | none | - | - | high | 25-Jul-10 | 75 | - |
| 87912 | 2010 | Regional | 542847 | 6301967 | 0.30 | soil | 2 | lt gy-br | - | - | - | ang to sub-ang | gran-peb | low | 25-Jul-10 | 60 | - |
| 87913 | 2010 | Regional | 542890 | 6301996 | 0.45 | soil | 2 | dk br to lt gy-br | - | - | - | ang to sub-ang too sub-rnd | gran-peb | mod | 25-Jul-10 | 78 | - |
| 87914 | 2010 | Regional | 542934 | 6302019 | 0.45 | soil | 2 | lt br | - | - | - | sub-rnd | gran-peb | low | 25-Jul-10 | 75 | - |
| 87915 | 2010 | Regional | 542970 | 6302046 | 0.40 | soil | 4 | gy-br to dk br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 25-Jul-10 | 62 | - |
| 87916 | 2010 | Regional | 543064 | 6302096 | 0.50 | soil | 2 | pk-br to lt br | - | - | - | ang | gran-peb | mod | 25-Jul-10 | 88 | - |
| 87917 | 2010 | Regional | 543020 | 6302066 | 0.40 | soil | 2 | dk br to lt br | - | - | - | ang | gran-peb | high | 25-Jul-10 | 68 | - |
| 87918 | 2010 | Regional | 543105 | 6302118 | - | soil | 4 | blk to br-blk | - | - | none | - | - | mod | 25-Jul-10 | 60 | - |
| 87919 | 2010 | Regional | 543151 | 6302139 | - | soil | 3 | br | - | - | - | ang | gran-peb | high | 25-Jul-10 | 60 | - |
| 87920 | 2010 | Regional | 543195 | 6302169 | 0.35 | soil | 2 | og-br | - | - | - | ang | gran-peb | mod | 25-Jul-10 | 73 | - |
| 87921 | 2010 | Regional | 543238 | 6302194 | 0.30 | soil | 4 | gy-br | - | - | - | sub-ang | gran-peb | low | 25-Jul-10 | 62 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-------------------------|------|---------|-----------------------|-----------------------|--------------|----------|-----------|-----|-------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87922 | 2010 | Regional | 543283 | 6302218 | 0.35 | soil | 3 | gy-br to dk br | - | - | - | - | gran | high | 25-Jul-10 | 63 | - |
| 87923 | 2010 | Regional | 543332 | 6302251 | 0.30 | soil | - | med gy-br | - | - | - | ang-rnd | gran-peb | mod | 25-Jul-10 | 70 | - |
| 87924 | 2010 | Regional | 543373 | 6302276 | 0.30 | soil | 3 | gy-br | - | - | - | sub-rnd | gran-peb | - | 25-Jul-10 | 79 | - |
| 87925 | 2010 | Regional | 543418 | 6302300 | 0.30 | soil | 2 | gy-br | - | - | - | sub-ang to rnd | gran-peb | low | 25-Jul-10 | 60 | - |
| 87926 | 2010 | Regional | 543462 | 6302324 | 0.15-0.40 | soil | 3 | dk br | - | - | - | sub-rnd | gran-peb | mod | 25-Jul-10 | 50 | - |
| 87927 | 2010 | Regional | 543505 | 6302349 | 0.15-0.40 | soil | 4 | dk br to med br | - | - | - | - | gran | mod | 25-Jul-10 | 60 | - |
| 87928 | 2010 | Regional | 543550 | 6302373 | 0.15-0.40 | soil | 0 | og-br to gy-br | - | - | - | ang | gran-peb | mod | 25-Jul-10 | 52 | - |
| 87929 | 2010 | Regional | 543592 | 6302398 | 0.15-0.40 | soil | 3 | dk br | - | - | - | sub-ang | peb | low | 25-Jul-10 | 60 | - |
| 87930 | 2010 | Regional | 543019 | 6300912 | 0.15-0.40 | soil | 5 | blk-br | - | - | - | sub-rnd | gran-peb | high | 25-Jul-10 | 115 | - |
| 87931 | 2010 | Regional | 542975 | 6300888 | 0.15-0.40 | soil | 2 | gy-br | - | - | - | sub-ang | peb | low | 25-Jul-10 | 115 | - |
| 87932 | 2010 | Regional | 542932 | 6300865 | 0.15-0.40 | soil | 3 | br-gy | - | - | - | ang | gran-peb | mod | 25-Jul-10 | 130 | - |
| 87933 | 2010 | Regional | 542892 | 6300839 | 0.15-0.40 | soil | 2 | og-br | - | - | - | sub-rnd | peb | low | 25-Jul-10 | 170 | - |
| 87934 | 2010 | Regional | 542849 | 6300814 | 0.15-0.40 | soil | 2 | og-br | - | - | - | ang to sub-ang | gran-peb | mod | 25-Jul-10 | 100 | - |
| 87935 | 2010 | Regional | 542804 | 6300790 | 0.15-0.40 | soil | 3 | og-br | - | - | - | sub-rnd to ang to rnd | gran-peb | mod | 25-Jul-10 | 180 | - |
| 87936 | 2010 | Regional | 542758 | 6300767 | 0.15-0.40 | soil | 3 | og-br to gy | - | - | - | ang to sub-ang | gran-peb | - | 25-Jul-10 | 100 | - |
| 87937 | 2010 | Regional | 542718 | 6300739 | 0.15-0.40 | soil | 4 | blk-br | - | - | - | - | gran | high | 25-Jul-10 | 85 | - |
| 87938 | 2010 | Regional | 542676 | 6300713 | 0.20 | soil | 2 | lt br | - | - | - | ang to sub-ang | gran-peb | mod | 27-Jul-10 | 100 | - |
| 87939 | 2010 | Regional | 542629 | 6300688 | 0.40 | soil | 3 | med br-og | - | - | - | sub-rnd | gran-peb | high | 27-Jul-10 | 100 | - |
| 87940 | 2010 | Regional | 542543 | 6300640 | 0.50 | soil | 4 | dk gy-br | - | - | - | sub-rnd | gran-peb | high | 27-Jul-10 | 95 | up to 5cm pebble |
| 87941 | 2010 | Regional | 542502 | 6300618 | 0.20 | soil | 2 | med br | - | - | - | ang | gran-peb | mod | 27-Jul-10 | 80 | - |
| 87942 | 2010 | Regional | 542414 | 6300565 | 0.35 | soil | 2 | dk br-og to br to gy-br | - | - | - | sub-ang | gran-peb | mod | 27-Jul-10 | 100 | - |
| 87943 | 2010 | Regional | 542368 | 6300536 | 0.50 | soil | 3 | gy-br | - | - | - | sub-rnd to sub-ang | gran-peb | mod | 27-Jul-10 | 80 | - |
| 87944 | 2010 | Regional | 542328 | 6300513 | 0.35 | soil | 3 | med gy-og-br | - | - | - | - | gran-peb | mod | 27-Jul-10 | 110 | - |
| 87945 | 2010 | Regional | 542286 | 6300487 | 0.30 | soil | - | gy-br to og-br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 27-Jul-10 | 100 | - |
| 87946 | 2010 | Regional | 542239 | 6300464 | 0.40 | soil | 4 | dk br | - | - | none | - | - | high | 27-Jul-10 | 70 | - |
| 87947 | 2010 | Regional | 542196 | 6300438 | 0.30 | soil | 3 | med br | - | - | - | sub-ang | gran-peb | high | 27-Jul-10 | 90 | - |
| 87948 | 2010 | Regional | 542157 | 6300414 | - | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | low | 27-Jul-10 | 100 | - |
| 87949 | 2010 | Regional | 542111 | 6300391 | 0.30 | soil | 4 | gy-br | - | - | - | sub-ang | gran-peb | low | 27-Jul-10 | 75 | - |
| 87950 | 2010 | Regional | 542026 | 6300342 | - | soil | 4 | gy-br | - | - | - | sub-rnd | gran-cob | mod | 27-Jul-10 | 100 | - |
| 87951 | 2010 | Regional | 541981 | 6300315 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang | gran-peb | low | 27-Jul-10 | 115 | - |
| 87952 | 2010 | Regional | 541938 | 6300292 | 0.20 | soil | 2 | med br | - | - | - | rnd to sub-rnd | grit-cob | high | 27-Jul-10 | 130 | - |
| 87953 | 2010 | Regional | 541895 | 6300266 | - | soil | 3 | dk br-blk | - | - | - | - | grit | high | 27-Jul-10 | 70 | - |
| 87954 | 2010 | Regional | 541855 | 6300242 | 0.25 | soil | 3 | dk br-blk | - | - | - | - | grit | high | 27-Jul-10 | 90 | outcrop right there |
| 87955 | 2010 | Regional | 541807 | 6300213 | 0.35 | soil | 3 | med og-br | - | - | - | rnd to ang to sub-ang | grit-peb | high | 27-Jul-10 | 70 | - |
| 87956 | 2010 | Regional | 541767 | 6300188 | 0.20 | soil | 2 | med br | - | - | - | ang to sub-rnd | gran-peb-cob | high | 27-Jul-10 | 90 | peb is ang and cob is sub-rnd |
| 87957 | 2010 | Regional | 541720 | 6300163 | 0.40 | soil | 2 | gy-br to med br | - | - | - | ang to sub-ang | grit-peb-cob | mod | 27-Jul-10 | 80 | - |
| 87958 | 2010 | Regional | 541675 | 6300141 | 0.30 | soil | 2 | med br | - | - | - | ang | grit-peb | low | 27-Jul-10 | 85 | - |
| 87959 | 2010 | Regional | 541634 | 6300113 | 0.20 | soil | 2 | blk to dk br | - | - | - | - | grit | mod | 27-Jul-10 | 65 | - |
| 87960 | 2010 | Regional | 541591 | 6300086 | 0.25 | soil | 3 | blk | - | - | - | ang to sub-rnd | grit | high | 27-Jul-10 | 70 | - |
| 87961 | 2010 | Regional | 541547 | 6300064 | 0.30 | soil | 2 | dk br | - | - | - | ang to sub-ang | grit-peb | mod | 27-Jul-10 | 75 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------------|------|---------|-----------------------|--------------------|---------------|----------|-----------|-----|--|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 87962 | 2010 | Regional | 541804 | 6299048 | 0.30 | soil | 3 | dk br-blk | - | - | - | - | gran | low | 27-Jul-10 | 90 | - |
| 87963 | 2010 | Regional | 541889 | 6299100 | 0.35 | soil | 2 | med og-br | - | - | - | sub-ang to sub-rnd | grit | low | 27-Jul-10 | 100 | - |
| 87964 | 2010 | Regional | 541931 | 6299124 | 0.40 | soil | 2 | gy-og-br | - | - | - | ang | gran-ang | high | 27-Jul-10 | 90 | - |
| 87965 | 2010 | Regional | 541987 | 6299157 | 0.20 | soil | 2 | gy-br | - | - | - | sub-ang | grit-peb | - | 27-Jul-10 | 60 | - |
| 87966 | 2010 | Regional | 542071 | 6299210 | - | soil | 2 | med br | - | - | - | - | gran | mod | 27-Jul-10 | 120 | - |
| 87967 | 2010 | Regional | 542137 | 6299236 | 0.30 | soil | 3 | gy-br | - | - | - | ang | gran-peb | high | 28-Jul-10 | 100 | - |
| 87968 | 2010 | Regional | 542181 | 6299263 | 0.20 | soil | 2 | gy-og-br | - | - | - | rnd | gran-peb | high | 28-Jul-10 | 120 | - |
| 87969 | 2010 | Regional | 542222 | 6299285 | 0.35 | soil | 2 | gy-og-br to med br | - | - | - | ang | gran-peb | - | 28-Jul-10 | 120 | pebbles are small |
| 87970 | 2010 | Regional | 542267 | 6299317 | 0.30 | soil | 3 | gy-br | - | - | - | sub-rnd | gran-peb | high | 28-Jul-10 | 110 | pebbles are big |
| 87971 | 2010 | Regional | 542309 | 6299340 | - | soil | 2 | med br-og | - | - | - | ang to sub-rnd | grit-peb-cob | mod | 28-Jul-10 | 90 | - |
| 87972 | 2010 | Regional | 542353 | 6299365 | 0.40 | soil | 2 | og-gy-br to med br | - | - | - | ang | gran-cob | - | 28-Jul-10 | 85 | - |
| 87973 | 2010 | Regional | 542394 | 6299387 | 0.20 | soil | 2 | gy-og-br | - | - | - | ang | grit-peb | high | 28-Jul-10 | 110 | - |
| 87974 | 2010 | Regional | 542436 | 6299413 | 0.20 | soil | 2 | gy-og | - | - | - | ang | grit-gran-pek | high | 28-Jul-10 | 70 | - |
| 87975 | 2010 | Regional | 542481 | 6299436 | - | soil | 2 | gy-br to med br | - | - | - | ang | gran-peb | high | 28-Jul-10 | 90 | - |
| 87976 | 2010 | Regional | 542525 | 6299465 | 0.20 | soil | 2 | gy-br | - | - | - | ang | gran-cob | high | 28-Jul-10 | 80 | - |
| 87977 | 2010 | Regional | 542569 | 6299486 | - | soil | 2 | gy | - | - | - | ang | grit-cob | low | 28-Jul-10 | 40 | - |
| 87978 | 2010 | Regional | 542611 | 6299514 | 0.15 | soil | 2 | dk br | - | - | - | ang | gran-cob | mod | 28-Jul-10 | 70 | - |
| 87979 | 2010 | Regional | 542654 | 6299538 | 0.20 | soil | 2 | lt br | - | - | - | ang | grit-peb | high | 28-Jul-10 | 80 | - |
| 87980 | 2010 | Regional | 542701 | 6299565 | 0.25 | soil | 2 | med br | - | - | - | ang | grit-peb | mod | 28-Jul-10 | 85 | - |
| 87981 | 2010 | Regional | 542738 | 6299587 | 0.30 | soil | 5 | gy-br | - | - | - | rnd | grit-cob | mod | 28-Jul-10 | 90 | - |
| 87982 | 2010 | Regional | 543044 | 6299763 | 0.30 | soil | 2 | gy-br | - | - | - | rnd | gran-peb | high | 28-Jul-10 | 100 | - |
| 87983 | 2010 | Regional | 543086 | 6299789 | - | soil | 2 | og-br to gy-br | - | - | - | rnd | gran-peb | low | 28-Jul-10 | 130 | - |
| 87984 | 2010 | Regional | 543128 | 6299815 | 0.20 | soil | 2 | og-br to gy-br | - | - | - | sub-ang to sub-rnd | grit-peb | high | 28-Jul-10 | 100 | - |
| 87985 | 2010 | Regional | 543260 | 6299889 | 0.20 | soil | 1 | og-gy-br | - | - | - | ang | gran-peb | mod | 28-Jul-10 | 70 | - |
| 87986 | 2010 | Regional | 543303 | 6299910 | 0.25 | soil | 2 | og-br to gy-br | - | - | - | - | grit | high | 28-Jul-10 | 80 | No GPS wpt saved, but GPS location recorded in sample book as 543302E, 6299910N, which is logical location w.r.t. previous samples on line |
| 87987 | 2010 | Regional | 543351 | 6300036 | 0.20 | soil | 2 | dk br | - | - | - | sub-ang | gran-peb | high | 28-Jul-10 | 50 | GPS wpt saved conflicts with loc of sample 87986. Location recorded in sample book as 543521E, 630036N (too few digits in northing) |
| 87988 | 2010 | Regional | 544047 | 6300346 | 0.20 | soil | 2 | og-gy-br | - | - | - | sub-ang to sub-rnd | gran-cob | mod | 28-Jul-10 | 50 | pebbles are sub-ang and cobbles are sub-rnd |
| 87989 | 2010 | Regional | 544001 | 6300325 | 0.30 | soil | - | med br-og | - | - | - | sub-ang | gran-cob | high | 28-Jul-10 | 40 | - |
| 87990 | 2010 | Regional | 543959 | 6300305 | 0.40 | soil | 2 | med br-og | - | - | - | ang | grit-gran-pek | mod | 28-Jul-10 | 47 | - |
| 87991 | 2010 | Regional | 541611 | 6313898 | 0.35 | soil | 2 | med br | - | - | abnt | sub-ang | grit-peb | mod | 31-Jul-10 | 70 | - |
| 87992 | 2010 | Regional | 541569 | 6313871 | 0.30 | soil | 4 | gy | - | - | few | sub-ang | grit-peb | low | 31-Jul-10 | 100 | - |
| 87993 | 2010 | Regional | 541529 | 6313853 | 0.30 | soil | 2 | med br | - | - | few | ang | grit-peb | mod | 31-Jul-10 | 85 | - |
| 87994 | 2010 | Regional | 541484 | 6313825 | 0.45 | soil | 1 | lt br | - | - | few | ang | grit-peb | mod | 31-Jul-10 | 70 | - |
| 87995 | 2010 | Regional | 541443 | 6313796 | 0.35 | soil | 1 | lt br to gy | - | - | - | - | grit-gran | mod | 31-Jul-10 | 80 | - |
| 87996 | 2010 | Regional | 541400 | 6313776 | 0.30 | soil | 2 | br-og | - | - | mod | sub-ang to sub-rnd | grit-cob | mod | 31-Jul-10 | 80 | - |
| 87997 | 2010 | Regional | 541358 | 6313752 | 0.30 | soil | 2 | lt br | - | - | mod | sub-ang | grit-peb | mod | 31-Jul-10 | 100 | - |
| 87998 | 2010 | Regional | 541313 | 6313726 | - | soil | 2 | lt br | - | - | few | sub-ang to sub-rnd | grit-peb | mod | 31-Jul-10 | 80 | - |
| 87999 | 2010 | Regional | 541270 | 6313703 | 0.35 | soil | 3 | br-blk | - | - | - | - | grit-gran | high | 31-Jul-10 | 70 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|---------------|----------|-----------|-----|--------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 88000 | 2010 | Regional | 541221 | 6313670 | 0.35 | soil | 2 | lt br | - | - | abnt | sub-ang | grit-cob | mod | 31-Jul-10 | 85 | - |
| 89701 | 2010 | Regional | 537242 | 6316709 | 0.50 | soil | 2 | med gy-br | - | - | - | sub-ang to rnd | gran-peb | mod | 13-Aug-10 | 60 | - |
| 89702 | 2010 | Regional | 537292 | 6316728 | 0.40 | soil | 3 | dk br | - | - | - | - | gran | high | 13-Aug-10 | 50 | - |
| 89703 | 2010 | Regional | 537371 | 6316787 | 0.18 | soil | 2 | med to dk br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 40 | - |
| 89704 | 2010 | Regional | 537411 | 6316808 | 0.30 | soil | 2 | dk br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 50 | - |
| 89705 | 2010 | Regional | 537503 | 6316853 | 0.20 | soil | 2 | med to dk br | - | - | - | sub-ang | grit-gran-pet | high | 13-Aug-10 | 80 | - |
| 89706 | 2010 | Regional | 537540 | 6316882 | 0.30 | soil | 3 | dk br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 60 | - |
| 89707 | 2010 | Regional | 537581 | 6316902 | 0.30 | soil | 3 | blk-br | - | - | - | - | grit | high | 13-Aug-10 | 90 | - |
| 89708 | 2010 | Regional | 537636 | 6316929 | 0.20 | soil | 2 | og-br | - | - | - | - | grit-gran | mod | 13-Aug-10 | 90 | - |
| 89709 | 2010 | Regional | 537724 | 6316979 | 0.30 | soil | 2 | med og-br | - | - | - | - | gran | mod | 13-Aug-10 | 100 | - |
| 89710 | 2010 | Regional | 537765 | 6317014 | 0.30 | soil | 3 | gy | - | - | - | ang | gran-peb | high | 13-Aug-10 | 70 | - |
| 89711 | 2010 | Regional | 537807 | 6317036 | 0.10 | soil | 2 | r-br | - | - | - | - | grit-gran | high | 13-Aug-10 | 60 | - |
| 89712 | 2010 | Regional | 537929 | 6317110 | 0.50 | soil | 2 | med br | - | - | - | rnd-ang | gran-peb-cob | high | 13-Aug-10 | 140 | rnd cob and ang/ rnd peb |
| 89713 | 2010 | Regional | 538015 | 6317169 | 0.60 | soil | 3 | blk-gy | - | - | - | ang | gran-peb | v. high | 13-Aug-10 | 40 | pebbles are flat and ang |
| 89714 | 2010 | Regional | 538055 | 6317193 | 0.30 | soil | 3 | dk gy | - | - | - | ang | gran-peb | v. high | 13-Aug-10 | 60 | - |
| 89715 | 2010 | Regional | 538102 | 6317204 | 0.20 | soil | 3 | med br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 80 | pebbles are flat and ang |
| 89716 | 2010 | Regional | 538143 | 6317241 | 0.20 | soil | 2 | gy-br | - | - | - | - | gran | high | 13-Aug-10 | 50 | - |
| 89717 | 2010 | Regional | 538181 | 6317266 | 0.30 | soil | 2 | med og-br | - | - | - | - | grit-gran | high | 13-Aug-10 | 60 | - |
| 89718 | 2010 | Regional | 538232 | 6317289 | 0.40 | soil | 2 | gy-br | - | - | - | ang to sub-ang | gran-peb | high | 13-Aug-10 | 80 | - |
| 89719 | 2010 | Regional | 538278 | 6317313 | 0.40 | soil | 2 | med br | - | - | - | sub-ang | gran-peb | high | 13-Aug-10 | 80 | - |
| 89720 | 2010 | Regional | 538016 | 6317665 | 0.40 | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | high | 13-Aug-10 | 70 | - |
| 89721 | 2010 | Regional | 537974 | 6317642 | 0.45 | soil | 2 | med to dk br | - | - | - | - | grit-gran | high | 13-Aug-10 | 55 | - |
| 89722 | 2010 | Regional | 537931 | 6317616 | 0.25 | soil | 2 | med br | - | - | - | ang | grit-peb | mod | 13-Aug-10 | 90 | - |
| 89723 | 2010 | Regional | 537884 | 6317587 | 0.30 | soil | 2 | med to lt br | - | - | - | ang | gran-peb | low | 13-Aug-10 | 60 | - |
| 89724 | 2010 | Regional | 537840 | 6317568 | 0.40 | soil | 2 | lt gy-og-br | - | - | - | - | grit | mod | 13-Aug-10 | 50 | - |
| 89725 | 2010 | Regional | 537799 | 6317536 | 0.25 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 70 | - |
| 89726 | 2010 | Regional | 537756 | 6317519 | 0.45 | soil | 2 | med br | - | - | - | ang-rnd | gran-peb-cob | low | 15-Aug-10 | 100 | ang peb and rnd cob |
| 89727 | 2010 | Regional | 537711 | 6317491 | 0.40 | soil | 3 | med br | - | - | - | ang | grit-peb | mod | 15-Aug-10 | 60 | - |
| 89728 | 2010 | Regional | 537666 | 6317468 | 0.30 | soil | 3 | gy-og-br | - | - | - | ang | grit-gran-pet | high | 15-Aug-10 | 50 | - |
| 89729 | 2010 | Regional | 537619 | 6317442 | 0.50 | soil | 3 | bg and pk | - | - | - | - | gran | low | 15-Aug-10 | 52 | - |
| 89730 | 2010 | Regional | 537602 | 6317419 | 0.45 | soil | 3 | dk gy-br | - | - | - | - | grit-gran | high | 15-Aug-10 | 60 | - |
| 89731 | 2010 | Regional | 537553 | 6317396 | 0.30 | soil | 2 | gy-og-br | - | - | - | - | gran | mod | 15-Aug-10 | 100 | - |
| 89732 | 2010 | Regional | 537504 | 6317381 | 0.20 | soil | 2 | gy-og-br | - | - | - | sub-ang | gran-peb | mod | 15-Aug-10 | 60 | - |
| 89733 | 2010 | Regional | 537476 | 6317348 | 0.40 | soil | 2 | med br | - | - | - | ang | gran-peb-cob | high | 15-Aug-10 | 60 | - |
| 89734 | 2010 | Regional | 537431 | 6317330 | 0.40 | soil | 2 | og-br | - | - | - | - | gran | high | 15-Aug-10 | 170 | - |
| 89735 | 2010 | Regional | 537387 | 6317296 | 0.30 | soil | 2 | med gy-br | - | - | - | ang | gran-peb | mod | 15-Aug-10 | 60 | - |
| 89736 | 2010 | Regional | 537258 | 6317227 | 0.45 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | high | 15-Aug-10 | 70 | - |
| 89737 | 2010 | Regional | 537210 | 6317195 | 0.35 | soil | 3 | blk-br | - | - | - | sub-rnd | gran-peb | high | 15-Aug-10 | 100 | - |
| 89739 | 2010 | Regional | 537114 | 6317137 | 0.35 | soil | 3 | lt blk-gy | - | - | - | - | gran | high | 15-Aug-10 | 60 | - |
| 89740 | 2010 | Regional | 537076 | 6317117 | 0.30 | soil | 2 | gy-og-br | - | - | - | rnd | gran-peb | mod | 15-Aug-10 | 130 | - |
| 89741 | 2010 | Regional | 537028 | 6317094 | 0.20 | soil | 2 | dk r-br | - | - | - | ang | gran-peb | high | 15-Aug-10 | 70 | - |
| 89742 | 2010 | Regional | 536938 | 6317047 | 0.30 | soil | 3 | med to dk br | - | - | - | ang to sub-rnd | grit-peb-cob | mod | 15-Aug-10 | 110 | ang peb and sub-rnd cob |
| 89743 | 2010 | Regional | 536542 | 6317390 | 0.30 | soil | 2 | med br-og | - | - | - | sub-ang to sub-rnd | gran-peb-cob | high | 15-Aug-10 | 110 | - |
| 89744 | 2010 | Regional | 536589 | 6317409 | 0.20 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | high | 15-Aug-10 | 120 | - |
| 89745 | 2010 | Regional | 536625 | 6317441 | 0.45 | soil | 3 | blk-br | - | - | - | ang | gran-peb-cob | high | 15-Aug-10 | 90 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments | |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------------|------|---------|-----------------------|-------|--------------------|---------------|-----------|-----------|--|--------------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | | |
| 89746 | 2010 | Regional | 536671 | 6317461 | 0.40 | soil | 3 | gy-br | - | - | - | - | gran | mod | 15-Aug-10 | 70 | - | |
| 89747 | 2010 | Regional | 536894 | 6317595 | 0.20 | soil | 3 | med br | - | - | - | - | ang | grit-peb-cob | high | 15-Aug-10 | 70 | - |
| 89748 | 2010 | Regional | 536947 | 6317624 | 0.20 | soil | 2 | og-br | - | - | - | - | gran | high | 15-Aug-10 | 100 | - | |
| 89749 | 2010 | Regional | 536986 | 6317653 | 0.30 | soil | 3 | blk to med br | - | - | - | - | ang to sub-ang | gran-peb | high | 15-Aug-10 | 90 | - |
| 89750 | 2010 | Regional | 537021 | 6317675 | 0.15 | soil | 2 | med br | - | - | - | - | ang | gran-peb | mod | 15-Aug-10 | 90 | - |
| 89751 | 2010 | Off Grid | 537546 | 6310512 | 0.30 | soil | 2 | r | - | - | - | - | fist-sized | - | 15-Aug-10 | 300 | small fist size rocks of carb within, maybe soil is a weathering product? See also rock sample 87661 | |
| 89752 | 2010 | Regional | 537071 | 6317700 | 0.20 | soil | 2 | med to dk br | - | - | - | - | gran | high | 15-Aug-10 | 130 | flagged as 89751 | |
| 89753 | 2010 | Regional | 537113 | 6317726 | 0.15 | soil | 2 | og | - | - | - | - | gran | high | 15-Aug-10 | 140 | - | |
| 89754 | 2010 | Regional | 537242 | 6317801 | 0.50 | soil | 4 | blk-br | - | - | - | - | sub-ang | grit-sub-ang | high | 15-Aug-10 | 75 | - |
| 89755 | 2010 | Regional | 537289 | 6317826 | 0.30 | soil | 2 | lt br | - | - | - | - | ang | grit-ang | high | 15-Aug-10 | 60 | - |
| 89756 | 2010 | Regional | 537330 | 6317848 | 0.20 | soil | 4 | dk br | - | - | - | none | - | high | 15-Aug-10 | 110 | - | |
| 89757 | 2010 | Regional | 537375 | 6317877 | 0.50 | soil | 4 | dk br | - | - | - | - | sub-ang | grit-peb | high | 15-Aug-10 | 50 | - |
| 89758 | 2010 | Regional | 537419 | 6317903 | 0.10 | soil | 2 | r-og-br | - | - | - | - | sub-rnd | gran-peb | high | 15-Aug-10 | 60 | - |
| 89759 | 2010 | Regional | 537456 | 6317922 | 0.45 | soil | 2 | gy-br | - | - | - | - | gran | high | 15-Aug-10 | 70 | - | |
| 89760 | 2010 | Regional | 537548 | 6317977 | 0.20 | soil | 3 | gy-og-br | - | - | - | - | gran | mod | 15-Aug-10 | 80 | - | |
| 89761 | 2010 | Regional | 537603 | 6318009 | 0.20 | soil | 2 | dk br | - | - | - | - | ang | gran-peb | high | 15-Aug-10 | 60 | - |
| 89762 | 2010 | Regional | 537646 | 6318052 | 0.20 | soil | 2 | lt gy-og-br | - | - | - | - | ang | gran-peb | mod | 15-Aug-10 | 60 | - |
| 89763 | 2010 | Regional | 537694 | 6318073 | 0.35 | soil | - | med br | - | - | - | - | sub-ang | gran-peb | high | 15-Aug-10 | 60 | - |
| 89764 | 2010 | Regional | 537504 | 6318528 | 0.30 | soil | 2 | blk-gy-br | - | - | - | - | ang | gran-peb | high | 15-Aug-10 | 70 | - |
| 89765 | 2010 | Regional | 537457 | 6318500 | 0.35 | soil | 3 | blk-br | - | - | - | none | - | high | 15-Aug-10 | 60 | - | |
| 89766 | 2010 | Regional | 537418 | 6318474 | 0.30 | soil | 2 | gy-og-br | - | - | - | - | ang to sub-rnd | gran-peb-cob | high | 16-Aug-10 | 90 | pebbles are ang, and cobbles are rnd |
| 89767 | 2010 | Regional | 537379 | 6318465 | 0.30 | soil | 2 | lt br | - | - | - | - | sub-rnd to sub-ang | grit-peb | high | 16-Aug-10 | 130 | lrg pebbles |
| 89768 | 2010 | Regional | 537333 | 6318426 | 0.20 | soil | 2 | med to dk br | - | - | - | - | ang | grit-gran-peb | high | 16-Aug-10 | 60 | - |
| 89769 | 2010 | Regional | 537290 | 6318399 | 0.30 | soil | 2 | lt br to rd-br | - | - | - | - | ang | gran-peb | high | 16-Aug-10 | 80 | - |
| 89770 | 2010 | Regional | 537244 | 6318369 | 0.50 | soil | 5 | dk br | - | - | - | - | ang | gran-peb | high | 16-Aug-10 | 60 | - |
| 89771 | 2010 | Regional | 537201 | 6318344 | 0.45 | soil | 2 | med to lt br | - | - | - | - | sub-ang | gran-peb | high | 16-Aug-10 | 100 | - |
| 89772 | 2010 | Regional | 537151 | 6318318 | 0.40 | soil | 2 | og-br | - | - | - | - | ang | gran-peb | high | 16-Aug-10 | 70 | pebbles are long and ang |
| 89773 | 2010 | Regional | 537071 | 6318277 | - | soil | 3 | dk br | - | - | - | - | sub-ang | gran-peb | high | 16-Aug-10 | 50 | - |
| 89774 | 2010 | Regional | 537026 | 6318249 | 0.20 | soil | 2 | lt og-br | - | - | - | - | ang | gran-peb | mod | 16-Aug-10 | 70 | - |
| 89775 | 2010 | Regional | 536978 | 6318218 | 0.50 | soil | 3 | dk br | - | - | - | - | grit | high | 16-Aug-10 | 70 | - | |
| 89776 | 2010 | Regional | 536939 | 6318193 | 0.25 | soil | 2 | lt og-br | - | - | - | - | rnd-ang | gran-cob | mod | 16-Aug-10 | 100 | - |
| 89777 | 2010 | Regional | 536850 | 6318141 | 0.30 | soil | 4 | lt br | - | - | - | - | grit | high | 16-Aug-10 | 120 | - | |
| 89778 | 2010 | Regional | 536809 | 6318116 | 0.15 | soil | 2 | dk gy-br | - | - | - | - | sub-ang | gran-peb | mod | 16-Aug-10 | 130 | - |
| 89779 | 2010 | Regional | 536765 | 6318094 | 0.20 | soil | 2 | lt og-br | - | - | - | - | sub-rnd | gran-peb | mod | 16-Aug-10 | 140 | - |
| 89780 | 2010 | Regional | 536721 | 6318069 | 0.15 | soil | 3 | lt br | - | - | - | - | sub-ang to sub-rnd | grit-peb | low | 16-Aug-10 | 130 | - |
| 89781 | 2010 | Regional | 536679 | 6318044 | 0.30 | soil | 3 | lt gy-br | - | - | - | - | gran | low | 16-Aug-10 | 110 | - | |
| 89782 | 2010 | Regional | 536633 | 6318019 | 0.30 | soil | 3 | lt gy-br | - | - | - | - | gran | mod | 16-Aug-10 | 130 | - | |
| 89783 | 2010 | Regional | 536592 | 6317990 | 0.30 | soil | 3 | lt gy-br | - | - | - | - | ang | gran-peb | mod | 16-Aug-10 | 100 | - |
| 89784 | 2010 | Regional | 536548 | 6317968 | 0.40 | soil | 3 | lt gy-br | - | - | - | - | sub-rnd | gran-peb-cob | mod | 16-Aug-10 | 130 | - |
| 89785 | 2010 | Regional | 536503 | 6317941 | 0.40 | soil | 2 | lt og-br | - | - | - | - | rnd to sub-rnd | gran-peb | mod | 16-Aug-10 | 130 | - |
| 89786 | 2010 | Regional | 536461 | 6317914 | 0.30 | soil | 2 | lt gy-og-br | - | - | - | - | rnd | gran-peb | mod | 16-Aug-10 | 100 | - |
| 89787 | 2010 | Regional | 536416 | 6317894 | 0.30 | soil | 3 | gy-og-br | - | - | - | - | ang | gran-peb | mod | 16-Aug-10 | 120 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------------|------|---------|-----------------------|--------------------|---------------|-----------|-----------|----------------------------|--|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 89788 | 2010 | Regional | 536374 | 6317869 | 0.50 | soil | 3 | med br | - | - | - | sub-rnd | grit-peb | low | 16-Aug-10 | 150 | peb are small |
| 89801 | 2010 | Regional | 531355 | 6314690 | 0.20 | soil | 3 | med to dk br | - | - | - | ang | grit-peb | high | 10-Aug-10 | 100 | pebbles are big |
| 89802 | 2010 | Regional | 531305 | 6314663 | 0.15 | soil | 4 | gy | - | - | - | ang | gran-peb | high | 10-Aug-10 | 100 | - |
| 89803 | 2010 | Regional | 531263 | 6314638 | 0.30 | soil | 2 | og-br to gy-br | - | - | - | ang to sub-rnd | gran-peb | mod | 10-Aug-10 | 70 | - |
| 89804 | 2010 | Regional | 531170 | 6314597 | 0.40 | soil | 2 | med gy-br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 10-Aug-10 | 110 | - |
| 89805 | 2010 | Regional | 531131 | 6314565 | 0.30 | soil | 2 | gy-p-br | - | - | - | - | gran | mod | 10-Aug-10 | 90 | - |
| 89806 | 2010 | Regional | 531093 | 6314538 | 0.40 | soil | 2 | br | - | - | - | ang to sub-ang | gran-peb | mod | 10-Aug-10 | 80 | - |
| 89809 | 2010 | Regional | 531000 | 6314490 | 0.20 | soil | 3 | gy-br | - | - | - | sub-rnd to ang | gran-peb-cot | mod | 10-Aug-10 | 100 | - |
| 89810 | 2010 | Regional | 530893 | 6314432 | 0.50 | soil | 3 | med br | - | - | - | sub-ang | gran-peb | mod | 10-Aug-10 | 100 | - |
| 89811 | 2010 | Regional | 530854 | 6314413 | 0.40 | soil | 2 | med og-br | - | - | - | sub-ang | gran-peb | low | 10-Aug-10 | 100 | - |
| 89812 | 2010 | Regional | 530810 | 6314393 | 0.40 | soil | 3 | med br | - | - | - | ang | grit-gran-peb | low | 10-Aug-10 | 110 | - |
| 89813 | 2010 | Regional | 530772 | 6314361 | 0.40 | soil | 3 | og-gy | - | - | - | rnd | grit-peb | high | 11-Aug-10 | 130 | - |
| 89814 | 2010 | Regional | 530716 | 6314348 | 0.15 | soil | 3 | med br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 11-Aug-10 | 130 | - |
| 89815 | 2010 | Regional | 530669 | 6314295 | 0.35 | soils | 4 | lt gy-br | - | - | - | - | grit-gran | mod | 11-Aug-10 | 110 | - |
| 89816 | 2010 | Regional | 530609 | 6314266 | 0.30 | soil | 4 | dk to med br | - | - | - | sub-rnd | gran-peb-cot | mod | 11-Aug-10 | 120 | - |
| 89817 | 2010 | Regional | 530563 | 6314228 | 0.40 | soil | 4 | med br | - | - | - | ang to sub-ang | gran-peb | mod | 11-Aug-10 | 140 | - |
| 89818 | 2010 | Regional | 530481 | 6314186 | 0.40 | soil | 5 | dk to med br | - | - | - | - | gran | mod | 11-Aug-10 | 120 | - |
| 89819 | 2010 | Regional | 530433 | 6314150 | 0.30 | soil | 3 | med br | - | - | - | - | gran | mod | 11-Aug-10 | 90 | - |
| 89820 | 2010 | Regional | 530392 | 6314121 | 0.20 | soil | 2 | med og-br | - | - | - | sub-rnd | gran-peb | high | 11-Aug-10 | 130 | - |
| 89821 | 2010 | Regional | 530341 | 6314101 | 0.20 | soil | 3 | lt gy-br | - | - | - | sub-ang | gran-peb | low | 11-Aug-10 | 130 | - |
| 89822 | 2010 | Regional | 530299 | 6314079 | 0.20 | soil | 3 | lt gy-br | - | - | - | ang | grit-peb | low | 11-Aug-10 | 110 | - |
| 89823 | 2010 | Regional | 530259 | 6314055 | 0.30 | soil | 2 | med og-br | - | - | - | ang | gran-peb | mod | 11-Aug-10 | 110 | - |
| 89824 | 2010 | Regional | 530218 | 6314023 | - | soil | 3 | blk-br | - | - | - | ang | gran-peb | high | 11-Aug-10 | 100 | - |
| 89825 | 2010 | Regional | 530175 | 6314003 | 0.50 | soil | 3 | - | - | - | - | gran-peb | low | 11-Aug-10 | 80 | pebbles are small and long | |
| 89826 | 2010 | Regional | 530129 | 6313972 | 0.30 | soil | 3 | gy | - | - | - | ang | gran-peb | low | 11-Aug-10 | 140 | - |
| 89827 | 2010 | Regional | 530086 | 6313957 | 0.50 | soil | 2 | dk gy-br | - | - | - | ang | gran-peb | high | 11-Aug-10 | 90 | pebbles are big |
| 89828 | 2010 | Regional | 530046 | 6313930 | 0.30 | soil | 2 | og-br | - | - | - | sub-rnd | gran-peb | mod | 11-Aug-10 | 110 | - |
| 89829 | 2010 | Regional | 529993 | 6313894 | 0.40 | soil | 3 | gy-br | - | - | - | - | grit | high | 11-Aug-10 | 90 | - |
| 89830 | 2010 | Regional | 529954 | 6313884 | 0.40 | soil | 3 | gy-br | - | - | - | ang | gran-peb | high | 11-Aug-10 | 100 | - |
| 89831 | 2010 | Regional | 529913 | 6313854 | 0.40 | soil | 4 | dk gy-br | - | - | - | ang | grit-gran-peb | high | 11-Aug-10 | 150 | - |
| 89832 | 2010 | Regional | 529869 | 6313827 | 0.30 | soil | 3 | med to lt br | - | - | - | rnd | gran-peb | mod | 11-Aug-10 | 110 | - |
| 89833 | 2010 | Regional | 529899 | 6314669 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang to sub-rnd | gran-peb | mod | 11-Aug-10 | 130 | - |
| 89834 | 2010 | Regional | 529952 | 6314684 | 0.40 | soil | 2 | dk br | - | - | - | sub-ang | gran-peb | mod | 11-Aug-10 | 90 | - |
| 89835 | 2010 | Regional | 529987 | 6314710 | 0.25 | soil | 2 | p-gy-br | - | - | - | - | gran | mod | 11-Aug-10 | 115 | - |
| 89836 | 2010 | Regional | 530034 | 6314736 | 0.30 | soil | 3 | gy | - | - | - | ang | gran-peb | high | 11-Aug-10 | 85 | - |
| 89837 | 2010 | Regional | 530075 | 6314752 | 0.60 | soil | 3 | med br | - | - | - | ang-rnd | gran-peb-cot | mod | 11-Aug-10 | 120 | pebbles are ang-sub-ang, and cobbles are rnd-sub-rnd |
| 89838 | 2010 | Regional | 530211 | 6314833 | 0.20 | soil | 3 | med br | - | - | - | ang | gran-peb | mod | 11-Aug-10 | 150 | - |
| 89839 | 2010 | Regional | 530253 | 6314864 | 0.30 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | mod | 11-Aug-10 | 130 | - |
| 89840 | 2010 | Regional | 530300 | 6314892 | 0.30 | soil | 2 | med br | - | - | - | ang to sub-ang | gran-peb | mod | 11-Aug-10 | 130 | - |
| 89841 | 2010 | Regional | 530340 | 6314917 | 0.50 | soil | 2 | blk-br | - | - | - | ang | grit-peb | high | 11-Aug-10 | 80 | - |
| 89842 | 2010 | Regional | 530376 | 6314944 | 0.20 | soil | 2 | og-br | - | - | - | ang | gran-peb | mod | 11-Aug-10 | 100 | - |
| 89843 | 2010 | Regional | 530428 | 6314963 | 0.30 | soil | 3 | gy-br | - | - | - | - | gran | mod | 11-Aug-10 | 100 | - |
| 89844 | 2010 | Regional | 530470 | 6314989 | 0.50 | soil | 3 | dk br | - | - | - | - | gran | mod | 11-Aug-10 | 90 | - |
| 89845 | 2010 | Regional | 530518 | 6315017 | 0.30 | soil | 3 | dk gy-br | - | - | - | ang | gran-peb | low | 11-Aug-10 | 110 | - |
| 89846 | 2010 | Regional | 530554 | 6315038 | 0.40 | soil | 4 | med br | - | - | - | sub-ang to ang | gran-peb | high | 11-Aug-10 | 115 | pebbles are flat |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|----------------|---------------|----------|-----------|-----|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 89847 | 2010 | Regional | 530612 | 6315077 | 0.40 | soil | 3 | med br | - | - | - | ang to sub-rnd | gran-peb-col | high | 11-Aug-10 | 110 | pebbles are ang-sub-ang, cobbles are sub-rnd |
| 89848 | 2010 | Regional | 530645 | 6315107 | 0.60 | soil | 3 | gy | - | - | - | ang to sub-rnd | gran-peb-col | high | 11-Aug-10 | 100 | pebbles and cobbles are both ang/sub-ang/ sub-rnd |
| 89849 | 2010 | Regional | 530873 | 6315228 | 0.50 | soil | 2 | med br-og | - | - | - | ang to sub-ang | gran-peb | mod | 11-Aug-10 | 80 | - |
| 89850 | 2010 | Regional | 530914 | 6315248 | 0.30 | soil | 4 | blk-gy | - | - | - | ang | gran-peb | high | 11-Aug-10 | 80 | - |
| 89851 | 2010 | Regional | 530954 | 6315291 | 0.20 | soil | 2 | med br | - | - | - | ang | gran-peb-col | high | 10-Aug-10 | 95 | - |
| 89852 | 2010 | Regional | 531005 | 6315312 | 0.20 | soil | 3 | gy | - | - | - | ang | gran-peb | mod | 10-Aug-10 | 120 | - |
| 89853 | 2010 | Regional | 531042 | 6315329 | 0.40 | soil | 2 | med br | - | - | - | ang to sub-ang | gran-peb | mod | 10-Aug-10 | 100 | - |
| 89854 | 2010 | Regional | 531082 | 6315356 | 0.30 | soil | 2 | og-gy-br | - | - | - | - | gran | high | 10-Aug-10 | 90 | - |
| 89855 | 2010 | Regional | 538858 | 6316993 | 0.30 | soil | 3 | gy-br | - | - | - | ang | gran-peb-col | low | 12-Aug-10 | 110 | - |
| 89856 | 2010 | Regional | 538815 | 6316971 | 0.40 | soil | 3 | med br | - | - | - | sub-rnd to ang | grit-gran-peb | low | 12-Aug-10 | 100 | - |
| 89857 | 2010 | Regional | 538774 | 6316944 | 0.20 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 90 | - |
| 89858 | 2010 | Regional | 538732 | 6316919 | 0.40 | soil | 3 | med br | - | - | - | sub-ang | grit-peb | mod | 12-Aug-10 | 110 | - |
| 89859 | 2010 | Regional | 538685 | 6316893 | 0.30 | soil | 3 | gy-br | - | - | - | - | grit-gran | high | 12-Aug-10 | 100 | - |
| 89860 | 2010 | Regional | 538639 | 6316871 | 0.30 | soil | 2 | med br | - | - | - | - | gran | high | 12-Aug-10 | 90 | - |
| 89861 | 2010 | Regional | 538598 | 6316846 | 0.40 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 80 | - |
| 89862 | 2010 | Regional | 538555 | 6316820 | 0.40 | soil | 2 | med br | - | - | - | ang | gran-peb-col | high | 12-Aug-10 | 70 | - |
| 89863 | 2010 | Regional | 538505 | 6316792 | 0.30 | soil | 2 | med br | - | - | - | sub-ang | gran-peb | mod | 12-Aug-10 | 100 | - |
| 89864 | 2010 | Regional | 538466 | 6316767 | 0.40 | soil | 2 | med br | - | - | - | sub-rnd | grit/gran-peb | high | 12-Aug-10 | 80 | - |
| 89865 | 2010 | Regional | 538421 | 6316738 | 0.30 | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | high | 12-Aug-10 | 100 | - |
| 89866 | 2010 | Regional | 538377 | 6316720 | 0.40 | soil | 2 | med br | - | - | - | sub-rnd | grit-peb | high | 12-Aug-10 | 80 | - |
| 89867 | 2010 | Regional | 538333 | 6316695 | 0.30 | soil | 2 | med br | - | - | - | sub-ang to rnd | grit-gran-col | high | 12-Aug-10 | 70 | - |
| 89868 | 2010 | Regional | 538296 | 6316676 | 0.40 | soil | 3 | blk-br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 60 | - |
| 89869 | 2010 | Regional | 538246 | 6316640 | 0.40 | soil | 2 | gy | - | - | - | ang | gran-peb | high | 12-Aug-10 | 60 | - |
| 89870 | 2010 | Regional | 538191 | 6316631 | 0.30 | soil | 3 | med br | - | - | - | - | gran | low | 12-Aug-10 | 9 | - |
| 89871 | 2010 | Regional | 538157 | 6316611 | 0.30 | soil | 2 | med br | - | - | - | ang | gran-peb | mod | 12-Aug-10 | 80 | - |
| 89872 | 2010 | Regional | 538066 | 6316563 | 0.45 | soil | 2 | med br | - | - | - | - | gran | high | 12-Aug-10 | 90 | - |
| 89873 | 2010 | Regional | 538025 | 6316539 | 0.20 | soil | 2 | med br | - | - | - | sub-ang | grit-cob | high | 12-Aug-10 | 50 | - |
| 89874 | 2010 | Regional | 537973 | 6316508 | 0.45 | soil | 2 | med br | - | - | - | - | grit-gran | high | 12-Aug-10 | 120 | - |
| 89875 | 2010 | Regional | 537937 | 6316483 | - | soil | 2 | med br | - | - | - | rnd | gran-peb | high | 12-Aug-10 | 100 | - |
| 89876 | 2010 | Regional | 537904 | 6316456 | 0.40 | soil | 3 | dk br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 60 | - |
| 89877 | 2010 | Regional | 537845 | 6316431 | 0.50 | soil | 4 | dk br | - | - | - | - | grit | high | 12-Aug-10 | 60 | - |
| 89878 | 2010 | Regional | 537763 | 6316388 | 0.30 | soil | 2 | med br | - | - | - | - | grit-gran | high | 12-Aug-10 | 75 | - |
| 89879 | 2010 | Regional | 537722 | 6316358 | 0.30 | soil | 2 | dk br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 76 | peb are big |
| 89880 | 2010 | Regional | 537682 | 6316332 | 0.50 | soil | 3 | med to dk br | - | - | - | - | gran | high | 12-Aug-10 | 90 | - |
| 89881 | 2010 | Regional | 537637 | 6316311 | 0.30 | soil | 3 | med gy-br | - | - | - | ang to sub-ang | gran-peb-col | high | 12-Aug-10 | 100 | - |
| 89882 | 2010 | Regional | 537599 | 6316282 | 0.50 | soil | 3 | blk-br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 45 | - |
| 89883 | 2010 | Regional | 537553 | 6316261 | 0.60 | soil | 3 | gy-br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 50 | - |
| 89884 | 2010 | Regional | 537415 | 6316173 | 0.45 | soil | 4 | dk gy-br | - | - | - | - | grit | high | 12-Aug-10 | 50 | - |
| 89885 | 2010 | Regional | 537369 | 6316139 | 0.25 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 60 | - |
| 89886 | 2010 | Regional | 537333 | 6316116 | 0.20 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 70 | - |
| 89887 | 2010 | Regional | 537291 | 6316098 | 0.50 | soil | 2 | med to dk br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 60 | - |
| 89888 | 2010 | Regional | 537204 | 6316050 | 0.50 | soil | 3 | dk br | - | - | - | - | grit | mod | 12-Aug-10 | 50 | - |
| 89889 | 2010 | Regional | 537155 | 6316018 | 0.30 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 12-Aug-10 | 90 | - |
| 89890 | 2010 | Regional | 537096 | 6315970 | 0.30 | soil | 3 | med br | - | - | - | ang | grit-peb | mod | 12-Aug-10 | 90 | - |
| 89891 | 2010 | Regional | 537043 | 6315939 | 0.50 | soil | 2 | dk br | - | - | - | - | gran | high | 12-Aug-10 | 110 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|----------------|------|---------|-----------------------|---------------------------|---------------|----------|-----------|-----|--------------------------------------|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 89892 | 2010 | Regional | 536787 | 6316441 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang to sub-rnd | gran-peb-cob | - | 12-Aug-10 | -1 | Pebbles are sub-ang, cob are sub-rnd |
| 89893 | 2010 | Regional | 536834 | 6316464 | - | soil | 2 | og-br | - | - | - | sub-rnd | gran-peb | mod | 12-Aug-10 | 120 | - |
| 89894 | 2010 | Regional | 536919 | 6316518 | 0.50 | soil | 2 | med og-br | - | - | - | sub-ang | gran-peb | high | 12-Aug-10 | 120 | - |
| 89895 | 2010 | Regional | 536971 | 6316546 | 0.60 | soil | 4 | med br | - | - | - | - | gran | high | 12-Aug-10 | 80 | - |
| 89896 | 2010 | Regional | 537010 | 6316570 | 0.50 | soil | 2 | blk-br | - | - | - | ang | grit-gran-peb | high | 13-Aug-10 | 90 | - |
| 89897 | 2010 | Regional | 537055 | 6316593 | 0.40 | soil | 2 | blk-br | - | - | - | ang | grit-gran-peb | high | 13-Aug-10 | 80 | - |
| 89898 | 2010 | Regional | 537089 | 6316614 | 0.30 | soil | 2 | dk br | - | - | - | ang | grit-peb | high | 13-Aug-10 | 70 | pebbles are flat |
| 89899 | 2010 | Regional | 537137 | 6316642 | 0.50 | soil | 3 | med to dk br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 90 | - |
| 89900 | 2010 | Regional | 537202 | 6316679 | 0.30 | soil | 3 | br | - | - | - | ang | gran-peb | high | 13-Aug-10 | 60 | - |
| 89901 | 2010 | Regional | 537040 | 6306707 | 0.45 | soil | 4 | gy-br | - | - | - | ang | grit-gran-peb | low | 5-Aug-10 | 70 | - |
| 89902 | 2010 | Regional | 537180 | 6306782 | 0.20 | soil | 3 | dk br | - | - | - | ang | gran-cob | high | 5-Aug-10 | 115 | - |
| 89903 | 2010 | Regional | 537211 | 6306806 | 0.25 | soil | 2 | og-br | - | - | - | sub-rnd | gran-cob | mod | 5-Aug-10 | 130 | - |
| 89904 | 2010 | Regional | 537263 | 6306823 | 0.20 | soil | 2 | med br | - | - | - | rnd to sub-rnd to sub-ang | gran-peb | low | 5-Aug-10 | 100 | pebbles are flat and big |
| 89905 | 2010 | Regional | 537292 | 6306857 | 0.40 | soil | 5 | med blk-br | - | - | - | sub-rnd to rnd | gran-peb | high | 5-Aug-10 | 100 | - |
| 89906 | 2010 | Regional | 537436 | 6306930 | 0.25 | soil | 2 | og-br | - | - | - | ang to sub-ang | gran-peb | high | 8-Aug-10 | 75 | - |
| 89907 | 2010 | Regional | 537471 | 6306951 | 0.25 | soil | 2 | og-gy-br | - | - | - | - | grit-gran | high | 8-Aug-10 | 80 | - |
| 89908 | 2010 | Regional | 537510 | 6306981 | 0.30 | soil | 2 | og-br | - | - | - | sub-rnd | grit-peb | mod | 8-Aug-10 | 100 | - |
| 89909 | 2010 | Regional | 537556 | 6307009 | 0.30 | soil | 2 | og-br | - | - | - | ang | grit-peb | mod | 8-Aug-10 | 120 | - |
| 89910 | 2010 | Regional | 537603 | 6307026 | 0.40 | soil | 2 | med og-br | - | - | - | sub-rnd to sub-ang | gran-peb | mod | 8-Aug-10 | 10 | pebbles are big |
| 89911 | 2010 | Regional | 537647 | 6307047 | 0.30 | soil | 2 | med to dk br | - | - | - | sub-ang to ang | gran-peb | high | 8-Aug-10 | 90 | - |
| 89912 | 2010 | Regional | 537691 | 6307074 | 0.2-0.4 | soil | 2 | og-r to br | - | - | - | sub-ang to sub-rnd | gran-peb | high | 8-Aug-10 | 110 | - |
| 89913 | 2010 | Regional | 537736 | 6307097 | 0.40 | soil | 2 | og-br | - | - | - | ang to sub-ang | grit-gran-peb | high | 8-Aug-10 | 120 | - |
| 89914 | 2010 | Regional | 537781 | 6307124 | 0.50 | soil | 3 | med to dk br | - | - | - | rnd | grit-peb | high | 8-Aug-10 | 100 | - |
| 89915 | 2010 | Regional | 537826 | 6307147 | 0.40 | soil | 2 | med og-br | - | - | - | ang | gran-peb | mod | 8-Aug-10 | 115 | pebbles are flat |
| 89916 | 2010 | Regional | 537865 | 6307172 | 0.35 | soil | 2 | og-gy-br | - | - | - | ang | gran-peb | mod | 8-Aug-10 | 110 | - |
| 89917 | 2010 | Regional | 537987 | 6307244 | 0.35 | soil | 4 | dk gy-br | - | - | - | ang | grit-peb | high | 8-Aug-10 | 80 | - |
| 89918 | 2010 | Regional | 538029 | 6307273 | 0.35 | soil | 3 | med br | - | - | - | sub-ang | gran-peb | mod | 8-Aug-10 | 70 | - |
| 89919 | 2010 | Regional | 538069 | 6307296 | 0.20 | soil | 2 | lt br-og | - | - | - | sub-rnd | gran-peb | mod | 8-Aug-10 | 115 | pebbles are flat |
| 89920 | 2010 | Regional | 538115 | 6307316 | 0.30 | soil | 2 | med br | - | - | - | - | gran-peb | high | 8-Aug-10 | 90 | pebbles are flat |
| 89921 | 2010 | Regional | 538161 | 6307349 | 0.50 | soil | 3 | med gy-br | - | - | - | ang to sub-ang | grit-peb | low | 8-Aug-10 | 90 | - |
| 89922 | 2010 | Regional | 538206 | 6307379 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang | gran-peb | low | 8-Aug-10 | 110 | - |
| 89923 | 2010 | Regional | 538247 | 6307393 | 0.30 | soil | 3 | med to dk br | - | - | - | sub-rnd to sub-ang | gran-cob | low | 8-Aug-10 | 90 | - |
| 89924 | 2010 | Regional | 538328 | 6307452 | 0.45 | soil | 4 | med br | - | - | - | ang | grit-cob | high | 8-Aug-10 | 90 | cobbles are flat |
| 89925 | 2010 | Regional | 538371 | 6307469 | 0.20 | soil | 2 | og-br | - | - | - | sub-ang to sub-rnd | gran-peb | low | 8-Aug-10 | 130 | - |
| 89926 | 2010 | Regional | 538418 | 6307492 | 0.30 | soil | 2 | pale to med br | - | - | - | sub-rnd | gran-peb | low | 8-Aug-10 | 130 | - |
| 89927 | 2010 | Regional | 538462 | 6307518 | 0.30 | soil | 2 | og-br to gy-br | - | - | - | ang | gran-peb | high | 8-Aug-10 | 140 | - |
| 89928 | 2010 | Regional | 538506 | 6307541 | 0.30 | soil | 2 | lt br-og | - | - | - | - | grit | none | 8-Aug-10 | 110 | - |
| 89929 | 2010 | Regional | 538640 | 6307618 | 0.30 | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | low | 8-Aug-10 | 130 | - |
| 89930 | 2010 | Regional | 538676 | 6307638 | 0.20 | soil | 5 | gy-br | - | - | - | - | none | none | 8-Aug-10 | 130 | - |
| 89931 | 2010 | Regional | 538811 | 6307722 | - | soil | 3 | bg-br | - | - | - | - | none | low | 8-Aug-10 | 158 | - |
| 89932 | 2010 | Regional | 538890 | 6307768 | 0.40 | soil | 2 | med br | - | - | - | ang | grit-peb | high | 8-Aug-10 | 100 | - |
| 89933 | 2010 | Regional | 538935 | 6307794 | 0.50 | soil | 3 | og-br | - | - | - | - | none | low | 8-Aug-10 | 140 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|-----------------|------|---------|-----------------------|---------|---------------|----------|-----------|-----|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 89934 | 2010 | Regional | 539016 | 6307843 | 0.20 | soil | 3 | med to dk br | - | - | - | - | none | mod | 8-Aug-10 | 260 | - |
| 89935 | 2010 | Regional | 539064 | 6307870 | 0.25 | soil | 3 | lt br | - | - | - | sub-ang | grit-peb | mod | 8-Aug-10 | 140 | - |
| 89936 | 2010 | Off Grid | 535740 | 6313886 | 0.50 | soil | 3 | - | - | - | - | - | - | - | 5-Aug-10 | 990 | big glim (bio) patches, some bigger clasts, pych (~2%, anhedral), ap (minor), one amph grains in heavy concentration, 990 CPS (bag) |
| 89937 | 2010 | Regional | 532811 | 6315538 | 0.40 | soil | 3 | med to lt br | - | - | - | ang | gran-peb | high | 10-Aug-10 | 114 | - |
| 89938 | 2010 | Regional | 532762 | 6315518 | 0.40 | soil | 2 | med br | - | - | - | - | grit | low | 10-Aug-10 | 110 | - |
| 89939 | 2010 | Regional | 532712 | 6315498 | 0.40 | soil | 2 | og-gy-br | - | - | - | - | grit | low | 10-Aug-10 | 110 | pebbles are small |
| 89940 | 2010 | Regional | 532669 | 6315477 | 0.40 | soil | 2 | lt br | - | - | - | - | grit | none | 10-Aug-10 | 115 | - |
| 89941 | 2010 | Regional | 532626 | 6315453 | 0.40 | soil | 3 | og-bg-br | - | - | - | - | grit | low | 10-Aug-10 | 210 | - |
| 89942 | 2010 | Regional | 532580 | 6315413 | 0.15 | soil | 2 | og-br to med br | - | - | - | sub-rnd | grit-cob | mod | 10-Aug-10 | 140 | - |
| 89943 | 2010 | Regional | 532538 | 6315400 | 0.50 | soil | 2 | og-br | - | - | - | - | gran | mod | 10-Aug-10 | 150 | - |
| 89944 | 2010 | Regional | 532495 | 6315371 | 0.40 | soil | 2 | med br | - | - | - | ang | grit-peb | mod | 10-Aug-10 | 200 | - |
| 89945 | 2010 | Regional | 532449 | 6315352 | 0.40 | soil | 2 | og and p-gy br | - | - | - | sub-ang | grit-gran-cob | high | 10-Aug-10 | 190 | - |
| 89946 | 2010 | Regional | 532419 | 6315326 | 0.15 | soil | 2 | og-br | - | - | - | ang | grit-peb | mod | 10-Aug-10 | 170 | - |
| 89947 | 2010 | Regional | 532376 | 6315307 | 0.40 | soil | 3 | med br | - | - | - | - | grit-gran | low | 10-Aug-10 | 120 | - |
| 89948 | 2010 | Regional | 532315 | 6315277 | 0.20 | soil | 2 | med br-og | - | - | - | ang | gran-peb | high | 10-Aug-10 | 100 | - |
| 89949 | 2010 | Regional | 532282 | 6315247 | 0.20 | soil | 2 | med br | - | - | - | sub-rnd | gran-peb | mod | 10-Aug-10 | 90 | - |
| 89950 | 2010 | Regional | 532245 | 6315229 | 0.20 | soil | 3 | og-br | - | - | - | sub-ang | gran-peb | mod | 10-Aug-10 | 120 | pebbles are very small |
| 89951 | 2010 | Regional | 531665 | 6315769 | 0.20 | soil | 4 | lt br-gy | - | - | - | sub-rnd | peb | mod | 9-Aug-10 | -1 | - |
| 89952 | 2010 | Regional | 531749 | 6315755 | 0.10 | soil | 4 | med gy | - | - | few | ang | peb | low | 9-Aug-10 | -1 | - |
| 89953 | 2010 | Regional | 531786 | 6315772 | 0.30 | soil | 3 | med gy | - | - | abnt | ang | peb-cob | mod | 9-Aug-10 | -1 | - |
| 89954 | 2010 | Regional | 531833 | 6315803 | 0.30 | soil | 3 | br-gy | - | - | mod | sub-ang | peb | low | 9-Aug-10 | -1 | - |
| 89955 | 2010 | Regional | 531879 | 6315826 | 0.40 | soil | 4 | dk br | - | - | none | - | - | high | 9-Aug-10 | -1 | - |
| 89956 | 2010 | Regional | 531923 | 6315851 | 0.40 | soil | 3 | dk br | - | - | abnt | sub-ang | grains-peb | mod | 9-Aug-10 | -1 | - |
| 89957 | 2010 | Regional | 531970 | 6315873 | 0.45 | soil | 5 | dk br | - | - | none | - | - | abnt | 9-Aug-10 | -1 | - |
| 89958 | 2010 | Regional | 532018 | 6315902 | 0.30 | soil | 4 | med tan-br | - | - | none | - | - | low | 9-Aug-10 | -1 | clayish |
| 89959 | 2010 | Regional | 532059 | 6315922 | 0.30 | soil | 3 | med br | - | - | mod | sub-ang | peb | mod | 9-Aug-10 | -1 | - |
| 89960 | 2010 | Regional | 532103 | 6315949 | 0.20 | soil | 2 | lt br | - | - | mod | sub-ang | grains-peb | low | 9-Aug-10 | -1 | - |
| 89961 | 2010 | Regional | 532145 | 6315976 | 0.40 | soil | 3 | lt gy | - | - | mod | - | grains | mod | 9-Aug-10 | -1 | - |
| 89962 | 2010 | Regional | 532185 | 6316000 | 0.40 | soil | 4 | dk br | - | - | abnt | ang | grains | mod | 9-Aug-10 | -1 | - |
| 89963 | 2010 | Regional | 532229 | 6316025 | 0.50 | soil | 3 | dk br | - | - | none | - | - | high | 9-Aug-10 | -1 | - |
| 89964 | 2010 | Regional | 532271 | 6316051 | 0.20 | soil | 3 | med br | - | - | abnt | ang | grains | mod | 9-Aug-10 | -1 | - |
| 89965 | 2010 | Regional | 532311 | 6316070 | 0.30 | soil | 3 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89966 | 2010 | Regional | 532354 | 6316102 | 0.20 | soil | 4 | lt br | - | - | none | - | - | low | 9-Aug-10 | -1 | clayish, dug from uprooted tree |
| 89967 | 2010 | Regional | 532395 | 6316115 | 0.30 | soil | 4 | lt br | - | - | none | - | - | low | 9-Aug-10 | -1 | clayish |
| 89968 | 2010 | Regional | 532443 | 6316155 | 0.20 | soil | 4 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89969 | 2010 | Regional | 532485 | 6316173 | 0.20 | soil | 2 | lt br | - | - | abnt | ang | grains | mod | 9-Aug-10 | -1 | - |
| 89970 | 2010 | Regional | 532528 | 6316193 | 0.30 | soil | 3 | lt gy | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89971 | 2010 | Regional | 532578 | 6316224 | 0.30 | soil | 3 | lt gy | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89972 | 2010 | Regional | 532621 | 6316252 | 0.30 | soil | 3 | lt og-br | - | - | mod | ang | grains | low | 9-Aug-10 | -1 | - |
| 89973 | 2010 | Regional | 532661 | 6316285 | 0.30 | soil | 3 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89974 | 2010 | Regional | 532703 | 6316309 | 0.30 | soil | 3 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89975 | 2010 | Regional | 532749 | 6316332 | 0.30 | soil | 3 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |

Appendix 6a: (continued)

| Sample | Year Collected | Expl_Grid | Easting N83Z19 | Northing N83Z19 | Depth (m) | Material | Wet* | Colour | Size | Sorting | Clast characteristics | | | Organics | Date | CPS | Comments |
|--------|----------------|-----------|----------------|-----------------|-----------|----------|------|--------------|------|---------|-----------------------|--------------------|---------------|-----------|-----------|---|---|
| | | | | | | | | | | | Abundance | Shape | Size (cm) | | dd/mm/yy | | |
| 89976 | 2010 | Off Grid | 537398 | 6313005 | 0.50 | soil | 3 | rusty br | - | - | few | sub-ang | - | common | 5-Aug-10 | 2600 | From TR10-017C, 2000 cps in trench, 2600cps, 350 CPS (bag) |
| 89977 | 2010 | Regional | 532792 | 6316357 | 0.30 | soil | 4 | lt br | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89978 | 2010 | Regional | 532838 | 6316385 | 0.30 | soil | 2 | lt br | - | - | none | - | - | low | 9-Aug-10 | -1 | - |
| 89979 | 2010 | Regional | 533027 | 6315665 | 0.20 | soil | 4 | med gy | - | - | none | - | - | mod | 9-Aug-10 | -1 | - |
| 89980 | 2010 | Regional | 532992 | 6315636 | 0.40 | soil | 5 | dk gy | - | - | few | sub-ang | peb | high | 9-Aug-10 | -1 | - |
| 89981 | 2010 | Regional | 532941 | 6315620 | 0.30 | soil | 3 | med br | - | - | mod | sub-ang | peb | low | 9-Aug-10 | -1 | - |
| 89982 | 2010 | Regional | 532898 | 6315586 | 0.30 | soil | 3 | med br | - | - | few | - | grains | mod | 9-Aug-10 | -1 | - |
| 89983 | 2010 | Regional | 532851 | 6315572 | 0.30 | soil | 3 | dk br | - | - | abnt | sub-ang | peb | mod | 9-Aug-10 | -1 | - |
| 89984 | 2010 | Regional | 532198 | 6315194 | 0.25 | soil | 2 | og-br | - | - | - | ang to sub-ang | gran-peb | mod | 10-Aug-10 | 115 | - |
| 89985 | 2010 | Regional | 532159 | 6315175 | 0.40 | soil | 2 | og-br | - | - | - | ang | grit-gran-peb | mod | 10-Aug-10 | 130 | - |
| 89986 | 2010 | Regional | 532118 | 6315151 | 0.40 | soil | 2 | - | - | - | rnd-ang | grit-gran-peb | mod | 10-Aug-10 | 130 | - | |
| 89987 | 2010 | Regional | 532074 | 6315124 | 0.25 | soil | 2 | med br | - | - | - | ang | gran-peb | mod | 10-Aug-10 | 150 | - |
| 89988 | 2010 | Regional | 532030 | 6315099 | 0.20 | soil | 2 | gy | - | - | - | sub-ang | grit-cob | high | 10-Aug-10 | 130 | - |
| 89989 | 2010 | Regional | 531988 | 6315072 | 0.30 | soil | 3 | gy-br | - | - | none | - | - | mod | 10-Aug-10 | 110 | - |
| 89990 | 2010 | Regional | 531936 | 6315032 | 0.20 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 10-Aug-10 | 110 | - |
| 89991 | 2010 | Regional | 531905 | 6315012 | 0.20 | soil | 4 | gy-bg | - | - | none | - | - | low | 10-Aug-10 | 115 | - |
| 89992 | 2010 | Regional | 531811 | 6314963 | 0.50 | soil | 3 | blk-gy-br | - | - | none | - | - | high | 10-Aug-10 | 130 | - |
| 89993 | 2010 | Regional | 531772 | 6314936 | 0.30 | soil | 4 | med br | - | - | - | sub-rnd to sub-ang | gran-peb-cob | low | 10-Aug-10 | 130 | peb are sub-rnd, and cob are sub-ang |
| 89994 | 2010 | Regional | 531731 | 6314907 | 0.40 | soil | 3 | gy-br | - | - | - | rnd | gran-cob | high | 10-Aug-10 | 100 | - |
| 89995 | 2010 | Regional | 531608 | 6314837 | 0.10 | soil | 3 | pk-gy-br | - | - | - | ang | gran-peb | high | 10-Aug-10 | 130 | - |
| 89996 | 2010 | Regional | 531565 | 6314815 | 0.40 | soil | 3 | med br | - | - | - | ang | gran-peb | high | 10-Aug-10 | -1 | - |
| 89997 | 2010 | Regional | 531522 | 6314787 | 0.45 | soil | 3 | med to dk br | - | - | - | ang | grit-gran-peb | high | 10-Aug-10 | 90 | - |
| 89998 | 2010 | Regional | 531482 | 6314763 | 0.40 | soil | 2 | med br | - | - | - | ang | gran-peb | low | 10-Aug-10 | 80 | - |
| 89999 | 2010 | Regional | 531435 | 6314740 | 0.30 | soil | 2 | med br | - | - | - | ang | gran-peb | high | 10-Aug-10 | 80 | - |
| 90000 | 2010 | Regional | 531390 | 6314716 | 0.30 | soil | 2 | med br | - | - | - | ang to sub-rnd | gran-peb | high | 10-Aug-10 | 80 | - |
| 87755 | 2010 | Regional | 538017 | 6308428 | - | soil | - | - | - | - | - | - | - | 4-Aug-10 | -1 | SAMPLE IS VOID; no assay received for this sample | |
| 87764 | 2010 | Regional | 537512 | 6308135 | - | soil | - | - | - | - | - | - | - | 4-Aug-10 | -1 | no assay received for this sample | |
| 87765 | 2010 | Regional | 537462 | 6308114 | - | soil | - | - | - | - | - | - | - | 4-Aug-10 | -1 | no assay received for this sample | |
| 89738 | 2010 | Regional | 537162 | 6317167 | 0.50 | soil | 3 | dk gy-br | - | - | - | sub-ang | gran-peb | high | 15-Aug-10 | 70 | no assay received for this sample |
| 89789 | 2010 | Off Grid | 537830 | 6310584 | 0.30 | soil | 2 | br | - | - | - | - | - | - | 22-Aug-10 | 1100 | brown soil on 1100 CPS rock, some sand, sill? sample book page for 89807 missing; assume assay recorded as 89807 is actually 89808 |
| 89807 | 2010 | Regional | 531049 | 6314511 | 0.20 | soil | 2 | gy-og-br | - | - | - | ang to sub-ang | gran-cob | mod | 10-Aug-10 | 100 | no assay received for this sample; assume description is for 89807 |
| 89808 | 2010 | Regional | 531049 | 6314511 | 0.20 | soil | 2 | gy-og-br | - | - | - | ang-sub ang | gran-cob | mod | 10-Aug-10 | 100 | no assay received for this sample; assume description is for 89807 |

APPENDIX 6B: 2010 AND 2011 SOIL SAMPLE ANALYTICAL CERTIFICATES



Date Submitted: 27-Aug-10
Invoice No.: A10-5388
Invoice Date: 28-Sep-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

680 Soil samples were submitted for analysis.

The following analytical package was requested: Code UT-6-Dahrouge Total Digestion ICP & ICP/MS

REPORT **A10-5388**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87501 | 7 | 23.9 | 2.64 | 1.73 | 8.37 | 1.42 | 2.24 | 0.1 | 18 | 119 | 646 | 5.99 | 1.4 | 67.6 | 1.6 | 1.7 | 0.6 | 0.09 | 1.35 | 30.7 | 1.22 | < 0.02 | 0.6 | 56.0 |
| 87502 | < 5 | 15.7 | > 3.00 | 1.97 | 9.41 | 0.64 | 2.91 | 0.3 | 13 | 107 | 771 | 6.60 | 0.8 | 39.6 | 1.4 | 1.5 | 0.5 | 0.08 | 1.03 | 29.3 | 1.13 | < 0.02 | 0.6 | 63.9 |
| 87503 | < 5 | 20.5 | 2.13 | 1.76 | 6.78 | 1.60 | 2.97 | 0.2 | 38 | 187 | 678 | 4.51 | 1.8 | 67.3 | 1.5 | 1.4 | 0.6 | 0.06 | 1.52 | 19.8 | 1.07 | < 0.02 | 0.6 | 59.3 |
| 87504 | 6 | 22.6 | 2.57 | 1.92 | 8.12 | 1.99 | 2.61 | 0.2 | 53 | 171 | 664 | 5.06 | 3.0 | 72.2 | 1.9 | 1.5 | 0.7 | 0.08 | 1.53 | 20.7 | 1.25 | < 0.02 | 0.8 | 62.0 |
| 87505 | < 5 | 22.9 | 2.52 | 2.01 | 8.31 | 1.81 | 2.22 | 0.2 | 41 | 207 | 554 | 5.02 | 1.8 | 71.5 | 1.4 | 1.4 | 0.5 | 0.07 | 1.83 | 22.1 | 1.03 | < 0.02 | 0.5 | 61.4 |
| 87506 | 9 | 20.3 | 2.56 | 1.69 | 6.00 | 1.63 | 2.07 | < 0.1 | 79 | 184 | 659 | 4.58 | 3.4 | 63.1 | 1.3 | 1.3 | 0.5 | < 0.05 | 1.10 | 21.4 | 0.79 | < 0.02 | 0.6 | 54.7 |
| 87507 | 10 | 22.8 | 2.85 | 1.95 | 8.75 | 2.16 | 2.43 | 0.2 | 43 | 175 | 801 | 5.82 | 2.9 | 65.1 | 1.8 | 1.5 | 0.7 | 0.08 | 1.46 | 26.8 | 1.35 | < 0.02 | 0.5 | 77.1 |
| 87508 | 14 | 24.6 | 2.66 | 2.07 | 8.21 | 2.37 | 2.60 | 0.1 | 54 | 181 | 743 | 4.84 | 2.9 | 65.4 | 1.6 | 1.5 | 0.6 | 0.07 | 1.76 | 19.1 | 1.22 | < 0.02 | 0.5 | 64.3 |
| 87509 | < 5 | 20.8 | 2.81 | 1.94 | 9.01 | 1.05 | 2.61 | 0.2 | 16 | 86.7 | 885 | 6.46 | 0.4 | 50.2 | 1.7 | 1.6 | 0.6 | 0.05 | 0.78 | 32.2 | 1.31 | < 0.02 | 0.4 | 62.9 |
| 87510 | < 5 | 19.9 | 2.51 | 1.69 | 7.66 | 1.98 | 2.02 | 0.1 | 21 | 156 | 592 | 5.20 | 0.3 | 65.8 | 1.5 | 1.3 | 0.6 | 0.07 | 1.54 | 17.0 | 1.18 | < 0.02 | 0.3 | 51.3 |
| 87511 | 8 | 22.9 | > 3.00 | 1.82 | 8.99 | 2.23 | 2.26 | 0.1 | 37 | 143 | 838 | 5.52 | 2.1 | 61.3 | 1.7 | 1.9 | 0.6 | 0.07 | 1.60 | 20.7 | 1.40 | < 0.02 | 0.9 | 57.2 |
| 87512 | < 5 | 23.1 | 2.55 | 1.48 | 8.35 | 1.66 | 2.03 | 0.2 | 23 | 154 | 564 | 5.65 | 1.9 | 52.5 | 1.5 | 1.6 | 0.5 | 0.11 | 1.36 | 19.0 | 1.10 | < 0.02 | 0.3 | 50.2 |
| 87513 | 7 | 21.7 | 2.91 | 1.64 | 8.73 | 2.18 | 2.14 | 0.1 | 38 | 146 | 680 | 4.99 | 3.0 | 53.1 | 1.7 | 1.4 | 0.6 | 0.07 | 1.48 | 16.5 | 1.24 | < 0.02 | 0.7 | 54.3 |
| 87514 | 7 | 20.3 | 2.63 | 1.36 | 8.44 | 1.83 | 1.96 | 0.1 | 27 | 114 | 542 | 4.60 | 2.4 | 44.8 | 1.4 | 1.5 | 0.5 | 0.08 | 1.21 | 17.4 | 1.03 | < 0.02 | 0.4 | 46.5 |
| 87515 | 8 | 14.1 | 2.85 | 1.00 | 7.92 | 2.14 | 1.59 | < 0.1 | 12 | 102 | 389 | 3.77 | 2.9 | 28.9 | 1.2 | 1.2 | 0.4 | 0.05 | 1.10 | 9.6 | 0.89 | < 0.02 | 0.4 | 36.4 |
| 87516 | 11 | 14.1 | 2.87 | 0.87 | 5.82 | 1.98 | 1.41 | 0.1 | 45 | 124 | 378 | 3.55 | 4.9 | 27.8 | 0.9 | 1.3 | 0.3 | < 0.05 | 0.93 | 9.2 | 0.51 | < 0.02 | 0.4 | 35.9 |
| 87517 | 8 | 20.5 | 2.45 | 1.74 | 7.91 | 1.75 | 1.84 | 0.1 | 38 | 145 | 664 | 5.11 | 3.0 | 57.4 | 1.4 | 1.4 | 0.5 | 0.07 | 1.34 | 24.0 | 0.96 | < 0.02 | 0.5 | 56.1 |
| 87518 | < 5 | 24.5 | 2.91 | 1.85 | 9.55 | 0.42 | 2.72 | 0.1 | 26 | 68.3 | 1020 | 7.48 | 0.3 | 38.8 | 1.7 | 1.6 | 0.7 | < 0.05 | 0.69 | 34.5 | 1.52 | < 0.02 | 0.4 | 54.2 |
| 87519 | 5 | 24.6 | 2.18 | 1.97 | 7.67 | 1.78 | 2.65 | 0.1 | 52 | 179 | 617 | 5.06 | 0.5 | 73.4 | 1.9 | 1.3 | 0.7 | 0.09 | 1.71 | 21.0 | 1.38 | < 0.02 | 0.7 | 69.7 |
| 87520 | < 5 | 16.8 | 2.70 | 1.55 | 8.62 | 1.47 | 1.99 | 0.2 | 11 | 91.6 | 683 | 5.76 | 0.5 | 48.4 | 1.6 | 1.4 | 0.6 | 0.12 | 1.42 | 25.9 | 1.26 | < 0.02 | 0.5 | 47.0 |
| 87521 | < 5 | 25.4 | 2.92 | 2.01 | > 10.0 | 1.38 | 2.24 | 0.2 | 22 | 110 | 736 | 7.19 | 1.0 | 63.5 | 1.5 | 1.7 | 0.6 | 0.07 | 1.31 | 32.3 | 1.22 | < 0.02 | 0.5 | 65.3 |
| 87522 | 8 | 24.6 | 2.85 | 2.21 | 9.08 | 1.80 | 2.25 | 0.2 | 24 | 167 | 936 | 6.99 | 1.2 | 87.4 | 1.9 | 2.1 | 0.7 | 0.11 | 1.93 | 33.0 | 1.86 | < 0.02 | 0.5 | 84.7 |
| 87523 | < 5 | 17.2 | 2.53 | 1.68 | 8.10 | 1.55 | 1.85 | < 0.1 | 16 | 137 | 504 | 5.06 | 1.2 | 48.5 | 1.3 | 1.6 | 0.5 | 0.06 | 1.66 | 17.8 | 0.90 | < 0.02 | 0.2 | 48.2 |
| 87524 | 6 | 21.1 | 2.35 | 1.75 | 7.85 | 1.33 | 1.70 | < 0.1 | 23 | 166 | 494 | 6.20 | 1.5 | 50.0 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.50 | 20.0 | 0.90 | < 0.02 | 0.3 | 54.4 |
| 87525 | 6 | 20.0 | 2.85 | 1.81 | 8.31 | 2.03 | 2.09 | < 0.1 | 36 | 163 | 594 | 4.87 | 2.5 | 65.4 | 1.5 | 1.3 | 0.6 | 0.09 | 1.41 | 17.7 | 1.17 | < 0.02 | 0.2 | 51.3 |
| 87526 | 8 | 22.5 | 2.59 | 1.58 | 8.24 | 2.38 | 1.85 | < 0.1 | 26 | 105 | 570 | 4.44 | 1.6 | 50.0 | 1.5 | 1.5 | 0.5 | 0.08 | 1.77 | 16.2 | 1.11 | < 0.02 | 0.4 | 54.0 |
| 87527 | 41 | 20.0 | 2.69 | 1.78 | 7.22 | 2.03 | 1.85 | < 0.1 | 53 | 228 | 564 | 4.56 | 3.7 | 75.5 | 1.3 | 1.6 | 0.5 | < 0.05 | 1.42 | 18.3 | 0.93 | < 0.02 | 0.5 | 49.1 |
| 87528 | 6 | 10.3 | 2.35 | 1.22 | 7.03 | 1.48 | 2.52 | 0.4 | 13 | 96.7 | 386 | 3.63 | 1.8 | 41.6 | 1.4 | 1.4 | 0.5 | 0.16 | 1.67 | 14.3 | 1.15 | < 0.02 | 0.3 | 31.0 |
| 87529 | < 5 | 20.7 | > 3.00 | 2.12 | 9.31 | 1.92 | 2.59 | < 0.1 | 21 | 152 | 696 | 5.17 | 0.5 | 65.1 | 1.8 | 1.3 | 0.6 | < 0.05 | 1.46 | 20.9 | 1.33 | < 0.02 | 0.3 | 57.5 |
| 87530 | < 5 | 23.5 | 2.75 | 2.20 | 9.36 | 1.19 | 3.04 | < 0.1 | 20 | 173 | 846 | 6.11 | 0.6 | 83.5 | 2.1 | 1.6 | 0.8 | < 0.05 | 1.12 | 38.8 | 1.53 | < 0.02 | 0.5 | 62.4 |
| 87531 | < 5 | 23.8 | 2.87 | 2.25 | 9.77 | 1.69 | 2.77 | 0.1 | 23 | 129 | 909 | 6.28 | 1.1 | 78.2 | 2.2 | 1.6 | 0.8 | < 0.05 | 1.30 | 31.8 | 1.56 | < 0.02 | 0.5 | 61.2 |
| 87532 | < 5 | 22.2 | > 3.00 | 2.22 | 9.86 | 2.11 | 2.79 | < 0.1 | 35 | 179 | 738 | 5.47 | 1.9 | 72.6 | 1.8 | 1.7 | 0.7 | 0.06 | 1.58 | 21.8 | 1.21 | < 0.02 | 0.6 | 69.7 |
| 87533 | 5 | 20.2 | 2.84 | 1.54 | 9.17 | 1.42 | 3.57 | 0.3 | 32 | 165 | 847 | 5.51 | 2.1 | 72.1 | 2.1 | 1.5 | 0.7 | 0.12 | 0.96 | 29.0 | 1.48 | < 0.02 | 0.9 | 55.9 |
| 87534 | 6 | 21.4 | 2.39 | 1.89 | 7.73 | 1.70 | 2.87 | 0.1 | 55 | 200 | 690 | 6.36 | 2.5 | 67.4 | 1.8 | 1.4 | 0.6 | 0.08 | 1.54 | 19.4 | 1.13 | < 0.02 | 0.4 | 58.9 |
| 87535 | < 5 | 28.3 | > 3.00 | 3.03 | > 10.0 | 0.95 | 2.85 | 0.2 | 87 | 183 | 636 | 6.44 | 1.3 | 79.2 | 1.5 | 1.4 | 0.6 | < 0.05 | 1.14 | 40.1 | 1.08 | < 0.02 | 0.5 | 70.7 |
| 87536 | < 5 | 29.0 | 2.82 | 2.68 | 9.85 | 1.44 | 2.58 | 0.3 | 48 | 308 | 669 | 6.69 | 1.8 | 121 | 1.6 | 1.7 | 0.6 | 0.05 | 1.52 | 35.9 | 1.00 | < 0.02 | 0.6 | 68.1 |
| 87537 | < 5 | 28.0 | 2.87 | 2.81 | 9.83 | 1.35 | 2.53 | 0.3 | 13 | 246 | 655 | 6.52 | 0.6 | 117 | 1.5 | 1.4 | 0.6 | 0.07 | 1.49 | 34.3 | 0.99 | < 0.02 | 0.6 | 68.3 |
| 87538 | < 5 | 20.6 | 2.80 | 1.87 | 8.53 | 1.79 | 2.78 | 0.1 | 34 | 117 | 633 | 4.81 | 0.5 | 61.6 | 1.7 | 1.6 | 0.6 | 0.06 | 1.53 | 18.5 | 1.05 | < 0.02 | 0.6 | 62.9 |
| 87539 | < 5 | 21.0 | 2.44 | 1.99 | 8.06 | 1.76 | 2.41 | < 0.1 | 30 | 129 | 660 | 5.04 | 0.9 | 73.9 | 1.6 | 1.4 | 0.6 | 0.06 | 1.58 | 19.4 | 1.09 | < 0.02 | 0.6 | 54.1 |
| 87540 | < 5 | 25.3 | 2.99 | 2.59 | 9.31 | 1.40 | 2.67 | 0.1 | 36 | 335 | 826 | 6.41 | 1.5 | 115 | 2.2 | 1.6 | 0.8 | 0.05 | 1.76 | 34.6 | 1.73 | < 0.02 | 0.9 | 63.8 |
| 87541 | < 5 | 34.6 | 2.69 | 1.66 | 9.41 | 1.42 | 2.10 | 0.1 | 29 | 126 | 465 | 5.00 | 0.9 | 54.5 | 1.7 | 1.7 | 0.6 | 0.09 | 2.07 | 25.5 | 0.88 | < 0.02 | 0.7 | 66.3 |
| 87542 | < 5 | 26.1 | 2.34 | 1.59 | 8.28 | 1.79 | 1.33 | 0.1 | 33 | 183 | 443 | 5.60 | 2.0 | 59.9 | 1.5 | 1.6 | 0.5 | 0.05 | 2.29 | 22.6 | 0.81 | < 0.02 | 0.1 | 59.7 |
| 87543 | 12 | 19.2 | 1.48 | 1.83 | 6.64 | 1.33 | 3.64 | 0.4 | 87 | 212 | 1630 | 4.73 | 1.9 | 90.1 | 2.7 | 1.3 | 1.0 | 0.22 | 2.74 | 31.5 | 1.70 | < 0.02 | 2.2 | 87.3 |
| 87544 | < 5 | 24.6 | 2.54 | 1.94 | 8.82 | 1.10 | 3.57 | 0.1 | 42 | 163 | 635 | 5.51 | 1.4 | 64.0 | 2.4 | 1.5 | 0.9 | 0.14 | 1.98 | 30.9 | 1.33 | < 0.02 | 0.8 | 69.3 |
| 87545 | 15 | 35.1 | 2.26 | 2.23 | 6.74 | 0.98 | 2.62 | 0.1 | 148 | 312 | 634 | 6.88 | 3.5 | 77.4 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.15 | 34.6 | 0.52 | < 0.02 | 0.7 | 63.9 |
| 87546 | 11 | 15.6 | 2.52 | 1.38 | 7.72 | 1.51 | 1.63 | 0.1 | 47 | 137 | 499 | 4.57 | 3.2 | 41.2 | 1.5 | 1.4 | 0.5 | < 0.05 | 1.81 | 20.4 | 0.72 | < 0.02 | 0.5 | 49.8 |
| 87547 | < 5 | 34.3 | 1.76 | 1.85 | 9.44 | 0.25 | 3.91 | 0.1 | 57 | 56.1 | 1820 | 9.77 | 0.1 | 89.1 | 2.9 | 0.9 | 1.1 | 0.09 | 1.21 | 84.4 | 1.71 | < 0.02 | 1.1 | 78.5 |
| 87548 | < 5 | 23.2 | 2.27 | 1.69 | 8.84 | 1.63 | 2.04 | < 0.1 | 21 | 110 | 449 | 6.51 | 1.2 | 50.0 | 1.6 | 1.5 | 0.5 | < 0.05 | 2.40 | 17.3 | 0.80 | < 0.02 | 0.5 | 61.5 |
| 87549 | 6 | 29.8 | 2.17 | 1.99 | 7.52 | 1.36 | 2.56 | 0.2 | 46 | 177 | 1020 | 5.17 | 1.6 | 72.2 | 2.1 | 1.5 | 0.8 | 0.15 | 3.07 | 28.5 | 1.21 | 0.07 | 0.7 | 68.7 |
| 87550 | < 5 | 17.9 | 2.64 | 1.41 | 8.70 | 1.66 | 1.77 | < 0.1 | 21 | 121 | 401 | 4.46 | 1.8 | 46.3 | 1.5 | 1.6 | 0.5 | 0.05 | 2.13 | 17.6 | 0.77 | < 0.02 | 0.4 | 49.9 |
| 87551 | 49 | 25.4 | 2.48 | 2.75 | 8.55 | 1.48 | 2.98 | 0.2 | 109 | 265 | 1130 | 5.70 | 1.9 | 134 | 2.6 | 1.5 | 0.9 | 0.14 | 2.29 | 39.8 | 1.42 | < 0. | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87553 | < 5 | 25.3 | > 3.00 | 3.09 | > 10.0 | 0.36 | 6.73 | 0.3 | 66 | 354 | 587 | 3.94 | 0.3 | 104 | 2.7 | 1.1 | 1.0 | < 0.05 | 0.53 | 58.0 | 1.49 | < 0.02 | 0.9 | 130 |
| 87554 | 5 | 29.2 | 2.39 | 3.49 | 9.45 | 1.19 | 2.40 | 0.2 | 39 | 396 | 1030 | 6.70 | 0.8 | 185 | 2.5 | 1.3 | 0.9 | 0.08 | 2.10 | 49.7 | 1.55 | < 0.02 | 1.0 | 84.5 |
| 87555 | 39 | 24.9 | 2.33 | 2.22 | 6.86 | 1.30 | 2.23 | 0.2 | 141 | 353 | 580 | 5.52 | 2.8 | 104 | 1.2 | 1.5 | 0.4 | < 0.05 | 1.64 | 31.9 | 0.54 | < 0.02 | 1.1 | 66.3 |
| 87556 | 6 | 26.9 | 2.30 | 2.30 | 8.04 | 1.52 | 2.91 | 0.2 | 66 | 337 | 714 | 5.49 | 1.8 | 115 | 1.7 | 1.3 | 0.6 | 0.09 | 1.89 | 33.6 | 1.03 | < 0.02 | 0.8 | 80.7 |
| 87557 | < 5 | 28.9 | 2.35 | 2.49 | 9.23 | 1.48 | 2.10 | 0.1 | 36 | 184 | 580 | 6.50 | 0.6 | 76.1 | 1.8 | 1.5 | 0.6 | < 0.05 | 1.74 | 30.6 | 0.91 | < 0.02 | 0.7 | 78.4 |
| 87558 | 25 | 23.5 | 1.72 | 1.53 | 6.76 | 1.65 | 3.44 | 0.2 | 53 | 145 | 1350 | 4.32 | 1.6 | 70.5 | 1.8 | 1.3 | 0.6 | 0.08 | 2.21 | 23.4 | 1.14 | < 0.02 | 2.0 | 66.9 |
| 87559 | 10 | 27.3 | 2.64 | 1.75 | 9.01 | 2.30 | 1.65 | 0.1 | 27 | 108 | 513 | 5.42 | 1.7 | 62.5 | 1.4 | 1.7 | 0.5 | 0.08 | 2.25 | 18.6 | 0.84 | < 0.02 | 0.4 | 72.0 |
| 87560 | < 5 | 23.6 | 2.65 | 2.25 | 9.11 | 2.08 | 2.04 | < 0.1 | 28 | 154 | 689 | 5.19 | 1.5 | 82.5 | 1.6 | 1.6 | 0.6 | 0.06 | 1.91 | 22.1 | 1.09 | < 0.02 | 0.2 | 60.4 |
| 87561 | 9 | 19.7 | 2.54 | 1.66 | 8.08 | 2.09 | 1.57 | 0.1 | 21 | 126 | 417 | 5.42 | 1.2 | 58.8 | 1.2 | 1.5 | 0.4 | 0.07 | 2.02 | 15.8 | 0.78 | < 0.02 | 0.2 | 51.7 |
| 87562 | < 5 | 12.3 | 2.92 | 3.21 | 9.41 | 0.68 | 4.84 | < 0.1 | 124 | 204 | 750 | 7.36 | 1.1 | 56.6 | 2.0 | 1.0 | 0.7 | 0.07 | 0.78 | 30.5 | 0.73 | < 0.02 | 0.7 | 64.8 |
| 87563 | < 5 | 21.4 | 1.68 | 3.18 | 6.57 | 0.50 | 3.24 | 0.5 | 41 | 686 | 877 | 6.53 | 0.2 | 243 | 2.7 | 1.1 | 1.0 | 0.14 | 1.34 | 40.5 | 1.67 | < 0.02 | 1.0 | 55.1 |
| 87564 | 5 | 23.9 | 2.51 | 1.89 | 9.13 | 1.97 | 1.87 | 0.1 | 12 | 147 | 493 | 6.48 | 1.0 | 69.5 | 1.4 | 1.6 | 0.5 | 0.08 | 1.71 | 20.8 | 0.94 | < 0.02 | 0.6 | 66.7 |
| 87565 | 45 | 15.1 | 2.49 | 1.24 | 4.92 | 1.58 | 1.56 | 0.2 | 100 | 205 | 854 | 4.16 | 3.3 | 54.4 | 1.0 | 1.5 | 0.3 | 0.07 | 1.24 | 17.4 | 0.56 | < 0.02 | 0.6 | 49.6 |
| 87566 | 5 | 17.3 | 2.48 | 1.80 | 8.10 | 1.53 | 2.22 | < 0.1 | 41 | 169 | 431 | 4.38 | 2.0 | 59.1 | 1.4 | 1.5 | 0.5 | 0.12 | 1.58 | 19.2 | 0.87 | < 0.02 | 0.5 | 51.2 |
| 87567 | < 5 | 12.2 | 2.44 | 1.37 | 7.92 | 1.77 | 1.86 | < 0.1 | 13 | 94.7 | 372 | 3.75 | 0.5 | 39.9 | 1.3 | 1.3 | 0.4 | 0.22 | 1.57 | 13.3 | 0.81 | < 0.02 | 0.4 | 37.9 |
| 87568 | < 5 | 20.0 | 2.89 | 1.94 | 9.33 | 1.78 | 2.51 | 0.1 | 18 | 138 | 639 | 5.05 | 0.8 | 63.3 | 1.7 | 1.7 | 0.6 | 0.10 | 1.71 | 21.8 | 1.13 | < 0.02 | 0.5 | 61.7 |
| 87569 | 6 | 24.9 | 2.59 | 2.13 | 8.58 | 2.04 | 2.35 | < 0.1 | 28 | 154 | 833 | 5.53 | 1.1 | 81.0 | 2.0 | 1.5 | 0.7 | 0.07 | 1.72 | 25.9 | 1.40 | < 0.02 | 0.7 | 65.7 |
| 87570 | < 5 | 21.4 | 2.79 | 1.89 | 8.78 | 2.13 | 2.40 | 0.1 | 24 | 105 | 923 | 5.18 | 1.3 | 62.7 | 1.8 | 1.4 | 0.7 | 0.08 | 1.46 | 25.0 | 1.30 | < 0.02 | 0.3 | 63.9 |
| 87571 | 7 | 24.6 | 2.27 | 2.09 | 8.00 | 1.87 | 2.52 | 0.1 | 57 | 174 | 715 | 5.67 | 3.1 | 76.1 | 1.8 | 1.4 | 0.7 | 0.22 | 1.86 | 23.7 | 1.20 | 0.08 | 0.8 | 94.2 |
| 87572 | 5 | 23.9 | 2.52 | 2.04 | 8.44 | 1.88 | 2.41 | 0.1 | 35 | 165 | 551 | 5.13 | 1.7 | 65.0 | 1.6 | 1.7 | 0.6 | 0.06 | 1.75 | 17.6 | 1.05 | 0.08 | 0.5 | 73.5 |
| 87573 | 13 | 18.6 | 2.13 | 1.58 | 5.41 | 1.48 | 2.15 | 0.1 | 80 | 199 | 453 | 4.28 | 4.0 | 54.9 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.28 | 14.5 | 0.55 | 0.05 | 0.5 | 52.1 |
| 87574 | 15 | 24.2 | 2.21 | 1.96 | 7.58 | 1.54 | 2.37 | < 0.1 | 54 | 200 | 735 | 5.62 | 2.8 | 76.8 | 2.2 | 1.2 | 0.8 | 0.06 | 1.43 | 25.0 | 1.49 | 0.06 | 0.6 | 57.0 |
| 87575 | 6 | 15.8 | 2.36 | 2.01 | 7.45 | 1.31 | 3.07 | 0.2 | 74 | 133 | 780 | 7.69 | 0.4 | 57.2 | 2.2 | 1.3 | 0.8 | 0.08 | 1.10 | 25.2 | 1.79 | 0.06 | 0.9 | 75.4 |
| 87576 | < 5 | 17.3 | 2.65 | 2.39 | 8.01 | 1.03 | 3.34 | 0.2 | 40 | 139 | 753 | 6.75 | 1.0 | 62.0 | 2.6 | 1.5 | 0.9 | 0.08 | 1.50 | 27.4 | 1.96 | 0.07 | 0.7 | 70.1 |
| 87577 | 5 | 11.7 | 2.40 | 0.91 | 7.44 | 2.20 | 1.51 | 0.1 | 18 | 117 | 288 | 3.43 | 1.3 | 21.5 | 1.0 | 0.9 | 0.4 | < 0.05 | 1.64 | 7.4 | 0.87 | 0.06 | 0.3 | 29.0 |
| 87578 | 8 | 15.9 | 2.45 | 4.76 | 7.74 | 1.01 | 5.65 | 0.2 | 91 | 382 | 1190 | 7.69 | 3.2 | 225 | 2.5 | 3.5 | 1.0 | 0.08 | 0.80 | 48.2 | 2.33 | 0.03 | 0.9 | 83.0 |
| 87579 | < 5 | 19.6 | 2.72 | 2.29 | 8.32 | 1.83 | 3.10 | 0.2 | 40 | 188 | 978 | 6.65 | 2.0 | 86.8 | 2.5 | 1.8 | 1.0 | 0.09 | 1.10 | 35.4 | 2.15 | 0.05 | 0.7 | 85.0 |
| 87580 | < 5 | 17.0 | 2.73 | 2.12 | 8.30 | 1.74 | 3.20 | 0.1 | 38 | 272 | 768 | 4.92 | 2.7 | 93.6 | 2.2 | 1.7 | 0.9 | 0.05 | 0.94 | 29.5 | 2.17 | 0.06 | 0.6 | 56.1 |
| 87581 | < 5 | 15.1 | 2.53 | 1.61 | 7.14 | 1.79 | 2.84 | 0.1 | 38 | 192 | 584 | 3.82 | 2.3 | 63.5 | 1.7 | 1.3 | 0.6 | 0.08 | 0.95 | 17.4 | 1.38 | 0.04 | 0.6 | 44.3 |
| 87582 | 26 | 21.1 | 2.84 | 3.16 | 8.03 | 1.69 | 3.65 | 0.1 | 44 | 300 | 999 | 6.44 | 2.7 | 154 | 2.3 | 3.9 | 0.9 | 0.08 | 1.60 | 37.1 | 1.66 | 0.07 | 0.6 | 95.0 |
| 87583 | < 5 | 10.4 | 2.55 | 2.66 | 6.74 | 1.13 | 3.12 | < 0.1 | 96 | 276 | 647 | 7.02 | 3.5 | 89.3 | 1.5 | 1.3 | 0.6 | < 0.05 | 0.74 | 23.6 | 1.30 | 0.06 | 0.8 | 44.3 |
| 87584 | 6 | 18.9 | 2.56 | 2.49 | 7.30 | 1.68 | 2.84 | 0.2 | 46 | 316 | 983 | 5.59 | 3.3 | 116 | 2.2 | 2.5 | 0.8 | 0.10 | 1.44 | 28.4 | 1.72 | 0.05 | 0.8 | 68.8 |
| 87585 | < 5 | 16.5 | 2.64 | 2.58 | 7.96 | 1.75 | 2.91 | 0.1 | 35 | 310 | 734 | 5.66 | 3.3 | 117 | 1.6 | 1.5 | 0.6 | < 0.05 | 0.86 | 24.5 | 1.42 | 0.04 | 0.4 | 54.8 |
| 87586 | 8 | 15.3 | 2.68 | 0.90 | 8.11 | 2.34 | 1.38 | 0.1 | 38 | 98.7 | 339 | 3.89 | 4.3 | 20.9 | 1.0 | 1.0 | 0.4 | 0.12 | 1.49 | 7.5 | 0.79 | 0.06 | 0.5 | 51.5 |
| 87587 | 7 | 8.4 | 2.07 | 2.69 | 7.81 | 0.40 | 7.19 | 0.5 | 157 | 60.7 | 1760 | 13.8 | 1.5 | 100 | 4.0 | 1.5 | 1.5 | 0.10 | 0.18 | 161 | 2.51 | 0.06 | 1.0 | 97.9 |
| 87588 | 5 | 17.7 | 2.45 | 1.91 | 7.63 | 1.92 | 2.13 | 0.2 | 18 | 164 | 519 | 4.15 | 2.0 | 66.1 | 1.4 | 1.5 | 0.5 | 0.09 | 1.72 | 17.2 | 1.04 | 0.06 | 0.3 | 51.1 |
| 87589 | < 5 | 22.5 | 2.61 | 1.50 | 8.08 | 1.98 | 1.98 | 0.1 | 22 | 108 | 515 | 4.91 | 1.5 | 42.1 | 1.4 | 1.4 | 0.5 | 0.05 | 1.31 | 17.8 | 1.09 | 0.05 | 0.2 | 47.6 |
| 87590 | 5 | 21.8 | 2.51 | 1.19 | 7.47 | 2.01 | 1.83 | 0.1 | 18 | 94.6 | 467 | 3.61 | 2.6 | 29.7 | 1.2 | 1.2 | 0.5 | 0.05 | 1.47 | 11.6 | 0.90 | 0.07 | 0.3 | 39.7 |
| 87591 | 6 | 12.7 | 1.76 | 2.46 | 6.67 | 0.22 | 1.02 | 0.1 | 284 | 78.6 | 1230 | 11.6 | 2.3 | 45.1 | 2.1 | 0.5 | 0.7 | 0.08 | 0.92 | 36.1 | 0.64 | 0.20 | 1.0 | 77.2 |
| 87592 | 7 | 27.9 | 2.51 | 1.88 | 8.44 | 1.75 | 3.04 | 0.4 | 41 | 111 | 810 | 5.89 | 2.8 | 37.4 | 2.0 | 1.6 | 0.7 | 0.05 | 1.62 | 16.7 | 1.36 | 0.05 | 0.6 | 106 |
| 87593 | 7 | 56.9 | 0.18 | 8.45 | 4.38 | 0.36 | 7.08 | 1.6 | 128 | 66.3 | 2810 | 10.9 | 0.9 | 39.6 | 14.3 | 11.4 | 5.8 | 0.10 | 1.32 | 31.9 | 16.3 | 0.15 | 3.2 | 357 |
| 87594 | 19 | 18.3 | 2.37 | 1.70 | 5.79 | 1.86 | 1.93 | 0.1 | 71 | 184 | 636 | 4.63 | 5.2 | 66.6 | 1.1 | 1.4 | 0.4 | < 0.05 | 0.92 | 21.4 | 0.74 | 0.05 | 0.3 | 50.5 |
| 87595 | < 5 | 18.1 | 2.88 | 1.13 | 8.12 | 2.42 | 1.73 | 0.1 | 51 | 114 | 478 | 3.46 | 4.9 | 30.0 | 1.2 | 1.2 | 0.4 | 0.10 | 1.44 | 10.2 | 0.90 | 0.05 | 0.4 | 45.2 |
| 87596 | < 5 | 12.3 | 2.24 | 1.00 | 7.25 | 1.78 | 1.40 | 0.2 | 56 | 108 | 281 | 3.70 | 2.6 | 28.7 | 0.9 | 0.9 | 0.3 | 0.09 | 1.15 | 8.7 | 0.73 | 0.08 | 0.2 | 27.8 |
| 87597 | < 5 | 22.3 | 2.59 | 1.59 | 8.61 | 2.21 | 1.72 | < 0.1 | 41 | 112 | 491 | 4.91 | 0.8 | 47.1 | 1.1 | 1.2 | 0.4 | 0.41 | 1.35 | 14.3 | 0.87 | 0.07 | 0.3 | 47.6 |
| 87598 | < 5 | 28.6 | 2.55 | 1.71 | 8.94 | 2.82 | 1.89 | 0.1 | 43 | 107 | 775 | 4.54 | 1.5 | 57.6 | 1.5 | 1.5 | 0.6 | 0.08 | 2.49 | 19.2 | 1.15 | 0.09 | 0.4 | 67.0 |
| 87599 | < 5 | 19.4 | 2.63 | 1.29 | 8.63 | 2.33 | 1.69 | 0.1 | 26 | 113 | 508 | 3.94 | 0.5 | 47.1 | 1.2 | 1.4 | 0.5 | 0.05 | 1.50 | 13.9 | 1.01 | 0.06 | 0.4 | 41.1 |
| 87600 | < 5 | 15.0 | 2.47 | 1.28 | 8.00 | 2.22 | 1.62 | 0.1 | 18 | 111 | 435 | 3.63 | 2.2 | 32.2 | 1.1 | 1.1 | 0.4 | 0.15 | 1.84 | 10.3 | 0.92 | 0.09 | 0.2 | 41.1 |
| 87801 | 8 | 26.5 | 2.83 | 2.30 | 7.65 | 1.32 | 2.39 | 0.3 | 67 | 253 | 1480 | 7.01 | 2.1 | 88.2 | 3.6 | 3.6 | 1.5 | 0.07 | 1.47 | 31.9 | 4.06 | 0.12 | 0.9 | 108 |
| 87802 | < 5 | 36.4 | 1.73 | 2.90 | 5.94 | 0.96 | 2.91 | 0.7 | 66 | 253 | 2150 | 11.9 | 0.1 | 118 | 5.0 | 6.4 | 2.2 | 0.14 | 1.29 | 51.5 | 7.92 | 0.38 | 2.0 | 243 |
| 87803 | 11 | 34.0 | 1.90 | 2.55 | 4.75 | 1.35 | 3.69 | 0.6 | 158 | 305 | 2610 | 10.2 | 6.9 | 135 | 3.9 | 5.8 | 1.6 | < 0.05 | 1.05 | 57.0 | 4.49 | 0.19 | 1.9 | 195 |
| 87804 | 28 | 36.4 | 1.04 | 1.53 | 5.09 | 1.20 | 3.62 | 0.4 | 88 | 325 | 2650 | 9.71 | < 0.1 | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87805 | 7 | 29.4 | 2.29 | 2.42 | 7.61 | 1.28 | 2.62 | 0.2 | 56 | 206 | 1390 | 7.56 | 0.5 | 79.1 | 2.5 | 3.1 | 1.1 | < 0.05 | 1.79 | 33.8 | 3.23 | 0.08 | 0.7 | 107 |
| 87806 | < 5 | 26.8 | 2.26 | 2.05 | 7.02 | 1.08 | 3.12 | 0.2 | 38 | 176 | 1950 | 8.34 | 0.6 | 83.9 | 2.5 | 2.9 | 1.1 | 0.09 | 1.61 | 39.2 | 3.50 | 0.07 | 1.0 | 120 |
| 87807 | 6 | 22.7 | 2.10 | 3.30 | 7.77 | 0.68 | 3.65 | 0.3 | 35 | 249 | 1460 | 9.97 | 2.1 | 213 | 2.3 | 3.2 | 1.1 | 0.08 | 1.65 | 75.8 | 4.21 | 0.10 | 1.1 | 151 |
| 87808 | 25 | 26.2 | 2.45 | 2.69 | 7.88 | 1.55 | 4.20 | 0.3 | 53 | 173 | 1540 | 8.53 | 2.3 | 101 | 3.0 | 3.3 | 1.3 | 0.11 | 1.55 | 41.8 | 4.14 | 0.10 | 1.6 | 141 |
| 87809 | < 5 | 23.1 | 2.47 | 2.31 | 8.74 | 0.89 | 2.89 | 0.2 | 39 | 127 | 1580 | 8.33 | 1.0 | 79.9 | 2.3 | 2.3 | 0.9 | 0.09 | 0.95 | 46.8 | 2.67 | 0.05 | 1.1 | 87.9 |
| 87810 | 6 | 28.0 | 2.34 | 2.17 | 8.03 | 2.39 | 2.87 | 0.2 | 40 | 124 | 888 | 5.00 | 2.0 | 69.7 | 1.7 | 1.6 | 0.6 | 0.08 | 1.84 | 22.5 | 1.35 | 0.09 | 0.9 | 70.6 |
| 87811 | < 5 | 25.7 | 2.50 | 2.13 | 8.49 | 1.92 | 2.32 | 0.2 | 37 | 123 | 953 | 6.26 | 1.8 | 73.3 | 1.9 | 1.9 | 0.8 | 0.77 | 1.56 | 29.4 | 1.73 | 0.08 | 0.6 | 75.0 |
| 87812 | 112 | 22.2 | 2.33 | 2.07 | 5.19 | 1.30 | 2.17 | 0.2 | 110 | 171 | 1660 | 6.86 | 3.1 | 76.3 | 1.5 | 1.6 | 0.6 | < 0.05 | 0.82 | 36.9 | 1.14 | 0.06 | 1.4 | 79.2 |
| 87813 | 13 | 25.5 | 2.59 | 2.43 | 9.03 | 1.26 | 2.35 | 0.2 | 51 | 173 | 1340 | 7.62 | 1.7 | 85.6 | 2.7 | 2.3 | 1.1 | 0.05 | 1.19 | 40.9 | 3.08 | 0.06 | 1.0 | 86.4 |
| 87814 | < 5 | 25.7 | 2.41 | 2.22 | 8.35 | 1.30 | 2.12 | 0.3 | 39 | 186 | 1060 | 7.27 | 1.4 | 88.2 | 2.4 | 2.9 | 1.0 | 0.07 | 1.12 | 39.1 | 2.50 | 0.08 | 0.9 | 109 |
| 87815 | < 5 | 31.5 | 2.28 | 2.70 | 9.11 | 1.92 | 2.23 | 0.1 | 40 | 152 | 865 | 6.38 | 0.5 | 97.5 | 2.0 | 1.6 | 0.8 | 0.07 | 1.74 | 30.1 | 1.86 | 0.08 | 0.6 | 84.8 |
| 87816 | < 5 | 29.5 | 2.53 | 2.55 | 9.69 | 1.33 | 2.54 | 0.2 | 38 | 167 | 1150 | 7.40 | 1.0 | 90.6 | 2.2 | 2.5 | 0.9 | 0.06 | 1.12 | 37.7 | 2.15 | 0.06 | 0.8 | 88.5 |
| 87817 | < 5 | 30.7 | 2.61 | 2.85 | 9.76 | 1.50 | 2.79 | 0.2 | 42 | 164 | 1080 | 7.36 | 1.2 | 99.7 | 2.4 | 2.0 | 0.9 | 0.06 | 1.33 | 42.1 | 2.20 | 0.06 | 1.0 | 90.8 |
| 87818 | < 5 | 31.7 | 2.48 | 3.08 | 9.90 | 1.43 | 3.04 | 0.2 | 41 | 184 | 1210 | 7.77 | 1.4 | 102 | 2.5 | 2.6 | 1.0 | 0.08 | 1.29 | 42.4 | 2.56 | 0.07 | 1.0 | 92.6 |
| 87819 | < 5 | 35.9 | 2.45 | 2.72 | 9.29 | 2.28 | 2.30 | 0.1 | 57 | 178 | 773 | 5.63 | 1.9 | 101 | 1.7 | 1.6 | 0.7 | 0.10 | 1.92 | 26.8 | 1.31 | 0.08 | 0.6 | 87.1 |
| 87820 | < 5 | 28.8 | 2.47 | 2.87 | 9.30 | 0.98 | 3.06 | 0.1 | 47 | 333 | 930 | 7.40 | 1.4 | 145 | 2.4 | 2.3 | 0.9 | 0.10 | 1.14 | 44.4 | 1.89 | 0.06 | 0.8 | 84.2 |
| 87821 | 10 | 29.6 | 2.38 | 2.87 | 9.44 | 1.72 | 2.26 | 0.1 | 80 | 266 | 996 | 6.85 | 2.5 | 122 | 2.0 | 1.9 | 0.8 | < 0.05 | 1.63 | 36.6 | 1.87 | 0.06 | 1.0 | 80.2 |
| 87822 | 59 | 31.6 | 2.10 | 3.10 | 6.75 | 1.66 | 3.00 | 0.3 | 146 | 451 | 1140 | 7.19 | 2.8 | 180 | 2.5 | 2.8 | 1.0 | < 0.05 | 1.17 | 42.6 | 2.14 | 0.07 | 1.5 | 105 |
| 87823 | 7 | 32.9 | 2.11 | 2.61 | 8.36 | 1.82 | 2.35 | 0.2 | 63 | 245 | 810 | 6.21 | 2.1 | 101 | 2.1 | 1.7 | 0.8 | 0.09 | 1.94 | 30.0 | 1.58 | 0.10 | 0.9 | 97.9 |
| 87824 | < 5 | 28.6 | 2.37 | 3.10 | 9.04 | 1.28 | 2.94 | 0.2 | 51 | 310 | 1450 | 7.66 | 0.7 | 173 | 3.1 | 2.3 | 1.2 | 0.11 | 1.49 | 53.7 | 3.26 | 0.08 | 1.0 | 99.0 |
| 87825 | < 5 | 32.3 | 2.37 | 2.70 | 9.33 | 2.15 | 2.34 | 0.1 | 37 | 165 | 742 | 5.70 | 1.8 | 99.3 | 1.8 | 1.7 | 0.7 | 0.08 | 2.03 | 26.0 | 1.38 | 0.09 | 0.5 | 81.8 |
| 87826 | < 5 | 26.3 | 2.65 | 2.78 | 8.98 | 0.96 | 2.94 | 0.2 | 44 | 336 | 1160 | 6.77 | 1.1 | 179 | 2.3 | 2.2 | 0.9 | 0.07 | 1.21 | 47.4 | 2.12 | 0.05 | 1.1 | 87.4 |
| 87827 | < 5 | 28.2 | 2.41 | 2.48 | 8.66 | 1.88 | 2.25 | 0.1 | 39 | 191 | 756 | 5.48 | 1.6 | 103 | 1.7 | 1.7 | 0.6 | 0.12 | 1.62 | 26.4 | 1.30 | 0.06 | 0.6 | 69.9 |
| 87828 | < 5 | 25.9 | 2.70 | 2.61 | 9.28 | 1.08 | 3.76 | 0.3 | 34 | 278 | 1430 | 6.79 | 1.3 | 120 | 2.4 | 2.0 | 0.9 | 0.09 | 1.13 | 43.1 | 2.18 | 0.06 | 1.0 | 79.7 |
| 87829 | < 5 | 26.9 | 2.50 | 2.50 | 8.45 | 2.15 | 2.82 | 0.2 | 47 | 151 | 861 | 5.30 | 2.1 | 81.8 | 1.6 | 1.4 | 0.6 | 0.09 | 1.70 | 24.1 | 1.20 | 0.06 | 0.9 | 70.4 |
| 87830 | 5 | 26.7 | 2.83 | 2.34 | 9.23 | 1.73 | 2.74 | 0.2 | 32 | 205 | 798 | 5.77 | 1.4 | 88.6 | 1.8 | 1.4 | 0.7 | 0.07 | 1.51 | 30.5 | 1.38 | 0.06 | 0.7 | 71.8 |
| 87831 | 29 | 25.4 | 2.44 | 2.34 | 8.75 | 1.77 | 2.24 | 0.1 | 34 | 151 | 955 | 5.83 | 1.3 | 91.2 | 1.7 | 1.4 | 0.7 | 0.05 | 1.51 | 32.4 | 1.35 | 0.05 | 0.6 | 68.1 |
| 87832 | 7 | 24.0 | 2.08 | 2.01 | 7.40 | 1.16 | 1.85 | 0.1 | 69 | 202 | 666 | 5.12 | 2.6 | 83.1 | 1.4 | 1.5 | 0.6 | < 0.05 | 1.45 | 25.5 | 1.11 | 0.06 | 0.8 | 63.0 |
| 87833 | < 5 | 29.0 | 2.18 | 2.29 | 8.34 | 1.64 | 2.14 | 0.1 | 72 | 174 | 691 | 5.51 | 2.1 | 98.8 | 1.5 | 1.4 | 0.6 | < 0.05 | 1.47 | 29.1 | 1.15 | 0.05 | 0.8 | 64.2 |
| 87834 | < 5 | 31.1 | 2.40 | 2.72 | 8.19 | 0.71 | 3.70 | 0.2 | 27 | 392 | 798 | 6.56 | 1.0 | 148 | 1.8 | 1.2 | 0.7 | 0.06 | 1.21 | 41.8 | 1.25 | 0.04 | 0.8 | 92.6 |
| 87835 | < 5 | 23.4 | > 3.00 | 1.70 | 9.42 | 0.32 | 3.47 | 0.1 | 59 | 65.0 | 774 | 6.18 | 1.3 | 58.3 | 2.0 | 1.2 | 0.8 | < 0.05 | 0.79 | 42.1 | 1.74 | 0.04 | 1.0 | 55.2 |
| 87836 | < 5 | 26.5 | > 3.00 | 2.33 | > 10.0 | 0.19 | 3.62 | < 0.1 | 45 | 34.7 | 751 | 6.44 | 0.5 | 50.2 | 1.5 | 1.6 | 0.6 | < 0.05 | 0.76 | 45.3 | 1.50 | 0.02 | 0.5 | 61.2 |
| 87837 | 5 | 21.2 | > 3.00 | 1.85 | 8.45 | 0.67 | 3.04 | 0.3 | 50 | 185 | 1220 | 6.98 | 1.4 | 92.0 | 2.3 | 1.7 | 0.9 | 0.14 | 0.84 | 48.6 | 1.97 | 0.05 | 0.7 | 79.9 |
| 87838 | < 5 | 25.6 | 1.93 | 1.97 | 7.16 | 1.36 | 2.45 | 0.5 | 26 | 139 | 833 | 5.38 | 1.1 | 71.2 | 1.4 | 1.4 | 0.5 | 0.06 | 1.93 | 26.3 | 1.26 | 0.08 | 0.7 | 92.5 |
| 87839 | < 5 | 26.7 | 1.85 | 2.19 | 7.27 | 0.88 | 3.46 | 0.2 | 61 | 116 | 866 | 6.15 | 1.4 | 77.6 | 2.4 | 2.0 | 0.9 | 0.08 | 1.30 | 33.1 | 2.54 | 0.07 | 1.4 | 73.5 |
| 87840 | < 5 | 29.3 | 2.16 | 2.53 | 8.40 | 1.03 | 2.90 | 0.2 | 58 | 123 | 1040 | 7.30 | 1.8 | 73.7 | 2.3 | 2.3 | 0.9 | < 0.05 | 1.14 | 39.0 | 2.33 | 0.06 | 1.2 | 86.4 |
| 87841 | < 5 | 27.4 | 2.09 | 2.30 | 7.49 | 1.07 | 2.69 | 0.3 | 57 | 183 | 1380 | 7.22 | 1.9 | 88.3 | 3.0 | 2.3 | 1.3 | 0.09 | 1.07 | 38.9 | 3.36 | 0.14 | 0.9 | 113 |
| 87842 | < 5 | 28.7 | 2.30 | 2.43 | 8.82 | 1.00 | 2.53 | 0.2 | 62 | 153 | 786 | 7.04 | 1.6 | 73.9 | 2.1 | 2.4 | 0.9 | < 0.05 | 0.89 | 35.4 | 2.16 | 0.06 | 0.8 | 77.9 |
| 87843 | < 5 | 32.0 | 1.93 | 2.99 | 8.15 | 0.75 | 3.26 | 0.1 | 62 | 468 | 1320 | 9.30 | 1.5 | 168 | 3.1 | 3.2 | 1.3 | 0.06 | 0.99 | 60.4 | 3.23 | 0.12 | 0.9 | 342 |
| 87844 | < 5 | 29.6 | > 3.00 | 1.90 | 9.23 | 0.77 | 3.20 | 0.5 | 42 | 108 | 1430 | 9.63 | 0.7 | 102 | 2.7 | 2.4 | 1.1 | < 0.05 | 1.35 | 55.1 | 2.82 | 0.10 | 1.1 | 128 |
| 87845 | 11 | 23.9 | 2.11 | 2.24 | 8.77 | 0.45 | 2.72 | 0.1 | 33 | 69.0 | 573 | 6.36 | 0.4 | 41.6 | 1.6 | 2.4 | 0.6 | < 0.05 | 0.56 | 27.5 | 1.40 | 0.05 | 0.5 | 63.6 |
| 87846 | 94 | 24.8 | 1.78 | 1.80 | 3.50 | 0.70 | 3.01 | 2.2 | 153 | 182 | 5600 | 19.8 | < 0.1 | 158 | 9.6 | 8.1 | 4.1 | 0.45 | 0.70 | 76.0 | 14.9 | 1.70 | 6.7 | 365 |
| 87847 | < 5 | 31.1 | 1.98 | 2.15 | 7.62 | 1.06 | 2.42 | 0.1 | 49 | 199 | 1340 | 8.08 | 1.4 | 110 | 2.8 | 2.9 | 1.2 | 0.05 | 1.21 | 50.2 | 3.11 | 0.08 | 1.1 | 95.1 |
| 87848 | < 5 | 25.7 | 1.73 | 2.47 | 7.10 | 1.09 | 2.63 | 0.4 | 47 | 225 | 1670 | 8.41 | 1.1 | 149 | 3.3 | 3.2 | 1.4 | 0.11 | 1.14 | 52.2 | 4.24 | 0.09 | 0.7 | 108 |
| 87849 | < 5 | 32.5 | 2.43 | 2.00 | 8.48 | 1.57 | 1.74 | 0.2 | 78 | 134 | 913 | 7.30 | 2.6 | 77.5 | 1.9 | 2.3 | 0.8 | < 0.05 | 1.77 | 41.3 | 2.14 | 0.08 | 0.9 | 102 |
| 87850 | < 5 | 28.4 | > 3.00 | 1.54 | 5.49 | 0.21 | 2.30 | 0.3 | 54 | 281 | 808 | 8.82 | 3.0 | 160 | 1.6 | 2.5 | 0.7 | < 0.05 | 2.42 | 57.1 | 2.12 | 0.05 | 0.8 | 115 |
| 87851 | 8 | 28.6 | 2.60 | 1.88 | 5.44 | 0.73 | 2.71 | 0.2 | 50 | 317 | 1290 | 8.99 | 3.6 | 170 | 1.4 | 3.4 | 0.6 | 0.07 | 2.70 | 60.9 | 1.96 | 0.05 | 0.4 | 127 |
| 87852 | < 5 | 42.4 | 1.73 | 3.42 | 6.20 | 1.52 | 5.41 | 0.7 | 86 | 203 | 2410 | 8.01 | 0.5 | 153 | 5.2 | 11.6 | 2.2 | 0.10 | 1.50 | 45.0 | 6.50 | 0.43 | 1.4 | 242 |
| 87853 | 6 | 37.2 | 1.72 | 2.43 | 7.05 | 1.38 | 2.56 | 0.6 | 95 | 289 | 1720 | 8.52 | 2.3 | 178 | 3.2 | 3.1 | 1.3 | 0.09 | 2.03 | 56.0 | 3.42 | 0.12 | 0.9 | 180 |
| 87854 | 7 | 35.5 | 1.74 | 2.21 | 6.89 | 1.49 | 2.61 | 0.3 | 60 | 257 | 967 | 6.86 | < 0.1 | 107 | 2.9 | 3.3 | 1.2 | 0.12 | 2.02 | 36.3 | 3.35 | 0.10 | 0.9 | 116 |
| 87855 | 5 | 27.0 | 1.72 | 1.91 | 6.38 | 1.48 | 2.55 | 0.1 | 57 | 177 | 1300 | 5.47 | 1.5 | 83.7 | 2.2 | 2.1 | 0.9 | 0.09 | 1.65 | 27.7 | 2.48 | 0.10 | 0.8 | 86.1 |
| 87856 | < 5 | 24.8 | 2.15 | 1.94 | 6.01 | 1.84 | 2.57 | 0.2 | 50 | 201 | 935 | 7.88 | 1.6 | 66.4 | 2.0 | 2.5 | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87857 | < 5 | 26.9 | 1.54 | 2.76 | 6.93 | 1.45 | 4.32 | 0.4 | 62 | 241 | 2420 | 8.52 | 1.1 | 227 | 3.6 | 3.3 | 1.5 | 0.11 | 1.47 | 71.2 | 4.29 | 0.10 | 1.1 | 112 |
| 87858 | < 5 | 26.9 | 1.29 | 2.22 | 5.78 | 1.09 | 3.68 | 0.4 | 95 | 267 | 3820 | 7.82 | 1.5 | 152 | 3.1 | 3.1 | 1.3 | 0.11 | 1.65 | 49.2 | 3.66 | 0.10 | 1.5 | 104 |
| 87859 | < 5 | 31.4 | 1.59 | 3.07 | 6.90 | 1.34 | 6.31 | 0.3 | 53 | 238 | 1970 | 8.18 | 0.5 | 191 | 4.1 | 5.1 | 1.7 | 0.10 | 1.68 | 55.9 | 5.34 | 0.11 | 1.0 | 133 |
| 87860 | 15 | 21.8 | 0.07 | 2.21 | 2.33 | 0.15 | 16.4 | 0.8 | 122 | 97.0 | > 10000 | 9.69 | < 0.1 | 90.6 | 45.4 | 41.9 | 20.0 | < 0.05 | 0.76 | 34.3 | 85.3 | 0.60 | 12.0 | 42.1 |
| 87861 | 13 | 24.4 | 0.04 | 6.98 | 0.47 | 0.31 | 16.2 | 0.5 | 40 | < 0.5 | > 10000 | 12.2 | 1.6 | 46.2 | 15.6 | 1.8 | 7.5 | 0.47 | 0.52 | 32.4 | 19.2 | 1.70 | 5.1 | 403 |
| 87862 | 12 | 21.4 | 1.57 | 2.17 | 5.72 | 0.60 | 3.41 | 0.7 | 118 | 552 | 1520 | 9.21 | 4.2 | 163 | 4.4 | 3.8 | 1.9 | 0.17 | 0.64 | 44.6 | 6.50 | 0.22 | 1.5 | 78.9 |
| 87863 | 25 | 74.4 | 0.80 | 5.77 | 2.96 | 1.72 | 11.8 | 0.7 | 109 | 161 | 6040 | 11.9 | 1.3 | 154 | 12.7 | 10.3 | 5.1 | < 0.05 | 2.04 | 84.8 | 15.0 | 0.92 | 3.1 | 173 |
| 87864 | < 5 | 23.1 | 1.75 | 2.29 | 5.74 | 0.81 | 3.22 | 0.2 | 28 | 9.1 | 1300 | 10.5 | < 0.1 | 39.6 | 2.7 | 3.9 | 1.3 | 0.07 | 3.03 | 35.6 | 4.63 | 0.07 | 0.6 | 142 |
| 87865 | < 5 | 25.6 | 2.34 | 1.86 | 7.31 | 0.81 | 2.09 | 0.2 | 32 | 133 | 907 | 7.36 | 1.1 | 55.5 | 2.5 | 4.4 | 1.1 | 0.05 | 1.54 | 35.1 | 3.61 | 0.08 | 0.6 | 96.2 |
| 87866 | 7 | 39.7 | 2.29 | 2.39 | 7.21 | 0.85 | 2.69 | 0.2 | 67 | 145 | 1190 | 8.28 | 0.9 | 60.3 | 3.8 | 5.8 | 1.5 | 0.05 | 1.25 | 35.1 | 2.85 | 0.16 | 1.0 | 118 |
| 87867 | < 5 | 25.9 | 2.60 | 2.07 | 8.26 | 0.96 | 1.98 | 0.4 | 60 | 158 | 957 | 7.70 | 2.6 | 72.4 | 1.8 | 2.4 | 0.7 | < 0.05 | 1.50 | 34.3 | 1.75 | 0.06 | 1.1 | 89.7 |
| 87868 | < 5 | 26.9 | 2.64 | 1.84 | 8.71 | 1.07 | 2.22 | 0.2 | 48 | 112 | 777 | 7.35 | 1.9 | 50.7 | 1.6 | 2.8 | 0.6 | < 0.05 | 1.25 | 30.7 | 1.38 | 0.06 | 1.0 | 82.7 |
| 87869 | < 5 | 21.1 | 2.49 | 1.42 | 5.64 | 1.09 | 2.03 | 0.2 | 33 | 108 | 846 | 5.71 | 2.2 | 46.5 | 1.2 | 2.0 | 0.5 | 0.07 | 1.09 | 26.1 | 0.91 | 0.05 | 0.5 | 61.9 |
| 87870 | 5 | 24.7 | 2.32 | 1.38 | 7.65 | 1.68 | 1.51 | 0.1 | 36 | 117 | 431 | 4.98 | 3.4 | 37.8 | 1.1 | 1.5 | 0.4 | 0.07 | 1.47 | 14.9 | 0.81 | 0.06 | 0.8 | 50.6 |
| 87871 | < 5 | 24.4 | 2.80 | 1.65 | 9.11 | 1.06 | 2.20 | 0.2 | 33 | 78.1 | 753 | 6.81 | 1.5 | 44.5 | 1.5 | 1.7 | 0.6 | 0.05 | 0.79 | 32.3 | 1.25 | 0.04 | 0.7 | 57.6 |
| 87872 | < 5 | 27.2 | 2.62 | 2.17 | 9.51 | 0.94 | 2.59 | < 0.1 | 63 | 81.7 | 872 | 6.90 | 1.4 | 48.1 | 1.3 | 1.7 | 0.5 | < 0.05 | 0.93 | 35.9 | 1.03 | 0.04 | 1.0 | 58.6 |
| 87873 | < 5 | 21.3 | 2.50 | 1.78 | 8.02 | 1.15 | 2.35 | 0.4 | 52 | 98.6 | 630 | 5.29 | 1.7 | 47.7 | 1.5 | 1.5 | 0.6 | < 0.05 | 1.01 | 25.0 | 1.16 | 0.05 | 0.9 | 57.4 |
| 87874 | < 5 | 36.5 | 1.74 | 2.20 | 7.86 | 1.56 | 2.42 | 0.1 | 50 | 160 | 680 | 6.16 | 1.0 | 83.5 | 2.2 | 1.3 | 0.8 | 0.08 | 2.10 | 35.2 | 1.88 | 0.07 | 1.1 | 71.1 |
| 87875 | 11 | 29.3 | 2.21 | 2.76 | 9.45 | 1.06 | 2.03 | 0.3 | 30 | 112 | 1310 | 8.47 | 0.5 | 59.1 | 2.1 | 1.4 | 0.8 | < 0.05 | 1.27 | 38.6 | 1.62 | 0.05 | 0.9 | 91.0 |
| 87876 | < 5 | 45.8 | > 3.00 | 1.55 | 9.17 | 0.21 | 3.11 | 0.1 | 26 | 46.3 | 568 | 4.99 | 0.3 | 50.3 | 0.8 | 1.5 | 0.3 | < 0.05 | 1.21 | 41.1 | 0.92 | 0.02 | 0.5 | 64.0 |
| 87877 | 46 | 24.6 | 2.88 | 2.05 | 9.62 | 1.33 | 2.65 | 0.2 | 58 | 113 | 1080 | 6.50 | 1.3 | 57.4 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.16 | 35.7 | 1.21 | 0.04 | 0.8 | 62.0 |
| 87878 | 24 | 25.2 | 2.53 | 1.69 | 8.49 | 2.25 | 1.70 | 0.1 | 45 | 126 | 521 | 4.50 | 2.8 | 54.4 | 1.3 | 1.5 | 0.5 | 0.06 | 1.51 | 15.5 | 1.01 | 0.06 | 0.6 | 49.9 |
| 87879 | < 5 | 23.7 | 2.58 | 1.72 | 7.25 | 1.58 | 2.16 | 0.2 | 44 | 138 | 617 | 4.87 | 2.5 | 56.5 | 1.2 | 1.4 | 0.5 | 0.08 | 1.25 | 21.6 | 0.89 | 0.05 | 0.7 | 54.4 |
| 87880 | < 5 | 22.4 | 2.43 | 1.76 | 8.27 | 1.66 | 1.74 | 0.3 | 69 | 167 | 465 | 5.40 | 3.4 | 56.1 | 1.1 | 1.4 | 0.4 | 0.14 | 1.65 | 17.4 | 0.80 | 0.06 | 1.1 | 49.5 |
| 87881 | 7 | 21.4 | 2.91 | 2.08 | 8.87 | 1.34 | 2.38 | 0.2 | 39 | 165 | 555 | 5.27 | 1.4 | 67.6 | 1.3 | 1.4 | 0.5 | 0.12 | 1.34 | 23.3 | 0.81 | 0.05 | 0.5 | 57.9 |
| 87882 | < 5 | 33.3 | 2.27 | 1.49 | 8.39 | 1.80 | 1.93 | 0.1 | 40 | 102 | 504 | 5.23 | 1.8 | 51.7 | 1.2 | 1.6 | 0.5 | 0.09 | 1.47 | 18.5 | 0.93 | 0.06 | 0.6 | 50.4 |
| 87883 | < 5 | 27.8 | 2.50 | 2.04 | 8.60 | 1.89 | 2.17 | 0.2 | 52 | 147 | 933 | 5.63 | 2.2 | 73.0 | 1.6 | 1.5 | 0.6 | 0.06 | 1.62 | 29.5 | 1.25 | 0.06 | 0.8 | 64.3 |
| 87884 | < 5 | 27.0 | 2.69 | 1.86 | 8.62 | 2.13 | 2.20 | < 0.1 | 40 | 138 | 612 | 4.93 | 2.1 | 62.8 | 1.6 | 1.6 | 0.6 | 0.05 | 1.62 | 19.6 | 1.15 | 0.06 | 0.7 | 69.1 |
| 87885 | 7 | 27.5 | 2.44 | 1.96 | 8.09 | 2.17 | 2.01 | 0.1 | 39 | 159 | 562 | 4.81 | 2.0 | 73.8 | 1.5 | 1.4 | 0.6 | 0.06 | 1.64 | 19.1 | 1.10 | 0.06 | 0.7 | 75.0 |
| 87886 | 6 | 25.7 | 2.66 | 2.20 | 8.98 | 1.77 | 2.21 | 0.1 | 44 | 198 | 710 | 5.51 | 1.9 | 77.0 | 1.5 | 1.6 | 0.5 | 0.06 | 1.34 | 27.5 | 1.04 | 0.05 | 0.8 | 57.3 |
| 87887 | 15 | 24.9 | 2.56 | 2.19 | 8.76 | 1.47 | 2.07 | 0.1 | 67 | 185 | 617 | 5.36 | 2.1 | 83.0 | 1.4 | 1.6 | 0.5 | < 0.05 | 1.37 | 27.4 | 1.02 | 0.05 | 0.6 | 61.4 |
| 87888 | < 5 | 27.4 | 2.45 | 2.27 | 8.40 | 1.64 | 2.10 | 0.2 | 44 | 186 | 537 | 5.49 | 1.8 | 92.0 | 1.3 | 1.5 | 0.5 | < 0.05 | 1.93 | 25.2 | 0.89 | 0.07 | 0.6 | 65.3 |
| 87889 | < 5 | 21.1 | 2.58 | 1.87 | 7.89 | 1.73 | 1.97 | < 0.1 | 41 | 155 | 649 | 4.90 | 2.4 | 72.0 | 1.5 | 1.5 | 0.6 | 0.06 | 1.20 | 20.4 | 1.13 | 0.05 | 0.7 | 56.7 |
| 87890 | 7 | 26.0 | 2.30 | 2.18 | 6.31 | 1.37 | 1.91 | 0.1 | 74 | 204 | 608 | 5.23 | 3.2 | 82.4 | 1.3 | 1.7 | 0.5 | 0.06 | 1.45 | 21.0 | 0.86 | 0.07 | 0.7 | 66.7 |
| 87891 | 27 | 26.7 | 2.19 | 2.11 | 7.33 | 1.70 | 2.72 | 0.2 | 81 | 205 | 886 | 5.30 | 3.0 | 82.7 | 1.6 | 1.6 | 0.6 | < 0.05 | 1.55 | 22.0 | 1.02 | 0.05 | 0.9 | 63.7 |
| 87892 | 24 | 23.0 | 2.52 | 1.86 | 7.79 | 1.61 | 2.60 | 0.1 | 63 | 187 | 577 | 4.71 | 3.2 | 66.3 | 1.6 | 1.3 | 0.6 | 0.05 | 1.31 | 19.5 | 1.08 | 0.05 | 0.8 | 61.5 |
| 87893 | < 5 | 27.9 | 2.47 | 1.97 | 8.20 | 1.59 | 1.92 | 0.1 | 56 | 182 | 642 | 5.88 | 2.0 | 74.9 | 1.1 | 1.6 | 0.4 | < 0.05 | 2.07 | 22.6 | 0.65 | 0.08 | 0.5 | 66.8 |
| 87894 | < 5 | 29.2 | 2.39 | 2.63 | 8.48 | 1.36 | 2.45 | 0.1 | 31 | 296 | 675 | 6.16 | 1.3 | 113 | 1.4 | 1.4 | 0.5 | 0.07 | 1.28 | 28.8 | 0.90 | 0.04 | 0.6 | 58.6 |
| 87895 | 9 | 24.9 | 2.68 | 2.14 | 8.30 | 1.67 | 2.17 | 0.1 | 47 | 191 | 754 | 5.21 | 1.9 | 90.7 | 1.8 | 1.5 | 0.6 | < 0.05 | 1.48 | 25.7 | 1.23 | 0.05 | 0.7 | 64.2 |
| 87896 | < 5 | 18.6 | 2.06 | 1.83 | 7.05 | 1.47 | 1.82 | < 0.1 | 36 | 97.2 | 576 | 4.47 | 0.4 | 72.8 | 1.4 | 1.2 | 0.5 | 0.09 | 1.64 | 19.5 | 0.93 | 0.05 | 0.9 | 52.6 |
| 87897 | < 5 | 25.4 | 2.45 | 2.13 | 8.23 | 1.92 | 2.06 | 0.1 | 32 | 157 | 657 | 5.28 | 1.8 | 77.4 | 1.6 | 1.5 | 0.6 | 0.08 | 1.60 | 20.7 | 1.18 | 0.06 | 0.7 | 62.5 |
| 87898 | < 5 | 28.9 | 2.34 | 2.30 | 8.32 | 1.96 | 2.37 | 0.1 | 55 | 170 | 583 | 5.00 | 1.9 | 77.6 | 1.4 | 1.7 | 0.5 | 0.07 | 1.81 | 21.2 | 0.96 | 0.07 | 0.9 | 70.3 |
| 87899 | 7 | 23.3 | 2.81 | 1.90 | 6.24 | 0.97 | 2.29 | 0.1 | 86 | 175 | 801 | 5.46 | 2.5 | 71.8 | 1.5 | 1.4 | 0.5 | 0.50 | 1.11 | 33.2 | 0.98 | 0.05 | 1.0 | 58.8 |
| 87900 | < 5 | 23.8 | 2.78 | 2.06 | 8.66 | 1.52 | 2.27 | < 0.1 | 43 | 140 | 744 | 5.26 | 1.9 | 70.9 | 1.8 | 1.5 | 0.7 | 0.05 | 1.36 | 25.8 | 1.38 | 0.05 | 0.7 | 58.0 |
| 87901 | < 5 | 20.1 | 2.64 | 1.53 | 7.42 | 1.61 | 2.12 | < 0.1 | 49 | 146 | 650 | 4.22 | 4.1 | 50.7 | 1.5 | 1.4 | 0.6 | < 0.05 | 1.12 | 16.1 | 1.14 | 0.05 | 0.9 | 48.1 |
| 87902 | < 5 | 21.6 | 2.29 | 1.38 | 6.78 | 1.74 | 1.74 | 0.1 | 53 | 155 | 624 | 4.82 | 2.9 | 64.3 | 1.5 | 1.5 | 0.5 | < 0.05 | 1.47 | 17.0 | 1.12 | 0.08 | 0.8 | 52.5 |
| 87903 | < 5 | 16.0 | 2.22 | 1.27 | 6.64 | 1.57 | 1.69 | < 0.1 | 22 | 122 | 467 | 4.49 | 1.5 | 53.9 | 1.2 | 1.3 | 0.5 | < 0.05 | 1.14 | 12.6 | 0.90 | 0.06 | 0.4 | 42.7 |
| 87904 | < 5 | 19.0 | 2.43 | 1.71 | 7.39 | 1.71 | 2.02 | < 0.1 | 56 | 149 | 602 | 5.07 | 3.6 | 62.9 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.27 | 17.9 | 1.12 | 0.06 | 0.6 | 52.3 |
| 87905 | < 5 | 16.1 | 2.49 | 1.44 | 6.83 | 1.62 | 2.12 | 0.1 | 50 | 118 | 662 | 4.64 | 2.9 | 52.9 | 1.6 | 1.3 | 0.6 | 0.06 | 1.26 | 16.5 | 1.17 | 0.05 | 0.3 | 47.6 |
| 87906 | < 5 | 15.1 | 2.61 | 1.23 | 6.86 | 1.95 | 1.99 | 0.1 | 51 | 100 | 706 | 4.33 | 3.3 | 47.6 | 1.6 | 1.4 | 0.6 | 0.06 | 1.13 | 15.2 | 1.22 | 0.05 | 0.4 | 44.8 |
| 87907 | < 5 | 17.4 | 2.75 | 1.41 | 7.60 | 2.11 | 2.03 | 0.1 | 52 | 113 | 743 | 4.60 | 3.4 | 51.6 | 1.6 | 1.5 | 0.6 | 0.06 | 1.40 | 16.4 | 1.26 | 0.05 | 0.7 | 50.2 |
| 87908 | 23 | 16.7 | 2.13 | 1.01 | 4.25 | 0.94 | 1.37 | 0.2 | 89 | 14 | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87909 | 14 | 14.5 | 2.36 | 1.11 | 6.62 | 1.47 | 1.73 | 0.1 | 76 | 113 | 437 | 3.98 | 4.1 | 38.8 | 1.4 | 1.3 | 0.5 | 0.07 | 1.29 | 11.8 | 0.97 | 0.04 | 0.6 | 38.9 |
| 87910 | 8 | 17.0 | 2.11 | 1.08 | 6.07 | 1.32 | 1.92 | 0.2 | 73 | 120 | 559 | 3.56 | 4.2 | 41.0 | 1.3 | 1.3 | 0.5 | 0.11 | 1.38 | 11.1 | 0.94 | 0.06 | 0.4 | 41.5 |
| 87911 | < 5 | 20.3 | 1.45 | 1.44 | 5.34 | 1.39 | 2.75 | 0.3 | 79 | 135 | 788 | 4.45 | 1.0 | 58.8 | 1.4 | 1.3 | 0.5 | 0.16 | 2.16 | 19.9 | 0.86 | 0.06 | 0.5 | 69.0 |
| 87912 | < 5 | 17.1 | 2.10 | 2.04 | 6.73 | 1.41 | 3.25 | 0.1 | 49 | 194 | 856 | 5.05 | 1.9 | 72.5 | 1.7 | 1.9 | 0.6 | 0.07 | 1.44 | 25.2 | 1.10 | 0.04 | 0.3 | 52.7 |
| 87913 | < 5 | 13.6 | 2.37 | 1.83 | 6.77 | 1.52 | 2.82 | 0.1 | 32 | 160 | 558 | 4.00 | 2.2 | 64.1 | 1.5 | 1.2 | 0.5 | 0.12 | 1.06 | 15.8 | 0.91 | 0.04 | 0.3 | 42.6 |
| 87914 | 7 | 15.9 | 2.34 | 1.62 | 6.64 | 1.46 | 2.39 | < 0.1 | 49 | 134 | 563 | 4.71 | 2.5 | 51.4 | 1.4 | 1.2 | 0.5 | 0.08 | 1.15 | 17.2 | 0.94 | 0.04 | 0.2 | 40.3 |
| 87915 | 16 | 20.9 | 2.37 | 1.12 | 6.92 | 1.92 | 1.99 | 0.2 | 56 | 84.7 | 644 | 4.23 | 3.7 | 51.1 | 2.0 | 1.3 | 0.7 | 0.12 | 1.42 | 17.2 | 1.41 | 0.06 | 0.4 | 43.5 |
| 87916 | 7 | 16.7 | 1.79 | 1.05 | 6.05 | 1.66 | 2.44 | 0.2 | 102 | 144 | 663 | 5.05 | 5.5 | 43.8 | 2.1 | 1.0 | 0.7 | 0.25 | 2.15 | 12.6 | 1.14 | 0.09 | 1.8 | 39.5 |
| 87917 | < 5 | 11.1 | 2.46 | 0.85 | 6.34 | 1.68 | 2.00 | 0.2 | 60 | 85.2 | 433 | 3.52 | 2.0 | 25.3 | 1.6 | 1.0 | 0.6 | 0.08 | 1.02 | 8.6 | 0.97 | 0.04 | 0.4 | 39.5 |
| 87918 | 7 | 16.9 | 1.68 | 1.49 | 4.79 | 0.97 | 3.58 | 0.3 | 131 | 146 | 900 | 4.80 | 3.3 | 55.9 | 1.7 | 1.1 | 0.6 | 0.08 | 1.73 | 24.1 | 0.95 | 0.05 | 1.6 | 57.1 |
| 87919 | < 5 | 16.9 | 2.32 | 1.61 | 6.73 | 1.32 | 2.84 | 0.2 | 62 | 150 | 725 | 5.19 | 3.6 | 52.7 | 1.8 | 1.3 | 0.6 | 0.07 | 1.12 | 24.1 | 1.15 | 0.06 | 0.2 | 42.3 |
| 87920 | < 5 | 17.6 | 2.33 | 1.99 | 6.95 | 1.28 | 2.57 | < 0.1 | 68 | 180 | 697 | 5.55 | 2.7 | 64.0 | 1.6 | 1.4 | 0.6 | 0.06 | 0.97 | 22.5 | 1.04 | 0.04 | 0.3 | 45.7 |
| 87921 | < 5 | 18.6 | 2.07 | 2.18 | 6.81 | 1.17 | 2.97 | 0.1 | 47 | 150 | 796 | 5.86 | 1.4 | 78.7 | 2.0 | 1.8 | 0.7 | 0.08 | 1.30 | 27.8 | 1.24 | 0.07 | 0.3 | 54.2 |
| 87922 | < 5 | 16.4 | 1.84 | 2.26 | 6.58 | 1.02 | 3.05 | 0.2 | 98 | 153 | 1190 | 6.14 | 2.0 | 73.9 | 2.1 | 1.6 | 0.7 | 0.12 | 1.41 | 35.1 | 1.28 | 0.10 | 0.7 | 58.2 |
| 87923 | < 5 | 16.5 | 2.31 | 2.44 | 7.12 | 1.27 | 2.97 | 0.1 | 104 | 312 | 710 | 5.59 | 3.8 | 88.3 | 1.9 | 1.3 | 0.7 | < 0.05 | 1.21 | 23.8 | 1.21 | 0.05 | 0.6 | 50.2 |
| 87924 | < 5 | 18.8 | 2.51 | 2.93 | 7.81 | 1.42 | 3.44 | 0.1 | 153 | 346 | 1060 | 6.84 | 4.2 | 118 | 2.2 | 1.6 | 0.8 | < 0.05 | 1.36 | 35.1 | 1.50 | 0.05 | 0.6 | 62.2 |
| 87925 | 23 | 17.8 | 2.24 | 3.15 | 7.13 | 0.96 | 3.82 | 0.1 | 167 | 377 | 1160 | 6.70 | 3.9 | 119 | 2.1 | 1.4 | 0.8 | < 0.05 | 1.28 | 41.9 | 1.37 | 0.05 | 0.5 | 59.6 |
| 87926 | 7 | 14.0 | 1.52 | 1.95 | 5.25 | 0.68 | 3.75 | 0.2 | 103 | 189 | 1070 | 5.10 | 1.7 | 87.1 | 1.8 | 0.9 | 0.7 | 0.09 | 1.54 | 36.3 | 1.07 | 0.05 | 1.0 | 49.8 |
| 87927 | < 5 | 13.0 | 2.48 | 1.74 | 6.96 | 1.24 | 2.29 | 0.1 | 60 | 169 | 605 | 5.14 | 2.7 | 45.7 | 2.0 | 1.1 | 0.7 | 0.05 | 0.86 | 20.8 | 1.33 | 0.05 | 0.8 | 53.3 |
| 87928 | < 5 | 9.3 | 2.85 | 1.54 | 5.76 | 0.43 | 1.87 | 0.1 | 112 | 115 | 688 | 6.85 | 1.8 | 27.6 | 2.4 | 0.9 | 0.9 | < 0.05 | 0.62 | 19.5 | 1.23 | 0.04 | 0.9 | 49.8 |
| 87929 | < 5 | 13.0 | 2.32 | 2.05 | 6.69 | 1.19 | 2.88 | 0.1 | 92 | 183 | 967 | 5.63 | 3.1 | 56.0 | 1.9 | 1.3 | 0.7 | 0.06 | 0.86 | 32.6 | 1.27 | 0.04 | 0.2 | 53.0 |
| 87930 | < 5 | 14.0 | 2.05 | 1.67 | 6.07 | 1.15 | 2.85 | 0.1 | 63 | 157 | 572 | 4.72 | 2.6 | 58.6 | 1.8 | 1.4 | 0.7 | 0.06 | 1.12 | 19.9 | 1.09 | 0.04 | 0.2 | 45.2 |
| 87931 | < 5 | 22.0 | 2.98 | 2.83 | 8.32 | 0.68 | 2.42 | 0.2 | 72 | 293 | 926 | 9.13 | 1.3 | 114 | 2.3 | 1.9 | 0.9 | < 0.05 | 1.45 | 52.4 | 1.58 | 0.03 | 0.7 | 74.9 |
| 87932 | < 5 | 14.0 | 2.76 | 1.66 | 7.23 | 1.45 | 3.22 | 0.1 | 60 | 86.7 | 802 | 5.61 | 2.7 | 42.8 | 2.6 | 2.4 | 0.9 | 0.06 | 1.00 | 27.9 | 1.37 | 0.04 | 0.5 | 51.1 |
| 87933 | < 5 | 15.1 | 2.63 | 1.35 | 6.78 | 1.16 | 2.58 | 0.3 | 45 | 87.9 | 726 | 6.25 | 2.8 | 28.0 | 2.4 | 2.8 | 0.9 | 0.12 | 1.86 | 18.3 | 1.22 | 0.04 | 0.4 | 114 |
| 87934 | 6 | 12.6 | 2.10 | 2.21 | 6.76 | 0.98 | 3.93 | 0.2 | 135 | 141 | 861 | 7.72 | 3.5 | 42.5 | 2.0 | 2.0 | 0.7 | 0.15 | 1.56 | 22.9 | 1.22 | 0.04 | 0.6 | 79.5 |
| 87935 | < 5 | 13.4 | 2.21 | 1.02 | 6.39 | 1.71 | 1.44 | 0.1 | 44 | 99.8 | 459 | 4.76 | 2.9 | 30.5 | 1.4 | 1.3 | 0.5 | 0.11 | 1.25 | 11.1 | 0.98 | 0.07 | 0.3 | 51.8 |
| 87936 | < 5 | 11.9 | 1.77 | 1.20 | 6.14 | 1.92 | 1.30 | 0.1 | 55 | 112 | 481 | 4.17 | 3.6 | 39.5 | 1.1 | 1.1 | 0.4 | 0.10 | 2.55 | 11.0 | 0.86 | 0.07 | 0.4 | 43.1 |
| 87937 | < 5 | 3.5 | 1.48 | 0.70 | 4.95 | 1.05 | 2.05 | 0.4 | 75 | 65.8 | 318 | 3.59 | 0.1 | 19.7 | 1.8 | 1.2 | 0.7 | 0.93 | 1.37 | 7.4 | 1.14 | 0.08 | 0.8 | 29.8 |
| 87938 | < 5 | 25.2 | 1.78 | 2.23 | 6.68 | 0.91 | 4.15 | 0.2 | 123 | 109 | 1080 | 8.61 | 1.7 | 60.7 | 3.5 | 5.3 | 1.3 | 0.05 | 1.50 | 33.8 | 3.10 | 0.05 | 1.1 | 102 |
| 87939 | < 5 | 22.9 | 0.94 | 5.55 | 5.32 | 1.55 | 2.50 | 0.3 | 32 | 409 | 1330 | 9.63 | 0.4 | 289 | 3.2 | 11.1 | 1.1 | 0.06 | 6.15 | 54.2 | 1.97 | 0.03 | 0.9 | 127 |
| 87940 | < 5 | 20.0 | 1.79 | 1.54 | 6.24 | 1.41 | 2.24 | 0.3 | 66 | 167 | 2910 | 5.62 | 2.1 | 78.9 | 2.1 | 1.5 | 0.8 | 0.11 | 1.84 | 25.6 | 1.35 | 0.08 | 1.0 | 67.5 |
| 87941 | < 5 | 16.3 | 2.52 | 1.37 | 6.91 | 1.63 | 1.88 | < 0.1 | 38 | 119 | 539 | 4.26 | 2.7 | 55.2 | 1.5 | 1.5 | 0.6 | 0.06 | 1.15 | 16.2 | 1.11 | 0.05 | 0.6 | 43.9 |
| 87942 | < 5 | 12.7 | 2.08 | 1.19 | 6.33 | 1.67 | 1.45 | 0.1 | 59 | 127 | 409 | 3.77 | 3.6 | 50.4 | 1.1 | 1.0 | 0.4 | < 0.05 | 1.41 | 11.4 | 0.84 | 0.07 | 0.8 | 38.7 |
| 87943 | 9 | 8.7 | 2.66 | 0.79 | 6.19 | 1.42 | 1.75 | 0.3 | 56 | 90.3 | 522 | 3.28 | 4.5 | 26.6 | 1.5 | 1.2 | 0.5 | 0.31 | 0.74 | 9.2 | 1.07 | 0.04 | 0.5 | 33.3 |
| 87944 | < 5 | 17.8 | 2.20 | 1.33 | 6.68 | 1.78 | 1.70 | < 0.1 | 33 | 120 | 640 | 4.32 | 2.4 | 54.2 | 1.5 | 1.4 | 0.6 | 0.06 | 1.65 | 15.9 | 1.20 | 0.06 | 0.6 | 49.1 |
| 87945 | < 5 | 18.7 | 2.11 | 0.96 | 6.70 | 1.77 | 1.21 | 0.1 | 39 | 77.3 | 473 | 3.61 | 2.8 | 36.5 | 1.2 | 1.2 | 0.4 | 0.06 | 1.84 | 12.1 | 0.98 | 0.08 | 0.6 | 40.8 |
| 87946 | 6 | 16.6 | 1.35 | 1.00 | 5.05 | 1.31 | 2.09 | 0.2 | 69 | 107 | 866 | 3.55 | 2.7 | 37.8 | 1.7 | 1.2 | 0.6 | 0.18 | 2.22 | 11.9 | 1.20 | 0.07 | 1.7 | 66.4 |
| 87947 | 15 | 13.4 | 2.38 | 0.69 | 4.46 | 1.16 | 1.36 | 0.1 | 66 | 94.5 | 419 | 3.04 | 4.9 | 23.1 | 0.9 | 1.1 | 0.3 | < 0.05 | 1.01 | 9.5 | 0.64 | 0.05 | 0.8 | 35.4 |
| 87948 | 6 | 15.1 | 1.89 | 0.91 | 6.05 | 1.52 | 1.33 | 0.2 | 70 | 93.1 | 363 | 3.37 | 4.0 | 30.8 | 1.1 | 1.1 | 0.4 | 0.07 | 1.60 | 10.2 | 0.88 | 0.06 | 0.7 | 35.3 |
| 87949 | < 5 | 18.5 | 1.92 | 0.97 | 5.93 | 1.51 | 1.59 | 0.2 | 54 | 87.0 | 604 | 3.71 | 1.3 | 36.0 | 1.3 | 1.1 | 0.5 | 0.10 | 1.69 | 13.5 | 1.08 | 0.08 | 0.6 | 37.9 |
| 87950 | < 5 | 15.7 | 2.07 | 0.98 | 6.14 | 1.52 | 1.70 | < 0.1 | 49 | 75.5 | 466 | 3.32 | 2.4 | 34.5 | 1.5 | 1.1 | 0.6 | 0.09 | 1.61 | 10.8 | 1.16 | 0.05 | 0.6 | 44.3 |
| 87951 | < 5 | 13.4 | 2.04 | 0.86 | 6.52 | 1.68 | 1.33 | < 0.1 | 41 | 82.1 | 373 | 3.61 | 2.8 | 27.8 | 1.1 | 1.1 | 0.4 | 0.14 | 1.61 | 8.7 | 0.89 | 0.06 | 0.8 | 34.4 |
| 87952 | < 5 | 13.9 | 2.36 | 0.93 | 6.84 | 1.92 | 1.52 | 0.2 | 50 | 80.2 | 587 | 3.63 | 4.1 | 34.0 | 1.3 | 1.1 | 0.5 | 0.09 | 1.36 | 12.0 | 1.11 | 0.05 | 0.7 | 40.5 |
| 87953 | < 5 | 14.5 | 1.77 | 2.19 | 5.25 | 1.11 | 2.53 | 0.2 | 63 | 305 | 657 | 4.19 | 3.1 | 136 | 1.9 | 1.7 | 0.7 | 0.10 | 1.57 | 22.6 | 1.36 | 0.04 | 1.2 | 46.2 |
| 87954 | 5 | 17.3 | 2.07 | 1.60 | 6.57 | 1.31 | 2.49 | 0.1 | 56 | 198 | 1420 | 4.99 | 2.3 | 70.9 | 2.6 | 1.4 | 0.9 | 0.14 | 1.32 | 20.8 | 1.48 | 0.06 | 0.9 | 51.9 |
| 87955 | 5 | 16.7 | 2.10 | 1.06 | 6.51 | 1.37 | 1.79 | 0.2 | 45 | 109 | 545 | 4.01 | 2.2 | 37.5 | 1.4 | 1.2 | 0.5 | 0.07 | 0.89 | 15.0 | 1.10 | 0.05 | 0.8 | 37.0 |
| 87956 | < 5 | 41.5 | 2.23 | 2.56 | 8.00 | 0.53 | 3.56 | 0.3 | 52 | 103 | 947 | 9.18 | 1.5 | 51.4 | 2.4 | 1.1 | 0.9 | < 0.05 | 1.14 | 36.2 | 1.96 | 0.04 | 1.2 | 76.8 |
| 87957 | 17 | 11.5 | 1.54 | 1.42 | 4.94 | 0.93 | 2.66 | 0.1 | 103 | 147 | 678 | 3.86 | 3.3 | 45.9 | 1.4 | 1.1 | 0.5 | < 0.05 | 1.10 | 19.9 | 1.09 | 0.03 | 0.7 | 39.1 |
| 87958 | 5 | 21.5 | 2.10 | 2.05 | 6.73 | 1.12 | 3.04 | 0.1 | 90 | 288 | 871 | 5.92 | 3.9 | 104 | 2.1 | 1.4 | 0.8 | 0.07 | 1.43 | 35.3 | 1.74 | 0.05 | 0.8 | 50.7 |
| 87959 | 10 | 17.7 | 1.10 | 2.47 | 5.12 | 0.26 | 5.53 | 0.4 | 104 | 422 | 1450 | 5.87 | 0.3 | 128 | 1.9 | 1.2 | 0.7 | 0.05 | 1.83 | 41.4 | 1.67 | 0.02 | 1.0 | 54.6 |
| 87960 | < 5 | 10.8 | 0.96 | 1.34 | 3.61 | 0.54 | 4.01 | 0.2 | 72 | 156 | 956 | 4.74 | 0.5 | 62.8 | 1.6 | 1.0</ | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87961 | < 5 | 18.3 | 1.90 | 2.20 | 6.50 | 1.11 | 3.07 | 0.2 | 91 | 262 | 1320 | 6.05 | 2.4 | 82.4 | 2.3 | 1.5 | 0.9 | 0.10 | 1.71 | 35.7 | 2.33 | 0.08 | 1.1 | 69.6 |
| 87962 | < 5 | 16.3 | 1.89 | 1.11 | 5.88 | 1.52 | 2.24 | 0.2 | 56 | 110 | 794 | 3.66 | 2.5 | 43.5 | 1.5 | 1.3 | 0.5 | 0.12 | 1.87 | 13.5 | 1.15 | 0.06 | 1.1 | 46.0 |
| 87963 | < 5 | 17.8 | 2.17 | 1.39 | 6.69 | 1.49 | 2.17 | 0.1 | 73 | 126 | 619 | 5.66 | 4.0 | 51.1 | 1.5 | 1.4 | 0.6 | < 0.05 | 1.27 | 17.5 | 1.39 | 0.05 | 1.0 | 58.4 |
| 87964 | 10 | 19.7 | 2.06 | 1.51 | 6.67 | 1.53 | 2.01 | 0.1 | 42 | 130 | 576 | 4.98 | 2.6 | 57.3 | 1.4 | 1.3 | 0.5 | 0.11 | 1.39 | 16.9 | 1.19 | 0.06 | 0.3 | 53.1 |
| 87965 | 10 | 17.2 | 2.01 | 2.16 | 6.95 | 0.85 | 5.07 | 0.1 | 68 | 210 | 851 | 5.50 | 2.1 | 79.5 | 2.2 | 1.3 | 0.8 | < 0.05 | 0.80 | 28.8 | 1.58 | 0.04 | 0.8 | 57.0 |
| 87966 | 7 | 13.1 | 2.01 | 0.75 | 4.59 | 1.16 | 1.36 | 0.2 | 41 | 96.2 | 317 | 2.90 | 4.2 | 27.6 | 0.9 | 1.1 | 0.3 | 0.12 | 1.69 | 8.4 | 0.64 | 0.06 | 0.4 | 32.4 |
| 87967 | < 5 | 16.5 | 2.10 | 1.27 | 6.41 | 1.42 | 1.72 | 0.1 | 67 | 131 | 624 | 4.10 | 4.3 | 47.8 | 1.5 | 1.3 | 0.6 | < 0.05 | 1.33 | 14.7 | 1.21 | 0.05 | 0.8 | 44.8 |
| 87968 | 8 | 17.8 | 2.11 | 0.97 | 6.68 | 1.55 | 1.26 | 0.1 | 69 | 73.4 | 395 | 3.50 | 3.2 | 30.5 | 1.1 | 1.2 | 0.4 | 0.08 | 1.63 | 9.6 | 0.88 | 0.06 | 0.2 | 43.0 |
| 87969 | < 5 | 18.1 | 1.90 | 0.97 | 6.06 | 1.59 | 1.44 | 0.1 | 52 | 65.3 | 564 | 3.83 | 1.0 | 35.1 | 1.7 | 1.2 | 0.7 | 0.34 | 1.72 | 14.3 | 1.32 | 0.07 | 0.6 | 46.5 |
| 87970 | 7 | 19.8 | 1.97 | 1.07 | 6.29 | 1.92 | 1.30 | 0.1 | 46 | 65.2 | 701 | 3.55 | 3.0 | 33.6 | 1.4 | 1.2 | 0.5 | 0.09 | 2.09 | 12.9 | 1.13 | 0.08 | 0.4 | 50.7 |
| 87971 | < 5 | 14.2 | 1.74 | 1.24 | 5.87 | 1.30 | 1.59 | 0.2 | 63 | 123 | 523 | 5.02 | 3.1 | 42.8 | 1.4 | 1.3 | 0.5 | < 0.05 | 1.20 | 16.3 | 1.21 | 0.06 | 0.5 | 49.2 |
| 87972 | 6 | 5.5 | 1.94 | 0.73 | 5.45 | 1.39 | 1.35 | < 0.1 | 21 | 67.0 | 265 | 3.03 | 1.1 | 20.1 | 1.2 | 1.0 | 0.4 | 0.05 | 1.10 | 6.9 | 0.98 | 0.06 | 0.5 | 25.5 |
| 87973 | 9 | 17.3 | 1.81 | 1.34 | 5.82 | 1.15 | 0.94 | 0.3 | 32 | 295 | 1310 | 7.75 | 2.5 | 22.1 | 2.6 | 1.3 | 0.9 | 0.09 | 1.17 | 17.8 | 1.46 | 0.04 | 1.0 | 56.3 |
| 87974 | 10 | 5.0 | 2.20 | 0.88 | 5.47 | 1.47 | 1.25 | < 0.1 | 21 | 99.6 | 291 | 2.86 | 2.8 | 35.0 | 1.2 | 0.9 | 0.4 | < 0.05 | 1.11 | 7.3 | 0.88 | 0.07 | 0.3 | 25.8 |
| 87975 | 6 | 15.4 | 1.80 | 1.53 | 5.89 | 1.56 | 1.52 | 0.2 | 36 | 130 | 551 | 4.30 | 2.1 | 63.3 | 1.5 | 1.3 | 0.5 | 0.07 | 1.57 | 17.5 | 1.13 | 0.08 | < 0.1 | 48.1 |
| 87976 | < 5 | 14.3 | 1.79 | 1.81 | 5.06 | 0.92 | 1.75 | 0.2 | 124 | 208 | 876 | 5.07 | 5.0 | 86.7 | 1.6 | 1.3 | 0.6 | < 0.05 | 1.04 | 28.2 | 1.13 | 0.06 | 0.7 | 55.1 |
| 87977 | < 5 | 14.9 | 1.73 | 4.85 | 5.07 | 0.64 | 3.46 | < 0.1 | 50 | 635 | 978 | 7.11 | 1.0 | 337 | 2.0 | 2.1 | 0.8 | 0.05 | 1.22 | 46.4 | 1.59 | 0.03 | 0.6 | 66.3 |
| 87978 | < 5 | 13.0 | 2.27 | 1.51 | 6.86 | 1.25 | 1.53 | 0.2 | 27 | 92.0 | 437 | 3.76 | 0.9 | 54.2 | 1.5 | 1.7 | 0.5 | 0.10 | 1.98 | 14.5 | 1.11 | 0.07 | 1.0 | 41.4 |
| 87979 | < 5 | 18.1 | 1.70 | 2.05 | 6.28 | 1.50 | 1.98 | 0.3 | 38 | 154 | 589 | 4.91 | 1.4 | 85.8 | 1.4 | 1.3 | 0.5 | 0.05 | 1.47 | 20.1 | 1.21 | 0.07 | 0.5 | 58.5 |
| 87980 | 6 | 18.2 | 2.04 | 1.96 | 6.42 | 1.63 | 1.99 | < 0.1 | 46 | 168 | 751 | 4.94 | 2.5 | 92.9 | 1.8 | 1.4 | 0.7 | 0.07 | 1.44 | 21.1 | 1.52 | 0.06 | 0.8 | 57.8 |
| 87981 | 6 | 10.9 | 2.15 | 1.15 | 5.85 | 1.47 | 1.87 | 0.1 | 35 | 115 | 509 | 3.48 | 2.4 | 48.7 | 1.6 | 1.1 | 0.6 | 0.08 | 0.98 | 12.9 | 1.34 | 0.05 | 0.2 | 39.3 |
| 87982 | 6 | 9.9 | 2.02 | 0.92 | 5.80 | 1.47 | 1.46 | 0.1 | 38 | 108 | 307 | 2.71 | 3.4 | 34.9 | 1.2 | 0.8 | 0.4 | 0.20 | 1.42 | 7.9 | 1.08 | 0.07 | 0.1 | 31.4 |
| 87983 | 6 | 12.0 | 1.94 | 1.19 | 5.54 | 1.31 | 1.73 | < 0.1 | 35 | 121 | 418 | 4.16 | 2.5 | 48.8 | 1.3 | 1.1 | 0.5 | 0.07 | 1.74 | 12.3 | 1.14 | 0.05 | 0.3 | 37.2 |
| 87984 | 14 | 19.7 | 1.89 | 2.00 | 6.31 | 1.32 | 2.63 | 0.2 | 48 | 156 | 832 | 5.83 | 2.9 | 77.0 | 1.6 | 1.9 | 0.6 | 0.10 | 1.45 | 29.6 | 1.27 | 0.05 | 0.5 | 74.2 |
| 87985 | 10 | 14.1 | 2.07 | 1.44 | 6.02 | 1.44 | 2.04 | 0.2 | 67 | 136 | 487 | 4.98 | 3.3 | 47.1 | 1.4 | 1.3 | 0.5 | 0.10 | 1.23 | 13.7 | 1.06 | 0.05 | 0.5 | 40.4 |
| 87986 | 6 | 8.8 | 2.01 | 0.85 | 5.30 | 1.45 | 1.53 | 0.1 | 27 | 81.1 | 314 | 3.17 | 2.2 | 28.7 | 1.2 | 1.2 | 0.5 | < 0.05 | 0.89 | 7.7 | 0.96 | 0.05 | 0.3 | 27.3 |
| 87987 | 10 | 5.3 | 1.96 | 1.32 | 3.89 | 0.88 | 3.46 | 0.1 | 85 | 137 | 530 | 3.60 | 3.6 | 36.0 | 1.4 | 1.2 | 0.5 | 0.06 | 0.60 | 13.7 | 0.84 | 0.06 | 0.5 | 32.1 |
| 87988 | < 5 | 26.0 | 1.77 | 3.15 | 6.44 | 1.03 | 3.65 | 0.1 | 89 | 339 | 730 | 5.27 | 2.1 | 127 | 1.5 | 1.5 | 0.6 | 0.09 | 1.74 | 34.1 | 1.32 | 0.06 | 0.5 | 50.4 |
| 87989 | < 5 | 39.2 | 0.80 | 7.32 | 5.94 | 0.40 | 7.03 | 0.2 | 173 | 735 | 1350 | 8.13 | 2.2 | 282 | 1.4 | 1.1 | 0.5 | < 0.05 | 2.36 | 54.4 | 0.96 | < 0.02 | 0.8 | 64.8 |
| 87990 | 6 | 19.9 | 2.01 | 3.23 | 6.45 | 1.39 | 3.19 | 0.1 | 63 | 307 | 590 | 4.42 | 2.8 | 146 | 1.4 | 1.8 | 0.5 | 0.11 | 3.28 | 23.0 | 1.07 | 0.05 | 0.4 | 41.3 |
| 87991 | 9 | 30.6 | 2.42 | 2.03 | 8.18 | 1.48 | 2.14 | 0.2 | 87 | 124 | 1640 | 6.68 | 2.1 | 73.8 | 2.1 | 2.0 | 0.8 | < 0.05 | 1.46 | 40.8 | 1.73 | 0.05 | 0.8 | 78.4 |
| 87992 | < 5 | 27.1 | 1.99 | 1.72 | 6.93 | 1.82 | 1.53 | < 0.1 | 94 | 157 | 597 | 4.57 | 3.6 | 64.7 | 1.6 | 1.6 | 0.6 | < 0.05 | 2.06 | 18.0 | 1.21 | 0.08 | 0.5 | 63.2 |
| 87993 | < 5 | 25.2 | 2.20 | 1.46 | 7.02 | 1.70 | 1.45 | < 0.1 | 45 | 104 | 793 | 4.48 | 2.0 | 48.4 | 1.5 | 1.6 | 0.6 | 0.23 | 1.82 | 21.1 | 1.34 | 0.06 | 0.5 | 57.8 |
| 87994 | 61 | 19.3 | 1.99 | 1.48 | 5.64 | 2.68 | 4.95 | 0.6 | 82 | 44.8 | 806 | 2.96 | 1.9 | 23.9 | 0.8 | 0.9 | 0.3 | 0.76 | 2.24 | 36.6 | 0.68 | 1.63 | 3.2 | 148 |
| 87995 | 7 | 20.5 | 2.24 | 1.39 | 6.61 | 1.59 | 1.55 | 0.1 | 48 | 95.0 | 758 | 4.46 | 2.4 | 48.9 | 1.7 | 1.6 | 0.6 | 0.05 | 1.47 | 20.9 | 1.47 | 0.06 | 0.7 | 57.0 |
| 87996 | 5 | 18.7 | 2.32 | 1.16 | 4.39 | 0.97 | 1.52 | 0.1 | 66 | 107 | 837 | 5.04 | 2.5 | 39.9 | 1.1 | 1.5 | 0.4 | 0.06 | 1.05 | 22.6 | 0.71 | 0.05 | 0.2 | 65.0 |
| 87997 | 15 | 20.9 | 2.18 | 1.17 | 6.50 | 1.42 | 1.35 | 0.1 | 78 | 108 | 564 | 3.91 | 3.3 | 40.7 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.73 | 15.8 | 1.10 | 0.06 | 0.5 | 56.2 |
| 87998 | 8 | 25.5 | 2.55 | 1.34 | 7.06 | 1.73 | 1.63 | 0.3 | 71 | 112 | 979 | 4.62 | 2.8 | 52.3 | 1.7 | 2.0 | 0.6 | 0.13 | 2.01 | 21.5 | 1.48 | 0.06 | 0.9 | 70.7 |
| 87999 | < 5 | 23.3 | 1.47 | 1.23 | 5.67 | 1.45 | 2.26 | 0.2 | 54 | 106 | 533 | 3.83 | 1.2 | 47.2 | 1.6 | 1.3 | 0.6 | 0.11 | 1.98 | 15.6 | 1.40 | 0.05 | 0.9 | 62.2 |
| 88000 | 8 | 20.4 | 2.43 | 1.45 | 6.88 | 1.61 | 1.58 | 0.1 | 68 | 120 | 748 | 4.84 | 3.0 | 52.2 | 1.8 | 1.7 | 0.7 | < 0.05 | 1.70 | 20.7 | 1.67 | 0.06 | 0.9 | 61.4 |
| 87701 | 13 | 22.3 | 2.49 | 1.44 | 7.05 | 1.66 | 1.33 | 0.1 | 98 | 146 | 672 | 4.79 | 3.4 | 58.2 | 1.6 | 2.0 | 0.6 | < 0.05 | 1.98 | 20.0 | 1.57 | 0.09 | 1.1 | 64.3 |
| 87702 | 8 | 19.0 | 2.27 | 1.24 | 6.37 | 1.72 | 1.24 | 0.1 | 68 | 120 | 599 | 3.94 | 3.2 | 50.4 | 1.5 | 1.8 | 0.6 | < 0.05 | 1.78 | 16.2 | 1.41 | 0.06 | 0.9 | 55.5 |
| 87703 | 6 | 22.5 | 2.18 | 1.32 | 6.83 | 1.58 | 1.26 | 0.1 | 85 | 125 | 741 | 4.81 | 3.3 | 55.9 | 1.5 | 1.7 | 0.6 | < 0.05 | 1.84 | 21.7 | 1.49 | 0.06 | 1.1 | 61.6 |
| 87704 | 8 | 21.8 | 2.40 | 1.52 | 6.63 | 1.51 | 1.46 | 0.2 | 84 | 134 | 846 | 5.26 | 3.2 | 65.0 | 2.1 | 2.1 | 0.8 | 0.05 | 1.90 | 23.3 | 2.08 | 0.06 | 1.2 | 68.3 |
| 87705 | 11 | 23.4 | 2.05 | 1.73 | 4.42 | 1.39 | 2.08 | 0.2 | 80 | 149 | 800 | 4.88 | 2.8 | 67.0 | 1.4 | 1.9 | 0.5 | 0.06 | 1.75 | 22.2 | 1.16 | 0.06 | 1.5 | 72.8 |
| 87706 | 8 | 26.0 | 2.11 | 1.43 | 6.09 | 1.31 | 1.35 | 0.2 | 71 | 167 | 923 | 4.48 | 3.1 | 61.3 | 1.7 | 2.0 | 0.6 | < 0.05 | 2.17 | 19.0 | 1.50 | 0.08 | 1.7 | 75.1 |
| 87707 | 5 | 26.1 | 1.79 | 1.25 | 5.87 | 1.64 | 1.71 | 0.3 | 64 | 86.0 | 680 | 4.16 | 1.7 | 51.8 | 1.7 | 1.5 | 0.7 | 0.09 | 2.23 | 17.6 | 1.55 | 0.08 | 1.1 | 70.9 |
| 87708 | 6 | 19.8 | 2.16 | 1.16 | 6.40 | 1.84 | 1.29 | 0.1 | 37 | 78.4 | 656 | 3.95 | 1.4 | 45.8 | 1.6 | 1.5 | 0.6 | < 0.05 | 2.00 | 16.0 | 1.41 | 0.07 | 0.6 | 49.7 |
| 87709 | 8 | 27.7 | 1.70 | 1.13 | 7.28 | 1.60 | 0.87 | 0.2 | 69 | 111 | 758 | 4.81 | 2.9 | 51.1 | 1.6 | 1.7 | 0.6 | < 0.05 | 2.07 | 23.1 | 1.51 | 0.07 | 1.0 | 48.8 |
| 87710 | < 5 | 17.2 | 2.08 | 0.87 | 6.18 | 1.38 | 1.18 | 0.2 | 50 | 92.3 | 408 | 4.65 | 2.5 | 29.9 | 1.3 | 1.4 | 0.5 | 0.12 | 1.72 | 11.8 | 1.10 | 0.07 | 1.0 | 48.2 |
| 87711 | < 5 | 34.9 | 2.04 | 1.33 | 6.55 | 1.07 | 1.19 | 0.2 | 67 | 234 | 648 | 7.80 | 3.2 | 52.1 | 1.8 | 1.9 | 0.7 | < 0.05 | 1.20 | 24.8 | 1.48 | 0.08 | 1.3 | 94.2 |
| 87712 | 6 | 16.3 | 2.60 | 1.49 | 6.99 | 0.77 | 2.05 | 0.1 | 42 | 87.5 | 707 | 5.58 | 1.1 | 46.7 | 1.7 | 1.4 | 0.7 | 0.06 | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87713 | 11 | 13.3 | > 3.00 | 1.63 | 7.94 | 1.21 | 0.83 | 0.1 | 52 | 84.2 | 406 | 6.71 | 1.0 | 57.4 | 1.5 | 3.5 | 0.6 | < 0.05 | 1.25 | 24.2 | 1.79 | 0.02 | 1.0 | 104 |
| 87714 | 7 | 14.4 | 2.34 | 0.92 | 6.82 | 0.71 | 1.75 | 0.4 | 33 | 74.8 | 737 | 5.59 | 1.0 | 38.3 | 2.0 | 1.9 | 0.8 | 0.08 | 0.91 | 25.5 | 2.04 | 0.05 | 1.0 | 57.3 |
| 87715 | 9 | 18.9 | 2.21 | 1.46 | 4.27 | 0.66 | 1.56 | 0.2 | 88 | 179 | 989 | 6.08 | 2.0 | 60.1 | 1.3 | 2.0 | 0.5 | < 0.05 | 0.67 | 33.5 | 1.15 | 0.04 | 1.0 | 70.0 |
| 87716 | 35 | 22.4 | 2.40 | 1.97 | 6.58 | 1.10 | 2.07 | 0.2 | 100 | 171 | 1140 | 6.02 | 1.9 | 80.7 | 2.2 | 2.1 | 0.9 | < 0.05 | 1.32 | 35.6 | 2.09 | 0.04 | 1.2 | 79.1 |
| 87717 | 31 | 23.8 | 2.71 | 1.79 | 6.63 | 1.07 | 1.27 | 0.1 | 80 | 197 | 670 | 5.92 | 2.1 | 80.4 | 1.7 | 2.7 | 0.6 | < 0.05 | 1.57 | 29.2 | 1.63 | 0.04 | 1.0 | 71.4 |
| 87718 | 19 | 14.0 | 2.78 | 1.45 | 6.36 | 0.76 | 1.42 | 0.2 | 57 | 128 | 595 | 6.16 | 1.5 | 51.1 | 1.5 | 2.0 | 0.6 | < 0.05 | 1.31 | 23.2 | 1.24 | 0.10 | 1.0 | 61.4 |
| 87719 | < 5 | 17.7 | 1.54 | 1.25 | 4.38 | 0.73 | 2.49 | 0.3 | 94 | 116 | 544 | 4.90 | 1.3 | 52.8 | 1.8 | 1.7 | 0.7 | 0.09 | 1.08 | 20.0 | 1.51 | 0.03 | 1.8 | 77.6 |
| 87720 | < 5 | 18.7 | 2.65 | 1.94 | 6.79 | 0.37 | 2.71 | 0.2 | 67 | 81.1 | 1130 | 6.68 | 1.0 | 50.6 | 1.9 | 1.5 | 0.8 | < 0.05 | 0.57 | 36.5 | 1.67 | 0.03 | 1.0 | 74.9 |
| 87721 | < 5 | 24.2 | 2.72 | 2.40 | 7.25 | 1.29 | 2.17 | 0.2 | 100 | 163 | 937 | 6.80 | 2.5 | 95.4 | 2.3 | 2.2 | 0.9 | < 0.05 | 1.53 | 36.8 | 2.52 | 0.05 | 1.3 | 95.8 |
| 87722 | 6 | 20.5 | 2.54 | 2.02 | 6.45 | 1.02 | 2.03 | 0.2 | 58 | 139 | 950 | 6.28 | 1.5 | 79.4 | 2.4 | 2.0 | 0.9 | 0.06 | 1.29 | 32.0 | 2.50 | 0.05 | 1.1 | 87.3 |
| 87723 | < 5 | 23.7 | 2.55 | 2.06 | 6.63 | 0.83 | 2.21 | 0.2 | 85 | 144 | 1050 | 6.76 | 2.1 | 82.3 | 2.5 | 2.0 | 1.0 | < 0.05 | 1.35 | 35.5 | 2.90 | 0.05 | 1.1 | 88.7 |
| 87724 | 7 | 27.2 | 2.48 | 2.20 | 6.49 | 0.74 | 2.49 | 0.3 | 102 | 158 | 3570 | 6.64 | 2.1 | 82.6 | 2.4 | 1.8 | 0.9 | < 0.05 | 1.44 | 35.9 | 2.84 | 0.07 | 1.9 | 115 |
| 87725 | 6 | 18.3 | > 3.00 | 1.77 | 4.64 | 0.41 | 2.07 | 0.2 | 171 | 126 | 896 | 6.98 | 2.6 | 54.4 | 1.3 | 1.6 | 0.5 | < 0.05 | 0.83 | 35.9 | 0.67 | 0.05 | 1.5 | 82.2 |
| 87726 | < 5 | 19.4 | 2.78 | 1.76 | 6.87 | 0.59 | 2.61 | 0.2 | 53 | 221 | 874 | 6.36 | 1.7 | 79.9 | 2.2 | 3.3 | 0.9 | 0.07 | 1.43 | 33.8 | 2.47 | 0.05 | 1.0 | 91.6 |
| 87727 | 7 | 20.0 | 2.91 | 2.19 | 6.89 | 0.81 | 2.10 | 0.2 | 67 | 195 | 1200 | 7.45 | 0.6 | 102 | 2.5 | 2.7 | 1.0 | < 0.05 | 1.34 | 41.4 | 3.06 | 0.05 | 1.3 | 92.3 |
| 87728 | 24 | 21.4 | 2.66 | 2.05 | 6.48 | 1.12 | 1.87 | 0.2 | 65 | 214 | 844 | 5.80 | 1.5 | 108 | 2.3 | 2.4 | 0.9 | 0.07 | 1.43 | 32.1 | 2.52 | 0.06 | 1.2 | 95.2 |
| 87729 | 6 | 16.2 | 2.55 | 1.38 | 6.27 | 1.01 | 1.47 | 0.1 | 54 | 226 | 496 | 4.92 | 2.0 | 53.6 | 1.8 | 1.9 | 0.7 | 0.05 | 1.98 | 18.3 | 1.41 | 0.08 | 1.0 | 57.3 |
| 87730 | < 5 | 6.7 | > 3.00 | 1.68 | 7.24 | 0.32 | 0.50 | 0.1 | 52 | 119 | 335 | 3.87 | 2.9 | 50.1 | 0.9 | 0.9 | 0.3 | 0.11 | 0.50 | 22.0 | 0.91 | < 0.02 | 0.9 | 51.0 |
| 87731 | 11 | 28.3 | 2.40 | 1.82 | 7.30 | 1.12 | 1.99 | 0.2 | 122 | 201 | 864 | 6.32 | 3.1 | 67.5 | 2.8 | 3.8 | 1.1 | < 0.05 | 2.10 | 26.1 | 2.94 | 0.10 | 1.3 | 92.4 |
| 87732 | 6 | 39.0 | 0.92 | 1.71 | 4.45 | 1.22 | 4.44 | 1.4 | 180 | 176 | 3380 | 11.0 | 2.1 | 74.7 | 12.2 | 11.0 | 5.2 | < 0.05 | 1.48 | 40.1 | 16.3 | 0.48 | 3.7 | 363 |
| 87733 | < 5 | 22.3 | 2.67 | 1.41 | 4.59 | 0.94 | 1.21 | 0.2 | 140 | 187 | 938 | 5.16 | 4.8 | 71.0 | 1.9 | 2.4 | 0.7 | < 0.05 | 1.38 | 22.6 | 2.08 | 0.07 | 1.7 | 77.9 |
| 87734 | 6 | 26.4 | 1.99 | 1.53 | 6.63 | 1.31 | 1.34 | 0.1 | 89 | 144 | 617 | 4.43 | 2.8 | 57.4 | 1.4 | 1.5 | 0.5 | 0.06 | 2.09 | 15.6 | 1.13 | 0.08 | 0.8 | 63.7 |
| 87735 | < 5 | 20.1 | 2.36 | 1.27 | 6.42 | 1.51 | 1.29 | < 0.1 | 58 | 99.4 | 541 | 4.19 | 0.6 | 47.4 | 1.6 | 1.5 | 0.6 | < 0.05 | 1.60 | 14.6 | 1.48 | 0.06 | 0.7 | 51.2 |
| 87736 | 9 | 25.8 | 1.94 | 1.37 | 5.74 | 1.39 | 1.92 | 0.4 | 92 | 133 | 1290 | 5.68 | 2.1 | 83.6 | 3.7 | 3.3 | 1.5 | 0.14 | 2.12 | 26.2 | 5.09 | 0.17 | 1.3 | 128 |
| 87737 | < 5 | 21.8 | > 3.00 | 1.46 | 6.20 | 1.15 | 1.18 | 0.3 | 71 | 119 | 1200 | 6.00 | 2.4 | 65.4 | 2.2 | 2.6 | 0.9 | 0.07 | 1.62 | 29.6 | 2.47 | 0.06 | 1.0 | 94.0 |
| 87738 | < 5 | 21.1 | 2.85 | 1.54 | 6.29 | 1.45 | 1.69 | 0.2 | 98 | 136 | 741 | 5.32 | 3.6 | 60.2 | 2.1 | 2.3 | 0.8 | 0.07 | 1.83 | 22.7 | 2.16 | 0.07 | 1.3 | 85.7 |
| 87739 | 9 | 23.3 | 2.67 | 1.91 | 6.22 | 1.68 | 2.19 | 0.2 | 106 | 168 | 752 | 5.55 | 3.2 | 86.3 | 2.4 | 3.4 | 1.0 | 0.07 | 1.83 | 24.7 | 2.77 | 0.08 | 1.1 | 97.1 |
| 87740 | < 5 | 60.3 | 1.93 | 1.58 | 6.40 | 0.56 | 1.81 | 0.2 | 93 | 366 | 371 | 6.66 | 1.7 | 150 | 3.9 | 11.6 | 1.6 | < 0.05 | 2.08 | 57.9 | 4.41 | 0.16 | 1.9 | 134 |
| 87741 | 8 | 28.2 | 2.39 | 1.06 | 5.36 | 0.95 | 1.17 | 0.2 | 61 | 253 | 851 | 7.46 | 2.5 | 108 | 2.8 | 4.0 | 1.2 | 0.07 | 1.44 | 34.9 | 3.93 | 0.09 | 1.2 | 81.0 |
| 87742 | 7 | 16.6 | > 3.00 | 1.25 | 5.80 | 1.32 | 1.44 | 0.2 | 135 | 86.4 | 1910 | 7.01 | 2.5 | 66.3 | 3.8 | 2.8 | 1.4 | < 0.05 | 1.25 | 33.9 | 4.36 | 0.05 | 1.0 | 107 |
| 87743 | 6 | 14.3 | 2.73 | 1.50 | 5.67 | 1.12 | 1.37 | 0.1 | 79 | 148 | 902 | 6.10 | 2.5 | 76.6 | 1.7 | 2.4 | 0.6 | 0.10 | 1.26 | 29.7 | 1.73 | 0.06 | 0.6 | 70.7 |
| 87744 | 14 | 6.4 | > 3.00 | 0.61 | 3.86 | 1.06 | 0.54 | 0.1 | 48 | 117 | 219 | 4.17 | 3.4 | 36.8 | 0.7 | 1.4 | 0.3 | 0.10 | 1.09 | 16.1 | 0.78 | 0.03 | 0.2 | 53.6 |
| 87745 | 6 | 12.7 | 2.06 | 0.78 | 5.60 | 1.33 | 1.17 | < 0.1 | 46 | 79.1 | 353 | 3.76 | 2.1 | 25.4 | 1.3 | 1.3 | 0.4 | < 0.05 | 1.12 | 10.4 | 0.98 | 0.04 | 0.4 | 77.8 |
| 87746 | < 5 | 8.7 | 2.18 | 0.66 | 5.63 | 1.35 | 1.01 | < 0.1 | 34 | 75.8 | 276 | 3.21 | 0.2 | 20.5 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.16 | 7.1 | 0.81 | 0.04 | 0.5 | 30.1 |
| 87747 | < 5 | 8.8 | 2.09 | 0.59 | 5.40 | 1.56 | 1.04 | < 0.1 | 21 | 44.6 | 261 | 2.36 | 0.9 | 13.8 | 1.4 | 1.0 | 0.5 | < 0.05 | 1.23 | 6.2 | 1.05 | 0.05 | 0.3 | 25.6 |
| 87748 | 6 | 13.2 | 2.12 | 0.88 | 5.66 | 1.45 | 1.30 | 0.1 | 41 | 88.3 | 493 | 3.80 | 2.4 | 29.7 | 1.8 | 1.4 | 0.7 | 0.06 | 1.05 | 14.1 | 1.39 | 0.07 | 0.6 | 42.1 |
| 87749 | < 5 | 12.6 | 1.99 | 0.71 | 5.05 | 1.20 | 0.81 | 0.3 | 41 | 233 | 433 | 3.91 | 2.0 | 27.9 | 2.1 | 2.3 | 0.7 | < 0.05 | 1.19 | 12.5 | 1.28 | 0.06 | 0.8 | 45.1 |
| 87750 | < 5 | 10.5 | 1.92 | 0.50 | 5.60 | 1.57 | 0.94 | 0.2 | 25 | 55.6 | 235 | 2.52 | 2.2 | 14.1 | 1.1 | 1.3 | 0.4 | 0.08 | 1.37 | 6.8 | 0.80 | 0.07 | 0.2 | 26.4 |
| 87751 | 6 | 13.2 | 1.84 | 0.79 | 5.23 | 1.45 | 1.42 | 0.3 | 49 | 109 | 427 | 3.03 | 2.9 | 29.9 | 1.6 | 1.4 | 0.6 | 0.08 | 1.42 | 10.5 | 1.34 | 0.06 | 0.6 | 44.6 |
| 87752 | < 5 | 11.8 | 2.09 | 0.68 | 5.29 | 1.48 | 1.30 | 0.2 | 35 | 116 | 610 | 3.62 | 1.1 | 22.4 | 1.3 | 1.2 | 0.4 | < 0.05 | 1.12 | 12.8 | 0.98 | 0.04 | 0.4 | 38.6 |
| 87753 | 10 | 11.0 | 2.11 | 0.75 | 5.37 | 1.52 | 1.42 | 0.1 | 56 | 68.4 | 516 | 3.28 | 4.1 | 25.8 | 1.5 | 1.3 | 0.6 | 0.12 | 1.06 | 12.3 | 1.15 | 0.06 | 0.3 | 41.3 |
| 87754 | 11 | 11.9 | 1.85 | 0.77 | 3.87 | 0.98 | 1.61 | 0.2 | 69 | 101 | 524 | 3.49 | 4.4 | 31.1 | 1.3 | 1.3 | 0.5 | 0.13 | 1.24 | 12.0 | 0.91 | 0.06 | 1.0 | 58.9 |
| 87756 | 11 | 10.0 | 1.97 | 0.59 | 5.46 | 1.15 | 1.00 | < 0.1 | 47 | 68.9 | 244 | 2.45 | 4.6 | 15.4 | 0.9 | 0.9 | 0.3 | < 0.05 | 0.97 | 5.0 | 0.74 | 0.05 | 0.7 | 25.7 |
| 87757 | < 5 | 16.4 | 2.05 | 0.73 | 5.56 | 1.24 | 1.27 | 0.1 | 66 | 128 | 419 | 3.45 | 0.4 | 22.6 | 1.3 | 1.5 | 0.4 | < 0.05 | 1.05 | 10.0 | 0.93 | 0.05 | 0.2 | 36.5 |
| 87758 | 12 | 8.3 | 0.40 | 0.33 | 2.26 | 0.49 | 10.4 | 1.2 | 348 | 57.7 | 9370 | 18.7 | < 0.1 | 29.4 | 114 | 5.1 | 32.6 | 0.31 | 0.19 | 22.9 | 52.8 | 0.48 | 11.9 | 614 |
| 87759 | 16 | 13.0 | 1.56 | 0.87 | 5.46 | 1.85 | 1.69 | 0.6 | 62 | 77.1 | 1040 | 4.59 | 2.5 | 27.1 | 2.0 | 2.1 | 0.7 | 0.06 | 1.13 | 18.3 | 1.58 | 0.05 | 0.7 | 49.1 |
| 87760 | 9 | 12.1 | 1.81 | 0.66 | 5.32 | 1.64 | 1.23 | 0.1 | 64 | 156 | 823 | 4.73 | 4.0 | 22.8 | 4.5 | 1.3 | 1.9 | < 0.05 | 1.68 | 8.8 | 5.44 | 0.11 | 1.5 | 45.8 |
| 87761 | 10 | 13.0 | 2.14 | 0.67 | 5.68 | 1.66 | 1.32 | 0.1 | 44 | 69.7 | 342 | 2.52 | 3.7 | 18.4 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.05 | 7.2 | 0.88 | 0.05 | 0.7 | 37.8 |
| 87762 | 7 | 16.5 | 1.77 | 1.24 | 5.78 | 1.60 | 1.26 | 0.3 | 80 | 91.5 | 696 | 4.42 | 3.7 | 54.5 | 2.2 | 2.0 | 0.8 | 0.13 | 2.09 | 19.6 | 2.19 | 0.08 | 0.9 | 74.9 |
| 87763 | 9 | 13.4 | 2.33 | 0.71 | 6.15 | 1.43 | 1.43 | 0.1 | 49 | 48.5 | 543 | 2.74 | 2.2 | 21.0 | 1.7 | 1.8 | 0.6 | < 0.05 | 1.23 | 8.5 | 1.26 | 0.05 | 0.4 | 72.2 |
| 87766 | < 5 | 12.6 | 2.08 | 0.60 | 5.97 | 1.66 | 1.03 | < 0.1 | 32 | 47.4 | 279 | 2.35 | 1.0 | 15.5 | 0.9 | 1.1 | 0.3 | 0.09 | 1.46 | 5.7 | 0.76 | 0.05 | 0.5 | 29.3 |
| 87767 | 6 | 11.0 | 2.19 | 0.55 | 5.99 | 1.35 | 1.11 | 0.2 | 57 | 69.0 | 302 | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87768 | 6 | 16.1 | 2.25 | 0.76 | 5.86 | 1.22 | 1.43 | 0.1 | 51 | 76.6 | 414 | 2.93 | 5.2 | 23.6 | 1.5 | 1.1 | 0.5 | 0.08 | 1.15 | 9.2 | 1.07 | 0.05 | 0.5 | 43.5 |
| 87769 | < 5 | 17.1 | 2.09 | 0.78 | 5.88 | 1.59 | 1.36 | 0.1 | 51 | 51.8 | 455 | 2.97 | < 0.1 | 23.8 | 1.4 | 1.2 | 0.5 | < 0.05 | 1.48 | 9.4 | 1.03 | 0.06 | 0.5 | 44.9 |
| 87770 | < 5 | 16.8 | 2.17 | 0.82 | 5.87 | 1.67 | 1.53 | 0.1 | 47 | 67.8 | 485 | 2.99 | 2.9 | 26.3 | 1.4 | 1.3 | 0.5 | 0.10 | 1.42 | 9.9 | 1.13 | 0.05 | 0.5 | 51.5 |
| 87771 | 18 | 16.8 | 2.09 | 1.04 | 5.83 | 1.58 | 2.11 | 0.2 | 63 | 116 | 550 | 3.42 | 4.5 | 31.2 | 1.4 | 1.3 | 0.5 | 0.07 | 1.32 | 10.3 | 0.96 | 0.08 | 1.2 | 60.5 |
| 87772 | 6 | 13.6 | 2.59 | 0.73 | 6.43 | 1.91 | 1.52 | 0.2 | 53 | 63.0 | 414 | 2.69 | 6.7 | 20.6 | 1.5 | 1.4 | 0.5 | 0.09 | 1.00 | 7.9 | 1.00 | 0.04 | 0.8 | 40.3 |
| 87773 | 9 | 15.2 | 2.29 | 0.73 | 6.10 | 1.76 | 1.30 | 0.1 | 43 | 59.3 | 393 | 2.75 | 3.9 | 23.3 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.09 | 9.0 | 0.88 | 0.05 | 0.8 | 36.7 |
| 87774 | 24 | 21.0 | 1.27 | 1.23 | 5.31 | 1.38 | 2.10 | 0.2 | 81 | 102 | 761 | 4.36 | 3.5 | 31.3 | 2.0 | 1.5 | 0.7 | 0.14 | 3.62 | 12.3 | 1.57 | 0.10 | 1.6 | 96.5 |
| 87775 | 36 | 13.1 | 2.35 | 0.70 | 4.99 | 1.04 | 1.33 | 0.1 | 64 | 79.6 | 508 | 2.88 | 5.6 | 21.2 | 1.1 | 1.2 | 0.4 | < 0.05 | 0.93 | 9.8 | 0.75 | 0.04 | 0.9 | 38.6 |
| 87776 | 10 | 6.8 | 0.50 | 0.50 | 2.32 | 0.76 | 3.19 | 0.3 | 33 | 29.4 | 324 | 1.16 | 0.8 | 10.9 | 0.8 | 0.7 | 0.3 | 0.21 | 0.95 | 4.0 | 0.52 | 0.03 | 1.1 | 19.2 |
| 87777 | 23 | 17.1 | 2.10 | 1.32 | 6.38 | 1.29 | 1.51 | 0.1 | 71 | 71.4 | 548 | 3.58 | 3.5 | 27.1 | 1.6 | 1.7 | 0.6 | 0.07 | 1.50 | 14.0 | 1.12 | 0.08 | 0.9 | 48.9 |
| 87778 | 11 | 7.6 | 2.39 | 0.51 | 6.05 | 1.68 | 1.24 | 0.1 | 56 | 48.3 | 287 | 2.52 | 3.4 | 10.8 | 1.1 | 1.1 | 0.4 | 0.05 | 0.79 | 4.5 | 0.76 | 0.03 | 0.7 | 23.8 |
| 87779 | 7 | 13.6 | 2.13 | 0.74 | 5.83 | 1.59 | 1.21 | < 0.1 | 24 | 42.9 | 323 | 3.07 | 2.5 | 16.3 | 1.2 | 1.1 | 0.4 | 0.06 | 1.60 | 6.5 | 0.90 | 0.06 | 0.6 | 33.7 |
| 87780 | 7 | 8.3 | 2.19 | 0.76 | 5.54 | 1.38 | 1.31 | < 0.1 | 23 | 53.7 | 341 | 3.09 | 2.3 | 18.4 | 1.4 | 0.9 | 0.5 | < 0.05 | 0.97 | 7.2 | 1.15 | 0.05 | 0.7 | 33.3 |
| 87781 | 28 | 34.2 | 2.55 | 0.48 | 5.87 | 1.19 | 1.19 | 0.3 | 277 | 265 | 370 | 13.6 | 7.8 | 12.5 | 58.2 | 10.2 | 22.7 | < 0.05 | 0.58 | 8.0 | 29.5 | 1.01 | 10.8 | 242 |
| 87782 | 6 | 17.3 | 2.02 | 1.28 | 6.05 | 1.42 | 1.80 | < 0.1 | 44 | 123 | 481 | 3.92 | 2.9 | 32.0 | 1.4 | 1.2 | 0.5 | < 0.05 | 1.29 | 13.3 | 1.03 | 0.05 | 0.8 | 44.0 |
| 87783 | < 5 | 15.4 | 2.75 | 0.75 | 7.13 | 1.23 | 1.48 | 0.1 | 70 | 74.5 | 353 | 3.74 | 3.7 | 19.1 | 1.6 | 0.9 | 0.6 | 0.22 | 0.95 | 10.8 | 1.02 | 0.05 | 1.1 | 37.1 |
| 87784 | 14 | 17.1 | 2.07 | 0.82 | 5.75 | 1.51 | 1.36 | 0.2 | 62 | 83.4 | 508 | 3.32 | 3.7 | 29.6 | 1.8 | 1.3 | 0.7 | 0.12 | 1.64 | 13.2 | 1.43 | 0.08 | 1.1 | 97.2 |
| 87785 | < 5 | 29.3 | 1.42 | 2.48 | 4.97 | 1.05 | 3.06 | 2.5 | 150 | 135 | 1670 | 7.78 | 2.5 | 144 | 6.8 | 2.2 | 2.8 | < 0.05 | 3.20 | 47.9 | 9.10 | 0.08 | 2.3 | 643 |
| 87786 | 13 | 15.4 | 2.24 | 1.11 | 5.86 | 1.41 | 1.73 | 0.2 | 82 | 85.3 | 651 | 4.09 | 3.8 | 33.6 | 1.6 | 1.6 | 0.6 | 0.06 | 1.20 | 15.1 | 1.28 | 0.04 | 1.2 | 65.9 |
| 87787 | 13 | 14.1 | 2.36 | 0.74 | 5.90 | 1.45 | 1.61 | 0.1 | 49 | 64.5 | 330 | 2.69 | 4.9 | 21.7 | 1.5 | 1.1 | 0.6 | 0.09 | 0.97 | 8.8 | 1.18 | 0.04 | 0.7 | 46.5 |
| 87788 | 5 | 12.2 | 2.40 | 0.75 | 6.04 | 1.78 | 1.57 | 0.1 | 45 | 54.7 | 554 | 3.04 | 1.5 | 22.6 | 1.5 | 1.4 | 0.5 | < 0.05 | 0.89 | 11.3 | 1.17 | 0.05 | 1.1 | 40.7 |
| 87789 | 9 | 12.5 | 2.37 | 0.67 | 6.12 | 1.71 | 1.34 | 0.1 | 41 | 48.8 | 341 | 2.97 | 0.9 | 20.0 | 1.3 | 1.2 | 0.4 | < 0.05 | 0.85 | 7.8 | 0.92 | 0.03 | 0.8 | 39.5 |
| 87790 | < 5 | 10.5 | 2.11 | 0.58 | 5.27 | 1.40 | 1.46 | < 0.1 | 21 | 44.1 | 278 | 2.30 | 2.3 | 14.8 | 1.1 | 1.1 | 0.4 | 0.07 | 1.06 | 6.5 | 0.95 | 0.05 | 0.4 | 29.1 |
| 87791 | 9 | 8.8 | 2.18 | 0.68 | 5.70 | 1.68 | 1.13 | < 0.1 | 24 | 57.0 | 353 | 3.47 | 3.1 | 16.4 | 1.1 | 1.1 | 0.4 | 0.10 | 1.43 | 6.9 | 0.84 | 0.07 | 0.6 | 31.4 |
| 87792 | 9 | 12.8 | 2.36 | 0.85 | 5.89 | 1.59 | 1.60 | 0.1 | 43 | 58.8 | 626 | 3.41 | 3.5 | 24.3 | 1.5 | 1.2 | 0.6 | 0.07 | 0.96 | 12.0 | 1.29 | 0.04 | 1.0 | 45.0 |
| 87793 | < 5 | 7.2 | 2.15 | 0.41 | 5.59 | 1.79 | 1.01 | 0.3 | 23 | 42.3 | 234 | 1.68 | 4.0 | 10.6 | 0.9 | 0.9 | 0.3 | 0.08 | 0.99 | 4.0 | 0.71 | 0.05 | 0.5 | 23.9 |
| 87794 | 9 | 14.4 | 2.21 | 0.89 | 5.50 | 1.40 | 1.75 | 0.2 | 42 | 68.8 | 530 | 3.51 | 3.8 | 21.1 | 1.8 | 1.3 | 0.7 | 0.09 | 1.14 | 10.1 | 1.38 | 0.04 | 0.8 | 45.9 |
| 87795 | 7 | 11.7 | 2.28 | 0.76 | 6.04 | 1.77 | 1.29 | < 0.1 | 21 | 83.0 | 334 | 2.84 | 2.5 | 24.9 | 1.2 | 1.1 | 0.4 | < 0.05 | 1.36 | 7.4 | 0.90 | 0.06 | 0.8 | 32.2 |
| 87796 | 6 | 7.4 | 2.23 | 0.58 | 5.09 | 1.31 | 1.18 | 0.1 | 44 | 53.5 | 313 | 2.26 | 7.6 | 11.1 | 1.5 | 1.1 | 0.6 | 0.09 | 1.42 | 5.1 | 0.85 | 0.05 | 0.7 | 47.6 |
| 87797 | < 5 | 8.3 | 2.36 | 0.55 | 5.92 | 2.12 | 1.43 | < 0.1 | 14 | 46.3 | 258 | 1.82 | 0.8 | 12.7 | 1.0 | 1.2 | 0.4 | < 0.05 | 1.79 | 4.0 | 0.86 | 0.06 | 0.5 | 25.7 |
| 87798 | 6 | 13.3 | 2.30 | 0.94 | 6.75 | 2.01 | 1.62 | 0.1 | 14 | 50.5 | 378 | 3.64 | 2.2 | 18.8 | 1.6 | 1.5 | 0.6 | 0.14 | 1.21 | 8.5 | 1.24 | 0.05 | 1.1 | 38.1 |
| 87799 | 8 | 17.1 | 2.27 | 1.31 | 7.03 | 1.96 | 1.71 | 0.1 | 44 | 94.0 | 449 | 4.06 | 3.5 | 33.5 | 1.5 | 1.2 | 0.6 | 0.09 | 1.29 | 11.3 | 1.13 | 0.06 | 1.0 | 49.9 |
| 87800 | 7 | 9.8 | 2.15 | 0.95 | 6.20 | 1.82 | 2.74 | 0.3 | 28 | 144 | 390 | 2.74 | 3.2 | 32.0 | 1.2 | 1.0 | 0.4 | 0.07 | 1.03 | 8.8 | 0.99 | 0.05 | 0.9 | 30.9 |
| 89901 | 6 | 15.8 | 2.44 | 1.05 | 6.87 | 2.16 | 2.03 | 0.2 | 51 | 75.4 | 598 | 4.01 | 3.9 | 30.7 | 1.8 | 1.3 | 0.7 | 0.12 | 1.16 | 12.7 | 1.29 | 0.08 | 1.0 | 52.0 |
| 89902 | < 5 | 16.8 | 2.43 | 1.09 | 7.58 | 2.27 | 1.59 | 0.2 | 58 | 84.7 | 632 | 3.55 | 4.8 | 35.4 | 1.1 | 1.3 | 0.4 | 0.07 | 1.78 | 14.9 | 0.92 | 0.07 | 0.9 | 141 |
| 89903 | 9 | 16.4 | 2.38 | 0.80 | 7.52 | 2.32 | 1.35 | 0.1 | 49 | 70.0 | 352 | 3.09 | 3.6 | 21.7 | 0.9 | 1.2 | 0.3 | 0.14 | 1.41 | 7.4 | 0.71 | 0.07 | 0.7 | 40.2 |
| 89904 | 23 | 13.1 | 2.58 | 0.81 | 7.14 | 2.36 | 1.57 | 0.2 | 54 | 63.8 | 392 | 2.95 | 4.8 | 24.1 | 1.1 | 1.2 | 0.4 | 0.12 | 1.01 | 9.2 | 0.83 | 0.05 | 0.3 | 36.2 |
| 89905 | 29 | 9.6 | 2.44 | 0.61 | 6.12 | 1.42 | 1.39 | 0.1 | 45 | 72.1 | 330 | 2.28 | 5.0 | 17.3 | 0.9 | 1.2 | 0.3 | 0.05 | 0.91 | 6.8 | 0.61 | 0.04 | 0.2 | 27.5 |
| 89906 | < 5 | 17.7 | 2.05 | 0.99 | 6.82 | 1.97 | 1.24 | 0.1 | 66 | 89.4 | 358 | 3.74 | 1.5 | 29.3 | 1.3 | 1.3 | 0.4 | < 0.05 | 1.44 | 10.7 | 0.85 | 0.07 | 0.8 | 36.2 |
| 89907 | < 5 | 11.9 | 2.18 | 0.98 | 6.81 | 1.93 | 1.43 | < 0.1 | 48 | 79.4 | 312 | 3.31 | 0.1 | 23.5 | 1.2 | 1.1 | 0.4 | < 0.05 | 0.77 | 7.6 | 0.92 | 0.07 | 0.5 | 26.3 |
| 89908 | < 5 | 12.8 | 2.39 | 0.91 | 6.67 | 2.17 | 1.59 | 0.1 | 53 | 77.0 | 444 | 3.68 | 0.2 | 23.1 | 1.2 | 1.2 | 0.5 | 0.08 | 1.11 | 8.7 | 0.87 | 0.05 | 0.8 | 40.6 |
| 89909 | 6 | 14.5 | 2.18 | 0.96 | 7.04 | 1.89 | 1.36 | 0.1 | 38 | 87.2 | 359 | 4.03 | 2.5 | 23.6 | 1.3 | 1.3 | 0.5 | 0.07 | 1.51 | 7.9 | 0.99 | 0.08 | 0.8 | 35.5 |
| 89910 | 11 | 23.8 | 2.27 | 1.13 | 7.77 | 2.30 | 1.45 | 0.2 | 73 | 101 | 441 | 4.12 | 5.0 | 32.1 | 1.3 | 1.4 | 0.4 | 0.07 | 2.05 | 10.9 | 0.99 | 0.08 | 0.9 | 50.9 |
| 89911 | < 5 | 13.8 | 1.84 | 1.22 | 6.02 | 1.70 | 1.14 | 0.1 | 82 | 131 | 360 | 4.79 | 3.8 | 27.9 | 1.9 | 2.0 | 0.7 | 0.14 | 1.58 | 8.6 | 1.36 | 0.11 | 1.2 | 45.8 |
| 89912 | 9 | 19.2 | 1.64 | 1.56 | 6.35 | 1.76 | 1.02 | 0.2 | 80 | 147 | 612 | 7.24 | 2.2 | 40.6 | 1.8 | 2.1 | 0.7 | 0.06 | 2.88 | 14.4 | 1.24 | 0.14 | 0.8 | 68.0 |
| 89913 | 7 | 10.3 | 2.45 | 1.11 | 6.97 | 2.00 | 1.49 | 0.2 | 65 | 77.9 | 579 | 4.45 | 2.2 | 23.4 | 1.8 | 1.4 | 0.6 | 0.06 | 2.53 | 10.4 | 1.04 | 0.10 | 0.5 | 49.4 |
| 89914 | 8 | 50.3 | 2.83 | 2.11 | 6.67 | 1.52 | 2.22 | 0.4 | 141 | 70.0 | 1660 | 7.66 | 3.4 | 60.5 | 4.3 | 4.1 | 1.8 | 0.16 | 3.60 | 39.5 | 4.92 | 0.13 | 1.2 | 150 |
| 89915 | < 5 | 14.5 | 2.24 | 0.89 | 5.71 | 1.28 | 1.32 | 0.2 | 63 | 91.5 | 414 | 3.14 | 4.7 | 26.8 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.22 | 10.4 | 0.77 | 0.06 | 0.5 | 36.1 |
| 89916 | < 5 | 13.5 | 2.12 | 0.98 | 6.94 | 2.29 | 1.29 | 0.2 | 52 | 86.9 | 412 | 3.19 | 3.8 | 27.6 | 1.2 | 1.6 | 0.4 | 0.10 | 1.78 | 8.9 | 0.97 | 0.09 | 0.6 | 39.8 |
| 89917 | < 5 | 12.1 | 2.49 | 0.81 | 7.09 | 1.72 | 1.35 | 0.1 | 56 | 71.7 | 267 | 2.49 | 0.3 | 23.5 | 1.6 | 1.3 | 0.6 | 0.08 | 1.45 | 5.7 | 2.06 | 0.04 | 1.0 | 39.6 |
| 89918 | 11 | 21.8 | 2.66 | 1.89 | 7.80 | 2.23 | 1.00 | 0.2 | 94 | 44.9 | 1120 | 9.06 | 2.7 | 30.8 | 2.1 | 1.1 | 0.8 | 0.18 | 2.58 | 40.6 | 1.98 | 0.09 | 1.6 | 104 |
| 89919 | 7 | 13.1 | 2.35 | 0.67 | 7.13 | 2.35 | 1.24 | 0.1 | 12 | 48.7 | 243 | 2.52 | 2.8 | 16.5 | 1.0 | 1.0 | 0.3 | < 0.05 | 1.45 | 5 | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89920 | < 5 | 15.9 | 2.23 | 0.91 | 6.95 | 2.15 | 1.38 | 0.1 | 35 | 58.3 | 355 | 3.52 | 1.2 | 22.6 | 1.0 | 1.0 | 0.4 | 0.06 | 1.43 | 8.6 | 0.79 | 0.06 | 0.6 | 40.1 |
| 89921 | < 5 | 12.2 | 2.67 | 0.87 | 7.27 | 2.02 | 1.91 | 0.1 | 44 | 62.3 | 546 | 3.36 | 0.5 | 23.9 | 1.4 | 1.3 | 0.5 | 0.09 | 1.10 | 10.1 | 1.09 | 0.05 | 0.9 | 43.0 |
| 89922 | < 5 | 13.7 | 2.24 | 0.86 | 7.14 | 2.26 | 1.23 | 0.1 | 32 | 55.9 | 320 | 3.57 | 1.5 | 22.4 | 0.9 | 1.1 | 0.3 | < 0.05 | 1.73 | 7.3 | 0.75 | 0.07 | 0.5 | 42.1 |
| 89923 | < 5 | 20.3 | 2.17 | 1.03 | 6.64 | 2.09 | 2.08 | 0.2 | 43 | 88.7 | 665 | 4.18 | 2.4 | 28.7 | 1.4 | 1.3 | 0.5 | 0.08 | 2.24 | 14.3 | 1.15 | 0.07 | 0.9 | 65.0 |
| 89924 | 16 | 17.4 | 1.45 | 1.16 | 6.26 | 2.35 | 2.16 | 1.2 | 144 | 88.9 | 1790 | 8.68 | 6.6 | 67.5 | 3.5 | 1.9 | 1.5 | 0.42 | 2.65 | 33.5 | 4.93 | 0.19 | 1.7 | 161 |
| 89925 | 42 | 15.2 | 2.26 | 0.88 | 4.39 | 1.45 | 1.12 | 0.4 | 71 | 106 | 427 | 3.46 | 4.3 | 38.1 | 0.7 | 1.4 | 0.3 | 0.17 | 0.94 | 12.4 | 0.45 | 0.05 | 0.8 | 68.7 |
| 89926 | 49 | 17.0 | 2.24 | 1.41 | 7.54 | 1.96 | 1.47 | 0.2 | 96 | 112 | 661 | 4.45 | 4.6 | 53.5 | 1.5 | 1.5 | 0.6 | 0.08 | 1.46 | 18.3 | 1.31 | 0.06 | 0.9 | 77.9 |
| 89927 | 7 | 19.0 | 2.16 | 1.19 | 7.63 | 2.36 | 1.11 | 0.3 | 42 | 112 | 452 | 5.17 | 1.8 | 55.9 | 1.5 | 2.1 | 0.5 | 0.15 | 1.67 | 15.7 | 1.17 | 0.11 | 1.0 | 92.8 |
| 89928 | < 5 | 12.1 | 2.79 | 0.81 | 7.40 | 2.15 | 1.58 | 0.2 | 47 | 60.2 | 400 | 2.70 | 3.5 | 23.7 | 1.0 | 1.4 | 0.4 | < 0.05 | 0.89 | 8.8 | 0.85 | 0.04 | 0.7 | 33.6 |
| 89929 | 9 | 15.6 | 2.56 | 1.28 | 7.40 | 1.99 | 1.68 | 0.1 | 57 | 94.1 | 625 | 4.36 | 3.7 | 43.6 | 1.6 | 1.8 | 0.6 | 0.06 | 1.21 | 16.9 | 1.26 | 0.07 | 0.9 | 53.2 |
| 89930 | < 5 | 14.6 | 2.47 | 1.20 | 7.16 | 2.37 | 1.64 | 0.2 | 50 | 108 | 503 | 4.05 | 3.7 | 38.9 | 1.7 | 1.5 | 0.6 | 0.07 | 1.25 | 13.8 | 1.36 | 0.06 | 0.8 | 58.9 |
| 89931 | 10 | 15.6 | 2.52 | 1.50 | 7.27 | 2.15 | 1.54 | < 0.1 | 50 | 156 | 634 | 4.44 | 3.3 | 45.0 | 1.7 | 3.0 | 0.6 | < 0.05 | 1.25 | 17.1 | 1.11 | 0.05 | 0.7 | 51.1 |
| 89932 | 19 | 16.5 | 2.65 | 1.27 | 7.53 | 2.24 | 1.31 | 0.1 | 65 | 129 | 612 | 5.06 | 3.9 | 40.6 | 2.0 | 3.0 | 0.8 | < 0.05 | 0.99 | 18.9 | 1.87 | 0.05 | 1.1 | 52.3 |
| 89933 | 9 | 15.0 | 1.90 | 1.36 | 5.23 | 1.29 | 1.49 | 0.2 | 143 | 241 | 1120 | 5.61 | 4.8 | 38.4 | 2.6 | 4.4 | 0.9 | < 0.05 | 0.96 | 23.4 | 1.30 | 0.07 | 1.2 | 69.1 |
| 89934 | 49 | 17.5 | 1.92 | 1.65 | 6.64 | 2.14 | 1.55 | 0.3 | 117 | 103 | 1180 | 5.12 | 3.9 | 35.4 | 2.7 | 4.1 | 0.9 | < 0.05 | 1.27 | 23.6 | 1.80 | 0.09 | 1.5 | 81.0 |
| 89935 | 8 | 19.2 | 2.32 | 1.41 | 7.80 | 2.29 | 1.22 | 0.1 | 60 | 130 | 809 | 5.77 | 2.2 | 48.2 | 1.3 | 2.9 | 0.5 | 0.05 | 1.50 | 25.7 | 1.06 | 0.05 | 1.0 | 62.8 |
| 89937 | 7 | 14.8 | 2.70 | 1.07 | 7.39 | 2.33 | 1.75 | 0.1 | 34 | 64.4 | 538 | 3.99 | 1.9 | 30.0 | 1.5 | 1.4 | 0.6 | 0.08 | 1.11 | 12.6 | 1.23 | 0.05 | 0.8 | 47.8 |
| 89938 | 23 | 14.0 | 2.57 | 1.13 | 7.16 | 2.13 | 1.83 | < 0.1 | 40 | 68.5 | 524 | 4.21 | 3.2 | 31.5 | 1.4 | 1.4 | 0.5 | 0.06 | 1.04 | 14.0 | 1.31 | 0.05 | 0.8 | 46.5 |
| 89939 | 30 | 12.6 | 2.60 | 1.00 | 7.32 | 2.34 | 1.73 | 0.1 | 42 | 71.0 | 456 | 3.71 | 4.6 | 27.4 | 1.5 | 1.2 | 0.6 | 0.07 | 0.93 | 11.9 | 1.23 | 0.05 | 0.8 | 39.7 |
| 89940 | < 5 | 16.4 | 2.54 | 1.19 | 7.56 | 2.41 | 1.58 | 0.1 | 35 | 76.4 | 520 | 3.76 | 3.6 | 29.8 | 1.4 | 1.5 | 0.5 | 0.07 | 1.22 | 12.5 | 1.25 | 0.06 | 0.9 | 64.2 |
| 89941 | < 5 | 13.9 | 2.71 | 1.55 | 7.04 | 1.64 | 0.81 | 0.2 | 58 | 102 | 447 | 6.94 | 2.4 | 38.7 | 1.9 | 1.7 | 0.6 | < 0.05 | 1.60 | 20.0 | 1.15 | 0.06 | 1.2 | 74.6 |
| 89942 | < 5 | 10.5 | 2.38 | 1.05 | 6.35 | 1.90 | 1.39 | 0.1 | 44 | 88.7 | 494 | 6.62 | 3.6 | 28.4 | 1.9 | 1.3 | 0.7 | 0.08 | 1.12 | 14.4 | 1.41 | 0.04 | 1.0 | 47.5 |
| 89943 | < 5 | 15.1 | 2.41 | 1.11 | 7.17 | 2.21 | 1.42 | 0.2 | 25 | 71.8 | 436 | 4.99 | 3.5 | 28.0 | 1.5 | 1.6 | 0.6 | 0.07 | 1.07 | 12.9 | 1.14 | 0.04 | 1.0 | 48.5 |
| 89944 | 20 | 18.4 | 2.43 | 1.61 | 7.64 | 2.57 | 1.45 | 0.1 | 58 | 66.8 | 740 | 5.23 | 5.9 | 33.8 | 2.8 | 2.3 | 1.0 | < 0.05 | 1.15 | 15.7 | 2.32 | 0.05 | 1.4 | 95.3 |
| 89945 | 13 | 12.1 | 1.61 | 1.27 | 5.63 | 2.49 | 0.37 | 0.3 | 66 | 58.5 | 240 | 4.79 | 6.3 | 29.9 | 2.1 | 2.3 | 0.7 | 0.08 | 2.42 | 17.1 | 0.71 | 0.05 | 1.1 | 86.9 |
| 89946 | 5 | 26.7 | 1.07 | 2.08 | 7.51 | 2.97 | 0.64 | 0.1 | 43 | 43.3 | 635 | 9.00 | 1.0 | 36.3 | 1.3 | 2.2 | 0.5 | 0.05 | 1.90 | 33.7 | 0.82 | 0.03 | 0.7 | 94.8 |
| 89947 | < 5 | 13.0 | 2.53 | 0.97 | 7.15 | 2.20 | 1.61 | < 0.1 | 32 | 74.0 | 623 | 4.91 | 0.5 | 28.8 | 1.8 | 1.5 | 0.7 | < 0.05 | 0.97 | 13.7 | 1.53 | 0.05 | 0.7 | 49.9 |
| 89948 | 6 | 16.2 | 2.48 | 0.84 | 7.34 | 2.24 | 1.45 | 0.1 | 40 | 59.7 | 490 | 3.66 | 2.0 | 27.3 | 1.3 | 1.7 | 0.5 | 0.07 | 1.09 | 13.6 | 0.98 | 0.05 | 0.9 | 53.4 |
| 89949 | 10 | 17.7 | 2.31 | 1.05 | 6.75 | 2.12 | 1.43 | 0.1 | 33 | 87.2 | 639 | 6.13 | 2.6 | 33.7 | 2.1 | 1.7 | 0.8 | 0.06 | 1.19 | 18.9 | 1.63 | 0.06 | 1.0 | 61.8 |
| 89950 | 9 | 12.8 | 2.28 | 0.88 | 6.77 | 2.12 | 0.99 | 0.1 | 33 | 92.5 | 441 | 6.64 | 3.2 | 27.1 | 1.8 | 1.4 | 0.6 | 0.08 | 1.35 | 14.5 | 1.15 | 0.06 | 0.8 | 56.5 |
| 89951 | 18 | 27.7 | 2.36 | 1.93 | 7.48 | 2.37 | 1.52 | 0.2 | 69 | 88.3 | 431 | 4.81 | 3.7 | 45.3 | 1.9 | 1.7 | 0.7 | 0.09 | 1.83 | 17.2 | 1.57 | 0.06 | 1.2 | 77.7 |
| 89952 | 5 | 22.6 | 2.36 | 1.52 | 7.46 | 2.46 | 1.75 | 0.1 | 51 | 76.0 | 511 | 4.24 | 3.4 | 40.0 | 1.7 | 1.6 | 0.6 | 0.08 | 1.54 | 15.6 | 1.44 | 0.06 | 0.8 | 61.4 |
| 89953 | 15 | 31.9 | 2.05 | 3.64 | 7.23 | 1.59 | 1.18 | 0.3 | 90 | 64.8 | 1210 | 7.70 | 3.9 | 59.1 | 2.9 | 1.9 | 1.1 | 0.07 | 0.89 | 29.6 | 2.62 | 0.02 | 1.4 | 93.0 |
| 89954 | < 5 | 22.0 | 2.22 | 2.30 | 6.72 | 1.84 | 1.35 | 0.2 | 80 | 63.5 | 752 | 5.90 | 3.8 | 41.4 | 2.2 | 1.7 | 0.8 | 0.08 | 0.83 | 20.8 | 2.85 | 0.03 | 1.2 | 68.0 |
| 89955 | < 5 | 20.0 | 1.81 | 1.04 | 3.81 | 1.29 | 1.61 | 0.3 | 89 | 79.3 | 3290 | 6.36 | 3.5 | 33.1 | 1.1 | 1.2 | 0.4 | 0.09 | 1.03 | 17.8 | 0.70 | 0.05 | 3.2 | 49.2 |
| 89956 | 11 | 15.8 | 2.37 | 1.60 | 6.46 | 1.59 | 1.70 | 0.2 | 40 | 66.8 | 657 | 6.29 | 1.3 | 36.2 | 2.2 | 1.6 | 0.9 | 0.06 | 0.84 | 18.5 | 1.97 | 0.03 | 0.9 | 56.5 |
| 89957 | < 5 | 16.8 | 2.10 | 1.07 | 6.37 | 1.78 | 1.85 | 0.2 | 60 | 78.2 | 1180 | 4.15 | 1.2 | 33.2 | 1.4 | 1.4 | 0.5 | 0.11 | 1.16 | 14.0 | 1.11 | 0.06 | 1.6 | 53.2 |
| 89958 | < 5 | 10.2 | 2.68 | 0.64 | 7.21 | 2.48 | 1.55 | 0.1 | 43 | 46.4 | 279 | 2.49 | 4.8 | 15.3 | 1.1 | 1.4 | 0.4 | 0.08 | 0.80 | 6.8 | 0.88 | 0.04 | 1.0 | 28.7 |
| 89959 | 6 | 14.7 | 2.41 | 1.06 | 7.03 | 2.10 | 1.44 | 0.1 | 28 | 63.9 | 461 | 4.69 | 1.8 | 30.4 | 1.5 | 1.5 | 0.6 | 0.06 | 1.18 | 13.7 | 1.28 | 0.06 | 0.8 | 55.7 |
| 89960 | < 5 | 15.6 | 2.37 | 1.12 | 7.06 | 1.81 | 1.46 | 0.2 | 22 | 56.9 | 459 | 5.49 | 1.1 | 27.8 | 1.7 | 1.5 | 0.6 | 0.05 | 1.01 | 15.1 | 1.35 | 0.05 | 1.1 | 57.7 |
| 89961 | 17 | 17.5 | 2.45 | 1.25 | 7.08 | 2.18 | 1.92 | 0.2 | 34 | 76.9 | 1280 | 5.21 | 2.7 | 37.7 | 2.0 | 1.8 | 0.8 | 0.09 | 1.34 | 17.6 | 1.76 | 0.06 | 1.2 | 65.1 |
| 89962 | 14 | 15.8 | 2.20 | 1.74 | 6.36 | 1.78 | 2.22 | 0.2 | 37 | 184 | 930 | 6.00 | 2.4 | 51.1 | 2.0 | 2.0 | 0.8 | 0.09 | 1.39 | 23.3 | 1.92 | 0.09 | 1.1 | 62.4 |
| 89963 | < 5 | 8.7 | 1.49 | 0.63 | 4.45 | 1.39 | 2.37 | 0.4 | 46 | 64.6 | 548 | 2.66 | 0.3 | 24.8 | 1.1 | 1.1 | 0.4 | 0.11 | 1.01 | 9.9 | 0.91 | 0.03 | 3.3 | 51.3 |
| 89964 | < 5 | 17.0 | 2.16 | 2.09 | 4.80 | 1.21 | 2.11 | 0.2 | 83 | 148 | 1360 | 9.21 | 4.7 | 64.5 | 2.6 | 2.1 | 1.0 | < 0.05 | 0.83 | 33.6 | 2.40 | 0.04 | 1.5 | 87.2 |
| 89965 | < 5 | 20.7 | 2.03 | 1.69 | 6.76 | 1.62 | 2.05 | 0.2 | 57 | 112 | 629 | 5.24 | 4.5 | 38.2 | 2.0 | 2.2 | 0.8 | 0.06 | 1.64 | 19.5 | 1.99 | 0.05 | 1.4 | 63.2 |
| 89966 | 12 | 13.3 | 2.36 | 0.98 | 6.71 | 1.81 | 1.64 | 0.1 | 51 | 78.5 | 467 | 3.87 | 4.9 | 30.2 | 1.6 | 1.4 | 0.6 | 0.09 | 1.04 | 12.3 | 1.31 | 0.06 | 0.8 | 44.2 |
| 89967 | < 5 | 13.2 | 2.48 | 0.99 | 6.89 | 2.09 | 1.57 | 0.1 | 42 | 66.4 | 509 | 3.76 | 4.4 | 27.0 | 1.5 | 1.3 | 0.6 | 0.08 | 0.93 | 13.1 | 1.26 | 0.05 | 1.0 | 43.7 |
| 89968 | < 5 | 12.6 | 2.52 | 0.96 | 7.18 | 2.20 | 1.53 | 0.1 | 26 | 62.3 | 332 | 3.12 | 1.6 | 23.8 | 1.2 | 1.3 | 0.4 | 0.13 | 1.08 | 9.0 | 1.08 | 0.05 | 0.7 | 43.2 |
| 89969 | 27 | 17.5 | 2.12 | 1.50 | 7.00 | 1.59 | 1.84 | 0.2 | 70 | 93.1 | 687 | 6.85 | 3.2 | 39.0 | 2.1 | 1.7 | 0.8 | 0.07 | 1.63 | 20.0 | 1.67 | 0.07 | 1.0 | 74.6 |
| 89970 | 9 | 23.5 | 2.31 | 1.48 | 7.58 | 2.44 | 1.86 | 0.1 | 34 | 76.9 | 676 | 4.38 | 1.9 | 43.6 | 1.6 | 1.6 | 0.6 | 0.07 | 1.82 | 16.5 | 1.41 | 0.07 | 0.9 | 71.1 |
| 89971 | < 5 | 23.8 | 2.80 | 2.13 | 7.29 | 1.78 | 1.51 | 0.1 | 61 | 71.1 | 578 | 6.68 | 2.3 | 47.1 | 1.8 | 2.2 | 0.7 | 0.06 | 1.33 | 27.6 | 1.81 | 0.05 | 1.1 | 84.5 |
| 89972 | 120 | 17.5 | > 3.00 | 1.62 | 7.17 | 0.81 | 0.70 | < 0.1 | 40 | 44.7 | 1310 | 6.91 | 1.5 | 40.8 | 1.2 | 3.1 | 0.4 | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89973 | < 5 | 17.3 | > 3.00 | 1.44 | 4.01 | 1.09 | 0.80 | 0.1 | 152 | 90.0 | 867 | 6.34 | 4.4 | 47.4 | 1.2 | 2.3 | 0.5 | < 0.05 | 0.80 | 27.3 | 1.12 | 0.04 | 1.5 | 67.8 |
| 89974 | 5 | 11.7 | > 3.00 | 1.11 | 7.09 | 1.44 | 0.93 | < 0.1 | 55 | 62.9 | 483 | 5.51 | 2.9 | 28.4 | 1.1 | 1.2 | 0.4 | 0.05 | 1.18 | 16.3 | 1.25 | 0.04 | 0.6 | 54.7 |
| 89975 | 15 | 21.9 | 2.87 | 1.39 | 7.27 | 1.61 | 1.31 | < 0.1 | 58 | 92.9 | 667 | 4.86 | 3.2 | 40.3 | 1.5 | 1.7 | 0.6 | 0.06 | 1.52 | 18.8 | 1.45 | 0.06 | 0.7 | 65.8 |
| 89726 | < 5 | 23.6 | 2.66 | 1.58 | 7.68 | 1.84 | 1.66 | < 0.1 | 66 | 115 | 628 | 4.45 | 3.0 | 57.8 | 1.7 | 2.6 | 0.6 | < 0.05 | 1.27 | 20.8 | 1.60 | 0.06 | 0.3 | 61.6 |
| 89727 | 7 | 37.1 | 2.72 | 3.03 | 7.93 | 1.31 | 1.91 | 0.1 | 84 | 95.0 | 878 | 6.33 | 2.8 | 66.8 | 1.9 | 1.5 | 0.7 | < 0.05 | 1.89 | 38.3 | 1.70 | 0.03 | 0.5 | 71.2 |
| 89728 | 6 | 59.0 | 2.55 | 2.48 | 8.60 | 0.45 | 4.04 | 0.2 | 83 | 69.6 | 1350 | 10.1 | 2.1 | 46.9 | 2.1 | 2.1 | 0.9 | 0.05 | 0.78 | 51.3 | 2.26 | 0.04 | 0.6 | 112 |
| 89729 | < 5 | 16.0 | 2.34 | 1.13 | 6.47 | 1.66 | 1.88 | 0.1 | 46 | 111 | 538 | 3.38 | 0.2 | 59.1 | 1.5 | 1.5 | 0.5 | 0.07 | 1.03 | 13.6 | 1.28 | 0.04 | 0.3 | 47.4 |
| 89730 | < 5 | 17.3 | 2.28 | 1.14 | 5.41 | 1.52 | 1.79 | < 0.1 | 76 | 130 | 568 | 3.34 | 3.2 | 71.7 | 1.2 | 1.5 | 0.4 | < 0.05 | 1.08 | 16.1 | 1.13 | 0.06 | 0.4 | 46.5 |
| 89731 | 8 | 12.6 | 2.57 | 0.78 | 7.05 | 1.54 | 1.56 | 0.1 | 52 | 70.6 | 454 | 2.47 | 0.8 | 28.4 | 1.2 | 1.5 | 0.4 | < 0.05 | 0.77 | 10.0 | 1.15 | 0.04 | < 0.1 | 43.4 |
| 89732 | < 5 | 17.1 | 2.65 | 1.77 | 7.07 | 1.25 | 0.86 | < 0.1 | 64 | 130 | 449 | 5.78 | 1.1 | 64.5 | 1.0 | 1.0 | 0.3 | < 0.05 | 2.36 | 22.3 | 0.93 | 0.07 | 0.1 | 48.5 |
| 89733 | 5 | 24.4 | 1.54 | 7.02 | 5.53 | 0.48 | 0.72 | 0.5 | 77 | 1170 | 2530 | 8.98 | 1.9 | 933 | 1.4 | 1.4 | 0.6 | 0.06 | 1.12 | 120 | 1.37 | 0.09 | 0.7 | 83.9 |
| 89734 | < 5 | 30.2 | 0.965 | 1.57 | 3.76 | 1.37 | 3.32 | 1.3 | 135 | 278 | 6070 | 8.92 | < 0.1 | 125 | 8.5 | 15.1 | 4.4 | 0.13 | 0.81 | 33.4 | 26.7 | 0.93 | 2.7 | 327 |
| 89735 | 6 | 47.2 | 2.82 | 2.49 | > 10.0 | 0.40 | 2.95 | 0.2 | 69 | 71.9 | 1390 | 8.37 | 0.3 | 122 | 2.8 | 1.8 | 1.1 | < 0.05 | 0.91 | 79.9 | 2.19 | 0.04 | 0.2 | 100 |
| 89736 | < 5 | 7.8 | 2.28 | 0.73 | 6.46 | 1.85 | 1.36 | 0.2 | 25 | 87.5 | 278 | 2.29 | 0.3 | 24.9 | 1.2 | 1.6 | 0.4 | < 0.05 | 1.24 | 6.9 | 1.28 | 0.07 | < 0.1 | 23.9 |
| 89737 | 31 | 24.5 | 1.85 | 1.73 | 6.58 | 1.02 | 2.76 | 0.2 | 109 | 103 | 1120 | 5.91 | 1.3 | 48.8 | 4.6 | 2.0 | 1.8 | < 0.05 | 1.04 | 32.1 | 3.89 | 0.09 | 0.8 | 55.8 |
| 89739 | < 5 | 26.3 | 2.56 | 3.53 | 8.49 | 0.26 | 2.25 | < 0.1 | 186 | 59.9 | 911 | 9.94 | 0.7 | 51.2 | 2.0 | 1.2 | 0.8 | < 0.05 | 0.77 | 55.1 | 1.57 | 0.03 | < 0.1 | 84.7 |
| 89740 | 18 | 18.7 | 2.10 | 0.94 | 7.19 | 1.71 | 1.40 | 0.6 | 101 | 136 | 708 | 6.12 | 2.3 | 27.6 | 1.6 | 1.5 | 0.6 | < 0.05 | 1.11 | 13.3 | 1.45 | 0.10 | 0.4 | 1150 |
| 89741 | < 5 | 38.5 | 1.82 | 1.98 | 4.75 | 0.02 | 1.39 | 0.1 | 246 | 84.0 | 2970 | 13.6 | 1.0 | 32.6 | 2.0 | 1.6 | 0.9 | < 0.05 | < 0.05 | 54.2 | 1.94 | 0.04 | 0.7 | 86.7 |
| 89742 | < 5 | 17.5 | 2.45 | 1.08 | 6.82 | 1.70 | 1.66 | 0.1 | 72 | 124 | 642 | 3.81 | 4.6 | 45.3 | 1.8 | 2.2 | 0.7 | 0.11 | 0.94 | 15.3 | 1.87 | 0.06 | < 0.1 | 48.2 |
| 89743 | < 5 | 37.8 | 1.49 | 2.02 | 6.47 | 0.77 | 3.23 | 0.1 | 59 | 606 | 1220 | 7.17 | 0.3 | 213 | 2.2 | 3.6 | 0.9 | < 0.05 | 2.14 | 74.2 | 2.46 | 0.04 | 0.2 | 80.5 |
| 89744 | < 5 | 12.6 | 2.36 | 0.85 | 6.54 | 1.72 | 1.30 | < 0.1 | 46 | 94.5 | 344 | 3.47 | 0.5 | 40.1 | 1.1 | 1.7 | 0.4 | < 0.05 | 1.28 | 11.8 | 1.00 | 0.06 | < 0.1 | 36.6 |
| 89745 | 6 | 13.9 | 2.08 | 0.88 | 6.51 | 1.73 | 2.13 | 0.1 | 65 | 79.7 | 584 | 3.31 | 0.5 | 28.1 | 1.7 | 1.1 | 0.6 | 0.12 | 1.57 | 11.9 | 1.43 | 0.05 | 0.4 | 40.9 |
| 89746 | 6 | 18.7 | 2.16 | 1.47 | 7.63 | 1.56 | 2.04 | 0.5 | 59 | 66.4 | 449 | 4.45 | < 0.1 | 33.3 | 2.0 | 2.1 | 0.8 | 0.08 | 1.35 | 21.6 | 1.98 | 0.19 | 0.1 | 85.7 |
| 89747 | 19 | 38.1 | 2.11 | 3.61 | 8.67 | 0.18 | 4.26 | 0.2 | 116 | 63.1 | 1250 | 9.68 | 0.5 | 62.1 | 2.2 | 1.1 | 0.9 | < 0.05 | 0.71 | 57.3 | 1.84 | 0.03 | 0.3 | 81.7 |
| 89748 | < 5 | 43.2 | 2.08 | 1.50 | 6.91 | 1.27 | 1.11 | 0.2 | 101 | 224 | 2160 | 7.92 | 3.1 | 86.9 | 2.7 | 4.3 | 1.2 | < 0.05 | 1.00 | 38.1 | 5.52 | 0.24 | 0.6 | 59.9 |
| 89749 | 8 | 25.1 | 2.29 | 1.62 | 6.55 | 1.50 | 1.66 | 0.2 | 104 | 254 | 1170 | 5.43 | 3.3 | 98.9 | 2.3 | 2.6 | 1.0 | 0.08 | 1.33 | 25.1 | 3.70 | 0.10 | 0.5 | 79.5 |
| 89750 | < 5 | 42.6 | 2.90 | 3.49 | 9.58 | 0.13 | 1.97 | 0.2 | 160 | 80.6 | 1230 | 10.2 | 1.2 | 108 | 2.6 | 2.5 | 1.1 | < 0.05 | 0.51 | 82.3 | 3.29 | 0.04 | 0.7 | 94.1 |
| 89752 | < 5 | 40.0 | 1.86 | 3.17 | 9.17 | 0.80 | 2.25 | 0.2 | 163 | 63.2 | 1830 | 9.39 | 1.4 | 78.7 | 2.4 | 1.2 | 0.9 | < 0.05 | 1.45 | 57.8 | 2.10 | 0.04 | 0.2 | 88.9 |
| 89753 | < 5 | 26.1 | > 3.00 | 1.92 | 4.47 | 0.02 | 0.68 | 0.1 | 150 | 1700 | 1680 | 9.47 | 1.1 | 623 | 2.1 | 25.7 | 0.8 | < 0.05 | 0.35 | 87.1 | 1.07 | 0.05 | 0.7 | 122 |
| 89754 | < 5 | 25.5 | 2.16 | 2.19 | 6.61 | 1.27 | 2.17 | 0.1 | 66 | 167 | 703 | 5.63 | 0.7 | 83.9 | 1.8 | 1.8 | 0.7 | 0.06 | 1.57 | 29.0 | 1.73 | 0.05 | 0.1 | 82.4 |
| 89755 | < 5 | 29.2 | 2.56 | 2.21 | 7.20 | 1.25 | 1.89 | 0.1 | 38 | 159 | 683 | 5.45 | 1.7 | 97.8 | 1.7 | 1.8 | 0.7 | 0.07 | 1.22 | 29.6 | 1.78 | 0.04 | < 0.1 | 57.0 |
| 89756 | < 5 | 19.5 | 2.41 | 1.80 | 6.81 | 1.48 | 2.17 | 0.1 | 52 | 117 | 544 | 4.32 | 0.2 | 77.3 | 1.7 | 1.9 | 0.7 | < 0.05 | 1.29 | 19.6 | 1.97 | 0.05 | 0.5 | 54.7 |
| 89757 | 5 | 32.3 | 2.53 | 3.63 | 7.15 | 0.78 | 1.97 | < 0.1 | 43 | 374 | 844 | 7.03 | 1.1 | 189 | 1.5 | 1.2 | 0.6 | < 0.05 | 1.42 | 46.7 | 1.19 | 0.03 | < 0.1 | 62.4 |
| 89758 | < 5 | 34.8 | 2.32 | 2.53 | 9.09 | 0.23 | 2.91 | 0.1 | 31 | 47.6 | 611 | 6.71 | < 0.1 | 46.5 | 2.0 | 1.9 | 0.8 | < 0.05 | 0.54 | 33.3 | 1.71 | 0.02 | 0.1 | 62.6 |
| 89759 | 9 | 29.3 | 2.88 | 3.50 | 8.14 | 1.25 | 1.85 | 0.2 | 116 | 241 | 1140 | 6.98 | 3.1 | 142 | 1.9 | 2.8 | 0.8 | 0.05 | 1.25 | 40.6 | 1.99 | 0.04 | 0.6 | 70.1 |
| 89760 | < 5 | 11.7 | 2.49 | 0.98 | 6.81 | 1.81 | 1.61 | < 0.1 | 29 | 129 | 410 | 3.09 | 2.3 | 35.9 | 1.2 | 1.2 | 0.4 | < 0.05 | 0.94 | 9.6 | 1.02 | 0.05 | < 0.1 | 35.3 |
| 89761 | 8 | 29.4 | 2.60 | 3.44 | 8.54 | 1.05 | 2.24 | 0.2 | 108 | 216 | 979 | 7.21 | 2.3 | 144 | 1.9 | 1.9 | 0.7 | 0.05 | 1.47 | 45.0 | 1.65 | 0.04 | < 0.1 | 161 |
| 89762 | 39 | 28.6 | 2.56 | 2.24 | 5.94 | 0.86 | 2.05 | 0.1 | 124 | 194 | 793 | 6.50 | 2.3 | 88.8 | 1.2 | 1.9 | 0.4 | < 0.05 | 1.00 | 37.9 | 0.83 | 0.04 | 0.2 | 69.8 |
| 89763 | 7 | 25.9 | 2.90 | 2.21 | 9.03 | 1.21 | 2.78 | 0.2 | 52 | 146 | 772 | 6.62 | 1.9 | 75.8 | 1.7 | 1.7 | 0.6 | < 0.05 | 1.22 | 33.9 | 1.41 | 0.05 | 0.7 | 77.2 |
| 89764 | < 5 | 22.0 | 2.80 | 2.01 | 7.99 | 1.08 | 1.42 | 0.2 | 44 | 90.6 | 970 | 5.57 | 1.0 | 59.2 | 1.5 | 1.4 | 0.5 | 0.07 | 1.23 | 35.0 | 1.26 | 0.06 | 0.5 | 75.0 |
| 89765 | < 5 | 24.1 | 2.29 | 1.79 | 6.87 | 1.55 | 1.90 | 0.2 | 69 | 178 | 1550 | 5.04 | 2.7 | 100 | 1.7 | 2.0 | 0.7 | 0.08 | 1.47 | 25.4 | 1.85 | 0.06 | 0.3 | 64.7 |
| 89766 | < 5 | 12.7 | 2.48 | 1.42 | 7.11 | 1.75 | 1.34 | 0.2 | 21 | 122 | 364 | 3.50 | 0.9 | 68.6 | 1.1 | 2.0 | 0.4 | < 0.05 | 1.47 | 14.2 | 1.24 | 0.06 | 0.2 | 64.1 |
| 89767 | 6 | 34.1 | 2.30 | 1.98 | 7.49 | 1.83 | 1.34 | 0.1 | 89 | 231 | 801 | 5.79 | 2.6 | 114 | 1.6 | 3.5 | 0.7 | 0.06 | 2.34 | 28.4 | 2.03 | 0.10 | 0.4 | 80.8 |
| 89768 | 5 | 24.2 | 2.19 | 2.06 | 6.98 | 1.44 | 1.81 | 0.2 | 54 | 228 | 936 | 5.32 | 2.2 | 102 | 1.7 | 1.8 | 0.6 | 0.07 | 1.63 | 27.2 | 1.63 | 0.06 | 0.4 | 64.9 |
| 89769 | < 5 | 27.2 | 2.27 | 1.67 | 7.18 | 1.64 | 1.16 | 0.2 | 92 | 264 | 635 | 5.45 | 2.3 | 95.2 | 1.1 | 1.9 | 0.4 | < 0.05 | 1.84 | 23.4 | 1.01 | 0.07 | 0.4 | 86.1 |
| 89770 | < 5 | 33.1 | 1.67 | 2.40 | 5.68 | 0.81 | 3.12 | 0.2 | 58 | 513 | 1330 | 6.74 | 0.7 | 226 | 2.4 | 1.4 | 0.9 | 0.10 | 1.35 | 41.3 | 1.98 | 0.07 | 1.2 | 90.7 |
| 89771 | 16 | 22.5 | 2.25 | 1.15 | 5.42 | 1.03 | 1.35 | 0.1 | 92 | 178 | 500 | 4.26 | 4.8 | 54.7 | 1.2 | 2.1 | 0.5 | 0.07 | 1.11 | 15.9 | 1.16 | 0.06 | 0.7 | 58.1 |
| 89772 | 20 | 19.6 | 2.71 | 1.41 | 7.05 | 1.31 | 1.42 | < 0.1 | 60 | 166 | 425 | 4.47 | 3.4 | 61.4 | 1.4 | 1.9 | 0.5 | < 0.05 | 1.19 | 18.1 | 1.66 | 0.05 | 0.5 | 41.5 |
| 89773 | < 5 | 35.7 | 1.80 | 3.42 | 6.06 | 0.75 | 3.07 | 0.2 | 57 | 430 | 727 | 5.91 | 0.9 | 171 | 1.6 | 1.1 | 0.6 | 0.70 | 1.60 | 33.5 | 1.44 | 0.05 | 0.5 | 51.5 |
| 89774 | < 5 | 23.1 | 2.16 | 1.89 | 6.88 | 1.37 | 1.26 | 0.1 | 31 | 180 | 499 | 4.97 | 1.5 | 107 | 1.2 | 1.9 | 0.5 | < 0.05 | 1.04 | 22.1 | 1.43 | 0.05 | 0.4 | 50.2 |
| 89775 | 9 | 22.2 | 1.55 | 1.82 | 5.82 | 1.55 | 1.76 | 0.2 | 94 | 210 | 2040 | 4.71 | < 0.1 | 93.6 | 1.5 | 1.7 | 0.6 | 0.08 | 2.25 | 25.5 | 1.64 | 0.09 | 0.6 | 83.6 |
| 89776 | 7 | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89777 | 15 | 16.4 | 2.34 | 1.10 | 6.64 | 1.84 | 1.80 | 0.2 | 74 | 113 | 840 | 4.10 | 1.3 | 49.3 | 2.0 | 2.4 | 0.8 | 0.05 | 1.14 | 16.2 | 2.65 | 0.07 | 0.6 | 60.0 |
| 89778 | 8 | 16.4 | 2.37 | 1.07 | 6.73 | 1.97 | 1.54 | 0.2 | 67 | 131 | 666 | 3.56 | 1.8 | 44.8 | 1.5 | 1.7 | 0.6 | 0.08 | 1.21 | 14.6 | 1.56 | 0.06 | 0.5 | 133 |
| 89779 | < 5 | 18.8 | 2.16 | 0.94 | 6.37 | 1.73 | 1.26 | 0.2 | 61 | 122 | 396 | 3.87 | 1.8 | 38.6 | 1.2 | 1.4 | 0.5 | 0.08 | 1.22 | 11.4 | 1.53 | 0.07 | 0.5 | 52.6 |
| 89780 | < 5 | 16.1 | 2.31 | 0.97 | 6.41 | 1.82 | 1.58 | 0.1 | 55 | 106 | 582 | 3.54 | < 0.1 | 43.7 | 1.8 | 1.9 | 0.7 | < 0.05 | 1.14 | 12.5 | 2.25 | 0.07 | 0.2 | 53.4 |
| 89781 | < 5 | 13.2 | 2.41 | 0.63 | 5.29 | 1.57 | 1.39 | < 0.1 | 46 | 76.3 | 277 | 2.09 | 3.9 | 21.3 | 1.0 | 1.4 | 0.4 | < 0.05 | 0.79 | 6.3 | 0.92 | 0.04 | 0.3 | 35.2 |
| 89782 | 5 | 16.6 | 2.29 | 0.92 | 6.59 | 1.74 | 1.49 | < 0.1 | 67 | 81.5 | 504 | 3.39 | < 0.1 | 34.9 | 1.4 | 1.3 | 0.6 | < 0.05 | 1.22 | 12.2 | 1.51 | 0.06 | 0.3 | 49.0 |
| 89783 | < 5 | 14.9 | 2.48 | 0.96 | 7.02 | 1.87 | 1.63 | 0.2 | 68 | 116 | 608 | 3.43 | 5.3 | 38.5 | 1.5 | 1.6 | 0.6 | 0.12 | 1.21 | 12.8 | 1.40 | 0.06 | 0.4 | 94.3 |
| 89784 | < 5 | 18.0 | 2.15 | 0.81 | 6.55 | 1.71 | 1.37 | < 0.1 | 58 | 67.5 | 356 | 3.08 | < 0.1 | 21.3 | 1.1 | 1.1 | 0.4 | < 0.05 | 1.38 | 8.4 | 0.88 | 0.06 | 0.4 | 37.9 |
| 89785 | 10 | 16.4 | 2.67 | 0.84 | 7.51 | 2.11 | 1.66 | 0.1 | 60 | 73.2 | 400 | 3.36 | 2.0 | 23.9 | 1.3 | 1.5 | 0.5 | 0.06 | 1.04 | 9.7 | 1.08 | 0.04 | 0.3 | 39.0 |
| 89786 | < 5 | 18.0 | 2.21 | 0.84 | 6.81 | 1.85 | 1.42 | 0.2 | 60 | 82.3 | 397 | 3.67 | 4.7 | 24.0 | 1.2 | 1.1 | 0.4 | 0.08 | 1.26 | 9.3 | 0.99 | 0.06 | 0.3 | 43.5 |
| 89787 | 41 | 15.9 | 2.29 | 0.88 | 6.35 | 1.66 | 1.43 | 0.1 | 57 | 99.7 | 461 | 3.31 | 4.2 | 30.4 | 1.3 | 2.7 | 0.5 | 0.05 | 1.15 | 10.6 | 1.24 | 0.08 | 0.3 | 44.5 |
| 89788 | < 5 | 14.2 | 2.39 | 0.77 | 6.82 | 1.87 | 1.52 | 0.2 | 54 | 67.8 | 365 | 2.49 | 4.4 | 22.1 | 1.1 | 1.1 | 0.4 | 0.05 | 1.03 | 7.7 | 0.99 | 0.05 | 0.4 | 86.1 |
| 89801 | 8 | 20.7 | 2.32 | 1.61 | 6.95 | 1.50 | 2.12 | 0.1 | 59 | 94.4 | 713 | 4.71 | 3.2 | 41.7 | 1.9 | 1.5 | 0.8 | 0.06 | 2.14 | 17.6 | 2.02 | 0.04 | 0.7 | 61.3 |
| 89802 | < 5 | 25.3 | 1.89 | 2.14 | 6.56 | 1.37 | 2.47 | < 0.1 | 55 | 94.1 | 725 | 5.50 | 1.3 | 58.7 | 2.0 | 1.6 | 0.8 | 0.07 | 1.67 | 23.1 | 1.91 | 0.04 | 0.5 | 68.2 |
| 89803 | < 5 | 21.7 | 1.80 | 1.69 | 4.92 | 0.92 | 2.23 | 0.2 | 165 | 147 | 624 | 6.14 | 4.5 | 58.6 | 1.5 | 1.1 | 0.6 | 0.05 | 1.00 | 22.5 | 1.34 | 0.03 | 0.8 | 73.6 |
| 89804 | < 5 | 8.6 | 2.30 | 0.61 | 6.63 | 1.78 | 1.40 | 0.1 | 44 | 54.1 | 275 | 1.70 | 0.4 | 13.2 | 1.1 | 1.0 | 0.4 | < 0.05 | 1.32 | 4.8 | 0.94 | 0.07 | 0.5 | 27.6 |
| 89805 | < 5 | 7.5 | 2.05 | 0.59 | 5.87 | 1.63 | 1.16 | < 0.1 | 57 | 50.4 | 289 | 2.62 | < 0.1 | 13.5 | 1.0 | 1.0 | 0.4 | < 0.05 | 0.92 | 5.6 | 0.82 | 0.06 | 0.4 | 29.3 |
| 89806 | 7 | 20.7 | 2.06 | 1.10 | 6.41 | 1.45 | 1.78 | 0.2 | 51 | 82.7 | 608 | 5.06 | 2.5 | 33.0 | 1.9 | 1.9 | 0.8 | 0.06 | 1.30 | 15.5 | 1.65 | 0.06 | 0.7 | 84.4 |
| 89807 | < 5 | 8.9 | 2.41 | 0.82 | 6.32 | 1.44 | 1.79 | < 0.1 | 29 | 56.0 | 360 | 3.49 | 2.1 | 21.9 | 1.5 | 0.9 | 0.6 | < 0.05 | 1.18 | 8.0 | 1.56 | 0.06 | 0.4 | 34.5 |
| 89809 | < 5 | 16.9 | 2.15 | 0.89 | 6.22 | 1.65 | 1.66 | 0.2 | 53 | 60.7 | 1240 | 3.59 | 4.2 | 27.1 | 1.9 | 1.2 | 0.7 | 0.09 | 1.07 | 13.2 | 1.29 | 0.05 | 0.3 | 55.3 |
| 89810 | 6 | 13.2 | 2.33 | 0.69 | 6.61 | 1.88 | 1.54 | 0.1 | 52 | 57.4 | 418 | 2.94 | 2.8 | 20.0 | 1.2 | 1.3 | 0.5 | 0.05 | 0.90 | 10.2 | 0.98 | 0.05 | 0.4 | 38.6 |
| 89811 | < 5 | 19.1 | 2.16 | 0.81 | 7.79 | 1.86 | 1.26 | < 0.1 | 39 | 78.6 | 379 | 3.79 | 3.4 | 19.3 | 1.2 | 1.4 | 0.4 | 0.05 | 1.21 | 8.4 | 0.88 | 0.05 | 0.4 | 38.7 |
| 89812 | 26 | 12.9 | 2.40 | 0.65 | 6.13 | 1.11 | 1.43 | 0.2 | 51 | 84.8 | 375 | 2.53 | 7.6 | 20.4 | 1.1 | 1.3 | 0.4 | 0.07 | 0.87 | 7.8 | 0.74 | 0.03 | 0.3 | 39.8 |
| 89813 | < 5 | 14.2 | 2.35 | 0.71 | 7.41 | 1.69 | 1.47 | < 0.1 | 49 | 77.6 | 314 | 2.46 | 4.9 | 22.6 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.09 | 8.5 | 0.92 | 0.04 | 0.3 | 36.5 |
| 89814 | 29 | 15.6 | 2.26 | 0.76 | 7.11 | 1.66 | 1.26 | 0.1 | 38 | 48.4 | 460 | 3.23 | 1.8 | 21.7 | 1.8 | 1.3 | 0.7 | 0.05 | 1.50 | 8.3 | 1.32 | 0.05 | 0.3 | 50.3 |
| 89815 | < 5 | 14.0 | 2.25 | 0.72 | 7.17 | 1.92 | 1.44 | 0.1 | 46 | 43.9 | 385 | 2.29 | 0.2 | 21.3 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.22 | 8.2 | 0.96 | 0.04 | < 0.1 | 35.9 |
| 89816 | < 5 | 21.9 | 1.96 | 0.86 | 7.01 | 1.80 | 1.32 | 0.1 | 55 | 77.5 | 472 | 3.34 | 4.5 | 27.9 | 1.3 | 1.3 | 0.5 | 0.07 | 1.95 | 12.7 | 1.04 | 0.07 | < 0.1 | 43.5 |
| 89817 | < 5 | 16.2 | 1.99 | 0.80 | 7.21 | 1.88 | 1.24 | 0.1 | 31 | 52.5 | 341 | 2.83 | 0.2 | 24.7 | 1.1 | 1.2 | 0.4 | < 0.05 | 1.78 | 9.3 | 0.95 | 0.04 | < 0.1 | 38.7 |
| 89818 | < 5 | 16.9 | 1.87 | 0.80 | 6.94 | 1.76 | 1.57 | 0.2 | 62 | 64.2 | 551 | 3.05 | 4.0 | 25.7 | 1.4 | 1.5 | 0.5 | 0.13 | 2.22 | 12.5 | 1.17 | 0.06 | 0.5 | 42.7 |
| 89819 | < 5 | 14.3 | 1.93 | 0.76 | 6.82 | 1.85 | 1.14 | < 0.1 | 63 | 60.5 | 303 | 3.22 | 1.9 | 20.1 | 0.9 | 1.1 | 0.3 | 0.07 | 1.65 | 7.0 | 0.77 | 0.06 | < 0.1 | 34.7 |
| 89820 | < 5 | 18.6 | 2.10 | 0.77 | 7.48 | 1.88 | 1.29 | 0.2 | 52 | 78.4 | 351 | 3.08 | 4.1 | 22.8 | 1.0 | 1.4 | 0.4 | 0.06 | 1.58 | 8.7 | 0.82 | 0.04 | 0.2 | 38.4 |
| 89821 | 9 | 15.0 | 2.20 | 0.75 | 7.20 | 1.91 | 1.34 | 0.1 | 49 | 65.8 | 330 | 2.42 | 4.7 | 22.7 | 1.1 | 1.3 | 0.4 | 0.07 | 1.40 | 7.8 | 0.94 | 0.04 | < 0.1 | 37.3 |
| 89822 | < 5 | 15.4 | 2.19 | 0.81 | 7.20 | 1.93 | 1.50 | 0.1 | 47 | 66.1 | 388 | 2.80 | 0.4 | 27.3 | 1.3 | 1.4 | 0.5 | 0.05 | 1.36 | 9.8 | 1.06 | 0.04 | < 0.1 | 41.4 |
| 89823 | < 5 | 17.6 | 2.00 | 0.64 | 6.82 | 1.61 | 1.16 | 0.1 | 48 | 84.3 | 366 | 2.60 | 4.4 | 25.4 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.39 | 11.9 | 0.74 | 0.05 | < 0.1 | 41.5 |
| 89824 | < 5 | 19.2 | 2.05 | 0.92 | 7.10 | 1.79 | 1.87 | 0.1 | 68 | 94.0 | 496 | 3.41 | 4.2 | 26.4 | 1.4 | 1.2 | 0.5 | 0.13 | 1.98 | 10.7 | 0.95 | 0.05 | < 0.1 | 73.1 |
| 89825 | < 5 | 14.1 | 2.16 | 0.86 | 7.13 | 1.80 | 1.67 | 0.1 | 54 | 77.8 | 395 | 2.89 | 3.2 | 21.9 | 1.4 | 1.3 | 0.5 | 0.08 | 1.65 | 7.8 | 0.91 | 0.04 | < 0.1 | 66.9 |
| 89826 | 14 | 16.7 | 2.29 | 0.83 | 7.62 | 1.79 | 1.47 | 0.2 | 57 | 69.6 | 487 | 2.87 | 4.9 | 29.9 | 1.3 | 1.5 | 0.5 | 0.08 | 1.68 | 12.2 | 1.01 | 0.05 | 0.2 | 51.4 |
| 89827 | 8 | 17.9 | 1.99 | 0.79 | 6.93 | 1.74 | 1.75 | 0.2 | 52 | 78.0 | 405 | 2.65 | 3.9 | 24.9 | 1.1 | 1.3 | 0.4 | 0.13 | 1.81 | 8.2 | 0.85 | 0.05 | 0.4 | 56.7 |
| 89828 | 5 | 16.8 | 2.24 | 0.71 | 7.86 | 1.98 | 1.38 | 0.2 | 47 | 71.1 | 494 | 2.98 | 5.2 | 26.6 | 1.1 | 1.3 | 0.4 | 0.07 | 1.42 | 12.1 | 0.94 | 0.05 | < 0.1 | 39.1 |
| 89829 | 19 | 16.2 | 1.56 | 0.90 | 5.82 | 1.44 | 2.04 | 0.2 | 63 | 85.4 | 458 | 3.10 | 4.5 | 30.8 | 1.7 | 1.3 | 0.6 | 1.21 | 1.81 | 11.5 | 1.40 | 0.05 | 0.5 | 58.0 |
| 89830 | 8 | 13.3 | 1.91 | 0.65 | 6.48 | 1.60 | 1.55 | 0.2 | 52 | 74.8 | 345 | 2.43 | 4.9 | 21.9 | 1.1 | 1.3 | 0.4 | 0.12 | 1.81 | 7.6 | 0.81 | 0.04 | < 0.1 | 32.8 |
| 89831 | < 5 | 27.6 | 1.62 | 0.77 | 5.74 | 1.46 | 2.03 | < 0.1 | 51 | 64.2 | 285 | 2.53 | 0.2 | 17.5 | 1.8 | 1.0 | 0.6 | < 0.05 | 1.10 | 6.6 | 1.03 | 0.05 | < 0.1 | 36.0 |
| 89832 | < 5 | 17.9 | 2.22 | 0.87 | 7.68 | 1.96 | 1.37 | 0.2 | 67 | 85.3 | 409 | 2.98 | 6.4 | 24.5 | 1.3 | 1.4 | 0.5 | 0.07 | 1.58 | 9.9 | 1.02 | 0.04 | < 0.1 | 39.9 |
| 89833 | 11 | 25.4 | 1.78 | 1.10 | 6.86 | 1.52 | 1.35 | 0.2 | 104 | 130 | 900 | 5.76 | 5.6 | 32.3 | 1.6 | 1.8 | 0.6 | < 0.05 | 2.69 | 20.6 | 1.47 | 0.07 | 0.5 | 65.2 |
| 89834 | < 5 | 9.2 | 2.01 | 0.61 | 6.81 | 1.79 | 1.39 | 0.3 | 31 | 78.8 | 273 | 2.42 | 4.8 | 17.0 | 1.1 | 1.2 | 0.4 | 0.08 | 1.92 | 5.8 | 0.86 | 0.06 | 0.2 | 27.0 |
| 89835 | < 5 | 11.8 | 1.97 | 0.68 | 6.64 | 1.84 | 1.17 | 0.1 | 21 | 53.2 | 383 | 2.44 | 2.5 | 17.1 | 0.8 | 1.1 | 0.3 | < 0.05 | 1.39 | 6.7 | 0.68 | 0.05 | < 0.1 | 28.9 |
| 89836 | 9 | 15.3 | 2.43 | 0.74 | 7.68 | 2.01 | 1.64 | 0.1 | 48 | 59.2 | 351 | 2.51 | 4.2 | 22.0 | 1.2 | 1.4 | 0.4 | 0.09 | 1.30 | 7.5 | 0.88 | 0.04 | < 0.1 | 38.5 |
| 89837 | 24 | 26.4 | 1.74 | 1.09 | 7.12 | 1.80 | 1.51 | 0.3 | 75 | 123 | 5100 | 7.14 | 4.0 | 53.6 | 1.5 | 1.3 | 0.6 | 1.02 | 2.52 | 19.4 | 1.19 | 0.06 | 0.9 | 66.3 |
| 89838 | 7 | 16.4 | 2.28 | 0.80 | 7.49 | 1.88 | 1.50 | 0.1 | 54 | 64.8 | 413 | 2.86 | 5.0 | 26.2 | 1.2 | 1.4 | 0.4 | 0.07 | 1.35 | 10.0 | 0.98 | 0.04 | < 0.1 | 43.7 |
| 89839 | 6 | 15.0 | 2.33 | 0.74 | 7.63 | 1.99 | 1.43 | 0.1 | 48 | 68.6 | 424 | 2.72 | 5.0 | 23.3 | 1.2 | 1.2 | 0.4 | 0.10 | 1.18 | 10.6 | 0.97 | 0.05 | 0.1 | 36.0 |
| 89840 | < 5 | 9.5 | 2.12 | 0.49 | 6.70 | 1.73 | 1.19 | 0.1 | 17 | 44.0 | 232 | 1.68 | 1.3 | 10.7 | 0.8 | 1.0 | 0.3 | 3.26 | 1.15 | 4.3 | 0.75 | 0.04 | < 0.1 | 26.2 |
| 89841 | < 5 | 13.1 | 2.07 | 0.87 | 6.75 | 1.74 | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89842 | < 5 | 11.5 | 2.24 | 0.67 | 7.11 | 1.72 | 1.45 | 0.2 | 57 | 98.8 | 413 | 3.37 | 7.2 | 21.5 | 1.4 | 1.4 | 0.5 | 0.08 | 0.91 | 10.5 | 0.94 | 0.04 | < 0.1 | 97.2 |
| 89843 | < 5 | 12.9 | 2.24 | 0.66 | 6.88 | 1.93 | 1.42 | 0.1 | 44 | 60.4 | 350 | 2.18 | 4.6 | 19.3 | 1.1 | 1.3 | 0.4 | 0.05 | 1.01 | 7.8 | 0.89 | 0.03 | < 0.1 | 32.0 |
| 89844 | < 5 | 18.2 | 1.98 | 0.84 | 7.08 | 1.89 | 1.54 | 0.1 | 48 | 65.3 | 561 | 2.81 | 1.5 | 25.8 | 1.2 | 1.2 | 0.5 | 0.08 | 1.91 | 9.5 | 0.95 | 0.05 | 0.2 | 45.1 |
| 89845 | < 5 | 15.3 | 2.17 | 0.80 | 6.89 | 1.71 | 1.46 | 0.1 | 39 | 64.3 | 429 | 2.64 | 2.1 | 23.0 | 1.3 | 1.2 | 0.4 | 0.05 | 1.27 | 8.8 | 1.00 | 0.03 | < 0.1 | 45.2 |
| 89846 | < 5 | 17.9 | 2.10 | 0.81 | 7.79 | 2.04 | 1.25 | 0.1 | 56 | 74.7 | 349 | 2.44 | 4.4 | 24.0 | 1.0 | 1.3 | 0.4 | 0.05 | 2.13 | 7.8 | 0.79 | 0.10 | 0.9 | 43.1 |
| 89847 | < 5 | 17.0 | 2.24 | 0.77 | 7.45 | 1.88 | 1.54 | 0.1 | 51 | 53.2 | 399 | 2.65 | 4.8 | 23.5 | 1.1 | 1.3 | 0.4 | 0.07 | 1.55 | 8.6 | 0.84 | 0.05 | 0.9 | 42.6 |
| 89848 | < 5 | 24.5 | 2.34 | 1.34 | 7.30 | 1.80 | 1.84 | 0.4 | 87 | 89.4 | 3750 | 4.26 | 5.2 | 45.8 | 1.9 | 1.6 | 0.7 | 0.09 | 2.19 | 20.8 | 1.43 | 0.06 | 1.1 | 84.0 |
| 89849 | < 5 | 19.8 | 2.24 | 1.27 | 7.55 | 1.55 | 1.76 | 0.2 | 38 | 72.9 | 516 | 4.01 | 2.6 | 34.5 | 1.6 | 1.6 | 0.6 | < 0.05 | 1.28 | 13.9 | 1.43 | 0.04 | 0.8 | 52.5 |
| 89850 | 10 | 29.1 | 1.11 | 4.41 | 6.61 | 0.46 | 3.59 | 0.2 | 107 | 156 | 1900 | 7.93 | 2.9 | 103 | 2.1 | 1.7 | 0.8 | 0.09 | 1.23 | 38.2 | 1.90 | < 0.02 | 1.4 | 115 |
| 89851 | < 5 | 33.8 | 1.55 | 2.35 | 6.89 | 1.43 | 1.59 | < 0.1 | 50 | 209 | 707 | 6.17 | 1.5 | 82.8 | 1.8 | 1.5 | 0.7 | < 0.05 | 1.68 | 29.8 | 1.92 | 0.02 | 0.3 | 88.5 |
| 89852 | 7 | 15.5 | 2.20 | 1.10 | 7.11 | 1.92 | 1.81 | 0.2 | 39 | 93.0 | 773 | 4.11 | 2.9 | 41.6 | 1.6 | 1.3 | 0.6 | 0.09 | 1.10 | 17.9 | 1.55 | 0.04 | 0.5 | 53.5 |
| 89853 | 6 | 19.0 | 1.98 | 1.13 | 7.02 | 1.82 | 1.57 | 0.1 | 43 | 79.9 | 588 | 4.33 | 3.1 | 47.6 | 1.4 | 1.3 | 0.5 | 0.06 | 1.14 | 19.1 | 1.29 | 0.04 | 0.6 | 59.8 |
| 89854 | < 5 | 7.5 | 2.17 | 0.62 | 6.79 | 1.74 | 1.33 | < 0.1 | 15 | 60.1 | 289 | 3.27 | 0.8 | 17.9 | 1.0 | 1.0 | 0.4 | 0.06 | 1.22 | 6.4 | 0.94 | 0.05 | 0.3 | 29.8 |
| 89855 | 41 | 28.8 | 2.17 | 2.30 | 8.40 | 1.82 | 2.06 | 0.2 | 124 | 202 | 851 | 5.41 | 3.2 | 104 | 1.8 | 2.0 | 0.7 | < 0.05 | 1.61 | 32.4 | 1.83 | 0.05 | 0.7 | 82.9 |
| 89856 | 8 | 24.2 | 2.33 | 1.80 | 7.57 | 1.70 | 1.50 | 0.1 | 68 | 152 | 830 | 4.90 | 2.6 | 79.1 | 2.0 | 2.6 | 0.8 | 0.06 | 1.55 | 24.6 | 2.07 | 0.05 | 0.6 | 72.7 |
| 89857 | 8 | 24.9 | 2.24 | 1.98 | 8.01 | 1.59 | 1.48 | 0.2 | 70 | 148 | 754 | 5.20 | 2.4 | 77.6 | 1.8 | 2.4 | 0.7 | < 0.05 | 1.44 | 27.7 | 1.78 | 0.05 | 0.8 | 73.8 |
| 89858 | < 5 | 29.0 | 2.22 | 2.21 | 7.99 | 1.68 | 1.57 | 0.2 | 104 | 186 | 852 | 5.56 | 2.9 | 91.6 | 1.9 | 2.3 | 0.7 | 0.26 | 1.88 | 28.1 | 1.86 | 0.06 | 0.8 | 88.0 |
| 89859 | < 5 | 30.2 | 2.08 | 2.11 | 8.40 | 1.92 | 1.72 | 0.1 | 89 | 166 | 720 | 5.10 | 2.9 | 84.9 | 1.7 | 1.8 | 0.6 | 0.08 | 2.03 | 22.7 | 1.44 | 0.08 | 0.8 | 75.8 |
| 89860 | < 5 | 23.9 | 2.10 | 1.90 | 7.73 | 1.53 | 1.51 | 0.1 | 70 | 160 | 497 | 4.89 | 2.4 | 65.8 | 1.3 | 2.1 | 0.5 | 0.05 | 1.88 | 21.0 | 1.38 | 0.06 | 0.6 | 63.7 |
| 89861 | < 5 | 23.0 | 2.35 | 2.10 | 7.70 | 1.41 | 1.67 | < 0.1 | 47 | 130 | 777 | 5.14 | 1.5 | 83.6 | 1.8 | 2.0 | 0.7 | 0.06 | 1.43 | 27.0 | 1.74 | 0.06 | 0.8 | 70.7 |
| 89862 | 5 | 27.6 | 2.18 | 1.91 | 7.81 | 1.07 | 1.69 | 0.3 | 35 | 95.6 | 742 | 5.82 | 1.0 | 54.0 | 1.6 | 1.5 | 0.7 | 0.06 | 1.41 | 32.0 | 1.45 | 0.05 | 0.3 | 92.6 |
| 89863 | 8 | 25.9 | 2.31 | 1.84 | 8.13 | 1.82 | 1.49 | < 0.1 | 74 | 144 | 707 | 4.94 | 3.0 | 77.1 | 1.8 | 2.7 | 0.7 | < 0.05 | 1.76 | 23.4 | 1.88 | 0.06 | 0.6 | 67.7 |
| 89864 | 5 | 26.5 | 2.51 | 2.03 | 8.11 | 1.16 | 1.88 | 0.1 | 39 | 90.3 | 812 | 5.73 | 1.5 | 60.0 | 1.7 | 2.4 | 0.6 | < 0.05 | 1.47 | 29.4 | 1.59 | 0.04 | 0.7 | 65.3 |
| 89865 | < 5 | 36.4 | 2.47 | 3.01 | 8.18 | 0.76 | 2.03 | 0.2 | 53 | 70.3 | 1160 | 7.35 | 0.7 | 63.8 | 1.6 | 1.6 | 0.6 | < 0.05 | 2.21 | 41.6 | 1.53 | 0.03 | 0.5 | 73.9 |
| 89866 | 5 | 46.6 | > 3.00 | 3.21 | 7.73 | 1.19 | 1.11 | 0.3 | 102 | 319 | 986 | 8.86 | 1.7 | 145 | 1.2 | 4.5 | 0.5 | 0.09 | 3.73 | 48.1 | 1.52 | 0.03 | 0.6 | 94.5 |
| 89867 | 6 | 19.3 | > 3.00 | 1.31 | 7.40 | 0.95 | 1.26 | 0.1 | 52 | 248 | 559 | 5.60 | 2.6 | 122 | 1.2 | 2.3 | 0.4 | < 0.05 | 1.54 | 23.2 | 1.23 | 0.04 | 0.8 | 51.7 |
| 89868 | < 5 | 22.8 | 2.59 | 1.65 | 8.71 | 0.50 | 2.85 | 0.1 | 58 | 76.6 | 1230 | 6.27 | 1.0 | 51.0 | 2.2 | 1.4 | 0.8 | < 0.05 | 0.95 | 36.3 | 2.02 | < 0.02 | 0.8 | 74.2 |
| 89869 | < 5 | 37.3 | 1.39 | 3.93 | 8.20 | 0.26 | 2.61 | 0.2 | 58 | 40.7 | 1730 | 8.38 | < 0.1 | 56.9 | 1.3 | 1.1 | 0.5 | < 0.05 | 0.60 | 45.7 | 1.38 | 0.02 | 0.9 | 71.1 |
| 89870 | 10 | 21.6 | 2.63 | 1.50 | 8.04 | 1.63 | 1.73 | < 0.1 | 53 | 134 | 675 | 4.59 | 3.1 | 67.3 | 2.1 | 2.5 | 0.8 | < 0.05 | 1.29 | 22.3 | 2.07 | 0.05 | 0.8 | 61.1 |
| 89871 | < 5 | 29.5 | 2.34 | 2.20 | 8.32 | 1.24 | 1.65 | 0.1 | 97 | 192 | 791 | 6.26 | 3.0 | 88.5 | 2.2 | 2.7 | 0.9 | < 0.05 | 1.52 | 31.3 | 2.36 | 0.04 | 1.2 | 72.3 |
| 89872 | < 5 | 18.0 | 2.71 | 1.40 | 7.22 | 1.37 | 1.72 | 0.1 | 71 | 158 | 752 | 4.47 | 3.5 | 58.2 | 1.5 | 2.7 | 0.6 | 0.05 | 0.80 | 19.6 | 1.52 | 0.05 | 0.3 | 50.2 |
| 89873 | < 5 | 16.6 | 2.79 | 2.11 | 7.46 | 1.33 | 1.55 | 0.2 | 62 | 224 | 760 | 5.32 | 3.0 | 137 | 1.4 | 2.8 | 0.5 | 0.11 | 0.74 | 26.9 | 1.44 | 0.07 | 0.1 | 45.3 |
| 89874 | < 5 | 20.9 | 2.50 | 1.41 | 7.82 | 2.05 | 1.66 | < 0.1 | 42 | 91.0 | 530 | 3.88 | 1.9 | 42.9 | 1.2 | 1.6 | 0.5 | 0.05 | 1.38 | 14.1 | 1.12 | 0.05 | < 0.1 | 50.3 |
| 89875 | < 5 | 23.8 | 2.51 | 1.51 | 7.60 | 1.92 | 1.53 | < 0.1 | 55 | 123 | 637 | 4.47 | 3.1 | 58.1 | 1.6 | 2.3 | 0.6 | 0.06 | 1.58 | 18.9 | 1.59 | 0.06 | < 0.1 | 57.0 |
| 89876 | < 5 | 53.9 | 2.05 | 2.16 | 8.60 | 0.37 | 3.64 | 0.3 | 158 | 75.8 | 2130 | 7.74 | 0.7 | 91.7 | 2.4 | 1.4 | 0.9 | 0.28 | 0.58 | 65.8 | 1.95 | < 0.02 | 0.6 | 79.3 |
| 89877 | < 5 | 24.9 | 2.23 | 1.99 | 6.48 | 1.14 | 2.37 | 0.2 | 49 | 209 | 1070 | 5.50 | 1.9 | 87.4 | 1.8 | 3.6 | 0.7 | 0.06 | 1.23 | 27.9 | 1.89 | 0.04 | 0.2 | 71.1 |
| 89878 | < 5 | 40.2 | 2.41 | 2.87 | 7.99 | 0.91 | 2.24 | < 0.1 | 52 | 140 | 1350 | 7.72 | 0.9 | 86.6 | 1.9 | 2.8 | 0.7 | 0.06 | 1.81 | 46.2 | 1.96 | 0.04 | < 0.1 | 78.6 |
| 89879 | < 5 | 44.1 | > 3.00 | 2.32 | 8.46 | 0.78 | 1.89 | < 0.1 | 52 | 156 | 1180 | 7.29 | 1.3 | 95.8 | 2.0 | 2.8 | 0.8 | 0.07 | 0.88 | 53.3 | 1.92 | 0.08 | < 0.1 | 82.5 |
| 89880 | 8 | 29.1 | 2.54 | 1.82 | 7.12 | 1.35 | 1.61 | < 0.1 | 77 | 183 | 730 | 5.40 | 2.9 | 78.0 | 1.7 | 3.5 | 0.7 | 0.07 | 1.24 | 24.6 | 2.16 | 0.07 | < 0.1 | 68.1 |
| 89881 | 105 | 28.7 | 2.41 | 1.83 | 3.38 | 1.38 | 1.41 | 0.1 | 140 | 268 | 1100 | 5.53 | 4.6 | 115 | 1.3 | 3.9 | 0.5 | < 0.05 | 1.10 | 33.0 | 1.17 | 0.05 | < 0.1 | 89.5 |
| 89882 | < 5 | 94.1 | 1.93 | 4.45 | 9.31 | 0.53 | 2.43 | 0.2 | 107 | 56.6 | 1500 | 10.8 | 0.5 | 111 | 1.6 | 1.2 | 0.6 | < 0.05 | 1.08 | 76.6 | 1.62 | < 0.02 | < 0.1 | 86.9 |
| 89883 | < 5 | 46.6 | 1.46 | 2.65 | 6.91 | 0.53 | 3.09 | 0.3 | 128 | 67.5 | 3510 | 9.18 | 0.7 | 64.0 | 1.9 | 1.2 | 0.7 | < 0.05 | 0.62 | 59.1 | 1.67 | < 0.02 | 0.1 | 67.5 |
| 89884 | < 5 | 30.5 | 1.73 | 2.55 | 6.92 | 0.90 | 3.24 | 0.2 | 62 | 89.4 | 1080 | 6.22 | 1.1 | 54.5 | 1.8 | 1.5 | 0.7 | < 0.05 | 0.87 | 33.4 | 1.73 | 0.03 | < 0.1 | 62.1 |
| 89885 | < 5 | 48.0 | 1.63 | 4.91 | 8.95 | 0.39 | 2.35 | 0.1 | 81 | 51.9 | 1710 | 11.3 | 0.6 | 82.2 | 1.8 | 1.2 | 0.7 | < 0.05 | 1.16 | 70.9 | 1.64 | < 0.02 | < 0.1 | 95.4 |
| 89886 | 6 | 34.7 | 2.69 | 2.56 | 9.01 | 1.81 | 1.97 | 0.2 | 60 | 147 | 1410 | 7.36 | 1.4 | 98.5 | 2.4 | 3.1 | 1.0 | < 0.05 | 1.52 | 40.8 | 2.65 | 0.06 | < 0.1 | 89.2 |
| 89887 | < 5 | 33.8 | 2.64 | 2.15 | 8.91 | 0.96 | 2.09 | 0.2 | 70 | 119 | 2550 | 9.13 | 1.1 | 80.8 | 2.1 | 2.1 | 0.8 | < 0.05 | 0.89 | 50.9 | 2.20 | 0.03 | < 0.1 | 81.3 |
| 89888 | < 5 | 43.9 | 1.54 | 3.03 | 7.42 | 0.66 | 2.93 | 0.2 | 55 | 75.5 | 1620 | 8.31 | 0.5 | 66.5 | 2.4 | 1.4 | 0.9 | 0.08 | 1.10 | 44.4 | 2.37 | 0.03 | 0.1 | 71.4 |
| 89889 | < 5 | 47.4 | 2.10 | 2.73 | 7.81 | 1.17 | 1.78 | < 0.1 | 50 | 132 | 1230 | 7.82 | 1.2 | 69.6 | 1.9 | 2.9 | 0.8 | < 0.05 | 1.05 | 41.6 | 2.77 | 0.08 | < 0.1 | 76.2 |
| 89890 | < 5 | 31.9 | 2.23 | 2.21 | 8.03 | 1.79 | 1.72 | 0.1 | 54 | 129 | 1050 | 6.50 | 2.0 | 69.4 | 2.6 | 3.4 | 1.0 | < 0.05 | 1.25 | 28.8 | 3.15 | 0.08 | 0.2 | 105 |
| 89891 | < 5 | 22.4 | 2.31 | 0.97 | 2.92 | 1.33 | 1.12 | < 0.1 | 80 | 118 | 625 | 3.25 | 3.9 | 36.7 | 0.9 | 2.2 | 0.3 | < 0.05 | 0.97 | 13.8 | 0.67 | 0.05 | < 0.1 | 64.3 |
| 89892 | < 5 | 23.3 | 2.44 | 1.03 | 7.01 | 1.57 | 1.20 | < 0.1 | 87 | 104 | 405 | 5.21 | 5.8 | 29.1 | 1.1 | 1.1 | 0.4 | 0.07 | 1.36 | 12.9 | 1.13 | 0.06 | < 0.1 | 49.2 |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 1 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89894 | < 5 | 27.3 | 2.50 | 1.41 | 6.78 | 1.42 | 1.55 | < 0.1 | 83 | 252 | 1180 | 5.92 | 0.4 | 113 | 2.1 | 3.8 | 0.9 | < 0.05 | 1.23 | 26.4 | 2.82 | 0.10 | < 0.1 | 65.1 |
| 89895 | < 5 | 35.0 | 2.12 | 2.79 | 7.74 | 1.18 | 2.21 | 0.2 | 47 | 116 | 1230 | 7.29 | 0.8 | 80.2 | 2.3 | 2.5 | 0.9 | 0.13 | 1.29 | 40.1 | 2.45 | 0.04 | < 0.1 | 194 |
| 89896 | 5 | 32.8 | 2.50 | 2.30 | 7.94 | 1.76 | 2.10 | 0.2 | 61 | 152 | 1420 | 6.46 | 1.2 | 93.1 | 2.3 | 3.7 | 0.9 | 0.06 | 1.50 | 33.9 | 3.01 | 0.07 | < 0.1 | 90.0 |
| 89897 | < 5 | 24.6 | 2.31 | 1.42 | 7.66 | 1.81 | 1.63 | < 0.1 | 45 | 91.6 | 684 | 4.31 | 0.4 | 44.6 | 1.2 | 1.8 | 0.5 | < 0.05 | 1.55 | 17.8 | 1.17 | 0.06 | < 0.1 | 68.0 |
| 89898 | < 5 | 33.7 | 2.13 | 3.24 | 8.53 | 0.69 | 2.79 | < 0.1 | 118 | 91.8 | 1430 | 8.87 | 1.5 | 59.9 | 1.8 | 1.5 | 0.7 | < 0.05 | 0.76 | 56.5 | 1.79 | 0.02 | < 0.1 | 77.1 |
| 89899 | < 5 | 25.5 | 2.57 | 1.71 | 7.95 | 1.56 | 2.00 | < 0.1 | 55 | 110 | 702 | 5.53 | 3.1 | 48.0 | 2.1 | 2.0 | 0.8 | < 0.05 | 0.96 | 23.7 | 2.35 | 0.04 | < 0.1 | 57.4 |
| 89900 | 10 | 61.3 | 2.22 | 1.96 | 7.47 | 1.27 | 1.30 | < 0.1 | 90 | 150 | 508 | 6.73 | 2.4 | 54.6 | 2.7 | 2.7 | 1.0 | < 0.05 | 1.17 | 20.0 | 2.37 | 0.08 | < 0.1 | 77.6 |
| 89701 | < 5 | 19.3 | 2.51 | 1.78 | 3.36 | 0.10 | 1.52 | < 0.1 | 187 | 70.9 | 1550 | 8.28 | 1.0 | 78.9 | 0.6 | 1.1 | 0.3 | < 0.05 | 0.16 | 52.7 | 0.40 | 0.02 | < 0.1 | 58.1 |
| 89702 | 6 | 26.7 | 2.18 | 2.14 | 7.32 | 0.99 | 2.89 | 0.1 | 78 | 152 | 1610 | 6.45 | 2.3 | 62.4 | 2.2 | 2.0 | 0.9 | 0.06 | 1.16 | 28.7 | 2.83 | 0.04 | 0.1 | 78.8 |
| 89703 | < 5 | 24.4 | 1.77 | 5.16 | 7.28 | 0.35 | 5.13 | < 0.1 | 133 | 479 | 960 | 7.04 | 1.3 | 195 | 2.0 | 1.1 | 0.7 | < 0.05 | 0.28 | 43.8 | 1.36 | 0.02 | 0.2 | 60.1 |
| 89704 | < 5 | 34.8 | 2.57 | 2.64 | 8.59 | 0.93 | 2.89 | 0.2 | 55 | 86.4 | 1400 | 7.70 | 1.4 | 78.1 | 2.3 | 2.0 | 0.9 | 0.05 | 0.97 | 52.7 | 1.97 | 0.02 | < 0.1 | 91.7 |
| 89705 | < 5 | 31.2 | 2.62 | 2.68 | 8.19 | 1.02 | 1.64 | 0.2 | 35 | 124 | 748 | 6.44 | 1.3 | 95.7 | 1.5 | 2.0 | 0.6 | < 0.05 | 1.03 | 35.8 | 1.42 | 0.04 | < 0.1 | 65.3 |
| 89706 | < 5 | 40.7 | 2.87 | 3.28 | 8.79 | 0.43 | 3.21 | < 0.1 | 52 | 51.0 | 1030 | 9.01 | 0.2 | 66.2 | 1.8 | 1.8 | 0.7 | < 0.05 | 2.11 | 48.1 | 1.38 | < 0.02 | < 0.1 | 71.8 |
| 89707 | < 5 | 27.7 | 2.48 | 1.88 | 7.75 | 1.65 | 1.83 | 0.1 | 73 | 141 | 760 | 5.25 | 0.6 | 77.3 | 2.0 | 2.9 | 0.8 | 0.08 | 1.32 | 23.8 | 2.13 | 0.07 | 0.9 | 63.8 |
| 89708 | < 5 | 21.8 | 1.75 | 1.33 | 4.82 | 0.79 | 1.17 | < 0.1 | 63 | 173 | 507 | 3.85 | 0.5 | 73.8 | 1.7 | 3.6 | 0.7 | < 0.05 | 0.91 | 20.5 | 1.76 | 0.07 | 0.8 | 42.1 |
| 89709 | 15 | 31.6 | 2.81 | 1.27 | 3.94 | 1.14 | 0.87 | 0.2 | 136 | 333 | 752 | 5.31 | 4.3 | 114 | 1.2 | 4.8 | 0.4 | < 0.05 | 0.98 | 30.9 | 1.13 | 0.07 | 1.1 | 72.2 |
| 89710 | < 5 | 37.8 | 2.14 | 3.30 | 8.26 | 0.21 | 2.79 | 0.2 | 84 | 48.2 | 1870 | 6.99 | 0.2 | 65.6 | 1.7 | 1.2 | 0.7 | < 0.05 | 0.53 | 45.7 | 1.47 | < 0.02 | 1.0 | 75.7 |
| 89711 | < 5 | 43.3 | > 3.00 | 2.81 | 8.91 | 0.16 | 3.08 | 0.1 | 73 | 33.6 | 872 | 9.21 | 1.0 | 51.9 | 1.8 | 1.1 | 0.7 | < 0.05 | 0.25 | 48.5 | 1.18 | 0.02 | 0.8 | 69.8 |
| 89712 | < 5 | 26.0 | 2.58 | 2.18 | 7.75 | 1.50 | 2.12 | 0.1 | 75 | 135 | 1090 | 5.65 | 0.4 | 70.1 | 1.8 | 2.2 | 0.7 | 0.34 | 1.25 | 30.4 | 1.72 | 0.05 | 1.2 | 65.7 |
| 89713 | < 5 | 28.6 | 2.96 | 1.56 | 8.80 | 0.30 | 3.02 | < 0.1 | 47 | 63.1 | 387 | 5.39 | 0.4 | 37.1 | 2.0 | 2.0 | 0.9 | < 0.05 | 0.65 | 27.3 | 2.28 | 0.03 | 1.3 | 65.2 |
| 89714 | < 5 | 25.4 | 2.49 | 2.21 | 7.99 | 0.84 | 1.78 | 0.2 | 46 | 101 | 2120 | 7.67 | 0.9 | 60.2 | 2.4 | 2.1 | 0.9 | 0.07 | 1.94 | 40.0 | 2.15 | 0.05 | 1.0 | 94.2 |
| 89715 | 6 | 29.6 | 2.73 | 2.39 | 8.39 | 1.09 | 2.28 | 0.1 | 46 | 123 | 988 | 6.64 | 0.8 | 90.4 | 2.1 | 2.1 | 0.8 | < 0.05 | 1.41 | 36.9 | 2.04 | 0.05 | 0.9 | 68.8 |
| 89716 | < 5 | 7.6 | > 3.00 | 1.77 | 8.03 | 0.23 | 3.27 | 0.2 | 29 | 30.1 | 933 | 6.11 | 0.4 | 23.3 | 2.4 | 1.3 | 0.9 | 0.10 | 0.55 | 18.5 | 1.42 | 0.05 | 0.8 | 42.0 |
| 89717 | < 5 | 28.1 | 2.76 | 2.05 | 8.08 | 1.11 | 1.99 | 0.2 | 48 | 116 | 1100 | 6.46 | 1.2 | 66.1 | 1.9 | 1.9 | 0.7 | 0.06 | 1.28 | 34.1 | 1.85 | 0.04 | 0.9 | 73.8 |
| 89718 | 8 | 28.1 | 2.59 | 1.85 | 7.88 | 1.41 | 1.71 | 0.2 | 46 | 113 | 497 | 5.38 | 1.5 | 58.3 | 1.4 | 2.8 | 0.5 | 0.05 | 1.39 | 24.4 | 1.27 | 0.05 | 0.9 | 59.2 |
| 89719 | < 5 | 27.3 | 2.46 | 2.54 | 6.17 | 1.38 | 1.79 | 0.1 | 46 | 197 | 974 | 5.91 | 2.2 | 110 | 1.5 | 2.2 | 0.6 | < 0.05 | 1.30 | 35.1 | 1.42 | 0.05 | 0.8 | 52.6 |
| 89720 | < 5 | 25.3 | 2.40 | 2.25 | 7.72 | 1.08 | 2.14 | 0.1 | 62 | 158 | 781 | 5.86 | 1.7 | 82.0 | 1.7 | 1.6 | 0.7 | 0.05 | 1.16 | 31.8 | 1.48 | 0.04 | 0.8 | 66.3 |
| 89721 | < 5 | 19.0 | 2.13 | 2.19 | 7.08 | 0.71 | 2.78 | 0.1 | 56 | 169 | 748 | 5.64 | 1.5 | 83.8 | 2.0 | 1.8 | 0.8 | 0.08 | 0.69 | 30.5 | 1.88 | 0.05 | 1.2 | 53.2 |
| 89722 | < 5 | 24.9 | > 3.00 | 1.36 | > 10.0 | 0.99 | 3.65 | 0.1 | 30 | 85.4 | 1180 | 6.55 | 0.3 | 77.0 | 2.5 | 2.2 | 1.0 | < 0.05 | 0.79 | 39.4 | 2.46 | 0.04 | 1.0 | 70.1 |
| 89723 | < 5 | 35.6 | 2.49 | 3.33 | 8.55 | 1.05 | 2.22 | 0.1 | 39 | 161 | 939 | 6.91 | 0.6 | 103 | 1.9 | 1.8 | 0.7 | 0.05 | 1.32 | 41.3 | 1.59 | 0.03 | 0.8 | 77.6 |
| 89724 | < 5 | 26.4 | > 3.00 | 2.99 | 9.18 | 0.61 | 2.11 | 0.1 | 40 | 72.0 | 712 | 7.03 | 1.1 | 56.4 | 1.8 | 5.3 | 0.7 | < 0.05 | 1.14 | 34.4 | 0.80 | 0.05 | 0.7 | 63.9 |
| 89725 | < 5 | 22.9 | > 3.00 | 2.32 | 8.68 | 0.73 | 1.77 | 0.2 | 49 | 83.0 | 649 | 6.18 | 0.8 | 48.4 | 1.4 | 1.3 | 0.5 | < 0.05 | 1.21 | 30.8 | 1.03 | 0.08 | 0.8 | 79.1 |
| 89977 | < 5 | 32.0 | 2.26 | 1.53 | 7.88 | 2.05 | 1.34 | 0.1 | 35 | 82.9 | 613 | 3.99 | 1.8 | 45.6 | 1.4 | 1.5 | 0.5 | 0.07 | 2.02 | 17.5 | 1.23 | 0.08 | 0.3 | 85.0 |
| 89978 | 8 | 19.7 | > 3.00 | 1.69 | 7.53 | 1.21 | 0.93 | 0.2 | 35 | 59.7 | 906 | 6.31 | 1.6 | 41.5 | 1.5 | 2.4 | 0.6 | < 0.05 | 0.90 | 29.6 | 1.69 | 0.03 | 0.9 | 76.5 |
| 89979 | < 5 | 19.2 | 2.88 | 1.41 | 7.33 | 1.80 | 1.79 | 0.2 | 38 | 66.6 | 687 | 4.71 | 2.7 | 36.6 | 1.7 | 1.5 | 0.6 | 0.08 | 1.03 | 19.6 | 1.69 | 0.05 | 0.9 | 65.7 |
| 89980 | < 5 | 22.8 | 2.13 | 1.68 | 5.91 | 1.13 | 1.58 | 0.1 | 68 | 74.1 | 788 | 5.25 | 1.6 | 42.4 | 1.4 | 1.8 | 0.6 | 0.10 | 1.38 | 23.5 | 1.41 | 0.05 | 0.5 | 80.8 |
| 89981 | < 5 | 25.6 | > 3.00 | 2.03 | 3.06 | 0.68 | 0.82 | 0.4 | 215 | 62.8 | 1550 | 8.28 | 4.3 | 57.1 | 1.0 | 2.6 | 0.4 | 0.05 | 0.82 | 43.7 | 1.03 | 0.04 | 1.3 | 263 |
| 89982 | 9 | 23.7 | 2.73 | 1.37 | 7.04 | 1.64 | 1.36 | < 0.1 | 59 | 69.5 | 564 | 5.30 | 3.0 | 38.6 | 1.7 | 1.8 | 0.6 | 0.06 | 1.03 | 21.3 | 1.73 | 0.05 | 0.9 | 65.3 |
| 89983 | < 5 | 21.0 | 2.56 | 1.40 | 7.36 | 1.50 | 1.56 | 0.1 | 60 | 82.5 | 689 | 5.38 | 1.9 | 38.5 | 2.0 | 1.9 | 0.8 | 0.05 | 1.21 | 19.1 | 1.79 | 0.05 | 0.9 | 65.5 |
| 89984 | < 5 | 17.5 | 1.94 | 0.94 | 6.52 | 1.70 | 1.08 | < 0.1 | 40 | 69.7 | 492 | 5.78 | < 0.1 | 28.2 | 1.5 | 1.6 | 0.5 | < 0.05 | 1.39 | 14.5 | 1.11 | 0.06 | 1.0 | 61.1 |
| 89985 | < 5 | 16.7 | 2.17 | 0.98 | 6.72 | 1.87 | 1.30 | 0.1 | 33 | 73.7 | 451 | 4.35 | 0.3 | 27.6 | 1.6 | 1.6 | 0.6 | < 0.05 | 1.10 | 11.9 | 1.24 | 0.04 | 0.8 | 50.1 |
| 89986 | < 5 | 13.3 | 2.22 | 0.90 | 6.60 | 1.91 | 1.39 | < 0.1 | 31 | 58.9 | 419 | 3.20 | 0.7 | 24.4 | 1.6 | 1.2 | 0.6 | < 0.05 | 1.00 | 10.0 | 1.18 | 0.05 | 0.6 | 41.3 |
| 89987 | < 5 | 15.2 | 2.29 | 1.03 | 7.19 | 2.29 | 1.12 | < 0.1 | 37 | 69.9 | 456 | 6.58 | 1.1 | 38.7 | 2.5 | 2.6 | 0.9 | < 0.05 | 1.34 | 18.1 | 1.72 | 0.03 | 1.1 | 93.9 |
| 89988 | < 5 | 6.0 | 2.26 | 0.54 | 6.79 | 1.76 | 1.19 | < 0.1 | 18 | 46.9 | 194 | 1.53 | 0.5 | 11.3 | 1.0 | 1.3 | 0.4 | 0.06 | 1.31 | 4.7 | 0.99 | 0.06 | 0.8 | 24.9 |
| 89989 | < 5 | 22.4 | 1.81 | 2.00 | 6.90 | 1.55 | 1.53 | < 0.1 | 38 | 73.2 | 638 | 5.15 | 0.3 | 42.4 | 1.9 | 1.5 | 0.8 | < 0.05 | 1.52 | 20.0 | 1.65 | 0.04 | 0.8 | 67.2 |
| 89990 | < 5 | 17.4 | 1.98 | 1.15 | 3.88 | 1.08 | 1.11 | 0.1 | 105 | 80.2 | 685 | 4.39 | 5.4 | 37.5 | 1.3 | 1.5 | 0.5 | < 0.05 | 0.90 | 18.7 | 0.89 | 0.04 | 0.8 | 64.8 |
| 89991 | 9 | 17.0 | 2.19 | 1.18 | 6.64 | 1.61 | 1.73 | 0.1 | 50 | 78.0 | 777 | 3.74 | 3.9 | 30.4 | 1.5 | 1.2 | 0.6 | 0.08 | 0.98 | 14.0 | 1.34 | 0.04 | 0.8 | 50.6 |
| 89992 | < 5 | 23.6 | 1.75 | 2.21 | 6.47 | 1.55 | 1.66 | 0.2 | 71 | 71.2 | 1580 | 5.84 | 2.7 | 41.0 | 1.6 | 1.7 | 0.6 | 0.08 | 1.35 | 23.6 | 1.64 | 0.03 | 1.2 | 99.9 |
| 89993 | < 5 | 15.9 | 2.49 | 1.03 | 6.96 | 1.72 | 1.62 | < 0.1 | 48 | 62.5 | 524 | 4.51 | 0.3 | 21.8 | 2.8 | 1.7 | 1.1 | < 0.05 | 0.86 | 11.8 | 2.49 | 0.03 | 0.5 | 60.9 |
| 89994 | 10 | 19.5 | 2.37 | 0.94 | 7.21 | 1.74 | 1.73 | < 0.1 | 53 | 71.0 | 1350 | 3.41 | 4.1 | 26.8 | 1.6 | 1.4 | 0.6 | 0.09 | 1.17 | 10.5 | 1.33 | 0.04 | 0.5 | 50.6 |
| 89995 | < 5 | 23.6 | 2.13 | 1.38 | 6.30 | 1.66 | 1.66 | < 0.1 | 37 | 57.4 | 598 | 3.91 | 0.5 | 29.8 | 2.1 | 1.7 | 0.8 | < 0. | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89997 | < 5 | 18.9 | 2.43 | 1.14 | 7.03 | 1.77 | 1.81 | < 0.1 | 40 | 57.8 | 492 | 3.43 | 0.5 | 26.7 | 1.7 | 1.7 | 0.6 | < 0.05 | 1.07 | 11.8 | 1.39 | 0.02 | 0.3 | 47.9 |
| 89998 | < 5 | 20.6 | 2.29 | 1.46 | 6.70 | 1.57 | 1.86 | < 0.1 | 48 | 63.1 | 659 | 4.37 | < 0.1 | 37.7 | 1.9 | 1.7 | 0.7 | < 0.05 | 1.26 | 17.3 | 1.68 | 0.02 | 0.2 | 58.0 |
| 89999 | < 5 | 21.8 | 1.94 | 1.18 | 3.09 | 1.08 | 1.26 | < 0.1 | 124 | 88.7 | 510 | 4.45 | 4.6 | 31.6 | 1.1 | 1.1 | 0.4 | < 0.05 | 0.83 | 14.6 | 0.72 | 0.03 | 0.5 | 53.4 |
| 90000 | < 5 | 22.5 | 2.24 | 1.84 | 6.59 | 1.00 | 1.94 | < 0.1 | 60 | 89.3 | 564 | 5.26 | 2.2 | 44.1 | 1.9 | 1.4 | 0.7 | < 0.05 | 1.49 | 17.6 | 2.04 | 0.03 | 0.4 | 58.1 |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87501 | 17.0 | < 0.1 | 50.4 | 15.1 | 274 | 54 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 519 | 22.3 | 51.7 | 6.4 | 21.0 | 4.2 | 4.0 | 0.5 | 3.2 | 49.5 | 0.5 | 0.2 |
| 87502 | 19.6 | 0.2 | 27.9 | 14.9 | 321 | 21 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 299 | 18.9 | 37.8 | 5.6 | 18.8 | 3.8 | 3.5 | 0.5 | 2.8 | 43.0 | 0.5 | 0.2 |
| 87503 | 18.2 | < 0.1 | 66.9 | 15.2 | 221 | 81 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 599 | 23.9 | 45.9 | 6.8 | 21.7 | 4.1 | 3.7 | 0.5 | 2.8 | 29.2 | 0.7 | 0.2 |
| 87504 | 19.1 | 0.5 | 70.1 | 18.0 | 257 | 127 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 623 | 31.3 | 61.9 | 8.7 | 27.5 | 5.0 | 4.6 | 0.6 | 3.5 | 33.2 | 1.1 | 0.3 |
| 87505 | 21.5 | 1.1 | 76.6 | 14.3 | 237 | 81 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 595 | 23.4 | 45.4 | 6.5 | 20.7 | 4.0 | 3.6 | 0.5 | 2.7 | 38.4 | 0.9 | 0.2 |
| 87506 | 18.7 | 2.0 | 36.7 | 11.3 | 237 | 140 | 16.9 | 0.1 | < 0.1 | 1 | < 0.1 | 0.2 | 547 | 12.2 | 29.2 | 4.2 | 13.9 | 2.9 | 2.7 | 0.4 | 2.4 | 47.4 | 0.8 | 0.2 |
| 87507 | 19.2 | 1.6 | 71.7 | 17.5 | 296 | 126 | 3.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 652 | 29.4 | 58.5 | 8.3 | 27.4 | 5.2 | 4.7 | 0.6 | 3.5 | 64.6 | 0.8 | 0.3 |
| 87508 | 21.7 | 2.1 | 85.6 | 16.0 | 269 | 137 | 3.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 686 | 32.4 | 64.7 | 9.1 | 29.0 | 5.3 | 4.4 | 0.5 | 3.0 | 36.1 | 1.0 | 0.2 |
| 87509 | 18.5 | < 0.1 | 38.3 | 17.3 | 324 | 25 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 426 | 20.8 | 45.5 | 6.4 | 21.7 | 4.5 | 4.0 | 0.6 | 3.3 | 33.2 | 0.5 | 0.2 |
| 87510 | 18.9 | 0.4 | 70.5 | 14.1 | 269 | 20 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 620 | 32.3 | 63.3 | 8.6 | 27.2 | 4.9 | 4.2 | 0.5 | 2.9 | 27.0 | 0.7 | 0.2 |
| 87511 | 24.4 | 2.1 | 87.3 | 18.0 | 337 | 99 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 720 | 45.3 | 90.1 | 12.0 | 37.5 | 6.4 | 5.1 | 0.6 | 3.3 | 35.2 | 1.0 | 0.2 |
| 87512 | 17.5 | < 0.1 | 58.1 | 14.6 | 275 | 89 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 528 | 26.3 | 54.5 | 7.3 | 23.3 | 4.4 | 3.7 | 0.5 | 2.8 | 24.1 | 0.6 | 0.2 |
| 87513 | 20.9 | 1.4 | 78.4 | 16.3 | 306 | 130 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 676 | 33.7 | 66.1 | 9.2 | 28.9 | 5.2 | 4.4 | 0.6 | 3.2 | 27.9 | 1.0 | 0.2 |
| 87514 | 18.9 | 0.5 | 64.7 | 12.9 | 286 | 104 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 598 | 24.6 | 48.7 | 6.6 | 21.0 | 3.9 | 3.4 | 0.5 | 2.6 | 22.1 | 0.7 | 0.2 |
| 87515 | 19.0 | 1.9 | 68.9 | 11.1 | 303 | 127 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 658 | 23.3 | 46.6 | 6.3 | 19.9 | 3.6 | 3.0 | 0.4 | 2.2 | 10.1 | 0.7 | 0.2 |
| 87516 | 20.4 | 2.1 | 36.5 | 7.1 | 264 | 201 | 11.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 620 | 9.8 | 21.9 | 3.0 | 10.0 | 2.1 | 1.9 | 0.2 | 1.5 | 12.3 | 0.5 | 0.1 |
| 87517 | 18.6 | 0.7 | 64.9 | 12.6 | 256 | 135 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 563 | 20.9 | 43.0 | 5.8 | 18.6 | 3.6 | 3.2 | 0.4 | 2.5 | 27.6 | 0.6 | 0.2 |
| 87518 | 19.6 | < 0.1 | 17.6 | 18.0 | 244 | 18 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 175 | 19.9 | 44.5 | 6.5 | 23.1 | 4.8 | 4.6 | 0.6 | 3.7 | 14.1 | 0.6 | 0.2 |
| 87519 | 21.5 | 1.1 | 73.4 | 19.6 | 219 | 31 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 618 | 30.6 | 55.9 | 8.7 | 28.4 | 5.4 | 4.8 | 0.6 | 3.6 | 39.0 | 0.8 | 0.3 |
| 87520 | 19.7 | < 0.1 | 57.7 | 15.8 | 257 | 27 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 521 | 27.8 | 55.7 | 7.6 | 24.1 | 4.7 | 4.2 | 0.6 | 3.2 | 41.7 | 0.6 | 0.2 |
| 87521 | 21.7 | 0.5 | 51.8 | 14.5 | 316 | 48 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 498 | 22.1 | 47.6 | 6.6 | 22.0 | 4.3 | 3.8 | 0.5 | 2.9 | 33.1 | 0.7 | 0.2 |
| 87522 | 24.2 | 0.8 | 77.8 | 19.4 | 333 | 58 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 757 | 36.3 | 73.2 | 10.7 | 35.2 | 6.6 | 5.5 | 0.7 | 3.9 | 51.3 | 0.7 | 0.3 |
| 87523 | 19.9 | 0.8 | 66.3 | 12.3 | 249 | 55 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 493 | 19.6 | 39.5 | 5.4 | 17.2 | 3.3 | 2.9 | 0.4 | 2.4 | 14.8 | 0.6 | 0.2 |
| 87524 | 20.6 | 1.3 | 54.1 | 11.8 | 235 | 69 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 443 | 20.6 | 41.4 | 5.8 | 18.9 | 3.7 | 3.1 | 0.4 | 2.3 | 15.7 | 0.7 | 0.2 |
| 87525 | 21.4 | 1.4 | 76.2 | 15.7 | 290 | 116 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 644 | 34.7 | 67.5 | 9.3 | 28.9 | 5.1 | 4.1 | 0.5 | 3.0 | 65.3 | 1.0 | 0.2 |
| 87526 | 19.1 | 1.4 | 86.8 | 14.1 | 286 | 68 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 695 | 32.6 | 62.4 | 8.6 | 26.8 | 4.9 | 4.0 | 0.5 | 2.9 | 33.6 | 0.9 | 0.2 |
| 87527 | 21.6 | 1.8 | 62.7 | 12.3 | 266 | 161 | 8.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 628 | 22.6 | 46.5 | 6.4 | 20.3 | 3.9 | 3.2 | 0.4 | 2.5 | 28.8 | 0.8 | 0.2 |
| 87528 | 17.4 | 0.4 | 55.3 | 13.4 | 271 | 86 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 616 | 31.6 | 57.8 | 7.7 | 23.5 | 4.2 | 3.7 | 0.5 | 2.7 | 89.3 | 0.6 | 0.2 |
| 87529 | 22.0 | 1.3 | 64.4 | 18.1 | 282 | 37 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 641 | 28.6 | 56.7 | 8.1 | 26.4 | 5.0 | 4.5 | 0.6 | 3.4 | 35.5 | 0.7 | 0.3 |
| 87530 | 20.6 | 0.3 | 43.3 | 20.5 | 277 | 36 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 441 | 28.7 | 59.3 | 8.5 | 28.1 | 5.5 | 4.9 | 0.7 | 4.0 | 58.7 | 0.7 | 0.3 |
| 87531 | 19.5 | 1.4 | 61.6 | 20.9 | 291 | 51 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 579 | 30.7 | 60.2 | 8.8 | 29.0 | 5.7 | 5.4 | 0.7 | 4.1 | 59.9 | 0.7 | 0.3 |
| 87532 | 23.2 | 1.3 | 71.2 | 17.4 | 290 | 87 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 657 | 25.6 | 50.6 | 7.2 | 23.4 | 4.5 | 4.2 | 0.6 | 3.3 | 36.6 | 0.9 | 0.3 |
| 87533 | 20.6 | 3.8 | 46.5 | 21.0 | 289 | 93 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 546 | 32.7 | 62.4 | 9.1 | 29.5 | 5.5 | 4.9 | 0.7 | 3.8 | 166 | 0.9 | 0.3 |
| 87534 | 18.0 | 3.7 | 60.3 | 16.5 | 230 | 115 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 590 | 26.1 | 52.3 | 7.2 | 22.9 | 4.4 | 4.1 | 0.5 | 3.2 | 29.9 | 1.2 | 0.2 |
| 87535 | 21.2 | 2.5 | 29.4 | 15.1 | 301 | 62 | 15.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 428 | 19.1 | 38.2 | 5.3 | 17.8 | 3.5 | 3.4 | 0.5 | 2.7 | 56.4 | 1.5 | 0.2 |
| 87536 | 19.2 | < 0.1 | 55.4 | 14.8 | 255 | 87 | 6.1 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 518 | 17.6 | 41.3 | 4.9 | 16.0 | 3.2 | 3.3 | 0.5 | 2.9 | 43.0 | 0.6 | 0.2 |
| 87537 | 20.9 | < 0.1 | 55.1 | 15.1 | 258 | 35 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 498 | 16.8 | 40.2 | 4.8 | 16.0 | 3.2 | 3.1 | 0.5 | 2.8 | 42.9 | 0.1 | 0.2 |
| 87538 | 20.3 | < 0.1 | 62.2 | 16.0 | 266 | 35 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 566 | 23.0 | 46.5 | 6.2 | 19.7 | 3.9 | 3.5 | 0.5 | 3.0 | 28.8 | 0.2 | 0.2 |
| 87539 | 19.0 | < 0.1 | 61.6 | 15.0 | 225 | 40 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 565 | 26.9 | 52.9 | 7.2 | 23.1 | 4.4 | 3.9 | 0.5 | 3.0 | 27.0 | 0.3 | 0.2 |
| 87540 | 21.7 | < 0.1 | 52.1 | 21.3 | 269 | 66 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 503 | 31.1 | 61.2 | 9.2 | 30.7 | 6.1 | 5.5 | 0.7 | 4.2 | 61.0 | 0.3 | 0.3 |
| 87541 | 24.6 | 0.8 | 47.5 | 16.2 | 225 | 49 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 548 | 18.6 | 42.0 | 5.1 | 16.4 | 3.2 | 3.1 | 0.5 | 2.8 | 66.8 | 0.2 | 0.2 |
| 87542 | 20.2 | 0.5 | 59.6 | 13.0 | 210 | 88 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 590 | 19.1 | 39.1 | 5.3 | 16.7 | 3.2 | 2.9 | 0.4 | 2.5 | 33.1 | 0.3 | 0.2 |
| 87543 | 18.0 | 11.2 | 63.6 | 29.5 | 156 | 88 | 3.8 | 0.9 | < 0.1 | < 1 | 0.2 | 0.2 | 652 | 38.8 | 59.9 | 11.1 | 37.0 | 7.1 | 6.7 | 0.9 | 5.0 | 198 | 0.2 | 0.4 |
| 87544 | 20.7 | < 0.1 | 41.6 | 22.5 | 237 | 61 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 567 | 28.1 | 53.7 | 8.1 | 26.2 | 5.2 | 5.0 | 0.7 | 4.3 | 87.2 | 0.3 | 0.3 |
| 87545 | 18.7 | 4.8 | 8.6 | 7.6 | 173 | 139 | 18.4 | 0.5 | < 0.1 | 1 | 0.2 | 0.3 | 374 | 6.1 | 15.1 | 2.2 | 7.7 | 1.8 | 1.8 | 0.3 | 1.9 | 52.7 | 0.4 | 0.2 |
| 87546 | 23.3 | 0.5 | 53.2 | 13.9 | 198 | 138 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 507 | 14.7 | 30.4 | 4.2 | 13.5 | 2.7 | 2.6 | 0.4 | 2.4 | 29.0 | < 0.1 | 0.2 |
| 87547 | 20.7 | 5.8 | 7.0 | 27.8 | 231 | 11 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 276 | 30.0 | 62.8 | 9.3 | 31.4 | 6.5 | 6.3 | 0.9 | 5.4 | 140 | 0.1 | 0.4 |
| 87548 | 24.9 | < 0.1 | 58.6 | 14.6 | 268 | 61 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 564 | 17.0 | 34.1 | 4.7 | 14.8 | 2.9 | 2.8 | 0.4 | 2.5 | 26.3 | < 0.1 | 0.2 |
| 87549 | 19.3 | 0.7 | 47.3 | 20.7 | 215 | 73 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 600 | 30.9 | 61.9 | 8.9 | 28.3 | 5.4 | 4.9 | 0.7 | 3.9 | 71.8 | 0.3 | 0.3 |
| 87550 | 24.3 | 2.6 | 52.8 | 14.0 | 231 | 85 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 552 | 15.6 | 31.2 | 4.3 | 14.0 | 2.8 | 2.7 | 0.4 | 2.4 | 19.9 | 0.1 | 0.2 |
| 87551 | 20.9 | 3.2 | 70.2 | 24.9 | 215 | 85 | 0.9 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 556 | 28.4 | 55.0 | 8.4 | 27.7 | 5.6 | 5.3 | 0.8 | 4.6 | 145 | 0.6 | 0.4 |
| 87552 | 26.0 | < 0.1 | 9.9 | 33.6 | 284 | 22 | 2.7 | 0.1 | 0.1 | < 1 | < 0.1</ | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87553 | 24.1 | < 0.1 | 8.5 | 25.0 | 245 | 13 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 291 | 18.4 | 38.3 | 5.9 | 20.8 | 4.9 | 5.2 | 0.8 | 4.8 | 51.4 | 0.2 | 0.4 |
| 87554 | 20.7 | < 0.1 | 49.3 | 24.2 | 205 | 41 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 450 | 26.7 | 71.2 | 8.4 | 28.1 | 5.8 | 5.6 | 0.8 | 4.7 | 128 | 0.3 | 0.4 |
| 87555 | 20.8 | 2.3 | 21.1 | 8.8 | 205 | 123 | 19.3 | 0.6 | < 0.1 | 1 | 0.2 | 0.3 | 454 | 6.4 | 15.4 | 2.3 | 7.9 | 1.8 | 1.8 | 0.3 | 1.9 | 63.5 | 0.7 | 0.2 |
| 87556 | 20.2 | 0.4 | 54.6 | 16.6 | 199 | 87 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 592 | 21.3 | 42.2 | 6.0 | 19.6 | 3.9 | 3.6 | 0.5 | 3.0 | 78.7 | 0.2 | 0.3 |
| 87557 | 24.3 | < 0.1 | 48.9 | 16.4 | 201 | 36 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 476 | 14.8 | 31.2 | 4.4 | 14.7 | 3.1 | 3.2 | 0.5 | 3.0 | 27.8 | < 0.1 | 0.2 |
| 87558 | 17.6 | 0.8 | 64.5 | 17.2 | 183 | 75 | 2.4 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 694 | 28.7 | 51.2 | 7.9 | 25.5 | 4.8 | 4.4 | 0.6 | 3.2 | 85.4 | 0.5 | 0.3 |
| 87559 | 21.5 | < 0.1 | 79.2 | 12.6 | 259 | 71 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 654 | 20.9 | 41.1 | 5.4 | 16.9 | 3.2 | 2.9 | 0.4 | 2.4 | 36.1 | 0.2 | 0.2 |
| 87560 | 22.4 | < 0.1 | 77.8 | 15.8 | 240 | 67 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 625 | 26.9 | 52.9 | 7.3 | 23.1 | 4.3 | 3.9 | 0.5 | 3.0 | 37.5 | 0.3 | 0.2 |
| 87561 | 23.4 | < 0.1 | 74.7 | 11.5 | 236 | 62 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 622 | 18.6 | 37.0 | 5.0 | 15.7 | 2.9 | 2.6 | 0.3 | 2.1 | 13.2 | 0.1 | 0.2 |
| 87562 | 29.7 | < 0.1 | 25.0 | 19.2 | 265 | 49 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 221 | 10.3 | 21.2 | 3.0 | 9.9 | 2.2 | 2.6 | 0.4 | 3.1 | 18.3 | 0.4 | 0.3 |
| 87563 | 15.7 | < 0.1 | 23.4 | 27.2 | 167 | 14 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 295 | 33.3 | 58.1 | 9.5 | 30.8 | 6.0 | 5.9 | 0.8 | 5.0 | 161 | 0.2 | 0.4 |
| 87564 | 21.8 | < 0.1 | 71.4 | 13.7 | 237 | 49 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 586 | 21.5 | 41.5 | 5.7 | 17.8 | 3.4 | 3.2 | 0.4 | 2.6 | 18.0 | 0.1 | 0.2 |
| 87565 | 22.7 | < 0.1 | 25.3 | 7.8 | 193 | 153 | 30.1 | 1.1 | < 0.1 | 1 | 0.1 | 0.3 | 505 | 8.4 | 20.0 | 3.0 | 9.9 | 2.1 | 1.9 | 0.3 | 1.7 | 35.0 | 0.1 | 0.2 |
| 87566 | 21.2 | < 0.1 | 63.7 | 13.7 | 246 | 98 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 504 | 18.5 | 37.0 | 5.1 | 16.2 | 3.1 | 2.9 | 0.4 | 2.5 | 25.4 | < 0.1 | 0.2 |
| 87567 | 22.5 | < 0.1 | 62.2 | 11.9 | 239 | 42 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 570 | 17.4 | 33.9 | 4.6 | 14.3 | 2.7 | 2.6 | 0.4 | 2.2 | 14.5 | < 0.1 | 0.2 |
| 87568 | 24.9 | < 0.1 | 73.2 | 16.4 | 287 | 44 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 622 | 28.1 | 56.0 | 7.5 | 23.7 | 4.4 | 3.8 | 0.5 | 3.0 | 27.5 | 0.2 | 0.2 |
| 87569 | 21.2 | < 0.1 | 79.0 | 20.0 | 261 | 54 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 647 | 34.2 | 65.8 | 9.5 | 30.0 | 5.5 | 4.9 | 0.6 | 3.7 | 68.8 | 0.3 | 0.3 |
| 87570 | 20.5 | < 0.1 | 75.4 | 17.9 | 286 | 68 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 677 | 32.8 | 65.3 | 8.9 | 28.1 | 5.1 | 4.6 | 0.6 | 3.4 | 44.9 | 0.2 | 0.2 |
| 87571 | 18.6 | < 0.1 | 72.0 | 17.1 | 242 | 118 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 660 | 26.0 | 51.7 | 7.2 | 22.5 | 4.4 | 4.3 | 0.6 | 3.3 | 32.0 | 1.0 | 0.3 |
| 87572 | 20.9 | 1.2 | 66.3 | 15.8 | 247 | 74 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 590 | 22.3 | 44.5 | 6.2 | 19.9 | 3.8 | 3.6 | 0.5 | 2.8 | 26.4 | 0.6 | 0.2 |
| 87573 | 18.0 | 1.4 | 25.9 | 7.9 | 202 | 147 | 12.7 | 0.4 | < 0.1 | 1 | < 0.1 | 0.3 | 515 | 7.3 | 17.0 | 2.5 | 8.6 | 1.9 | 1.9 | 0.3 | 1.8 | 22.1 | 0.4 | 0.2 |
| 87574 | 16.6 | 2.3 | 61.1 | 20.5 | 225 | 121 | 2.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 527 | 31.3 | 58.3 | 8.8 | 28.4 | 5.4 | 5.3 | 0.7 | 3.9 | 73.6 | 0.6 | 0.3 |
| 87575 | 18.5 | 7.4 | 46.3 | 20.9 | 368 | 35 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 559 | 44.8 | 88.6 | 11.9 | 36.9 | 6.3 | 5.6 | 0.7 | 4.2 | 80.4 | 0.9 | 0.3 |
| 87576 | 18.5 | 1.8 | 47.0 | 24.6 | 267 | 58 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 625 | 51.1 | 85.5 | 12.5 | 38.1 | 6.5 | 6.1 | 0.8 | 4.7 | 71.3 | 0.6 | 0.4 |
| 87577 | 19.5 | 1.2 | 84.5 | 10.0 | 284 | 84 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 678 | 30.8 | 57.4 | 7.8 | 23.2 | 3.8 | 3.1 | 0.4 | 2.0 | 8.7 | 0.6 | 0.2 |
| 87578 | 20.0 | < 0.1 | 40.4 | 27.0 | 323 | 144 | 4.5 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 395 | 43.1 | 85.5 | 12.7 | 41.9 | 7.9 | 7.4 | 1.0 | 5.4 | 86.8 | 0.8 | 0.3 |
| 87579 | 18.7 | 1.9 | 62.0 | 25.0 | 320 | 90 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 635 | 52.5 | 94.6 | 14.1 | 43.7 | 7.7 | 7.1 | 0.9 | 5.1 | 83.3 | 0.7 | 0.3 |
| 87580 | 17.3 | 4.0 | 49.6 | 21.3 | 353 | 113 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 603 | 53.0 | 106 | 14.2 | 43.5 | 7.4 | 6.7 | 0.8 | 4.6 | 40.5 | 0.7 | 0.3 |
| 87581 | 17.9 | 3.4 | 68.0 | 17.4 | 324 | 102 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 666 | 34.9 | 66.5 | 9.8 | 30.5 | 5.4 | 4.7 | 0.6 | 3.3 | 59.5 | 0.8 | 0.2 |
| 87582 | 18.6 | < 0.1 | 85.6 | 22.0 | 292 | 125 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 614 | 32.8 | 65.6 | 9.3 | 30.2 | 5.7 | 5.7 | 0.8 | 4.4 | 75.4 | 0.7 | 0.3 |
| 87583 | 21.6 | 1.7 | 29.2 | 14.2 | 321 | 150 | 18.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 384 | 22.0 | 48.7 | 6.9 | 23.1 | 4.6 | 4.2 | 0.6 | 3.1 | 7.4 | 0.9 | 0.2 |
| 87584 | 17.0 | 0.7 | 69.7 | 21.6 | 273 | 152 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 551 | 39.7 | 75.0 | 10.7 | 33.6 | 6.1 | 5.8 | 0.8 | 4.4 | 62.0 | 0.6 | 0.3 |
| 87585 | 18.6 | 0.4 | 52.3 | 16.3 | 299 | 149 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 551 | 30.3 | 61.2 | 8.6 | 27.6 | 5.4 | 5.0 | 0.6 | 3.4 | 48.1 | 0.6 | 0.2 |
| 87586 | 21.2 | 2.1 | 80.3 | 9.8 | 296 | 181 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 677 | 24.4 | 48.7 | 6.6 | 20.4 | 3.6 | 2.9 | 0.4 | 1.9 | 9.5 | 0.8 | 0.1 |
| 87587 | 20.4 | < 0.1 | 8.6 | 37.4 | 623 | 73 | 0.9 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.4 | 229 | 38.3 | 76.4 | 10.7 | 35.9 | 7.4 | 8.0 | 1.2 | 7.2 | 366 | 0.7 | 0.5 |
| 87588 | 19.3 | 0.4 | 89.7 | 13.2 | 255 | 93 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 615 | 25.0 | 49.1 | 6.8 | 21.1 | 3.9 | 3.5 | 0.4 | 2.5 | 17.8 | 0.5 | 0.2 |
| 87589 | 21.4 | 0.4 | 68.8 | 13.4 | 288 | 84 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 756 | 28.4 | 56.2 | 7.6 | 23.6 | 4.2 | 3.7 | 0.5 | 2.6 | 24.5 | 0.5 | 0.2 |
| 87590 | 19.6 | 1.0 | 69.8 | 11.7 | 312 | 115 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 650 | 28.4 | 55.4 | 7.5 | 22.5 | 3.8 | 3.3 | 0.4 | 2.3 | 7.7 | 0.6 | 0.2 |
| 87591 | 25.7 | < 0.1 | 18.5 | 18.8 | 39.2 | 99 | 0.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 82 | 3.7 | 10.0 | 1.7 | 6.8 | 2.1 | 2.9 | 0.5 | 3.4 | 47.1 | 0.6 | 0.3 |
| 87592 | 19.9 | 5.3 | 59.9 | 19.7 | 323 | 126 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 523 | 30.2 | 58.9 | 8.2 | 26.1 | 4.9 | 4.6 | 0.6 | 3.7 | 18.9 | 0.7 | 0.3 |
| 87593 | 10.9 | 16.5 | 19.7 | 126 | 62.5 | 196 | 5.6 | 1.0 | 0.1 | < 1 | < 0.1 | 0.4 | 243 | 603 | 1100 | 125 | 369 | 56.6 | 53.1 | 6.2 | 32.3 | 44.5 | 1.8 | 1.8 |
| 87594 | 17.1 | 5.6 | 30.6 | 9.1 | 241 | 207 | 14.7 | 0.4 | < 0.1 | < 1 | 0.1 | 0.4 | 562 | 12.2 | 30.1 | 4.1 | 13.6 | 2.8 | 2.5 | 0.4 | 2.2 | 48.5 | 0.6 | 0.2 |
| 87595 | 20.4 | 2.3 | 81.5 | 11.9 | 312 | 214 | 1.1 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 666 | 25.1 | 50.8 | 6.8 | 20.8 | 3.7 | 3.2 | 0.4 | 2.1 | 16.4 | 0.5 | 0.2 |
| 87596 | 20.1 | 0.4 | 56.8 | 8.7 | 231 | 131 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 548 | 22.0 | 43.0 | 5.7 | 17.2 | 3.0 | 2.4 | 0.3 | 1.8 | 31.9 | 0.4 | 0.1 |
| 87597 | 22.8 | < 0.1 | 70.7 | 11.3 | 277 | 59 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 643 | 24.4 | 47.9 | 6.5 | 19.8 | 3.5 | 3.0 | 0.4 | 2.1 | 22.7 | 0.7 | 0.2 |
| 87598 | 22.3 | 1.5 | 109 | 15.2 | 291 | 82 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 814 | 38.5 | 75.8 | 10.4 | 31.4 | 5.2 | 4.4 | 0.5 | 2.9 | 41.4 | 0.9 | 0.2 |
| 87599 | 19.3 | 2.0 | 76.4 | 12.4 | 293 | 38 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 698 | 30.1 | 61.9 | 8.1 | 24.9 | 4.4 | 3.7 | 0.5 | 2.5 | 29.1 | 0.7 | 0.2 |
| 87600 | 24.9 | 0.6 | 84.5 | 11.7 | 272 | 101 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 692 | 29.2 | 57.0 | 7.8 | 23.6 | 4.2 | 3.5 | 0.4 | 2.3 | 12.5 | 0.6 | 0.2 |
| 87801 | 19.2 | < 0.1 | 62.5 | 34.2 | 263 | 110 | 0.6 | 0.3 | < 0.1 | 1 | < 0.1 | 0.2 | 607 | 108 | 239 | 29.8 | 90.2 | 15.0 | 12.7 | 1.5 | 8.0 | 45.3 | 0.9 | 0.5 |
| 87802 | 14.8 | 4.8 | 47.2 | 50.7 | 262 | 33 | 0.6 | 0.9 | 0.1 | 1 | < 0.1 | 0.2 | 744 | 235 | 462 | 61.0 | 184 | 28.7 | 24.3 | 2.8 | 13.0 | 81.8 | 1.2 | 0.6 |
| 87803 | 18.6 | 1.8 | 23.3 | 31.8 | 383 | 315 | 200 | 3.0 | 0.1 | 3 | < 0.1 | 0.7 | 1110 | 73.6 | 165 | 23.6 | 77.5 | 14.6 | 13.9 | 1.7 | 9.0 | 148 | 1.4 | 0.5 |
| 87804 | 17.5 | < 0.1 | 61.6 | 50.9 | 345 | 29 | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87805 | 19.1 | < 0.1 | 66.4 | 25.1 | 342 | 52 | 10.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 821 | 67.4 | 145 | 19.1 | 60.5 | 10.9 | 9.9 | 1.2 | 6.2 | 41.9 | 0.6 | 0.3 |
| 87806 | 18.9 | < 0.1 | 64.3 | 26.2 | 415 | 48 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 834 | 76.5 | 159 | 21.9 | 70.1 | 12.4 | 10.8 | 1.3 | 6.4 | 62.1 | 0.3 | 0.3 |
| 87807 | 22.8 | < 0.1 | 40.8 | 24.6 | 443 | 102 | 0.6 | < 0.1 | 0.1 | < 1 | < 0.1 | 0.3 | 605 | 87.6 | 182 | 25.6 | 82.8 | 14.6 | 12.7 | 1.4 | 6.7 | 118 | 0.3 | 0.3 |
| 87808 | 19.1 | < 0.1 | 70.3 | 30.9 | 418 | 115 | 1.3 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.4 | 864 | 87.7 | 172 | 25.0 | 80.3 | 14.2 | 12.9 | 1.5 | 7.6 | 95.4 | 0.5 | 0.4 |
| 87809 | 20.0 | < 0.1 | 50.7 | 24.3 | 346 | 57 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 513 | 49.9 | 107 | 14.9 | 48.4 | 9.0 | 8.0 | 1.0 | 5.3 | 72.0 | 0.3 | 0.3 |
| 87810 | 18.9 | < 0.1 | 87.1 | 16.4 | 267 | 94 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 758 | 37.9 | 74.2 | 10.3 | 31.2 | 5.5 | 4.9 | 0.6 | 3.4 | 34.9 | 0.4 | 0.2 |
| 87811 | 17.6 | < 0.1 | 71.8 | 18.9 | 279 | 81 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 674 | 40.0 | 75.4 | 11.0 | 34.8 | 6.4 | 5.9 | 0.8 | 4.1 | 49.2 | 0.4 | 0.3 |
| 87812 | 18.0 | < 0.1 | 19.2 | 10.7 | 249 | 133 | 48.3 | 1.1 | < 0.1 | 1 | < 0.1 | 0.3 | 593 | 13.3 | 33.0 | 4.8 | 16.6 | 3.7 | 3.6 | 0.5 | 2.9 | 68.5 | 0.2 | 0.2 |
| 87813 | 21.1 | < 0.1 | 49.8 | 27.5 | 306 | 108 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 606 | 65.9 | 128 | 18.7 | 59.6 | 10.6 | 9.5 | 1.2 | 6.0 | 78.9 | 0.3 | 0.4 |
| 87814 | 17.5 | < 0.1 | 47.0 | 22.5 | 290 | 89 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 582 | 68.5 | 171 | 17.8 | 54.6 | 9.0 | 8.4 | 1.0 | 5.5 | 48.5 | 0.2 | 0.3 |
| 87815 | 22.1 | < 0.1 | 75.4 | 20.2 | 224 | 31 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 664 | 44.5 | 82.0 | 11.9 | 37.2 | 6.7 | 6.1 | 0.8 | 4.1 | 51.0 | 0.3 | 0.3 |
| 87816 | 21.2 | < 0.1 | 48.4 | 22.3 | 284 | 55 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 571 | 46.5 | 106 | 13.0 | 41.2 | 7.5 | 6.7 | 0.9 | 4.7 | 56.4 | 0.2 | 0.3 |
| 87817 | 20.2 | < 0.1 | 62.5 | 23.4 | 273 | 61 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 613 | 45.7 | 87.3 | 13.0 | 41.1 | 7.6 | 7.1 | 0.9 | 5.0 | 70.6 | 0.3 | 0.3 |
| 87818 | 20.3 | < 0.1 | 60.5 | 25.7 | 284 | 69 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 607 | 54.3 | 95.7 | 15.2 | 48.6 | 8.8 | 7.9 | 1.0 | 5.5 | 67.6 | 0.3 | 0.3 |
| 87819 | 22.1 | < 0.1 | 83.2 | 17.7 | 211 | 91 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 647 | 33.5 | 65.8 | 9.1 | 28.3 | 5.2 | 4.6 | 0.6 | 3.4 | 44.4 | 0.6 | 0.2 |
| 87820 | 18.9 | < 0.1 | 34.1 | 22.8 | 254 | 63 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 446 | 37.6 | 74.8 | 10.1 | 32.1 | 6.0 | 6.0 | 0.9 | 4.9 | 59.7 | 0.3 | 0.3 |
| 87821 | 19.6 | < 0.1 | 59.1 | 19.9 | 235 | 114 | 11.6 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 611 | 40.9 | 81.3 | 11.4 | 35.9 | 6.6 | 6.2 | 0.8 | 4.3 | 58.9 | 0.6 | 0.3 |
| 87822 | 19.7 | < 0.1 | 29.4 | 19.5 | 221 | 129 | 99.7 | 1.0 | < 0.1 | 2 | 0.1 | 0.4 | 665 | 29.0 | 59.3 | 10.3 | 34.5 | 7.1 | 6.8 | 1.0 | 5.3 | 98.1 | 0.7 | 0.3 |
| 87823 | 19.9 | < 0.1 | 74.2 | 19.2 | 200 | 106 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 613 | 36.6 | 73.1 | 10.5 | 32.8 | 6.0 | 5.4 | 0.7 | 4.0 | 42.8 | 0.2 | 0.3 |
| 87824 | 18.2 | < 0.1 | 58.9 | 31.0 | 261 | 46 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 673 | 72.9 | 129 | 20.1 | 62.9 | 11.3 | 10.1 | 1.3 | 6.8 | 113 | 0.4 | 0.4 |
| 87825 | 21.4 | < 0.1 | 83.3 | 17.8 | 218 | 82 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 688 | 34.1 | 65.8 | 9.3 | 28.6 | 5.3 | 4.8 | 0.6 | 3.6 | 36.7 | 0.4 | 0.2 |
| 87826 | 19.4 | 0.3 | 38.8 | 22.7 | 258 | 55 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 467 | 43.2 | 94.1 | 12.4 | 39.3 | 7.2 | 6.4 | 0.9 | 4.7 | 71.5 | 0.3 | 0.3 |
| 87827 | 17.7 | < 0.1 | 68.1 | 16.4 | 217 | 75 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 612 | 30.6 | 59.9 | 8.3 | 26.4 | 4.8 | 4.6 | 0.6 | 3.4 | 38.8 | 0.3 | 0.2 |
| 87828 | 18.7 | < 0.1 | 45.6 | 24.7 | 256 | 59 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 459 | 41.8 | 87.9 | 12.2 | 39.4 | 7.5 | 7.0 | 0.9 | 5.1 | 53.3 | 0.3 | 0.3 |
| 87829 | 20.0 | < 0.1 | 76.0 | 16.1 | 243 | 96 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 642 | 29.6 | 58.7 | 8.3 | 26.0 | 4.7 | 4.3 | 0.6 | 3.0 | 43.1 | 0.6 | 0.2 |
| 87830 | 19.9 | < 0.1 | 68.6 | 18.1 | 276 | 69 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 596 | 28.1 | 56.1 | 8.1 | 25.6 | 4.9 | 4.5 | 0.6 | 3.5 | 49.7 | 0.2 | 0.3 |
| 87831 | 18.1 | < 0.1 | 65.4 | 17.1 | 239 | 62 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 585 | 26.9 | 54.0 | 7.8 | 24.7 | 4.9 | 4.7 | 0.6 | 3.5 | 45.2 | 0.3 | 0.2 |
| 87832 | 17.9 | < 0.1 | 57.9 | 14.6 | 211 | 118 | 11.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 497 | 22.3 | 45.5 | 6.5 | 20.3 | 3.9 | 3.6 | 0.5 | 2.8 | 38.0 | 1.1 | 0.2 |
| 87833 | 17.7 | < 0.1 | 66.0 | 15.2 | 220 | 89 | 13.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 540 | 24.4 | 48.4 | 6.9 | 21.7 | 4.2 | 3.8 | 0.5 | 3.0 | 43.0 | 1.3 | 0.2 |
| 87834 | 15.6 | < 0.1 | 33.3 | 17.2 | 210 | 37 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 364 | 18.2 | 35.1 | 5.6 | 18.6 | 3.9 | 4.1 | 0.6 | 3.5 | 103 | 0.4 | 0.3 |
| 87835 | 16.7 | < 0.1 | 15.1 | 21.1 | 143 | 59 | 14.2 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.1 | 240 | 24.8 | 45.6 | 7.7 | 26.3 | 5.4 | 5.4 | 0.7 | 4.1 | 37.6 | 0.9 | 0.3 |
| 87836 | 17.7 | < 0.1 | 9.7 | 15.5 | 350 | 22 | 8.4 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 154 | 17.9 | 41.5 | 6.0 | 20.5 | 4.4 | 4.2 | 0.6 | 3.3 | 28.4 | 0.7 | 0.2 |
| 87837 | 16.9 | < 0.1 | 28.2 | 22.3 | 261 | 63 | 5.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 394 | 31.9 | 61.2 | 9.6 | 31.5 | 6.3 | 6.3 | 0.9 | 5.1 | 194 | 0.5 | 0.3 |
| 87838 | 17.4 | < 0.1 | 90.4 | 13.8 | 224 | 54 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 582 | 28.3 | 51.6 | 7.9 | 24.7 | 4.6 | 4.2 | 0.5 | 2.9 | 36.2 | 0.4 | 0.2 |
| 87839 | 16.8 | < 0.1 | 49.5 | 25.8 | 234 | 74 | 2.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 604 | 54.7 | 94.6 | 15.4 | 48.3 | 8.8 | 7.8 | 1.0 | 5.3 | 77.3 | 0.7 | 0.3 |
| 87840 | 18.0 | < 0.1 | 49.7 | 23.0 | 286 | 88 | 10.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 522 | 49.5 | 99.5 | 14.0 | 43.0 | 7.7 | 6.9 | 0.9 | 5.0 | 49.1 | 0.7 | 0.3 |
| 87841 | 16.6 | < 0.1 | 33.0 | 28.4 | 274 | 97 | 3.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 500 | 78.3 | 164 | 22.6 | 69.4 | 12.1 | 10.7 | 1.4 | 7.2 | 91.5 | 0.6 | 0.4 |
| 87842 | 18.7 | < 0.1 | 27.9 | 20.3 | 287 | 94 | 7.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 475 | 42.9 | 96.9 | 12.2 | 38.6 | 7.2 | 6.6 | 0.9 | 4.7 | 47.6 | 0.6 | 0.3 |
| 87843 | 19.0 | < 0.1 | 26.2 | 31.4 | 317 | 103 | 1.0 | < 0.1 | 0.1 | < 1 | < 0.1 | 0.2 | 514 | 83.5 | 223 | 22.6 | 67.9 | 11.3 | 10.0 | 1.3 | 7.1 | 78.1 | 0.6 | 0.4 |
| 87844 | 14.2 | < 0.1 | 39.5 | 26.8 | 328 | 46 | 10.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 657 | 57.3 | 114 | 16.3 | 51.5 | 9.4 | 8.6 | 1.1 | 6.0 | 87.4 | 0.6 | 0.4 |
| 87845 | 20.2 | < 0.1 | 18.2 | 16.3 | 275 | 26 | 7.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 215 | 19.6 | 40.1 | 5.9 | 19.6 | 4.2 | 4.2 | 0.6 | 3.5 | 14.1 | 0.5 | 0.2 |
| 87846 | 7.1 | < 0.1 | 33.7 | 92.1 | 394 | 49 | 20.5 | 41.8 | 0.4 | 2 | < 0.1 | 0.5 | 831 | 511 | 1020 | 123 | 365 | 56.1 | 46.0 | 5.1 | 24.7 | 329 | 1.8 | 1.2 |
| 87847 | 15.5 | < 0.1 | 49.2 | 26.4 | 247 | 71 | 1.2 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 668 | 68.7 | 159 | 19.9 | 61.7 | 11.1 | 9.8 | 1.3 | 6.5 | 86.2 | 0.5 | 0.4 |
| 87848 | 15.6 | < 0.1 | 50.7 | 33.6 | 254 | 65 | 0.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 758 | 102 | 198 | 28.4 | 87.9 | 15.0 | 13.1 | 1.6 | 8.0 | 132 | 0.6 | 0.4 |
| 87849 | 18.9 | < 0.1 | 74.4 | 19.2 | 242 | 120 | 36.3 | 0.5 | < 0.1 | 1 | < 0.1 | 0.2 | 602 | 48.4 | 94.9 | 13.4 | 42.4 | 7.6 | 6.6 | 0.9 | 4.5 | 92.0 | 1.2 | 0.3 |
| 87850 | 30.6 | < 0.1 | 4.2 | 15.6 | 541 | 151 | 8.9 | 0.3 | 0.1 | < 1 | < 0.1 | 0.3 | 397 | 24.0 | 53.5 | 7.9 | 27.5 | 6.2 | 6.0 | 0.8 | 4.5 | 50.5 | 0.6 | 0.2 |
| 87851 | 22.1 | < 0.1 | 26.8 | 13.4 | 338 | 184 | 4.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 871 | 25.7 | 55.2 | 8.7 | 29.7 | 6.2 | 5.8 | 0.7 | 3.6 | 83.7 | 0.4 | 0.2 |
| 87852 | 14.8 | < 0.1 | 68.4 | 56.6 | 500 | 67 | 18.0 | 0.9 | 0.1 | < 1 | < 0.1 | 0.3 | 845 | 183 | 330 | 45.2 | 137 | 23.1 | 20.4 | 2.5 | 12.8 | 124 | 0.9 | 0.7 |
| 87853 | 14.1 | < 0.1 | 72.4 | 30.7 | 220 | 146 | 19.6 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.3 | 1080 | 87.3 | 161 | 23.4 | 71.9 | 12.2 | 11.0 | 1.4 | 7.2 | 147 | 0.8 | 0.4 |
| 87854 | 16.8 | < 0.1 | 80.1 | 29.5 | 244 | 42 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 1000 | 86.0 | 156 | 22.6 | 68.8 | 11.9 | 10.5 | 1.3 | 6.6 | 71.9 | 0.5 | 0.4 |
| 87855 | 15.3 | < 0.1 | 55.7 | 23.5 | 213 | 84 | 2.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 672 | 70.7 | 109 | 18.1 | 53.9 | 9.1 | 7.5 | 1.0 | 5.0 | 69.0 | 0.5 | 0.3 |
| 87856 | 13.3 | 0.9 | 58.6 | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87857 | 14.7 | < 0.1 | 64.7 | 35.1 | 265 | 74 | 0.6 | 0.1 | 0.1 | < 1 | < 0.1 | 0.2 | 1390 | 98.2 | 200 | 28.1 | 87.7 | 14.9 | 13.6 | 1.7 | 8.6 | 158 | 0.7 | 0.5 |
| 87858 | 12.3 | < 0.1 | 51.4 | 31.7 | 234 | 94 | 7.6 | 1.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 877 | 89.9 | 171 | 24.6 | 75.0 | 12.8 | 11.3 | 1.4 | 7.3 | 111 | 0.7 | 0.4 |
| 87859 | 13.4 | < 0.1 | 72.8 | 40.6 | 370 | 52 | 0.8 | 0.1 | 0.1 | < 1 | < 0.1 | 0.3 | 950 | 131 | 256 | 35.9 | 111 | 18.8 | 16.6 | 2.0 | 10.0 | 143 | 0.7 | 0.5 |
| 87860 | 6.2 | 3.5 | 10.5 | 506 | 607 | 12 | 8.5 | 3.0 | 0.6 | < 1 | < 0.1 | 0.3 | 718 | 2510 | 4580 | 712 | 2120 | > 100 | 246 | 27.2 | 124 | 44.4 | 8.7 | 5.4 |
| 87861 | < 0.1 | < 0.1 | 17.7 | 157 | > 1000 | 142 | > 500 | 3.9 | 0.1 | 5 | < 0.1 | 1.8 | 627 | 377 | 755 | 106 | 332 | 61.0 | 64.3 | 9.2 | 46.9 | 80.7 | 1.4 | 1.7 |
| 87862 | 9.8 | < 0.1 | 26.7 | 41.6 | 298 | 202 | 9.9 | 1.2 | 0.1 | < 1 | < 0.1 | 0.4 | 953 | 207 | 359 | 49.0 | 144 | 22.7 | 19.8 | 2.4 | 11.7 | 102 | 0.8 | 0.5 |
| 87863 | < 0.1 | < 0.1 | 76.8 | 125 | 841 | 151 | 88.7 | 12.5 | 0.4 | 2 | < 0.1 | 0.6 | 1380 | 501 | 774 | 105 | 307 | 48.0 | 44.3 | 5.4 | 28.3 | 264 | 1.3 | 1.6 |
| 87864 | 15.6 | < 0.1 | 52.2 | 28.6 | 523 | 26 | 1.5 | < 0.1 | 0.1 | < 1 | < 0.1 | 0.2 | 898 | 85.5 | 166 | 26.3 | 85.5 | 15.6 | 13.5 | 1.7 | 8.0 | 56.6 | 0.5 | 0.3 |
| 87865 | 18.5 | < 0.1 | 49.9 | 25.0 | 428 | 73 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 682 | 71.8 | 165 | 21.8 | 68.3 | 12.2 | 10.3 | 1.3 | 6.4 | 30.4 | 0.5 | 0.3 |
| 87866 | 18.2 | < 0.1 | 35.3 | 37.3 | 362 | 86 | 4.4 | < 0.1 | 0.1 | < 1 | < 0.1 | 0.2 | 476 | 66.1 | 148 | 18.2 | 56.5 | 9.8 | 9.3 | 1.3 | 7.8 | 40.0 | 0.5 | 0.5 |
| 87867 | 19.0 | < 0.1 | 44.0 | 18.0 | 315 | 133 | 22.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 595 | 33.6 | 78.5 | 9.8 | 31.1 | 5.8 | 5.2 | 0.7 | 4.0 | 31.1 | 0.5 | 0.2 |
| 87868 | 18.2 | < 0.1 | 54.2 | 15.5 | 330 | 91 | 19.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 453 | 26.4 | 55.4 | 7.5 | 23.6 | 4.3 | 4.0 | 0.6 | 3.3 | 33.8 | 0.5 | 0.2 |
| 87869 | 15.4 | < 0.1 | 19.4 | 10.1 | 240 | 98 | 1.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 515 | 14.1 | 37.0 | 4.6 | 15.2 | 3.1 | 2.9 | 0.4 | 2.3 | 32.9 | 0.1 | 0.2 |
| 87870 | 18.7 | < 0.1 | 66.4 | 10.6 | 233 | 157 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 541 | 20.3 | 42.9 | 5.7 | 17.3 | 3.1 | 2.6 | 0.4 | 2.0 | 14.5 | 0.1 | 0.2 |
| 87871 | 15.2 | < 0.1 | 33.6 | 13.9 | 278 | 72 | 4.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 398 | 18.6 | 42.9 | 5.8 | 19.1 | 3.9 | 3.7 | 0.5 | 3.0 | 29.8 | 0.2 | 0.2 |
| 87872 | 16.8 | < 0.1 | 34.6 | 12.5 | 260 | 65 | 17.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 338 | 15.6 | 35.9 | 4.8 | 16.1 | 3.3 | 3.1 | 0.4 | 2.6 | 28.0 | 0.7 | 0.2 |
| 87873 | 16.1 | < 0.1 | 45.1 | 14.3 | 241 | 79 | 12.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 424 | 19.9 | 39.8 | 6.0 | 19.6 | 3.9 | 3.6 | 0.5 | 2.8 | 38.1 | 0.7 | 0.2 |
| 87874 | 16.1 | < 0.1 | 70.6 | 21.5 | 162 | 48 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 591 | 34.5 | 60.6 | 10.4 | 34.6 | 6.8 | 6.3 | 0.9 | 4.5 | 55.8 | 0.4 | 0.3 |
| 87875 | 18.7 | < 0.1 | 42.7 | 20.0 | 204 | 31 | 4.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 418 | 24.6 | 54.3 | 7.8 | 26.3 | 5.3 | 5.2 | 0.7 | 4.1 | 35.8 | 0.4 | 0.3 |
| 87876 | 19.3 | < 0.1 | 3.1 | 7.5 | 281 | 22 | 3.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 186 | 8.3 | 22.6 | 3.1 | 11.0 | 2.5 | 2.3 | 0.3 | 1.9 | 37.4 | 0.2 | 0.1 |
| 87877 | 16.1 | < 0.1 | 51.7 | 14.0 | 269 | 62 | 14.4 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 474 | 20.9 | 50.2 | 6.1 | 20.0 | 4.0 | 3.8 | 0.5 | 3.1 | 48.9 | 0.8 | 0.2 |
| 87878 | 18.9 | 0.9 | 75.5 | 12.6 | 243 | 123 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 645 | 27.4 | 53.9 | 7.4 | 22.7 | 4.0 | 3.5 | 0.5 | 2.6 | 22.3 | 0.6 | 0.2 |
| 87879 | 17.6 | < 0.1 | 46.3 | 11.5 | 260 | 114 | 4.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 558 | 18.9 | 39.8 | 5.5 | 17.4 | 3.3 | 3.0 | 0.4 | 2.4 | 51.4 | 0.5 | 0.2 |
| 87880 | 19.1 | 1.3 | 67.6 | 10.5 | 233 | 147 | 11.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 573 | 20.1 | 39.5 | 5.4 | 16.5 | 3.0 | 2.7 | 0.4 | 2.1 | 19.9 | 1.1 | 0.2 |
| 87881 | 18.4 | < 0.1 | 53.7 | 11.9 | 253 | 74 | 2.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 437 | 16.7 | 33.2 | 4.4 | 13.9 | 2.6 | 2.4 | 0.4 | 2.2 | 19.1 | 0.3 | 0.2 |
| 87882 | 17.1 | < 0.1 | 63.8 | 11.6 | 240 | 82 | 4.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 565 | 22.8 | 45.7 | 6.2 | 19.3 | 3.6 | 3.2 | 0.4 | 2.4 | 24.5 | 0.7 | 0.2 |
| 87883 | 17.4 | 0.2 | 70.4 | 15.8 | 245 | 96 | 6.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 612 | 29.4 | 58.8 | 8.1 | 25.5 | 4.7 | 4.3 | 0.6 | 3.3 | 43.9 | 0.8 | 0.2 |
| 87884 | 19.8 | 0.2 | 80.9 | 15.8 | 275 | 97 | 3.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 664 | 30.9 | 59.1 | 8.5 | 26.2 | 4.8 | 4.1 | 0.5 | 3.0 | 33.9 | 0.6 | 0.2 |
| 87885 | 16.9 | 0.4 | 78.0 | 14.8 | 236 | 92 | 2.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 660 | 29.2 | 56.4 | 8.0 | 24.8 | 4.4 | 3.9 | 0.5 | 2.9 | 50.0 | 0.6 | 0.2 |
| 87886 | 18.2 | 0.5 | 63.4 | 14.1 | 256 | 84 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 569 | 25.1 | 50.5 | 6.8 | 21.5 | 3.9 | 3.7 | 0.5 | 2.8 | 40.6 | 0.5 | 0.2 |
| 87887 | 18.4 | < 0.1 | 53.4 | 13.7 | 241 | 93 | 11.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 504 | 19.9 | 41.6 | 5.7 | 18.3 | 3.6 | 3.2 | 0.5 | 2.6 | 46.0 | 1.0 | 0.2 |
| 87888 | 17.6 | < 0.1 | 64.7 | 12.9 | 220 | 84 | 3.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 527 | 19.7 | 39.5 | 5.3 | 16.7 | 3.2 | 3.0 | 0.4 | 2.5 | 47.7 | 0.5 | 0.2 |
| 87889 | 16.3 | 29.9 | 56.6 | 14.5 | 234 | 102 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 532 | 26.3 | 53.4 | 7.3 | 23.1 | 4.3 | 3.9 | 0.5 | 2.9 | 42.8 | 0.5 | 0.2 |
| 87890 | 18.9 | 0.4 | 36.9 | 11.9 | 200 | 144 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 565 | 18.6 | 38.9 | 5.4 | 17.0 | 3.2 | 2.8 | 0.4 | 2.4 | 30.3 | 0.2 | 0.2 |
| 87891 | 15.6 | 1.2 | 62.6 | 14.6 | 199 | 134 | 10.4 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 657 | 23.1 | 46.3 | 6.5 | 20.5 | 3.9 | 3.6 | 0.5 | 2.8 | 35.0 | 0.6 | 0.2 |
| 87892 | 16.4 | 0.3 | 57.2 | 15.2 | 238 | 145 | 10.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 551 | 23.6 | 48.2 | 6.7 | 21.2 | 4.1 | 3.8 | 0.5 | 3.0 | 30.4 | 1.0 | 0.2 |
| 87893 | 19.1 | < 0.1 | 63.4 | 10.3 | 225 | 93 | 7.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 527 | 14.2 | 28.1 | 3.8 | 11.9 | 2.2 | 2.1 | 0.3 | 1.9 | 21.7 | 0.8 | 0.2 |
| 87894 | 16.0 | 1.7 | 42.4 | 13.9 | 221 | 60 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 436 | 15.4 | 32.7 | 4.4 | 14.4 | 3.0 | 3.0 | 0.4 | 2.7 | 31.4 | 0.3 | 0.2 |
| 87895 | 17.5 | 1.1 | 64.3 | 17.9 | 244 | 90 | 3.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 593 | 25.7 | 50.5 | 7.4 | 23.6 | 4.5 | 4.1 | 0.6 | 3.4 | 62.4 | 0.6 | 0.3 |
| 87896 | 16.9 | 0.6 | 61.0 | 12.8 | 222 | 24 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 555 | 20.4 | 40.8 | 4.7 | 17.6 | 3.3 | 3.0 | 0.4 | 2.5 | 27.7 | 0.3 | 0.2 |
| 87897 | 17.8 | 0.9 | 67.4 | 16.0 | 223 | 82 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 614 | 27.6 | 55.1 | 7.7 | 24.2 | 4.5 | 4.0 | 0.5 | 3.1 | 34.4 | 0.3 | 0.2 |
| 87898 | 19.6 | < 0.1 | 74.0 | 14.6 | 215 | 95 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 632 | 22.3 | 44.0 | 6.1 | 19.3 | 3.6 | 3.3 | 0.5 | 2.7 | 31.5 | 0.6 | 0.2 |
| 87899 | 15.9 | 0.3 | 15.8 | 12.6 | 234 | 114 | 3.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 505 | 12.5 | 29.4 | 4.3 | 14.7 | 3.2 | 3.2 | 0.5 | 2.8 | 60.0 | 0.6 | 0.2 |
| 87900 | 16.9 | < 0.1 | 56.1 | 17.5 | 250 | 99 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 569 | 27.5 | 54.2 | 8.0 | 25.8 | 5.0 | 4.5 | 0.6 | 3.5 | 53.1 | 0.3 | 0.2 |
| 87901 | 16.9 | 2.4 | 60.1 | 15.1 | 277 | 183 | 4.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 611 | 30.5 | 60.8 | 8.6 | 26.7 | 4.7 | 4.0 | 0.5 | 3.0 | 33.5 | 0.6 | 0.2 |
| 87902 | 14.9 | 1.0 | 69.8 | 14.4 | 258 | 118 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 596 | 28.2 | 59.9 | 7.9 | 25.0 | 4.5 | 3.8 | 0.5 | 2.8 | 29.8 | 0.5 | 0.2 |
| 87903 | 16.0 | < 0.1 | 60.5 | 12.1 | 246 | 71 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 552 | 24.1 | 47.7 | 6.4 | 19.7 | 3.6 | 3.1 | 0.4 | 2.3 | 12.9 | 0.3 | 0.2 |
| 87904 | 16.7 | 2.1 | 62.8 | 15.1 | 269 | 148 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 605 | 27.9 | 55.8 | 7.7 | 24.0 | 4.4 | 3.8 | 0.5 | 2.9 | 35.3 | 0.6 | 0.2 |
| 87905 | 15.0 | 1.0 | 61.1 | 16.2 | 291 | 120 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 631 | 37.4 | 74.2 | 10.1 | 31.5 | 5.2 | 4.3 | 0.6 | 3.2 | 44.2 | 0.5 | 0.2 |
| 87906 | 14.6 | 0.8 | 67.8 | 15.4 | 307 | 135 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 681 | 30.3 | 60.9 | 8.3 | 26.0 | 4.7 | 4.1 | 0.5 | 3.0 | 33.1 | 0.6 | 0.2 |
| 87907 | 17.6 | 1.5 | 80.9 | 17.1 | 317 | 151 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 705 | 33.2 | 66.2 | 9.1 | 28.9 | 5.1 | 4.3 | 0.6 | 3.1 | 36.3 | 0.6</ | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87909 | 14.8 | 5.1 | 57.8 | 14.2 | 270 | 182 | 8.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 605 | 26.5 | 52.5 | 7.1 | 22.6 | 4.2 | 3.8 | 0.5 | 2.8 | 17.2 | 0.8 | 0.2 |
| 87910 | 15.4 | 4.1 | 68.6 | 13.4 | 249 | 184 | 4.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 625 | 24.8 | 48.4 | 6.7 | 20.9 | 3.6 | 3.1 | 0.4 | 2.4 | 44.0 | 0.6 | 0.2 |
| 87911 | 13.1 | 5.6 | 82.2 | 14.2 | 180 | 48 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 611 | 24.8 | 47.9 | 6.7 | 21.2 | 3.7 | 3.4 | 0.4 | 2.6 | 58.8 | 0.6 | 0.2 |
| 87912 | 14.0 | 3.1 | 60.5 | 17.2 | 283 | 85 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 528 | 25.9 | 51.5 | 7.1 | 22.6 | 4.3 | 3.9 | 0.5 | 3.2 | 76.5 | 0.4 | 0.2 |
| 87913 | 14.9 | 5.4 | 60.1 | 13.9 | 279 | 102 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 561 | 20.5 | 40.7 | 5.5 | 17.6 | 3.2 | 3.1 | 0.4 | 2.6 | 40.4 | 0.5 | 0.2 |
| 87914 | 15.2 | 4.1 | 57.6 | 14.0 | 270 | 114 | 3.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 505 | 22.0 | 43.8 | 6.0 | 18.8 | 3.6 | 3.3 | 0.4 | 2.6 | 39.6 | 0.6 | 0.2 |
| 87915 | 15.1 | 14.4 | 74.2 | 20.0 | 285 | 156 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 690 | 41.1 | 61.1 | 11.0 | 34.6 | 5.9 | 5.2 | 0.7 | 3.6 | 109 | 0.8 | 0.3 |
| 87916 | 15.6 | 19.4 | 85.6 | 21.1 | 226 | 252 | 3.4 | 1.0 | < 0.1 | < 1 | < 0.1 | 0.3 | 670 | 48.7 | 82.9 | 13.5 | 42.2 | 7.3 | 6.2 | 0.7 | 3.9 | 160 | 0.7 | 0.3 |
| 87917 | 15.2 | 4.3 | 68.0 | 16.2 | 307 | 148 | 0.9 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 595 | 31.0 | 61.8 | 9.0 | 28.2 | 5.1 | 4.2 | 0.5 | 3.0 | 31.4 | 0.7 | 0.2 |
| 87918 | 12.3 | 7.7 | 33.9 | 15.2 | 227 | 133 | 17.0 | 1.0 | < 0.1 | < 1 | 0.2 | 0.2 | 554 | 21.2 | 33.9 | 6.2 | 19.8 | 3.7 | 3.5 | 0.5 | 3.0 | 137 | 0.5 | 0.2 |
| 87919 | 15.5 | 3.3 | 53.9 | 16.4 | 296 | 154 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 520 | 26.8 | 54.0 | 7.3 | 23.0 | 4.3 | 4.0 | 0.5 | 3.2 | 61.0 | 0.4 | 0.2 |
| 87920 | 16.2 | 3.7 | 51.9 | 16.1 | 265 | 127 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 478 | 23.3 | 48.2 | 6.5 | 21.0 | 4.1 | 3.6 | 0.5 | 3.0 | 38.2 | 0.4 | 0.2 |
| 87921 | 15.7 | 0.3 | 52.0 | 19.4 | 251 | 67 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 488 | 28.5 | 55.7 | 7.6 | 24.2 | 4.6 | 4.4 | 0.6 | 3.7 | 80.8 | 0.4 | 0.3 |
| 87922 | 14.6 | < 0.1 | 49.5 | 20.0 | 212 | 90 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 530 | 31.1 | 59.7 | 8.4 | 27.2 | 5.2 | 5.0 | 0.7 | 3.8 | 109 | 0.7 | 0.3 |
| 87923 | 16.7 | 2.6 | 53.5 | 18.9 | 283 | 168 | 6.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 509 | 25.7 | 51.5 | 7.2 | 22.9 | 4.5 | 4.2 | 0.6 | 3.5 | 24.6 | 0.9 | 0.3 |
| 87924 | 16.1 | 2.3 | 59.6 | 22.0 | 296 | 180 | 16.0 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 572 | 31.7 | 62.4 | 8.7 | 27.9 | 5.4 | 5.3 | 0.7 | 4.3 | 57.1 | 0.9 | 0.3 |
| 87925 | 15.3 | 2.5 | 41.1 | 20.7 | 288 | 161 | 18.0 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 415 | 26.9 | 56.0 | 7.4 | 24.0 | 4.7 | 4.7 | 0.7 | 4.0 | 49.1 | 0.9 | 0.3 |
| 87926 | 11.0 | 7.1 | 34.8 | 17.4 | 208 | 79 | 1.0 | 0.9 | < 0.1 | < 1 | < 0.1 | 0.2 | 511 | 24.2 | 44.2 | 6.5 | 20.8 | 3.9 | 3.9 | 0.5 | 3.3 | 128 | 0.6 | 0.3 |
| 87927 | 15.5 | 2.0 | 46.0 | 19.8 | 270 | 110 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 505 | 28.2 | 55.9 | 7.6 | 24.5 | 4.7 | 4.5 | 0.6 | 3.7 | 51.9 | 0.6 | 0.3 |
| 87928 | 18.1 | < 0.1 | 13.2 | 21.6 | 176 | 84 | 22.8 | 0.9 | < 0.1 | < 1 | 0.3 | 0.1 | 178 | 26.6 | 51.9 | 6.7 | 20.9 | 4.0 | 4.3 | 0.7 | 4.2 | 64.4 | 0.8 | 0.3 |
| 87929 | 16.5 | 1.8 | 47.4 | 19.8 | 281 | 147 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 534 | 27.2 | 55.9 | 7.5 | 24.7 | 4.7 | 4.5 | 0.6 | 3.6 | 39.9 | 0.5 | 0.3 |
| 87930 | 15.3 | 2.9 | 48.7 | 17.8 | 252 | 122 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 502 | 25.4 | 49.9 | 6.7 | 21.3 | 4.0 | 3.9 | 0.6 | 3.4 | 37.4 | 0.4 | 0.3 |
| 87931 | 19.1 | < 0.1 | 30.6 | 22.9 | 198 | 57 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 276 | 26.2 | 53.8 | 7.2 | 23.7 | 4.8 | 5.1 | 0.7 | 4.4 | 42.1 | 0.7 | 0.3 |
| 87932 | 16.9 | 10.5 | 59.4 | 25.0 | 316 | 124 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 534 | 30.0 | 70.3 | 8.2 | 26.1 | 5.0 | 5.0 | 0.7 | 4.5 | 58.0 | 0.5 | 0.4 |
| 87933 | 17.1 | 2.1 | 66.4 | 22.5 | 257 | 127 | 2.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 472 | 27.1 | 53.6 | 7.1 | 22.4 | 4.2 | 4.4 | 0.7 | 4.1 | 37.1 | 0.6 | 0.3 |
| 87934 | 17.4 | 1.9 | 47.4 | 19.0 | 337 | 150 | 9.2 | 1.1 | < 0.1 | 1 | < 0.1 | 0.3 | 412 | 21.4 | 43.2 | 5.9 | 19.4 | 4.0 | 4.1 | 0.6 | 3.7 | 55.1 | 0.8 | 0.3 |
| 87935 | 17.3 | 2.0 | 66.9 | 13.9 | 265 | 134 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 605 | 24.1 | 48.6 | 6.5 | 20.9 | 3.9 | 3.5 | 0.4 | 2.6 | 17.6 | 0.5 | 0.2 |
| 87936 | 18.1 | 2.4 | 90.9 | 10.9 | 211 | 152 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 669 | 27.2 | 53.0 | 7.0 | 21.4 | 3.7 | 3.1 | 0.4 | 2.2 | 8.3 | 0.6 | 0.2 |
| 87937 | 14.7 | 1.8 | 53.5 | 17.8 | 197 | 19 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 435 | 38.6 | 65.4 | 8.0 | 23.7 | 4.1 | 4.0 | 0.6 | 3.3 | 319 | 0.2 | 0.2 |
| 87938 | 16.3 | 4.0 | 39.3 | 37.1 | 286 | 107 | 1.4 | 0.2 | < 0.1 | 1 | < 0.1 | 0.2 | 440 | 67.5 | 115 | 15.5 | 48.7 | 9.2 | 9.3 | 1.2 | 7.0 | 50.3 | 0.4 | 0.5 |
| 87939 | 15.9 | < 0.1 | 79.0 | 30.8 | 112 | 32 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 455 | 53.7 | 103 | 12.7 | 39.2 | 6.4 | 6.0 | 0.8 | 5.0 | 53.5 | 0.2 | 0.5 |
| 87940 | 13.9 | 0.7 | 60.9 | 20.5 | 215 | 93 | 0.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 657 | 37.9 | 74.2 | 10.4 | 32.6 | 5.6 | 5.4 | 0.7 | 4.0 | 114 | 0.3 | 0.3 |
| 87941 | 17.1 | 0.1 | 62.0 | 15.3 | 292 | 122 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 657 | 27.1 | 55.5 | 7.4 | 23.6 | 4.2 | 3.9 | 0.5 | 2.8 | 24.5 | 0.3 | 0.2 |
| 87942 | 17.7 | 0.8 | 69.0 | 10.5 | 249 | 155 | 6.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 650 | 24.4 | 47.7 | 6.3 | 19.4 | 3.3 | 2.8 | 0.4 | 2.0 | 14.1 | 0.8 | 0.2 |
| 87943 | 14.2 | 0.6 | 52.3 | 14.0 | 322 | 186 | 1.2 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 665 | 25.3 | 53.2 | 7.0 | 22.3 | 4.1 | 3.8 | 0.5 | 2.7 | 16.7 | 0.4 | 0.2 |
| 87944 | 17.3 | 1.6 | 75.0 | 15.3 | 281 | 106 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 723 | 32.4 | 63.7 | 8.7 | 27.6 | 4.9 | 4.4 | 0.5 | 2.9 | 34.7 | 0.2 | 0.2 |
| 87945 | 15.8 | 1.7 | 75.0 | 11.6 | 269 | 120 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 765 | 31.2 | 65.8 | 7.9 | 24.1 | 4.1 | 3.6 | 0.4 | 2.4 | 20.1 | 0.5 | 0.2 |
| 87946 | 13.4 | 1.3 | 70.8 | 18.1 | 186 | 118 | 6.5 | 1.3 | < 0.1 | < 1 | 0.1 | 0.3 | 787 | 34.1 | 54.1 | 9.3 | 29.7 | 5.1 | 4.6 | 0.6 | 3.2 | 59.4 | 0.2 | 0.2 |
| 87947 | 17.0 | 2.0 | 30.9 | 8.3 | 283 | 217 | 7.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 652 | 11.4 | 26.9 | 3.9 | 12.7 | 2.4 | 2.2 | 0.3 | 1.6 | 13.5 | < 0.1 | 0.1 |
| 87948 | 15.5 | 1.0 | 67.6 | 10.4 | 250 | 177 | 2.9 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 618 | 26.2 | 52.9 | 7.0 | 21.6 | 3.7 | 3.1 | 0.4 | 2.1 | 13.9 | 0.1 | 0.2 |
| 87949 | 15.9 | 1.2 | 69.7 | 13.0 | 252 | 72 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 684 | 30.2 | 58.8 | 8.0 | 24.9 | 4.4 | 3.8 | 0.5 | 2.5 | 25.6 | 0.3 | 0.2 |
| 87950 | 15.5 | 0.8 | 68.0 | 14.8 | 280 | 107 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 689 | 35.2 | 69.0 | 9.5 | 29.7 | 5.2 | 4.5 | 0.6 | 2.9 | 24.0 | 0.4 | 0.2 |
| 87951 | 16.3 | 1.4 | 71.3 | 11.0 | 262 | 119 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 662 | 23.8 | 46.4 | 6.3 | 19.6 | 3.5 | 3.1 | 0.4 | 2.2 | 8.4 | 0.4 | 0.2 |
| 87952 | 17.1 | 1.7 | 77.0 | 13.7 | 315 | 184 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 745 | 32.8 | 65.4 | 8.4 | 25.8 | 4.5 | 4.0 | 0.5 | 2.6 | 76.0 | 0.5 | 0.2 |
| 87953 | 12.9 | < 0.1 | 56.2 | 19.0 | 255 | 132 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 619 | 29.8 | 57.7 | 8.1 | 26.0 | 4.8 | 4.6 | 0.7 | 3.8 | 32.6 | 0.3 | 0.3 |
| 87954 | 16.5 | < 0.1 | 52.1 | 23.3 | 298 | 102 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 910 | 47.0 | 79.3 | 11.6 | 35.1 | 6.0 | 5.5 | 0.7 | 4.1 | 188 | 0.3 | 0.4 |
| 87955 | 15.2 | 1.3 | 50.2 | 13.7 | 285 | 100 | 1.1 | < 0.1 | < 0.1 | 2 | 0.1 | 0.1 | 605 | 25.6 | 52.0 | 6.9 | 21.7 | 3.9 | 3.6 | 0.5 | 2.7 | 443 | 0.3 | 0.2 |
| 87956 | 22.2 | < 0.1 | 30.5 | 24.5 | 363 | 72 | 2.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 328 | 42.2 | 81.2 | 11.1 | 35.2 | 6.5 | 6.3 | 0.8 | 4.8 | 22.9 | 0.3 | 0.3 |
| 87957 | 13.3 | 4.0 | 36.0 | 14.2 | 273 | 145 | 13.6 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 441 | 26.5 | 57.9 | 7.1 | 22.5 | 4.0 | 3.8 | 0.5 | 2.8 | 24.6 | 0.2 | 0.2 |
| 87958 | 15.2 | 4.9 | 42.5 | 20.7 | 323 | 189 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 567 | 45.2 | 91.5 | 11.9 | 36.8 | 6.4 | 5.9 | 0.7 | 4.2 | 42.2 | 0.2 | 0.3 |
| 87959 | 11.0 | 4.8 | 13.1 | 19.7 | 395 | 30 | 7.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 367 | 40.5 | 78.4 | 10.7 | 33.3 | 5.7 | 5.4 | 0.6 | 3.8 | 74.2 | 0.3 | 0.3 |
| 87960 | 7.8 | 1.1 | 24.4 | 16.4 | 219 | 28 | 0.4 | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87961 | 14.9 | 4.2 | 53.6 | 23.1 | 272 | 110 | 1.3 | 1.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 594 | 60.7 | 115 | 16.1 | 50.3 | 8.5 | 7.6 | 0.9 | 4.8 | 52.2 | 0.4 | 0.3 |
| 87962 | 16.0 | < 0.1 | 76.1 | 15.1 | 260 | 115 | 1.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 652 | 33.5 | 63.6 | 9.0 | 27.7 | 4.7 | 4.0 | 0.5 | 2.7 | 63.7 | 0.4 | 0.2 |
| 87963 | 15.6 | 0.4 | 62.5 | 15.1 | 304 | 159 | 8.6 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.4 | 601 | 29.2 | 58.9 | 8.1 | 26.2 | 4.9 | 4.6 | 0.6 | 3.2 | 24.0 | 0.9 | 0.2 |
| 87964 | 15.2 | < 0.1 | 62.3 | 14.1 | 260 | 100 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 568 | 28.3 | 56.2 | 7.5 | 23.8 | 4.4 | 4.2 | 0.5 | 2.9 | 38.4 | 0.4 | 0.2 |
| 87965 | 17.0 | 0.6 | 34.7 | 22.1 | 338 | 83 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 461 | 29.1 | 58.2 | 8.3 | 27.5 | 5.4 | 5.4 | 0.7 | 4.3 | 55.2 | 0.5 | 0.3 |
| 87966 | 16.3 | < 0.1 | 34.7 | 8.4 | 230 | 179 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 608 | 15.1 | 31.5 | 4.3 | 13.7 | 2.6 | 2.3 | 0.3 | 1.7 | 15.7 | 0.2 | 0.1 |
| 87967 | 14.9 | 1.2 | 60.6 | 14.8 | 274 | 185 | 4.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 685 | 34.2 | 67.8 | 9.1 | 28.6 | 5.0 | 4.6 | 0.5 | 3.0 | 22.3 | 0.6 | 0.2 |
| 87968 | 17.8 | 1.7 | 73.0 | 10.8 | 268 | 159 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 680 | 25.9 | 50.4 | 6.6 | 20.7 | 3.5 | 3.0 | 0.4 | 2.1 | 18.9 | 0.3 | 0.2 |
| 87969 | 15.0 | 0.6 | 73.0 | 16.7 | 263 | 56 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 706 | 37.2 | 72.5 | 10.3 | 32.5 | 5.7 | 5.1 | 0.6 | 3.4 | 32.9 | 0.6 | 0.2 |
| 87970 | 15.9 | 1.3 | 88.2 | 14.0 | 254 | 131 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 772 | 34.5 | 67.2 | 9.0 | 27.7 | 4.8 | 4.2 | 0.5 | 2.7 | 23.8 | 0.6 | 0.2 |
| 87971 | 16.8 | 0.7 | 51.5 | 13.5 | 225 | 139 | 8.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 530 | 27.0 | 57.6 | 7.7 | 24.8 | 4.5 | 4.0 | 0.5 | 2.8 | 32.3 | 0.8 | 0.2 |
| 87972 | 16.8 | 1.5 | 68.4 | 11.3 | 253 | 60 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 633 | 24.9 | 49.2 | 6.6 | 20.3 | 3.6 | 3.2 | 0.4 | 2.2 | 12.4 | 0.3 | 0.2 |
| 87973 | 18.6 | 0.2 | 53.6 | 24.0 | 160 | 110 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 549 | 36.6 | 73.8 | 9.6 | 31.2 | 5.9 | 5.7 | 0.8 | 4.5 | 2.6 | 0.3 | 0.4 |
| 87974 | 19.1 | 0.3 | 62.0 | 11.8 | 239 | 137 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 601 | 23.8 | 48.2 | 6.6 | 21.0 | 3.7 | 3.0 | 0.4 | 2.1 | 3.8 | 0.3 | 0.2 |
| 87975 | 15.2 | 0.4 | 68.5 | 13.8 | 226 | 87 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 609 | 29.7 | 59.0 | 7.9 | 25.1 | 4.5 | 4.1 | 0.5 | 2.9 | 28.2 | 0.4 | 0.2 |
| 87976 | 16.6 | 9.3 | 27.1 | 14.5 | 202 | 204 | 20.0 | 0.5 | < 0.1 | 1 | 0.1 | 0.2 | 510 | 23.3 | 48.3 | 6.9 | 22.4 | 4.2 | 3.8 | 0.5 | 3.0 | 87.3 | 0.5 | 0.2 |
| 87977 | 14.6 | < 0.1 | 25.7 | 19.6 | 145 | 48 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 262 | 30.9 | 63.0 | 8.9 | 29.3 | 5.4 | 5.3 | 0.7 | 3.9 | 101 | 0.4 | 0.3 |
| 87978 | 17.6 | 2.8 | 53.7 | 14.9 | 211 | 38 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 455 | 30.5 | 60.7 | 6.6 | 23.6 | 4.2 | 3.5 | 0.5 | 2.8 | 51.4 | 0.3 | 0.2 |
| 87979 | 17.1 | 0.7 | 70.7 | 14.7 | 196 | 67 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 513 | 29.8 | 59.9 | 8.1 | 25.7 | 4.7 | 4.1 | 0.5 | 2.9 | 33.8 | 0.4 | 0.2 |
| 87980 | 17.0 | 0.2 | 68.1 | 18.3 | 257 | 108 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 646 | 39.3 | 74.8 | 10.5 | 33.0 | 5.7 | 5.0 | 0.6 | 3.5 | 48.3 | 0.5 | 0.2 |
| 87981 | 14.3 | 0.4 | 57.0 | 15.2 | 290 | 98 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 625 | 33.5 | 67.2 | 8.8 | 27.7 | 4.9 | 4.5 | 0.5 | 3.2 | 35.9 | 0.4 | 0.2 |
| 87982 | 19.4 | 0.9 | 63.8 | 12.4 | 272 | 142 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 614 | 28.1 | 55.6 | 7.5 | 23.8 | 4.1 | 3.5 | 0.4 | 2.4 | 9.5 | 0.5 | 0.2 |
| 87983 | 17.3 | 0.2 | 62.3 | 12.8 | 278 | 113 | 3.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 593 | 26.3 | 52.2 | 7.1 | 22.2 | 4.0 | 3.6 | 0.5 | 2.6 | 12.6 | 0.5 | 0.2 |
| 87984 | 15.1 | 0.3 | 52.0 | 15.6 | 249 | 125 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 569 | 26.5 | 55.7 | 7.3 | 23.7 | 4.4 | 4.2 | 0.5 | 3.2 | 142 | 0.6 | 0.2 |
| 87985 | 17.9 | 1.3 | 68.3 | 14.0 | 273 | 150 | 5.7 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 591 | 28.8 | 56.2 | 7.5 | 23.5 | 4.1 | 3.7 | 0.5 | 2.7 | 24.2 | 0.8 | 0.2 |
| 87986 | 14.9 | 1.4 | 58.3 | 12.1 | 279 | 111 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 614 | 22.0 | 43.7 | 6.0 | 18.7 | 3.4 | 3.0 | 0.4 | 2.4 | 5.8 | 0.4 | 0.2 |
| 87987 | 17.2 | 2.8 | 14.6 | 12.4 | 290 | 146 | 3.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 402 | 14.1 | 29.3 | 4.2 | 13.8 | 2.8 | 2.9 | 0.4 | 2.6 | 12.6 | 0.5 | 0.2 |
| 87988 | 13.9 | 15.0 | 41.0 | 14.8 | 332 | 96 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 433 | 27.3 | 53.5 | 7.2 | 23.4 | 4.2 | 4.0 | 0.5 | 3.0 | 55.1 | 0.4 | 0.2 |
| 87989 | 12.5 | 5.0 | 18.7 | 13.5 | 177 | 85 | 10.5 | 0.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 199 | 15.7 | 33.3 | 4.9 | 16.7 | 3.4 | 3.4 | 0.5 | 2.8 | 36.5 | 0.7 | 0.2 |
| 87990 | 15.9 | 6.3 | 62.8 | 13.9 | 273 | 120 | 3.1 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 519 | 20.6 | 40.8 | 5.6 | 17.9 | 3.5 | 3.3 | 0.5 | 2.6 | 20.8 | 0.6 | 0.2 |
| 87991 | 19.2 | < 0.1 | 71.7 | 21.6 | 252 | 99 | 7.5 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 600 | 35.8 | 72.7 | 10.1 | 32.9 | 6.1 | 5.5 | 0.7 | 4.2 | 42.3 | 0.7 | 0.3 |
| 87992 | 17.0 | < 0.1 | 84.9 | 15.0 | 208 | 152 | 10.3 | 0.4 | < 0.1 | 1 | < 0.1 | 0.2 | 685 | 33.4 | 63.8 | 8.6 | 27.0 | 4.7 | 4.2 | 0.5 | 3.0 | 20.8 | 0.9 | 0.2 |
| 87993 | 17.5 | 0.8 | 80.9 | 15.0 | 246 | 87 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 671 | 34.7 | 70.1 | 9.1 | 28.9 | 5.1 | 4.6 | 0.6 | 3.1 | 23.8 | 0.5 | 0.2 |
| 87994 | 16.6 | 1400 | 62.6 | 8.6 | 222 | 90 | 3.2 | 128 | < 0.1 | < 1 | 6.8 | 1.7 | 168 | 14.6 | 28.0 | 4.0 | 13.3 | 2.3 | 2.1 | 0.3 | 1.4 | 163 | 0.4 | 0.1 |
| 87995 | 15.4 | 2.5 | 72.7 | 16.4 | 251 | 100 | 1.7 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 651 | 37.0 | 71.4 | 9.8 | 31.1 | 5.5 | 5.0 | 0.6 | 3.4 | 28.3 | 0.5 | 0.2 |
| 87996 | 17.4 | 1.1 | 19.0 | 9.4 | 221 | 113 | 2.1 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 471 | 12.9 | 28.8 | 4.0 | 13.2 | 2.6 | 2.5 | 0.3 | 2.1 | 22.5 | 0.3 | 0.2 |
| 87997 | 17.0 | 0.7 | 73.4 | 13.2 | 267 | 153 | 9.9 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 678 | 32.3 | 64.7 | 8.5 | 26.4 | 4.6 | 4.1 | 0.5 | 2.7 | 17.8 | 0.8 | 0.2 |
| 87998 | 19.2 | < 0.1 | 89.6 | 17.2 | 258 | 127 | 3.6 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 701 | 40.9 | 79.7 | 10.7 | 33.7 | 5.8 | 5.0 | 0.6 | 3.4 | 27.5 | 0.7 | 0.2 |
| 87999 | 15.5 | 1.1 | 83.4 | 17.0 | 190 | 57 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 709 | 38.3 | 65.5 | 10.0 | 31.3 | 5.5 | 4.9 | 0.6 | 3.3 | 32.9 | 0.4 | 0.2 |
| 88000 | 17.1 | 0.8 | 74.9 | 17.5 | 262 | 127 | 4.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 679 | 45.2 | 85.0 | 11.7 | 36.7 | 6.4 | 5.6 | 0.7 | 3.7 | 32.1 | 0.7 | 0.2 |
| 87701 | 19.8 | 2.6 | 81.3 | 16.5 | 246 | 155 | 13.9 | 0.3 | < 0.1 | 6 | < 0.1 | 0.3 | 701 | 47.2 | 88.4 | 11.8 | 36.7 | 6.1 | 5.3 | 0.6 | 3.3 | 37.5 | 0.9 | 0.2 |
| 87702 | 17.2 | 0.8 | 80.1 | 15.0 | 244 | 140 | 3.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 711 | 43.4 | 82.1 | 10.9 | 33.2 | 5.6 | 4.9 | 0.6 | 3.1 | 18.8 | 0.7 | 0.2 |
| 87703 | 17.3 | < 0.1 | 74.4 | 14.8 | 232 | 143 | 13.5 | 0.4 | < 0.1 | 1 | < 0.1 | 0.4 | 666 | 39.1 | 86.8 | 10.0 | 31.5 | 5.5 | 5.0 | 0.6 | 3.3 | 28.7 | 0.8 | 0.2 |
| 87704 | 18.6 | < 0.1 | 78.5 | 21.3 | 234 | 151 | 3.5 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 692 | 58.6 | 108 | 15.0 | 46.7 | 7.9 | 6.7 | 0.8 | 4.4 | 36.6 | 0.6 | 0.3 |
| 87705 | 16.5 | 0.1 | 38.3 | 12.3 | 250 | 132 | 4.4 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.3 | 704 | 27.5 | 56.7 | 7.6 | 24.1 | 4.3 | 3.9 | 0.5 | 2.8 | 35.8 | 0.4 | 0.2 |
| 87706 | 18.5 | 0.2 | 68.6 | 16.4 | 221 | 148 | 5.0 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 767 | 43.0 | 81.7 | 11.2 | 35.1 | 6.0 | 5.2 | 0.6 | 3.4 | 29.9 | 0.5 | 0.2 |
| 87707 | 16.7 | 0.7 | 87.6 | 17.3 | 217 | 78 | 0.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 742 | 45.3 | 85.7 | 11.8 | 37.1 | 6.2 | 5.3 | 0.6 | 3.4 | 33.8 | 0.6 | 0.2 |
| 87708 | 16.4 | 1.0 | 87.9 | 15.5 | 256 | 66 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 765 | 45.5 | 89.5 | 12.0 | 36.9 | 6.2 | 5.4 | 0.6 | 3.4 | 24.9 | 0.4 | 0.2 |
| 87709 | 17.1 | 3.8 | 75.8 | 15.4 | 184 | 128 | 3.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 602 | 34.2 | 86.3 | 9.5 | 30.6 | 5.6 | 5.1 | 0.6 | 3.4 | 21.5 | 0.7 | 0.2 |
| 87710 | 18.2 | 1.0 | 68.2 | 12.4 | 233 | 111 | 1.5 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 596 | 29.4 | 58.7 | 7.8 | 24.3 | 4.2 | 3.7 | 0.5 | 2.6 | 11.2 | 0.5 | 0.2 |
| 87711 | 22.7 | < 0.1 | 52.1 | 17.0 | 271 | 130 | 11.0 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 549 | 39.0 | 77.1 | 9.9 | 30.7 | 5.1 | 4.6 | 0.6 | 3.3 | 19.0 | 0.5 | 0.2 |
| 87712 | 17.5 | < 0.1 | 36.2 | 16.8 | 307 | 54 | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87713 | 21.2 | < 0.1 | 44.4 | 14.0 | 126 | 44 | 2.3 | 0.1 | 0.1 | < 1 | < 0.1 | 0.1 | 283 | 22.2 | 47.7 | 7.0 | 24.7 | 5.3 | 5.2 | 0.7 | 3.4 | 6.0 | 0.4 | 0.2 |
| 87714 | 17.1 | < 0.1 | 41.0 | 19.7 | 262 | 58 | 6.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 457 | 47.0 | 89.5 | 12.0 | 38.1 | 6.8 | 6.2 | 0.8 | 4.5 | 59.1 | 0.4 | 0.3 |
| 87715 | 17.5 | < 0.1 | 8.5 | 10.9 | 210 | 97 | 8.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 412 | 14.9 | 43.1 | 5.2 | 18.4 | 3.7 | 3.5 | 0.5 | 2.7 | 52.7 | 0.4 | 0.2 |
| 87716 | 17.1 | < 0.1 | 58.0 | 21.8 | 239 | 106 | 15.6 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 667 | 46.1 | 90.6 | 12.6 | 41.0 | 7.3 | 6.7 | 0.8 | 4.6 | 60.8 | 0.6 | 0.3 |
| 87717 | 17.0 | < 0.1 | 44.8 | 16.0 | 204 | 106 | 13.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 568 | 41.5 | 92.9 | 10.9 | 34.2 | 5.7 | 5.2 | 0.6 | 3.5 | 37.5 | 0.6 | 0.2 |
| 87718 | 19.5 | < 0.1 | 38.3 | 14.1 | 228 | 80 | 8.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 428 | 24.7 | 52.6 | 6.7 | 22.0 | 4.1 | 3.8 | 0.5 | 2.9 | 26.2 | 0.5 | 0.2 |
| 87719 | 12.2 | < 0.1 | 41.2 | 17.9 | 171 | 78 | 2.9 | 1.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 546 | 33.8 | 66.0 | 9.1 | 29.5 | 5.3 | 4.9 | 0.6 | 3.6 | 38.3 | 0.4 | 0.2 |
| 87720 | 15.3 | < 0.1 | 22.8 | 18.9 | 268 | 52 | 3.9 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 331 | 26.8 | 54.1 | 7.7 | 26.1 | 5.1 | 5.1 | 0.7 | 4.0 | 36.2 | 0.4 | 0.3 |
| 87721 | 18.4 | 0.5 | 65.7 | 23.8 | 252 | 121 | 12.5 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.3 | 691 | 53.2 | 102 | 14.7 | 47.9 | 8.4 | 7.8 | 0.9 | 5.1 | 66.7 | 0.7 | 0.3 |
| 87722 | 17.2 | < 0.1 | 55.8 | 23.8 | 245 | 77 | 1.4 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 571 | 53.9 | 102 | 14.8 | 48.4 | 8.6 | 7.5 | 0.9 | 5.1 | 56.5 | 0.5 | 0.3 |
| 87723 | 16.2 | < 0.1 | 56.7 | 25.3 | 264 | 102 | 12.5 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 575 | 65.9 | 114 | 17.7 | 57.2 | 10.0 | 9.0 | 1.1 | 5.8 | 66.8 | 0.6 | 0.3 |
| 87724 | 17.0 | < 0.1 | 54.4 | 24.2 | 260 | 107 | 12.2 | 2.5 | < 0.1 | 1 | < 0.1 | 0.3 | 692 | 80.8 | 140 | 18.7 | 58.1 | 9.7 | 8.6 | 1.0 | 5.4 | 41.1 | 0.6 | 0.3 |
| 87725 | 19.5 | < 0.1 | 3.6 | 8.9 | 271 | 122 | 40.9 | 1.0 | < 0.1 | 2 | < 0.1 | 0.4 | 316 | 8.8 | 22.2 | 2.8 | 9.3 | 2.0 | 2.2 | 0.4 | 2.3 | 16.8 | 0.4 | 0.2 |
| 87726 | 21.5 | < 0.1 | 34.7 | 22.1 | 314 | 94 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 545 | 50.1 | 98.8 | 14.0 | 45.2 | 8.0 | 7.2 | 0.9 | 5.1 | 45.4 | 0.4 | 0.3 |
| 87727 | 18.6 | < 0.1 | 50.8 | 25.5 | 269 | 49 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 595 | 66.3 | 130 | 17.8 | 58.2 | 10.3 | 9.4 | 1.1 | 5.9 | 78.5 | 0.4 | 0.3 |
| 87728 | 18.0 | < 0.1 | 62.4 | 23.1 | 219 | 77 | 0.7 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 707 | 59.9 | 109 | 16.4 | 51.7 | 8.8 | 7.6 | 0.9 | 5.0 | 64.9 | 0.4 | 0.3 |
| 87729 | 19.2 | < 0.1 | 65.7 | 16.7 | 240 | 87 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 503 | 34.9 | 68.0 | 8.8 | 28.0 | 4.8 | 4.5 | 0.6 | 3.6 | 11.8 | 0.4 | 0.3 |
| 87730 | 20.3 | < 0.1 | 14.5 | 8.9 | 330 | 117 | 5.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 188 | 21.6 | 41.3 | 5.5 | 17.6 | 2.9 | 2.5 | 0.3 | 1.8 | 14.0 | 0.4 | 0.1 |
| 87731 | 20.2 | < 0.1 | 75.5 | 28.2 | 319 | 158 | 12.4 | 1.1 | < 0.1 | 2 | < 0.1 | 0.4 | 827 | 83.9 | 154 | 20.9 | 64.5 | 10.4 | 9.4 | 1.1 | 6.1 | 41.3 | 0.7 | 0.4 |
| 87732 | 11.3 | < 0.1 | 64.2 | 115 | 402 | 243 | 158 | 2.9 | 0.1 | 2 | < 0.1 | 0.8 | 2220 | 455 | 608 | 110 | 343 | 55.4 | 50.9 | 5.9 | 30.5 | 97.6 | 1.3 | 1.5 |
| 87733 | 17.8 | < 0.1 | 25.8 | 18.6 | 210 | 203 | 35.7 | 0.8 | < 0.1 | 1 | < 0.1 | 0.4 | 617 | 44.4 | 90.2 | 13.4 | 43.4 | 7.6 | 6.3 | 0.8 | 4.1 | 35.2 | 0.5 | 0.3 |
| 87734 | 17.6 | < 0.1 | 78.3 | 14.5 | 208 | 140 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 646 | 35.3 | 68.7 | 9.3 | 28.5 | 4.8 | 4.0 | 0.5 | 2.8 | 21.8 | 0.3 | 0.2 |
| 87735 | 17.0 | < 0.1 | 73.6 | 16.2 | 231 | 55 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 633 | 39.4 | 74.9 | 10.3 | 32.6 | 5.6 | 4.8 | 0.6 | 3.3 | 21.0 | 0.2 | 0.2 |
| 87736 | 17.6 | < 0.1 | 83.4 | 40.6 | 265 | 114 | 2.3 | 0.5 | < 0.1 | 1 | < 0.1 | 0.2 | 734 | 141 | 228 | 36.9 | 116 | 18.7 | 15.1 | 1.7 | 8.8 | 63.8 | 0.7 | 0.5 |
| 87737 | 17.2 | < 0.1 | 57.6 | 21.4 | 192 | 113 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 523 | 73.4 | 145 | 18.8 | 58.3 | 9.3 | 7.8 | 0.9 | 4.8 | 56.1 | 0.5 | 0.3 |
| 87738 | 17.2 | < 0.1 | 73.9 | 21.4 | 257 | 162 | 8.6 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 630 | 58.7 | 103 | 15.2 | 47.8 | 8.0 | 6.9 | 0.8 | 4.4 | 49.7 | 0.7 | 0.3 |
| 87739 | 18.8 | < 0.1 | 76.6 | 26.3 | 249 | 158 | 6.6 | 0.6 | < 0.1 | 1 | 0.2 | 0.3 | 671 | 78.0 | 139 | 20.2 | 62.5 | 10.4 | 8.7 | 1.0 | 5.3 | 51.7 | 0.7 | 0.3 |
| 87740 | 16.4 | < 0.1 | 35.0 | 39.1 | 482 | 90 | 1.8 | 1.0 | 0.1 | 1 | < 0.1 | 0.3 | 1350 | 111 | 211 | 29.0 | 90.4 | 15.5 | 14.0 | 1.7 | 9.2 | 96.1 | 0.6 | 0.5 |
| 87741 | 17.1 | < 0.1 | 40.0 | 29.3 | 191 | 124 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 770 | 96.1 | 181 | 26.4 | 83.3 | 14.0 | 11.8 | 1.4 | 6.9 | 55.2 | 0.5 | 0.4 |
| 87742 | 17.5 | < 0.1 | 53.9 | 36.7 | 234 | 124 | 5.8 | 1.2 | < 0.1 | 1 | < 0.1 | 0.2 | 564 | 104 | 199 | 29.9 | 95.4 | 15.7 | 12.8 | 1.4 | 7.8 | 102 | 0.9 | 0.5 |
| 87743 | 15.8 | < 0.1 | 44.3 | 16.4 | 196 | 116 | 4.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 476 | 40.9 | 80.8 | 11.3 | 37.0 | 6.3 | 5.5 | 0.7 | 3.6 | 135 | 0.5 | 0.3 |
| 87744 | 19.3 | < 0.1 | 14.8 | 5.4 | 109 | 160 | 5.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 481 | 14.7 | 35.8 | 5.5 | 18.3 | 2.8 | 2.3 | 0.3 | 1.4 | 1.1 | 0.3 | 0.1 |
| 87745 | 15.5 | < 0.1 | 58.3 | 11.9 | 257 | 108 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 645 | 24.6 | 50.8 | 6.8 | 21.7 | 3.9 | 3.4 | 0.4 | 2.3 | 8.7 | 0.2 | 0.2 |
| 87746 | 17.6 | < 0.1 | 65.9 | 9.9 | 260 | 29 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 657 | 24.3 | 49.1 | 6.6 | 20.6 | 3.4 | 2.8 | 0.3 | 1.8 | 4.2 | 0.3 | 0.2 |
| 87747 | 16.4 | < 0.1 | 72.0 | 13.1 | 253 | 49 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 681 | 28.3 | 54.7 | 7.4 | 23.5 | 4.0 | 3.4 | 0.4 | 2.5 | 10.6 | 0.3 | 0.2 |
| 87748 | 15.1 | < 0.1 | 61.1 | 18.0 | 261 | 111 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 683 | 35.4 | 69.0 | 9.9 | 31.5 | 5.8 | 5.1 | 0.6 | 3.5 | 20.4 | 0.4 | 0.3 |
| 87749 | 18.7 | < 0.1 | 50.9 | 19.6 | 134 | 93 | 0.3 | < 0.1 | < 0.1 | 2 | < 0.1 | 0.2 | 428 | 34.0 | 70.9 | 9.5 | 30.9 | 5.5 | 4.6 | 0.6 | 3.5 | 15.9 | 0.3 | 0.3 |
| 87750 | 16.7 | < 0.1 | 69.5 | 10.8 | 247 | 100 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 715 | 24.4 | 48.4 | 6.4 | 19.4 | 3.3 | 2.7 | 0.3 | 2.0 | 9.7 | 0.3 | 0.2 |
| 87751 | 14.7 | < 0.1 | 69.5 | 16.1 | 243 | 131 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 635 | 39.3 | 71.8 | 10.3 | 32.1 | 5.5 | 4.7 | 0.6 | 3.2 | 24.5 | 0.5 | 0.2 |
| 87752 | 15.2 | < 0.1 | 63.5 | 12.5 | 276 | 60 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 620 | 27.4 | 61.9 | 7.5 | 23.8 | 4.1 | 3.4 | 0.4 | 2.4 | 14.5 | 0.5 | 0.2 |
| 87753 | 13.7 | 0.8 | 66.6 | 15.1 | 286 | 176 | 1.1 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 651 | 30.6 | 64.3 | 8.7 | 27.9 | 5.0 | 4.3 | 0.5 | 2.9 | 26.7 | 0.5 | 0.2 |
| 87754 | 14.4 | < 0.1 | 32.4 | 12.1 | 227 | 188 | 2.5 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.2 | 638 | 18.0 | 35.5 | 5.4 | 18.2 | 3.5 | 3.2 | 0.4 | 2.3 | 32.8 | 0.2 | 0.2 |
| 87756 | 16.8 | 0.7 | 57.7 | 9.4 | 260 | 202 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 613 | 23.6 | 47.5 | 6.3 | 19.7 | 3.3 | 2.6 | 0.3 | 1.8 | 4.1 | 0.4 | 0.1 |
| 87757 | 14.3 | < 0.1 | 56.4 | 11.7 | 271 | 66 | 1.0 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.2 | 617 | 23.4 | 51.7 | 6.5 | 20.5 | 3.6 | 3.1 | 0.4 | 2.3 | 7.0 | 0.3 | 0.2 |
| 87758 | 6.3 | 4.2 | 15.5 | 847 | > 1000 | 25 | 1.4 | 60.4 | 0.2 | 1 | < 0.1 | 0.7 | 248 | 1470 | 2700 | 346 | 1020 | > 1000 | 171 | 22.9 | 141 | 280 | 3.7 | 20.5 |
| 87759 | 14.6 | < 0.1 | 77.5 | 20.3 | 227 | 118 | 5.7 | 1.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 461 | 36.2 | 68.4 | 10.2 | 33.2 | 6.1 | 5.3 | 0.7 | 3.7 | 37.4 | 0.5 | 0.3 |
| 87760 | 14.7 | < 0.1 | 77.2 | 40.8 | 250 | 188 | 5.0 | 3.3 | < 0.1 | 2 | < 0.1 | 0.3 | 608 | 287 | 509 | 57.1 | 155 | 20.4 | 17.8 | 2.0 | 10.6 | 3.5 | 0.9 | 0.6 |
| 87761 | 15.5 | < 0.1 | 66.4 | 11.8 | 281 | 160 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 650 | 23.0 | 48.2 | 6.2 | 19.3 | 3.4 | 2.8 | 0.3 | 2.1 | 5.1 | 0.6 | 0.2 |
| 87762 | 14.2 | 6.4 | 70.3 | 21.8 | 224 | 159 | 4.8 | 7.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 629 | 80.3 | 135 | 19.2 | 57.0 | 8.7 | 7.2 | 0.8 | 4.6 | 62.6 | 0.7 | 0.3 |
| 87763 | 15.3 | 0.9 | 62.7 | 16.1 | 327 | 126 | 2.8 | 2.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 759 | 32.3 | 62.8 | 8.6 | 27.0 | 4.7 | 4.3 | 0.6 | 3.1 | 77.4 | 0.5 | 0.2 |
| 87766 | 17.1 | < 0.1 | 75.7 | 9.4 | 292 | 65 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 705 | 22.1 | 44.6 | 5.9 | 18.1 | 3.1 | 2.5 | 0.3 | 1.7 | 7.0 | 0.4 | 0.1 |
| 87767 | 16.9 | 0.9 | 66.4 | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87768 | 15.6 | < 0.1 | 62.8 | 14.3 | 307 | 228 | 0.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 682 | 32.2 | 63.6 | 9.0 | 28.3 | 4.9 | 3.9 | 0.5 | 2.7 | 16.4 | 0.3 | 0.2 |
| 87769 | 14.3 | 1.5 | 76.1 | 13.6 | 287 | 22 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 696 | 33.4 | 64.5 | 8.8 | 27.6 | 4.7 | 4.1 | 0.5 | 2.7 | 16.2 | 0.4 | 0.2 |
| 87770 | 15.4 | < 0.1 | 77.8 | 13.8 | 292 | 130 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 691 | 30.9 | 61.2 | 8.4 | 26.6 | 4.6 | 3.9 | 0.5 | 2.6 | 24.5 | 0.5 | 0.2 |
| 87771 | 13.4 | 2.4 | 65.5 | 13.4 | 291 | 190 | 5.1 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 628 | 25.5 | 50.2 | 6.8 | 21.5 | 3.8 | 3.4 | 0.4 | 2.5 | 11.6 | 0.4 | 0.2 |
| 87772 | 16.3 | 2.3 | 79.1 | 14.6 | 351 | 279 | 3.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 722 | 32.0 | 65.7 | 8.9 | 27.9 | 4.8 | 3.9 | 0.5 | 2.7 | 10.2 | 0.5 | 0.2 |
| 87773 | 14.3 | 1.2 | 72.8 | 11.8 | 307 | 161 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 690 | 29.2 | 61.3 | 8.1 | 25.3 | 4.4 | 3.7 | 0.4 | 2.3 | 12.5 | 0.5 | 0.2 |
| 87774 | 13.6 | 3.9 | 74.3 | 20.5 | 174 | 151 | 13.6 | 1.4 | < 0.1 | 1 | 0.1 | 0.2 | 584 | 47.3 | 67.6 | 12.7 | 40.2 | 6.6 | 5.6 | 0.7 | 3.8 | 22.7 | 0.2 | 0.3 |
| 87775 | 14.9 | 0.6 | 35.9 | 11.0 | 292 | 234 | 7.8 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.4 | 641 | 17.5 | 40.1 | 5.4 | 17.5 | 3.3 | 2.8 | 0.4 | 2.0 | 15.0 | 0.1 | 0.2 |
| 87776 | 6.4 | 1.7 | 36.2 | 7.8 | 94.6 | 50 | 0.9 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 332 | 19.2 | 34.4 | 4.7 | 14.1 | 2.3 | 2.0 | 0.2 | 1.5 | 17.9 | 0.1 | 0.1 |
| 87777 | 15.1 | 1.2 | 58.2 | 15.3 | 236 | 164 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 604 | 29.6 | 56.7 | 8.1 | 25.4 | 4.5 | 4.0 | 0.5 | 2.8 | 22.8 | 0.3 | 0.2 |
| 87778 | 17.0 | 1.2 | 65.7 | 10.5 | 334 | 174 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 695 | 21.3 | 43.5 | 5.8 | 18.3 | 3.2 | 2.6 | 0.3 | 1.9 | 2.1 | 0.2 | 0.2 |
| 87779 | 17.3 | 0.4 | 76.9 | 11.4 | 287 | 109 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 680 | 26.0 | 51.5 | 6.9 | 21.5 | 3.6 | 3.1 | 0.4 | 2.2 | 8.3 | 0.2 | 0.2 |
| 87780 | 17.8 | 2.3 | 55.8 | 13.6 | 277 | 99 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 562 | 24.8 | 50.6 | 6.9 | 22.8 | 4.2 | 3.8 | 0.5 | 2.7 | 5.2 | 0.2 | 0.2 |
| 87781 | 18.3 | 2.5 | 42.9 | 474 | 147 | 590 | 419 | 8.0 | 0.2 | 10 | 0.2 | 1.2 | 5490 | 162 | 353 | 45.6 | 158 | 59.8 | 96.3 | 18.9 | 120 | 13.4 | 1.0 | 7.3 |
| 87782 | 14.2 | 3.0 | 59.7 | 13.8 | 267 | 126 | 3.1 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 568 | 24.3 | 49.0 | 6.7 | 21.2 | 3.9 | 3.6 | 0.5 | 2.7 | 26.6 | 0.4 | 0.2 |
| 87783 | 17.3 | 2.3 | 48.6 | 15.0 | 260 | 158 | 3.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 557 | 23.9 | 48.1 | 6.5 | 21.0 | 3.8 | 3.6 | 0.5 | 2.9 | 6.8 | 0.6 | 0.2 |
| 87784 | 13.9 | 0.9 | 73.3 | 17.1 | 272 | 155 | 4.1 | 0.1 | < 0.1 | 1 | < 0.1 | 0.3 | 711 | 43.9 | 88.2 | 11.9 | 37.5 | 6.3 | 5.4 | 0.6 | 3.6 | 127 | 0.7 | 0.2 |
| 87785 | 13.8 | 14.1 | 54.4 | 68.0 | 247 | 223 | 59.7 | 3.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 515 | 315 | 621 | 72.1 | 220 | 32.8 | 28.9 | 3.2 | 16.3 | 108 | 1.3 | 0.9 |
| 87786 | 14.5 | 4.4 | 70.3 | 15.9 | 294 | 178 | 7.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 657 | 32.2 | 62.4 | 8.7 | 27.6 | 4.8 | 4.1 | 0.5 | 3.0 | 27.3 | 0.4 | 0.2 |
| 87787 | 13.7 | < 0.1 | 63.9 | 14.5 | 320 | 219 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 680 | 33.9 | 65.4 | 9.1 | 28.5 | 4.9 | 4.2 | 0.5 | 2.9 | 20.3 | 0.2 | 0.2 |
| 87788 | 14.2 | 2.3 | 71.2 | 13.9 | 326 | 88 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 722 | 31.8 | 70.5 | 8.7 | 27.7 | 4.8 | 4.1 | 0.5 | 2.8 | 14.8 | 0.3 | 0.2 |
| 87789 | 14.9 | 1.9 | 69.7 | 12.1 | 327 | 59 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 661 | 26.3 | 53.8 | 7.0 | 21.6 | 3.7 | 3.1 | 0.4 | 2.3 | 14.2 | 0.5 | 0.2 |
| 87790 | 12.8 | < 0.1 | 62.5 | 10.3 | 288 | 99 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 661 | 21.6 | 44.6 | 5.9 | 18.7 | 3.4 | 2.9 | 0.4 | 2.0 | 10.6 | 0.2 | 0.2 |
| 87791 | 18.7 | 0.4 | 76.3 | 10.2 | 284 | 133 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 671 | 19.8 | 40.3 | 5.4 | 17.3 | 3.1 | 2.8 | 0.3 | 2.0 | 9.0 | 0.2 | 0.2 |
| 87792 | 15.0 | 1.4 | 64.9 | 15.5 | 306 | 145 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 644 | 29.4 | 65.4 | 8.5 | 27.9 | 5.1 | 4.4 | 0.5 | 3.0 | 25.2 | 0.4 | 0.2 |
| 87793 | 15.5 | 1.0 | 75.3 | 8.7 | 299 | 171 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 747 | 22.3 | 44.7 | 5.9 | 18.1 | 2.9 | 2.4 | 0.3 | 1.6 | 7.9 | 0.3 | 0.1 |
| 87794 | 14.2 | < 0.1 | 61.3 | 17.2 | 264 | 149 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 593 | 35.3 | 73.2 | 10.3 | 33.7 | 5.9 | 5.1 | 0.6 | 3.5 | 18.9 | 0.5 | 0.2 |
| 87795 | 18.4 | 1.2 | 80.6 | 11.3 | 304 | 111 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 674 | 23.9 | 49.0 | 6.6 | 20.5 | 3.5 | 3.0 | 0.4 | 2.1 | 6.7 | 0.3 | 0.2 |
| 87796 | 16.4 | 0.5 | 53.4 | 14.4 | 284 | 328 | 2.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 627 | 20.2 | 42.0 | 5.8 | 18.5 | 3.5 | 3.2 | 0.5 | 2.7 | 36.9 | 0.4 | 0.2 |
| 87797 | 17.1 | < 0.1 | 79.9 | 10.3 | 351 | 53 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 758 | 25.6 | 50.5 | 7.0 | 20.1 | 3.3 | 3.0 | 0.4 | 2.0 | 3.7 | 0.2 | 0.2 |
| 87798 | 15.5 | < 0.1 | 63.9 | 15.0 | 298 | 91 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 622 | 25.4 | 52.8 | 7.5 | 23.2 | 4.4 | 4.3 | 0.6 | 3.1 | 9.9 | 0.2 | 0.2 |
| 87799 | 18.3 | < 0.1 | 64.4 | 14.8 | 278 | 135 | 0.4 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 632 | 29.5 | 59.8 | 8.5 | 25.2 | 4.6 | 4.2 | 0.5 | 3.0 | 18.6 | 0.5 | 0.2 |
| 87800 | 15.1 | < 0.1 | 63.7 | 11.8 | 388 | 137 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 566 | 28.2 | 55.3 | 7.7 | 22.3 | 3.6 | 3.2 | 0.4 | 2.3 | 15.4 | 0.3 | 0.2 |
| 89901 | 14.8 | 4.2 | 70.5 | 17.3 | 310 | 159 | 0.4 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 667 | 42.9 | 84.2 | 12.1 | 35.5 | 6.4 | 5.9 | 0.7 | 3.9 | 24.8 | 0.6 | 0.2 |
| 89902 | 18.9 | 0.6 | 82.0 | 11.4 | 295 | 199 | 1.3 | 0.5 | < 0.1 | 1 | < 0.1 | 0.2 | 687 | 26.2 | 52.0 | 7.1 | 21.1 | 3.7 | 3.3 | 0.4 | 2.3 | 28.0 | 0.6 | 0.2 |
| 89903 | 17.8 | 0.9 | 76.3 | 9.4 | 307 | 157 | 1.0 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.3 | 643 | 23.5 | 47.9 | 6.4 | 18.6 | 3.1 | 2.6 | 0.3 | 1.8 | 10.1 | 0.5 | 0.1 |
| 89904 | 16.1 | 0.7 | 72.8 | 10.5 | 331 | 201 | 4.5 | 0.3 | < 0.1 | 1 | < 0.1 | 0.3 | 675 | 22.1 | 45.3 | 6.0 | 17.7 | 3.2 | 2.9 | 0.3 | 2.0 | 15.7 | 0.4 | 0.2 |
| 89905 | 16.0 | 0.8 | 47.0 | 8.8 | 303 | 198 | 4.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 664 | 18.0 | 38.7 | 5.1 | 15.3 | 2.7 | 2.5 | 0.3 | 1.8 | 32.6 | 0.2 | 0.1 |
| 89906 | 16.3 | 3.7 | 63.1 | 11.8 | 240 | 107 | 0.7 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 580 | 23.8 | 51.1 | 6.5 | 19.3 | 3.4 | 3.1 | 0.4 | 2.2 | 20.4 | 0.3 | 0.2 |
| 89907 | 18.4 | 1.1 | 56.1 | 11.2 | 262 | 36 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 598 | 24.0 | 48.3 | 6.8 | 20.3 | 3.5 | 3.1 | 0.4 | 2.2 | 11.5 | 0.3 | 0.2 |
| 89908 | 17.2 | 2.2 | 66.4 | 12.4 | 304 | 28 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 643 | 29.2 | 60.4 | 8.0 | 23.3 | 4.0 | 3.6 | 0.4 | 2.4 | 10.8 | 0.5 | 0.2 |
| 89909 | 18.3 | < 0.1 | 64.6 | 11.9 | 263 | 109 | 0.5 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 693 | 28.9 | 56.2 | 7.6 | 22.1 | 3.9 | 3.6 | 0.4 | 2.5 | 9.2 | 0.4 | 0.2 |
| 89910 | 18.8 | 4.3 | 85.2 | 11.9 | 286 | 207 | 10.4 | 0.8 | < 0.1 | 1 | < 0.1 | 0.2 | 686 | 28.3 | 56.8 | 7.8 | 23.0 | 3.9 | 3.5 | 0.4 | 2.4 | 24.6 | 0.6 | 0.2 |
| 89911 | 17.4 | 0.1 | 59.5 | 16.3 | 195 | 181 | 3.1 | 0.8 | < 0.1 | 1 | < 0.1 | 0.2 | 992 | 34.5 | 67.7 | 8.9 | 25.7 | 4.9 | 4.7 | 0.6 | 3.8 | 24.3 | 0.6 | 0.3 |
| 89912 | 18.9 | 4.6 | 66.7 | 15.5 | 175 | 106 | 1.0 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 677 | 30.7 | 66.4 | 7.6 | 22.1 | 4.2 | 4.3 | 0.6 | 3.5 | 42.2 | 0.5 | 0.3 |
| 89913 | 24.2 | 0.2 | 79.1 | 17.5 | 332 | 112 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 626 | 27.5 | 59.8 | 7.8 | 24.0 | 4.6 | 4.3 | 0.6 | 3.3 | 10.8 | 0.5 | 0.2 |
| 89914 | 18.8 | < 0.1 | 76.1 | 43.5 | 226 | 258 | 4.1 | 1.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 1820 | 133 | 239 | 32.2 | 92.7 | 16.1 | 16.4 | 2.0 | 10.3 | 110 | 0.6 | 0.6 |
| 89915 | 15.8 | 1.7 | 39.9 | 9.8 | 270 | 195 | 17.4 | 0.4 | < 0.1 | 1 | < 0.1 | 0.2 | 633 | 21.1 | 46.8 | 6.1 | 17.9 | 3.2 | 3.0 | 0.4 | 2.1 | 20.3 | 0.2 | 0.2 |
| 89916 | 17.7 | 1.1 | 78.0 | 11.5 | 252 | 177 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 679 | 31.4 | 67.4 | 8.4 | 24.2 | 4.1 | 3.7 | 0.4 | 2.4 | 16.0 | 0.4 | 0.2 |
| 89917 | 17.7 | 0.2 | 68.1 | 14.6 | 296 | 51 | 1.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 625 | 35.4 | 77.3 | 13.2 | 42.0 | 8.5 | 5.9 | 0.7 | 3.5 | 38.5 | 0.3 | 0.2 |
| 89918 | 18.2 | 16.4 | 77.3 | 19.0 | 123 | 130 | 2.8 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 462 | 47.1 | 89.5 | 14.1 | 42.0 | 7.3 | 6.3 | 0.8 | 4.2 | 43.9 | 0.6 | 0.3 |
| 89919 | 18.1 | < 0.1 | 79.6 | 9.2 | 281 | 131 | 0.2 | < 0.1 | < | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89920 | 17.7 | 1.3 | 71.2 | 9.7 | 277 | 68 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 627 | 22.7 | 44.9 | 6.2 | 18.2 | 3.2 | 2.8 | 0.3 | 1.9 | 9.8 | 0.5 | 0.1 |
| 89921 | 17.0 | 2.4 | 66.7 | 14.2 | 341 | 58 | 0.4 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 692 | 31.5 | 63.1 | 8.9 | 26.6 | 4.6 | 4.2 | 0.5 | 2.7 | 25.1 | 0.6 | 0.2 |
| 89922 | 20.9 | 2.3 | 92.1 | 9.3 | 283 | 76 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 673 | 25.7 | 51.8 | 7.0 | 20.3 | 3.3 | 2.6 | 0.3 | 1.7 | 8.5 | 0.5 | 0.1 |
| 89923 | 17.6 | 1.6 | 88.4 | 14.1 | 290 | 121 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 683 | 38.0 | 74.6 | 9.7 | 27.7 | 4.6 | 4.2 | 0.5 | 2.8 | 26.1 | 0.6 | 0.2 |
| 89924 | 18.4 | 1.2 | 89.9 | 35.8 | 229 | 273 | 8.0 | 19.9 | < 0.1 | 2 | < 0.1 | 0.3 | 591 | 126 | 223 | 36.2 | 107 | 17.7 | 15.2 | 1.7 | 8.7 | 152 | 0.8 | 0.4 |
| 89925 | 15.7 | 1.8 | 26.6 | 6.0 | 231 | 185 | 9.7 | 0.9 | < 0.1 | < 1 | < 0.1 | 0.3 | 592 | 9.4 | 22.4 | 3.1 | 9.7 | 1.9 | 1.7 | 0.2 | 1.4 | 32.5 | 0.4 | 0.1 |
| 89926 | 17.0 | 4.3 | 71.6 | 15.1 | 270 | 201 | 6.0 | 1.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 669 | 34.2 | 66.5 | 9.3 | 27.8 | 5.0 | 4.5 | 0.6 | 3.2 | 48.4 | 0.5 | 0.2 |
| 89927 | 18.4 | 0.9 | 84.9 | 14.6 | 222 | 100 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 617 | 32.7 | 65.4 | 8.8 | 25.9 | 4.5 | 4.0 | 0.5 | 2.8 | 35.5 | 0.3 | 0.2 |
| 89928 | 17.2 | 1.8 | 66.2 | 10.0 | 350 | 156 | 2.0 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 718 | 20.1 | 41.5 | 5.6 | 16.6 | 3.0 | 2.7 | 0.3 | 1.9 | 12.7 | 0.5 | 0.1 |
| 89929 | 17.5 | 0.1 | 68.5 | 15.9 | 303 | 164 | 0.4 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 669 | 37.3 | 78.4 | 10.3 | 30.5 | 5.3 | 4.8 | 0.6 | 3.2 | 28.5 | 0.6 | 0.2 |
| 89930 | 16.9 | 0.4 | 79.9 | 16.1 | 285 | 155 | 1.2 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 720 | 36.2 | 69.8 | 10.1 | 30.2 | 5.4 | 4.9 | 0.6 | 3.4 | 24.5 | 0.7 | 0.2 |
| 89931 | 17.7 | 1.0 | 65.7 | 16.0 | 245 | 136 | 1.0 | 3.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 616 | 26.6 | 56.3 | 7.6 | 23.1 | 4.2 | 4.1 | 0.5 | 3.2 | 20.0 | 0.6 | 0.2 |
| 89932 | 19.2 | < 0.1 | 65.1 | 19.4 | 232 | 177 | 5.2 | 0.5 | < 0.1 | 1 | < 0.1 | 0.2 | 597 | 36.2 | 85.5 | 11.3 | 35.5 | 6.6 | 5.9 | 0.7 | 4.0 | 17.0 | 0.8 | 0.3 |
| 89933 | 15.3 | 0.8 | 24.3 | 21.3 | 179 | 211 | 38.3 | 2.9 | < 0.1 | 2 | < 0.1 | 0.3 | 505 | 31.4 | 65.5 | 9.1 | 27.2 | 4.8 | 4.6 | 0.7 | 4.3 | 18.0 | 0.4 | 0.4 |
| 89934 | 15.8 | 1.4 | 60.7 | 24.2 | 197 | 176 | 18.3 | 6.8 | < 0.1 | 1 | < 0.1 | 0.2 | 550 | 53.5 | 109 | 14.3 | 41.1 | 6.7 | 6.1 | 0.8 | 4.8 | 24.4 | 0.6 | 0.4 |
| 89935 | 20.0 | < 0.1 | 77.4 | 12.3 | 218 | 109 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 540 | 26.0 | 57.4 | 7.4 | 22.3 | 4.0 | 3.5 | 0.4 | 2.4 | 14.1 | 0.4 | 0.2 |
| 89937 | 18.6 | 0.4 | 79.2 | 15.8 | 336 | 113 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 678 | 35.8 | 71.2 | 10.2 | 30.4 | 5.4 | 4.7 | 0.6 | 3.1 | 30.6 | 0.4 | 0.2 |
| 89938 | 17.8 | 0.6 | 70.9 | 14.1 | 328 | 139 | 4.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 645 | 29.5 | 60.4 | 8.6 | 26.0 | 4.8 | 4.4 | 0.5 | 3.0 | 32.4 | 0.7 | 0.2 |
| 89939 | 17.0 | < 0.1 | 70.8 | 14.0 | 328 | 186 | 5.2 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 690 | 31.6 | 63.7 | 8.9 | 26.8 | 4.9 | 4.5 | 0.6 | 3.1 | 29.8 | 0.8 | 0.2 |
| 89940 | 19.4 | 1.8 | 82.0 | 14.3 | 317 | 153 | 2.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 701 | 31.0 | 62.5 | 8.9 | 27.6 | 5.0 | 4.5 | 0.5 | 2.9 | 88.5 | 0.6 | 0.2 |
| 89941 | 25.4 | < 0.1 | 77.5 | 17.2 | 149 | 115 | 6.0 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 476 | 23.4 | 46.5 | 6.7 | 20.7 | 4.1 | 3.9 | 0.6 | 3.4 | 36.7 | 0.6 | 0.3 |
| 89942 | 19.5 | < 0.1 | 66.4 | 17.6 | 255 | 159 | 3.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 559 | 29.1 | 64.0 | 8.6 | 26.6 | 5.1 | 5.0 | 0.6 | 3.7 | 24.1 | 0.5 | 0.3 |
| 89943 | 18.1 | 0.2 | 73.4 | 13.9 | 272 | 150 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 626 | 25.3 | 52.2 | 7.3 | 22.3 | 4.1 | 4.0 | 0.5 | 3.0 | 9.0 | 0.4 | 0.2 |
| 89944 | 22.4 | 0.7 | 71.6 | 26.4 | 208 | 252 | 10.0 | 0.2 | < 0.1 | 2 | < 0.1 | 0.2 | 611 | 44.9 | 111 | 13.8 | 42.6 | 8.1 | 8.0 | 1.0 | 5.7 | 24.0 | 0.8 | 0.4 |
| 89945 | 31.0 | < 0.1 | 64.5 | 17.9 | 63.8 | 330 | 6.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 682 | 14.7 | 30.7 | 4.4 | 13.2 | 2.6 | 2.8 | 0.5 | 3.3 | 9.3 | 0.4 | 0.3 |
| 89946 | 20.0 | < 0.1 | 157 | 11.7 | 119 | 54 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 530 | 19.6 | 40.3 | 5.3 | 15.9 | 3.0 | 3.1 | 0.4 | 2.4 | 43.8 | 0.4 | 0.2 |
| 89947 | 18.6 | 0.2 | 73.6 | 17.8 | 302 | 46 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 617 | 33.7 | 73.5 | 10.1 | 31.2 | 5.6 | 5.2 | 0.6 | 3.6 | 47.9 | 0.4 | 0.3 |
| 89948 | 17.3 | 1.0 | 76.2 | 12.5 | 320 | 100 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 640 | 22.4 | 49.4 | 6.4 | 19.2 | 3.6 | 3.3 | 0.4 | 2.5 | 16.1 | 0.6 | 0.2 |
| 89949 | 17.0 | 0.3 | 71.4 | 19.2 | 260 | 114 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 618 | 42.7 | 96.8 | 12.2 | 36.6 | 6.4 | 6.2 | 0.8 | 4.3 | 31.6 | 0.5 | 0.3 |
| 89950 | 20.6 | 0.2 | 75.6 | 15.9 | 215 | 142 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 590 | 24.2 | 50.9 | 7.0 | 21.6 | 4.2 | 4.0 | 0.5 | 3.2 | 16.7 | 0.5 | 0.3 |
| 89951 | 21.3 | < 0.1 | 83.0 | 18.1 | 256 | 158 | 1.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 686 | 39.1 | 77.4 | 11.5 | 35.0 | 6.3 | 5.6 | 0.7 | 3.9 | 40.5 | 0.6 | 0.3 |
| 89952 | 18.4 | 0.5 | 86.4 | 16.7 | 276 | 139 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 722 | 37.1 | 74.1 | 10.6 | 32.6 | 5.9 | 5.5 | 0.7 | 3.6 | 25.9 | 0.6 | 0.2 |
| 89953 | 22.3 | < 0.1 | 48.7 | 28.2 | 134 | 157 | 2.1 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 500 | 41.4 | 88.1 | 14.0 | 45.6 | 9.0 | 8.7 | 1.1 | 5.9 | 112 | 0.6 | 0.4 |
| 89954 | 19.4 | 0.8 | 64.1 | 22.1 | 214 | 165 | 2.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 549 | 43.2 | 81.0 | 14.9 | 49.6 | 9.7 | 8.4 | 1.0 | 4.8 | 111 | 0.6 | 0.3 |
| 89955 | 14.4 | 1.6 | 23.2 | 8.7 | 212 | 151 | 12.6 | 7.7 | < 0.1 | 1 | < 0.1 | 0.2 | 898 | 11.6 | 26.2 | 3.9 | 12.7 | 2.6 | 2.7 | 0.4 | 2.0 | 39.9 | 0.4 | 0.2 |
| 89956 | 17.4 | 0.3 | 51.7 | 22.5 | 236 | 81 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 485 | 50.5 | 106 | 14.9 | 46.0 | 8.2 | 7.3 | 0.9 | 4.7 | 80.3 | 0.5 | 0.3 |
| 89957 | 17.3 | 2.3 | 69.0 | 14.2 | 279 | 92 | 0.3 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 681 | 30.2 | 60.3 | 8.7 | 25.9 | 4.6 | 4.1 | 0.5 | 2.8 | 24.5 | 0.4 | 0.2 |
| 89958 | 16.6 | 0.5 | 79.0 | 11.0 | 366 | 217 | 0.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 725 | 24.6 | 48.9 | 6.7 | 19.6 | 3.4 | 3.2 | 0.4 | 2.1 | 9.6 | 0.4 | 0.2 |
| 89959 | 19.2 | < 0.1 | 71.5 | 15.2 | 273 | 81 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 618 | 31.2 | 70.3 | 9.2 | 28.0 | 5.1 | 4.7 | 0.6 | 3.1 | 21.5 | 0.4 | 0.2 |
| 89960 | 16.5 | < 0.1 | 58.8 | 15.7 | 277 | 64 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 537 | 25.3 | 53.2 | 7.6 | 23.4 | 4.6 | 4.4 | 0.6 | 3.4 | 20.9 | 0.4 | 0.2 |
| 89961 | 18.9 | < 0.1 | 82.5 | 21.0 | 290 | 116 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 685 | 42.8 | 85.5 | 12.6 | 38.9 | 7.1 | 6.5 | 0.8 | 4.3 | 37.7 | 0.5 | 0.3 |
| 89962 | 19.4 | 0.4 | 89.0 | 20.2 | 317 | 110 | 2.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 686 | 41.5 | 90.9 | 12.2 | 37.3 | 6.9 | 6.3 | 0.8 | 4.3 | 40.7 | 0.6 | 0.3 |
| 89963 | 11.1 | 2.0 | 49.0 | 10.8 | 298 | 36 | 2.3 | 5.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 693 | 23.5 | 46.3 | 6.7 | 20.3 | 3.6 | 3.2 | 0.4 | 2.3 | 55.3 | 0.6 | 0.2 |
| 89964 | 19.0 | < 0.1 | 13.1 | 22.6 | 290 | 198 | 18.9 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 410 | 36.3 | 93.7 | 13.2 | 42.4 | 8.4 | 8.0 | 1.0 | 5.6 | 56.0 | 0.8 | 0.3 |
| 89965 | 20.3 | 0.3 | 64.6 | 20.1 | 445 | 215 | 9.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 610 | 45.2 | 94.2 | 12.7 | 38.4 | 7.0 | 6.5 | 0.8 | 4.4 | 15.0 | 0.6 | 0.3 |
| 89966 | 16.1 | 0.3 | 65.9 | 15.3 | 315 | 209 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 670 | 35.2 | 70.9 | 10.2 | 30.1 | 5.4 | 4.9 | 0.6 | 3.3 | 37.0 | 0.5 | 0.2 |
| 89967 | 18.1 | 1.1 | 66.4 | 14.7 | 306 | 194 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 652 | 31.4 | 63.3 | 9.2 | 27.7 | 5.1 | 4.6 | 0.6 | 3.0 | 31.7 | 0.5 | 0.2 |
| 89968 | 19.3 | < 0.1 | 78.3 | 12.1 | 324 | 71 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 670 | 26.0 | 52.2 | 7.4 | 22.6 | 4.1 | 3.6 | 0.4 | 2.4 | 19.5 | 0.3 | 0.2 |
| 89969 | 21.0 | < 0.1 | 65.1 | 19.2 | 266 | 138 | 6.0 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 515 | 31.3 | 67.0 | 9.9 | 30.8 | 6.0 | 5.5 | 0.7 | 4.3 | 25.1 | 0.6 | 0.3 |
| 89970 | 19.7 | < 0.1 | 95.4 | 15.8 | 315 | 80 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 729 | 37.8 | 74.8 | 10.7 | 31.9 | 5.6 | 5.2 | 0.6 | 3.3 | 38.8 | 0.5 | 0.2 |
| 89971 | 20.8 | < 0.1 | 67.9 | 17.9 | 238 | 96 | 5.8 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 548 | 36.2 | 74.1 | 11.2 | 35.1 | 6.5 | 5.8 | 0.7 | 3.8 | 110 | 0.6 | 0.2 |
| 89972 | 25.8 | < 0.1 | 32.3 | 10.7 | 129 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89973 | 19.3 | < 0.1 | 14.3 | 9.2 | 164 | 202 | 18.5 | 0.2 | < 0.1 | 1 | < 0.1 | 0.2 | 445 | 14.3 | 38.8 | 5.5 | 18.2 | 3.8 | 3.6 | 0.5 | 2.6 | 84.3 | 0.8 | 0.2 |
| 89974 | 21.7 | < 0.1 | 54.7 | 10.5 | 201 | 144 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 468 | 29.9 | 60.3 | 8.8 | 26.6 | 4.6 | 3.9 | 0.4 | 2.3 | 17.9 | 0.3 | 0.2 |
| 89975 | 20.6 | < 0.1 | 68.5 | 14.5 | 263 | 152 | 1.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 607 | 36.7 | 75.0 | 10.8 | 32.4 | 5.8 | 4.9 | 0.6 | 3.1 | 44.3 | 0.5 | 0.2 |
| 89726 | 17.2 | < 0.1 | 74.9 | 15.8 | 295 | 114 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 639 | 43.8 | 105 | 11.4 | 32.9 | 5.5 | 4.8 | 0.6 | 3.4 | 26.7 | 0.6 | 0.2 |
| 89727 | 17.2 | 0.4 | 59.5 | 18.5 | 218 | 102 | 4.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 597 | 27.3 | 69.2 | 8.3 | 26.7 | 5.4 | 5.3 | 0.7 | 4.1 | 45.0 | 0.7 | 0.3 |
| 89728 | 18.7 | < 0.1 | 13.1 | 21.5 | 343 | 102 | 3.9 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 443 | 37.0 | 107 | 11.4 | 36.6 | 7.2 | 6.9 | 0.9 | 5.0 | 32.3 | 0.7 | 0.3 |
| 89729 | 15.8 | 1.4 | 72.7 | 14.9 | 317 | 23 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 608 | 38.8 | 93.0 | 10.3 | 29.9 | 5.3 | 4.3 | 0.6 | 3.0 | 22.9 | 0.4 | 0.2 |
| 89730 | 15.8 | 0.7 | 40.5 | 11.5 | 265 | 124 | 17.3 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.3 | 622 | 23.1 | 57.5 | 6.9 | 20.8 | 3.9 | 3.6 | 0.5 | 2.6 | 32.4 | 0.3 | 0.2 |
| 89731 | 18.0 | 2.7 | 60.4 | 11.7 | 366 | 77 | 17.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 695 | 29.7 | 74.6 | 8.0 | 23.9 | 4.1 | 3.5 | 0.4 | 2.4 | 12.9 | 0.3 | 0.2 |
| 89732 | 24.1 | < 0.1 | 65.6 | 9.2 | 200 | 69 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 441 | 32.6 | 78.8 | 8.5 | 24.0 | 3.7 | 2.8 | 0.3 | 1.9 | 11.5 | 0.3 | 0.1 |
| 89733 | 13.7 | < 0.1 | 20.7 | 13.1 | 108 | 83 | 1.3 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 287 | 26.5 | 66.5 | 7.9 | 25.7 | 5.2 | 4.8 | 0.6 | 3.2 | 57.8 | 0.6 | 0.2 |
| 89734 | 11.1 | 4.3 | 51.4 | 92.0 | 296 | 9 | 38.6 | 36.3 | 0.5 | 8 | 0.3 | 0.2 | 792 | 700 | 1680 | 182 | 552 | 93.1 | 76.3 | 7.7 | 32.7 | 50.6 | 1.9 | 0.9 |
| 89735 | 21.3 | < 0.1 | 29.6 | 26.6 | 299 | 18 | 3.6 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 458 | 31.4 | 80.7 | 9.5 | 31.3 | 6.6 | 6.8 | 1.0 | 5.7 | 57.3 | 0.5 | 0.4 |
| 89736 | 18.1 | 1.7 | 66.2 | 11.6 | 272 | 30 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 674 | 51.0 | 120 | 12.8 | 36.5 | 5.6 | 4.4 | 0.5 | 2.5 | 11.8 | 0.4 | 0.2 |
| 89737 | 18.1 | < 0.1 | 54.4 | 44.1 | 308 | 71 | 26.2 | 1.1 | < 0.1 | 2 | < 0.1 | 0.2 | 588 | 75.5 | 187 | 21.9 | 66.5 | 12.4 | 12.2 | 1.7 | 9.8 | 37.9 | 0.6 | 0.6 |
| 89739 | 20.3 | < 0.1 | 23.6 | 19.8 | 142 | 34 | 12.1 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 242 | 18.0 | 46.3 | 6.1 | 21.0 | 4.5 | 5.0 | 0.7 | 4.4 | 27.4 | 0.6 | 0.3 |
| 89740 | 18.5 | 2.9 | 67.5 | 16.0 | 286 | 114 | 50.0 | 1.2 | < 0.1 | 7 | 0.4 | 0.3 | 563 | 51.8 | 128 | 13.9 | 40.7 | 6.5 | 5.2 | 0.6 | 3.5 | 1350 | 0.6 | 0.2 |
| 89741 | 26.0 | < 0.1 | < 0.2 | 17.5 | 183 | 48 | 25.1 | 2.2 | < 0.1 | 2 | < 0.1 | 0.1 | 128 | 23.5 | 66.3 | 7.8 | 26.3 | 6.0 | 6.2 | 0.9 | 5.3 | 43.4 | 1.0 | 0.2 |
| 89742 | 16.4 | 0.9 | 65.8 | 17.8 | 305 | 191 | 3.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 660 | 54.0 | 128 | 14.0 | 40.6 | 6.9 | 5.9 | 0.7 | 3.9 | 26.6 | 0.4 | 0.2 |
| 89743 | 21.0 | < 0.1 | 38.8 | 22.3 | 122 | 27 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 828 | 32.7 | 94.7 | 12.9 | 43.7 | 8.5 | 7.9 | 1.0 | 5.3 | 133 | 0.4 | 0.3 |
| 89744 | 19.7 | < 0.1 | 68.2 | 11.1 | 284 | 39 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 607 | 32.8 | 81.2 | 8.7 | 25.4 | 4.0 | 3.3 | 0.4 | 2.3 | 9.6 | 0.4 | 0.2 |
| 89745 | 16.7 | 2.8 | 73.5 | 17.9 | 309 | 57 | 4.7 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 728 | 38.8 | 73.0 | 10.5 | 31.1 | 5.4 | 4.8 | 0.6 | 3.5 | 43.7 | 0.7 | 0.2 |
| 89746 | 20.9 | 0.9 | 65.2 | 21.7 | 254 | 15 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 887 | 58.4 | 136 | 14.5 | 43.0 | 7.1 | 6.2 | 0.8 | 4.4 | 34.8 | 0.5 | 0.3 |
| 89747 | 20.3 | < 0.1 | 15.9 | 20.7 | 232 | 23 | 9.9 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 196 | 23.6 | 66.6 | 7.7 | 25.2 | 5.4 | 5.3 | 0.8 | 4.5 | 34.2 | 0.6 | 0.3 |
| 89748 | 17.7 | 0.4 | 39.9 | 27.1 | 200 | 128 | 14.6 | 1.4 | 0.1 | 2 | < 0.1 | 0.3 | 517 | 263 | 638 | 61.4 | 165 | 21.5 | 16.9 | 1.7 | 7.6 | 23.2 | 1.1 | 0.3 |
| 89749 | 19.0 | 2.2 | 57.5 | 24.3 | 263 | 148 | 5.5 | 1.5 | < 0.1 | 2 | < 0.1 | 0.3 | 574 | 150 | 342 | 36.7 | 102 | 14.1 | 10.7 | 1.2 | 5.8 | 25.7 | 0.9 | 0.3 |
| 89750 | 19.6 | < 0.1 | 4.0 | 26.7 | 409 | 51 | 24.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.3 | 138 | 50.4 | 115 | 15.0 | 49.7 | 9.8 | 9.8 | 1.3 | 6.9 | 95.5 | 0.9 | 0.3 |
| 89752 | 22.3 | < 0.1 | 42.0 | 23.1 | 171 | 64 | 9.5 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 488 | 26.9 | 78.2 | 9.1 | 30.2 | 6.3 | 6.2 | 0.8 | 4.9 | 21.9 | 0.7 | 0.3 |
| 89753 | 24.9 | < 0.1 | < 0.2 | 14.9 | 63.4 | 50 | 76.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 135 | 6.1 | 21.9 | 2.9 | 10.5 | 3.1 | 3.5 | 0.6 | 3.9 | 71.0 | 0.6 | 0.3 |
| 89754 | 16.8 | < 0.1 | 64.5 | 17.4 | 253 | 53 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 518 | 45.1 | 109 | 12.2 | 35.8 | 6.3 | 5.6 | 0.7 | 3.7 | 32.1 | 0.4 | 0.2 |
| 89755 | 17.3 | < 0.1 | 47.6 | 17.3 | 251 | 73 | 0.5 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 507 | 42.0 | 94.1 | 11.5 | 34.2 | 6.1 | 5.6 | 0.7 | 3.8 | 29.2 | 0.6 | 0.2 |
| 89756 | 17.1 | < 0.1 | 62.1 | 17.7 | 294 | 14 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 614 | 49.7 | 115 | 13.0 | 38.8 | 6.7 | 6.2 | 0.7 | 3.9 | 25.5 | 0.5 | 0.2 |
| 89757 | 16.4 | 2.5 | 29.7 | 14.0 | 194 | 50 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 391 | 21.8 | 59.5 | 6.3 | 19.4 | 3.6 | 3.6 | 0.5 | 2.9 | 28.4 | 0.4 | 0.2 |
| 89758 | 20.9 | < 0.1 | 11.0 | 20.2 | 172 | 7 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 105 | 17.2 | 46.7 | 5.8 | 19.8 | 4.4 | 4.8 | 0.7 | 4.3 | 2.0 | 0.4 | 0.3 |
| 89759 | 20.0 | < 0.1 | 51.0 | 20.0 | 250 | 134 | 4.2 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 485 | 42.5 | 105 | 11.3 | 34.4 | 6.3 | 6.0 | 0.7 | 4.3 | 37.7 | 0.8 | 0.3 |
| 89760 | 18.0 | 0.4 | 72.4 | 11.3 | 335 | 96 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 640 | 29.3 | 69.0 | 7.5 | 21.9 | 3.6 | 3.1 | 0.4 | 2.2 | 7.5 | 0.4 | 0.2 |
| 89761 | 20.0 | < 0.1 | 55.6 | 17.9 | 231 | 101 | 6.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 481 | 29.3 | 72.3 | 8.6 | 26.9 | 5.3 | 5.2 | 0.7 | 3.8 | 164 | 0.6 | 0.2 |
| 89762 | 19.2 | < 0.1 | 18.4 | 9.4 | 225 | 97 | 15.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 386 | 9.1 | 27.4 | 3.2 | 10.8 | 2.4 | 2.5 | 0.4 | 2.3 | 34.0 | 0.8 | 0.2 |
| 89763 | 21.4 | 0.6 | 60.0 | 16.8 | 322 | 81 | 3.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 558 | 27.1 | 68.6 | 7.7 | 23.8 | 4.6 | 4.3 | 0.6 | 3.3 | 46.5 | 0.6 | 0.2 |
| 89764 | 20.0 | < 0.1 | 54.8 | 14.3 | 230 | 44 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 434 | 41.3 | 102 | 10.6 | 30.5 | 5.0 | 4.2 | 0.5 | 3.0 | 28.0 | 0.5 | 0.2 |
| 89765 | 18.1 | < 0.1 | 76.4 | 17.0 | 253 | 114 | 0.4 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 630 | 52.0 | 123 | 13.1 | 39.4 | 6.7 | 6.1 | 0.7 | 3.9 | 26.6 | 0.8 | 0.2 |
| 89766 | 21.6 | < 0.1 | 76.4 | 11.1 | 291 | 45 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 622 | 37.4 | 88.2 | 9.2 | 26.7 | 4.4 | 3.6 | 0.4 | 2.3 | 54.4 | 0.4 | 0.2 |
| 89767 | 22.6 | 0.1 | 90.7 | 16.7 | 239 | 113 | 1.2 | 0.4 | < 0.1 | 1 | < 0.1 | 0.2 | 651 | 64.7 | 152 | 16.3 | 46.9 | 7.7 | 6.3 | 0.7 | 3.8 | 33.7 | 1.0 | 0.2 |
| 89768 | 18.2 | 1.7 | 78.4 | 16.1 | 253 | 87 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 576 | 47.6 | 115 | 11.9 | 34.8 | 6.0 | 5.5 | 0.7 | 3.7 | 30.3 | 0.6 | 0.2 |
| 89769 | 25.9 | < 0.1 | 81.5 | 10.7 | 224 | 89 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 568 | 24.8 | 62.2 | 6.5 | 19.7 | 3.4 | 3.0 | 0.4 | 2.2 | 16.1 | 0.8 | 0.2 |
| 89770 | 13.5 | < 0.1 | 45.5 | 22.5 | 216 | 31 | 0.3 | < 0.1 | < 0.1 | 1 | < 0.1 | 0.1 | 516 | 39.6 | 95.0 | 11.5 | 35.8 | 6.7 | 6.5 | 0.9 | 4.9 | 71.6 | 0.6 | 0.3 |
| 89771 | 17.8 | 1.5 | 26.5 | 10.3 | 236 | 189 | 6.9 | 0.7 | < 0.1 | 1 | < 0.1 | 0.3 | 537 | 26.0 | 68.1 | 7.6 | 23.0 | 4.0 | 3.7 | 0.4 | 2.5 | 15.8 | 0.4 | 0.2 |
| 89772 | 18.6 | < 0.1 | 52.0 | 14.2 | 277 | 148 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 516 | 50.9 | 124 | 13.3 | 38.8 | 6.4 | 5.1 | 0.6 | 3.1 | 10.5 | 0.4 | 0.2 |
| 89773 | 16.4 | 0.2 | 32.3 | 15.4 | 209 | 42 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 474 | 36.1 | 79.1 | 9.4 | 28.0 | 4.8 | 4.4 | 0.6 | 3.2 | 66.3 | 0.6 | 0.2 |
| 89774 | 16.8 | < 0.1 | 49.2 | 11.9 | 241 | 66 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 492 | 48.6 | 114 | 12.0 | 34.4 | 5.3 | 4.3 | 0.5 | 2.7 | 34.4 | 0.4 | 0.2 |
| 89775 | 18.0 | 0.4 | 80.2 | 14.9 | 213 | 21 | 4.2 | 1.7 | < 0.1 | 1 | < 0.1 | 0.1 | 660 | 52.2 | 120 | 13.0 | 38.0 | 6.1 | 5.2 | 0.6 | 3.3 | 30.4 | 0.7 | 0.2 |
| 89776 | 18.2 | 0.5 | 46.4 | 15.1 | 254 | 120 | 9.8 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 634 | 47. | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89777 | 17.8 | 0.5 | 77.3 | 19.6 | 337 | 111 | 12.1 | 0.6 | < 0.1 | 1 | < 0.1 | 0.3 | 675 | 107 | 241 | 26.0 | 73.4 | 10.6 | 8.7 | 0.9 | 4.6 | 25.0 | 0.7 | 0.3 |
| 89778 | 19.8 | 1.9 | 80.2 | 15.3 | 324 | 106 | 3.7 | 0.8 | < 0.1 | 1 | < 0.1 | 0.3 | 688 | 47.0 | 115 | 12.5 | 37.1 | 6.1 | 5.1 | 0.6 | 3.1 | 29.5 | 0.8 | 0.2 |
| 89779 | 19.0 | 1.0 | 73.3 | 11.8 | 299 | 99 | 1.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.4 | 634 | 61.1 | 145 | 15.8 | 44.1 | 6.7 | 5.0 | 0.5 | 2.7 | 11.3 | 0.7 | 0.2 |
| 89780 | 17.8 | 1.2 | 75.0 | 18.0 | 324 | 14 | 2.3 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 671 | 83.6 | 189 | 20.8 | 58.9 | 9.1 | 7.8 | 0.8 | 4.2 | 21.9 | 0.8 | 0.2 |
| 89781 | 18.6 | 1.0 | 45.7 | 9.5 | 323 | 155 | 19.0 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.4 | 641 | 19.3 | 49.7 | 6.0 | 18.3 | 3.4 | 3.0 | 0.4 | 2.1 | 11.4 | 0.2 | 0.2 |
| 89782 | 19.6 | 1.4 | 77.0 | 15.1 | 331 | 22 | 3.2 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 675 | 48.3 | 113 | 12.4 | 36.3 | 5.7 | 4.9 | 0.6 | 3.2 | 21.0 | 0.4 | 0.2 |
| 89783 | 20.6 | 1.8 | 79.1 | 15.4 | 354 | 218 | 1.4 | 0.3 | < 0.1 | 1 | < 0.1 | 0.4 | 755 | 43.7 | 106 | 11.7 | 34.0 | 5.8 | 5.0 | 0.6 | 3.2 | 90.3 | 0.5 | 0.2 |
| 89784 | 21.0 | 1.8 | 76.1 | 10.7 | 322 | 16 | 2.3 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 679 | 24.1 | 59.5 | 6.7 | 19.8 | 3.5 | 2.9 | 0.4 | 2.1 | 10.3 | 0.4 | 0.2 |
| 89785 | 20.3 | 2.0 | 80.7 | 12.8 | 395 | 116 | 2.1 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 791 | 32.9 | 82.1 | 8.8 | 25.9 | 4.4 | 3.9 | 0.5 | 2.6 | 12.4 | 0.9 | 0.2 |
| 89786 | 18.9 | 1.9 | 73.9 | 11.2 | 327 | 187 | 3.6 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.4 | 686 | 29.0 | 71.8 | 7.7 | 22.9 | 4.0 | 3.5 | 0.4 | 2.4 | 10.5 | 0.7 | 0.2 |
| 89787 | 19.1 | 1.6 | 65.7 | 12.9 | 313 | 169 | 2.0 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.3 | 627 | 40.8 | 104 | 11.4 | 33.9 | 5.5 | 4.6 | 0.5 | 2.7 | 11.8 | 0.8 | 0.2 |
| 89788 | 19.3 | 2.2 | 73.4 | 11.1 | 356 | 178 | 3.9 | 0.7 | < 0.1 | 1 | < 0.1 | 0.3 | 742 | 27.9 | 69.6 | 7.4 | 21.5 | 3.8 | 3.2 | 0.4 | 2.2 | 85.5 | 0.7 | 0.2 |
| 89801 | 22.4 | 0.5 | 68.9 | 19.9 | 326 | 125 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 649 | 36.5 | 95.6 | 11.3 | 35.9 | 6.7 | 6.3 | 0.8 | 4.4 | 27.6 | 0.6 | 0.3 |
| 89802 | 21.5 | < 0.1 | 61.6 | 19.1 | 313 | 56 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 659 | 33.5 | 87.9 | 10.5 | 33.4 | 6.2 | 5.9 | 0.8 | 4.3 | 48.2 | 0.5 | 0.3 |
| 89803 | 21.9 | 0.3 | 15.3 | 12.9 | 300 | 177 | 18.9 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.4 | 475 | 15.4 | 46.1 | 5.7 | 19.2 | 4.2 | 4.2 | 0.6 | 3.3 | 26.7 | 1.0 | 0.2 |
| 89804 | 23.8 | 2.1 | 91.7 | 11.5 | 330 | 65 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 723 | 26.4 | 66.7 | 7.2 | 21.0 | 3.7 | 3.1 | 0.4 | 2.1 | 6.0 | 0.4 | 0.2 |
| 89805 | 21.1 | 1.5 | 68.3 | 9.9 | 290 | 14 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 668 | 30.4 | 72.5 | 7.6 | 21.8 | 3.5 | 3.0 | 0.4 | 2.0 | 5.3 | 0.3 | 0.1 |
| 89806 | 18.2 | 0.6 | 57.8 | 18.9 | 319 | 95 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 597 | 39.8 | 105 | 11.5 | 35.7 | 6.4 | 6.0 | 0.7 | 4.0 | 65.0 | 0.6 | 0.3 |
| 89807 | 23.8 | 0.2 | 61.8 | 15.9 | 376 | 92 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 523 | 27.9 | 74.1 | 8.4 | 26.4 | 4.9 | 4.6 | 0.6 | 3.1 | 5.5 | 0.4 | 0.2 |
| 89809 | 18.2 | 2.0 | 71.2 | 17.8 | 315 | 167 | 0.3 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 684 | 31.0 | 77.2 | 9.0 | 27.1 | 5.0 | 4.7 | 0.6 | 3.6 | 23.4 | 0.7 | 0.3 |
| 89810 | 18.3 | 2.0 | 72.7 | 12.1 | 353 | 129 | 2.0 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.4 | 702 | 30.7 | 81.2 | 8.5 | 25.5 | 4.5 | 3.9 | 0.5 | 2.5 | 16.8 | 0.7 | 0.2 |
| 89811 | 22.9 | < 0.1 | 66.8 | 12.4 | 269 | 151 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 592 | 24.6 | 47.7 | 6.7 | 19.3 | 3.4 | 3.1 | 0.4 | 2.2 | 11.5 | 0.4 | 0.2 |
| 89812 | 19.6 | 1.5 | 38.5 | 11.7 | 298 | 302 | 7.6 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.5 | 620 | 24.3 | 54.4 | 7.8 | 22.6 | 4.0 | 3.4 | 0.4 | 2.2 | 12.7 | 0.2 | 0.2 |
| 89813 | 20.3 | 0.9 | 66.6 | 12.3 | 327 | 204 | 3.5 | 0.2 | < 0.1 | < 1 | 0.3 | 0.5 | 704 | 30.2 | 60.1 | 8.5 | 24.4 | 4.2 | 3.6 | 0.4 | 2.3 | 14.0 | 0.2 | 0.2 |
| 89814 | 23.4 | < 0.1 | 68.7 | 19.3 | 263 | 119 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 659 | 35.7 | 76.1 | 10.4 | 30.2 | 5.5 | 5.1 | 0.6 | 3.6 | 14.0 | 0.4 | 0.3 |
| 89815 | 21.5 | 0.4 | 74.4 | 12.5 | 320 | 51 | 2.8 | 0.9 | < 0.1 | < 1 | < 0.1 | 0.4 | 681 | 33.3 | 66.6 | 9.5 | 27.3 | 4.6 | 3.8 | 0.4 | 2.4 | 12.0 | 0.1 | 0.2 |
| 89816 | 22.7 | < 0.1 | 79.0 | 13.4 | 276 | 198 | 0.7 | 0.6 | < 0.1 | 1 | < 0.1 | 0.4 | 665 | 41.6 | 82.6 | 11.4 | 31.8 | 5.1 | 4.2 | 0.5 | 2.7 | 15.6 | 0.6 | 0.2 |
| 89817 | 23.2 | 0.5 | 81.8 | 12.1 | 280 | 31 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 695 | 29.2 | 58.9 | 8.0 | 22.9 | 4.0 | 3.5 | 0.4 | 2.3 | 13.7 | 0.6 | 0.2 |
| 89818 | 23.2 | 0.9 | 81.7 | 15.0 | 278 | 175 | 0.8 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 709 | 41.8 | 80.4 | 11.7 | 32.5 | 5.6 | 4.6 | 0.5 | 2.9 | 61.8 | 0.5 | 0.2 |
| 89819 | 25.7 | 0.7 | 75.8 | 9.3 | 275 | 91 | 0.1 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.3 | 704 | 28.9 | 57.0 | 7.9 | 21.4 | 3.6 | 2.9 | 0.3 | 1.8 | 14.7 | 0.5 | 0.1 |
| 89820 | 24.1 | 0.1 | 75.2 | 10.9 | 308 | 182 | 2.2 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.6 | 698 | 27.0 | 53.2 | 7.3 | 21.0 | 3.7 | 3.2 | 0.4 | 2.0 | 9.4 | 0.6 | 0.1 |
| 89821 | 23.1 | 0.8 | 77.8 | 12.4 | 313 | 200 | 3.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.3 | 710 | 30.0 | 59.2 | 8.5 | 24.2 | 4.2 | 3.5 | 0.4 | 2.2 | 12.4 | 0.5 | 0.2 |
| 89822 | 22.9 | 0.8 | 76.6 | 14.4 | 314 | 38 | 0.5 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 741 | 35.6 | 69.9 | 10.0 | 28.5 | 4.9 | 4.1 | 0.5 | 2.6 | 18.6 | 0.5 | 0.2 |
| 89823 | 21.8 | 1.2 | 54.5 | 10.0 | 272 | 183 | 5.3 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.4 | 637 | 22.9 | 53.1 | 6.8 | 19.1 | 3.4 | 2.9 | 0.4 | 2.0 | 17.9 | 0.1 | 0.1 |
| 89824 | 22.9 | < 0.1 | 79.3 | 15.3 | 331 | 209 | 5.6 | 0.9 | < 0.1 | 1 | < 0.1 | 0.5 | 670 | 33.4 | 70.1 | 9.4 | 27.3 | 4.8 | 4.0 | 0.5 | 2.7 | 14.9 | 0.3 | 0.2 |
| 89825 | 22.4 | 1.6 | 83.6 | 15.0 | 326 | 190 | 4.1 | 2.3 | < 0.1 | < 1 | < 0.1 | 0.4 | 676 | 34.6 | 67.3 | 9.7 | 27.9 | 4.9 | 4.2 | 0.5 | 2.7 | 11.1 | 0.5 | 0.2 |
| 89826 | 23.9 | 1.8 | 78.0 | 14.0 | 332 | 208 | 5.5 | 0.6 | < 0.1 | 1 | < 0.1 | 0.5 | 770 | 34.3 | 70.0 | 9.8 | 27.8 | 4.6 | 4.0 | 0.5 | 2.5 | 28.1 | 0.5 | 0.2 |
| 89827 | 21.4 | 0.8 | 74.4 | 11.7 | 315 | 167 | 4.4 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.4 | 683 | 29.1 | 55.1 | 7.9 | 22.3 | 3.7 | 3.3 | 0.4 | 2.1 | 18.3 | 0.4 | 0.2 |
| 89828 | 22.5 | 1.4 | 79.1 | 12.0 | 328 | 224 | 2.8 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.5 | 723 | 33.7 | 74.8 | 9.4 | 26.1 | 4.4 | 3.5 | 0.4 | 2.2 | 19.3 | 0.5 | 0.2 |
| 89829 | 18.7 | 2.7 | 61.9 | 20.6 | 245 | 197 | 3.8 | 1.0 | < 0.1 | 1 | < 0.1 | 0.5 | 559 | 40.2 | 71.6 | 11.4 | 32.9 | 5.7 | 5.0 | 0.6 | 3.4 | 59.6 | 0.5 | 0.2 |
| 89830 | 20.1 | 1.2 | 65.8 | 11.4 | 290 | 212 | 3.2 | 0.5 | < 0.1 | 1 | < 0.1 | 0.5 | 656 | 32.7 | 63.9 | 8.8 | 24.5 | 4.0 | 3.3 | 0.4 | 2.1 | 24.8 | 0.4 | 0.2 |
| 89831 | 19.2 | 2.1 | 56.3 | 28.7 | 251 | 31 | 0.2 | 1.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 537 | 34.4 | 48.4 | 8.2 | 24.4 | 4.2 | 4.5 | 0.5 | 3.2 | 21.4 | 0.2 | 0.3 |
| 89832 | 24.5 | 1.5 | 80.2 | 14.7 | 313 | 282 | 7.8 | 0.3 | < 0.1 | 1 | < 0.1 | 0.6 | 705 | 38.3 | 76.4 | 10.9 | 30.6 | 5.1 | 4.2 | 0.5 | 2.6 | 21.6 | 0.7 | 0.2 |
| 89833 | 22.0 | 8.0 | 67.0 | 17.0 | 252 | 225 | 45.6 | 1.0 | < 0.1 | 1 | < 0.1 | 0.4 | 616 | 36.3 | 86.8 | 10.7 | 31.3 | 5.8 | 5.3 | 0.7 | 3.6 | 22.9 | 0.2 | 0.2 |
| 89834 | 22.7 | < 0.1 | 74.0 | 11.7 | 301 | 209 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.5 | 645 | 40.7 | 79.2 | 11.0 | 30.6 | 4.9 | 4.0 | 0.4 | 2.2 | 17.3 | 0.3 | 0.2 |
| 89835 | 22.4 | < 0.1 | 78.2 | 8.2 | 278 | 113 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 635 | 21.1 | 41.9 | 5.9 | 16.6 | 2.7 | 2.2 | 0.2 | 1.4 | 3.4 | 0.4 | 0.1 |
| 89836 | 21.8 | 0.6 | 79.5 | 12.6 | 359 | 200 | 3.1 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.5 | 734 | 29.0 | 56.2 | 7.9 | 22.1 | 3.7 | 3.2 | 0.4 | 2.2 | 14.5 | 0.4 | 0.2 |
| 89837 | 23.1 | 2.6 | 95.3 | 17.1 | 261 | 172 | 9.2 | 11.9 | < 0.1 | 1 | < 0.1 | 0.4 | 878 | 40.3 | 73.4 | 11.4 | 32.4 | 5.7 | 4.7 | 0.6 | 3.0 | 36.5 | 0.5 | 0.2 |
| 89838 | 21.9 | 0.5 | 74.4 | 13.3 | 330 | 214 | 2.4 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.5 | 737 | 35.0 | 69.1 | 9.7 | 27.3 | 4.5 | 3.9 | 0.4 | 2.4 | 24.2 | 0.4 | 0.2 |
| 89839 | 22.4 | 1.1 | 76.4 | 13.2 | 333 | 214 | 3.5 | 0.3 | < 0.1 | 1 | < 0.1 | 0.4 | 732 | 33.3 | 68.0 | 9.4 | 26.5 | 4.5 | 3.8 | 0.5 | 2.4 | 12.9 | 0.4 | 0.2 |
| 89840 | 21.8 | < 0.1 | 69.8 | 9.0 | 298 | 74 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 645 | 24.0 | 47.2 | 6.4 | 18.4 | 3.0 | 2.4 | 0.3 | 1.5 | 4.1 | 0.4 | 0.1 |
| 89841 | 23.0 | < 0.1 | 62.1 | 15.9 | 272 | 193 | 2.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 716 | 24.5 | 49.0 | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89842 | 19.5 | 1.2 | 61.7 | 15.0 | 318 | 294 | 6.1 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.6 | 603 | 37.2 | 79.2 | 10.5 | 30.2 | 5.1 | 4.4 | 0.5 | 2.7 | 66.2 | 0.2 | 0.2 |
| 89843 | 19.9 | < 0.1 | 73.5 | 11.7 | 320 | 196 | 2.1 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.4 | 674 | 27.8 | 55.6 | 7.8 | 22.0 | 3.9 | 3.2 | 0.4 | 2.1 | 10.5 | 0.2 | 0.2 |
| 89844 | 21.0 | 0.6 | 84.9 | 13.6 | 299 | 120 | 1.6 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.4 | 724 | 32.3 | 61.3 | 9.0 | 25.2 | 4.3 | 3.7 | 0.4 | 2.5 | 21.2 | 0.5 | 0.2 |
| 89845 | 20.7 | < 0.1 | 72.2 | 13.7 | 310 | 109 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 656 | 33.8 | 67.3 | 9.8 | 28.1 | 4.7 | 4.0 | 0.5 | 2.5 | 14.4 | 0.5 | 0.2 |
| 89846 | 23.4 | 1.9 | 83.3 | 11.1 | 292 | 190 | 6.5 | 0.8 | < 0.1 | 1 | < 0.1 | 0.3 | 702 | 27.7 | 53.5 | 7.8 | 21.6 | 3.6 | 3.0 | 0.4 | 1.9 | 14.1 | 0.8 | 0.1 |
| 89847 | 20.2 | 2.4 | 78.0 | 12.5 | 328 | 200 | 3.3 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.4 | 692 | 27.7 | 58.3 | 7.8 | 22.1 | 3.8 | 3.2 | 0.4 | 2.2 | 12.5 | 0.5 | 0.2 |
| 89848 | 23.5 | 1.2 | 70.8 | 19.4 | 272 | 230 | 13.7 | 1.8 | < 0.1 | 2 | < 0.1 | 0.4 | 814 | 35.0 | 73.5 | 10.9 | 32.0 | 5.9 | 5.4 | 0.7 | 3.7 | 32.7 | 0.9 | 0.3 |
| 89849 | 22.1 | 0.8 | 58.1 | 17.0 | 307 | 113 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 660 | 29.5 | 62.0 | 9.0 | 27.3 | 5.1 | 4.6 | 0.6 | 3.2 | 15.6 | 0.5 | 0.2 |
| 89850 | 25.2 | < 0.1 | 20.3 | 22.8 | 139 | 120 | 3.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 534 | 23.8 | 52.9 | 8.9 | 29.1 | 5.9 | 5.8 | 0.8 | 4.4 | 49.4 | 0.4 | 0.3 |
| 89851 | 21.0 | < 0.1 | 51.5 | 18.9 | 178 | 76 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 517 | 32.8 | 74.7 | 10.5 | 33.4 | 6.5 | 5.7 | 0.7 | 3.9 | 49.3 | 0.4 | 0.2 |
| 89852 | 20.1 | 1.5 | 71.1 | 17.6 | 298 | 130 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 666 | 37.6 | 73.9 | 11.1 | 32.6 | 5.8 | 5.1 | 0.6 | 3.3 | 59.8 | 0.5 | 0.2 |
| 89853 | 21.0 | < 0.1 | 64.8 | 14.4 | 273 | 131 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.4 | 603 | 31.9 | 71.2 | 9.6 | 28.4 | 5.2 | 4.5 | 0.5 | 2.8 | 41.7 | 0.6 | 0.2 |
| 89854 | 24.1 | < 0.1 | 66.1 | 10.6 | 305 | 50 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 663 | 24.7 | 49.1 | 6.9 | 19.9 | 3.6 | 3.0 | 0.4 | 2.0 | 3.4 | 0.5 | 0.1 |
| 89855 | 23.2 | 0.9 | 68.6 | 20.6 | 227 | 149 | 25.3 | 1.0 | < 0.1 | 1 | < 0.1 | 0.4 | 675 | 42.7 | 83.2 | 12.1 | 35.3 | 6.4 | 5.8 | 0.7 | 3.9 | 56.4 | 0.9 | 0.3 |
| 89856 | 21.4 | < 0.1 | 70.3 | 22.1 | 241 | 117 | 1.4 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 664 | 53.9 | 101 | 14.8 | 42.6 | 7.4 | 6.6 | 0.8 | 4.3 | 40.7 | 0.7 | 0.3 |
| 89857 | 21.5 | 0.5 | 65.0 | 19.7 | 228 | 112 | 4.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.3 | 597 | 45.2 | 86.9 | 12.4 | 35.9 | 6.2 | 5.7 | 0.7 | 3.8 | 36.3 | 0.7 | 0.2 |
| 89858 | 24.2 | 0.7 | 73.5 | 20.6 | 217 | 135 | 11.1 | 0.5 | < 0.1 | 1 | < 0.1 | 0.3 | 662 | 48.0 | 90.5 | 13.4 | 39.3 | 6.7 | 6.0 | 0.7 | 3.9 | 45.0 | 0.8 | 0.3 |
| 89859 | 24.3 | 2.5 | 83.9 | 18.4 | 225 | 132 | 7.2 | 0.3 | < 0.1 | 1 | < 0.1 | 0.4 | 687 | 38.7 | 74.0 | 10.7 | 31.0 | 5.5 | 5.0 | 0.6 | 3.5 | 32.1 | 1.0 | 0.2 |
| 89860 | 24.3 | 1.8 | 76.0 | 14.9 | 223 | 109 | 4.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 575 | 35.4 | 68.4 | 9.6 | 28.1 | 4.9 | 4.3 | 0.5 | 2.8 | 25.5 | 0.7 | 0.2 |
| 89861 | 20.5 | < 0.1 | 61.5 | 19.1 | 237 | 68 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 539 | 41.3 | 80.9 | 11.6 | 34.0 | 6.1 | 5.6 | 0.7 | 3.8 | 42.9 | 0.5 | 0.3 |
| 89862 | 21.1 | < 0.1 | 44.5 | 17.1 | 232 | 45 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 410 | 25.5 | 53.6 | 7.8 | 23.2 | 4.5 | 4.6 | 0.6 | 3.6 | 62.9 | 0.5 | 0.2 |
| 89863 | 23.0 | 0.4 | 77.9 | 19.9 | 255 | 132 | 1.0 | 0.2 | < 0.1 | 1 | < 0.1 | 0.3 | 660 | 50.1 | 93.8 | 13.7 | 39.3 | 6.9 | 6.0 | 0.7 | 3.8 | 32.5 | 0.9 | 0.3 |
| 89864 | 20.6 | 0.8 | 53.8 | 17.7 | 251 | 70 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 443 | 48.3 | 91.0 | 12.0 | 33.6 | 5.5 | 5.0 | 0.6 | 3.5 | 31.0 | 0.6 | 0.2 |
| 89865 | 19.4 | < 0.1 | 39.0 | 16.9 | 225 | 42 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 384 | 34.5 | 68.0 | 9.2 | 27.4 | 5.0 | 4.9 | 0.6 | 3.5 | 23.0 | 0.4 | 0.2 |
| 89866 | 26.8 | < 0.1 | 45.6 | 13.2 | 117 | 94 | 2.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 355 | 57.0 | 93.7 | 12.1 | 33.1 | 5.1 | 4.5 | 0.5 | 2.7 | 30.5 | 0.6 | 0.2 |
| 89867 | 22.4 | 0.3 | 43.0 | 11.9 | 200 | 130 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 398 | 33.6 | 66.6 | 9.6 | 28.2 | 4.8 | 3.9 | 0.5 | 2.3 | 21.5 | 0.4 | 0.2 |
| 89868 | 20.5 | < 0.1 | 45.4 | 23.5 | 194 | 51 | 4.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 281 | 27.2 | 52.5 | 9.1 | 29.6 | 6.1 | 6.1 | 0.8 | 4.5 | 51.1 | 0.5 | 0.3 |
| 89869 | 18.4 | < 0.1 | 12.3 | 14.7 | 179 | 11 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 271 | 16.0 | 38.3 | 5.8 | 19.2 | 4.1 | 4.0 | 0.5 | 2.8 | 37.1 | 0.4 | 0.2 |
| 89870 | 21.6 | < 0.1 | 69.9 | 23.2 | 286 | 140 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 648 | 53.7 | 99.5 | 15.1 | 43.6 | 7.6 | 6.6 | 0.8 | 4.5 | 42.2 | 0.6 | 0.3 |
| 89871 | 21.7 | 1.6 | 50.2 | 23.7 | 225 | 142 | 20.6 | 0.3 | < 0.1 | 1 | < 0.1 | 0.2 | 539 | 58.9 | 120 | 16.5 | 47.9 | 8.3 | 7.7 | 0.9 | 4.9 | 38.9 | 0.7 | 0.3 |
| 89872 | 16.6 | < 0.1 | 49.8 | 15.3 | 299 | 150 | 2.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 553 | 37.8 | 90.2 | 10.0 | 29.8 | 5.4 | 4.7 | 0.6 | 3.2 | 27.6 | 0.3 | 0.2 |
| 89873 | 20.8 | < 0.1 | 44.3 | 13.8 | 260 | 131 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 533 | 43.4 | 103 | 11.5 | 33.6 | 5.5 | 4.6 | 0.5 | 2.8 | 37.6 | 0.3 | 0.2 |
| 89874 | 19.6 | < 0.1 | 83.7 | 13.1 | 326 | 84 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 651 | 32.9 | 81.0 | 8.7 | 25.5 | 4.4 | 3.7 | 0.4 | 2.4 | 17.0 | 0.3 | 0.2 |
| 89875 | 18.2 | < 0.1 | 79.2 | 16.3 | 279 | 126 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 661 | 44.7 | 104 | 11.6 | 34.1 | 5.9 | 5.4 | 0.6 | 3.4 | 29.7 | 0.4 | 0.2 |
| 89876 | 19.0 | < 0.1 | 50.7 | 24.8 | 196 | 26 | 4.8 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 417 | 19.0 | 53.2 | 7.4 | 26.0 | 5.8 | 6.0 | 0.8 | 4.8 | 72.8 | 0.5 | 0.3 |
| 89877 | 15.8 | < 0.1 | 57.3 | 18.8 | 227 | 89 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 504 | 47.0 | 112 | 12.7 | 38.3 | 6.8 | 6.1 | 0.7 | 3.8 | 43.7 | 0.3 | 0.3 |
| 89878 | 17.9 | < 0.1 | 46.3 | 18.8 | 226 | 50 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 450 | 38.3 | 94.5 | 10.8 | 34.1 | 6.4 | 6.1 | 0.7 | 4.1 | 34.8 | 0.2 | 0.2 |
| 89879 | 20.9 | < 0.1 | 29.5 | 21.0 | 289 | 67 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 366 | 37.1 | 94.1 | 10.9 | 34.2 | 6.4 | 6.0 | 0.8 | 4.2 | 29.1 | 0.3 | 0.3 |
| 89880 | 17.8 | < 0.1 | 51.6 | 17.2 | 242 | 136 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 531 | 64.8 | 156 | 17.1 | 49.4 | 8.1 | 6.6 | 0.8 | 3.9 | 25.1 | 0.3 | 0.2 |
| 89881 | 18.0 | < 0.1 | 20.6 | 9.7 | 196 | 184 | 55.6 | 0.9 | < 0.1 | < 1 | < 0.1 | 0.2 | 568 | 21.5 | 62.5 | 6.8 | 21.1 | 4.1 | 3.9 | 0.5 | 2.7 | 50.8 | 0.5 | 0.2 |
| 89882 | 20.6 | < 0.1 | 28.8 | 15.9 | 258 | 29 | 2.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 472 | 18.7 | 52.6 | 6.6 | 22.7 | 4.9 | 4.7 | 0.6 | 3.2 | 64.9 | 0.4 | 0.2 |
| 89883 | 15.3 | < 0.1 | 27.8 | 18.3 | 131 | 42 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 644 | 25.4 | 78.1 | 8.3 | 27.0 | 5.6 | 5.4 | 0.7 | 4.1 | 34.3 | 0.2 | 0.3 |
| 89884 | 15.8 | < 0.1 | 52.5 | 18.3 | 226 | 54 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 535 | 39.4 | 94.2 | 10.8 | 32.9 | 5.8 | 5.4 | 0.7 | 3.6 | 41.2 | 0.2 | 0.2 |
| 89885 | 19.5 | < 0.1 | 21.4 | 18.7 | 93.5 | 34 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 406 | 23.2 | 58.9 | 7.6 | 25.2 | 5.2 | 5.1 | 0.7 | 3.9 | 49.7 | 0.3 | 0.3 |
| 89886 | 20.7 | < 0.1 | 82.0 | 25.7 | 274 | 70 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 716 | 66.0 | 154 | 17.8 | 53.5 | 9.3 | 8.7 | 1.0 | 5.5 | 57.2 | 0.5 | 0.3 |
| 89887 | 20.3 | < 0.1 | 37.0 | 22.3 | 255 | 54 | 2.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 608 | 42.8 | 111 | 12.7 | 39.9 | 7.5 | 6.9 | 0.9 | 4.7 | 35.5 | 0.3 | 0.3 |
| 89888 | 16.4 | < 0.1 | 50.5 | 25.4 | 164 | 31 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 643 | 49.9 | 101 | 14.4 | 43.9 | 8.1 | 7.2 | 0.9 | 5.0 | 76.9 | 0.4 | 0.3 |
| 89889 | 17.5 | < 0.1 | 45.7 | 19.5 | 201 | 60 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 523 | 103 | 235 | 24.6 | 69.6 | 10.5 | 8.8 | 0.9 | 4.6 | 24.3 | 0.4 | 0.3 |
| 89890 | 19.3 | < 0.1 | 78.8 | 26.6 | 252 | 86 | 1.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 656 | 86.9 | 202 | 23.9 | 70.7 | 11.9 | 10.0 | 1.2 | 5.9 | 38.4 | 0.4 | 0.3 |
| 89891 | 17.8 | 0.5 | 31.4 | 6.8 | 234 | 159 | 42.5 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 590 | 16.5 | 49.1 | 5.6 | 16.7 | 2.9 | 2.5 | 0.3 | 1.7 | 29.7 | 0.1 | 0.1 |
| 89892 | 18.5 | 1.3 | 61.4 | 10.1 | 266 | 235 | 2.3 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.3 | 541 | 32.9 | 79.2 | 8.6 | 25.4 | 4.5 | 3.6 | 0.4</ | | | | |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89894 | 19.4 | 0.7 | 54.5 | 22.6 | 252 | 49 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 530 | 75.1 | 174 | 20.8 | 62.9 | 11.0 | 8.6 | 1.0 | 5.0 | 22.6 | 0.3 | 0.3 |
| 89895 | 17.9 | < 0.1 | 56.6 | 22.8 | 217 | 47 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 544 | 64.8 | 149 | 17.1 | 50.7 | 8.4 | 7.7 | 0.9 | 5.0 | 231 | 0.3 | 0.3 |
| 89896 | 19.0 | < 0.1 | 82.2 | 24.3 | 290 | 59 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 636 | 87.1 | 200 | 22.7 | 66.7 | 10.8 | 9.0 | 1.0 | 5.3 | 44.7 | 0.4 | 0.3 |
| 89897 | 21.0 | 1.4 | 77.5 | 12.8 | 288 | 31 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 672 | 33.2 | 85.5 | 9.1 | 27.3 | 4.5 | 3.8 | 0.4 | 2.5 | 38.8 | 0.2 | 0.2 |
| 89898 | 20.0 | < 0.1 | 31.2 | 18.4 | 272 | 66 | 10.4 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 390 | 31.5 | 85.2 | 9.6 | 30.3 | 5.8 | 5.6 | 0.7 | 4.0 | 35.3 | 0.6 | 0.2 |
| 89899 | 19.3 | < 0.1 | 57.5 | 22.1 | 304 | 135 | 4.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 642 | 72.3 | 163 | 19.1 | 55.6 | 8.9 | 7.8 | 0.9 | 4.6 | 28.0 | 0.5 | 0.3 |
| 89900 | 21.9 | < 0.1 | 49.0 | 22.3 | 198 | 113 | 20.6 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 577 | 105 | 247 | 27.6 | 76.1 | 10.0 | 7.4 | 0.9 | 5.3 | 15.4 | 0.8 | 0.4 |
| 89701 | 17.9 | < 0.1 | 0.8 | 3.7 | 215 | 43 | 23.0 | 0.9 | < 0.1 | 1 | < 0.1 | 0.2 | 127 | 2.6 | 9.1 | 1.2 | 4.4 | 1.1 | 1.3 | 0.2 | 1.3 | 17.3 | 0.8 | < 0.1 |
| 89702 | 17.2 | < 0.1 | 59.7 | 23.6 | 257 | 110 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 451 | 98.9 | 213 | 24.3 | 69.3 | 10.4 | 8.5 | 0.9 | 5.0 | 29.0 | 0.4 | 0.3 |
| 89703 | 18.1 | < 0.1 | 10.3 | 19.4 | 180 | 54 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 126 | 19.4 | 51.1 | 5.9 | 19.1 | 4.2 | 4.4 | 0.6 | 3.8 | 26.3 | 0.2 | 0.3 |
| 89704 | 18.1 | < 0.1 | 46.5 | 22.9 | 231 | 63 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 407 | 36.5 | 89.0 | 10.5 | 33.2 | 6.4 | 6.2 | 0.8 | 4.8 | 40.8 | 0.4 | 0.3 |
| 89705 | 19.2 | < 0.1 | 36.3 | 16.1 | 214 | 67 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 396 | 29.8 | 74.3 | 8.5 | 25.8 | 4.8 | 4.4 | 0.6 | 3.2 | 17.8 | 0.2 | 0.2 |
| 89706 | 19.3 | < 0.1 | 18.7 | 17.9 | 219 | 24 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 283 | 17.2 | 44.5 | 5.7 | 19.2 | 4.2 | 4.3 | 0.6 | 3.7 | 37.8 | 0.2 | 0.2 |
| 89707 | 18.5 | < 0.1 | 64.4 | 21.4 | 274 | 45 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 591 | 61.4 | 142 | 16.3 | 47.9 | 8.3 | 7.0 | 0.8 | 4.4 | 30.2 | 0.3 | 0.3 |
| 89708 | 12.4 | < 0.1 | 28.7 | 18.5 | 157 | 42 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 308 | 52.6 | 116 | 13.2 | 38.3 | 6.5 | 5.9 | 0.7 | 4.1 | 47.2 | 0.2 | 0.2 |
| 89709 | 17.5 | < 0.1 | 14.1 | 8.2 | 168 | 172 | 61.4 | 0.5 | < 0.1 | 2 | 0.1 | 0.3 | 454 | 20.9 | 62.3 | 7.1 | 21.8 | 4.1 | 3.5 | 0.4 | 2.5 | 45.3 | 0.8 | 0.2 |
| 89710 | 18.0 | < 0.1 | 12.6 | 18.1 | 230 | 13 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 242 | 14.9 | 42.5 | 5.3 | 18.6 | 4.1 | 4.5 | 0.6 | 3.7 | 20.5 | 0.2 | 0.2 |
| 89711 | 20.6 | < 0.1 | 1.6 | 17.7 | 275 | 67 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 96 | 11.4 | 33.9 | 4.3 | 14.9 | 3.4 | 3.6 | 0.6 | 3.5 | 6.2 | 0.2 | 0.2 |
| 89712 | 17.0 | < 0.1 | 66.6 | 17.7 | 262 | 48 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 551 | 41.6 | 101 | 10.9 | 32.4 | 5.7 | 5.4 | 0.7 | 4.0 | 25.8 | 0.3 | 0.2 |
| 89713 | 20.7 | < 0.1 | 17.5 | 21.4 | 451 | 28 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 272 | 33.2 | 88.3 | 10.9 | 35.3 | 6.8 | 6.5 | 0.9 | 4.8 | 34.3 | 0.3 | 0.3 |
| 89714 | 19.5 | < 0.1 | 49.9 | 24.3 | 241 | 48 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 494 | 36.3 | 89.6 | 11.4 | 36.4 | 7.2 | 6.7 | 0.9 | 5.1 | 77.9 | 0.3 | 0.3 |
| 89715 | 18.5 | < 0.1 | 48.5 | 21.5 | 285 | 40 | 1.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 480 | 40.4 | 97.7 | 11.7 | 36.0 | 6.7 | 6.4 | 0.8 | 4.7 | 37.1 | 0.4 | 0.3 |
| 89716 | 20.6 | < 0.1 | 7.9 | 22.7 | 543 | 22 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 137 | 17.1 | 44.3 | 5.3 | 17.5 | 3.8 | 4.3 | 0.7 | 4.3 | 59.1 | 0.3 | 0.3 |
| 89717 | 18.5 | < 0.1 | 51.3 | 18.6 | 289 | 54 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 435 | 38.8 | 108 | 11.2 | 34.6 | 6.3 | 5.9 | 0.7 | 4.0 | 32.1 | 0.3 | 0.2 |
| 89718 | 19.0 | < 0.1 | 60.3 | 13.6 | 266 | 66 | 4.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 468 | 33.5 | 80.5 | 8.9 | 26.3 | 4.5 | 4.0 | 0.5 | 2.9 | 18.0 | 0.4 | 0.2 |
| 89719 | 19.0 | < 0.1 | 42.9 | 13.9 | 243 | 98 | 18.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 539 | 30.4 | 76.1 | 8.6 | 26.3 | 4.8 | 4.4 | 0.6 | 3.3 | 35.8 | 0.8 | 0.2 |
| 89720 | 17.9 | < 0.1 | 50.4 | 17.0 | 262 | 86 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 427 | 28.6 | 72.7 | 8.4 | 25.6 | 5.0 | 4.5 | 0.6 | 3.5 | 33.3 | 0.2 | 0.2 |
| 89721 | 15.9 | < 0.1 | 27.4 | 19.7 | 218 | 75 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 440 | 38.4 | 87.6 | 10.9 | 33.6 | 6.2 | 6.0 | 0.7 | 4.3 | 33.1 | 0.3 | 0.3 |
| 89722 | 20.0 | < 0.1 | 53.9 | 26.3 | 331 | 22 | 2.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 493 | 41.7 | 103 | 12.9 | 41.3 | 8.0 | 7.5 | 1.0 | 5.5 | 46.4 | 0.3 | 0.3 |
| 89723 | 18.5 | < 0.1 | 53.0 | 18.4 | 239 | 31 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 467 | 27.7 | 68.9 | 8.3 | 26.1 | 5.1 | 5.0 | 0.7 | 3.9 | 49.4 | 0.3 | 0.3 |
| 89724 | 22.7 | < 0.1 | 26.5 | 16.7 | 159 | 52 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 226 | 12.6 | 31.7 | 3.6 | 10.9 | 2.2 | 2.7 | 0.5 | 3.3 | 7.9 | 0.3 | 0.3 |
| 89725 | 22.9 | < 0.1 | 30.2 | 14.2 | 227 | 39 | 3.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 309 | 17.0 | 42.7 | 5.0 | 16.0 | 3.2 | 3.1 | 0.4 | 2.7 | 21.2 | 0.4 | 0.2 |
| 89977 | 20.8 | 0.5 | 91.5 | 14.4 | 275 | 80 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 710 | 36.2 | 89.5 | 10.0 | 29.6 | 5.1 | 4.5 | 0.5 | 2.9 | 47.5 | 0.3 | 0.2 |
| 89978 | 20.5 | < 0.1 | 44.8 | 14.6 | 185 | 70 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 414 | 32.4 | 95.8 | 9.7 | 30.4 | 5.6 | 5.2 | 0.6 | 3.5 | 51.9 | 0.3 | 0.2 |
| 89979 | 19.8 | < 0.1 | 74.1 | 16.9 | 325 | 116 | 1.3 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 613 | 36.5 | 93.4 | 11.0 | 34.1 | 6.2 | 5.3 | 0.7 | 3.5 | 56.2 | 0.4 | 0.2 |
| 89980 | 17.8 | < 0.1 | 66.4 | 14.2 | 245 | 66 | < 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 604 | 29.3 | 70.7 | 8.8 | 27.0 | 5.0 | 4.4 | 0.6 | 3.1 | 93.5 | 0.4 | 0.2 |
| 89981 | 20.6 | < 0.1 | 4.8 | 6.3 | 123 | 183 | 37.0 | 0.5 | < 0.1 | 2 | 0.1 | 0.3 | 322 | 12.1 | 42.7 | 5.2 | 17.0 | 3.5 | 3.1 | 0.4 | 2.2 | 401 | 1.2 | 0.1 |
| 89982 | 19.1 | < 0.1 | 62.0 | 16.4 | 252 | 141 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 520 | 38.0 | 96.3 | 11.3 | 34.6 | 6.4 | 5.6 | 0.7 | 3.6 | 52.4 | 0.3 | 0.2 |
| 89983 | 21.2 | 0.1 | 72.0 | 21.1 | 290 | 134 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 590 | 43.4 | 110 | 12.9 | 39.5 | 7.2 | 6.3 | 0.8 | 4.3 | 50.4 | 0.3 | 0.3 |
| 89984 | 18.7 | < 0.1 | 68.7 | 13.8 | 232 | 92 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 543 | 24.6 | 66.0 | 7.3 | 21.8 | 4.1 | 3.8 | 0.5 | 2.9 | 5.6 | 0.3 | 0.2 |
| 89985 | 19.6 | 0.5 | 72.4 | 15.9 | 269 | 26 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 591 | 29.7 | 76.1 | 8.5 | 25.9 | 4.8 | 4.2 | 0.6 | 3.2 | 24.0 | 0.3 | 0.2 |
| 89986 | 19.0 | < 0.1 | 71.5 | 14.6 | 293 | 46 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 634 | 31.0 | 79.7 | 8.7 | 25.9 | 4.7 | 4.1 | 0.5 | 3.1 | 20.6 | 0.2 | 0.2 |
| 89987 | 23.4 | < 0.1 | 83.6 | 23.4 | 225 | 87 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 666 | 40.3 | 105 | 11.4 | 34.9 | 6.4 | 6.3 | 0.9 | 4.8 | 39.1 | 0.4 | 0.4 |
| 89988 | 22.0 | < 0.1 | 75.4 | 10.1 | 309 | 46 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 776 | 30.9 | 75.3 | 8.3 | 24.8 | 4.2 | 3.4 | 0.4 | 2.0 | 5.4 | 0.2 | 0.2 |
| 89989 | 20.5 | < 0.1 | 77.3 | 19.4 | 229 | 32 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 613 | 35.3 | 93.3 | 11.2 | 34.6 | 6.3 | 5.6 | 0.7 | 4.0 | 47.6 | 0.2 | 0.3 |
| 89990 | 18.9 | 0.6 | 22.4 | 9.7 | 212 | 222 | 20.3 | 0.8 | < 0.1 | 1 | < 0.1 | 0.3 | 581 | 13.0 | 39.3 | 4.8 | 15.7 | 3.3 | 3.1 | 0.4 | 2.5 | 40.1 | 0.9 | 0.2 |
| 89991 | 18.4 | < 0.1 | 66.3 | 14.6 | 295 | 165 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 689 | 31.5 | 81.2 | 9.2 | 27.7 | 5.1 | 4.7 | 0.6 | 3.2 | 32.6 | 0.3 | 0.2 |
| 89992 | 20.3 | < 0.1 | 60.0 | 15.7 | 211 | 135 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 649 | 30.0 | 78.7 | 9.3 | 29.6 | 5.8 | 5.4 | 0.7 | 3.5 | 32.9 | 0.3 | 0.2 |
| 89993 | 20.0 | 0.5 | 65.8 | 27.3 | 292 | 54 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 706 | 60.6 | 124 | 17.6 | 54.8 | 9.8 | 8.8 | 1.1 | 6.0 | 30.9 | 0.4 | 0.4 |
| 89994 | 20.8 | < 0.1 | 74.5 | 16.7 | 338 | 174 | 0.5 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.4 | 755 | 37.4 | 91.1 | 10.7 | 32.4 | 5.7 | 4.8 | 0.6 | 3.2 | 17.9 | 0.7 | 0.2 |
| 89995 | 18.6 | < 0.1 | 70.7 | 20.5 | 264 | 36 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 630 | 3 | | | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 89997 | 20.5 | < 0.1 | 72.8 | 17.3 | 324 | 34 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 635 | 29.0 | 77.2 | 8.9 | 27.7 | 5.1 | 4.6 | 0.6 | 3.4 | 23.9 | 0.4 | 0.2 |
| 89998 | 19.5 | < 0.1 | 62.7 | 19.4 | 286 | 15 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 593 | 36.3 | 93.3 | 10.9 | 33.3 | 6.1 | 5.5 | 0.7 | 4.0 | 43.1 | 0.4 | 0.3 |
| 89999 | 17.6 | < 0.1 | 16.3 | 7.7 | 206 | 175 | 20.0 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.3 | 515 | 8.5 | 27.2 | 3.5 | 11.3 | 2.6 | 2.5 | 0.4 | 2.2 | 16.6 | 1.0 | 0.2 |
| 90000 | 21.8 | < 0.1 | 38.4 | 19.1 | 369 | 105 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 410 | 29.3 | 80.5 | 9.5 | 31.0 | 6.2 | 5.9 | 0.8 | 4.2 | 26.9 | 0.4 | 0.2 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87501 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 13.8 | 17 | 16.5 | 1.1 | 0.130 | 0.038 | < 0.01 |
| 87502 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.10 | 11.5 | 16 | 13.9 | 0.6 | 0.224 | 0.036 | 0.01 |
| 87503 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.25 | 10.8 | 15 | 8.9 | 1.0 | 0.214 | 0.048 | 0.03 |
| 87504 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 12.2 | 18 | 12.9 | 1.5 | 0.326 | 0.076 | < 0.01 |
| 87505 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 11.6 | 16 | 8.5 | 1.1 | 0.211 | 0.059 | 0.02 |
| 87506 | 1.1 | 0.1 | 0.8 | 0.5 | < 0.001 | 0.23 | 10.2 | 12 | 11.8 | 0.8 | 0.539 | 0.063 | < 0.01 |
| 87507 | 1.4 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.28 | 13.3 | 16 | 10.6 | 1.1 | 0.256 | 0.071 | < 0.01 |
| 87508 | 1.3 | 0.2 | 0.2 | 0.1 | 0.001 | 0.34 | 14.1 | 14 | 10.2 | 1.3 | 0.300 | 0.066 | < 0.01 |
| 87509 | 1.2 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 8.5 | 17 | 4.5 | 0.7 | 0.0851 | 0.043 | < 0.01 |
| 87510 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.26 | 14.4 | 14 | 8.6 | 1.4 | 0.137 | 0.047 | < 0.01 |
| 87511 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 14.5 | 14 | 13.7 | 1.4 | 0.206 | 0.067 | < 0.01 |
| 87512 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 13.0 | 15 | 11.6 | 1.2 | 0.133 | 0.068 | 0.01 |
| 87513 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 14.3 | 14 | 14.2 | 1.4 | 0.249 | 0.061 | < 0.01 |
| 87514 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 12.6 | 13 | 11.3 | 1.1 | 0.199 | 0.054 | < 0.01 |
| 87515 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 14.0 | 10 | 8.5 | 1.2 | 0.111 | 0.038 | < 0.01 |
| 87516 | 0.8 | < 0.1 | 0.5 | 0.3 | < 0.001 | 0.23 | 13.3 | 7 | 10.8 | 0.8 | 0.331 | 0.040 | < 0.01 |
| 87517 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.19 | 10.4 | 14 | 7.3 | 1.0 | 0.234 | 0.057 | < 0.01 |
| 87518 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 6.2 | 17 | 3.8 | 0.6 | 0.0782 | 0.026 | < 0.01 |
| 87519 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 9.6 | 16 | 6.1 | 1.3 | 0.203 | 0.085 | 0.05 |
| 87520 | 1.2 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 15.2 | 17 | 7.1 | 1.2 | 0.0745 | 0.029 | 0.01 |
| 87521 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.13 | 10.4 | 16 | 10.8 | 1.0 | 0.169 | 0.055 | 0.02 |
| 87522 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 14.5 | 18 | 10.6 | 1.3 | 0.150 | 0.063 | < 0.01 |
| 87523 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.17 | 10.2 | 16 | 6.7 | 1.0 | 0.104 | 0.046 | 0.02 |
| 87524 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 11.3 | 15 | 8.7 | 1.0 | 0.167 | 0.031 | 0.02 |
| 87525 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 13.0 | 14 | 11.3 | 2.2 | 0.204 | 0.057 | < 0.01 |
| 87526 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.32 | 14.1 | 13 | 10.3 | 1.2 | 0.167 | 0.058 | < 0.01 |
| 87527 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 13.1 | 12 | 10.7 | 1.1 | 0.367 | 0.045 | < 0.01 |
| 87528 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 10.8 | 14 | 7.1 | 1.4 | 0.0629 | 0.042 | 0.03 |
| 87529 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 11.7 | 16 | 7.3 | 1.2 | 0.103 | 0.059 | < 0.01 |
| 87530 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.10 | 9.0 | 21 | 9.9 | 1.7 | 0.102 | 0.047 | 0.01 |
| 87531 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.18 | 10.5 | 19 | 10.3 | 1.1 | 0.131 | 0.053 | < 0.01 |
| 87532 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.25 | 13.0 | 17 | 8.8 | 1.2 | 0.166 | 0.062 | < 0.01 |
| 87533 | 1.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.11 | 11.6 | 16 | 11.1 | 1.3 | 0.221 | 0.054 | 0.03 |
| 87534 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 11.3 | 18 | 9.0 | 1.1 | 0.329 | 0.072 | 0.01 |
| 87535 | 1.1 | 0.1 | 0.7 | 0.3 | < 0.001 | < 0.05 | 11.3 | 20 | 6.0 | 0.6 | 0.248 | 0.020 | < 0.01 |
| 87536 | 1.2 | 0.2 | 0.3 | 0.1 | 0.002 | 0.22 | 14.1 | 21 | 5.7 | 0.9 | 0.0949 | 0.030 | < 0.01 |
| 87537 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 14.1 | 21 | 4.3 | 0.9 | 0.0656 | 0.029 | < 0.01 |
| 87538 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.32 | 12.5 | 17 | 5.5 | 1.3 | 0.131 | 0.051 | < 0.01 |
| 87539 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 11.7 | 17 | 8.0 | 1.9 | 0.149 | 0.055 | < 0.01 |
| 87540 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.21 | 11.2 | 26 | 11.8 | 1.1 | 0.187 | 0.050 | 0.01 |
| 87541 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.24 | 14.2 | 22 | 7.6 | 1.2 | 0.149 | 0.031 | < 0.01 |
| 87542 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 14.6 | 15 | 9.6 | 1.7 | 0.217 | 0.033 | < 0.01 |
| 87543 | 2.4 | 0.4 | < 0.1 | 0.3 | 0.002 | 0.38 | 10.5 | 20 | 9.7 | 7.8 | 0.378 | 0.203 | 0.12 |
| 87544 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.28 | 11.9 | 25 | 10.5 | 1.8 | 0.145 | 0.054 | 0.03 |
| 87545 | 1.0 | 0.1 | 0.9 | 0.6 | 0.002 | 0.21 | 11.8 | 17 | 8.2 | 0.9 | 0.581 | 0.012 | < 0.01 |
| 87546 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 13.4 | 17 | 5.5 | 1.3 | 0.188 | 0.014 | < 0.01 |
| 87547 | 2.3 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.11 | 4.7 | 35 | 8.4 | 1.1 | 0.142 | 0.060 | 0.02 |
| 87548 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 14.0 | 17 | 5.3 | 1.5 | 0.115 | 0.013 | < 0.01 |
| 87549 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.33 | 15.2 | 19 | 10.9 | 2.6 | 0.176 | 0.057 | 0.04 |
| 87550 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.28 | 14.8 | 17 | 6.7 | 1.5 | 0.0874 | 0.028 | 0.02 |
| 87551 | 2.1 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.32 | 11.8 | 28 | 10.9 | 1.5 | 0.399 | 0.073 | 0.01 |
| 87552 | 2.7 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.07 | 9.5 | 63 | 6.6 | 1.4 | 0.275 | 0.053 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87553 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.003 | < 0.05 | 3.8 | 53 | 4.6 | 2.6 | 0.233 | 0.090 | 0.02 |
| 87554 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.23 | 10.3 | 33 | 7.9 | 1.3 | 0.140 | 0.046 | < 0.01 |
| 87555 | 1.0 | 0.1 | 1.0 | 0.7 | < 0.001 | 0.27 | 10.8 | 16 | 6.0 | 0.8 | 0.592 | 0.028 | < 0.01 |
| 87556 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.31 | 10.9 | 21 | 6.8 | 2.1 | 0.245 | 0.038 | 0.04 |
| 87557 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 9.5 | 22 | 3.3 | 1.1 | 0.126 | 0.016 | 0.01 |
| 87558 | 1.5 | 0.2 | 0.1 | 0.1 | 0.005 | 0.37 | 10.3 | 15 | 7.0 | 3.9 | 0.288 | 0.072 | 0.09 |
| 87559 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 14.2 | 15 | 8.1 | 1.4 | 0.152 | 0.043 | < 0.01 |
| 87560 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 11.2 | 18 | 9.0 | 1.4 | 0.154 | 0.052 | < 0.01 |
| 87561 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.33 | 13.3 | 14 | 6.6 | 1.3 | 0.0984 | 0.028 | < 0.01 |
| 87562 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 8.3 | 40 | 6.3 | 0.6 | 0.369 | 0.030 | < 0.01 |
| 87563 | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.12 | 8.4 | 35 | 4.9 | 1.6 | 0.132 | 0.078 | 0.04 |
| 87564 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.33 | 15.8 | 16 | 6.8 | 1.5 | 0.0846 | 0.025 | < 0.01 |
| 87565 | 0.9 | 0.1 | 1.4 | 0.9 | 0.003 | 0.32 | 11.0 | 9 | 7.3 | 1.0 | 0.560 | 0.048 | 0.01 |
| 87566 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 10.7 | 18 | 5.3 | 1.0 | 0.202 | 0.031 | < 0.01 |
| 87567 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.30 | 11.8 | 16 | 3.7 | 1.1 | 0.0949 | 0.020 | < 0.01 |
| 87568 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.33 | 12.3 | 18 | 8.6 | 9.2 | 0.0763 | 0.034 | < 0.01 |
| 87569 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 11.2 | 19 | 9.1 | 1.3 | 0.126 | 0.065 | < 0.01 |
| 87570 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.33 | 12.0 | 17 | 9.2 | 1.2 | 0.118 | 0.069 | < 0.01 |
| 87571 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.40 | 12.9 | 18 | 18.1 | 1.4 | 0.311 | 0.065 | < 0.01 |
| 87572 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 13.3 | 16 | 8.4 | 1.2 | 0.117 | 0.062 | < 0.01 |
| 87573 | 0.9 | 0.1 | 0.6 | 0.6 | 0.002 | 0.22 | 11.6 | 15 | 11.2 | 0.8 | 0.460 | 0.069 | < 0.01 |
| 87574 | 1.7 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.22 | 10.4 | 20 | 9.4 | 1.8 | 0.278 | 0.066 | 0.01 |
| 87575 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 13.2 | 17 | 11.3 | 2.3 | 0.298 | 0.121 | 0.06 |
| 87576 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.24 | 11.9 | 24 | 9.8 | 2.1 | 0.104 | 0.057 | 0.03 |
| 87577 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.33 | 15.5 | 10 | 10.2 | 1.2 | 0.0992 | 0.012 | < 0.01 |
| 87578 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.09 | 9.7 | 31 | 15.7 | 1.0 | 0.531 | 0.088 | < 0.01 |
| 87579 | 1.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 14.5 | 20 | 11.9 | 1.6 | 0.169 | 0.098 | < 0.01 |
| 87580 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 15.2 | 18 | 12.0 | 1.6 | 0.177 | 0.092 | < 0.01 |
| 87581 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.20 | 12.2 | 13 | 9.4 | 3.4 | 0.178 | 0.076 | 0.02 |
| 87582 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 13.5 | 22 | 12.9 | 1.8 | 0.260 | 0.073 | < 0.01 |
| 87583 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.12 | 12.4 | 19 | 10.9 | 1.2 | 0.618 | 0.009 | < 0.01 |
| 87584 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 11.5 | 18 | 10.4 | 1.4 | 0.239 | 0.093 | < 0.01 |
| 87585 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 13.2 | 15 | 9.3 | 1.3 | 0.186 | 0.058 | < 0.01 |
| 87586 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.28 | 17.2 | 9 | 11.3 | 1.2 | 0.186 | 0.031 | 0.01 |
| 87587 | 3.1 | 0.4 | < 0.1 | < 0.1 | 0.002 | < 0.05 | 9.5 | 40 | 11.6 | 1.2 | 0.329 | 0.043 | 0.03 |
| 87588 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 13.5 | 13 | 7.9 | 1.2 | 0.0773 | 0.036 | 0.01 |
| 87589 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 13.8 | 13 | 8.0 | 1.1 | 0.0827 | 0.031 | < 0.01 |
| 87590 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.27 | 15.6 | 11 | 14.4 | 1.2 | 0.0838 | 0.029 | < 0.01 |
| 87591 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | < 0.05 | 4.1 | 33 | 4.8 | 0.4 | 0.400 | 0.039 | 0.02 |
| 87592 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 13.4 | 16 | 10.9 | 1.3 | 0.213 | 0.041 | 0.01 |
| 87593 | 9.2 | 1.2 | < 0.1 | 2.3 | 0.007 | 0.17 | 29.0 | 14 | 142 | 13.4 | 0.369 | 0.336 | < 0.01 |
| 87594 | 1.0 | 0.1 | 0.7 | 0.5 | 0.001 | 0.25 | 12.8 | 10 | 13.2 | 1.0 | 0.473 | 0.054 | < 0.01 |
| 87595 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 14.9 | 10 | 9.1 | 1.2 | 0.280 | 0.056 | < 0.01 |
| 87596 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 17.2 | 11 | 7.0 | 1.3 | 0.333 | 0.023 | 0.01 |
| 87597 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 14.9 | 11 | 7.8 | 1.2 | 0.207 | 0.012 | < 0.01 |
| 87598 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.42 | 16.9 | 13 | 14.4 | 1.3 | 0.210 | 0.061 | < 0.01 |
| 87599 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 15.2 | 11 | 11.5 | 1.4 | 0.144 | 0.035 | < 0.01 |
| 87600 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.35 | 17.0 | 12 | 14.7 | 1.2 | 0.0866 | 0.031 | < 0.01 |
| 87801 | 2.4 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.23 | 19.4 | 23 | 30.3 | 2.5 | 0.396 | 0.220 | 0.03 |
| 87802 | 3.0 | 0.4 | < 0.1 | < 0.1 | 0.003 | 0.33 | 37.6 | 26 | 33.2 | 3.5 | 0.306 | 0.329 | 0.04 |
| 87803 | 2.6 | 0.3 | 7.9 | 1.5 | 0.002 | 0.37 | 25.2 | 17 | 18.2 | 2.8 | 1.54 | 0.347 | 0.02 |
| 87804 | 3.1 | 0.4 | 1.1 | 0.1 | 0.004 | 0.90 | 23.4 | 24 | 33.4 | 4.7 | 0.232 | 0.212 | 0.02 |

Activation Laboratories Ltd. Report: A10-5388

| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87805 | 1.6 | 0.2 | 0.4 | < 0.1 | < 0.001 | 0.22 | 13.7 | 18 | 16.1 | 1.8 | 0.236 | 0.159 | 0.02 |
| 87806 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 13.2 | 17 | 16.4 | 2.3 | 0.220 | 0.181 | 0.03 |
| 87807 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 13.2 | 19 | 19.0 | 2.2 | 0.266 | 0.139 | < 0.01 |
| 87808 | 2.0 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.31 | 17.0 | 20 | 20.4 | 1.5 | 0.443 | 0.179 | < 0.01 |
| 87809 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.18 | 9.5 | 21 | 12.3 | 0.9 | 0.285 | 0.105 | 0.03 |
| 87810 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.45 | 13.5 | 15 | 12.2 | 4.7 | 0.214 | 0.077 | < 0.01 |
| 87811 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.37 | 12.7 | 17 | 12.3 | 1.3 | 0.240 | 0.091 | < 0.01 |
| 87812 | 1.2 | 0.2 | 2.3 | 0.8 | 0.003 | 0.27 | 10.0 | 11 | 7.1 | 0.7 | 1.08 | 0.118 | 0.01 |
| 87813 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.28 | 10.9 | 20 | 12.7 | 1.4 | 0.191 | 0.128 | < 0.01 |
| 87814 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 12.2 | 21 | 17.3 | 1.8 | 0.144 | 0.137 | < 0.01 |
| 87815 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 10.7 | 20 | 10.4 | 1.4 | 0.159 | 0.100 | < 0.01 |
| 87816 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 10.1 | 21 | 12.4 | 1.3 | 0.161 | 0.121 | < 0.01 |
| 87817 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.28 | 9.8 | 22 | 12.1 | 1.2 | 0.204 | 0.111 | < 0.01 |
| 87818 | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 10.0 | 24 | 12.7 | 1.3 | 0.251 | 0.125 | < 0.01 |
| 87819 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.44 | 11.2 | 19 | 10.2 | 1.4 | 0.288 | 0.071 | < 0.01 |
| 87820 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 11.1 | 29 | 9.9 | 1.4 | 0.247 | 0.095 | < 0.01 |
| 87821 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 12.7 | 23 | 11.4 | 1.3 | 0.601 | 0.106 | < 0.01 |
| 87822 | 1.9 | 0.3 | 3.3 | 0.8 | 0.003 | 0.33 | 13.2 | 17 | 7.5 | 1.5 | 0.792 | 0.180 | 0.01 |
| 87823 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.41 | 12.3 | 21 | 10.5 | 1.9 | 0.233 | 0.096 | 0.02 |
| 87824 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.29 | 12.1 | 27 | 11.9 | 1.6 | 0.164 | 0.117 | < 0.01 |
| 87825 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 12.0 | 19 | 10.8 | 1.5 | 0.180 | 0.070 | < 0.01 |
| 87826 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 10.5 | 28 | 8.7 | 1.2 | 0.198 | 0.082 | < 0.01 |
| 87827 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.35 | 10.9 | 20 | 8.8 | 1.2 | 0.201 | 0.072 | < 0.01 |
| 87828 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.22 | 10.5 | 28 | 9.3 | 1.1 | 0.223 | 0.079 | 0.01 |
| 87829 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.40 | 12.5 | 16 | 9.0 | 1.5 | 0.269 | 0.063 | 0.01 |
| 87830 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.33 | 12.1 | 19 | 8.7 | 1.0 | 0.148 | 0.060 | < 0.01 |
| 87831 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 11.2 | 19 | 8.1 | 1.0 | 0.211 | 0.058 | < 0.01 |
| 87832 | 1.1 | 0.2 | 0.6 | 0.4 | 0.002 | 0.30 | 10.1 | 17 | 10.5 | 1.0 | 0.242 | 0.052 | < 0.01 |
| 87833 | 1.2 | 0.2 | 0.7 | 0.4 | < 0.001 | 0.28 | 10.6 | 17 | 9.6 | 1.0 | 0.0914 | 0.044 | < 0.01 |
| 87834 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.13 | 11.5 | 25 | 9.3 | 0.7 | 0.165 | 0.042 | 0.02 |
| 87835 | 1.5 | 0.2 | 0.7 | 0.2 | 0.002 | < 0.05 | 6.2 | 16 | 5.6 | 1.4 | 0.145 | 0.027 | 0.03 |
| 87836 | 1.0 | 0.1 | 0.4 | < 0.1 | < 0.001 | < 0.05 | 4.9 | 16 | 5.0 | 0.4 | 0.150 | 0.029 | 0.01 |
| 87837 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.12 | 12.8 | 26 | 7.5 | 0.9 | 0.268 | 0.081 | < 0.01 |
| 87838 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.23 | 9.2 | 15 | 7.5 | 1.2 | 0.122 | 0.065 | 0.03 |
| 87839 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.14 | 8.3 | 18 | 11.6 | 2.4 | 0.355 | 0.134 | 0.06 |
| 87840 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.12 | 9.3 | 20 | 11.8 | 1.1 | 0.467 | 0.131 | 0.01 |
| 87841 | 2.1 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.16 | 13.1 | 17 | 13.6 | 1.1 | 0.300 | 0.144 | 0.01 |
| 87842 | 1.5 | 0.2 | 0.3 | < 0.1 | < 0.001 | 0.12 | 9.9 | 18 | 9.6 | 1.2 | 0.377 | 0.083 | < 0.01 |
| 87843 | 2.1 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.13 | 13.0 | 25 | 19.6 | 1.9 | 0.231 | 0.159 | 0.01 |
| 87844 | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.12 | 12.6 | 21 | 11.4 | 3.3 | 0.143 | 0.125 | 0.03 |
| 87845 | 1.0 | 0.1 | 0.3 | < 0.1 | < 0.001 | < 0.05 | 6.7 | 19 | 3.9 | 0.8 | 0.101 | 0.023 | < 0.01 |
| 87846 | 6.4 | 0.9 | 0.3 | 0.9 | 0.007 | 0.81 | 22.6 | 40 | 68.0 | 16.5 | 0.491 | 0.560 | 0.28 |
| 87847 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.17 | 11.3 | 24 | 20.8 | 1.7 | 0.262 | 0.184 | 0.01 |
| 87848 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.19 | 12.7 | 26 | 19.5 | 2.0 | 0.229 | 0.182 | 0.02 |
| 87849 | 1.4 | 0.2 | 1.6 | 0.4 | 0.001 | 0.25 | 13.1 | 17 | 13.0 | 1.2 | 0.149 | 0.094 | < 0.01 |
| 87850 | 0.8 | < 0.1 | 0.3 | < 0.1 | < 0.001 | < 0.05 | 8.8 | 8 | 7.0 | 1.0 | 0.563 | 0.060 | 0.01 |
| 87851 | 0.9 | < 0.1 | < 0.1 | < 0.1 | 0.002 | 0.10 | 11.2 | 11 | 6.5 | 0.9 | 0.517 | 0.086 | 0.02 |
| 87852 | 3.5 | 0.4 | 0.4 | < 0.1 | < 0.001 | 0.33 | 42.6 | 26 | 33.0 | 1.8 | 0.454 | 0.212 | 0.05 |
| 87853 | 2.1 | 0.3 | 0.9 | 0.3 | 0.003 | 0.38 | 17.5 | 23 | 18.8 | 2.2 | 0.500 | 0.214 | 0.01 |
| 87854 | 1.9 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.37 | 17.2 | 21 | 16.0 | 3.1 | 0.180 | 0.185 | 0.03 |
| 87855 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.27 | 11.3 | 16 | 12.6 | 9.1 | 0.148 | 0.088 | 0.10 |
| 87856 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.11 | 11.8 | 15 | 15.2 | 2.9 | 0.131 | 0.146 | 0.05 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87857 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.25 | 11.4 | 30 | 19.9 | 3.8 | 0.240 | 0.201 | 0.03 |
| 87858 | 2.1 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 11.8 | 23 | 19.0 | 11.9 | 0.518 | 0.252 | 0.09 |
| 87859 | 2.6 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.26 | 15.8 | 27 | 23.0 | 2.3 | 0.194 | 0.197 | < 0.01 |
| 87860 | 27.8 | 3.9 | 0.1 | < 0.1 | 0.028 | 0.31 | 71.2 | 54 | > 200 | 51.0 | 0.0149 | 3.62 | 0.03 |
| 87861 | 8.0 | 1.0 | 0.1 | 1.8 | 0.005 | 0.15 | 102 | 42 | 59.1 | 0.5 | 0.125 | 0.294 | 0.02 |
| 87862 | 2.8 | 0.4 | 0.2 | < 0.1 | < 0.001 | 0.12 | 20.5 | 34 | 39.7 | 2.6 | 0.641 | 0.234 | 0.05 |
| 87863 | 8.2 | 1.1 | 2.1 | 0.6 | 0.005 | 0.95 | 34.1 | 35 | 55.2 | 7.0 | 0.556 | 0.419 | 0.04 |
| 87864 | 1.3 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.10 | 10.5 | 11 | 12.2 | 2.4 | 0.195 | 0.122 | 0.02 |
| 87865 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 12.7 | 19 | 12.6 | 1.7 | 0.133 | 0.058 | < 0.01 |
| 87866 | 2.5 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.15 | 25.2 | 18 | 18.7 | 2.1 | 0.230 | 0.167 | < 0.01 |
| 87867 | 1.3 | 0.2 | 1.1 | 0.2 | 0.003 | 0.20 | 12.0 | 16 | 10.8 | 1.2 | 0.208 | 0.084 | 0.01 |
| 87868 | 1.1 | 0.1 | 0.8 | 0.2 | 0.001 | 0.22 | 11.3 | 16 | 8.8 | 1.0 | 0.207 | 0.062 | < 0.01 |
| 87869 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.26 | 11.9 | 10 | 5.4 | 0.7 | 0.192 | 0.058 | < 0.01 |
| 87870 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 12.6 | 12 | 7.0 | 1.1 | 0.192 | 0.024 | < 0.01 |
| 87871 | 1.0 | 0.1 | 0.2 | < 0.1 | 0.001 | 0.17 | 9.6 | 15 | 5.7 | 0.7 | 0.236 | 0.046 | < 0.01 |
| 87872 | 1.0 | 0.1 | 0.9 | 0.3 | 0.001 | 0.17 | 7.8 | 15 | 4.3 | 0.6 | 0.183 | 0.050 | < 0.01 |
| 87873 | 1.1 | 0.2 | 0.6 | 0.3 | 0.001 | 0.24 | 9.5 | 15 | 4.9 | 0.7 | 0.108 | 0.053 | 0.02 |
| 87874 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.38 | 9.2 | 16 | 8.2 | 1.5 | 0.178 | 0.067 | 0.06 |
| 87875 | 1.6 | 0.2 | 0.2 | < 0.1 | 0.002 | 0.22 | 11.7 | 19 | 6.7 | 0.8 | 0.144 | 0.046 | 0.01 |
| 87876 | 0.6 | < 0.1 | < 0.1 | < 0.1 | 0.001 | 0.08 | 4.9 | 9 | 3.4 | 0.3 | 0.206 | 0.036 | < 0.01 |
| 87877 | 1.1 | 0.1 | 0.8 | 0.3 | 0.003 | 0.24 | 10.2 | 16 | 6.1 | 0.7 | 0.219 | 0.051 | < 0.01 |
| 87878 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.41 | 12.9 | 13 | 9.2 | 1.2 | 0.271 | 0.051 | < 0.01 |
| 87879 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 11.7 | 12 | 6.9 | 0.9 | 0.149 | 0.049 | < 0.01 |
| 87880 | 0.9 | 0.1 | 0.6 | 0.4 | 0.001 | 0.37 | 12.1 | 13 | 6.9 | 1.0 | 0.211 | 0.029 | < 0.01 |
| 87881 | 1.0 | 0.1 | 0.1 | < 0.1 | 0.002 | 0.27 | 11.1 | 16 | 4.1 | 0.9 | 0.121 | 0.038 | < 0.01 |
| 87882 | 0.9 | 0.1 | 0.3 | 0.2 | < 0.001 | 0.35 | 12.8 | 13 | 7.2 | 1.0 | 0.0868 | 0.049 | < 0.01 |
| 87883 | 1.3 | 0.2 | 0.4 | 0.3 | < 0.001 | 0.36 | 13.5 | 16 | 9.9 | 1.0 | 0.145 | 0.059 | < 0.01 |
| 87884 | 1.3 | 0.2 | 0.2 | 0.1 | 0.001 | 0.40 | 13.0 | 15 | 9.0 | 1.2 | 0.114 | 0.053 | < 0.01 |
| 87885 | 1.2 | 0.1 | 0.1 | 0.1 | < 0.001 | 0.41 | 12.8 | 15 | 9.9 | 1.2 | 0.205 | 0.058 | < 0.01 |
| 87886 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.30 | 11.3 | 18 | 9.0 | 0.9 | 0.256 | 0.054 | < 0.01 |
| 87887 | 1.1 | 0.1 | 0.6 | 0.4 | < 0.001 | 0.27 | 10.6 | 17 | 6.1 | 0.9 | 0.139 | 0.045 | < 0.01 |
| 87888 | 1.1 | 0.1 | 0.2 | 0.1 | 0.002 | 0.32 | 11.2 | 17 | 6.9 | 1.1 | 0.234 | 0.050 | < 0.01 |
| 87889 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 11.8 | 15 | 7.4 | 1.1 | 0.239 | 0.063 | < 0.01 |
| 87890 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.37 | 11.2 | 13 | 6.4 | 1.1 | 0.408 | 0.061 | < 0.01 |
| 87891 | 1.3 | 0.2 | 0.5 | 0.5 | 0.001 | 0.35 | 9.9 | 16 | 6.3 | 1.3 | 0.403 | 0.072 | 0.03 |
| 87892 | 1.4 | 0.2 | 0.6 | 0.4 | 0.001 | 0.29 | 11.8 | 16 | 7.7 | 1.1 | 0.180 | 0.068 | 0.02 |
| 87893 | 1.0 | 0.1 | 0.4 | 0.3 | < 0.001 | 0.29 | 13.3 | 16 | 5.1 | 1.0 | 0.102 | 0.032 | < 0.01 |
| 87894 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 10.5 | 22 | 6.2 | 0.9 | 0.150 | 0.047 | < 0.01 |
| 87895 | 1.5 | 0.2 | 0.2 | < 0.1 | 0.001 | 0.31 | 11.8 | 20 | 7.5 | 1.0 | 0.250 | 0.058 | < 0.01 |
| 87896 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.36 | 11.9 | 16 | 4.9 | 0.9 | 0.123 | 0.047 | < 0.01 |
| 87897 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.37 | 11.6 | 17 | 7.9 | 1.2 | 0.134 | 0.061 | < 0.01 |
| 87898 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.38 | 10.7 | 18 | 7.5 | 1.0 | 0.256 | 0.054 | < 0.01 |
| 87899 | 1.2 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.25 | 9.6 | 12 | 4.6 | 0.9 | 0.604 | 0.053 | < 0.01 |
| 87900 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.31 | 10.7 | 16 | 5.4 | 1.0 | 0.206 | 0.060 | < 0.01 |
| 87901 | 1.2 | 0.2 | 0.2 | 0.2 | 0.002 | 0.35 | 13.4 | 12 | 9.2 | 1.2 | 0.247 | 0.062 | < 0.01 |
| 87902 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.39 | 14.4 | 13 | 14.5 | 1.2 | 0.183 | 0.063 | < 0.01 |
| 87903 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.32 | 14.4 | 13 | 8.1 | 1.7 | 0.0687 | 0.017 | < 0.01 |
| 87904 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.30 | 13.6 | 15 | 15.3 | 1.2 | 0.204 | 0.044 | < 0.01 |
| 87905 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.30 | 13.9 | 14 | 13.7 | 1.3 | 0.157 | 0.055 | < 0.01 |
| 87906 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 15.1 | 12 | 10.3 | 1.2 | 0.183 | 0.064 | < 0.01 |
| 87907 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.32 | 14.6 | 13 | 11.9 | 1.2 | 0.194 | 0.063 | < 0.01 |
| 87908 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.26 | 13.7 | 7 | 8.6 | 0.7 | 0.413 | 0.045 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87909 | 1.2 | 0.2 | 0.4 | 0.3 | 0.002 | 0.25 | 12.8 | 12 | 9.0 | 1.0 | 0.359 | 0.054 | < 0.01 |
| 87910 | 1.2 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.26 | 12.9 | 11 | 8.8 | 1.3 | 0.344 | 0.071 | 0.03 |
| 87911 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.30 | 10.4 | 12 | 6.4 | 1.2 | 0.193 | 0.094 | 0.08 |
| 87912 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.19 | 10.8 | 20 | 7.8 | 1.0 | 0.108 | 0.062 | 0.02 |
| 87913 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 11.4 | 18 | 7.3 | 0.9 | 0.0808 | 0.031 | 0.01 |
| 87914 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.18 | 11.1 | 16 | 7.8 | 0.9 | 0.0911 | 0.041 | < 0.01 |
| 87915 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.31 | 15.2 | 13 | 10.6 | 1.6 | 0.212 | 0.061 | 0.01 |
| 87916 | 1.8 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.32 | 15.7 | 16 | 27.1 | 2.8 | 0.390 | 0.127 | 0.08 |
| 87917 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 13.3 | 11 | 13.9 | 1.6 | 0.240 | 0.089 | 0.04 |
| 87918 | 1.5 | 0.2 | 0.9 | 0.7 | 0.001 | 0.17 | 11.0 | 14 | 11.9 | 1.5 | 0.476 | 0.115 | 0.07 |
| 87919 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.19 | 12.6 | 17 | 9.7 | 1.1 | 0.168 | 0.020 | 0.01 |
| 87920 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.15 | 10.5 | 19 | 7.3 | 1.0 | 0.147 | 0.052 | < 0.01 |
| 87921 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.16 | 10.4 | 22 | 7.0 | 1.1 | 0.0890 | 0.053 | < 0.01 |
| 87922 | 1.7 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.15 | 8.7 | 22 | 11.0 | 1.2 | 0.293 | 0.086 | 0.04 |
| 87923 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.17 | 10.9 | 25 | 9.5 | 1.0 | 0.385 | 0.049 | 0.01 |
| 87924 | 1.8 | 0.2 | 0.5 | 0.1 | 0.004 | 0.16 | 11.2 | 26 | 10.3 | 1.1 | 0.593 | 0.080 | < 0.01 |
| 87925 | 1.8 | 0.2 | 0.6 | < 0.1 | 0.001 | 0.08 | 10.2 | 29 | 8.2 | 0.9 | 0.622 | 0.069 | 0.01 |
| 87926 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.11 | 7.8 | 20 | 5.8 | 1.3 | 0.329 | 0.084 | 0.07 |
| 87927 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.16 | 11.6 | 19 | 8.1 | 1.1 | 0.167 | 0.065 | 0.02 |
| 87928 | 1.9 | 0.2 | 0.8 | 0.2 | 0.003 | < 0.05 | 9.8 | 17 | 6.0 | 0.9 | 0.396 | 0.023 | < 0.01 |
| 87929 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.12 | 11.8 | 20 | 7.2 | 1.0 | 0.213 | 0.063 | 0.01 |
| 87930 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.17 | 10.8 | 19 | 6.3 | 1.0 | 0.152 | 0.042 | 0.02 |
| 87931 | 1.8 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 8.5 | 32 | 6.9 | 0.7 | 0.256 | 0.057 | < 0.01 |
| 87932 | 2.3 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.18 | 11.8 | 19 | 8.3 | 1.2 | 0.118 | 0.063 | < 0.01 |
| 87933 | 2.1 | 0.3 | < 0.1 | 1.4 | 0.003 | 0.13 | 11.8 | 19 | 9.3 | 1.1 | 0.196 | 0.047 | < 0.01 |
| 87934 | 1.7 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.11 | 13.2 | 25 | 7.6 | 0.9 | 0.460 | 0.034 | 0.01 |
| 87935 | 1.2 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.23 | 15.6 | 10 | 8.0 | 1.3 | 0.132 | 0.053 | < 0.01 |
| 87936 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.35 | 14.4 | 12 | 9.2 | 1.4 | 0.193 | 0.053 | < 0.01 |
| 87937 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.33 | 14.2 | 15 | 4.9 | 2.3 | 0.238 | 0.060 | 0.03 |
| 87938 | 2.8 | 0.4 | < 0.1 | < 0.1 | 0.004 | 0.26 | 11.2 | 18 | 10.3 | 2.4 | 0.237 | 0.144 | < 0.01 |
| 87939 | 3.0 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.66 | 11.9 | 23 | 9.3 | 1.5 | 0.108 | 0.032 | < 0.01 |
| 87940 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.42 | 13.3 | 16 | 15.0 | 1.7 | 0.194 | 0.113 | 0.03 |
| 87941 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 15.5 | 12 | 9.7 | 1.1 | 0.129 | 0.045 | < 0.01 |
| 87942 | 1.0 | 0.1 | 0.3 | 0.3 | 0.001 | 0.44 | 15.3 | 12 | 9.3 | 1.1 | 0.119 | 0.014 | < 0.01 |
| 87943 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 14.2 | 10 | 7.8 | 1.0 | 0.232 | 0.060 | < 0.01 |
| 87944 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.41 | 15.3 | 12 | 10.2 | 1.2 | 0.101 | 0.061 | < 0.01 |
| 87945 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.47 | 16.3 | 10 | 11.5 | 1.2 | 0.180 | 0.028 | < 0.01 |
| 87946 | 1.4 | 0.2 | 0.3 | 0.5 | 0.003 | 0.38 | 11.6 | 12 | 10.6 | 4.2 | 0.350 | 0.174 | 0.11 |
| 87947 | 0.9 | 0.1 | 0.4 | 0.2 | 0.003 | 0.37 | 15.0 | 7 | 7.2 | 0.7 | 0.284 | 0.026 | < 0.01 |
| 87948 | 0.9 | 0.1 | 0.1 | < 0.1 | 0.002 | 0.38 | 14.1 | 10 | 6.3 | 1.0 | 0.335 | 0.037 | 0.01 |
| 87949 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.40 | 15.1 | 11 | 7.9 | 1.6 | 0.216 | 0.035 | 0.02 |
| 87950 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 14.4 | 12 | 11.2 | 1.4 | 0.204 | 0.057 | 0.01 |
| 87951 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.39 | 15.6 | 10 | 10.8 | 1.1 | 0.169 | 0.041 | < 0.01 |
| 87952 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.44 | 16.8 | 10 | 11.0 | 1.1 | 0.200 | 0.050 | < 0.01 |
| 87953 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.25 | 10.3 | 14 | 9.8 | 1.5 | 0.322 | 0.077 | 0.03 |
| 87954 | 2.5 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.33 | 15.2 | 18 | 14.3 | 2.8 | 0.149 | 0.064 | 0.04 |
| 87955 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.30 | 48.9 | 13 | 8.7 | 1.0 | 0.162 | 0.033 | 0.01 |
| 87956 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.13 | 11.9 | 23 | 11.4 | 1.2 | 0.205 | 0.013 | < 0.01 |
| 87957 | 1.2 | 0.2 | 0.6 | 0.2 | < 0.001 | 0.20 | 10.8 | 15 | 9.1 | 1.1 | 0.375 | 0.059 | 0.01 |
| 87958 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 16.9 | 18 | 10.6 | 2.2 | 0.252 | 0.064 | 0.01 |
| 87959 | 1.5 | 0.2 | 0.4 | < 0.1 | 0.001 | 0.18 | 6.9 | 16 | 4.2 | 2.6 | 0.287 | 0.188 | 0.06 |
| 87960 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.19 | 25.9 | 12 | 6.4 | 2.5 | 0.173 | 0.088 | 0.12 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87961 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.33 | 18.1 | 19 | 13.8 | 2.0 | 0.319 | 0.131 | 0.04 |
| 87962 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.36 | 13.7 | 11 | 9.3 | 1.5 | 0.201 | 0.095 | 0.05 |
| 87963 | 1.2 | 0.2 | 0.5 | 0.2 | 0.003 | 0.32 | 13.5 | 13 | 14.5 | 1.2 | 0.147 | 0.034 | < 0.01 |
| 87964 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 13.5 | 12 | 11.8 | 1.1 | 0.175 | 0.054 | < 0.01 |
| 87965 | 1.8 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.11 | 9.3 | 28 | 9.1 | 1.1 | 0.220 | 0.053 | 0.02 |
| 87966 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.30 | 15.8 | 7 | 6.9 | 0.8 | 0.152 | 0.019 | < 0.01 |
| 87967 | 1.1 | 0.2 | 0.3 | 0.1 | 0.005 | 0.30 | 15.3 | 11 | 11.6 | 1.3 | 0.281 | 0.060 | < 0.01 |
| 87968 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.33 | 16.6 | 10 | 7.5 | 1.1 | 0.327 | 0.041 | 0.01 |
| 87969 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.31 | 15.6 | 11 | 9.9 | 1.4 | 0.186 | 0.047 | 0.02 |
| 87970 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.39 | 17.7 | 10 | 13.2 | 1.3 | 0.205 | 0.055 | < 0.01 |
| 87971 | 1.1 | 0.2 | 0.4 | 0.3 | 0.001 | 0.19 | 48.8 | 12 | 11.8 | 1.2 | 0.119 | 0.039 | 0.01 |
| 87972 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.22 | 15.8 | 12 | 5.9 | 1.2 | 0.0566 | 0.010 | < 0.01 |
| 87973 | 2.5 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.17 | 15.7 | 9 | 11.7 | 1.6 | 0.179 | 0.030 | 0.01 |
| 87974 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 16.5 | 10 | 7.6 | 1.1 | 0.0527 | 0.016 | < 0.01 |
| 87975 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 14.4 | 12 | 11.0 | 1.2 | 0.121 | 0.048 | < 0.01 |
| 87976 | 1.4 | 0.2 | 1.0 | 0.9 | 0.001 | 0.17 | 13.9 | 14 | 9.4 | 1.1 | 0.621 | 0.081 | < 0.01 |
| 87977 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.06 | 7.5 | 23 | 5.2 | 0.7 | 0.135 | 0.064 | < 0.01 |
| 87978 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 14.3 | 13 | 6.6 | 1.2 | 0.145 | 0.025 | < 0.01 |
| 87979 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.25 | 14.1 | 14 | 7.7 | 1.2 | 0.106 | 0.041 | 0.02 |
| 87980 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.26 | 15.8 | 14 | 10.3 | 1.3 | 0.158 | 0.066 | < 0.01 |
| 87981 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 14.1 | 12 | 10.2 | 1.2 | 0.138 | 0.050 | < 0.01 |
| 87982 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.29 | 17.4 | 11 | 9.9 | 1.2 | 0.172 | 0.036 | < 0.01 |
| 87983 | 1.0 | 0.1 | 0.1 | < 0.1 | 0.002 | 0.21 | 15.2 | 12 | 5.9 | 1.0 | 0.123 | 0.023 | < 0.01 |
| 87984 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 12.5 | 14 | 9.2 | 1.1 | 0.236 | 0.045 | < 0.01 |
| 87985 | 1.2 | 0.2 | 0.2 | 0.1 | 0.001 | 0.20 | 14.5 | 16 | 9.2 | 1.1 | 0.100 | 0.034 | < 0.01 |
| 87986 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 13.0 | 11 | 5.0 | 0.9 | 0.0848 | 0.030 | < 0.01 |
| 87987 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.13 | 14.5 | 14 | 6.1 | 0.7 | 0.262 | 0.028 | 0.01 |
| 87988 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 11.3 | 21 | 6.0 | 0.8 | 0.197 | 0.086 | < 0.01 |
| 87989 | 1.1 | 0.2 | 0.4 | < 0.1 | < 0.001 | < 0.05 | 4.6 | 31 | 3.4 | 0.5 | 0.537 | 0.021 | < 0.01 |
| 87990 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 13.2 | 19 | 5.8 | 1.0 | 0.277 | 0.027 | < 0.01 |
| 87991 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 11.5 | 17 | 9.7 | 0.9 | 0.433 | 0.076 | < 0.01 |
| 87992 | 1.3 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.34 | 13.1 | 15 | 10.1 | 1.3 | 0.432 | 0.060 | < 0.01 |
| 87993 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.29 | 14.7 | 13 | 9.8 | 1.0 | 0.194 | 0.063 | < 0.01 |
| 87994 | 0.7 | 0.1 | 0.1 | 8.6 | 0.024 | 0.57 | 23.8 | 6 | 2.4 | 15.2 | 0.194 | 0.048 | 1.14 |
| 87995 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 12.9 | 15 | 10.0 | 1.0 | 0.246 | 0.074 | < 0.01 |
| 87996 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.19 | 12.6 | 9 | 4.3 | 0.6 | 0.253 | 0.054 | < 0.01 |
| 87997 | 1.1 | 0.1 | 0.4 | 0.3 | 0.001 | 0.32 | 15.2 | 11 | 9.6 | 1.1 | 0.361 | 0.056 | < 0.01 |
| 87998 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.44 | 15.3 | 14 | 11.1 | 1.1 | 0.339 | 0.070 | 0.02 |
| 87999 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.40 | 10.4 | 11 | 8.3 | 1.8 | 0.147 | 0.069 | 0.05 |
| 88000 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.38 | 14.2 | 15 | 13.7 | 1.1 | 0.361 | 0.083 | < 0.01 |
| 87701 | 1.3 | 0.2 | 0.1 | 0.1 | 0.003 | 0.40 | 14.9 | 14 | 12.3 | 1.1 | 0.456 | 0.077 | < 0.01 |
| 87702 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.41 | 14.0 | 14 | 11.9 | 1.1 | 0.365 | 0.085 | < 0.01 |
| 87703 | 1.2 | 0.2 | 0.2 | 0.1 | 0.003 | 0.39 | 14.6 | 14 | 12.4 | 1.0 | 0.493 | 0.085 | < 0.01 |
| 87704 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.39 | 14.3 | 16 | 12.8 | 1.2 | 0.415 | 0.095 | < 0.01 |
| 87705 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.38 | 12.2 | 10 | 6.4 | 1.2 | 0.357 | 0.084 | 0.01 |
| 87706 | 1.3 | 0.2 | 0.2 | 0.2 | 0.004 | 0.46 | 15.2 | 12 | 11.6 | 1.7 | 0.223 | 0.067 | 0.02 |
| 87707 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.47 | 15.4 | 13 | 9.6 | 2.5 | 0.221 | 0.064 | 0.04 |
| 87708 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.43 | 17.1 | 12 | 13.7 | 1.3 | 0.108 | 0.050 | < 0.01 |
| 87709 | 1.4 | 0.2 | < 0.1 | 0.1 | 0.001 | 0.45 | 17.0 | 13 | 15.2 | 1.4 | 0.282 | 0.066 | 0.02 |
| 87710 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.36 | 16.9 | 11 | 10.0 | 1.0 | 0.232 | 0.051 | 0.01 |
| 87711 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 18.3 | 18 | 14.7 | 1.2 | 0.422 | 0.056 | < 0.01 |
| 87712 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.20 | 9.2 | 16 | 7.0 | 0.8 | 0.159 | 0.075 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87713 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.15 | 6.0 | 30 | 5.7 | 0.4 | 0.229 | 0.106 | < 0.01 |
| 87714 | 1.5 | 0.2 | 0.3 | < 0.1 | 0.003 | 0.23 | 10.5 | 16 | 7.5 | 1.3 | 0.0994 | 0.041 | 0.01 |
| 87715 | 1.0 | 0.1 | 0.1 | < 0.1 | < 0.001 | 0.19 | 10.6 | 9 | 4.0 | 0.6 | 0.327 | 0.087 | < 0.01 |
| 87716 | 1.7 | 0.2 | 0.6 | 0.4 | 0.001 | 0.28 | 9.8 | 17 | 8.5 | 1.1 | 0.303 | 0.093 | 0.02 |
| 87717 | 1.3 | 0.2 | 0.5 | 0.4 | < 0.001 | 0.24 | 10.6 | 16 | 8.9 | 0.9 | 0.209 | 0.083 | < 0.01 |
| 87718 | 1.2 | 0.2 | 0.3 | 0.2 | < 0.001 | 0.19 | 11.0 | 17 | 6.2 | 0.9 | 0.129 | 0.047 | 0.02 |
| 87719 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.21 | 7.2 | 12 | 6.1 | 2.6 | 0.403 | 0.144 | 0.18 |
| 87720 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.09 | 5.3 | 18 | 6.0 | 0.6 | 0.367 | 0.077 | 0.03 |
| 87721 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.29 | 11.3 | 20 | 10.8 | 1.0 | 0.579 | 0.130 | < 0.01 |
| 87722 | 1.8 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 10.5 | 19 | 9.6 | 0.9 | 0.285 | 0.131 | < 0.01 |
| 87723 | 1.8 | 0.2 | 0.1 | < 0.1 | 0.004 | 0.21 | 11.4 | 20 | 11.3 | 1.3 | 0.561 | 0.152 | 0.01 |
| 87724 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.006 | 0.23 | 13.2 | 18 | 10.8 | 1.7 | 0.564 | 0.129 | 0.05 |
| 87725 | 1.0 | 0.1 | 1.7 | 0.5 | 0.002 | 0.13 | 9.4 | 10 | 2.5 | 0.5 | 1.09 | 0.084 | 0.01 |
| 87726 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 12.6 | 17 | 7.0 | 1.3 | 0.144 | 0.068 | < 0.01 |
| 87727 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.22 | 11.3 | 21 | 8.0 | 1.0 | 0.138 | 0.111 | < 0.01 |
| 87728 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 12.8 | 22 | 11.5 | 1.2 | 0.204 | 0.139 | 0.02 |
| 87729 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 15.9 | 17 | 9.6 | 1.2 | 0.223 | 0.073 | < 0.01 |
| 87730 | 0.8 | 0.1 | 0.2 | 0.1 | 0.003 | 0.08 | 6.0 | 16 | 4.8 | 0.6 | 0.299 | 0.039 | 0.02 |
| 87731 | 1.9 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.47 | 18.1 | 22 | 19.0 | 2.1 | 0.595 | 0.201 | 0.03 |
| 87732 | 7.7 | 1.0 | 3.4 | 0.6 | 0.008 | 0.54 | 57.9 | 20 | 70.8 | 7.3 | 0.792 | 0.607 | 0.05 |
| 87733 | 1.5 | 0.2 | 1.0 | 1.0 | < 0.001 | 0.38 | 16.3 | 11 | 14.9 | 1.2 | 0.712 | 0.117 | < 0.01 |
| 87734 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 13.8 | 14 | 9.5 | 1.3 | 0.334 | 0.054 | < 0.01 |
| 87735 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 13.4 | 13 | 8.6 | 1.2 | 0.213 | 0.064 | < 0.01 |
| 87736 | 2.6 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 26.9 | 19 | 29.7 | 2.6 | 0.340 | 0.167 | 0.03 |
| 87737 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 14.6 | 19 | 19.3 | 1.2 | 0.297 | 0.113 | 0.01 |
| 87738 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.27 | 14.7 | 17 | 14.9 | 1.4 | 0.506 | 0.106 | 0.02 |
| 87739 | 1.9 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 16.2 | 20 | 17.9 | 1.2 | 0.528 | 0.152 | 0.01 |
| 87740 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.24 | 48.0 | 39 | 27.8 | 10.5 | 0.270 | 0.110 | 0.02 |
| 87741 | 2.1 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 16.3 | 20 | 18.8 | 1.9 | 0.229 | 0.087 | 0.02 |
| 87742 | 3.2 | 0.4 | < 0.1 | 0.1 | < 0.001 | 0.11 | 16.5 | 23 | 28.1 | 0.9 | 0.466 | 0.173 | 0.02 |
| 87743 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 9.5 | 22 | 12.2 | 0.8 | 0.373 | 0.077 | 0.02 |
| 87744 | 0.7 | 0.1 | < 0.1 | 0.1 | < 0.001 | 0.12 | 11.3 | 7 | 7.9 | 0.5 | 0.250 | 0.017 | < 0.01 |
| 87745 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 15.6 | 10 | 6.0 | 1.1 | 0.217 | 0.040 | < 0.01 |
| 87746 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 13.9 | 10 | 6.4 | 0.9 | 0.168 | 0.017 | < 0.01 |
| 87747 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 14.3 | 10 | 5.6 | 1.0 | 0.0802 | 0.016 | 0.01 |
| 87748 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 15.3 | 12 | 11.5 | 1.3 | 0.174 | 0.059 | 0.02 |
| 87749 | 2.2 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 14.7 | 12 | 15.7 | 1.4 | 0.117 | 0.027 | 0.03 |
| 87750 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 16.8 | 9 | 8.5 | 1.1 | 0.0752 | 0.015 | < 0.01 |
| 87751 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 14.9 | 11 | 10.7 | 1.4 | 0.244 | 0.058 | 0.03 |
| 87752 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 15.1 | 10 | 8.0 | 1.0 | 0.126 | 0.023 | 0.01 |
| 87753 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 15.5 | 11 | 13.2 | 1.4 | 0.262 | 0.070 | 0.01 |
| 87754 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 14.5 | 8 | 9.6 | 1.4 | 0.385 | 0.092 | 0.04 |
| 87756 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 15.5 | 8 | 8.5 | 1.0 | 0.215 | 0.018 | < 0.01 |
| 87757 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.24 | 20.0 | 9 | 7.2 | 1.2 | 0.287 | 0.030 | 0.01 |
| 87758 | 139 | 18.6 | < 0.1 | 6.1 | 0.003 | < 0.05 | 329 | 24 | > 200 | 432 | 0.0785 | 3.78 | 0.03 |
| 87759 | 1.8 | 0.3 | 0.2 | 0.5 | < 0.001 | 0.20 | 17.9 | 16 | 42.0 | 2.1 | 0.147 | 0.045 | 0.04 |
| 87760 | 3.3 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 22.3 | 13 | 78.7 | 1.8 | 0.272 | 0.107 | 0.02 |
| 87761 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 16.9 | 9 | 15.2 | 1.0 | 0.188 | 0.023 | 0.01 |
| 87762 | 1.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.47 | 17.8 | 14 | 24.0 | 2.2 | 0.317 | 0.056 | 0.02 |
| 87763 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 20.6 | 9 | 8.7 | 1.3 | 0.230 | 0.059 | 0.01 |
| 87766 | 0.8 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 16.1 | 8 | 7.1 | 0.9 | 0.104 | 0.026 | < 0.01 |
| 87767 | 0.8 | 0.1 | 0.2 | 0.1 | < 0.001 | 0.29 | 18.1 | 7 | 11.4 | 0.8 | 0.239 | 0.046 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 87768 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 15.8 | 9 | 12.0 | 1.2 | 0.262 | 0.061 | < 0.01 |
| 87769 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 17.0 | 10 | 9.0 | 1.4 | 0.269 | 0.055 | < 0.01 |
| 87770 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 16.5 | 10 | 10.1 | 1.1 | 0.202 | 0.056 | 0.02 |
| 87771 | 1.2 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.33 | 15.0 | 10 | 13.8 | 2.6 | 0.296 | 0.101 | 0.05 |
| 87772 | 1.2 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.40 | 17.3 | 9 | 12.9 | 1.2 | 0.238 | 0.070 | < 0.01 |
| 87773 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.40 | 16.4 | 9 | 11.5 | 1.2 | 0.181 | 0.046 | < 0.01 |
| 87774 | 1.8 | 0.3 | 0.5 | 0.4 | < 0.001 | 0.44 | 14.2 | 13 | 16.4 | 3.2 | 0.371 | 0.223 | 0.11 |
| 87775 | 1.1 | 0.1 | 0.4 | 0.2 | < 0.001 | 0.39 | 16.7 | 8 | 10.2 | 0.8 | 0.277 | 0.046 | < 0.01 |
| 87776 | 0.6 | < 0.1 | < 0.1 | 0.1 | < 0.001 | 0.19 | 7.6 | 4 | 3.6 | 1.6 | 0.161 | 0.066 | 0.12 |
| 87777 | 1.5 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.36 | 14.8 | 11 | 9.5 | 2.2 | 0.297 | 0.072 | < 0.01 |
| 87778 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 18.2 | 7 | 8.1 | 0.8 | 0.212 | 0.038 | < 0.01 |
| 87779 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.44 | 18.8 | 9 | 9.7 | 1.0 | 0.0854 | 0.017 | < 0.01 |
| 87780 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 16.7 | 10 | 8.6 | 2.1 | 0.0851 | 0.021 | < 0.01 |
| 87781 | 39.7 | 4.5 | 1.1 | < 0.1 | < 0.001 | 0.30 | 131 | 21 | > 200 | 17.0 | 1.09 | 0.530 | 0.03 |
| 87782 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 14.1 | 16 | 10.3 | 0.9 | 0.180 | 0.038 | 0.01 |
| 87783 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 15.8 | 14 | 9.7 | 1.0 | 0.272 | 0.026 | < 0.01 |
| 87784 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.52 | 22.9 | 11 | 15.7 | 1.4 | 0.333 | 0.057 | 0.02 |
| 87785 | 4.7 | 0.7 | 1.7 | 0.5 | 0.004 | 1.13 | 13.2 | 20 | 57.2 | 7.3 | 0.409 | 0.315 | < 0.01 |
| 87786 | 1.4 | 0.2 | 0.3 | < 0.1 | < 0.001 | 0.41 | 15.2 | 11 | 7.3 | 1.3 | 0.328 | 0.087 | 0.01 |
| 87787 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.37 | 15.8 | 10 | 8.8 | 2.1 | 0.230 | 0.063 | 0.01 |
| 87788 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 18.2 | 9 | 8.9 | 1.1 | 0.172 | 0.062 | < 0.01 |
| 87789 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.34 | 15.8 | 9 | 6.4 | 0.8 | 0.171 | 0.047 | < 0.01 |
| 87790 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.33 | 15.4 | 8 | 5.9 | 1.1 | 0.0932 | 0.025 | 0.01 |
| 87791 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.43 | 17.1 | 8 | 9.3 | 0.9 | 0.0935 | 0.018 | < 0.01 |
| 87792 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 16.4 | 10 | 9.2 | 1.0 | 0.216 | 0.071 | 0.01 |
| 87793 | 0.8 | < 0.1 | < 0.1 | < 0.1 | 0.001 | 0.43 | 17.2 | 7 | 7.6 | 0.9 | 0.112 | 0.019 | < 0.01 |
| 87794 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.32 | 19.3 | 10 | 14.5 | 1.4 | 0.243 | 0.072 | 0.02 |
| 87795 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.43 | 17.1 | 10 | 7.7 | 2.5 | 0.0718 | 0.018 | 0.01 |
| 87796 | 1.4 | 0.2 | 0.1 | < 0.1 | 0.001 | 0.40 | 19.1 | 9 | 9.3 | 0.9 | 0.205 | 0.021 | < 0.01 |
| 87797 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.50 | 19.9 | 9 | 6.6 | 1.2 | 0.0504 | 0.006 | < 0.01 |
| 87798 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.31 | 15.4 | 11 | 9.7 | 1.1 | 0.0771 | 0.039 | < 0.01 |
| 87799 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 15.7 | 11 | 12.3 | 1.4 | 0.212 | 0.051 | 0.01 |
| 87800 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 14.0 | 10 | 8.6 | 1.5 | 0.116 | 0.040 | 0.03 |
| 89901 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 21.0 | 11 | 14.6 | 2.2 | 0.236 | 0.084 | 0.02 |
| 89902 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.38 | 18.2 | 10 | 10.1 | 1.4 | 0.289 | 0.049 | 0.01 |
| 89903 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 16.3 | 8 | 8.1 | 1.0 | 0.195 | 0.046 | 0.01 |
| 89904 | 0.9 | 0.1 | 0.2 | < 0.1 | < 0.001 | 0.30 | 15.2 | 8 | 8.1 | 1.0 | 0.241 | 0.052 | < 0.01 |
| 89905 | 0.8 | 0.1 | 0.3 | 0.2 | < 0.001 | 0.28 | 16.5 | 6 | 8.9 | 0.9 | 0.193 | 0.055 | 0.01 |
| 89906 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 15.9 | 9 | 5.5 | 1.2 | 0.306 | 0.030 | 0.03 |
| 89907 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 18.8 | 9 | 5.6 | 1.2 | 0.197 | 0.018 | 0.01 |
| 89908 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 16.3 | 9 | 8.9 | 1.2 | 0.213 | 0.067 | 0.01 |
| 89909 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 18.3 | 10 | 10.4 | 1.5 | 0.140 | 0.044 | 0.01 |
| 89910 | 1.0 | 0.1 | 0.3 | 0.2 | 0.001 | 0.40 | 18.3 | 10 | 12.4 | 1.3 | 0.317 | 0.071 | 0.02 |
| 89911 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 16.4 | 13 | 11.2 | 2.8 | 0.359 | 0.091 | 0.03 |
| 89912 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.47 | 26.5 | 14 | 9.8 | 2.8 | 0.246 | 0.097 | 0.03 |
| 89913 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 22.8 | 11 | 7.5 | 2.0 | 0.172 | 0.098 | 0.01 |
| 89914 | 2.8 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.56 | 19.8 | 18 | 16.1 | 7.0 | 0.602 | 0.293 | 0.01 |
| 89915 | 0.9 | 0.1 | 0.7 | 0.8 | < 0.001 | 0.31 | 16.2 | 7 | 7.9 | 1.0 | 0.331 | 0.061 | < 0.01 |
| 89916 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 17.7 | 10 | 10.4 | 1.4 | 0.243 | 0.050 | < 0.01 |
| 89917 | 1.3 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.35 | 14.8 | 10 | 5.2 | 5.7 | 0.291 | 0.043 | 0.03 |
| 89918 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.79 | 8.2 | 14 | 10.7 | 1.9 | 0.459 | 0.164 | 0.03 |
| 89919 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.35 | 15.9 | 9 | 8.6 | 1.1 | 0.0583 | 0.018 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 89920 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 17.7 | 8 | 5.8 | 1.1 | 0.153 | 0.036 | < 0.01 |
| 89921 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 17.1 | 10 | 8.6 | 2.2 | 0.198 | 0.059 | 0.01 |
| 89922 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 15.3 | 9 | 6.9 | 1.0 | 0.137 | 0.020 | 0.01 |
| 89923 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 18.4 | 10 | 10.5 | 2.1 | 0.168 | 0.042 | 0.02 |
| 89924 | 2.4 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.58 | 20.6 | 16 | 20.2 | 4.8 | 0.522 | 0.259 | 0.03 |
| 89925 | 0.6 | < 0.1 | 0.6 | 0.4 | < 0.001 | 0.24 | 14.5 | 6 | 5.2 | 0.7 | 0.331 | 0.049 | < 0.01 |
| 89926 | 1.3 | 0.2 | 0.3 | 0.1 | 0.001 | 0.37 | 15.3 | 13 | 7.5 | 1.5 | 0.382 | 0.064 | < 0.01 |
| 89927 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.48 | 16.8 | 13 | 8.8 | 2.0 | 0.113 | 0.030 | < 0.01 |
| 89928 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 15.0 | 7 | 7.0 | 0.9 | 0.210 | 0.055 | < 0.01 |
| 89929 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 15.5 | 11 | 10.2 | 3.2 | 0.254 | 0.073 | < 0.01 |
| 89930 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 14.7 | 12 | 10.5 | 1.5 | 0.265 | 0.090 | < 0.01 |
| 89931 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.23 | 12.7 | 12 | 9.4 | 2.8 | 0.248 | 0.084 | < 0.01 |
| 89932 | 1.9 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.31 | 12.5 | 15 | 9.5 | 1.4 | 0.441 | 0.063 | 0.01 |
| 89933 | 2.4 | 0.4 | 1.9 | 3.6 | < 0.001 | 0.30 | 15.4 | 21 | 12.1 | 1.6 | 0.629 | 0.082 | 0.02 |
| 89934 | 2.5 | 0.4 | 0.8 | 1.0 | < 0.001 | 0.33 | 14.6 | 19 | 15.6 | 2.0 | 0.481 | 0.119 | 0.02 |
| 89935 | 1.3 | 0.2 | < 0.1 | 0.4 | 0.001 | 0.36 | 12.6 | 19 | 6.5 | 1.3 | 0.148 | 0.024 | < 0.01 |
| 89937 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.39 | 15.7 | 11 | 8.6 | 1.3 | 0.116 | 0.063 | < 0.01 |
| 89938 | 1.1 | 0.2 | 0.2 | 0.1 | 0.001 | 0.33 | 14.5 | 11 | 8.8 | 1.0 | 0.100 | 0.053 | < 0.01 |
| 89939 | 1.2 | 0.2 | 0.3 | 0.2 | 0.002 | 0.37 | 15.9 | 10 | 8.5 | 1.2 | 0.114 | 0.062 | < 0.01 |
| 89940 | 1.2 | 0.2 | 0.1 | < 0.1 | 0.001 | 0.40 | 15.9 | 10 | 8.9 | 1.2 | 0.151 | 0.068 | < 0.01 |
| 89941 | 1.7 | 0.2 | 0.3 | 0.2 | 0.001 | 0.27 | 12.1 | 15 | 5.7 | 1.2 | 0.107 | 0.029 | 0.01 |
| 89942 | 1.6 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.25 | 14.3 | 11 | 8.6 | 1.3 | 0.207 | 0.062 | < 0.01 |
| 89943 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.30 | 15.1 | 10 | 7.7 | 1.2 | 0.150 | 0.045 | < 0.01 |
| 89944 | 2.5 | 0.4 | 0.1 | < 0.1 | 0.003 | 0.26 | 12.7 | 11 | 10.0 | 1.4 | 0.446 | 0.102 | < 0.01 |
| 89945 | 2.3 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 11.1 | 15 | 3.9 | 1.1 | 0.229 | 0.023 | < 0.01 |
| 89946 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 13.4 | 23 | 4.9 | 1.0 | 0.0673 | 0.043 | < 0.01 |
| 89947 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 14.2 | 10 | 5.7 | 1.1 | 0.148 | 0.074 | < 0.01 |
| 89948 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.37 | 17.5 | 9 | 5.8 | 1.0 | 0.196 | 0.053 | 0.01 |
| 89949 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.30 | 15.5 | 10 | 13.8 | 1.2 | 0.147 | 0.079 | < 0.01 |
| 89950 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 14.9 | 10 | 7.5 | 1.1 | 0.175 | 0.043 | < 0.01 |
| 89951 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.43 | 14.8 | 12 | 9.6 | 1.9 | 0.315 | 0.094 | 0.01 |
| 89952 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.43 | 15.0 | 11 | 9.2 | 1.4 | 0.250 | 0.083 | 0.02 |
| 89953 | 2.4 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.16 | 10.4 | 18 | 7.0 | 1.0 | 0.404 | 0.127 | 0.01 |
| 89954 | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 10.5 | 15 | 6.7 | 1.0 | 0.383 | 0.126 | < 0.01 |
| 89955 | 0.9 | 0.1 | 0.8 | 0.5 | 0.003 | 0.39 | 12.0 | 11 | 3.4 | 5.6 | 0.529 | 0.104 | 0.09 |
| 89956 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.22 | 12.8 | 12 | 12.6 | 1.3 | 0.123 | 0.091 | 0.03 |
| 89957 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.37 | 13.2 | 10 | 6.8 | 2.8 | 0.304 | 0.082 | 0.05 |
| 89958 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.37 | 16.1 | 8 | 7.7 | 1.0 | 0.233 | 0.053 | < 0.01 |
| 89959 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 16.5 | 9 | 8.7 | 1.1 | 0.0924 | 0.060 | < 0.01 |
| 89960 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 13.8 | 10 | 5.8 | 1.2 | 0.0655 | 0.049 | < 0.01 |
| 89961 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.38 | 15.8 | 11 | 11.4 | 1.5 | 0.145 | 0.095 | 0.01 |
| 89962 | 1.6 | 0.2 | 0.1 | < 0.1 | 0.004 | 0.30 | 14.9 | 12 | 9.5 | 1.6 | 0.168 | 0.079 | 0.02 |
| 89963 | 0.9 | 0.1 | < 0.1 | 0.2 | 0.001 | 0.27 | 9.7 | 6 | 4.2 | 5.0 | 0.291 | 0.084 | 0.27 |
| 89964 | 2.1 | 0.3 | 0.6 | < 0.1 | 0.001 | 0.19 | 14.4 | 12 | 8.8 | 1.3 | 0.675 | 0.131 | < 0.01 |
| 89965 | 1.5 | 0.2 | 0.5 | < 0.1 | 0.001 | 0.33 | 16.5 | 12 | 8.7 | 1.7 | 0.224 | 0.086 | < 0.01 |
| 89966 | 1.3 | 0.2 | 0.1 | < 0.1 | 0.003 | 0.38 | 15.7 | 10 | 9.0 | 1.3 | 0.250 | 0.074 | < 0.01 |
| 89967 | 1.3 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.37 | 15.8 | 10 | 7.4 | 1.1 | 0.188 | 0.075 | < 0.01 |
| 89968 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 15.1 | 9 | 5.0 | 1.0 | 0.0947 | 0.041 | < 0.01 |
| 89969 | 1.6 | 0.2 | 0.3 | 0.1 | 0.002 | 0.30 | 15.4 | 15 | 9.8 | 1.3 | 0.208 | 0.069 | 0.01 |
| 89970 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.48 | 15.7 | 11 | 8.8 | 1.3 | 0.131 | 0.068 | < 0.01 |
| 89971 | 1.4 | 0.2 | 0.3 | 0.3 | 0.001 | 0.32 | 12.1 | 13 | 8.6 | 1.1 | 0.155 | 0.075 | < 0.01 |
| 89972 | 1.1 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.15 | 8.5 | 14 | 6.9 | 0.7 | 0.104 | 0.028 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 89973 | 1.0 | 0.1 | 0.8 | 0.9 | < 0.001 | 0.25 | 9.6 | 9 | 3.8 | 0.8 | 1.13 | 0.086 | < 0.01 |
| 89974 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.27 | 11.2 | 11 | 5.9 | 0.9 | 0.146 | 0.022 | < 0.01 |
| 89975 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 13.9 | 14 | 8.5 | 1.2 | 0.259 | 0.065 | < 0.01 |
| 89726 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.39 | 15.6 | 14 | 14.4 | 1.0 | 0.249 | 0.081 | < 0.01 |
| 89727 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 9.9 | 19 | 11.1 | 0.7 | 0.479 | 0.068 | < 0.01 |
| 89728 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | < 0.05 | 20.9 | 17 | 11.2 | 0.8 | 0.464 | 0.035 | 0.03 |
| 89729 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.24 | 14.2 | 12 | 8.8 | 1.1 | 0.157 | 0.073 | 0.02 |
| 89730 | 1.0 | 0.1 | 0.5 | 0.4 | 0.003 | 0.26 | 13.8 | 10 | 9.3 | 0.8 | 0.355 | 0.081 | 0.02 |
| 89731 | 0.9 | 0.1 | 0.2 | 0.4 | 0.002 | 0.28 | 15.3 | 8 | 6.4 | 0.9 | 0.229 | 0.069 | < 0.01 |
| 89732 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.23 | 13.7 | 14 | 8.4 | 0.9 | 0.191 | 0.012 | < 0.01 |
| 89733 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.002 | < 0.05 | 12.4 | 18 | 9.2 | 0.5 | 0.327 | 0.020 | 0.03 |
| 89734 | 4.6 | 0.6 | < 0.1 | 4.1 | 0.011 | 0.51 | 112 | 49 | 158 | 1.7 | 0.413 | 0.355 | 0.08 |
| 89735 | 2.1 | 0.3 | < 0.1 | < 0.1 | 0.002 | < 0.05 | 5.3 | 29 | 17.4 | 0.6 | 0.362 | 0.024 | < 0.01 |
| 89736 | 1.0 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.27 | 15.9 | 10 | 10.9 | 1.3 | 0.115 | 0.020 | 0.02 |
| 89737 | 3.2 | 0.4 | 0.2 | < 0.1 | 0.003 | 0.18 | 14.2 | 19 | 29.8 | 4.8 | 0.403 | 0.265 | 0.04 |
| 89739 | 1.5 | 0.2 | 0.4 | < 0.1 | 0.003 | < 0.05 | 3.0 | 25 | 6.0 | 0.4 | 0.664 | 0.077 | 0.04 |
| 89740 | 1.5 | 0.2 | 0.3 | 0.2 | 0.001 | 0.28 | 136 | 12 | 18.6 | 1.5 | 0.290 | 0.072 | 0.02 |
| 89741 | 1.0 | 0.1 | 1.0 | 0.1 | 0.001 | < 0.05 | 12.2 | 12 | 5.2 | 0.6 | 1.03 | 0.083 | 0.03 |
| 89742 | 1.4 | 0.2 | 0.1 | < 0.1 | 0.002 | 0.24 | 14.6 | 12 | 11.8 | 1.5 | 0.363 | 0.096 | < 0.01 |
| 89743 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 8.7 | 23 | 7.6 | 0.8 | 0.126 | 0.025 | 0.02 |
| 89744 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.28 | 15.2 | 13 | 9.3 | 1.1 | 0.174 | 0.010 | < 0.01 |
| 89745 | 1.4 | 0.2 | 0.2 | < 0.1 | 0.003 | 0.27 | 14.0 | 12 | 9.9 | 2.1 | 0.306 | 0.100 | 0.04 |
| 89746 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.17 | 12.5 | 15 | 9.7 | 1.8 | 0.220 | 0.140 | 0.05 |
| 89747 | 1.6 | 0.2 | 0.3 | < 0.1 | < 0.001 | < 0.05 | 3.8 | 24 | 7.7 | 0.5 | 0.744 | 0.028 | 0.02 |
| 89748 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.17 | 24.6 | 15 | 31.2 | 2.0 | 0.359 | 0.105 | 0.03 |
| 89749 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.21 | 22.4 | 17 | 23.0 | 1.3 | 0.419 | 0.165 | 0.03 |
| 89750 | 1.8 | 0.2 | 1.1 | < 0.1 | 0.001 | < 0.05 | 6.7 | 18 | 10.2 | 0.7 | 0.879 | 0.085 | 0.01 |
| 89752 | 2.0 | 0.3 | 0.3 | < 0.1 | 0.003 | 0.05 | 6.6 | 26 | 5.1 | 0.5 | 0.509 | 0.063 | < 0.01 |
| 89753 | 2.0 | 0.3 | 0.9 | 0.4 | 0.002 | < 0.05 | 13.8 | 21 | 5.5 | 0.4 | 0.650 | 0.134 | 0.01 |
| 89754 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.19 | 13.8 | 17 | 9.2 | 1.3 | 0.209 | 0.087 | 0.05 |
| 89755 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.006 | 0.15 | 14.1 | 17 | 10.5 | 1.1 | 0.176 | 0.021 | 0.01 |
| 89756 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.19 | 14.8 | 14 | 7.6 | 1.0 | 0.161 | 0.075 | 0.02 |
| 89757 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | < 0.05 | 10.9 | 18 | 6.5 | 0.5 | 0.191 | 0.048 | 0.02 |
| 89758 | 1.3 | 0.1 | < 0.1 | < 0.1 | 0.003 | < 0.05 | 5.7 | 22 | 2.4 | 0.4 | 0.108 | 0.026 | < 0.01 |
| 89759 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.10 | 11.7 | 20 | 12.4 | 0.8 | 0.580 | 0.092 | 0.01 |
| 89760 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 14.5 | 12 | 7.0 | 0.9 | 0.113 | 0.036 | < 0.01 |
| 89761 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.11 | 21.6 | 20 | 7.7 | 0.7 | 0.503 | 0.060 | < 0.01 |
| 89762 | 1.0 | 0.1 | 0.6 | 0.2 | 0.002 | 0.11 | 10.0 | 12 | 2.8 | 0.4 | 0.709 | 0.060 | < 0.01 |
| 89763 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 12.4 | 19 | 7.1 | 0.8 | 0.290 | 0.068 | 0.01 |
| 89764 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.30 | 13.0 | 19 | 13.2 | 1.0 | 0.162 | 0.046 | 0.01 |
| 89765 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 13.3 | 16 | 13.3 | 1.1 | 0.298 | 0.093 | 0.02 |
| 89766 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.38 | 17.6 | 13 | 7.4 | 0.9 | 0.101 | 0.019 | < 0.01 |
| 89767 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.47 | 16.9 | 19 | 18.2 | 1.2 | 0.378 | 0.072 | < 0.01 |
| 89768 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 14.1 | 17 | 12.2 | 1.8 | 0.223 | 0.065 | 0.02 |
| 89769 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.40 | 14.4 | 15 | 8.0 | 0.9 | 0.319 | 0.036 | < 0.01 |
| 89770 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.24 | 16.8 | 21 | 7.9 | 2.1 | 0.156 | 0.070 | 0.05 |
| 89771 | 1.0 | 0.1 | 0.2 | 0.1 | 0.002 | 0.34 | 14.9 | 11 | 8.9 | 0.8 | 0.496 | 0.070 | 0.01 |
| 89772 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.29 | 15.5 | 14 | 10.1 | 0.9 | 0.294 | 0.056 | < 0.01 |
| 89773 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 15.3 | 21 | 6.7 | 0.9 | 0.143 | 0.045 | 0.03 |
| 89774 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.34 | 14.6 | 14 | 8.4 | 1.0 | 0.0969 | 0.046 | 0.01 |
| 89775 | 1.2 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.41 | 13.3 | 16 | 10.9 | 1.3 | 0.344 | 0.124 | 0.07 |
| 89776 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.22 | 12.3 | 15 | 13.3 | 1.0 | 0.404 | 0.034 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|--------|-------|-------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | TD-ICP |
| 89777 | 1.5 | 0.2 | 0.2 | 0.2 | 0.001 | 0.39 | 17.8 | 14 | 17.2 | 1.7 | 0.367 | 0.116 | 0.01 |
| 89778 | 1.2 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.41 | 16.0 | 12 | 10.8 | 1.0 | 0.335 | 0.087 | < 0.01 |
| 89779 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 24.0 | 11 | 12.8 | 1.2 | 0.260 | 0.057 | < 0.01 |
| 89780 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.40 | 16.6 | 12 | 14.3 | 1.2 | 0.220 | 0.098 | < 0.01 |
| 89781 | 0.9 | 0.1 | 0.5 | 0.4 | 0.004 | 0.39 | 14.4 | 7 | 10.7 | 1.3 | 0.213 | 0.067 | < 0.01 |
| 89782 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 14.9 | 12 | 9.1 | 1.2 | 0.334 | 0.075 | 0.01 |
| 89783 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.44 | 20.4 | 12 | 15.4 | 1.2 | 0.299 | 0.085 | < 0.01 |
| 89784 | 1.0 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.43 | 15.4 | 10 | 6.8 | 1.1 | 0.255 | 0.045 | < 0.01 |
| 89785 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.43 | 17.3 | 10 | 11.3 | 1.2 | 0.244 | 0.054 | < 0.01 |
| 89786 | 1.0 | 0.1 | 0.1 | 0.2 | < 0.001 | 0.40 | 21.2 | 10 | 11.8 | 1.4 | 0.257 | 0.046 | < 0.01 |
| 89787 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 15.7 | 11 | 16.8 | 1.3 | 0.281 | 0.078 | < 0.01 |
| 89788 | 0.9 | 0.1 | 0.1 | 0.2 | 0.002 | 0.42 | 20.5 | 9 | 9.2 | 1.0 | 0.248 | 0.065 | < 0.01 |
| 89801 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.35 | 12.6 | 16 | 10.0 | 1.2 | 0.316 | 0.095 | < 0.01 |
| 89802 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 10.4 | 17 | 7.2 | 0.9 | 0.174 | 0.093 | < 0.01 |
| 89803 | 1.1 | 0.1 | 0.8 | 0.1 | 0.002 | 0.19 | 10.6 | 12 | 5.4 | 0.7 | 0.899 | 0.056 | < 0.01 |
| 89804 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.48 | 21.8 | 10 | 6.7 | 1.3 | 0.238 | 0.012 | < 0.01 |
| 89805 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.41 | 16.6 | 8 | 9.0 | 1.1 | 0.300 | 0.020 | < 0.01 |
| 89806 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.29 | 17.3 | 13 | 14.3 | 1.2 | 0.204 | 0.067 | 0.02 |
| 89807 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 16.1 | 13 | 8.4 | 1.1 | 0.129 | 0.014 | < 0.01 |
| 89809 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 16.1 | 12 | 9.9 | 2.0 | 0.278 | 0.067 | 0.01 |
| 89810 | 1.0 | 0.1 | < 0.1 | 0.1 | 0.002 | 0.42 | 17.2 | 9 | 12.0 | 1.1 | 0.215 | 0.055 | < 0.01 |
| 89811 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.40 | 16.3 | 9 | 7.0 | 1.0 | 0.186 | 0.022 | 0.01 |
| 89812 | 1.0 | 0.1 | 0.4 | 0.4 | 0.001 | 0.36 | 16.9 | 7 | 14.7 | 1.2 | 0.268 | 0.069 | < 0.01 |
| 89813 | 1.0 | 0.1 | < 0.1 | 0.1 | < 0.001 | 0.39 | 16.9 | 9 | 10.5 | 1.1 | 0.265 | 0.059 | < 0.01 |
| 89814 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.30 | 20.3 | 9 | 8.0 | 1.7 | 0.217 | 0.023 | < 0.01 |
| 89815 | 0.9 | 0.1 | < 0.1 | 0.2 | 0.004 | 0.38 | 16.6 | 9 | 12.4 | 1.4 | 0.248 | 0.063 | < 0.01 |
| 89816 | 1.0 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.45 | 21.5 | 11 | 16.4 | 3.5 | 0.269 | 0.048 | 0.02 |
| 89817 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.40 | 16.5 | 10 | 7.7 | 1.3 | 0.219 | 0.026 | < 0.01 |
| 89818 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.46 | 19.0 | 12 | 15.0 | 1.7 | 0.326 | 0.058 | 0.02 |
| 89819 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.41 | 17.1 | 9 | 11.3 | 1.2 | 0.296 | 0.019 | < 0.01 |
| 89820 | 0.8 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 17.8 | 9 | 13.8 | 1.1 | 0.227 | 0.047 | 0.01 |
| 89821 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.39 | 16.6 | 10 | 11.0 | 1.2 | 0.269 | 0.061 | < 0.01 |
| 89822 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 16.5 | 10 | 9.3 | 3.1 | 0.264 | 0.063 | < 0.01 |
| 89823 | 0.8 | 0.1 | 0.3 | 0.2 | < 0.001 | 0.35 | 18.3 | 9 | 12.1 | 1.0 | 0.203 | 0.053 | 0.01 |
| 89824 | 1.2 | 0.2 | 0.2 | 0.2 | 0.002 | 0.34 | 17.1 | 11 | 15.6 | 1.5 | 0.277 | 0.097 | 0.03 |
| 89825 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.33 | 16.4 | 11 | 14.1 | 1.9 | 0.244 | 0.091 | 0.02 |
| 89826 | 1.1 | 0.2 | 0.2 | 0.3 | < 0.001 | 0.46 | 19.2 | 11 | 13.0 | 1.2 | 0.259 | 0.069 | < 0.01 |
| 89827 | 1.0 | 0.1 | 0.1 | 0.1 | 0.001 | 0.37 | 16.5 | 10 | 10.5 | 1.8 | 0.255 | 0.074 | 0.05 |
| 89828 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 19.7 | 10 | 13.5 | 1.3 | 0.219 | 0.031 | < 0.01 |
| 89829 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 16.8 | 12 | 12.2 | 30.6 | 0.396 | 0.114 | 0.06 |
| 89830 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.37 | 16.7 | 9 | 11.7 | 5.1 | 0.245 | 0.054 | 0.03 |
| 89831 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.28 | 20.7 | 8 | 8.2 | 10.2 | 0.156 | 0.386 | 0.02 |
| 89832 | 1.1 | 0.2 | 0.3 | 2.7 | < 0.001 | 0.44 | 18.2 | 11 | 16.3 | 1.6 | 0.302 | 0.050 | 0.01 |
| 89833 | 1.4 | 0.2 | 2.2 | 0.4 | 0.001 | 0.43 | 24.3 | 12 | 17.6 | 2.3 | 0.511 | 0.187 | 0.02 |
| 89834 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.37 | 19.0 | 9 | 20.2 | 1.6 | 0.151 | 0.024 | 0.02 |
| 89835 | 0.7 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.44 | 17.2 | 9 | 8.0 | 0.9 | 0.107 | 0.015 | < 0.01 |
| 89836 | 1.0 | 0.1 | 0.1 | < 0.1 | 0.003 | 0.35 | 17.4 | 9 | 11.1 | 1.5 | 0.211 | 0.059 | < 0.01 |
| 89837 | 1.2 | 0.2 | 0.5 | 0.9 | 0.001 | 0.66 | 18.3 | 13 | 15.6 | 3.2 | 0.341 | 0.093 | 0.03 |
| 89838 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.35 | 18.2 | 10 | 11.3 | 1.3 | 0.272 | 0.056 | < 0.01 |
| 89839 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.37 | 20.0 | 10 | 11.5 | 1.2 | 0.256 | 0.066 | < 0.01 |
| 89840 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.40 | 20.3 | 8 | 6.5 | 1.1 | 0.109 | 0.012 | < 0.01 |
| 89841 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.26 | 14.7 | 12 | 9.8 | 1.1 | 0.265 | 0.043 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 89842 | 1.2 | 0.2 | 0.3 | 0.2 | 0.002 | 0.25 | 20.0 | 10 | 16.0 | 1.5 | 0.221 | 0.067 | < 0.01 |
| 89843 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.31 | 16.0 | 8 | 9.0 | 1.0 | 0.225 | 0.059 | < 0.01 |
| 89844 | 1.0 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 17.0 | 10 | 9.9 | 1.8 | 0.230 | 0.068 | 0.02 |
| 89845 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.33 | 17.5 | 10 | 10.2 | 1.3 | 0.186 | 0.052 | < 0.01 |
| 89846 | 0.9 | 0.1 | 0.4 | 0.4 | < 0.001 | 0.56 | 18.4 | 10 | 11.7 | 1.0 | 0.279 | 0.037 | 0.01 |
| 89847 | 1.0 | 0.1 | 0.1 | 0.2 | 0.002 | 0.47 | 17.6 | 10 | 15.8 | 1.2 | 0.228 | 0.066 | 0.01 |
| 89848 | 1.6 | 0.2 | 0.3 | 0.2 | 0.002 | 0.50 | 50.5 | 14 | 14.4 | 2.3 | 0.566 | 0.101 | 0.03 |
| 89849 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.31 | 14.3 | 13 | 7.4 | 1.1 | 0.190 | 0.063 | < 0.01 |
| 89850 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.07 | 4.8 | 20 | 4.0 | 1.4 | 0.519 | 0.135 | 0.03 |
| 89851 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.21 | 8.7 | 16 | 5.5 | 0.9 | 0.143 | 0.072 | < 0.01 |
| 89852 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.36 | 15.2 | 12 | 9.1 | 1.0 | 0.217 | 0.079 | < 0.01 |
| 89853 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 13.9 | 12 | 9.9 | 1.0 | 0.249 | 0.067 | < 0.01 |
| 89854 | 0.8 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.37 | 14.6 | 9 | 6.4 | 1.0 | 0.103 | 0.011 | < 0.01 |
| 89855 | 1.5 | 0.2 | 0.4 | 0.5 | 0.002 | 0.32 | 13.3 | 20 | 11.7 | 0.9 | 0.612 | 0.109 | < 0.01 |
| 89856 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.38 | 14.1 | 19 | 11.6 | 1.1 | 0.327 | 0.116 | < 0.01 |
| 89857 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 13.7 | 19 | 10.1 | 0.9 | 0.358 | 0.101 | < 0.01 |
| 89858 | 1.5 | 0.2 | < 0.1 | 0.2 | 0.003 | 0.39 | 12.8 | 20 | 11.0 | 1.1 | 0.500 | 0.114 | < 0.01 |
| 89859 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.45 | 13.0 | 18 | 10.3 | 1.6 | 0.409 | 0.077 | < 0.01 |
| 89860 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.38 | 13.6 | 17 | 8.6 | 1.1 | 0.336 | 0.069 | < 0.01 |
| 89861 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 14.3 | 18 | 8.8 | 1.0 | 0.189 | 0.079 | < 0.01 |
| 89862 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.23 | 15.2 | 17 | 6.6 | 0.8 | 0.195 | 0.036 | 0.01 |
| 89863 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.39 | 15.4 | 17 | 11.0 | 1.2 | 0.381 | 0.092 | < 0.01 |
| 89864 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.25 | 11.3 | 19 | 7.7 | 0.7 | 0.229 | 0.072 | < 0.01 |
| 89865 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 8.3 | 21 | 4.9 | 0.4 | 0.199 | 0.067 | < 0.01 |
| 89866 | 1.0 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.17 | 6.8 | 32 | 7.0 | 0.7 | 0.299 | 0.061 | 0.02 |
| 89867 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.19 | 11.7 | 19 | 9.5 | 0.9 | 0.177 | 0.037 | < 0.01 |
| 89868 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.12 | 5.8 | 25 | 5.2 | 1.0 | 0.237 | 0.076 | 0.03 |
| 89869 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.06 | 7.3 | 22 | 1.7 | 0.4 | 0.196 | 0.053 | 0.03 |
| 89870 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.33 | 14.1 | 16 | 12.9 | 1.3 | 0.263 | 0.085 | < 0.01 |
| 89871 | 1.7 | 0.2 | 0.2 | 0.1 | 0.002 | 0.28 | 11.8 | 20 | 13.7 | 1.2 | 0.551 | 0.085 | < 0.01 |
| 89872 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 13.6 | 12 | 13.1 | 0.8 | 0.302 | 0.067 | 0.01 |
| 89873 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.25 | 18.5 | 14 | 10.7 | 1.0 | 0.176 | 0.033 | 0.01 |
| 89874 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 15.3 | 11 | 9.4 | 1.0 | 0.103 | 0.041 | < 0.01 |
| 89875 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.36 | 14.6 | 14 | 14.6 | 1.1 | 0.227 | 0.074 | < 0.01 |
| 89876 | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 2.8 | 27 | 7.3 | 0.9 | 0.396 | 0.074 | 0.06 |
| 89877 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 11.9 | 18 | 11.9 | 0.9 | 0.125 | 0.095 | 0.04 |
| 89878 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.10 | 11.6 | 20 | 10.3 | 0.7 | 0.0985 | 0.079 | 0.03 |
| 89879 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 20.7 | 21 | 9.8 | 0.6 | 0.117 | 0.051 | 0.01 |
| 89880 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.18 | 15.0 | 15 | 14.2 | 1.1 | 0.288 | 0.081 | 0.01 |
| 89881 | 1.1 | 0.2 | 1.6 | 1.9 | < 0.001 | 0.23 | 14.0 | 8 | 5.6 | 0.7 | 0.693 | 0.114 | < 0.01 |
| 89882 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 3.3 | 16 | 3.6 | 0.4 | 0.304 | 0.032 | 0.01 |
| 89883 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.06 | 6.0 | 23 | 5.7 | 0.7 | 0.220 | 0.074 | 0.08 |
| 89884 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 8.4 | 18 | 6.5 | 1.0 | 0.143 | 0.080 | 0.05 |
| 89885 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 3.2 | 24 | 5.0 | 0.4 | 0.344 | 0.053 | < 0.01 |
| 89886 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.23 | 14.0 | 20 | 12.6 | 1.0 | 0.187 | 0.097 | < 0.01 |
| 89887 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.13 | 13.4 | 21 | 9.0 | 0.9 | 0.294 | 0.069 | 0.01 |
| 89888 | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.11 | 8.7 | 19 | 8.2 | 0.9 | 0.143 | 0.080 | 0.04 |
| 89889 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 14.9 | 19 | 19.2 | 1.3 | 0.123 | 0.089 | 0.01 |
| 89890 | 1.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 19.8 | 20 | 19.5 | 1.8 | 0.152 | 0.084 | 0.01 |
| 89891 | 0.8 | < 0.1 | 1.2 | 0.7 | < 0.001 | 0.29 | 16.5 | 4 | 5.5 | 1.0 | 0.362 | 0.090 | < 0.01 |
| 89892 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.26 | 17.2 | 11 | 9.0 | 1.1 | 0.361 | 0.051 | < 0.01 |
| 89893 | 1.1 | 0.1 | 0.3 | 0.3 | < 0.001 | 0.27 | 17.7 | 9 | 9.5 | 1.1 | 0.223 | 0.063 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 89894 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.23 | 20.2 | 18 | 14.8 | 1.5 | 0.249 | 0.088 | 0.02 |
| 89895 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 19.4 | 20 | 12.2 | 1.1 | 0.0963 | 0.096 | 0.02 |
| 89896 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 15.8 | 17 | 15.7 | 1.1 | 0.147 | 0.123 | 0.01 |
| 89897 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 17.1 | 12 | 8.5 | 1.1 | 0.143 | 0.042 | < 0.01 |
| 89898 | 1.3 | 0.2 | 0.2 | < 0.1 | < 0.001 | < 0.05 | 8.7 | 20 | 8.6 | 0.6 | 0.565 | 0.065 | 0.02 |
| 89899 | 1.8 | 0.2 | 0.1 | < 0.1 | < 0.001 | 0.19 | 15.3 | 17 | 14.7 | 1.4 | 0.198 | 0.062 | 0.01 |
| 89900 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 18.8 | 17 | 32.4 | 1.2 | 0.401 | 0.042 | 0.02 |
| 89701 | 0.4 | < 0.1 | 1.3 | 0.2 | < 0.001 | < 0.05 | 8.0 | 6 | 2.4 | 0.2 | 0.731 | 0.025 | < 0.01 |
| 89702 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.11 | 10.4 | 21 | 12.7 | 1.1 | 0.272 | 0.133 | 0.05 |
| 89703 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 5.8 | 31 | 4.5 | 0.5 | 0.255 | 0.029 | 0.02 |
| 89704 | 1.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.06 | 9.6 | 21 | 7.7 | 0.9 | 0.218 | 0.084 | 0.02 |
| 89705 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 12.3 | 16 | 5.9 | 0.8 | 0.0928 | 0.055 | 0.01 |
| 89706 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 5.9 | 23 | 3.5 | 0.4 | 0.134 | 0.043 | 0.01 |
| 89707 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 15.3 | 16 | 11.5 | 1.4 | 0.248 | 0.069 | 0.01 |
| 89708 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 11.0 | 14 | 12.2 | 0.7 | 0.273 | 0.018 | < 0.01 |
| 89709 | 1.0 | 0.1 | 1.2 | 2.4 | < 0.001 | 0.29 | 13.6 | 8 | 9.4 | 0.6 | 0.731 | 0.064 | < 0.01 |
| 89710 | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.05 | 4.1 | 20 | 2.7 | 0.7 | 0.285 | 0.075 | 0.03 |
| 89711 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 11.4 | 24 | 2.0 | 0.3 | 0.165 | 0.016 | < 0.01 |
| 89712 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 12.6 | 17 | 8.2 | 0.9 | 0.251 | 0.084 | < 0.01 |
| 89713 | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.07 | 9.2 | 24 | 6.5 | 0.8 | 0.173 | 0.097 | 0.03 |
| 89714 | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 12.2 | 22 | 8.3 | 0.9 | 0.102 | 0.096 | 0.03 |
| 89715 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 17.7 | 19 | 8.6 | 1.0 | 0.165 | 0.074 | 0.01 |
| 89716 | 2.1 | 0.3 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | 18.5 | 24 | 3.9 | 0.7 | 0.140 | 0.004 | < 0.01 |
| 89717 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 13.4 | 18 | 9.3 | 0.9 | 0.181 | 0.083 | 0.01 |
| 89718 | 1.1 | 0.1 | 0.2 | < 0.1 | < 0.001 | 0.28 | 12.6 | 16 | 8.3 | 0.9 | 0.158 | 0.050 | < 0.01 |
| 89719 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 13.3 | 13 | 6.2 | 0.8 | 0.405 | 0.086 | < 0.01 |
| 89720 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 10.1 | 18 | 5.8 | 0.8 | 0.239 | 0.065 | < 0.01 |
| 89721 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 8.7 | 17 | 6.8 | 0.9 | 0.195 | 0.082 | 0.04 |
| 89722 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.16 | 21.7 | 23 | 7.0 | 0.6 | 0.137 | 0.083 | < 0.01 |
| 89723 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 9.0 | 22 | 6.0 | 0.7 | 0.134 | 0.060 | < 0.01 |
| 89724 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.11 | 7.8 | 20 | 3.9 | 0.4 | 0.185 | 0.016 | < 0.01 |
| 89725 | 1.1 | 0.1 | 0.2 | < 0.1 | < 0.001 | 0.13 | 9.9 | 15 | 3.7 | 0.5 | 0.210 | 0.029 | < 0.01 |
| 89977 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.55 | 16.1 | 13 | 10.6 | 1.4 | 0.133 | 0.065 | < 0.01 |
| 89978 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 9.6 | 15 | 8.0 | 0.8 | 0.160 | 0.071 | < 0.01 |
| 89979 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.36 | 13.9 | 14 | 9.7 | 1.0 | 0.168 | 0.071 | < 0.01 |
| 89980 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 10.0 | 17 | 7.9 | 1.1 | 0.209 | 0.077 | 0.05 |
| 89981 | 0.9 | 0.1 | 1.8 | 1.5 | < 0.001 | 0.17 | 20.6 | 10 | 4.0 | 0.7 | 1.38 | 0.107 | < 0.01 |
| 89982 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.31 | 12.4 | 15 | 10.2 | 1.0 | 0.234 | 0.069 | < 0.01 |
| 89983 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 14.0 | 14 | 12.5 | 1.2 | 0.251 | 0.080 | < 0.01 |
| 89984 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 15.4 | 10 | 7.5 | 0.9 | 0.191 | 0.048 | 0.01 |
| 89985 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 13.4 | 10 | 7.5 | 1.1 | 0.136 | 0.059 | < 0.01 |
| 89986 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.36 | 15.6 | 10 | 8.6 | 1.2 | 0.0994 | 0.046 | < 0.01 |
| 89987 | 2.3 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 11.7 | 11 | 11.5 | 1.2 | 0.121 | 0.097 | < 0.01 |
| 89988 | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.46 | 17.0 | 8 | 7.7 | 1.1 | 0.0714 | 0.014 | < 0.01 |
| 89989 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 11.7 | 14 | 10.6 | 1.0 | 0.141 | 0.068 | < 0.01 |
| 89990 | 1.1 | 0.2 | 1.1 | 0.4 | < 0.001 | 0.29 | 12.1 | 8 | 8.1 | 0.8 | 0.794 | 0.075 | < 0.01 |
| 89991 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 13.9 | 11 | 8.8 | 1.1 | 0.254 | 0.085 | < 0.01 |
| 89992 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.22 | 10.9 | 15 | 7.3 | 1.3 | 0.248 | 0.116 | 0.02 |
| 89993 | 2.3 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.28 | 14.1 | 10 | 9.4 | 1.2 | 0.264 | 0.091 | < 0.01 |
| 89994 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.44 | 15.3 | 10 | 10.7 | 1.2 | 0.254 | 0.065 | 0.02 |
| 89995 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 12.4 | 10 | 7.0 | 1.2 | 0.107 | 0.071 | < 0.01 |
| 89996 | 2.0 | 0.3 | < 0.1 | 0.1 | 0.002 | 0.26 | 13.8 | 13 | 10.6 | 1.3 | 0.126 | 0.089 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 89997 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 13.3 | 11 | 6.5 | 1.0 | 0.135 | 0.073 | < 0.01 |
| 89998 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 11.7 | 13 | 7.0 | 1.0 | 0.156 | 0.085 | < 0.01 |
| 89999 | 0.9 | 0.1 | 1.2 | 0.4 | < 0.001 | 0.25 | 11.9 | 15 | 6.9 | 0.7 | 0.997 | 0.111 | 0.01 |
| 90000 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 10.5 | 15 | 5.6 | 0.8 | 0.210 | 0.062 | < 0.01 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | > 2000 | 8.1 | 0.05 | 0.22 | 2.32 | 0.05 | 0.94 | 3.3 | 86 | 18.2 | 931 | 26.2 | 0.3 | 41.9 | | 1.0 | | 34.3 | 3.04 | 8.5 | 0.67 | 1600 | 16.5 | 753 |
| GXR-1 Cert | 3300 | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| GXR-1 Meas | > 2000 | 7.6 | 0.047 | 0.21 | 2.00 | 0.04 | 0.83 | 3.3 | 79 | 12.3 | 853 | 23.5 | 0.3 | 38.9 | | 0.9 | | 31.2 | 2.56 | 7.8 | 0.61 | 1540 | 16.3 | 697 |
| GXR-1 Cert | 3300 | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 478 | 11.2 | 0.56 | 1.68 | 6.72 | 3.73 | 1.04 | < 0.1 | 84 | 58.5 | 150 | 3.02 | 1.2 | 38.5 | | 1.9 | | 3.63 | 2.57 | 14.1 | 1.52 | 19.8 | 5.9 | 73.1 |
| GXR-4 Cert | 470 | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| GXR-4 Meas | 441 | 11.1 | 0.493 | 1.44 | 4.89 | 2.34 | 0.88 | 0.1 | 86 | 65.5 | 154 | 2.72 | 1.3 | 39.8 | | 1.8 | | 3.31 | 2.09 | 14.1 | 1.09 | 19.0 | 5.7 | 71.5 |
| GXR-4 Cert | 470 | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| SDC-1 Meas | 34.2 | 1.62 | 0.99 | 7.83 | 2.73 | 1.03 | < 0.1 | 41 | 65.2 | 847 | 4.64 | 4.64 | | 36.4 | | 3.0 | | < 0.05 | | 17.7 | | 0.25 | | 101 |
| SDC-1 Cert | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | 4.82 | | 38.0 | | 3.00 | | 0.0410 | | 17.9 | | 2.60 | | 103 |
| SDC-1 Meas | 35.0 | 1.43 | 1.00 | 7.79 | 2.04 | 0.99 | < 0.1 | 39 | 60.5 | 816 | 4.45 | 4.45 | | 32.9 | | 3.0 | | < 0.05 | | 17.6 | | 0.26 | | 98.5 |
| SDC-1 Cert | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | 4.82 | | 38.0 | | 3.00 | | 0.0410 | | 17.9 | | 2.60 | | 103 |
| SCO-1 Meas | 47.2 | 0.76 | 1.66 | 7.92 | 2.40 | 1.99 | 0.2 | 122 | 71.4 | 413 | 3.80 | 3.80 | | 28.3 | | 2.0 | | 0.12 | | 12.1 | | 0.42 | | 109 |
| SCO-1 Cert | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | 3.59 | | 27.0 | | 1.84 | | 0.134 | | 10.5 | | 0.370 | | 103 |
| SCO-1 Meas | 45.5 | 0.672 | 1.60 | 7.29 | 1.98 | 1.87 | 0.2 | 119 | 68.8 | 413 | 3.56 | 3.56 | | 27.6 | | 1.7 | | 0.14 | | 11.7 | | 0.42 | | 115 |
| SCO-1 Cert | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | 3.59 | | 27.0 | | 1.84 | | 0.134 | | 10.5 | | 0.370 | | 103 |
| GXR-6 Meas | 68 | 35.7 | 0.11 | 0.61 | > 10.0 | 1.93 | 0.18 | 0.1 | 128 | 82.7 | 1010 | 5.72 | 2.0 | 23.9 | | 2.0 | | 0.34 | 4.15 | 13.9 | 0.70 | 0.17 | 0.9 | 129 |
| GXR-6 Cert | 95.0 | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| GXR-6 Meas | 79 | 37.2 | 0.110 | 0.66 | > 10.0 | 1.92 | 0.19 | 0.2 | 123 | 92.0 | 1060 | 5.77 | 1.8 | 24.9 | | 1.1 | | 0.35 | 4.19 | 14.4 | 0.73 | 0.20 | 1.0 | 126 |
| GXR-6 Cert | 95.0 | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| OREAS 45P Meas | 192 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 45P Cert | 54.0 | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 1170 | | | | | | | | | 0.41 | | 124 | | | 134 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | | | | | | | 0.86 | | 75 | | | 133 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 87513 Orig | 7 | 20.1 | 2.83 | 1.68 | 8.65 | 2.07 | 2.28 | 0.1 | 38 | 152 | 653 | 5.11 | 3.0 | 55.7 | 1.7 | 1.5 | 0.6 | 0.09 | 1.47 | 16.3 | 1.24 | < 0.02 | 0.5 | 53.9 |
| 87513 Dup | 7 | 23.3 | 2.99 | 1.59 | 8.82 | 2.29 | 1.99 | 0.1 | 39 | 140 | 706 | 4.87 | 3.0 | 50.5 | 1.6 | 1.4 | 0.6 | 0.06 | 1.49 | 16.8 | 1.25 | < 0.02 | 0.8 | 54.7 |
| 87527 Orig | 43 | 19.2 | 2.64 | 1.68 | 6.28 | 1.94 | 1.63 | < 0.1 | 60 | 225 | 560 | 4.47 | 4.2 | 70.4 | 1.1 | 1.5 | 0.4 | < 0.05 | 1.30 | 17.7 | 0.73 | < 0.02 | 0.5 | 47.0 |
| 87527 Dup | 38 | 20.8 | 2.75 | 1.88 | 8.15 | 2.12 | 2.07 | 0.1 | 46 | 231 | 569 | 4.65 | 3.3 | 80.7 | 1.5 | 1.7 | 0.6 | 0.07 | 1.54 | 18.8 | 1.12 | < 0.02 | 0.5 | 51.3 |
| 87548 Orig | < 5 | 22.4 | 2.25 | 1.66 | 8.80 | 1.63 | 2.02 | < 0.1 | 24 | 115 | 448 | 6.50 | 1.6 | 49.8 | 1.6 | 1.5 | 0.5 | < 0.05 | 2.39 | 17.3 | 0.80 | < 0.02 | 0.5 | 60.2 |
| 87548 Dup | 8 | 24.0 | 2.30 | 1.72 | 8.88 | 1.62 | 2.06 | < 0.1 | 18 | 105 | 450 | 6.52 | 0.9 | 50.3 | 1.6 | 1.4 | 0.5 | < 0.05 | 2.41 | 17.3 | 0.81 | < 0.02 | 0.4 | 62.8 |
| 87562 Orig | < 5 | 12.3 | 2.86 | 3.16 | 9.44 | 0.70 | 4.93 | 0.1 | 118 | 192 | 745 | 7.37 | 1.1 | 57.7 | 2.0 | 1.0 | 0.7 | 0.07 | 0.79 | 31.1 | 0.74 | < 0.02 | 0.7 | 63.9 |
| 87562 Dup | < 5 | 12.3 | 2.97 | 3.25 | 9.39 | 0.67 | 4.76 | < 0.1 | 130 | 216 | 755 | 7.35 | 1.1 | 55.5 | 2.0 | 1.0 | 0.7 | 0.07 | 0.77 | 30.0 | 0.73 | < 0.02 | 0.8 | 65.6 |
| 87583 Orig | < 5 | 10.6 | 2.62 | 2.82 | 7.45 | 1.21 | 3.23 | < 0.1 | 24 | 239 | 649 | 7.36 | 1.3 | 91.8 | 1.7 | 1.3 | 0.7 | < 0.05 | 0.83 | 24.7 | 1.51 | 0.06 | 0.5 | 45.2 |
| 87583 Dup | 5 | 10.2 | 2.48 | 2.50 | 6.03 | 1.04 | 3.01 | 0.1 | 169 | 313 | 646 | 6.68 | 5.8 | 86.8 | 1.4 | 1.2 | 0.5 | < 0.05 | 0.65 | 22.5 | 1.09 | 0.05 | 1.1 | 43.4 |
| 87818 Orig | < 5 | 31.5 | 2.42 | 3.05 | 9.83 | 1.42 | 2.99 | 0.2 | 33 | 182 | 1190 | 7.66 | 1.4 | 101 | 2.6 | 2.8 | 1.0 | 0.08 | 1.30 | 42.3 | 2.55 | 0.07 | 0.9 | 91.3 |
| 87818 Dup | < 5 | 32.0 | 2.55 | 3.10 | 9.97 | 1.44 | 3.08 | 0.2 | 49 | 186 | 1240 | 7.88 | 1.4 | 102 | 2.5 | 2.4 | 1.0 | 0.08 | 1.28 | 42.6 | 2.58 | 0.06 | 1.1 | 93.9 |
| 87844 Orig | < 5 | 30.0 | 2.98 | 1.92 | 8.96 | 0.75 | 3.12 | 0.5 | 54 | 109 | 1400 | 9.39 | 0.8 | 102 | 2.8 | 2.3 | 1.1 | < 0.05 | 1.34 | 54.6 | 2.76 | 0.10 | 1.2 | 127 |
| 87844 Dup | 5 | 29.2 | > 3.00 | 1.89 | 9.50 | 0.79 | 3.28 | 0.5 | 30 | 108 | 1460 | 9.87 | 0.6 | 102 | 2.7 | 2.5 | 1.1 | 0.10 | 1.35 | 55.6 | 2.88 | 0.10 | 1.0 | 128 |
| 87858 Orig | < 5 | 26.5 | 1.29 | 2.23 | 5.73 | 1.07 | 3.63 | 0.4 | 97 | 254 | 3770 | 7.73 | 0.5 | 149 | 3.0 | 3.5 | 1.2 | 0.11 | 1.63 | 48.0 | 3.60 | 0.09 | 1.4 | 103 |
| 87858 Dup | 8 | 27.4 | 1.28 | 2.22 | 5.83 | 1.11 | 3.72 | 0.4 | 92 | 279 | 3880 | 7.92 | 2.5 | 156 | 3.3 | 2.8 | 1.3 | 0.10 | 1.67 | 50.3 | 3.73 | 0.10 | 1.6 | 105 |
| 87879 Orig | < 5 | 23.8 | 2.60 | 1.80 | 8.35 | 1.87 | 2.21 | 0.2 | 51 | 129 | 611 | 4.88 | 2.5 | 55.9 | 1.4 | 1.5 | 0.5 | 0.08 | 1.31 | 21.3 | 1.02 | 0.05 | 0.8 | 54.0 |
| 87879 Dup | 5 | 23.5 | 2.56 | 1.64 | 6.15 | 1.28 | 2.11 | 0.2 | 37 | 146 | 622 | 4.87 | 2.6 | 57.1 | 1.1 | 1.3 | 0.4 | 0.08 | 1.20 | 22.0 | 0.75 | 0.06 | 0.6 | 54.7 |
| 87893 Orig | 7 | 27.8 | 2.49 | 2.00 | 8.29 | 1.57 | 1.91 | 0.1 | 43 | 1 | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A10-5388

Quality Control

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|---------------------------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87928 Orig | < 5 | 10.0 | 2.96 | 1.68 | 7.22 | 0.49 | 2.01 | 0.1 | 94 | 109 | 710 | 7.09 | 1.6 | 28.1 | 2.9 | 0.9 | 1.0 | < 0.05 | 0.75 | 20.0 | 1.61 | 0.04 | 0.9 | 51.6 |
| 87928 Dup | < 5 | 8.5 | 2.75 | 1.40 | 4.31 | 0.37 | 1.72 | 0.1 | 131 | 120 | 667 | 6.61 | 2.1 | 27.2 | 1.9 | 0.8 | 0.7 | < 0.05 | 0.48 | 19.1 | 0.85 | 0.04 | 0.8 | 48.1 |
| 87948 Orig | < 5 | 18.0 | 1.87 | 0.95 | 5.89 | 1.50 | 1.56 | 0.2 | 64 | 93.0 | 587 | 3.65 | 0.3 | 35.5 | 1.3 | 1.1 | 0.5 | 0.09 | 1.65 | 13.2 | 1.09 | 0.08 | 0.7 | 36.3 |
| 87948 Dup | 6 | 19.0 | 1.96 | 0.99 | 5.97 | 1.52 | 1.62 | 0.2 | 44 | 81.1 | 620 | 3.77 | 2.3 | 36.6 | 1.3 | 1.0 | 0.5 | 0.11 | 1.72 | 13.8 | 1.08 | 0.07 | 0.6 | 39.6 |
| 87975 Orig | 8 | 15.9 | 1.84 | 1.55 | 6.00 | 1.59 | 1.57 | 0.2 | 37 | 133 | 563 | 4.42 | 2.2 | 65.4 | 1.5 | 1.4 | 0.6 | 0.07 | 1.61 | 18.0 | 1.12 | 0.08 | 0.2 | 50.3 |
| 87975 Dup | 5 | 14.9 | 1.75 | 1.50 | 5.78 | 1.52 | 1.47 | 0.1 | 35 | 126 | 538 | 4.19 | 1.9 | 61.2 | 1.4 | 1.2 | 0.5 | 0.07 | 1.52 | 17.0 | 1.13 | 0.09 | < 0.1 | 46.0 |
| 87989 Orig | < 5 | 39.4 | 0.82 | 7.49 | 6.05 | 0.40 | 7.07 | 0.2 | 189 | 738 | 1380 | 8.35 | 2.3 | 289 | 1.4 | 1.1 | 0.5 | < 0.05 | 2.43 | 55.8 | 0.99 | < 0.02 | 0.8 | 66.7 |
| 87989 Dup | 12 | 39.0 | 0.77 | 7.15 | 5.82 | 0.39 | 6.99 | 0.1 | 158 | 732 | 1310 | 7.91 | 2.1 | 275 | 1.4 | 1.0 | 0.5 | 0.06 | 2.29 | 53.0 | 0.93 | 0.02 | 0.8 | 62.9 |
| 87710 Orig | 7 | 17.5 | 2.10 | 0.88 | 6.22 | 1.39 | 1.18 | 0.2 | 48 | 91.2 | 409 | 4.63 | 2.3 | 29.9 | 1.4 | 1.4 | 0.5 | 0.11 | 1.71 | 11.8 | 1.12 | 0.06 | 0.8 | 47.0 |
| 87710 Dup | < 5 | 17.0 | 2.07 | 0.86 | 6.15 | 1.38 | 1.18 | 0.2 | 53 | 93.3 | 408 | 4.67 | 2.7 | 29.9 | 1.3 | 1.3 | 0.5 | 0.14 | 1.73 | 11.7 | 1.08 | 0.07 | 1.1 | 49.3 |
| 87724 Orig | 8 | 27.3 | 2.46 | 2.21 | 6.52 | 0.75 | 2.48 | 0.3 | 97 | 157 | 3660 | 6.66 | 2.0 | 83.5 | 2.4 | 1.8 | 1.0 | < 0.05 | 1.48 | 36.3 | 2.88 | 0.08 | 1.8 | 117 |
| 87724 Dup | 5 | 27.1 | 2.51 | 2.18 | 6.46 | 0.73 | 2.51 | 0.3 | 107 | 158 | 3480 | 6.61 | 2.1 | 81.7 | 2.3 | 1.9 | 0.9 | < 0.05 | 1.41 | 35.5 | 2.79 | 0.07 | 1.9 | 112 |
| 87745 Orig | 5 | 13.0 | 2.07 | 0.78 | 5.57 | 1.16 | 1.18 | 0.1 | 54 | 100 | 355 | 3.75 | 4.0 | 25.6 | 1.3 | 1.2 | 0.4 | 0.07 | 1.11 | 10.4 | 0.99 | 0.05 | 0.5 | 78.0 |
| 87745 Dup | 7 | 12.5 | 2.05 | 0.78 | 5.62 | 1.49 | 1.17 | < 0.1 | 37 | 58.1 | 351 | 3.77 | 0.2 | 25.2 | 1.2 | 1.3 | 0.5 | < 0.05 | 1.12 | 10.4 | 0.96 | 0.04 | 0.4 | 77.6 |
| 87760 Orig | 9 | 12.5 | 1.84 | 0.67 | 5.36 | 1.67 | 1.24 | 0.1 | 60 | 165 | 831 | 4.78 | 3.8 | 23.3 | 4.5 | 1.3 | 1.9 | < 0.05 | 1.68 | 9.0 | 5.44 | 0.11 | 1.4 | 46.6 |
| 87760 Dup | 10 | 11.7 | 1.78 | 0.66 | 5.29 | 1.61 | 1.21 | 0.1 | 68 | 147 | 816 | 4.68 | 4.2 | 22.4 | 4.5 | 1.2 | 1.8 | < 0.05 | 1.69 | 8.6 | 5.43 | 0.11 | 1.5 | 45.1 |
| 87783 Orig | < 5 | 15.9 | 2.74 | 0.74 | 7.11 | 1.23 | 1.48 | 0.1 | 60 | 72.6 | 355 | 3.76 | 3.2 | 19.1 | 1.6 | 0.9 | 0.6 | 0.09 | 0.95 | 10.9 | 1.02 | 0.05 | 1.0 | 39.6 |
| 87783 Dup | 13 | 15.0 | 2.76 | 0.75 | 7.14 | 1.22 | 1.47 | 0.1 | 81 | 76.4 | 352 | 3.72 | 4.2 | 19.1 | 1.6 | 0.8 | 0.6 | 0.35 | 0.94 | 10.7 | 1.02 | 0.05 | 1.1 | 34.6 |
| 89909 Orig | 5 | 14.6 | 2.17 | 0.96 | 6.97 | 1.93 | 1.37 | 0.1 | 37 | 87.0 | 353 | 4.00 | 2.4 | 23.7 | 1.3 | 1.3 | 0.5 | 0.07 | 1.50 | 7.9 | 0.97 | 0.08 | 0.8 | 35.9 |
| 89909 Dup | 6 | 14.4 | 2.19 | 0.96 | 7.10 | 1.85 | 1.35 | 0.1 | 40 | 87.4 | 366 | 4.06 | 2.6 | 23.5 | 1.3 | 1.3 | 0.5 | 0.08 | 1.51 | 7.8 | 1.00 | 0.08 | 0.8 | 35.0 |
| 89923 Orig | < 5 | 20.4 | 2.16 | 1.03 | 6.60 | 2.07 | 2.09 | 0.2 | 37 | 85.3 | 658 | 4.13 | 0.6 | 28.9 | 1.4 | 1.4 | 0.5 | 0.07 | 2.23 | 14.4 | 1.14 | 0.07 | 0.9 | 64.0 |
| 89923 Dup | < 5 | 20.1 | 2.18 | 1.04 | 6.68 | 2.11 | 2.07 | 0.2 | 48 | 92.2 | 671 | 4.24 | 4.2 | 28.4 | 1.4 | 1.2 | 0.5 | 0.09 | 2.24 | 14.2 | 1.16 | 0.07 | 0.9 | 66.0 |
| 89945 Orig | 12 | 11.5 | 1.61 | 1.16 | 4.61 | 2.34 | 0.33 | 0.2 | 67 | 57.8 | 241 | 4.68 | 7.0 | 29.3 | 1.8 | 2.1 | 0.6 | 0.07 | 2.20 | 16.9 | 0.56 | 0.04 | 1.0 | 85.4 |
| 89945 Dup | 14 | 12.6 | 1.60 | 1.38 | 6.65 | 2.64 | 0.42 | 0.3 | 64 | 59.2 | 240 | 4.89 | 5.6 | 30.5 | 2.5 | 2.5 | 0.9 | 0.08 | 2.64 | 17.4 | 0.87 | 0.05 | 1.2 | 88.4 |
| 89959 Orig | 6 | 14.4 | 2.41 | 1.07 | 7.17 | 2.11 | 1.43 | 0.1 | 27 | 65.2 | 460 | 4.71 | 1.7 | 30.5 | 1.6 | 1.4 | 0.6 | 0.05 | 1.20 | 13.6 | 1.35 | 0.06 | 1.0 | 52.5 |
| 89959 Dup | 6 | 15.1 | 2.41 | 1.04 | 6.88 | 2.09 | 1.44 | 0.1 | 29 | 62.7 | 461 | 4.67 | 1.9 | 30.3 | 1.5 | 1.6 | 0.6 | 0.06 | 1.16 | 13.8 | 1.22 | 0.06 | 0.6 | 59.0 |
| 89739 Orig | < 5 | 26.3 | 2.57 | 3.56 | 8.55 | 0.27 | 2.26 | 0.1 | 176 | 64.0 | 918 | 10.1 | 0.7 | 51.5 | 2.1 | 1.1 | 0.8 | < 0.05 | 0.78 | 56.1 | 1.61 | 0.03 | < 0.1 | 83.7 |
| 89739 Dup | < 5 | 26.3 | 2.54 | 3.50 | 8.43 | 0.26 | 2.23 | < 0.1 | 195 | 55.9 | 903 | 9.81 | 0.7 | 50.8 | 2.0 | 1.3 | 0.8 | < 0.05 | 0.75 | 54.1 | 1.54 | 0.02 | 0.7 | 85.8 |
| 89754 Orig | < 5 | 25.8 | 2.16 | 2.20 | 6.64 | 1.28 | 2.20 | 0.1 | 65 | 166 | 692 | 5.66 | 1.2 | 85.4 | 1.8 | 1.8 | 0.7 | 0.05 | 1.59 | 29.3 | 1.79 | 0.05 | 0.1 | 80.9 |
| 89754 Dup | < 5 | 25.3 | 2.17 | 2.18 | 6.59 | 1.27 | 2.14 | 0.1 | 67 | 168 | 714 | 5.60 | 0.1 | 82.5 | 1.8 | 1.9 | 0.7 | 0.06 | 1.55 | 28.8 | 1.66 | 0.04 | 0.2 | 83.8 |
| 89775 Orig | 10 | 22.0 | 1.52 | 1.78 | 5.70 | 1.51 | 1.74 | 0.2 | 88 | 198 | 2000 | 4.59 | < 0.1 | 91.8 | 1.4 | 1.6 | 0.6 | 0.09 | 2.19 | 25.0 | 1.60 | 0.09 | 0.7 | 81.2 |
| 89775 Dup | 8 | 22.4 | 1.57 | 1.85 | 5.95 | 1.59 | 1.79 | 0.3 | 100 | 223 | 2080 | 4.83 | 0.2 | 95.4 | 1.5 | 1.8 | 0.6 | 0.08 | 2.30 | 26.1 | 1.68 | 0.10 | 0.5 | 86.0 |
| 89801 Orig | 10 | 20.2 | 2.26 | 1.57 | 6.83 | 1.48 | 2.10 | 0.1 | 58 | 95.5 | 696 | 4.65 | 3.5 | 41.3 | 1.9 | 1.6 | 0.8 | 0.05 | 2.13 | 17.6 | 1.98 | 0.04 | 0.8 | 59.5 |
| 89801 Dup | 6 | 21.1 | 2.38 | 1.65 | 7.07 | 1.52 | 2.14 | 0.1 | 60 | 93.4 | 729 | 4.77 | 2.8 | 42.1 | 1.9 | 1.5 | 0.8 | 0.07 | 2.14 | 17.6 | 2.06 | 0.04 | 0.6 | 63.2 |
| 89823 Orig | < 5 | 16.9 | 1.96 | 0.59 | 6.16 | 1.57 | 1.12 | 0.2 | 46 | 91.5 | 367 | 2.56 | 4.4 | 25.1 | 0.9 | 1.3 | 0.3 | < 0.05 | 1.32 | 11.7 | 0.60 | 0.05 | < 0.1 | 40.5 |
| 89823 Dup | 12 | 18.4 | 2.04 | 0.68 | 7.48 | 1.65 | 1.20 | 0.1 | 50 | 77.1 | 365 | 2.65 | 4.4 | 25.7 | 1.2 | 1.4 | 0.4 | 0.06 | 1.46 | 12.1 | 0.89 | 0.04 | < 0.1 | 42.4 |
| 89837 Orig | 27 | 26.2 | 1.74 | 1.09 | 7.17 | 1.80 | 1.50 | 0.3 | 75 | 123 | 5140 | 7.20 | 3.9 | 53.9 | 1.4 | 1.4 | 0.5 | 0.14 | 2.53 | 19.4 | 1.21 | 0.06 | 1.0 | 65.2 |
| 89837 Dup | 20 | 26.6 | 1.74 | 1.08 | 7.06 | 1.81 | 1.51 | 0.3 | 75 | 123 | 5070 | 7.07 | 4.1 | 53.4 | 1.6 | 1.2 | 0.6 | 1.91 | 2.51 | 19.3 | 1.16 | 0.06 | 0.7 | 67.5 |
| 89858 Orig | 14 | 28.6 | 2.21 | 2.21 | 7.97 | 1.62 | 1.54 | 0.2 | 101 | 188 | 843 | 5.50 | 2.9 | 90.0 | 1.9 | 2.2 | 0.7 | 0.44 | 1.87 | 28.0 | 1.85 | 0.07 | 0.7 | 88.9 |
| 89858 Dup | < 5 | 29.5 | 2.24 | 2.21 | 8.02 | 1.75 | 1.59 | 0.2 | 107 | 184 | 862 | 5.61 | 2.9 | 93.2 | 2.0 | 2.5 | 0.7 | 0.07 | 1.90 | 28.2 | 1.88 | 0.06 | 0.8 | 87.0 |
| 89884 Orig | < 5 | 29.6 | 1.68 | 2.47 | 6.80 | 0.89 | 3.18 | 0.1 | 62 | 90.1 | 1040 | 6.09 | 1.3 | 53.8 | 1.7 | 1.4 | 0.7 | < 0.05 | 0.85 | 32.8 | 1.72 | 0.03 | 0.2 | 60.2 |
| 89884 Dup | < 5 | 31.3 | 1.78 | 2.62 | 7.04 | 0.91 | 3.29 | 0.2 | 63 | 88.7 | 1110 | 6.34 | 1.0 | 55.2 | 1.8 | 1.5 | 0.7 | 0.05 | 0.89 | 33.9 | 1.74 | 0.03 | < 0.1 | 64.1 |
| 89898 Orig | < 5 | 33.1 | 2.12 | 3.21 | 8.46 | 0.68 | 2.77 | < 0.1 | 130 | 95.4 | 1420 | 8.80 | 1.7 | 59.9 | 1.9 | 1.5 | 0.7 | < 0.05 | 0.75 | 55.7 | 1.76 | 0.02 | < 0.1 | 77.4 |
| 89898 Dup | 10 | 34.2 | 2.13 | 3.28 | 8.61 | 0.70 | 2.82 | < 0.1 | 105 | 88.3 | 1440 | 8.95 | 1.3 | 60.0 | 1.8 | 1.5 | 0.7 | 0.16 | 0.77 | 57.2 | 1.83 | 0.02 | < 0.1 | 76.8 |
| 89719 Orig | 5 | 27.8 | 2.45 | 2.68 | 7.98 | 1.48 | 1.94 | 0.1 | 43 | 154 | 976 | 6.05 | 1.2 | 110 | 1.9 | 2.2 | 0.7 | < 0.05 | 1.50 | 35.3 | 1.84 | 0.05 | 0.5 | 54.7 |
| 89719 Dup | < 5 | 26.8 | 2.48 | 2.41 | 4.36 | 1.28 | 1.64 | 0.2 | 49 | 241 | 971 | 5.76 | 3.2 | 111 | 1.2 | 2.2 | 0.4 | < 0.05 | 1.09 | 34.9 | 0.99 | 0.04 | 1.1 | 50.4 |
| 89984 Orig | 9 | 17.4 | 1.94 | 0.92 | 6.43 | 1.65 | 1.09 | 0.1 | 45 | 74.6 | 486 | 5.70 | 3.7 | 27.9 | 1.5 | 1.6 | 0.5 | 0.06 | 1.36 | 14.3 | 1.11 | 0.05 | 1.0 | 57.3 |
| 89984 Dup | < 5 | 17.5 | 1.93 | 0.95 | 6.60 | 1.75 | 1.07 | < 0.1 | 35 | 64.9 | 497 | 5.86 | < 0.1 | 28.4 | 1.5 | 1.6 | 0.5 | < 0.05 | 1.41 | 14.8 | 1.11 | 0.06 | 1.0 | 64.9 |
| 90000 Orig | < 5 | 21.7 | 2.15 | 1.78 | 6.34 | 0.97 | 1.88 | < 0.1 | 60 | 89.2 | 548 | 5.08 | 2.3 | 42.5 | 1.8 | 1.3 | 0.7 | < 0.05 | 1.45 | 17.1 | 1.97 | 0.03 | 0.4 | 54.7 |
| 90000 Dup | 7 | 23.4 | 2.34 | 1.91 | 6.85 | 1.03 | 2.00 | < 0.1 | 60 | 89.5 | 580 | 5.43 | 2.0 | 45.6 | 1.9 | 1.5 | 0.7 | 0.05 | 1.54 | 18.0 | 2.11 | 0.02 | 0.4 | 61.6 |
| Method Blank Method Blank | < 5 | < 0.5 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.1 | < 1 | < 0.5 | < 1 | < 0.01 | < 0.1 | < 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.05 | < 0.1 | < 0 | | | |

Activation Laboratories Ltd. Report: A10-5388

Quality Control

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | |
| GXR-1 Meas | 5.9 | 435 | 3.1 | 32.7 | 308 | 37 | 0.6 | 18.5 | 0.9 | 32 | 50.0 | 13.1 | 756 | 7.6 | 15.9 | | 9.0 | 3.0 | 4.6 | 0.8 | 5.3 | 1130 | | 0.4 | |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 | |
| GXR-1 Meas | 7.9 | 425 | 2.6 | 28.7 | 280 | 30 | 1.1 | 17.8 | 0.8 | 30 | 26.6 | 13.1 | 631 | 6.8 | 17.1 | | 7.7 | 2.6 | 4.1 | 0.7 | 4.9 | 1010 | | 0.4 | |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 19.3 | 98.5 | 155 | 14.9 | 215 | 46 | 10.0 | 320 | 0.2 | 7 | 4.8 | 1.0 | 163 | 59.7 | 111 | | 42.9 | 6.6 | 5.2 | 0.6 | 3.0 | 6280 | | 0.2 | |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 | |
| GXR-4 Meas | 20.1 | 98.9 | 154 | 10.3 | 225 | 46 | 10.0 | 322 | 0.2 | 8 | 4.8 | 1.2 | 141 | 34.8 | 89.5 | | 26.9 | 4.4 | 3.5 | 0.4 | 2.2 | 5990 | | 0.1 | |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 | |
| SDC-1 Meas | | 0.4 | | 35.4 | 172 | 45 | | < 0.1 | | < 1 | < 0.1 | | 638 | | | | | | | | | | | 29.6 | |
| SDC-1 Cert | | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | | | | 30.0 |
| SDC-1 Meas | | < 0.1 | | 33.3 | 172 | 31 | | < 0.1 | | < 1 | < 0.1 | | 600 | | | | | | | | | | | | 28.3 |
| SDC-1 Cert | | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | | | | 30.0 |
| SCO-1 Meas | | 12.7 | | 22.4 | 174 | 115 | | 0.8 | | 4 | 1.8 | | 586 | | | | | | | | | | | | 29.4 |
| SCO-1 Cert | | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | | | | 28.7 |
| SCO-1 Meas | | 11.7 | | 20.9 | 171 | 58 | | 1.3 | | 4 | 0.9 | | 578 | | | | | | | | | | | | 33.3 |
| SCO-1 Cert | | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | | | | 28.7 |
| GXR-6 Meas | 30.2 | 263 | 90.3 | 13.8 | 37.4 | 93 | 0.6 | 0.5 | < 0.1 | < 1 | 1.1 | 0.1 | 1280 | 13.5 | 36.3 | | 13.0 | 2.7 | 2.7 | 0.4 | 2.6 | 68.8 | | 0.3 | |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 | |
| GXR-6 Meas | 34.8 | 273 | 92.3 | 14.2 | 39.6 | 81 | 0.5 | 0.7 | < 0.1 | < 1 | 0.4 | 0.1 | 1380 | 13.2 | 42.1 | | 13.0 | 2.7 | 2.8 | 0.4 | 2.7 | 68.6 | | 0.3 | |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 | |
| OREAS 45P Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 45P Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | < 0.1 | | | | | | < 0.1 | | | | | | | | | | | | | | | | 703 | |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | | | | 2327 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87513 Orig | 19.1 | 1.2 | 74.3 | 15.6 | 298 | 125 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 650 | 32.8 | 64.3 | 8.8 | 27.5 | 5.0 | 4.3 | 0.5 | 3.2 | 29.4 | 1.0 | 0.2 | |
| 87513 Dup | 22.7 | 1.7 | 82.5 | 17.0 | 314 | 134 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 703 | 34.7 | 67.8 | 9.6 | 30.3 | 5.3 | 4.4 | 0.6 | 3.2 | 26.4 | 1.1 | 0.2 | |
| 87527 Orig | 21.7 | 2.6 | 48.2 | 9.5 | 243 | 170 | 16.4 | 0.1 | < 0.1 | 1 | < 0.1 | 0.3 | 614 | 13.8 | 31.4 | 4.4 | 14.4 | 3.0 | 2.6 | 0.4 | 2.0 | 29.0 | 0.8 | 0.2 | |
| 87527 Dup | 21.5 | 1.1 | 77.3 | 15.1 | 289 | 151 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 643 | 31.5 | 61.5 | 8.4 | 26.3 | 4.7 | 3.9 | 0.5 | 2.9 | 28.7 | 0.7 | 0.2 | |
| 87548 Orig | 23.3 | < 0.1 | 57.0 | 14.2 | 262 | 72 | 2.2 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 566 | 16.6 | 33.4 | 4.6 | 14.5 | 2.9 | 2.8 | 0.4 | 2.6 | 25.7 | 0.2 | 0.2 | |
| 87548 Dup | 26.5 | 1.0 | 60.2 | 15.1 | 274 | 49 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 563 | 17.3 | 34.9 | 4.8 | 15.2 | 3.0 | 2.8 | 0.4 | 2.5 | 27.0 | < 0.1 | 0.2 | |
| 87562 Orig | 29.1 | < 0.1 | 25.1 | 18.8 | 263 | 47 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 226 | 10.3 | 21.0 | 2.9 | 9.8 | 2.2 | 2.5 | 0.4 | 3.1 | 18.3 | 0.4 | 0.3 | |
| 87562 Dup | 30.2 | < 0.1 | 24.8 | 19.6 | 267 | 51 | 0.8 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 216 | 10.2 | 21.3 | 3.0 | 10.1 | 2.3 | 2.6 | 0.4 | 3.1 | 18.3 | 0.5 | 0.3 | |
| 87583 Orig | 21.8 | 0.3 | 38.0 | 16.7 | 329 | 57 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 403 | 28.5 | 60.0 | 8.5 | 27.9 | 5.4 | 4.9 | 0.6 | 3.5 | 5.9 | 0.6 | 0.2 | |
| 87583 Dup | 21.5 | 3.2 | 20.3 | 11.8 | 313 | 244 | 36.2 | 0.9 | < 0.1 | 1 | 0.1 | 0.5 | 365 | 15.6 | 37.3 | 5.3 | 18.2 | 3.8 | 3.5 | 0.5 | 2.8 | 8.8 | 1.3 | 0.2 | |
| 87818 Orig | 19.6 | < 0.1 | 60.0 | 25.3 | 278 | 67 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 608 | 54.0 | 94.5 | 15.0 | 48.1 | 8.7 | 7.9 | 1.0 | 5.5 | 66.6 | 0.3 | 0.3 | |
| 87818 Dup | 20.9 | < 0.1 | 61.1 | 26.1 | 289 | 71 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 606 | 54.6 | 97.0 | 15.4 | 49.2 | 8.9 | 8.0 | 1.0 | 5.4 | 68.7 | 0.4 | 0.3 | |
| 87844 Orig | 14.4 | < 0.1 | 39.7 | 26.7 | 322 | 52 | 18.0 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 653 | 56.9 | 114 | 16.2 | 50.9 | 9.2 | 8.4 | 1.1 | 5.9 | 87.0 | 0.7 | 0.4 | |
| 87844 Dup | 14.0 | < 0.1 | 39.3 | 26.9 | 333 | 40 | 2.6 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 661 | 57.7 | 115 | 16.5 | 52.1 | 9.6 | 8.8 | 1.2 | 6.1 | 87.8 | 0.5 | 0.4 | |
| 87858 Orig | 13.0 | < 0.1 | 50.7 | 31.5 | 233 | 62 | 2.7 | 1.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 857 | 88.2 | 168 | 24.2 | 74.1 | 12.7 | 10.9 | 1.4 | 7.0 | 109 | 0.6 | 0.4 | |
| 87858 Dup | 11.6 | < 0.1 | 52.0 | 31.8 | 235 | 125 | 12.4 | 1.9 | < 0.1 | 1 | < 0.1 | 0.2 | 896 | 91.6 | 175 | 24.9 | 76.0 | 13.0 | 11.8 | 1.4 | 7.5 | 113 | 0.7 | 0.4 | |
| 87879 Orig | 18.2 | < 0.1 | 66.6 | 13.1 | 270 | 116 | 7.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 563 | 23.5 | 48.2 | 6.6 | 20.6 | 3.8 | 3.4 | 0.5 | 2.6 | 51.6 | 0.9 | 0.2 | |
| 87879 Dup | 17.1 | 0.2 | 26.0 | 9.9 | 249 | 112 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 554 | 14.3 | 31.4 | 4.3 | 14.1 | 2.8 | 2.7 | 0.4 | 2.1 | 51.3 | 0.1 | 0.2 | |
| 87893 Orig | 19.8 | 0.4 | 63.8 | 10.6 | 227 | 78 | 4.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 521 | 13.8 | 27.5 | 3.8 | 11.9 | 2.2 | 2.0 | 0.3 | 1.9 | 21.7 | 0.5 | 0.2 | |
| 87893 Dup | 18.5 | < 0.1 | 63.0 | 10.1 | 223 | 107 | 10.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 534 | 14.5 | 28.7 | 3.9 | 11.9 | 2.3 | 2.1 | 0.3 | 1.9 | 21.8 | 1.0 | 0.2 | |
| 87914 Orig | 16.1 | 4.1 | 60.6 | 15.1 | 285 | 112 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 535 | 24.4 | 48.4 | 6.6 | 20.9 | 4.0 | 3.6 | 0.5 | 2.9 | 39.4 | 0.5 | 0.2 | |
| 87914 Dup | 14.3 | 4. | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|--------|--------|--------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Th | U | Sc | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 0.1 | 0.1 | 1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 2.3 | 0.3 | < 0.1 | 163 | | 0.40 | 755 | 6.3 | 34.9 | 1 | | 0.057 | 0.24 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 2.44 | 34.9 | 1.58 | | 0.0650 | 0.257 |
| GXR-1 Meas | 2.1 | 0.3 | < 0.1 | 140 | | 0.39 | 729 | 3.3 | 35.0 | 1 | | 0.056 | 0.23 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 2.44 | 34.9 | 1.58 | | 0.0650 | 0.257 |
| DH-1a Meas | | | | | | | | > 200 | 1870 | | | | |
| DH-1a Cert | | | | | | | | 910 | 2630 | | | | |
| GXR-4 Meas | 1.0 | 0.1 | 0.6 | 35.2 | | 3.22 | 52.2 | 19.5 | 5.7 | 7 | | 0.122 | 1.70 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 22.5 | 6.20 | 7.70 | | 0.120 | 1.77 |
| GXR-4 Meas | 0.8 | 0.1 | 0.6 | 34.5 | | 3.21 | 47.3 | 19.0 | 5.8 | 10 | | 0.136 | 1.79 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 22.5 | 6.20 | 7.70 | | 0.120 | 1.77 |
| SDC-1 Meas | | | | < 0.1 | | | 23.6 | | | 16 | 0.105 | 0.053 | 0.06 |
| SDC-1 Cert | | | | 0.800 | | | 25.0 | | | 17.0 | 0.606 | 0.0690 | 0.0650 |
| SDC-1 Meas | | | | < 0.1 | | | 22.3 | | | 16 | 0.185 | 0.061 | 0.07 |
| SDC-1 Cert | | | | 0.800 | | | 25.0 | | | 17.0 | 0.606 | 0.0690 | 0.0650 |
| SCO-1 Meas | | | | 0.9 | | | 31.4 | | | 12 | 0.242 | 0.074 | |
| SCO-1 Cert | | | | 1.40 | | | 31.0 | | | 10.8 | 0.380 | 0.0900 | |
| SCO-1 Meas | | | | 0.7 | | | 32.0 | | | 12 | 0.377 | 0.081 | |
| SCO-1 Cert | | | | 1.40 | | | 31.0 | | | 10.8 | 0.380 | 0.0900 | |
| GXR-6 Meas | 1.6 | 0.2 | < 0.1 | 0.1 | | 2.19 | 102 | 7.8 | 1.5 | 29 | | 0.034 | 0.01 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 5.30 | 1.54 | 27.6 | | 0.0350 | 0.0160 |
| GXR-6 Meas | 1.6 | 0.2 | < 0.1 | 0.1 | | 2.24 | 101 | 7.5 | 1.6 | 28 | | 0.033 | 0.01 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 5.30 | 1.54 | 27.6 | | 0.0350 | 0.0160 |
| OREAS 45P Meas | | | | | | | | | | | | | |
| OREAS 45P Cert | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | 32 | | | |
| DNC-1a Cert | | | | | | | | | | 31.0 | | | |
| DNC-1a Meas | | | | | | | | | | 30 | | | |
| DNC-1a Cert | | | | | | | | | | 31.0 | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.11 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.10 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| 87513 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 13.7 | 14.6 | 1.4 | 15 | 0.264 | 0.067 | < 0.01 |
| 87513 Dup | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 14.8 | 13.8 | 1.4 | 13 | 0.234 | 0.054 | < 0.01 |
| 87527 Orig | 1.0 | 0.1 | 0.8 | 0.5 | < 0.001 | 0.25 | 13.0 | 11.5 | 1.0 | 10 | 0.484 | 0.046 | < 0.01 |
| 87527 Dup | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 13.2 | 9.9 | 1.2 | 14 | 0.251 | 0.044 | < 0.01 |
| 87548 Orig | 1.4 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.32 | 14.3 | 5.9 | 1.6 | 17 | 0.151 | 0.014 | < 0.01 |
| 87548 Dup | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 13.7 | 4.6 | 1.5 | 17 | 0.0782 | 0.013 | < 0.01 |
| 87562 Orig | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 8.3 | 7.3 | 0.6 | 39 | 0.352 | 0.030 | < 0.01 |
| 87562 Dup | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.12 | 8.3 | 5.3 | 0.6 | 40 | 0.386 | 0.030 | < 0.01 |
| 87583 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 13.0 | 11.0 | 1.3 | 21 | 0.138 | 0.007 | < 0.01 |
| 87583 Dup | 1.1 | 0.2 | 1.5 | 0.8 | < 0.001 | 0.10 | 11.8 | 10.9 | 1.1 | 17 | 1.10 | 0.012 | < 0.01 |
| 87818 Orig | 1.9 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 10.0 | 12.9 | 1.3 | 24 | 0.233 | 0.126 | < 0.01 |
| 87818 Dup | 1.9 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 9.9 | 12.4 | 1.3 | 24 | 0.269 | 0.124 | < 0.01 |
| 87844 Orig | 2.0 | 0.3 | 0.7 | < 0.1 | < 0.001 | 0.12 | 12.5 | 10.6 | 3.2 | 21 | 0.118 | 0.120 | 0.03 |
| 87844 Dup | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.12 | 12.8 | 12.1 | 3.4 | 21 | 0.168 | 0.130 | 0.03 |
| 87858 Orig | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 11.4 | 15.7 | 11.4 | 23 | 0.497 | 0.242 | 0.08 |
| 87858 Dup | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.29 | 12.2 | 22.4 | 12.3 | 24 | 0.540 | 0.263 | 0.10 |
| 87879 Orig | 1.0 | 0.1 | 0.4 | 0.3 | 0.003 | 0.34 | 11.5 | 8.0 | 1.0 | 15 | 0.116 | 0.050 | < 0.01 |
| 87879 Dup | 0.9 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 11.8 | 5.9 | 0.8 | 10 | 0.183 | 0.048 | < 0.01 |
| 87893 Orig | 1.0 | 0.1 | 0.2 | 0.2 | 0.001 | 0.29 | 13.0 | 4.2 | 1.0 | 16 | 0.0695 | 0.031 | < 0.01 |
| 87893 Dup | 1.0 | 0.1 | 0.5 | 0.5 | < 0.001 | 0.29 | 13.6 | 6.0 | 1.0 | 16 | 0.135 | 0.032 | < 0.01 |
| 87914 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 11.9 | 9.9 | 1.0 | 16 | 0.117 | 0.042 | < 0.01 |
| 87914 Dup | 1.1 | 0.2 | 0.3 | 0.1 | 0.002 | 0.17 | 10.4 | 5.7 | 0.8 | 15 | 0.0652 | 0.039 | < 0.01 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|--------|-------|-------|-------|--------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Th | U | Sc | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 0.1 | 0.1 | 1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | TD-ICP |
| 87928 Orig | 2.2 | 0.3 | 0.8 | 0.2 | 0.004 | < 0.05 | 9.9 | 7.5 | 1.0 | 22 | 0.179 | 0.022 | < 0.01 |
| 87928 Dup | 1.6 | 0.2 | 0.9 | 0.3 | 0.002 | < 0.05 | 9.8 | 4.5 | 0.8 | 12 | 0.614 | 0.024 | < 0.01 |
| 87949 Orig | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.40 | 15.2 | 6.9 | 1.6 | 10 | 0.290 | 0.035 | 0.02 |
| 87949 Dup | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.40 | 15.1 | 9.0 | 1.5 | 11 | 0.143 | 0.036 | 0.02 |
| 87975 Orig | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.26 | 14.3 | 12.3 | 1.2 | 12 | 0.134 | 0.051 | < 0.01 |
| 87975 Dup | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 14.5 | 9.8 | 1.2 | 12 | 0.109 | 0.045 | < 0.01 |
| 87989 Orig | 1.1 | 0.2 | 0.6 | 0.2 | < 0.001 | < 0.05 | 4.6 | 4.1 | 0.5 | 31 | 0.575 | 0.023 | < 0.01 |
| 87989 Dup | 1.1 | 0.2 | 0.2 | < 0.1 | < 0.001 | < 0.05 | 4.5 | 2.8 | 0.4 | 31 | 0.500 | 0.019 | < 0.01 |
| 87710 Orig | 1.1 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.36 | 16.0 | 10.5 | 1.1 | 11 | 0.207 | 0.050 | 0.01 |
| 87710 Dup | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.36 | 17.7 | 9.6 | 1.0 | 11 | 0.258 | 0.051 | 0.01 |
| 87724 Orig | 1.7 | 0.2 | < 0.1 | 0.3 | 0.007 | 0.23 | 13.7 | 10.8 | 1.7 | 18 | 0.503 | 0.124 | 0.05 |
| 87724 Dup | 1.5 | 0.2 | 0.1 | < 0.1 | 0.005 | 0.23 | 12.7 | 10.8 | 1.6 | 19 | 0.625 | 0.133 | 0.05 |
| 87745 Orig | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 15.5 | 6.2 | 1.1 | 10 | 0.233 | 0.044 | < 0.01 |
| 87745 Dup | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 15.6 | 5.9 | 1.1 | 10 | 0.202 | 0.035 | 0.01 |
| 87760 Orig | 3.3 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.28 | 22.3 | 82.5 | 1.8 | 13 | 0.242 | 0.107 | 0.02 |
| 87760 Dup | 3.4 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 22.3 | 74.9 | 1.8 | 12 | 0.301 | 0.106 | 0.02 |
| 87783 Orig | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.34 | 15.9 | 10.7 | 1.0 | 14 | 0.232 | 0.027 | < 0.01 |
| 87783 Dup | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 15.6 | 8.7 | 1.0 | 13 | 0.313 | 0.026 | < 0.01 |
| 89909 Orig | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 18.3 | 12.7 | 1.5 | 10 | 0.133 | 0.044 | 0.01 |
| 89909 Dup | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 18.3 | 8.1 | 1.5 | 10 | 0.148 | 0.043 | 0.01 |
| 89923 Orig | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 17.7 | 7.2 | 2.0 | 10 | 0.136 | 0.037 | 0.02 |
| 89923 Dup | 1.2 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.30 | 19.0 | 13.8 | 2.1 | 10 | 0.199 | 0.047 | 0.02 |
| 89945 Orig | 2.1 | 0.3 | 0.2 | < 0.1 | < 0.001 | 0.16 | 10.9 | 2.9 | 0.9 | 13 | 0.245 | 0.023 | < 0.01 |
| 89945 Dup | 2.5 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.17 | 11.3 | 4.8 | 1.2 | 18 | 0.213 | 0.023 | < 0.01 |
| 89959 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.37 | 17.0 | 7.4 | 1.2 | 9 | 0.0913 | 0.060 | < 0.01 |
| 89959 Dup | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 16.1 | 9.9 | 1.1 | 9 | 0.0935 | 0.059 | < 0.01 |
| 89739 Orig | 1.5 | 0.2 | 0.2 | < 0.1 | 0.004 | < 0.05 | 3.1 | 7.4 | 0.5 | 24 | 0.607 | 0.076 | 0.04 |
| 89739 Dup | 1.5 | 0.2 | 0.5 | < 0.1 | 0.001 | < 0.05 | 3.0 | 4.7 | 0.4 | 25 | 0.720 | 0.078 | 0.05 |
| 89754 Orig | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.19 | 12.9 | 9.7 | 1.4 | 17 | 0.226 | 0.092 | 0.05 |
| 89754 Dup | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.19 | 14.7 | 8.8 | 1.2 | 17 | 0.192 | 0.083 | 0.05 |
| 89775 Orig | 1.1 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.41 | 13.0 | 9.7 | 1.3 | 16 | 0.298 | 0.120 | 0.07 |
| 89775 Dup | 1.2 | 0.2 | 0.1 | 0.1 | 0.001 | 0.42 | 13.6 | 12.1 | 1.4 | 17 | 0.389 | 0.129 | 0.07 |
| 89801 Orig | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.34 | 12.5 | 11.1 | 1.2 | 15 | 0.335 | 0.098 | < 0.01 |
| 89801 Dup | 1.6 | 0.2 | < 0.1 | 0.3 | 0.001 | 0.35 | 12.7 | 9.0 | 1.1 | 16 | 0.296 | 0.092 | < 0.01 |
| 89823 Orig | 0.7 | 0.1 | 0.3 | 0.2 | < 0.001 | 0.33 | 17.5 | 10.9 | 0.7 | 9 | 0.198 | 0.051 | 0.01 |
| 89823 Dup | 0.9 | 0.1 | 0.3 | 0.3 | 0.002 | 0.37 | 19.1 | 13.2 | 1.2 | 9 | 0.208 | 0.055 | 0.01 |
| 89837 Orig | 1.2 | 0.2 | 0.5 | 1.5 | 0.001 | 0.65 | 18.0 | 15.7 | 3.2 | 13 | 0.342 | 0.095 | 0.03 |
| 89837 Dup | 1.3 | 0.2 | 0.5 | 0.4 | 0.001 | 0.68 | 18.6 | 15.4 | 3.3 | 13 | 0.339 | 0.092 | 0.03 |
| 89858 Orig | 1.5 | 0.2 | < 0.1 | 0.2 | 0.005 | 0.38 | 12.9 | 11.1 | 1.1 | 20 | 0.495 | 0.113 | < 0.01 |
| 89858 Dup | 1.5 | 0.2 | < 0.1 | 0.2 | 0.001 | 0.40 | 12.7 | 10.9 | 1.2 | 20 | 0.505 | 0.116 | < 0.01 |
| 89884 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.08 | 8.3 | 6.4 | 1.0 | 18 | 0.162 | 0.083 | 0.05 |
| 89884 Dup | 1.4 | 0.2 | < 0.1 | 1.3 | < 0.001 | 0.09 | 8.6 | 6.7 | 1.0 | 18 | 0.124 | 0.078 | 0.05 |
| 89898 Orig | 1.3 | 0.2 | 0.3 | < 0.1 | < 0.001 | < 0.05 | 8.6 | 9.5 | 0.6 | 21 | 0.630 | 0.066 | 0.02 |
| 89898 Dup | 1.4 | 0.2 | 0.1 | < 0.1 | < 0.001 | < 0.05 | 8.9 | 7.7 | 0.6 | 20 | 0.499 | 0.064 | 0.02 |
| 89719 Orig | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 12.6 | 8.9 | 0.9 | 19 | 0.117 | 0.081 | < 0.01 |
| 89719 Dup | 1.0 | 0.1 | 1.4 | 1.2 | < 0.001 | 0.30 | 14.0 | 3.4 | 0.7 | 8 | 0.693 | 0.091 | < 0.01 |
| 89984 Orig | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 15.2 | 7.9 | 0.8 | 10 | 0.197 | 0.051 | 0.01 |
| 89984 Dup | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 15.6 | 7.2 | 1.0 | 10 | 0.184 | 0.044 | 0.01 |
| 90000 Orig | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 10.2 | 6.2 | 0.8 | 14 | 0.224 | 0.062 | < 0.01 |
| 90000 Dup | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.18 | 10.7 | 5.0 | 0.8 | 15 | 0.196 | 0.061 | < 0.01 |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 0.1 | < 0.1 | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | 0.0005 | < 0.001 | < 0.01 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|--------|-------|-------|-------|--------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Th | U | Sc | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 0.1 | 0.1 | 1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | TD-ICP |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 0.1 | < 0.1 | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | < 1 | < 0.0005 | < 0.001 | < 0.01 |



Date Submitted: 27-Aug-10
Invoice No.: A10-5395
Invoice Date: 12-Oct-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

28 Soil samples were submitted for analysis.

The following analytical package was requested: Code UT-6-Dahrouge Total Digestion ICP & ICP/MS

REPORT **A10-5395**

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Notes:

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A10-5395

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 28151 | 36 | 4.7 | 0.83 | 0.27 | 2.05 | 0.61 | 21.2 | 1.1 | 273 | 28.0 | 3270 | 6.86 | < 0.1 | 21.2 | 28.2 | 3.3 | 13.1 | < 0.05 | 0.45 | 30.6 | 64.3 | 0.10 | 7.6 | 129 |
| 28152 | 13 | 11.3 | 1.02 | 0.53 | 3.07 | 1.01 | 8.61 | 0.4 | 285 | 68.7 | 1010 | 13.9 | < 0.1 | 49.4 | 31.9 | 2.2 | 11.9 | 0.48 | 0.77 | 33.4 | 29.4 | 0.31 | 6.1 | 117 |
| 28153 | 17 | 2.9 | 0.87 | 0.21 | 2.14 | 0.89 | 19.5 | 1.1 | 404 | 63.2 | 766 | 5.26 | < 0.1 | 26.3 | 28.6 | 5.7 | 13.8 | < 0.05 | 0.57 | 15.6 | 60.9 | 0.41 | 8.0 | 126 |
| 28154 | 16 | 7.6 | 0.94 | 2.68 | 2.73 | 1.25 | 17.0 | 1.5 | 185 | 39.8 | 3060 | 5.85 | < 0.1 | 41.2 | 14.6 | 1.5 | 6.9 | 0.22 | 0.66 | 26.4 | 31.0 | 0.17 | 3.9 | 106 |
| 28155 | 40 | 3.8 | 0.90 | 0.26 | 2.43 | 0.92 | 18.7 | 0.8 | 335 | 37.6 | 1080 | 7.12 | < 0.1 | 17.2 | 32.2 | 2.9 | 15.4 | < 0.05 | 0.73 | 11.4 | 65.7 | 0.23 | 8.9 | 70.9 |
| 28156 | 12 | < 0.5 | 0.07 | 4.35 | 0.49 | 0.64 | 21.9 | 3.3 | 206 | 6.3 | 4330 | 6.33 | < 0.1 | 26.4 | 24.8 | 2.1 | 11.6 | 0.14 | < 0.05 | 30.8 | 46.7 | 0.10 | 7.1 | 330 |
| 28157 | 162 | 1.3 | 0.48 | 0.10 | 0.88 | 0.19 | 22.1 | 0.8 | 282 | 23.5 | 4120 | 7.67 | 0.2 | 19.7 | 31.0 | 4.3 | 14.9 | < 0.05 | 0.07 | 29.0 | 85.9 | 0.22 | 8.3 | 127 |
| 28158 | 27 | 3.7 | 0.67 | 0.29 | 1.95 | 0.74 | 19.7 | 1.6 | 281 | 32.5 | 3950 | 7.59 | < 0.1 | 32.1 | 32.3 | 4.0 | 15.5 | 0.14 | 0.40 | 31.5 | 70.9 | 0.14 | 8.9 | 173 |
| 28159 | 12 | 3.1 | 0.39 | 5.29 | 1.32 | 0.72 | 20.2 | 1.0 | 190 | 25.3 | 4170 | 6.32 | < 0.1 | 23.7 | 20.4 | 2.0 | 9.4 | 0.09 | 0.21 | 18.4 | 32.0 | 0.07 | 5.1 | 143 |
| 28160 | 5 | 15.0 | 2.11 | 2.38 | 5.09 | 1.62 | 7.74 | 0.6 | 139 | 70.3 | 1810 | 4.99 | < 0.1 | 51.2 | 8.4 | 2.5 | 3.7 | 0.20 | 1.04 | 21.7 | 15.0 | 0.09 | 2.1 | 122 |
| 28161 | 5 | 3.9 | 0.57 | 6.14 | 1.45 | 0.53 | 19.8 | 1.4 | 93 | 18.4 | 3380 | 5.09 | < 0.1 | 23.9 | 18.3 | 1.9 | 8.7 | 0.08 | 0.27 | 12.9 | 24.9 | 0.08 | 4.2 | 127 |
| 28162 | 8 | 20.3 | 2.59 | 1.42 | 7.00 | 1.96 | 3.83 | 0.3 | 123 | 45.3 | 1300 | 4.74 | < 0.1 | 45.6 | 4.7 | 2.8 | 2.0 | 0.07 | 1.26 | 18.2 | 7.88 | 0.09 | 1.4 | 86.4 |
| 28163 | 126 | 1.4 | 0.57 | 1.55 | 1.02 | 0.35 | 8.73 | 6.7 | 779 | 37.9 | 8730 | 17.6 | < 0.1 | 68.9 | 15.7 | 4.8 | 7.0 | 1.80 | 0.15 | 109 | 37.0 | 0.90 | 6.3 | 816 |
| 28164 | 15 | < 0.5 | 0.06 | 4.57 | 0.06 | 0.04 | 27.9 | 1.1 | 211 | < 0.5 | 3190 | 5.40 | < 0.1 | 16.9 | 17.2 | 1.9 | 8.3 | 0.26 | < 0.05 | 25.8 | 38.8 | 0.13 | 5.1 | 143 |
| 28165 | < 5 | 17.8 | 1.93 | 2.68 | 5.20 | 1.75 | 8.14 | 0.9 | 117 | 64.2 | 1680 | 4.51 | < 0.1 | 48.7 | 6.4 | 2.4 | 2.8 | 0.13 | 1.23 | 21.0 | 10.4 | 0.09 | 1.7 | 121 |
| 28166 | 7 | < 0.5 | 0.12 | 6.49 | 0.18 | 0.07 | 23.4 | 1.7 | 250 | 1.2 | 3350 | 4.88 | < 0.1 | 15.7 | 10.4 | 1.8 | 4.8 | 0.12 | < 0.05 | 20.7 | 21.6 | 0.04 | 2.6 | 101 |
| 28167 | 22 | 24.3 | 1.95 | 2.06 | 5.36 | 2.07 | 4.89 | 0.6 | 110 | 121 | 1020 | 4.18 | 3.3 | 70.6 | 3.1 | 2.7 | 1.3 | < 0.05 | 1.48 | 20.4 | 4.26 | 0.08 | 1.0 | 85.5 |
| 28168 | 16 | 0.7 | 0.22 | 2.62 | 0.34 | 0.09 | 26.4 | 2.0 | 256 | < 0.5 | 3700 | 6.66 | < 0.1 | 18.5 | 23.3 | 3.4 | 11.3 | 0.12 | < 0.05 | 36.1 | 58.4 | 0.08 | 6.2 | 222 |
| 28169 | 17 | < 0.5 | 0.15 | 6.20 | 0.19 | 0.07 | 22.8 | 0.6 | 180 | 1.5 | 3740 | 6.31 | < 0.1 | 14.4 | 18.4 | 1.3 | 7.9 | 0.23 | < 0.05 | 25.3 | 29.5 | 0.11 | 3.8 | 113 |
| 28170 | < 5 | 13.4 | 1.42 | 3.10 | 3.88 | 1.27 | 11.2 | 0.6 | 105 | 44.2 | 1580 | 4.26 | < 0.1 | 43.5 | 8.4 | 3.4 | 3.8 | 0.13 | 1.02 | 20.5 | 15.5 | 0.07 | 2.0 | 111 |
| 28171 | < 5 | 0.6 | 0.16 | 6.16 | 0.30 | 0.18 | 23.5 | 0.8 | 129 | < 0.5 | 3020 | 4.62 | < 0.1 | 16.6 | 12.6 | 1.4 | 6.1 | 0.07 | < 0.05 | 18.2 | 30.2 | 0.05 | 3.4 | 105 |
| 28172 | 89 | 32.5 | 2.38 | 2.41 | 6.97 | 2.23 | 3.62 | 0.4 | 136 | 116 | 932 | 4.63 | 3.0 | 93.5 | 2.6 | 3.7 | 1.0 | < 0.05 | 1.90 | 22.8 | 3.10 | 0.08 | 0.9 | 92.4 |
| 28173 | 18 | 63.3 | 0.28 | 1.93 | 2.02 | 0.33 | 1.56 | 2.0 | 147 | 619 | > 10000 | 21.2 | < 0.1 | 386 | 35.8 | 14.1 | 18.6 | 0.38 | 2.02 | 73.0 | 99.9 | 19.2 | 11.6 | 1390 |
| 28174 | 44 | 102 | 0.10 | 4.54 | 1.06 | 0.66 | 10.4 | 3.2 | 188 | 312 | > 10000 | 14.7 | < 0.1 | 320 | 85.0 | 7.5 | 42.9 | 0.60 | 2.13 | 63.8 | > 100 | 18.7 | 23.8 | 3710 |
| 89751 | 11 | 13.9 | 0.57 | 0.98 | 2.10 | 0.36 | 15.8 | 0.9 | 145 | 59.8 | 5280 | 12.2 | < 0.1 | 25.7 | 45.3 | 9.5 | 16.6 | 0.12 | 0.57 | 19.5 | 39.2 | 0.12 | 7.7 | 68.0 |
| 89936 | > 2000 | 88.9 | 0.38 | 8.23 | 4.78 | 4.71 | 2.54 | 0.5 | 10 | 55.5 | 3250 | 8.33 | 5.8 | 37.5 | 3.3 | 8.6 | 1.7 | < 0.05 | 4.86 | 18.5 | 12.5 | 1.25 | 1.1 | 191 |
| 89976 | 44 | 14.2 | 1.41 | 2.57 | 4.03 | 1.21 | 12.2 | 0.9 | 214 | 59.3 | 2970 | 6.39 | < 0.1 | 42.3 | 15.7 | 3.6 | 6.8 | < 0.05 | 0.95 | 28.5 | 28.5 | 0.17 | 3.7 | 143 |
| 89789 | 61 | 19.8 | 2.16 | 2.23 | 6.11 | 1.73 | 1.85 | 0.2 | 79 | 48.5 | 1120 | 4.23 | 1.1 | 30.9 | 2.2 | 3.7 | 0.9 | < 0.05 | 1.88 | 17.8 | 2.53 | 0.19 | 0.6 | 71.5 |

Activation Laboratories Ltd. Report: A10-5395

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 28151 | 5.9 | 8.0 | 23.4 | 271 | > 1000 | 10 | 79.4 | 0.9 | 0.3 | 2 | < 0.1 | 0.8 | 274 | 1290 | 3370 | 482 | 1530 | > 100 | 181 | 18.4 | 82.9 | 6.5 | 4.5 | 3.2 |
| 28152 | 7.8 | 15.6 | 39.3 | 275 | 961 | 9 | 10.9 | 4.9 | 0.1 | < 1 | < 0.1 | 0.5 | 359 | 390 | 1050 | 157 | 530 | 99.1 | 83.7 | 10.7 | 60.4 | 49.8 | 1.5 | 4.5 |
| 28153 | 7.1 | 10.4 | 25.8 | 269 | > 1000 | 6 | 38.0 | 2.7 | 0.2 | < 1 | 0.2 | 0.8 | 262 | 1390 | 3550 | 475 | 1430 | > 100 | 177 | 18.4 | 85.3 | 8.0 | 4.1 | 3.1 |
| 28154 | 5.9 | 4.0 | 39.0 | 145 | > 1000 | 8 | 26.2 | 2.8 | 0.2 | < 1 | < 0.1 | 0.6 | 327 | 576 | 1570 | 218 | 704 | > 100 | 88.0 | 9.1 | 42.9 | 9.5 | 1.8 | 1.7 |
| 28155 | 7.2 | 9.0 | 32.9 | 308 | > 1000 | 11 | 41.7 | 2.6 | 0.2 | 2 | < 0.1 | 0.7 | 282 | 1390 | 3440 | 473 | 1500 | > 100 | 193 | 20.4 | 96.2 | 4.6 | 4.3 | 3.5 |
| 28156 | 0.8 | 15.2 | 9.5 | 232 | > 1000 | 7 | 16.7 | 3.5 | 0.4 | 4 | 0.2 | 0.8 | 100 | 869 | 2180 | 314 | 1060 | > 100 | 133 | 14.2 | 70.7 | 5.7 | 2.9 | 2.9 |
| 28157 | 3.8 | 8.3 | 5.4 | 290 | > 1000 | 55 | 112 | 3.2 | 0.2 | 3 | 0.1 | 1.2 | 128 | 2050 | 4910 | 669 | 2090 | > 100 | 243 | 21.9 | 95.4 | 8.9 | 6.0 | 3.6 |
| 28158 | 5.0 | 14.1 | 21.5 | 309 | > 1000 | 15 | 11.6 | 2.2 | 0.6 | 2 | < 0.1 | 0.8 | 234 | 1260 | 3220 | 471 | 1540 | > 100 | 204 | 21.0 | 96.7 | 6.6 | 4.5 | 3.7 |
| 28159 | 2.4 | 8.1 | 17.7 | 190 | > 1000 | 6 | 6.8 | 1.0 | 0.2 | 2 | < 0.1 | 0.6 | 222 | 608 | 1520 | 219 | 744 | > 100 | 97.0 | 10.9 | 56.2 | 9.8 | 1.9 | 2.4 |
| 28160 | 12.1 | 3.1 | 54.9 | 81.7 | 637 | 4 | 2.2 | 1.4 | 0.1 | < 1 | < 0.1 | 0.3 | 525 | 297 | 724 | 112 | 359 | 54.8 | 42.1 | 4.4 | 22.1 | 30.6 | 0.9 | 1.0 |
| 28161 | 3.3 | 3.2 | 17.4 | 183 | > 1000 | 5 | 7.3 | 1.4 | 0.1 | < 1 | < 0.1 | 0.4 | 193 | 450 | 1150 | 166 | 539 | 87.0 | 73.6 | 9.2 | 49.8 | 14.3 | 1.4 | 2.0 |
| 28162 | 15.5 | 2.2 | 72.8 | 49.0 | 462 | 20 | 5.2 | 1.5 | < 0.1 | < 1 | < 0.1 | 0.3 | 686 | 180 | 426 | 64.4 | 202 | 30.2 | 22.0 | 2.4 | 11.9 | 39.1 | 0.5 | 0.6 |
| 28163 | 4.8 | < 0.1 | 6.1 | 151 | 964 | 14 | 33.9 | 5.7 | 1.1 | < 1 | 0.2 | 1.7 | 204 | 727 | 2460 | 268 | 935 | > 100 | 102 | 9.7 | 44.8 | 24.7 | 3.8 | 1.9 |
| 28164 | < 0.1 | 4.9 | 0.7 | 175 | > 1000 | 8 | 17.3 | 2.1 | 0.2 | 2 | 0.2 | 0.8 | 88 | 726 | 2070 | 283 | 933 | > 100 | 108 | 10.9 | 52.0 | 6.5 | 2.3 | 1.9 |
| 28165 | 9.9 | < 0.1 | 63.9 | 59.7 | 577 | 12 | 1.8 | 1.7 | < 0.1 | < 1 | < 0.1 | 0.3 | 575 | 244 | 585 | 83.9 | 267 | 38.9 | 30.1 | 3.2 | 16.1 | 31.7 | 0.6 | 0.8 |
| 28166 | 0.4 | < 0.1 | 1.8 | 102 | > 1000 | 5 | 8.6 | 1.5 | 0.2 | 2 | < 0.1 | 0.7 | 69 | 505 | 1230 | 169 | 560 | 81.2 | 63.6 | 6.3 | 29.8 | 8.5 | 1.3 | 1.2 |
| 28167 | 11.9 | < 0.1 | 63.3 | 28.7 | 380 | 146 | 77.1 | 2.2 | < 0.1 | < 1 | < 0.1 | 0.4 | 625 | 96.7 | 206 | 30.7 | 97.5 | 15.7 | 12.9 | 1.5 | 7.7 | 34.3 | 0.4 | 0.4 |
| 28168 | 1.2 | 4.2 | 2.8 | 216 | > 1000 | 12 | 45.2 | 0.5 | 0.3 | 4 | < 0.1 | 0.8 | 70 | 1220 | 2960 | 432 | 1390 | > 100 | 177 | 16.7 | 71.8 | 4.5 | 3.7 | 2.6 |
| 28169 | 0.9 | 3.7 | 1.0 | 166 | > 1000 | 6 | 9.3 | 5.2 | 0.1 | 2 | < 0.1 | 0.7 | 40 | 697 | 1640 | 229 | 748 | > 100 | 89.9 | 9.4 | 46.2 | 7.0 | 1.8 | 2.3 |
| 28170 | 7.8 | 0.1 | 49.0 | 80.6 | 746 | 3 | 2.2 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.4 | 413 | 282 | 715 | 110 | 365 | 57.2 | 45.6 | 4.8 | 23.4 | 33.3 | 0.8 | 1.0 |
| 28171 | 0.8 | 4.1 | 4.1 | 125 | > 1000 | 4 | 9.8 | 1.3 | 0.2 | 2 | < 0.1 | 0.6 | 73 | 644 | 1600 | 225 | 757 | > 100 | 87.3 | 8.4 | 38.7 | 10.4 | 1.8 | 1.5 |
| 28172 | 16.3 | < 0.1 | 92.0 | 25.3 | 351 | 156 | 120 | 1.2 | < 0.1 | 2 | 0.2 | 0.3 | 725 | 83.9 | 174 | 24.6 | 77.5 | 11.9 | 9.6 | 1.1 | 5.6 | 40.5 | 0.3 | 0.4 |
| 28173 | 5.3 | < 0.1 | 20.6 | 380 | 367 | 27 | 10.4 | 21.1 | 2.7 | 4 | < 0.1 | 0.9 | 822 | 3440 | 7060 | 905 | 2470 | > 100 | 297 | 29.6 | 126 | 140 | 6.8 | 3.4 |
| 28174 | < 0.1 | 12.7 | 35.2 | 937 | > 1000 | 19 | 83.8 | 49.8 | 10.6 | 13 | 0.2 | 3.1 | 1620 | 5740 | > 10000 | 1470 | 3830 | > 100 | 566 | 58.0 | 271 | 57.5 | 10.1 | 7.5 |
| 89751 | 1.9 | 3.5 | 15.7 | 370 | > 1000 | 11 | 13.8 | 1.4 | 0.4 | < 1 | < 0.1 | 0.8 | 542 | 451 | 1160 | 177 | 638 | > 100 | 117 | 15.1 | 84.4 | 13.4 | 1.6 | 6.9 |
| 89936 | 6.9 | < 0.1 | 165 | 35.8 | 694 | 201 | > 500 | 1.9 | 0.1 | 5 | 0.3 | 4.5 | 1520 | 479 | 967 | 122 | 347 | 48.1 | 34.8 | 3.0 | 12.0 | 3.0 | 1.0 | 0.4 |
| 89976 | 7.9 | 5.6 | 44.7 | 144 | 906 | 155 | > 500 | 3.1 | 0.2 | < 1 | < 0.1 | 0.8 | 454 | 643 | 1560 | 217 | 711 | > 100 | 82.4 | 8.5 | 40.4 | 22.2 | 1.8 | 1.9 |
| 89789 | 12.8 | 0.2 | 69.1 | 21.0 | 336 | 72 | 18.6 | 2.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 601 | 57.2 | 124 | 14.9 | 55.7 | 9.6 | 7.9 | 1.0 | 4.9 | 19.0 | 0.4 | 0.3 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|--------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 28151 | 15.4 | 2.0 | 1.0 | 2.5 | 0.011 | 0.44 | 247 | 32 | > 200 | 119 | 0.0058 | 7.45 | 0.02 |
| 28152 | 26.4 | 3.6 | 0.1 | 1.3 | 0.001 | 0.87 | 56.2 | 14 | > 200 | 33.4 | 0.0274 | 3.04 | 0.15 |
| 28153 | 14.2 | 1.9 | 0.3 | 1.2 | 0.016 | 0.58 | 274 | 17 | > 200 | 345 | 0.0065 | 6.52 | 0.01 |
| 28154 | 8.2 | 1.1 | 2.0 | 0.2 | 0.008 | 0.48 | 113 | 26 | 181 | 79.7 | 0.0578 | 3.79 | 0.02 |
| 28155 | 16.3 | 2.2 | 0.5 | 0.7 | 0.008 | 0.36 | 96.5 | 21 | > 200 | 103 | 0.0067 | 7.08 | 0.02 |
| 28156 | 14.2 | 2.0 | 0.2 | 0.6 | 0.011 | 0.42 | 226 | 49 | > 200 | 85.8 | 0.0060 | 4.59 | 0.03 |
| 28157 | 17.6 | 2.6 | 4.4 | 1.9 | 0.018 | 0.31 | 144 | 27 | > 200 | 247 | 0.0142 | 8.22 | 0.02 |
| 28158 | 18.0 | 2.5 | 0.5 | < 0.1 | 0.012 | 0.43 | 352 | 66 | > 200 | 162 | 0.0081 | 6.97 | 0.03 |
| 28159 | 11.3 | 1.6 | 0.2 | < 0.1 | 0.008 | 0.36 | 91.1 | 40 | > 200 | 25.8 | 0.0119 | 3.23 | < 0.01 |
| 28160 | 5.5 | 0.7 | < 0.1 | < 0.1 | 0.001 | 0.52 | 49.8 | 22 | 134 | 20.9 | 0.0246 | 1.32 | < 0.01 |
| 28161 | 9.4 | 1.2 | < 0.1 | 0.2 | 0.005 | 0.33 | 31.4 | 20 | 145 | 21.4 | 0.0178 | 2.43 | < 0.01 |
| 28162 | 3.3 | 0.5 | 0.1 | 0.2 | < 0.001 | 0.49 | 44.3 | 16 | 81.9 | 17.7 | 0.109 | 0.599 | < 0.01 |
| 28163 | 9.8 | 1.5 | 2.3 | < 0.1 | 0.143 | 0.86 | 668 | 52 | > 200 | 916 | 0.319 | 0.701 | 0.03 |
| 28164 | 8.8 | 1.2 | 0.2 | 2.9 | 0.005 | 0.12 | 341 | 16 | > 200 | 374 | 0.0037 | 5.40 | 0.02 |
| 28165 | 4.2 | 0.6 | < 0.1 | 0.2 | 0.001 | 0.47 | 43.3 | 17 | 127 | 24.1 | 0.0538 | 0.861 | < 0.01 |
| 28166 | 6.6 | 0.9 | 0.1 | 0.5 | 0.003 | 0.23 | 79.1 | 17 | > 200 | 35.7 | 0.0084 | 2.95 | < 0.01 |
| 28167 | 2.1 | 0.3 | 2.3 | 1.3 | < 0.001 | 0.38 | 19.8 | 15 | 61.0 | 5.4 | 0.373 | 0.425 | < 0.01 |
| 28168 | 13.4 | 1.9 | 1.9 | 1.2 | 0.013 | 0.28 | 136 | 22 | > 200 | 73.6 | 0.0159 | 6.96 | 0.03 |
| 28169 | 12.8 | 1.8 | 0.4 | 0.6 | 0.007 | 0.19 | 35.7 | 19 | > 200 | 35.1 | 0.0059 | 2.93 | 0.02 |
| 28170 | 5.1 | 0.7 | < 0.1 | < 0.1 | 0.004 | 0.49 | 70.7 | 20 | 150 | 34.4 | 0.0183 | 1.83 | < 0.01 |
| 28171 | 7.5 | 1.1 | < 0.1 | 0.4 | 0.005 | 0.26 | 181 | 24 | 174 | 24.2 | 0.0027 | 3.63 | 0.02 |
| 28172 | 1.9 | 0.3 | 3.4 | 1.4 | < 0.001 | 0.48 | 20.2 | 16 | 51.5 | 3.6 | 0.478 | 0.252 | < 0.01 |
| 28173 | 13.3 | 1.6 | < 0.1 | < 0.1 | 0.017 | 0.48 | 1100 | 115 | > 200 | 0.9 | 0.446 | 0.341 | 0.07 |
| 28174 | 25.2 | 2.4 | < 0.1 | 0.5 | 0.035 | 0.45 | 1380 | 70 | > 200 | 0.3 | 0.283 | 0.768 | 0.20 |
| 89751 | 42.5 | 6.0 | 0.1 | 1.2 | 0.004 | 0.28 | 84.1 | 44 | > 200 | 70.8 | 0.0174 | 4.87 | 0.03 |
| 89936 | 1.5 | 0.2 | > 50.0 | 0.9 | < 0.001 | 0.61 | 268 | 14 | > 200 | 791 | 0.253 | 0.019 | 0.02 |
| 89976 | 10.6 | 1.6 | 8.9 | 1.6 | 0.002 | 0.60 | 99.3 | 25 | > 200 | 36.3 | 0.0620 | 2.77 | 0.02 |
| 89789 | 1.5 | 0.2 | 2.1 | 0.5 | 0.002 | 0.44 | 20.5 | 14 | 23.5 | 14.7 | 0.372 | 0.300 | < 0.01 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | > 2000 | 6.7 | 0.04 | 0.16 | 1.05 | 0.05 | 0.80 | 3.3 | 76 | 9.5 | 809 | 22.1 | 0.4 | 40.1 | | 0.8 | | 31.6 | 1.76 | 7.5 | 0.40 | 1350 | 16.4 | 760 |
| GXR-1 Cert | 3300 | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 454 | 11.5 | 0.57 | 1.67 | 6.66 | 2.32 | 0.99 | < 0.1 | 84 | 64.9 | 155 | 2.92 | 1.4 | 40.2 | | 1.9 | | 3.23 | 2.37 | 13.3 | 1.42 | 19.8 | 5.3 | 71.0 |
| GXR-4 Cert | 470 | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| SDC-1 Meas | | 38.5 | 1.88 | 1.07 | 8.46 | 2.72 | 1.12 | < 0.1 | 42 | 60.7 | 855 | 4.65 | | 38.8 | | 3.5 | | 0.06 | | 17.8 | | 0.33 | | 110 |
| SDC-1 Cert | | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | | 38.0 | | 3.00 | | 0.0410 | | 17.9 | | 2.60 | | 103 |
| SCO-1 Meas | | 46.7 | 0.81 | 1.69 | 8.02 | 2.27 | 1.92 | 0.2 | 141 | 68.2 | 408 | 3.64 | | 30.1 | | 2.1 | | 0.12 | | 11.8 | | 0.48 | | 107 |
| SCO-1 Cert | | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | | 27.0 | | 1.84 | | 0.134 | | 10.5 | | 0.370 | | 103 |
| GXR-6 Meas | 69 | 34.2 | 0.10 | 0.58 | > 10.0 | 1.95 | 0.17 | 0.1 | 158 | 78.6 | 1070 | 5.73 | 2.1 | 27.2 | | 1.0 | | 0.32 | 4.18 | 13.9 | 0.68 | 0.22 | 1.0 | 133 |
| GXR-6 Cert | 95.0 | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| DNC-1a Meas | | 4.8 | | | | | | | 177 | 162 | | | | 287 | | | | | | 56.1 | 0.58 | | | 67.9 |
| DNC-1a Cert | | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | 70.0 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | > 5000 | | | | 2370 | | | | 0.89 | | 81.4 | | | | 149 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | | 2247 | | | | 0.86 | | 75 | | | | 133 |
| 28163 Orig | 141 | 1.5 | 0.56 | 1.53 | 1.00 | 0.35 | 8.74 | 6.7 | 746 | 37.7 | 8490 | 17.3 | < 0.1 | 68.9 | 15.8 | 4.8 | 7.0 | 1.66 | 0.15 | 107 | 36.8 | 0.90 | 6.1 | 813 |
| 28163 Dup | 111 | 1.3 | 0.58 | 1.57 | 1.04 | 0.35 | 8.72 | 6.6 | 812 | 38.1 | 8980 | 17.9 | < 0.1 | 69.0 | 15.6 | 4.9 | 6.9 | 1.93 | 0.15 | 110 | 37.3 | 0.91 | 6.5 | 818 |
| 89976 Orig | 41 | 14.4 | 1.41 | 2.60 | 4.19 | 1.23 | 12.7 | 0.9 | 219 | 54.1 | 2990 | 6.50 | < 0.1 | 41.6 | 15.9 | 3.3 | 6.8 | 0.13 | 0.97 | 29.0 | 28.8 | 0.16 | 3.8 | 140 |
| 89976 Dup | 47 | 13.9 | 1.41 | 2.54 | 3.88 | 1.19 | 11.7 | 0.9 | 209 | 64.4 | 2960 | 6.29 | 3.8 | 42.9 | 15.5 | 3.8 | 6.7 | < 0.05 | 0.93 | 28.1 | 28.3 | 0.17 | 3.5 | 146 |
| 89789 Orig | 67 | 20.4 | 2.24 | 2.31 | 6.30 | 1.76 | 1.89 | 0.2 | 84 | 52.7 | 1160 | 4.35 | 1.2 | 31.6 | 2.2 | 3.8 | 0.9 | < 0.05 | 1.91 | 18.4 | 2.64 | 0.20 | 0.7 | 82.4 |
| 89789 Dup | 54 | 19.3 | 2.08 | 2.15 | 5.91 | 1.70 | 1.82 | 0.1 | 74 | 44.3 | 1080 | 4.11 | 0.9 | 30.1 | 2.1 | 3.5 | 0.8 | < 0.05 | 1.85 | 17.3 | 2.42 | 0.17 | 0.6 | 60.5 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | < 0.5 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.1 | < 1 | < 0.5 | < 1 | < 0.01 | < 0.1 | < 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.05 | < 0.1 | < 0.05 | < 0.02 | < 0.1 | < 0.2 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 11.3 | 415 | 0.9 | 16.8 | 261 | 30 | 1.9 | 17.8 | 0.8 | 36 | 93.3 | 13.7 | 624 | 2.9 | 8.5 | | 5.3 | 1.8 | 2.7 | 0.5 | 3.3 | 1080 | | 0.3 |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 18.9 | 99.8 | 120 | 13.9 | 199 | 46 | 10.0 | 312 | 0.2 | 7 | 4.3 | 1.0 | 125 | 54.9 | 101 | | 39.6 | 6.3 | 5.1 | 0.5 | 2.7 | 5590 | | 0.2 |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 |
| SDC-1 Meas | | < 0.1 | | 37.5 | 182 | 40 | | < 0.1 | | < 1 | < 0.1 | | 644 | | | | | | | | | | | |
| SDC-1 Cert | | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | | | |
| SCO-1 Meas | | 11.8 | | 21.6 | 165 | 111 | | 0.8 | | 3 | 0.4 | | 588 | | | | | | | | | | | |
| SCO-1 Cert | | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | | | |
| GXR-6 Meas | 30.8 | 283 | 90.4 | 13.8 | 36.3 | 93 | 1.5 | 1.0 | < 0.1 | < 1 | 1.2 | < 0.1 | 1220 | 13.2 | 35.2 | | 12.5 | 2.6 | 2.6 | 0.4 | 2.5 | 72.3 | | 0.3 |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 |
| DNC-1a Meas | | | | 18.5 | 148 | 47 | | | | | 1.0 | | 103 | 3.6 | | | | 4.9 | | | | | | |
| DNC-1a Cert | | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | | 5.20 | | | | | | |
| OREAS 13b (4-Acid) Meas | | 48.8 | | | | | | 9.4 | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | | | |
| 28163 Orig | 4.9 | < 0.1 | 6.2 | 151 | 976 | 14 | 41.0 | 5.0 | 1.1 | < 1 | 0.2 | 1.7 | 203 | 730 | 2460 | 267 | 935 | > 100 | 101 | 9.6 | 44.9 | 24.6 | 3.8 | 1.9 |
| 28163 Dup | 4.7 | < 0.1 | 6.0 | 151 | 952 | 15 | 26.8 | 6.4 | 1.1 | < 1 | 0.2 | 1.7 | 205 | 723 | 2450 | 268 | 935 | > 100 | 103 | 9.7 | 44.7 | 24.8 | 3.8 | 1.9 |
| 89976 Orig | 7.6 | 4.2 | 45.4 | 147 | 925 | 7 | 30.3 | 2.9 | 0.2 | < 1 | < 0.1 | 0.4 | 462 | 653 | 1580 | 220 | 718 | > 100 | 83.2 | 8.8 | 41.2 | 21.0 | 1.7 | 2.0 |
| 89976 Dup | 8.1 | 7.0 | 44.0 | 141 | 887 | 303 | > 500 | 3.3 | 0.2 | 4 | 0.2 | 1.2 | 446 | 633 | 1540 | 215 | 704 | > 100 | 81.6 | 8.2 | 39.5 | 23.5 | 1.9 | 1.9 |
| 89789 Orig | 13.1 | 0.3 | 70.5 | 21.7 | 346 | 88 | 20.5 | 2.9 | < 0.1 | < 1 | < 0.1 | 0.2 | 610 | 57.6 | 127 | 15.4 | 57.6 | 10.0 | 8.0 | 1.0 | 5.0 | 19.6 | 0.4 | 0.3 |
| 89789 Dup | 12.6 | 0.2 | 67.7 | 20.3 | 326 | 56 | 16.7 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 593 | 56.8 | 122 | 14.4 | 53.8 | 9.2 | 7.8 | 0.9 | 4.9 | 18.5 | 0.4 | 0.3 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.1 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 1.6 | 0.2 | < 0.1 | 182 | | 0.39 | 722 | < 1 | 3.5 | 34.9 | | 0.054 | 0.24 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| DH-1a Meas | | | | | | | | | > 200 | 2570 | | | |
| DH-1a Cert | | | | | | | | | 910 | 2630 | | | |
| GXR-4 Meas | 1.0 | 0.2 | 0.6 | 38.0 | | 3.12 | 50.8 | 8 | 17.5 | 6.7 | | 0.131 | 1.78 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| SDC-1 Meas | | | | < 0.1 | | | 24.2 | 16 | | | 0.0997 | 0.053 | 0.06 |
| SDC-1 Cert | | | | 0.800 | | | 25.0 | 17.0 | | | 0.606 | 0.0690 | 0.0650 |
| SCO-1 Meas | | | | 0.4 | | | 34.6 | 13 | | | 0.354 | 0.086 | |
| SCO-1 Cert | | | | 1.40 | | | 31.0 | 10.8 | | | 0.380 | 0.0900 | |
| GXR-6 Meas | 1.6 | 0.2 | < 0.1 | 0.4 | | 2.24 | 105 | 33 | 4.9 | 1.8 | | 0.039 | 0.02 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 |
| DNC-1a Meas | 2.1 | | | | | | | 33 | | | | | |
| DNC-1a Cert | 2.00 | | | | | | | 31.0 | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.23 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| 28163 Orig | 9.9 | 1.5 | 2.7 | < 0.1 | 0.139 | 0.87 | 670 | 53 | > 200 | 924 | 0.332 | 0.722 | 0.03 |
| 28163 Dup | 9.8 | 1.5 | 2.0 | 0.3 | 0.147 | 0.86 | 665 | 51 | > 200 | 909 | 0.306 | 0.680 | 0.03 |
| 89976 Orig | 10.5 | 1.5 | 1.0 | 0.2 | 0.002 | 0.60 | 99.3 | 25 | > 200 | 38.8 | 0.0176 | 2.78 | 0.02 |
| 89976 Dup | 10.7 | 1.6 | 16.9 | 2.9 | 0.001 | 0.60 | 99.3 | 24 | > 200 | 33.8 | 0.106 | 2.76 | 0.02 |
| 89789 Orig | 1.6 | 0.2 | 2.4 | 0.5 | 0.001 | 0.45 | 21.5 | | 31.2 | 16.4 | | | |
| 89789 Dup | 1.5 | 0.2 | 1.9 | 0.4 | 0.002 | 0.42 | 19.5 | | 15.9 | 13.0 | | | |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | | < 0.1 | < 0.1 | | | |



Date Submitted: 25-Oct-10
Invoice No.: A10-7532
Invoice Date: 24-Dec-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

123 Soil samples were submitted for analysis.

The following analytical package was requested: Code UT-6-Dahrouge Total Digestion ICP & ICP/MS

REPORT **A10-7532**

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Notes:

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A10-7532 rev 3

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87326 | 17.6 | 2.40 | 0.95 | 7.32 | 2.10 | 1.37 | 0.2 | 66 | 71.4 | 420 | 3.59 | 3.7 | 30.0 | 1.1 | 1.4 | 0.4 | < 0.05 | 1.44 | 10.6 | 1.00 | 0.07 | 0.6 | 51.1 | 17.0 |
| 87327 | 17.1 | 2.37 | 0.85 | 7.05 | 2.04 | 1.50 | 0.2 | 67 | 62.5 | 479 | 3.35 | 5.0 | 29.4 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.20 | 10.3 | 0.99 | 0.06 | 0.6 | 59.4 | 15.2 |
| 87328 | 13.2 | 2.33 | 0.69 | 6.64 | 2.11 | 1.57 | < 0.1 | 51 | 50.6 | 317 | 2.58 | 4.6 | 19.9 | 1.2 | 1.4 | 0.5 | 0.07 | 1.08 | 7.1 | 1.10 | 0.05 | < 0.1 | 27.8 | 12.4 |
| 87329 | 11.9 | 2.27 | 0.68 | 6.89 | 1.91 | 1.28 | 0.1 | 62 | 69.1 | 416 | 3.23 | 4.9 | 21.7 | 1.1 | 1.4 | 0.4 | 0.06 | 1.16 | 8.3 | 1.14 | 0.07 | < 0.1 | 43.4 | 14.7 |
| 87330 | 39.9 | 2.36 | 1.18 | 7.06 | 2.00 | 1.97 | 0.3 | 110 | 118 | 1270 | 5.49 | 2.9 | 55.5 | 6.3 | 7.2 | 2.8 | < 0.05 | 1.88 | 15.4 | 14.8 | 0.27 | 0.9 | 106 | 17.4 |
| 87331 | 61.2 | 1.87 | 2.04 | 5.84 | 1.91 | 2.68 | 0.6 | 181 | 144 | 4130 | 7.66 | 0.3 | 142 | 7.0 | 8.9 | 3.1 | 0.08 | 2.26 | 28.8 | 13.0 | 0.26 | 0.8 | 176 | 14.6 |
| 87332 | 42.7 | 2.02 | 1.48 | 6.28 | 2.05 | 1.91 | 0.5 | 110 | 153 | 2880 | 6.42 | 3.6 | 95.6 | 5.6 | 5.4 | 2.9 | < 0.05 | 1.94 | 23.2 | 19.2 | 0.54 | 0.8 | 288 | 14.1 |
| 87333 | 73.6 | 1.56 | 1.45 | 6.09 | 1.76 | 1.34 | 0.4 | 112 | 161 | 2050 | 7.74 | 2.4 | 86.7 | 5.0 | 5.3 | 2.4 | < 0.05 | 1.77 | 26.3 | 13.0 | 0.38 | 0.5 | 280 | 13.3 |
| 87334 | 30.9 | 1.79 | 2.43 | 5.93 | 1.92 | 4.32 | 0.6 | 99 | 72.7 | 1430 | 5.46 | < 0.1 | 63.7 | 5.0 | 4.8 | 2.3 | 0.10 | 1.76 | 18.1 | 12.5 | 0.32 | 0.4 | 201 | 12.8 |
| 87335 | 42.4 | 2.05 | 2.52 | 6.50 | 2.33 | 3.38 | 0.4 | 104 | 152 | 1380 | 5.78 | 2.7 | 127 | 3.5 | 5.1 | 1.6 | < 0.05 | 2.42 | 28.6 | 5.11 | 0.21 | 0.3 | 163 | 14.3 |
| 87336 | 35.0 | 2.17 | 2.66 | 6.73 | 2.28 | 3.44 | 0.3 | 117 | 117 | 960 | 5.25 | 3.7 | 87.9 | 3.1 | 4.6 | 1.3 | < 0.05 | 2.14 | 20.7 | 4.88 | 0.14 | 0.5 | 130 | 16.8 |
| 87337 | 28.8 | 1.63 | 1.88 | 5.96 | 1.75 | 3.05 | 0.4 | 102 | 86.1 | 2240 | 6.07 | < 0.1 | 50.8 | 6.5 | 5.0 | 3.0 | 0.08 | 1.80 | 15.4 | 17.5 | 0.31 | 0.2 | 138 | 12.7 |
| 87338 | 32.8 | 2.07 | 1.19 | 6.39 | 1.92 | 1.94 | 0.5 | 90 | 89.0 | 1850 | 5.15 | 2.1 | 45.6 | 4.2 | 3.3 | 1.8 | < 0.05 | 1.43 | 15.8 | 9.48 | 0.21 | 0.4 | 96.4 | 13.6 |
| 87339 | 32.2 | 1.75 | 1.55 | 6.09 | 1.76 | 2.43 | 0.5 | 109 | 121 | 2810 | 6.45 | 1.7 | 56.2 | 5.3 | 4.4 | 2.4 | < 0.05 | 1.83 | 19.9 | 14.7 | 0.60 | 0.2 | 156 | 14.0 |
| 87340 | 28.7 | 2.07 | 1.55 | 6.57 | 1.97 | 2.58 | 0.6 | 112 | 76.9 | 2350 | 5.51 | 0.1 | 55.2 | 6.9 | 4.4 | 2.9 | < 0.05 | 1.64 | 19.4 | 12.7 | 0.23 | 0.5 | 135 | 15.9 |
| 87341 | 28.5 | 1.53 | 1.99 | 5.13 | 1.54 | 3.17 | 0.8 | 127 | 87.4 | 3470 | 6.85 | 1.7 | 53.7 | 7.0 | 6.2 | 3.3 | 0.12 | 1.96 | 19.4 | 18.1 | 0.61 | 0.7 | 244 | 13.0 |
| 87342 | 38.9 | 1.80 | 1.76 | 5.93 | 1.83 | 2.47 | 0.5 | 128 | 83.1 | 2830 | 7.11 | 0.1 | 76.7 | 6.9 | 6.4 | 3.2 | 0.06 | 2.02 | 22.9 | 16.7 | 0.40 | 0.4 | 214 | 12.8 |
| 87343 | 41.3 | 2.25 | 1.58 | 6.48 | 1.52 | 1.40 | 0.5 | 130 | 223 | 2210 | 7.05 | 3.4 | 124 | 4.3 | 5.4 | 2.1 | < 0.05 | 1.87 | 25.1 | 13.7 | 0.47 | 0.4 | 189 | 14.7 |
| 87344 | 24.3 | 1.96 | 1.61 | 6.38 | 1.93 | 2.84 | 0.3 | 95 | 62.1 | 2000 | 5.39 | < 0.1 | 49.1 | 4.6 | 3.4 | 2.0 | 0.09 | 1.79 | 18.1 | 9.50 | 0.36 | 0.3 | 96.3 | 13.3 |
| 87345 | 53.9 | 2.88 | 1.76 | 6.79 | 1.60 | 2.52 | 0.3 | 145 | 46.3 | 1950 | 6.35 | < 0.1 | 62.9 | 3.9 | 4.8 | 1.8 | < 0.05 | 2.05 | 20.1 | 7.07 | 0.12 | < 0.1 | 96.6 | 16.3 |
| 87346 | 21.3 | 2.23 | 1.07 | 6.89 | 1.82 | 1.69 | < 0.1 | 69 | 68.5 | 652 | 4.01 | 0.6 | 49.4 | 1.8 | 1.9 | 0.8 | < 0.05 | 1.63 | 13.2 | 2.51 | 0.11 | < 0.1 | 58.6 | 14.2 |
| 87347 | 17.2 | 2.34 | 0.94 | 7.32 | 2.02 | 1.34 | 0.1 | 67 | 62.0 | 410 | 3.60 | 3.1 | 33.6 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.26 | 11.6 | 1.39 | 0.07 | < 0.1 | 44.6 | 15.9 |
| 87348 | 14.4 | 2.10 | 0.85 | 7.06 | 2.08 | 1.26 | 0.1 | 53 | 62.5 | 404 | 3.34 | 4.4 | 26.3 | 1.2 | 1.3 | 0.5 | < 0.05 | 1.48 | 9.3 | 1.30 | 0.08 | < 0.1 | 33.6 | 15.4 |
| 87349 | 15.9 | 2.66 | 0.92 | 7.69 | 2.31 | 1.62 | 0.1 | 64 | 66.1 | 585 | 3.56 | 4.8 | 31.9 | 1.6 | 1.5 | 0.6 | < 0.05 | 1.28 | 13.1 | 1.36 | 0.07 | < 0.1 | 36.2 | 17.0 |
| 87350 | 28.7 | 1.70 | 0.79 | 5.70 | 1.56 | 2.74 | 0.2 | 75 | 63.9 | 1660 | 7.69 | < 0.1 | 32.1 | 7.3 | 1.8 | 3.5 | 0.12 | 1.10 | 26.9 | 28.3 | 0.26 | 0.6 | 57.5 | 12.4 |
| 87351 | 81.8 | 1.34 | 3.80 | 3.69 | 1.05 | 6.22 | 0.6 | 172 | 494 | 4030 | 8.42 | < 0.1 | 342 | 9.0 | 12.4 | 4.3 | 0.18 | 2.45 | 40.7 | 21.5 | 0.33 | 0.7 | 229 | 11.2 |
| 87352 | 47.8 | 2.11 | 3.19 | 5.47 | 1.79 | 3.03 | 0.3 | 116 | 398 | 1680 | 6.17 | 2.4 | 296 | 4.2 | 10.9 | 1.9 | < 0.05 | 2.44 | 33.8 | 8.90 | 0.25 | 0.2 | 197 | 13.9 |
| 87353 | 48.6 | 1.81 | 2.07 | 6.08 | 1.99 | 2.52 | 0.7 | 104 | 99.3 | 3710 | 6.26 | < 0.1 | 101 | 5.1 | 6.2 | 2.4 | 0.17 | 2.49 | 25.7 | 11.3 | 0.25 | 0.3 | 187 | 13.4 |
| 87354 | 50.8 | 1.92 | 1.67 | 5.64 | 1.63 | 2.98 | 0.4 | 123 | 170 | 3210 | 7.39 | < 0.1 | 144 | 6.4 | 6.6 | 3.1 | 0.22 | 1.95 | 31.6 | 13.4 | 0.20 | < 0.1 | 87.4 | 12.5 |
| 87355 | 34.0 | 2.35 | 1.42 | 6.64 | 2.08 | 1.64 | 0.3 | 111 | 186 | 1740 | 5.81 | 1.5 | 102 | 2.3 | 3.4 | 1.0 | < 0.05 | 2.09 | 23.7 | 3.85 | 0.22 | < 0.1 | 107 | 16.1 |
| 87356 | 47.9 | 2.03 | 1.53 | 6.60 | 2.02 | 1.64 | 0.3 | 106 | 155 | 1980 | 5.99 | 0.6 | 105 | 3.5 | 5.2 | 1.6 | < 0.05 | 2.14 | 23.7 | 8.82 | 0.29 | 0.3 | 162 | 15.5 |
| 87357 | 29.1 | 1.93 | 1.10 | 6.05 | 1.90 | 2.03 | 1.2 | 105 | 104 | 6000 | 8.43 | 2.5 | 57.8 | 9.1 | 7.0 | 5.5 | < 0.05 | 1.51 | 18.7 | 55.5 | 1.17 | 1.7 | 478 | 12.0 |
| 87358 | 36.4 | 2.34 | 1.55 | 7.07 | 2.25 | 1.87 | 0.2 | 106 | 111 | 1130 | 4.91 | 4.1 | 68.7 | 3.1 | 3.7 | 1.4 | < 0.05 | 1.73 | 18.2 | 5.39 | 0.14 | 0.4 | 111 | 17.2 |
| 87359 | 41.0 | 1.80 | 1.50 | 6.65 | 1.85 | 1.45 | 0.5 | 108 | 132 | 1980 | 6.01 | 3.3 | 71.1 | 5.3 | 4.8 | 2.6 | < 0.05 | 2.01 | 19.3 | 16.3 | 0.48 | < 0.1 | 158 | 15.9 |
| 87360 | 34.1 | 2.02 | 1.65 | 6.98 | 2.11 | 2.00 | 0.2 | 108 | 112 | 1800 | 5.69 | 3.5 | 74.9 | 4.4 | 3.8 | 2.1 | < 0.05 | 2.18 | 22.5 | 9.54 | 0.54 | 0.4 | 139 | 15.5 |
| 87361 | 42.7 | 1.89 | 1.67 | 6.65 | 1.78 | 1.79 | 0.3 | 99 | 107 | 3260 | 6.42 | 2.6 | 63.4 | 5.5 | 4.9 | 2.6 | < 0.05 | 1.78 | 20.0 | 14.6 | 0.31 | 1.1 | 139 | 14.2 |
| 87362 | 30.9 | 1.99 | 1.54 | 6.62 | 1.93 | 1.85 | 0.4 | 97 | 87.0 | 1920 | 5.65 | 2.9 | 55.6 | 5.2 | 4.0 | 2.4 | < 0.05 | 1.96 | 18.4 | 13.5 | 0.46 | 1.0 | 158 | 15.8 |
| 87363 | 33.6 | 1.70 | 2.40 | 6.09 | 1.85 | 4.11 | 0.5 | 118 | 62.2 | 2850 | 6.47 | < 0.1 | 54.7 | 7.0 | 6.8 | 3.1 | 0.15 | 2.09 | 21.9 | 13.3 | 0.26 | 0.9 | 180 | 14.9 |
| 87364 | 39.2 | 1.98 | 2.57 | 6.34 | 1.96 | 3.23 | 0.7 | 135 | 85.1 | 2980 | 7.19 | 0.6 | 66.2 | 6.4 | 7.4 | 2.9 | < 0.05 | 2.13 | 22.9 | 13.6 | 0.30 | 1.0 | 206 | 15.2 |
| 87365 | 35.9 | 1.95 | 2.29 | 6.32 | 1.84 | 4.03 | 0.5 | 106 | 85.7 | 1510 | 5.79 | 0.9 | 70.7 | 4.8 | 5.5 | 2.2 | < 0.05 | 1.78 | 22.2 | 9.48 | 0.22 | 0.9 | 179 | 13.5 |
| 87366 | 34.7 | 1.77 | 1.89 | 5.93 | 1.98 | 3.30 | 0.5 | 100 | 80.5 | 2670 | 6.41 | < 0.1 | 59.8 | 6.9 | 7.1 | 3.1 | 0.08 | 1.79 | 20.0 | 14.2 | 0.26 | 1.1 | 159 | 12.4 |
| 87367 | 32.4 | 1.30 | 1.69 | 5.35 | 1.59 | 3.01 | 0.8 | 97 | 113 | 2830 | 6.36 | < 0.1 | 65.9 | 7.8 | 5.9 | 3.4 | 0.12 | 2.33 | 19.0 | 17.4 | 0.35 | 0.9 | 242 | 11.8 |
| 87368 | 40.6 | 1.95 | 1.95 | 6.64 | 1.78 | 2.50 | 0.1 | 126 | 105 | 1660 | 6.61 | < 0.1 | 74.7 | 6.6 | 6.6 | 2.8 | 0.07 | 1.98 | 21.8 | 11.0 | 0.17 | 1.0 | 94.8 | 15.4 |
| 87369 | 44.4 | 1.63 | 1.87 | 5.88 | 1.47 | 2.29 | 1.0 | 125 | 140 | 7040 | 9.88 | 2.5 | 74.8 | 9.9 | 5.6 | 4.1 | < 0.05 | 1.63 | 24.1 | 20.4 | 0.36 | 1.2 | 159 | 14.0 |
| 87370 | 31.0 | 1.90 | 1.45 | 6.05 | 1.68 | 1.68 | 0.2 | 87 | 84.1 | 1520 | 4.83 | 1.8 | 58.3 | 3.6 | 3.9 | 1.7 | < 0.05 | 1.65 | 16.9 | 8.29 | 0.17 | 0.5 | 98.0 | 14.1 |
| 87371 | 35.0 | 2.06 | 1.74 | 6.82 | 2.08 | 2.14 | 0.3 | 120 | 106 | 1440 | 5.32 | 2.6 | 65.7 | 4.4 | 4.3 | 1.9 | < 0.05 | 1.83 | 18.5 | 8.65 | 0.19 | 0.7 | 140 | 15.8 |
| 87372 | 40.9 | 1.79 | 1.84 | 6.61 | 1.88 | 2.46 | 0.2 | 109 | 73.3 | 1670 | 6.34 | 0.3 | 62.0 | 6.2 | 5.8 | 2.9 | < 0.05 | 2.09 | 19.0 | 12.8 | 0.28 | 0.8 | 158 | 14.4 |
| 87373 | 34.9 | 1.83 | 1.91 | 6.74 | 2.02 | 2.28 | 0.2 | 105 | 66.7 | 1880 | 6.09 | < 0.1 | 63.7 | 4.8 | 4.6 | 2.1 | 0.12 | 2.23 | 20.7 | 9.59 | 0.23 | 0.7 | 137 | 15.9 |
| 87374 | 31.7 | 2.33 | 1.56 | 7.37 | 2.12 | 1.73 | 0.2 | 75 | 82.1 | 962 | 4.86 | 3.5 | 63.6 | 2.7 | 2.5 | 1.1 | < 0.05 | 1.78 | 18.1 | 3.63 | 0.11 | 0.8 | 89.9 | 17.2 |
| 87375 | 30.3 | 2.21 | 1.25 | 6.67 | 1.94 | 1.95 | 0.2 | 87 | 70.6 | 1160 | 4.43 | 0.7 | 49.7 | 2.8 | 3.0 | 1.2 | < 0.05 | 1.50 | 15.8 | 4.39 | 0.12 | 0.7 | 83.6 | 15.1 |
| 87376 | 42.0 | 2.10 | 1.55 | 6.68 | 2.22 | 1.79 | 0.3 | 97 | 131 | 1550 | 5.54 | 3.3 | 94.1 | 4.7 | 5.5 | 2.2 | | | | | | | | |

Activation Laboratories Ltd. Report: A10-7532 rev 3

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87378 | 42.5 | 2.08 | 1.51 | 6.97 | 2.15 | 1.71 | 0.2 | 95 | 144 | 1610 | 5.72 | 4.7 | 83.3 | 4.6 | 5.1 | 2.3 | < 0.05 | 2.03 | 20.2 | 14.6 | 0.57 | 1.0 | 147 | 15.6 |
| 87379 | 38.3 | 2.15 | 1.15 | 6.67 | 1.91 | 1.46 | 0.2 | 67 | 111 | 714 | 4.64 | 2.5 | 76.1 | 2.7 | 4.0 | 1.2 | < 0.05 | 1.57 | 16.8 | 5.40 | 0.14 | 0.3 | 86.2 | 13.9 |
| 87380 | 49.0 | 2.15 | 1.37 | 6.71 | 1.40 | 1.42 | 0.3 | 98 | 204 | 2110 | 5.93 | 5.0 | 102 | 2.7 | 5.2 | 1.2 | < 0.05 | 1.76 | 22.6 | 6.03 | 0.13 | 0.8 | 114 | 15.8 |
| 87381 | 29.7 | 2.05 | 1.01 | 6.46 | 1.68 | 1.46 | 0.2 | 75 | 132 | 1280 | 4.16 | 2.8 | 62.8 | 2.4 | 3.0 | 1.0 | < 0.05 | 1.78 | 15.3 | 4.16 | 0.17 | 0.7 | 75.4 | 14.3 |
| 87382 | 17.6 | 2.10 | 0.92 | 6.92 | 1.77 | 1.52 | < 0.1 | 71 | 53.5 | 405 | 3.06 | 1.1 | 30.4 | 1.4 | 1.5 | 0.6 | < 0.05 | 2.10 | 8.7 | 1.35 | 0.08 | 0.3 | 39.8 | 17.5 |
| 87383 | 16.7 | 2.39 | 0.88 | 7.15 | 2.31 | 1.60 | 0.1 | 56 | 62.2 | 567 | 3.36 | 4.9 | 34.2 | 1.5 | 1.4 | 0.6 | < 0.05 | 1.26 | 13.1 | 1.38 | 0.06 | 0.6 | 36.7 | 14.7 |
| 87384 | 16.4 | 2.29 | 0.83 | 6.91 | 1.74 | 1.48 | 0.2 | 47 | 47.0 | 472 | 3.63 | 2.4 | 28.2 | 1.4 | 1.4 | 0.5 | < 0.05 | 1.12 | 10.1 | 1.52 | 0.07 | 0.4 | 43.9 | 13.7 |
| 87385 | 30.8 | 2.31 | 1.29 | 7.32 | 2.08 | 1.64 | 0.2 | 83 | 97.1 | 1300 | 4.67 | 2.5 | 69.4 | 2.8 | 3.7 | 1.2 | < 0.05 | 1.73 | 17.7 | 5.08 | 0.13 | 0.7 | 89.4 | 16.4 |
| 87386 | 40.8 | 2.27 | 1.63 | 7.08 | 1.84 | 1.71 | 0.3 | 108 | 136 | 1840 | 5.65 | 0.7 | 97.3 | 4.7 | 4.6 | 2.1 | < 0.05 | 1.85 | 22.6 | 7.86 | 0.15 | 0.8 | 122 | 16.0 |
| 87387 | 16.5 | 2.29 | 0.71 | 6.60 | 2.11 | 1.54 | 0.1 | 55 | 68.3 | 341 | 2.68 | 3.8 | 23.7 | 1.4 | 1.7 | 0.6 | < 0.05 | 1.17 | 7.0 | 1.81 | 0.07 | 0.4 | 32.8 | 14.8 |
| 87388 | 6.2 | 2.50 | 0.43 | 6.97 | 2.30 | 1.44 | 0.2 | 26 | 36.8 | 265 | 1.32 | 4.6 | 9.6 | 0.9 | 1.3 | 0.3 | < 0.05 | 1.11 | 3.4 | 1.04 | 0.05 | 0.3 | 16.6 | 13.9 |
| 87389 | 47.0 | 1.98 | 1.73 | 6.73 | 2.06 | 1.91 | 0.3 | 102 | 133 | 2280 | 6.56 | 3.9 | 89.1 | 5.5 | 5.4 | 2.6 | < 0.05 | 1.99 | 22.9 | 14.7 | 0.44 | 0.9 | 192 | 15.3 |
| 87390 | 24.5 | 2.22 | 0.85 | 5.24 | 1.00 | 1.57 | < 0.1 | 62 | 86.2 | 578 | 3.60 | 5.0 | 38.0 | 1.8 | 2.0 | 0.7 | < 0.05 | 1.14 | 11.9 | 2.40 | 0.14 | 0.6 | 61.3 | 13.9 |
| 87391 | 37.4 | 2.04 | 2.54 | 6.83 | 2.04 | 2.34 | 0.3 | 113 | 141 | 1640 | 5.52 | 3.3 | 80.9 | 3.5 | 4.5 | 1.5 | 0.06 | 2.27 | 23.3 | 5.71 | 0.22 | 0.4 | 165 | 17.6 |
| 87392 | 31.5 | 2.02 | 1.46 | 6.87 | 1.70 | 1.73 | 0.3 | 89 | 88.8 | 1490 | 5.39 | 0.5 | 59.7 | 3.2 | 3.5 | 1.5 | < 0.05 | 1.85 | 18.8 | 6.65 | 0.21 | 0.8 | 114 | 15.1 |
| 87393 | 58.9 | 1.54 | 2.47 | 5.99 | 1.73 | 3.80 | 0.6 | 149 | 72.5 | 2490 | 8.80 | < 0.1 | 58.1 | 9.9 | 6.5 | 4.4 | 0.13 | 2.19 | 23.7 | 21.4 | 0.56 | 1.6 | 273 | 16.1 |
| 87394 | 40.4 | 1.89 | 2.20 | 6.75 | 2.31 | 2.97 | 0.4 | 102 | 98.9 | 1250 | 5.35 | 1.9 | 73.6 | 3.6 | 4.7 | 1.6 | < 0.05 | 2.07 | 20.4 | 6.18 | 0.21 | 0.8 | 173 | 15.1 |
| 87395 | 27.4 | 1.65 | 1.70 | 5.92 | 1.80 | 2.59 | 0.5 | 86 | 124 | 1920 | 5.27 | 0.3 | 60.6 | 4.5 | 4.1 | 2.0 | < 0.05 | 1.86 | 16.8 | 11.1 | 0.24 | 0.7 | 168 | 13.9 |
| 87396 | 36.3 | 1.77 | 1.77 | 6.37 | 1.83 | 2.42 | 0.5 | 107 | 118 | 2110 | 5.86 | 3.6 | 62.9 | 5.8 | 4.5 | 2.6 | < 0.05 | 1.89 | 18.9 | 13.8 | 0.28 | < 0.1 | 179 | 14.8 |
| 87397 | 37.7 | 2.01 | 2.04 | 6.84 | 1.76 | 2.31 | 0.3 | 129 | 97.2 | 1800 | 6.11 | 2.3 | 64.2 | 8.2 | 5.4 | 3.6 | < 0.05 | 1.76 | 18.6 | 17.7 | 0.23 | 0.6 | 131 | 16.7 |
| 87398 | 38.4 | 2.07 | 1.87 | 5.74 | 1.16 | 1.92 | 0.1 | 117 | 117 | 1270 | 5.24 | 2.7 | 70.1 | 4.3 | 5.5 | 1.7 | < 0.05 | 1.86 | 19.0 | 5.92 | 0.12 | < 0.1 | 106 | 15.8 |
| 87399 | 35.1 | 1.34 | 1.66 | 4.49 | 1.29 | 3.56 | 0.8 | 95 | 79.7 | 3610 | 5.50 | < 0.1 | 53.2 | 6.2 | 5.4 | 2.7 | 0.10 | 1.47 | 18.9 | 12.2 | 0.22 | < 0.1 | 166 | 11.1 |
| 87400 | 30.5 | 1.56 | 1.46 | 5.10 | 1.43 | 3.31 | 0.8 | 105 | 79.9 | 3330 | 6.08 | < 0.1 | 50.9 | 7.7 | 5.6 | 3.4 | 0.14 | 1.38 | 19.9 | 17.5 | 0.31 | < 0.1 | 161 | 11.8 |
| 43176 | 30.9 | 1.52 | 1.43 | 5.10 | 1.37 | 2.88 | 0.6 | 106 | 80.7 | 2750 | 5.46 | < 0.1 | 47.9 | 7.8 | 4.7 | 3.4 | < 0.05 | 1.46 | 16.5 | 15.9 | 0.30 | < 0.1 | 124 | 13.2 |
| 43177 | 28.8 | 1.80 | 1.26 | 6.07 | 1.59 | 2.77 | 0.4 | 86 | 49.5 | 1600 | 5.55 | < 0.1 | 41.2 | 5.2 | 3.8 | 2.4 | < 0.05 | 1.28 | 13.1 | 13.2 | 0.21 | < 0.1 | 94.3 | 12.4 |
| 43178 | 39.9 | 1.82 | 2.79 | 6.16 | 1.82 | 3.98 | 0.4 | 118 | 57.4 | 2360 | 6.11 | < 0.1 | 53.8 | 5.8 | 5.8 | 2.5 | 0.10 | 2.11 | 21.3 | 11.3 | 0.21 | 0.3 | 175 | 15.0 |
| 43179 | 32.5 | 1.23 | 1.16 | 4.53 | 0.92 | 2.91 | 0.8 | 126 | 57.5 | 5080 | 8.23 | < 0.1 | 37.3 | 12.2 | 4.5 | 5.6 | 0.07 | 0.85 | 16.1 | 30.9 | 1.45 | 0.7 | 128 | 10.6 |
| 43180 | 27.4 | 1.76 | 2.31 | 5.44 | 1.58 | 2.69 | 0.5 | 98 | 107 | 2200 | 5.53 | 2.4 | 55.6 | 4.2 | 4.9 | 1.8 | < 0.05 | 2.51 | 20.3 | 8.60 | 0.34 | < 0.1 | 188 | 14.7 |
| 43181 | 43.5 | 2.19 | 1.49 | 7.14 | 1.90 | 1.82 | 0.2 | 104 | 106 | 1090 | 5.08 | 4.3 | 55.6 | 3.6 | 4.2 | 1.5 | < 0.05 | 1.90 | 17.7 | 6.70 | 0.20 | < 0.1 | 108 | 16.4 |
| 43182 | 46.7 | 2.50 | 1.48 | 6.83 | 1.76 | 1.67 | 0.3 | 110 | 140 | 1200 | 5.53 | 3.8 | 90.2 | 2.8 | 4.3 | 1.2 | < 0.05 | 1.45 | 22.7 | 3.99 | 0.12 | 0.7 | 115 | 15.9 |
| 43183 | 59.4 | 1.89 | 1.86 | 6.11 | 1.71 | 1.80 | 0.2 | 113 | 155 | 2090 | 6.76 | 3.1 | 107 | 6.9 | 6.6 | 3.2 | < 0.05 | 1.93 | 24.4 | 16.4 | 0.56 | < 0.1 | 217 | 14.8 |
| 43184 | 44.0 | 1.94 | 1.33 | 6.22 | 1.85 | 1.80 | 0.3 | 92 | 130 | 1540 | 4.96 | 2.8 | 76.8 | 3.4 | 4.4 | 1.6 | < 0.05 | 1.84 | 15.5 | 9.28 | 0.30 | < 0.1 | 140 | 15.9 |
| 43185 | 39.8 | 1.96 | 1.08 | 5.85 | 1.73 | 1.88 | 0.5 | 90 | 87.0 | 1000 | 4.51 | 0.5 | 79.6 | 5.7 | 4.8 | 3.0 | 0.15 | 1.87 | 9.7 | 24.9 | 0.62 | < 0.1 | 132 | 15.1 |
| 43186 | 87.7 | 1.52 | 1.75 | 5.84 | 1.54 | 5.78 | 0.4 | 110 | 130 | 2640 | 7.65 | < 0.1 | 59.5 | 16.7 | 17.7 | 7.3 | 0.12 | 1.93 | 19.4 | 25.1 | 0.26 | 0.5 | 366 | 13.4 |
| 43187 | 14.0 | 2.09 | 0.76 | 6.76 | 2.11 | 1.13 | 0.3 | 59 | 69.6 | 309 | 3.88 | 3.5 | 29.4 | 1.1 | 1.6 | 0.4 | 0.06 | 1.94 | 6.9 | 1.44 | 0.09 | < 0.1 | 38.0 | 17.7 |
| 43188 | 40.0 | 1.98 | 1.22 | 6.65 | 1.80 | 1.45 | 0.1 | 97 | 100 | 1320 | 4.89 | 1.0 | 65.4 | 2.8 | 2.9 | 1.3 | < 0.05 | 2.02 | 16.4 | 5.98 | 0.16 | < 0.1 | 83.0 | 14.9 |
| 43189 | 23.1 | 2.14 | 0.91 | 6.43 | 1.95 | 1.17 | 0.3 | 68 | 115 | 397 | 4.42 | < 0.1 | 44.8 | 2.0 | 4.1 | 0.9 | < 0.05 | 1.84 | 8.8 | 5.02 | 0.18 | < 0.1 | 50.4 | 17.8 |
| 43190 | 143 | 0.90 | 4.59 | 4.99 | 1.22 | 5.52 | 0.8 | 106 | 83.5 | 9600 | 6.57 | < 0.1 | 49.7 | 9.3 | 13.7 | 4.4 | 0.13 | 2.15 | 22.4 | 29.0 | 1.27 | 0.3 | 242 | 8.5 |
| 43191 | 44.8 | 1.78 | 1.19 | 6.55 | 1.48 | 2.19 | 2.1 | 124 | 144 | 6310 | 8.75 | 1.5 | 78.5 | 16.1 | 7.0 | 7.2 | < 0.05 | 1.30 | 21.4 | 43.6 | 0.87 | 0.9 | 221 | 12.1 |
| 43192 | 33.4 | 2.33 | 1.13 | 7.48 | 1.96 | 1.48 | 0.2 | 67 | 92.1 | 590 | 4.17 | 4.3 | 59.9 | 2.1 | 3.4 | 0.9 | < 0.05 | 1.47 | 14.7 | 3.71 | 0.11 | < 0.1 | 68.0 | 15.3 |
| 43193 | 27.4 | 2.17 | 0.99 | 6.70 | 2.14 | 1.14 | 0.1 | 94 | 112 | 475 | 3.66 | 4.4 | 47.6 | 1.7 | 2.2 | 0.8 | < 0.05 | 2.41 | 9.3 | 3.84 | 0.15 | < 0.1 | 97.6 | 20.0 |
| 43194 | 63.8 | 1.58 | 1.41 | 6.22 | 1.76 | 1.10 | 0.5 | 128 | 162 | 2230 | 7.27 | 3.3 | 71.1 | 3.4 | 4.2 | 1.5 | < 0.05 | 1.58 | 24.4 | 8.08 | 0.17 | < 0.1 | 144 | 14.9 |
| 43195 | 52.5 | 1.89 | 1.84 | 6.82 | 1.75 | 2.39 | 0.1 | 102 | 102 | 1430 | 6.18 | < 0.1 | 88.1 | 5.7 | 5.9 | 2.5 | < 0.05 | 1.89 | 21.1 | 11.6 | 0.27 | < 0.1 | 132 | 15.3 |
| 43196 | 66.8 | 1.60 | 1.96 | 5.42 | 1.45 | 2.89 | 0.9 | 130 | 248 | 6230 | 9.09 | 0.6 | 154 | 9.4 | 13.4 | 4.6 | < 0.05 | 2.19 | 28.5 | 33.8 | 0.82 | 1.1 | 273 | 13.6 |
| 43197 | 117 | 1.96 | 2.03 | 6.98 | 1.95 | 1.76 | 0.3 | 134 | 292 | 1750 | 7.78 | 3.3 | 167 | 5.2 | 7.8 | 2.4 | < 0.05 | 1.37 | 29.8 | 13.4 | 0.31 | < 0.1 | 227 | 17.4 |
| 43198 | 58.5 | 2.08 | 2.19 | 6.83 | 2.06 | 2.32 | 0.4 | 115 | 148 | 2780 | 6.79 | 3.9 | 105 | 5.5 | 6.3 | 2.5 | < 0.05 | 2.11 | 27.8 | 13.6 | 0.44 | < 0.1 | 249 | 15.8 |
| 43199 | 22.7 | 1.10 | 0.96 | 3.85 | 1.02 | 5.67 | 1.9 | 112 | 62.0 | 7310 | 7.60 | < 0.1 | 35.3 | 14.0 | 12.0 | 7.0 | 0.17 | 1.33 | 16.5 | 47.1 | 0.78 | 1.0 | 354 | 7.5 |
| 43200 | 45.4 | 2.09 | 1.43 | 6.87 | 1.75 | 1.84 | 0.2 | 111 | 116 | 1520 | 5.61 | 4.0 | 59.4 | 3.7 | 4.2 | 1.8 | < 0.05 | 1.75 | 21.8 | 9.15 | 0.26 | < 0.1 | 156 | 15.5 |
| 46501 | 47.9 | 1.78 | 1.67 | 6.20 | 1.60 | 2.53 | 0.3 | 90 | 80.3 | 2230 | 6.11 | 0.6 | 47.2 | 5.6 | 5.1 | 2.5 | < 0.05 | 1.80 | 16.8 | 13.1 | 0.31 | < 0.1 | 161 | 14.2 |
| 46502 | 20.5 | 1.79 | 0.79 | 5.52 | 1.69 | 1.59 | 0.5 | 85 | 75.0 | 1020 | 4.03 | 0.9 | 34.0 | 3.1 | 3.5 | 1.4 | < 0.05 | 2.47 | 10.5 | 6.59 | 0.20 | < 0.1 | 82.8 | 12.9 |
| 46503 | 42.6 | 1.54 | 1.49 | 5.36 | 1.49 | 3.22 | 0.5 | 116 | 86.9 | 3650 | 7. | | | | | | | | | | | | | |

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| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 46505 | 39.5 | 1.54 | 1.80 | 5.98 | 1.68 | 2.89 | 0.3 | 105 | 81.1 | 2280 | 6.48 | < 0.1 | 67.3 | 5.4 | 5.0 | 2.5 | 0.14 | 2.15 | 22.1 | 10.7 | 0.27 | < 0.1 | 152 | 13.1 |
| 46506 | 35.4 | 1.12 | 2.17 | 4.39 | 1.09 | 3.22 | 0.7 | 108 | 221 | 2630 | 5.81 | < 0.1 | 155 | 5.0 | 6.1 | 2.1 | 0.18 | 2.29 | 26.9 | 8.14 | 0.20 | 0.2 | 247 | 9.9 |
| 46507 | 50.0 | 1.40 | 1.51 | 5.78 | 1.38 | 2.46 | 1.1 | 132 | 107 | 5720 | 8.61 | 0.7 | 51.2 | 10.3 | 8.0 | 4.7 | < 0.05 | 1.73 | 21.5 | 27.7 | 0.42 | 1.3 | 216 | 13.0 |
| 46508 | 40.8 | 1.12 | 1.78 | 4.52 | 1.21 | 3.94 | 0.7 | 109 | 77.4 | 4190 | 6.84 | < 0.1 | 55.4 | 7.2 | 6.9 | 3.2 | 0.17 | 1.83 | 22.5 | 14.3 | 0.27 | 0.6 | 166 | 9.6 |
| 46509 | 34.5 | 1.25 | 1.35 | 4.49 | 1.32 | 3.26 | 0.8 | 101 | 75.6 | 1900 | 4.85 | < 0.1 | 49.7 | 5.4 | 4.3 | 2.3 | 0.16 | 1.74 | 14.6 | 10.3 | 0.22 | 0.7 | 132 | 10.6 |
| 46510 | 47.5 | 1.87 | 1.71 | 6.49 | 1.70 | 2.42 | 0.3 | 126 | 110 | 2430 | 6.82 | 0.8 | 58.9 | 8.4 | 5.2 | 3.7 | < 0.05 | 1.66 | 20.6 | 15.9 | 0.28 | 0.9 | 137 | 14.6 |
| 46511 | 52.4 | 1.77 | 1.76 | 6.11 | 1.66 | 2.63 | 0.6 | 117 | 121 | 3900 | 7.83 | 1.5 | 57.3 | 10.0 | 4.4 | 4.4 | < 0.05 | 1.69 | 22.8 | 19.3 | 0.37 | 0.6 | 203 | 12.6 |
| 46512 | 55.5 | 1.87 | 1.70 | 3.10 | 0.52 | 2.53 | 0.8 | 248 | 81.0 | 3980 | 18.3 | 1.8 | 35.3 | 7.3 | 3.6 | 3.5 | < 0.05 | 0.79 | 31.3 | 33.3 | 0.44 | 0.7 | 211 | 16.3 |
| 46513 | 40.4 | 2.14 | 2.00 | 6.57 | 1.52 | 3.19 | 0.2 | 126 | 115 | 2280 | 6.19 | < 0.1 | 99.4 | 4.8 | 6.5 | 2.2 | < 0.05 | 1.50 | 22.5 | 10.4 | 0.23 | 0.4 | 111 | 15.3 |
| 46514 | 2.6 | 0.17 | 7.21 | 0.43 | 0.07 | 14.6 | 1.0 | 19 | 125 | 1660 | 3.25 | < 0.1 | 19.6 | 0.8 | 0.5 | 0.4 | 0.22 | 0.21 | 16.7 | 1.93 | 0.05 | < 0.1 | 149 | < 0.1 |
| 46515 | 74.0 | 1.93 | 2.00 | 6.22 | 1.61 | 2.08 | 0.4 | 132 | 171 | 2450 | 6.93 | 2.7 | 94.7 | 5.0 | 9.5 | 2.2 | < 0.05 | 1.59 | 25.5 | 11.9 | 0.36 | 0.4 | 189 | 12.8 |
| 46516 | 61.8 | 2.06 | 1.61 | 6.01 | 1.42 | 2.49 | 0.5 | 169 | 104 | 1890 | 6.61 | 0.3 | 87.1 | 5.5 | 5.4 | 2.4 | < 0.05 | 0.99 | 23.4 | 11.3 | 0.34 | 0.3 | 129 | 13.9 |
| 46517 | 51.0 | 1.36 | 3.46 | 5.81 | 1.53 | 3.55 | 0.4 | 220 | 43.1 | 2900 | 9.05 | < 0.1 | 57.6 | 6.5 | 12.4 | 3.0 | 0.12 | 2.87 | 29.6 | 13.9 | 0.38 | 0.3 | 182 | 15.0 |
| 46518 | 33.6 | 2.11 | 1.38 | 6.78 | 1.84 | 2.20 | 0.2 | 88 | 122 | 1110 | 4.72 | 1.9 | 51.9 | 2.7 | 3.0 | 1.2 | < 0.05 | 1.52 | 15.3 | 5.02 | 0.13 | < 0.1 | 87.1 | 12.8 |
| 46519 | 27.8 | 2.04 | 1.00 | 6.42 | 1.80 | 1.37 | 0.2 | 99 | 120 | 888 | 5.10 | 2.4 | 43.4 | 2.1 | 3.5 | 0.9 | < 0.05 | 1.53 | 14.6 | 3.77 | 0.16 | < 0.1 | 63.8 | 14.6 |
| 46520 | 56.5 | 2.03 | 1.77 | 6.87 | 2.13 | 1.59 | 0.1 | 87 | 70.7 | 1380 | 5.05 | 1.2 | 36.7 | 2.4 | 3.7 | 1.1 | < 0.05 | 2.47 | 15.5 | 5.68 | 0.12 | < 0.1 | 91.9 | 14.2 |
| 46521 | 22.9 | 2.44 | 1.14 | 7.53 | 2.14 | 1.57 | 0.2 | 73 | 69.0 | 685 | 3.61 | 4.5 | 39.2 | 1.8 | 1.9 | 0.7 | < 0.05 | 1.51 | 13.9 | 1.76 | 0.07 | 0.3 | 66.4 | 14.2 |
| 46522 | 22.3 | 2.25 | 0.89 | 5.51 | 1.06 | 1.21 | 0.2 | 57 | 85.4 | 499 | 3.56 | 4.2 | 35.1 | 1.3 | 1.7 | 0.5 | < 0.05 | 1.11 | 10.5 | 1.40 | 0.10 | < 0.1 | 51.3 | 14.3 |
| 46523 | 27.3 | 2.06 | 1.00 | 7.07 | 1.93 | 1.46 | 0.2 | 70 | 85.8 | 758 | 4.27 | 2.2 | 39.1 | 1.7 | 2.6 | 0.7 | < 0.05 | 1.60 | 12.7 | 2.68 | 0.13 | < 0.1 | 76.8 | 13.5 |

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| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87326 | 7.3 | 76.2 | 10.1 | 307 | 154 | 8.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 689 | 27.4 | 68.0 | 6.4 | 23.2 | 4.0 | 3.2 | 0.4 | 2.1 | 8.9 | 0.5 | 0.2 | 1.0 |
| 87327 | 4.0 | 73.1 | 12.4 | 332 | 208 | 11.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 697 | 28.9 | 64.0 | 7.0 | 25.4 | 4.5 | 3.5 | 0.5 | 2.6 | 11.6 | 0.3 | 0.2 | 1.0 |
| 87328 | < 0.1 | 68.4 | 10.5 | 330 | 180 | 19.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 724 | 29.8 | 59.4 | 6.7 | 23.8 | 4.0 | 3.6 | 0.5 | 2.5 | 4.5 | 0.4 | 0.2 | 0.9 |
| 87329 | 6.5 | 65.3 | 9.4 | 289 | 180 | 14.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 650 | 34.9 | 71.4 | 8.0 | 29.7 | 4.9 | 3.8 | 0.4 | 2.3 | 3.2 | 0.5 | 0.2 | 0.9 |
| 87330 | 4.9 | 81.2 | 62.0 | 367 | 164 | 210 | 12.7 | 0.1 | 3 | < 0.1 | 0.2 | 716 | 391 | 847 | 103 | 376 | 57.9 | 37.3 | 3.9 | 17.2 | 7.4 | 0.7 | 0.8 | 4.0 |
| 87331 | 4.6 | 82.6 | 71.8 | 454 | 56 | 14.9 | 6.2 | 0.1 | < 1 | < 0.1 | 0.2 | 768 | 440 | 873 | 99.2 | 352 | 50.3 | 35.6 | 4.0 | 18.9 | 40.3 | 0.8 | 0.8 | 4.3 |
| 87332 | 3.4 | 76.5 | 66.6 | 353 | 161 | 127 | 3.8 | 0.2 | 4 | 0.2 | 0.1 | 749 | 626 | 1190 | 128 | 440 | 70.5 | 52.7 | 5.4 | 21.9 | 28.9 | 0.9 | 0.6 | 3.1 |
| 87333 | 6.6 | 62.0 | 46.3 | 250 | 114 | 253 | 69.8 | 0.2 | 4 | 0.1 | 0.1 | 582 | 360 | 755 | 83.3 | 310 | 48.5 | 35.2 | 3.7 | 16.2 | 15.0 | 0.8 | 0.6 | 2.9 |
| 87334 | 2.6 | 71.7 | 52.9 | 526 | 36 | 7.2 | 8.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 685 | 486 | 901 | 95.0 | 336 | 47.3 | 33.6 | 3.5 | 15.3 | 24.2 | 0.6 | 0.6 | 3.1 |
| 87335 | 2.8 | 86.8 | 33.8 | 414 | 131 | 45.5 | 5.8 | < 0.1 | 2 | 0.2 | 0.1 | 777 | 164 | 312 | 34.8 | 121 | 19.0 | 15.6 | 1.9 | 9.0 | 46.0 | 0.7 | 0.4 | 2.2 |
| 87336 | 9.1 | 93.7 | 31.0 | 433 | 168 | 111 | 5.4 | < 0.1 | 2 | 0.1 | 0.3 | 752 | 162 | 313 | 37.3 | 131 | 19.2 | 13.4 | 1.5 | 7.4 | 30.3 | 0.5 | 0.4 | 2.1 |
| 87337 | 5.9 | 66.3 | 65.6 | 430 | 24 | 22.3 | 6.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 708 | 635 | 1210 | 134 | 479 | 68.0 | 47.6 | 4.7 | 19.7 | 21.2 | 0.9 | 0.8 | 4.2 |
| 87338 | 2.5 | 64.5 | 40.2 | 374 | 134 | 162 | 1.9 | < 0.1 | 2 | < 0.1 | < 0.1 | 721 | 308 | 642 | 74.0 | 272 | 38.2 | 24.8 | 2.5 | 11.4 | 19.4 | 0.6 | 0.5 | 2.7 |
| 87339 | 11.1 | 68.7 | 55.1 | 392 | 123 | 154 | 4.1 | 0.1 | 2 | 0.1 | 0.2 | 726 | 581 | 1070 | 119 | 437 | 60.5 | 38.8 | 3.7 | 15.7 | 21.8 | 0.8 | 0.7 | 3.7 |
| 87340 | 11.3 | 81.0 | 69.7 | 441 | 45 | 128 | 7.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 778 | 426 | 875 | 100 | 357 | 50.8 | 33.6 | 3.7 | 17.5 | 27.4 | 0.7 | 0.9 | 4.6 |
| 87341 | 6.8 | 72.5 | 77.9 | 495 | 114 | 26.3 | 4.2 | 0.1 | < 1 | < 0.1 | 0.2 | 789 | 862 | 1630 | 177 | 598 | 75.4 | 45.8 | 4.7 | 21.1 | 25.4 | 1.0 | 0.8 | 4.0 |
| 87342 | 2.6 | 78.5 | 71.1 | 397 | 34 | 53.1 | 3.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 797 | 761 | 1400 | 147 | 487 | 65.8 | 44.7 | 4.7 | 20.8 | 28.4 | 1.1 | 0.8 | 4.1 |
| 87343 | 1.6 | 58.9 | 42.1 | 264 | 154 | 188 | 4.2 | 0.1 | 3 | < 0.1 | 0.2 | 650 | 728 | 1300 | 129 | 429 | 55.8 | 37.1 | 3.4 | 14.1 | 16.5 | 1.0 | 0.5 | 2.5 |
| 87344 | 3.8 | 75.9 | 45.4 | 408 | 19 | 8.1 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 786 | 255 | 565 | 67.5 | 249 | 36.9 | 25.5 | 2.8 | 12.8 | 28.5 | 0.5 | 0.6 | 3.0 |
| 87345 | 3.1 | 51.1 | 37.6 | 438 | 50 | 3.2 | 15.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 518 | 146 | 331 | 39.1 | 151 | 25.0 | 20.1 | 2.3 | 11.1 | 20.4 | 0.4 | 0.5 | 2.5 |
| 87346 | < 0.1 | 68.6 | 17.8 | 329 | 72 | 18.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 749 | 78.7 | 152 | 18.7 | 67.3 | 10.2 | 7.5 | 0.9 | 4.4 | 24.1 | 0.4 | 0.2 | 1.3 |
| 87347 | 8.1 | 73.9 | 13.8 | 313 | 147 | 9.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 679 | 42.7 | 91.5 | 10.2 | 36.8 | 6.1 | 4.6 | 0.6 | 3.0 | 10.2 | 0.5 | 0.2 | 1.2 |
| 87348 | 2.8 | 73.4 | 10.9 | 271 | 175 | 7.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 702 | 41.6 | 81.7 | 8.9 | 32.7 | 5.2 | 4.1 | 0.5 | 2.6 | 7.9 | 0.6 | 0.2 | 1.0 |
| 87349 | 6.9 | 82.3 | 15.1 | 370 | 192 | 8.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 788 | 41.0 | 88.1 | 9.7 | 34.9 | 6.0 | 4.5 | 0.6 | 3.1 | 16.1 | 0.6 | 0.2 | 1.3 |
| 87350 | 3.7 | 58.9 | 78.5 | 552 | 34 | 83.8 | 7.8 | < 0.1 | 3 | < 0.1 | < 0.1 | 552 | 792 | 1790 | 218 | 825 | > 100 | 68.0 | 6.1 | 24.8 | 5.8 | 1.5 | 0.8 | 4.3 |
| 87351 | 1.2 | 38.3 | 82.4 | 829 | 6 | 7.8 | 16.4 | 0.1 | < 1 | < 0.1 | 0.3 | 499 | 615 | 1320 | 148 | 538 | 79.0 | 60.2 | 6.3 | 28.4 | 20.9 | 1.0 | 1.0 | 4.8 |
| 87352 | 4.4 | 67.3 | 44.5 | 475 | 139 | 182 | 5.8 | < 0.1 | < 1 | < 0.1 | 0.2 | 548 | 275 | 542 | 62.5 | 226 | 34.9 | 23.9 | 2.6 | 12.1 | 32.9 | 0.6 | 0.5 | 2.7 |
| 87353 | 1.7 | 82.9 | 53.8 | 500 | 9 | 9.4 | 5.2 | 0.1 | < 1 | < 0.1 | 0.3 | 793 | 365 | 756 | 87.1 | 314 | 44.8 | 30.6 | 3.2 | 15.0 | 64.5 | 0.7 | 0.6 | 3.0 |
| 87354 | 4.3 | 54.7 | 62.7 | 568 | 9 | 5.8 | 7.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 683 | 331 | 686 | 81.3 | 309 | 49.6 | 37.6 | 4.2 | 19.5 | 36.9 | 0.6 | 0.7 | 3.5 |
| 87355 | 2.6 | 90.1 | 21.3 | 305 | 111 | 81.5 | 15.9 | < 0.1 | 2 | 0.2 | 0.1 | 614 | 106 | 217 | 25.4 | 95.8 | 15.3 | 11.1 | 1.2 | 5.9 | 12.9 | 0.4 | 0.3 | 1.7 |
| 87356 | 7.8 | 79.0 | 34.4 | 310 | 80 | 124 | 10.2 | < 0.1 | 2 | 0.2 | < 0.1 | 687 | 281 | 572 | 61.5 | 226 | 35.1 | 24.8 | 2.4 | 10.5 | 23.4 | 0.5 | 0.4 | 2.4 |
| 87357 | 5.5 | 71.4 | 112 | 382 | 128 | 212 | 7.4 | 0.5 | 12 | 0.3 | 0.3 | 790 | 1790 | 3440 | 360 | 1200 | > 100 | 153 | 14.4 | 48.6 | 19.6 | 2.2 | 0.9 | 4.2 |
| 87358 | 8.3 | 89.3 | 33.0 | 367 | 187 | 105 | 3.0 | < 0.1 | 2 | 0.1 | 0.2 | 763 | 174 | 339 | 40.9 | 146 | 22.4 | 14.9 | 1.6 | 8.0 | 26.0 | 0.6 | 0.4 | 2.1 |
| 87359 | 6.4 | 74.4 | 59.7 | 271 | 131 | 217 | 4.3 | 0.1 | 4 | 0.2 | 0.1 | 648 | 508 | 987 | 114 | 415 | 63.8 | 43.3 | 4.3 | 18.5 | 20.7 | 0.8 | 0.6 | 3.4 |
| 87360 | 2.3 | 85.2 | 49.4 | 338 | 155 | 133 | 0.8 | < 0.1 | 2 | 0.2 | < 0.1 | 788 | 316 | 606 | 69.4 | 239 | 36.8 | 26.8 | 2.9 | 13.1 | 36.2 | 0.7 | 0.5 | 2.7 |
| 87361 | 2.2 | 63.9 | 57.2 | 327 | 124 | 131 | 2.8 | 0.1 | 1 | 0.1 | 0.2 | 732 | 834 | 1400 | 143 | 479 | 60.8 | 41.8 | 3.9 | 17.3 | 19.5 | 1.1 | 0.7 | 3.3 |
| 87362 | 6.1 | 83.9 | 55.0 | 321 | 140 | 164 | 2.0 | 0.1 | 1 | 0.1 | 0.1 | 704 | 526 | 991 | 111 | 407 | 55.4 | 36.6 | 3.6 | 15.7 | 22.2 | 0.9 | 0.6 | 3.4 |
| 87363 | 2.7 | 85.7 | 72.2 | 525 | 7 | 7.7 | 5.6 | 0.1 | < 1 | < 0.1 | 0.3 | 687 | 451 | 917 | 106 | 382 | 54.6 | 35.1 | 3.7 | 18.2 | 30.5 | 0.7 | 0.9 | 4.8 |
| 87364 | 5.6 | 93.0 | 68.1 | 537 | 71 | 161 | 5.1 | 0.2 | 2 | < 0.1 | 0.2 | 775 | 523 | 1040 | 117 | 412 | 56.6 | 35.3 | 3.7 | 17.8 | 30.0 | 0.8 | 0.8 | 4.0 |
| 87365 | < 0.1 | 73.0 | 49.1 | 531 | 65 | 111 | 7.3 | < 0.1 | 1 | 0.2 | 0.1 | 751 | 393 | 750 | 80.7 | 274 | 38.7 | 26.1 | 2.8 | 13.2 | 31.0 | 0.6 | 0.6 | 3.0 |
| 87366 | 1.5 | 82.4 | 67.2 | 513 | 33 | 34.0 | 4.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 745 | 514 | 1020 | 115 | 403 | 57.9 | 38.8 | 4.2 | 19.3 | 26.6 | 0.8 | 0.8 | 4.2 |
| 87367 | < 0.1 | 74.6 | 75.4 | 437 | 41 | 17.6 | 13.5 | 0.1 | < 1 | < 0.1 | 0.2 | 677 | 533 | 1100 | 125 | 461 | 67.8 | 46.6 | 4.7 | 21.7 | 23.7 | 0.8 | 0.9 | 4.9 |
| 87368 | < 0.1 | 68.5 | 64.5 | 412 | 76 | 16.4 | 2.4 | 0.1 | < 1 | < 0.1 | 0.2 | 714 | 321 | 613 | 82.2 | 300 | 43.2 | 29.0 | 3.4 | 16.9 | 24.6 | 0.6 | 0.8 | 4.1 |
| 87369 | 3.7 | 55.8 | 92.9 | 410 | 135 | 292 | 4.1 | 0.2 | 4 | 0.2 | 0.2 | 752 | 634 | 1410 | 167 | 630 | 86.0 | 51.9 | 5.2 | 25.3 | 20.4 | 1.0 | 1.3 | 7.1 |
| 87370 | < 0.1 | 58.8 | 36.2 | 285 | 113 | 56.2 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 697 | 249 | 505 | 61.1 | 226 | 33.5 | 22.4 | 2.3 | 10.6 | 23.1 | 0.6 | 0.4 | 2.4 |
| 87371 | < 0.1 | 89.4 | 45.5 | 379 | 148 | 122 | 1.6 | < 0.1 | 2 | 0.1 | < 0.1 | 760 | 351 | 678 | 79.1 | 274 | 36.7 | 21.6 | 2.3 | 11.4 | 26.2 | 0.8 | 0.5 | 2.8 |
| 87372 | < 0.1 | 79.9 | 62.2 | 403 | 74 | 12.7 | 2.3 | 0.1 | < 1 | < 0.1 | 0.2 | 734 | 510 | 931 | 106 | 365 | 51.2 | 35.2 | 3.8 | 17.8 | 17.1 | 0.7 | 0.7 | 3.7 |
| 87373 | < 0.1 | 88.8 | 48.6 | 359 | 12 | 3.7 | 3.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 713 | 309 | 622 | 71.8 | 261 | 38.2 | 26.3 | 2.8 | 13.0 | 28.5 | 0.5 | 0.6 | 3.3 |
| 87374 | 4.6 | 86.4 | 26.2 | 327 | 149 | 6.2 | 0.4 | < 0.1 | 1 | < 0.1 | 0.1 | 776 | 124 | 236 | 28.6 | 104 | 15.8 | 10.6 | 1.2 | 6.2 | 27.4 | 0.6 | 0.3 | 1.9 |
| 87375 | < 0.1 | 77.7 | 27.7 | 362 | 49 | 50.3 | 1.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 722 | 167 | 322 | 36.7 | 126 | 18.2 | 12.1 | 1.4 | 7.2 | 17.6 | 0.4 | 0.3 | 1.8 |
| 87376 | < 0.1 | 87.3 | 48.8 | 345 | 153 | 136 | 5.2 | < 0.1 | 2 | 0.2 | 0.1 | 772 | 278 | 499 | 60.2 | 213 | 33.1 | 25.2 | 2.9 | 13.7 | 38.5 | 0.6 | 0.5 | 2.7 |
| 87377 | < 0.1 | 93.9 | 47.5 | 301 | 127 | 65.4 | 3.5 | < 0.1 | 2 | 0.2 | < 0.1 | 799 | 353 | 628 | 76.3 | 269 | 41.8 | 29.8 | 3.1 | 13.7 | 32.9 | 0.8 | 0.5 | 2.6 |

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| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 87378 | 3.6 | 81.0 | 53.5 | 317 | 180 | 122 | 3.1 | 0.1 | 3 | 0.2 | 0.2 | 748 | 432 | 799 | 99.1 | 355 | 58.2 | 39.1 | 3.9 | 16.5 | 18.7 | 1.0 | 0.6 | 2.8 |
| 87379 | < 0.1 | 72.7 | 26.2 | 305 | 123 | 28.4 | 4.1 | < 0.1 | 2 | < 0.1 | 0.1 | 652 | 175 | 358 | 38.8 | 137 | 21.0 | 15.2 | 1.7 | 7.8 | 15.9 | 0.5 | 0.3 | 1.6 |
| 87380 | 5.4 | 63.2 | 26.0 | 318 | 198 | 130 | 9.5 | < 0.1 | 2 | 0.1 | < 0.1 | 642 | 201 | 482 | 50.5 | 182 | 26.2 | 15.5 | 1.5 | 7.1 | 9.7 | 0.4 | 0.3 | 1.8 |
| 87381 | 0.7 | 68.5 | 21.8 | 303 | 127 | 107 | 25.1 | < 0.1 | 2 | 0.1 | < 0.1 | 646 | 114 | 244 | 26.7 | 98.8 | 16.5 | 11.5 | 1.2 | 6.2 | 11.6 | 0.3 | 0.3 | 1.6 |
| 87382 | 1.6 | 81.3 | 13.2 | 333 | 75 | 25.8 | 1.6 | < 0.1 | 1 | < 0.1 | 0.1 | 737 | 46.0 | 96.8 | 11.0 | 38.8 | 6.3 | 4.3 | 0.6 | 3.0 | 10.4 | 0.5 | 0.2 | 1.0 |
| 87383 | < 0.1 | 83.1 | 13.6 | 344 | 193 | 13.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 778 | 44.7 | 91.8 | 10.1 | 35.6 | 5.8 | 4.4 | 0.6 | 3.0 | 13.1 | 0.6 | 0.2 | 1.1 |
| 87384 | 1.0 | 58.6 | 12.4 | 316 | 114 | 10.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 668 | 46.6 | 95.9 | 10.2 | 37.0 | 6.6 | 5.1 | 0.6 | 3.1 | 5.9 | 0.5 | 0.2 | 0.9 |
| 87385 | 5.4 | 77.9 | 27.1 | 353 | 113 | 115 | 4.0 | < 0.1 | 1 | 0.1 | 0.2 | 716 | 158 | 315 | 36.3 | 132 | 20.7 | 14.1 | 1.5 | 7.3 | 22.8 | 0.4 | 0.4 | 2.0 |
| 87386 | 3.6 | 77.0 | 46.9 | 368 | 86 | 110 | 2.3 | < 0.1 | 2 | 0.2 | 0.1 | 660 | 231 | 493 | 56.8 | 208 | 32.1 | 20.9 | 2.4 | 12.2 | 31.7 | 0.5 | 0.6 | 2.9 |
| 87387 | < 0.1 | 80.9 | 13.6 | 333 | 163 | 36.1 | 4.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 681 | 82.1 | 136 | 14.7 | 49.5 | 7.6 | 5.4 | 0.6 | 3.3 | 1.3 | 0.4 | 0.2 | 1.0 |
| 87388 | < 0.1 | 84.7 | 8.4 | 352 | 181 | 5.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 766 | 34.0 | 64.4 | 7.3 | 25.6 | 4.1 | 2.9 | 0.3 | 1.9 | 0.3 | 0.5 | 0.1 | 0.7 |
| 87389 | 0.6 | 81.0 | 56.7 | 342 | 155 | 186 | 5.8 | 0.1 | 4 | 0.3 | 0.1 | 731 | 504 | 955 | 107 | 376 | 58.7 | 40.7 | 4.0 | 17.8 | 29.9 | 0.8 | 0.6 | 3.3 |
| 87390 | 1.1 | 32.2 | 16.6 | 321 | 195 | 46.4 | 6.3 | < 0.1 | 1 | < 0.1 | 0.2 | 656 | 60.3 | 127 | 15.1 | 55.6 | 9.7 | 6.9 | 0.8 | 4.3 | 7.1 | 0.3 | 0.2 | 1.2 |
| 87391 | 8.0 | 92.9 | 34.5 | 379 | 142 | 139 | 2.1 | < 0.1 | 2 | 0.1 | < 0.1 | 723 | 196 | 388 | 44.9 | 161 | 23.9 | 15.9 | 1.7 | 8.7 | 37.6 | 0.7 | 0.4 | 2.4 |
| 87392 | < 0.1 | 67.1 | 33.0 | 302 | 39 | 56.7 | 4.0 | < 0.1 | 2 | 0.1 | < 0.1 | 741 | 217 | 414 | 47.4 | 167 | 26.8 | 18.4 | 2.0 | 9.4 | 27.4 | 0.5 | 0.4 | 2.1 |
| 87393 | 4.3 | 79.3 | 105 | 566 | 8 | 17.7 | 6.3 | 0.2 | < 1 | < 0.1 | 0.1 | 677 | 686 | 1410 | 165 | 603 | 91.2 | 54.8 | 5.8 | 27.7 | 30.6 | 1.1 | 1.2 | 6.1 |
| 87394 | < 0.1 | 92.3 | 35.5 | 410 | 90 | 140 | 6.1 | < 0.1 | 2 | 0.2 | 0.2 | 759 | 234 | 460 | 51.2 | 178 | 26.0 | 17.7 | 2.0 | 9.7 | 28.7 | 0.4 | 0.5 | 2.3 |
| 87395 | 3.8 | 74.2 | 47.5 | 393 | 36 | 66.1 | 3.9 | < 0.1 | 2 | 0.2 | 0.2 | 692 | 458 | 868 | 95.7 | 334 | 46.7 | 30.1 | 2.9 | 13.2 | 59.0 | 0.7 | 0.6 | 2.9 |
| 87396 | 7.8 | 85.5 | 61.5 | 407 | 148 | 186 | 2.8 | 0.1 | 2 | 0.2 | 0.2 | 693 | 533 | 1020 | 120 | 442 | 61.7 | 36.5 | 3.4 | 16.2 | 31.3 | 0.7 | 0.7 | 3.9 |
| 87397 | 8.5 | 73.9 | 86.1 | 413 | 145 | 83.2 | 4.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 688 | 449 | 891 | 127 | 484 | 76.1 | 43.0 | 4.5 | 21.8 | 21.3 | 0.9 | 1.0 | 5.5 |
| 87398 | 5.2 | 47.1 | 38.7 | 351 | 144 | 64.5 | 2.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 772 | 163 | 342 | 45.8 | 169 | 25.7 | 15.3 | 1.8 | 9.8 | 30.4 | 0.9 | 0.5 | 3.0 |
| 87399 | 2.6 | 60.0 | 62.9 | 557 | 18 | 9.1 | 14.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 567 | 498 | 1020 | 113 | 401 | 55.1 | 30.7 | 3.2 | 16.1 | 21.0 | 0.8 | 0.7 | 3.9 |
| 87400 | 0.6 | 65.9 | 81.2 | 550 | 17 | 7.8 | 13.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 626 | 586 | 1280 | 152 | 572 | 80.3 | 44.0 | 4.4 | 21.7 | 21.3 | 1.0 | 0.9 | 4.8 |
| 43176 | 5.6 | 61.6 | 76.6 | 488 | 43 | 27.3 | 9.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 589 | 503 | 1040 | 126 | 469 | 68.2 | 40.3 | 4.1 | 20.6 | 18.4 | 0.8 | 1.0 | 5.0 |
| 43177 | < 0.1 | 62.6 | 53.9 | 446 | 10 | 8.0 | 3.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 615 | 582 | 1070 | 120 | 417 | 57.2 | 35.6 | 3.5 | 15.9 | 12.4 | 0.7 | 0.6 | 3.2 |
| 43178 | < 0.1 | 91.4 | 62.5 | 590 | 34 | 12.5 | 3.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 711 | 502 | 979 | 109 | 368 | 50.5 | 29.9 | 3.2 | 15.6 | 35.7 | 0.6 | 0.7 | 3.7 |
| 43179 | 1.3 | 34.0 | 121 | 522 | 21 | 69.1 | 13.2 | 0.3 | 1 | < 0.1 | < 0.1 | 542 | 1250 | 2400 | 254 | 902 | > 100 | 83.7 | 8.1 | 36.4 | 8.8 | 1.5 | 1.4 | 7.5 |
| 43180 | 6.1 | 82.1 | 42.7 | 482 | 119 | 173 | 2.5 | < 0.1 | 2 | < 0.1 | 0.1 | 700 | 263 | 540 | 63.1 | 233 | 36.0 | 22.9 | 2.4 | 11.4 | 17.4 | 0.5 | 0.5 | 2.6 |
| 43181 | 4.4 | 86.3 | 35.1 | 359 | 186 | 169 | 2.8 | < 0.1 | 2 | 0.2 | 0.2 | 690 | 244 | 532 | 57.6 | 205 | 29.6 | 17.4 | 1.8 | 9.2 | 15.9 | 0.5 | 0.4 | 2.3 |
| 43182 | 2.1 | 68.5 | 26.7 | 337 | 172 | 56.0 | 3.9 | < 0.1 | 2 | 0.1 | < 0.1 | 619 | 130 | 275 | 29.6 | 105 | 16.5 | 11.2 | 1.3 | 7.1 | 14.9 | 0.5 | 0.3 | 1.8 |
| 43183 | < 0.1 | 59.7 | 77.1 | 325 | 141 | 98.6 | 4.1 | 0.1 | 2 | 0.2 | < 0.1 | 747 | 558 | 997 | 118 | 420 | 66.1 | 45.1 | 4.6 | 21.0 | 43.8 | 0.9 | 0.8 | 4.2 |
| 43184 | 3.5 | 75.9 | 34.3 | 323 | 152 | 49.4 | 13.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 628 | 429 | 727 | 75.4 | 261 | 39.6 | 24.2 | 2.3 | 10.5 | 15.3 | 0.7 | 0.4 | 2.2 |
| 43185 | 5.4 | 69.6 | 68.8 | 387 | 83 | 17.4 | 12.4 | 0.2 | < 1 | < 0.1 | 0.1 | 619 | 832 | 1500 | 180 | 643 | > 100 | 61.9 | 6.1 | 23.7 | 25.7 | 1.2 | 0.6 | 3.0 |
| 43186 | 9.9 | 60.9 | 143 | 880 | 9 | 7.0 | 6.7 | 0.2 | < 1 | < 0.1 | 0.2 | 827 | 706 | 1610 | 183 | 682 | > 100 | 67.9 | 8.2 | 44.2 | 14.5 | 1.2 | 1.9 | 9.4 |
| 43187 | 3.4 | 83.0 | 10.3 | 270 | 141 | 5.5 | 3.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 707 | 50.8 | 100 | 11.2 | 40.5 | 6.4 | 4.1 | 0.4 | 2.4 | 7.5 | 0.4 | 0.2 | 0.9 |
| 43188 | < 0.1 | 77.5 | 26.8 | 305 | 60 | 116 | 6.4 | < 0.1 | 2 | 0.1 | < 0.1 | 670 | 204 | 433 | 47.9 | 174 | 25.7 | 16.1 | 1.7 | 8.1 | 9.2 | 0.4 | 0.3 | 1.7 |
| 43189 | 5.0 | 79.8 | 18.6 | 287 | 15 | 10.2 | 3.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 651 | 199 | 414 | 47.2 | 167 | 23.1 | 12.1 | 1.2 | 5.3 | 10.7 | 0.6 | 0.2 | 1.4 |
| 43190 | 7.3 | 47.1 | 92.0 | > 1000 | 9 | 15.9 | 12.9 | 0.2 | < 1 | < 0.1 | 0.2 | 933 | 808 | 1850 | 221 | 842 | > 100 | 74.1 | 6.9 | 29.8 | 11.3 | 1.3 | 1.1 | 5.8 |
| 43191 | < 0.1 | 60.2 | 155 | 426 | 123 | 170 | 10.8 | 0.3 | 6 | 0.1 | 0.3 | 726 | 1770 | 4540 | 478 | 1590 | > 100 | 105 | 10.3 | 46.4 | 15.6 | 2.4 | 2.0 | 10.6 |
| 43192 | 3.3 | 72.6 | 20.6 | 311 | 164 | 75.2 | 5.4 | < 0.1 | 1 | < 0.1 | 0.1 | 685 | 97.3 | 206 | 23.5 | 88.0 | 15.5 | 10.3 | 1.2 | 5.6 | 13.2 | 0.4 | 0.3 | 1.4 |
| 43193 | 3.6 | 90.9 | 17.0 | 272 | 189 | 65.3 | 22.1 | < 0.1 | 2 | 0.1 | < 0.1 | 727 | 362 | 501 | 42.3 | 123 | 17.1 | 10.4 | 1.0 | 4.8 | 7.5 | 0.9 | 0.2 | 1.1 |
| 43194 | < 0.1 | 55.6 | 30.7 | 236 | 149 | 307 | 18.7 | 0.1 | 4 | 0.2 | 0.1 | 627 | 321 | 688 | 74.8 | 262 | 35.9 | 21.1 | 2.1 | 10.0 | 15.1 | 0.7 | 0.4 | 1.9 |
| 43195 | 1.4 | 68.7 | 56.7 | 366 | 32 | 26.8 | 3.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 695 | 404 | 765 | 88.1 | 313 | 48.1 | 32.3 | 3.4 | 16.4 | 26.7 | 0.9 | 0.6 | 3.3 |
| 43196 | 8.7 | 61.8 | 108 | 574 | 76 | 141 | 22.2 | 0.3 | 4 | 0.2 | 0.2 | 671 | 1470 | 2730 | 292 | 1020 | > 100 | 86.6 | 7.8 | 32.6 | 27.5 | 1.7 | 1.1 | 5.4 |
| 43197 | 5.8 | 55.9 | 56.4 | 347 | 164 | 83.3 | 12.9 | 0.2 | 4 | 0.3 | < 0.1 | 575 | 421 | 872 | 95.7 | 345 | 55.4 | 34.6 | 3.5 | 16.3 | 25.4 | 0.9 | 0.6 | 3.1 |
| 43198 | 4.8 | 81.2 | 58.6 | 408 | 161 | 185 | 5.4 | 0.1 | 4 | 0.3 | 0.2 | 740 | 432 | 866 | 100 | 369 | 58.4 | 35.0 | 3.6 | 16.4 | 53.4 | 0.8 | 0.6 | 3.5 |
| 43199 | 1.8 | 40.5 | 165 | 661 | 7 | 15.1 | 17.5 | 0.3 | < 1 | < 0.1 | < 0.1 | 712 | 3680 | 6090 | 586 | 1730 | > 100 | 135 | 11.6 | 48.8 | 15.0 | 2.7 | 1.5 | 7.3 |
| 43200 | 6.8 | 73.5 | 38.1 | 357 | 184 | 229 | 5.5 | 0.1 | 3 | 0.1 | < 0.1 | 620 | 336 | 704 | 75.2 | 264 | 39.5 | 23.5 | 2.5 | 11.6 | 14.0 | 0.5 | 0.4 | 2.2 |
| 46501 | 3.8 | 64.8 | 57.2 | 407 | 68 | 45.8 | 5.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 612 | 444 | 893 | 100 | 363 | 54.3 | 35.7 | 3.6 | 16.4 | 11.4 | 0.7 | 0.7 | 3.4 |
| 46502 | < 0.1 | 77.9 | 29.6 | 312 | 75 | 113 | 4.2 | < 0.1 | 2 | < 0.1 | < 0.1 | 637 | 273 | 542 | 59.5 | 203 | 28.3 | 17.6 | 1.9 | 8.9 | 17.4 | 0.4 | 0.4 | 1.8 |
| 46503 | 7.6 | 62.6 | 106 | 537 | 54 | 24.8 | 11.3 | 0.2 | < 1 | < 0.1 | < 0.1 | 673 | 982 | 1970 | 224 | 815 | > 100 | 68.3 | 6.7 | 30.5 | 19.4 | 1.5 | 1.2 | 6.1 |
| 46504 | < 0.1 | 68.9 | 67.8 | 473 | 12 | 25.2 | 3.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 674 | 696 | 1520 | 168 | 586 | 79.1 | 42.3 | 4.2 | 19.4 | 14.7 | 1.1 | 0.8 | 3.7 |

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| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 46505 | < 0.1 | 72.2 | 54.4 | 428 | 15 | 6.4 | 5.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 657 | 413 | 794 | 89.2 | 312 | 44.8 | 29.6 | 3.2 | 15.7 | 26.1 | 0.8 | 0.6 | 3.3 |
| 46506 | 3.1 | 53.8 | 52.0 | 481 | 3 | 2.5 | 44.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 657 | 388 | 716 | 79.2 | 266 | 35.8 | 22.5 | 2.5 | 12.6 | 40.5 | 0.5 | 0.6 | 3.2 |
| 46507 | 0.2 | 62.0 | 104 | 402 | 54 | 154 | 12.1 | 0.2 | 3 | < 0.1 | 0.2 | 603 | 1240 | 2440 | 257 | 882 | > 100 | 71.9 | 7.0 | 31.4 | 10.1 | 1.4 | 1.1 | 5.7 |
| 46508 | 0.1 | 53.4 | 71.4 | 532 | 3 | 2.6 | 11.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 633 | 528 | 1040 | 117 | 414 | 59.6 | 39.3 | 4.1 | 19.9 | 25.7 | 0.7 | 0.8 | 4.2 |
| 46509 | 5.7 | 60.7 | 54.2 | 471 | 10 | 7.6 | 6.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 536 | 437 | 825 | 96.9 | 332 | 45.8 | 26.0 | 2.8 | 14.1 | 28.6 | 0.6 | 0.6 | 3.2 |
| 46510 | 8.2 | 67.1 | 84.6 | 406 | 102 | 134 | 14.6 | 0.1 | 2 | 0.2 | 0.1 | 655 | 517 | 1050 | 128 | 477 | 69.6 | 40.6 | 4.5 | 22.3 | 17.7 | 0.8 | 1.0 | 5.2 |
| 46511 | 2.0 | 62.3 | 99.3 | 461 | 110 | 138 | 14.9 | 0.1 | < 1 | < 0.1 | 0.1 | 699 | 692 | 1300 | 147 | 534 | 79.7 | 51.0 | 5.5 | 27.5 | 28.2 | 0.9 | 1.1 | 5.8 |
| 46512 | 5.7 | 14.4 | 69.4 | 560 | 114 | > 500 | 22.1 | 0.2 | 22 | < 0.1 | 0.5 | 424 | 1490 | 3270 | 373 | 1310 | > 100 | 75.9 | 6.0 | 24.8 | 26.1 | 2.1 | 0.8 | 4.3 |
| 46513 | 6.4 | 59.1 | 50.2 | 477 | 26 | 17.4 | 7.0 | 0.1 | < 1 | < 0.1 | 0.1 | 611 | 344 | 706 | 82.1 | 297 | 44.3 | 26.8 | 2.8 | 13.6 | 10.9 | 0.6 | 0.6 | 3.2 |
| 46514 | 5.6 | 5.9 | 12.5 | 95.0 | 8 | 3.5 | 1.4 | < 0.1 | < 1 | 0.6 | < 0.1 | 183 | 63.0 | 44.0 | 13.1 | 46.0 | 7.3 | 5.5 | 0.6 | 2.6 | 13.1 | 0.1 | < 0.1 | 0.5 |
| 46515 | 6.8 | 59.5 | 50.8 | 350 | 134 | 145 | 9.5 | 0.1 | 4 | 0.1 | 0.2 | 667 | 384 | 801 | 93.8 | 335 | 51.8 | 30.3 | 3.2 | 14.5 | 20.0 | 0.6 | 0.6 | 3.2 |
| 46516 | 8.9 | 45.8 | 55.3 | 439 | 81 | 83.5 | 10.7 | 0.2 | < 1 | < 0.1 | < 0.1 | 590 | 331 | 708 | 84.0 | 309 | 48.0 | 28.0 | 3.0 | 14.9 | 19.7 | 0.5 | 0.7 | 3.5 |
| 46517 | 3.6 | 78.6 | 69.7 | 534 | 84 | 6.4 | 5.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 742 | 511 | 972 | 112 | 391 | 56.6 | 36.4 | 3.9 | 19.2 | 32.1 | 0.7 | 0.7 | 3.5 |
| 46518 | < 0.1 | 70.6 | 26.7 | 364 | 102 | 114 | 5.7 | < 0.1 | 2 | < 0.1 | < 0.1 | 680 | 165 | 333 | 38.2 | 137 | 21.1 | 13.6 | 1.5 | 7.2 | 10.9 | 0.3 | 0.3 | 1.7 |
| 46519 | 6.5 | 67.8 | 18.8 | 282 | 114 | 124 | 7.9 | < 0.1 | 2 | 0.1 | < 0.1 | 604 | 135 | 267 | 30.9 | 110 | 16.8 | 10.0 | 1.1 | 5.2 | 5.5 | 0.4 | 0.3 | 1.4 |
| 46520 | < 0.1 | 94.6 | 22.8 | 310 | 86 | 59.6 | 4.5 | < 0.1 | 2 | < 0.1 | < 0.1 | 818 | 189 | 424 | 51.5 | 190 | 27.5 | 15.0 | 1.5 | 6.9 | 14.9 | 0.6 | 0.3 | 1.5 |
| 46521 | 3.7 | 88.0 | 16.5 | 339 | 182 | 52.6 | 1.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 730 | 57.7 | 130 | 13.6 | 48.3 | 8.1 | 5.3 | 0.7 | 3.7 | 18.6 | 0.4 | 0.2 | 1.3 |
| 46522 | 5.2 | 29.8 | 10.6 | 267 | 163 | 47.5 | 1.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 608 | 30.1 | 71.7 | 8.6 | 33.0 | 6.2 | 4.1 | 0.5 | 2.7 | 10.6 | 0.2 | 0.2 | 0.9 |
| 46523 | 7.2 | 78.6 | 16.2 | 316 | 100 | 55.3 | 2.2 | < 0.1 | 1 | < 0.1 | 0.1 | 678 | 75.2 | 169 | 19.1 | 69.7 | 11.4 | 7.3 | 0.8 | 4.4 | 7.3 | 0.3 | 0.2 | 1.1 |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 87326 | 0.1 | 0.2 | 0.2 | < 0.001 | 0.43 | 18.3 | 10 | 12.0 | 1.6 | 0.277 | 0.064 | 0.01 | < 5 |
| 87327 | 0.1 | 0.3 | 0.3 | < 0.001 | 0.35 | 15.8 | 11 | 14.8 | 1.1 | 0.261 | 0.101 | < 0.01 | 7 |
| 87328 | 0.1 | 0.5 | 0.4 | < 0.001 | 0.33 | 14.5 | 10 | 10.3 | 1.2 | 0.233 | 0.086 | < 0.01 | < 5 |
| 87329 | 0.1 | 0.1 | 0.3 | < 0.001 | 0.34 | 17.8 | 10 | 14.5 | 1.3 | 0.273 | 0.058 | 0.01 | < 5 |
| 87330 | 0.5 | 13.2 | 1.2 | < 0.001 | 0.45 | 38.2 | 17 | 58.8 | 20.2 | 0.367 | 0.293 | 0.02 | < 5 |
| 87331 | 0.6 | < 0.1 | 0.6 | 0.001 | 0.62 | 38.1 | 24 | 74.0 | 5.9 | 0.0966 | 0.394 | < 0.01 | 9 |
| 87332 | 0.4 | 1.9 | 1.8 | < 0.001 | 0.53 | 64.4 | 30 | 156 | 3.5 | 0.454 | 0.245 | 0.01 | 5 |
| 87333 | 0.4 | 6.4 | 1.9 | 0.002 | 0.53 | 73.2 | 26 | 89.5 | 7.7 | 0.427 | 0.288 | 0.03 | < 5 |
| 87334 | 0.4 | < 0.1 | 0.4 | 0.001 | 0.48 | 35.8 | 19 | 73.6 | 3.8 | 0.207 | 0.337 | < 0.01 | < 5 |
| 87335 | 0.3 | 1.3 | 0.6 | < 0.001 | 0.50 | 26.8 | 19 | 37.0 | 3.7 | 0.385 | 0.199 | < 0.01 | < 5 |
| 87336 | 0.3 | 2.4 | 1.1 | < 0.001 | 0.57 | 21.1 | 16 | 31.6 | 3.4 | 0.444 | 0.250 | < 0.01 | < 5 |
| 87337 | 0.6 | 0.9 | 0.6 | 0.001 | 0.43 | 30.5 | 24 | 75.3 | 7.8 | 0.219 | 0.478 | 0.01 | < 5 |
| 87338 | 0.4 | 1.8 | 1.0 | 0.002 | 0.38 | 24.0 | 18 | 49.5 | 2.5 | 0.344 | 0.290 | 0.02 | < 5 |
| 87339 | 0.5 | 2.1 | 1.2 | 0.002 | 0.43 | 55.7 | 24 | 68.4 | 5.3 | 0.415 | 0.487 | 0.04 | 6 |
| 87340 | 0.6 | 2.1 | 0.8 | 0.001 | 0.58 | 36.0 | 20 | 63.1 | 6.0 | 0.336 | 0.537 | 0.01 | < 5 |
| 87341 | 0.5 | 0.2 | 1.0 | 0.004 | 0.48 | 41.3 | 26 | 101 | 9.8 | 0.296 | 0.637 | 0.02 | < 5 |
| 87342 | 0.5 | 1.3 | 0.4 | 0.002 | 0.48 | 44.4 | 25 | 93.0 | 6.1 | 0.161 | 0.376 | < 0.01 | < 5 |
| 87343 | 0.3 | 3.5 | 1.3 | 0.003 | 0.34 | 47.2 | 24 | 85.3 | 3.2 | 0.474 | 0.270 | 0.01 | < 5 |
| 87344 | 0.4 | < 0.1 | 0.2 | < 0.001 | 0.43 | 41.7 | 18 | 63.2 | 3.1 | 0.270 | 0.353 | < 0.01 | < 5 |
| 87345 | 0.3 | < 0.1 | 0.4 | < 0.001 | 0.36 | 28.0 | 18 | 34.0 | 6.1 | 0.312 | 0.361 | < 0.01 | < 5 |
| 87346 | 0.2 | 0.3 | 0.2 | 0.001 | 0.39 | 19.3 | 14 | 17.5 | 1.6 | 0.327 | 0.124 | < 0.01 | < 5 |
| 87347 | 0.1 | 0.1 | < 0.1 | < 0.001 | 0.35 | 17.1 | 11 | 14.2 | 1.3 | 0.285 | 0.076 | 0.01 | < 5 |
| 87348 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 17.2 | 11 | 13.0 | 1.4 | 0.297 | 0.064 | < 0.01 | < 5 |
| 87349 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 18.8 | 11 | 15.3 | 1.3 | 0.247 | 0.098 | < 0.01 | < 5 |
| 87350 | 0.6 | < 0.1 | 1.6 | 0.012 | 0.33 | 30.3 | 15 | 35.0 | 2.5 | 0.125 | 0.547 | 0.03 | 23 |
| 87351 | 0.6 | < 0.1 | < 0.1 | 0.005 | 0.34 | 37.8 | 24 | 65.6 | 20.3 | 0.0487 | 1.96 | 0.03 | < 5 |
| 87352 | 0.4 | 1.1 | 1.4 | < 0.001 | 0.44 | 39.4 | 20 | 55.9 | 2.6 | 0.357 | 0.263 | 0.02 | < 5 |
| 87353 | 0.4 | < 0.1 | 0.2 | < 0.001 | 0.59 | 38.7 | 22 | 53.9 | 3.7 | 0.0978 | 0.388 | < 0.01 | < 5 |
| 87354 | 0.5 | < 0.1 | 0.3 | < 0.001 | 0.72 | 35.3 | 23 | 57.2 | 3.0 | 0.159 | 0.707 | 0.02 | 8 |
| 87355 | 0.2 | 1.4 | 1.5 | < 0.001 | 0.56 | 26.5 | 18 | 32.7 | 3.1 | 0.400 | 0.210 | 0.02 | < 5 |
| 87356 | 0.3 | 1.5 | 1.6 | 0.002 | 0.54 | 44.2 | 19 | 59.4 | 2.7 | 0.425 | 0.303 | 0.02 | 7 |
| 87357 | 0.6 | 0.6 | 3.8 | 0.006 | 0.43 | 136 | 48 | > 200 | 2.1 | 0.340 | 0.297 | 0.02 | 8 |
| 87358 | 0.3 | 2.0 | 0.8 | < 0.001 | 0.46 | 25.0 | 17 | 51.7 | 3.0 | 0.414 | 0.245 | < 0.01 | < 5 |
| 87359 | 0.5 | 4.6 | 1.9 | < 0.001 | 0.47 | 41.1 | 28 | 125 | 4.2 | 0.461 | 0.291 | 0.01 | 5 |
| 87360 | 0.3 | 2.9 | 1.1 | < 0.001 | 0.44 | 35.5 | 21 | 80.4 | 2.6 | 0.428 | 0.290 | < 0.01 | < 5 |
| 87361 | 0.4 | 3.5 | 1.2 | 0.002 | 0.49 | 48.0 | 22 | 67.4 | 4.5 | 0.330 | 0.283 | 0.01 | < 5 |
| 87362 | 0.5 | 3.5 | 1.6 | 0.001 | 0.51 | 42.4 | 22 | 80.1 | 3.9 | 0.430 | 0.345 | 0.02 | < 5 |
| 87363 | 0.6 | < 0.1 | 0.2 | 0.002 | 0.64 | 35.7 | 20 | 66.0 | 7.8 | 0.148 | 0.666 | < 0.01 | < 5 |
| 87364 | 0.5 | 4.5 | 1.1 | < 0.001 | 0.62 | 40.8 | 24 | 77.9 | 7.5 | 0.343 | 0.549 | 0.02 | < 5 |
| 87365 | 0.4 | 1.7 | 1.4 | < 0.001 | 0.56 | 26.8 | 19 | 54.9 | 2.9 | 0.420 | 0.342 | 0.01 | 6 |
| 87366 | 0.6 | 1.2 | 0.9 | 0.001 | 0.55 | 31.8 | 23 | 73.4 | 3.8 | 0.267 | 0.504 | 0.02 | 6 |
| 87367 | 0.7 | 0.2 | 0.9 | 0.001 | 0.53 | 34.9 | 29 | 78.6 | 9.9 | 0.284 | 0.605 | 0.05 | 6 |
| 87368 | 0.5 | 0.3 | 1.3 | < 0.001 | 0.48 | 24.3 | 22 | 46.8 | 5.3 | 0.423 | 0.443 | 0.01 | < 5 |
| 87369 | 1.0 | 7.3 | 1.8 | 0.003 | 0.53 | 34.4 | 34 | 75.8 | 7.7 | 0.379 | 0.374 | 0.04 | 7 |
| 87370 | 0.3 | 1.6 | 0.8 | 0.001 | 0.45 | 23.1 | 17 | 54.6 | 3.7 | 0.343 | 0.174 | < 0.01 | < 5 |
| 87371 | 0.4 | 2.6 | 1.4 | < 0.001 | 0.50 | 25.3 | 20 | 44.1 | 2.6 | 0.467 | 0.292 | < 0.01 | < 5 |
| 87372 | 0.5 | 0.2 | 0.9 | < 0.001 | 0.50 | 34.4 | 22 | 74.2 | 5.0 | 0.258 | 0.365 | < 0.01 | < 5 |
| 87373 | 0.4 | < 0.1 | 0.4 | < 0.001 | 0.57 | 30.5 | 20 | 48.5 | 4.9 | 0.230 | 0.361 | < 0.01 | < 5 |
| 87374 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.53 | 21.6 | 16 | 32.3 | 2.0 | 0.298 | 0.156 | < 0.01 | < 5 |
| 87375 | 0.2 | 1.1 | 0.6 | < 0.001 | 0.45 | 22.5 | 15 | 22.7 | 3.4 | 0.320 | 0.224 | < 0.01 | < 5 |
| 87376 | 0.3 | 3.8 | 2.0 | < 0.001 | 0.58 | 32.2 | 21 | 60.1 | 4.3 | 0.442 | 0.283 | 0.01 | < 5 |
| 87377 | 0.3 | 1.0 | 0.9 | < 0.001 | 0.57 | 39.6 | 25 | 75.0 | 2.6 | 0.381 | 0.222 | 0.01 | 5 |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 87378 | 0.4 | 2.0 | 1.5 | < 0.001 | 0.50 | 54.9 | 25 | 110 | 3.0 | 0.388 | 0.219 | 0.02 | 6 |
| 87379 | 0.2 | 0.4 | 0.2 | < 0.001 | 0.43 | 30.2 | 15 | 44.1 | 3.7 | 0.297 | 0.137 | 0.01 | < 5 |
| 87380 | 0.2 | 1.5 | 1.8 | < 0.001 | 0.55 | 27.3 | 14 | 42.4 | 2.9 | 0.436 | 0.168 | 0.01 | < 5 |
| 87381 | 0.2 | 1.1 | 1.3 | < 0.001 | 0.57 | 31.2 | 14 | 24.0 | 2.0 | 0.424 | 0.189 | 0.03 | < 5 |
| 87382 | 0.1 | 0.4 | 0.5 | < 0.001 | 0.52 | 18.7 | 11 | 12.3 | 1.6 | 0.332 | 0.085 | 0.02 | < 5 |
| 87383 | 0.1 | 0.2 | 0.3 | < 0.001 | 0.46 | 17.7 | 11 | 15.6 | 1.2 | 0.281 | 0.086 | < 0.01 | < 5 |
| 87384 | 0.1 | 0.3 | 0.2 | < 0.001 | 0.37 | 18.5 | 10 | 12.7 | 1.4 | 0.304 | 0.105 | < 0.01 | < 5 |
| 87385 | 0.2 | 1.2 | 1.3 | < 0.001 | 0.55 | 26.4 | 15 | 26.4 | 1.8 | 0.380 | 0.270 | 0.01 | < 5 |
| 87386 | 0.4 | 0.8 | 1.1 | 0.001 | 0.55 | 28.2 | 21 | 38.9 | 2.1 | 0.465 | 0.296 | 0.02 | < 5 |
| 87387 | 0.1 | 0.5 | 0.4 | < 0.001 | 0.39 | 17.0 | 10 | 14.9 | 1.3 | 0.251 | 0.094 | < 0.01 | < 5 |
| 87388 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 15.8 | 8 | 10.3 | 1.0 | 0.187 | 0.029 | < 0.01 | < 5 |
| 87389 | 0.4 | 4.1 | 2.3 | 0.003 | 0.57 | 51.4 | 25 | 109 | 4.1 | 0.443 | 0.318 | 0.02 | 6 |
| 87390 | 0.1 | 1.0 | 0.8 | < 0.001 | 0.38 | 21.5 | 9 | 24.5 | 1.5 | 0.286 | 0.107 | 0.01 | < 5 |
| 87391 | 0.3 | 3.0 | 1.2 | < 0.001 | 0.58 | 31.1 | 18 | 41.4 | 3.2 | 0.523 | 0.244 | 0.01 | < 5 |
| 87392 | 0.3 | 1.3 | 1.0 | < 0.001 | 0.51 | 31.2 | 18 | 32.5 | 4.3 | 0.439 | 0.211 | 0.01 | < 5 |
| 87393 | 0.8 | 0.3 | 0.6 | 0.007 | 0.63 | 60.0 | 25 | 127 | 11.4 | 0.151 | 0.645 | 0.01 | 6 |
| 87394 | 0.3 | 3.0 | 1.4 | < 0.001 | 0.54 | 24.9 | 18 | 41.5 | 3.1 | 0.451 | 0.250 | < 0.01 | < 5 |
| 87395 | 0.4 | 0.7 | 0.8 | 0.004 | 0.49 | 31.6 | 21 | 59.7 | 5.9 | 0.391 | 0.271 | 0.05 | < 5 |
| 87396 | 0.5 | 6.1 | 1.6 | 0.002 | 0.47 | 33.6 | 25 | 72.3 | 3.9 | 0.453 | 0.422 | 0.02 | < 5 |
| 87397 | 0.7 | 0.7 | 1.1 | 0.004 | 0.53 | 41.1 | 24 | 64.0 | 3.3 | 0.484 | 0.379 | 0.01 | < 5 |
| 87398 | 0.4 | 1.4 | 1.2 | 0.002 | 0.50 | 21.1 | 14 | 23.6 | 2.1 | 0.393 | 0.220 | < 0.01 | < 5 |
| 87399 | 0.5 | 0.1 | 0.4 | 0.002 | 0.40 | 34.4 | 20 | 44.1 | 11.6 | 0.100 | 0.361 | 0.03 | < 5 |
| 87400 | 0.6 | < 0.1 | 0.3 | 0.005 | 0.45 | 53.9 | 25 | 67.0 | 6.4 | 0.0994 | 0.377 | 0.02 | 82 |
| 43176 | 0.7 | 0.5 | 0.4 | 0.003 | 0.41 | 37.8 | 23 | 73.6 | 7.2 | 0.187 | 0.492 | 0.03 | < 5 |
| 43177 | 0.4 | < 0.1 | 0.5 | 0.004 | 0.36 | 29.7 | 19 | 45.3 | 4.4 | 0.204 | 0.395 | 0.01 | < 5 |
| 43178 | 0.5 | 0.2 | 0.4 | 0.004 | 0.49 | 36.2 | 20 | 68.1 | 6.9 | 0.271 | 0.447 | < 0.01 | < 5 |
| 43179 | 1.1 | 0.7 | 2.1 | 0.008 | 0.40 | 124 | 35 | 155 | 8.6 | 0.392 | 0.716 | 0.03 | < 5 |
| 43180 | 0.3 | 4.5 | 1.1 | 0.002 | 0.66 | 58.0 | 17 | 67.6 | 4.0 | 0.337 | 0.450 | 0.05 | < 5 |
| 43181 | 0.3 | 5.7 | 1.1 | 0.004 | 0.45 | 30.0 | 15 | 46.9 | 4.0 | 0.424 | 0.289 | 0.02 | < 5 |
| 43182 | 0.2 | 1.4 | 0.8 | 0.003 | 0.33 | 26.9 | 17 | 33.3 | 3.0 | 0.414 | 0.223 | 0.02 | < 5 |
| 43183 | 0.6 | 1.4 | 1.8 | 0.003 | 0.53 | 54.6 | 29 | 102 | 3.3 | 0.447 | 0.282 | 0.02 | < 5 |
| 43184 | 0.3 | 0.9 | 1.3 | 0.004 | 0.49 | 40.6 | 18 | 59.3 | 3.9 | 0.440 | 0.255 | 0.02 | < 5 |
| 43185 | 0.4 | < 0.1 | 1.5 | 0.002 | 0.46 | 62.4 | 29 | 193 | 5.5 | 0.361 | 0.207 | 0.02 | < 5 |
| 43186 | 1.1 | < 0.1 | 0.1 | 0.006 | 0.39 | 76.7 | 18 | > 200 | 29.7 | 0.0294 | 1.88 | 0.03 | < 5 |
| 43187 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.42 | 19.8 | 10 | 22.0 | 1.3 | 0.287 | 0.070 | 0.02 | < 5 |
| 43188 | 0.2 | 1.4 | 1.3 | 0.001 | 0.47 | 25.5 | 15 | 35.0 | 3.2 | 0.442 | 0.234 | 0.01 | < 5 |
| 43189 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.49 | 31.2 | 13 | 33.6 | 2.2 | 0.248 | 0.095 | 0.01 | < 5 |
| 43190 | 0.8 | < 0.1 | < 0.1 | 0.003 | 0.89 | 41.3 | 25 | 119 | 7.6 | 0.0546 | 1.30 | 0.03 | < 5 |
| 43191 | 1.3 | 1.5 | 1.1 | 0.013 | 0.46 | 157 | 36 | > 200 | 3.3 | 0.316 | 0.388 | 0.03 | < 5 |
| 43192 | 0.2 | 1.2 | 0.9 | < 0.001 | 0.40 | 24.8 | 13 | 30.7 | 1.6 | 0.345 | 0.147 | 0.01 | < 5 |
| 43193 | 0.1 | 0.3 | 0.4 | < 0.001 | 0.55 | 26.2 | 14 | 36.5 | 1.4 | 0.418 | 0.064 | 0.01 | < 5 |
| 43194 | 0.3 | 4.8 | 3.7 | 0.001 | 0.47 | 29.6 | 15 | 43.7 | 4.5 | 0.500 | 0.223 | 0.02 | < 5 |
| 43195 | 0.4 | 0.8 | 0.5 | 0.005 | 0.45 | 39.7 | 21 | 62.3 | 5.9 | 0.118 | 0.307 | < 0.01 | < 5 |
| 43196 | 0.7 | 1.8 | 2.3 | 0.006 | 0.53 | 77.0 | 40 | 163 | 6.7 | 0.363 | 0.589 | 0.05 | 8 |
| 43197 | 0.4 | 1.0 | 2.2 | 0.002 | 0.65 | 51.0 | 21 | 98.3 | 3.1 | 0.419 | 0.280 | 0.02 | < 5 |
| 43198 | 0.5 | 3.9 | 2.8 | 0.003 | 0.57 | 69.0 | 27 | 99.4 | 2.9 | 0.487 | 0.336 | 0.03 | < 5 |
| 43199 | 1.0 | < 0.1 | 0.9 | 0.016 | 0.27 | 73.2 | 46 | 189 | 15.9 | 0.147 | 0.900 | 0.07 | < 5 |
| 43200 | 0.3 | 5.9 | 1.5 | 0.002 | 0.44 | 39.6 | 16 | 83.5 | 4.8 | 0.446 | 0.391 | 0.02 | < 5 |
| 46501 | 0.5 | 1.4 | 0.9 | 0.002 | 0.36 | 53.0 | 18 | 72.2 | 6.4 | 0.293 | 0.492 | 0.02 | < 5 |
| 46502 | 0.2 | 2.5 | 0.8 | 0.001 | 0.36 | 32.4 | 14 | 46.0 | 5.3 | 0.412 | 0.232 | 0.04 | < 5 |
| 46503 | 0.8 | 0.3 | 0.5 | 0.005 | 0.41 | 69.4 | 27 | 131 | 7.8 | 0.0758 | 0.615 | 0.02 | < 5 |
| 46504 | 0.5 | 0.3 | < 0.1 | 0.004 | 0.45 | 38.6 | 20 | 60.4 | 5.9 | 0.0866 | 0.385 | < 0.01 | < 5 |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|------------------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 46505 | 0.4 | < 0.1 | 0.2 | 0.003 | 0.47 | 40.7 | 20 | 67.5 | 8.3 | 0.109 | 0.371 | 0.01 | < 5 |
| 46506 | 0.4 | < 0.1 | 0.1 | 0.004 | 0.38 | 33.7 | 21 | 37.5 | 15.9 | 0.152 | 0.405 | 0.04 | < 5 |
| 46507 | 0.7 | 2.8 | 0.7 | 0.008 | 0.47 | 45.7 | 28 | 94.2 | 8.3 | 0.284 | 0.569 | 0.03 | < 5 |
| 46508 | 0.6 | < 0.1 | < 0.1 | 0.006 | 0.40 | 41.3 | 20 | 60.3 | 12.5 | 0.0808 | 0.779 | 0.03 | < 5 |
| 46509 | 0.4 | 0.1 | 0.5 | 0.004 | 0.41 | 28.9 | 16 | 50.7 | 11.6 | 0.196 | 0.371 | 0.05 | < 5 |
| 46510 | 0.7 | 2.3 | 1.5 | 0.005 | 0.65 | 34.5 | 23 | 68.6 | 5.9 | 0.376 | 0.563 | 0.03 | < 5 |
| 46511 | 0.7 | 2.2 | 1.8 | 0.005 | 0.47 | 42.2 | 26 | 91.7 | 5.9 | 0.372 | 0.582 | 0.04 | < 5 |
| 46512 | 0.6 | 2.5 | 4.0 | 0.011 | 0.32 | 39.5 | 15 | 78.4 | 19.8 | 0.799 | 0.616 | 0.06 | < 5 |
| 46513 | 0.4 | 0.3 | 0.3 | 0.003 | 0.37 | 37.3 | 18 | 50.2 | 7.2 | 0.119 | 0.369 | < 0.01 | < 5 |
| 46514 | < 0.1 | < 0.1 | < 0.1 | 0.002 | 1.31 | 30.2 | 2 | 5.5 | 0.6 | 0.0302 | 0.273 | 0.06 | < 5 |
| 46515 | 0.4 | 2.7 | 2.2 | 0.002 | 0.58 | 137 | 23 | 74.8 | 6.6 | 0.481 | 0.292 | 0.04 | < 5 |
| 46516 | 0.4 | 0.6 | 1.8 | 0.003 | 0.58 | 53.3 | 23 | 80.7 | 6.6 | 0.477 | 0.297 | 0.03 | < 5 |
| 46517 | 0.5 | < 0.1 | 1.1 | 0.002 | 0.54 | 57.1 | 23 | 87.4 | 16.6 | 0.338 | 0.387 | < 0.01 | < 5 |
| 46518 | 0.2 | 2.7 | 1.0 | 0.002 | 0.38 | 25.9 | 14 | 29.4 | 4.2 | 0.415 | 0.264 | 0.02 | < 5 |
| 46519 | 0.2 | 4.0 | 1.4 | 0.001 | 0.49 | 28.1 | 12 | 26.0 | 5.2 | 0.404 | 0.179 | 0.02 | < 5 |
| 46520 | 0.2 | 1.2 | 0.7 | 0.004 | 0.43 | 21.2 | 16 | 34.9 | 1.9 | 0.427 | 0.155 | 0.02 | < 5 |
| 46521 | 0.1 | 0.6 | 0.4 | 0.002 | 0.43 | 19.9 | 11 | 20.5 | 1.2 | 0.316 | 0.129 | < 0.01 | < 5 |
| 46522 | 0.1 | 0.7 | 0.4 | < 0.001 | 0.36 | 22.1 | 8 | 10.6 | 0.8 | 0.277 | 0.108 | 0.01 | < 5 |
| 46523 | 0.1 | 0.5 | 0.4 | 0.002 | 0.38 | 26.9 | 11 | 15.0 | 1.2 | 0.301 | 0.162 | 0.01 | < 5 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|--------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 7.5 | 0.04 | 0.20 | 2.27 | 0.04 | 0.84 | 2.2 | 77 | 12.1 | 851 | 26.1 | 0.1 | 40.6 | | 1.0 | | 30.9 | 2.91 | 8.1 | 0.63 | 1580 | 16.6 | 766 | 8.5 |
| GXR-1 Cert | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 | 13.8 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 11.2 | 0.54 | 1.66 | 6.69 | 3.93 | 1.00 | 0.1 | 95 | 40.6 | 157 | 2.99 | 0.9 | 40.7 | | 2.1 | | 3.29 | 2.55 | 14.0 | 1.43 | 19.4 | 5.1 | 72.5 | 16.4 |
| GXR-4 Cert | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 | 20.0 |
| SDC-1 Meas | 38.2 | 1.62 | 0.97 | 7.94 | 2.79 | 1.08 | < 0.1 | 39 | 44.4 | 834 | 4.89 | | 36.9 | | 3.1 | | < 0.05 | | 18.4 | | 0.27 | | | 107 |
| SDC-1 Cert | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | | 38.0 | | 3.00 | | 0.0410 | | 17.9 | | 2.60 | | | 103 |
| SCO-1 Meas | 44.9 | 0.67 | 1.47 | 6.81 | 2.18 | 1.88 | 0.1 | 130 | 46.1 | 357 | 3.45 | | 27.9 | | 1.8 | | 0.12 | | 11.1 | | 0.38 | | | 102 |
| SCO-1 Cert | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | | 27.0 | | 1.84 | | 0.134 | | 10.5 | | 0.370 | | | 103 |
| GXR-6 Meas | 36.9 | 0.11 | 0.60 | > 10.0 | 1.68 | 0.22 | < 0.1 | 131 | 53.3 | 876 | 5.18 | 1.6 | 22.7 | | 1.1 | | 0.27 | 3.74 | 12.3 | 0.55 | 0.16 | 0.3 | 113 | 28.0 |
| GXR-6 Cert | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 | 35.0 |
| DNC-1a Meas | 4.7 | | | | | | | 154 | 194 | | | | 272 | | | | | | 56.7 | 0.59 | | | | 68.0 |
| DNC-1a Cert | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | | 70.0 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 2440 | | | | 0.88 | | 82.4 | | | | | 140 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 2247 | | | | 0.86 | | 75 | | | | | 133 |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 87335 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87335 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87338 Orig | 34.7 | 2.18 | 1.23 | 6.49 | 2.01 | 2.02 | 0.5 | 98 | 91.6 | 1880 | 5.26 | 1.1 | 47.4 | 4.3 | 3.4 | 1.9 | < 0.05 | 1.47 | 16.4 | 9.64 | 0.21 | 0.3 | 101 | 14.2 |
| 87338 Dup | 31.0 | 1.96 | 1.15 | 6.30 | 1.83 | 1.86 | 0.5 | 82 | 86.5 | 1830 | 5.05 | 3.0 | 43.8 | 4.1 | 3.2 | 1.8 | < 0.05 | 1.38 | 15.1 | 9.33 | 0.21 | 0.5 | 91.4 | 13.0 |
| 87345 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87345 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87352 Orig | 45.7 | 2.12 | 3.24 | 5.59 | 1.78 | 2.92 | 0.3 | 110 | 407 | 1700 | 6.16 | 3.1 | 289 | 4.1 | 10.5 | 1.8 | < 0.05 | 2.45 | 33.6 | 9.37 | 0.26 | 0.3 | 192 | 14.1 |
| 87352 Dup | 49.9 | 2.10 | 3.15 | 5.35 | 1.81 | 3.13 | 0.3 | 121 | 390 | 1670 | 6.17 | 1.6 | 303 | 4.3 | 11.3 | 2.0 | < 0.05 | 2.43 | 34.1 | 8.44 | 0.23 | 0.2 | 202 | 13.8 |
| 87355 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87355 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87370 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87370 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87373 Orig | 33.9 | 1.74 | 1.82 | 6.48 | 2.05 | 2.21 | 0.3 | 99 | 55.9 | 1840 | 5.95 | < 0.1 | 62.3 | 4.6 | 4.6 | 2.0 | 0.11 | 2.18 | 20.5 | 9.05 | 0.21 | 0.8 | 132 | 14.8 |
| 87373 Dup | 35.9 | 1.93 | 2.00 | 7.00 | 1.99 | 2.34 | 0.2 | 111 | 77.6 | 1920 | 6.22 | < 0.1 | 65.0 | 5.1 | 4.6 | 2.1 | 0.14 | 2.27 | 20.9 | 10.1 | 0.24 | 0.5 | 141 | 16.9 |
| 87380 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87380 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87387 Orig | 16.7 | 2.38 | 0.73 | 6.71 | 2.12 | 1.58 | 0.1 | 60 | 72.6 | 350 | 2.71 | 3.9 | 23.8 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.17 | 7.0 | 1.90 | 0.07 | 0.3 | 33.1 | 15.4 |
| 87387 Dup | 16.2 | 2.21 | 0.70 | 6.50 | 2.09 | 1.50 | 0.1 | 51 | 64.0 | 332 | 2.66 | 3.7 | 23.7 | 1.4 | 1.7 | 0.6 | < 0.05 | 1.17 | 7.0 | 1.71 | 0.07 | 0.4 | 32.5 | 14.1 |
| 43180 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43180 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 43183 Orig | 61.2 | 1.91 | 1.92 | 6.77 | 1.98 | 1.86 | 0.2 | 108 | 156 | 2060 | 6.84 | 3.5 | 107 | 7.2 | 7.0 | 3.4 | < 0.05 | 2.07 | 24.6 | 17.2 | 0.48 | 0.2 | 218 | 14.5 |
| 43183 Dup | 57.6 | 1.88 | 1.80 | 5.46 | 1.44 | 1.73 | 0.2 | 117 | 154 | 2120 | 6.68 | 2.6 | 107 | 6.6 | 6.2 | 3.0 | < 0.05 | 1.79 | 24.1 | 15.7 | 0.64 | < 0.1 | 217 | 15.1 |
| 43190 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43190 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 43197 Orig | 117 | 1.98 | 2.05 | 7.01 | 1.90 | 1.76 | 0.3 | 127 | 295 | 1790 | 7.81 | 3.3 | 168 | 5.2 | 7.6 | 2.4 | < 0.05 | 1.35 | 30.1 | 13.5 | 0.32 | 0.3 | 228 | 17.5 |
| 43197 Dup | 117 | 1.94 | 2.01 | 6.95 | 2.00 | 1.76 | 0.3 | 140 | 288 | 1720 | 7.76 | 3.4 | 167 | 5.1 | 7.9 | 2.4 | < 0.05 | 1.38 | 29.5 | 13.3 | 0.31 | < 0.1 | 225 | 17.2 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|--------|--------|--------|--------|--------|-------|-----|-------|------|--------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|-------|-------|
| 43200 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43200 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 46515 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 46515 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 46518 Orig | 34.4 | 2.11 | 1.38 | 6.76 | 1.86 | 2.23 | 0.2 | 89 | 85.7 | 1110 | 4.74 | 2.5 | 52.1 | 2.7 | 3.3 | 1.2 | < 0.05 | 1.53 | 15.4 | 5.01 | 0.13 | < 0.1 | 87.7 | 12.7 |
| 46518 Dup | 32.7 | 2.12 | 1.38 | 6.80 | 1.82 | 2.17 | 0.2 | 86 | 158 | 1110 | 4.69 | 1.3 | 51.7 | 2.7 | 2.8 | 1.2 | < 0.05 | 1.51 | 15.2 | 5.03 | 0.13 | < 0.1 | 86.5 | 12.9 |
| Method Blank Method Blank | < 0.5 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.1 | < 1 | < 0.5 | < 1 | < 0.01 | < 0.1 | < 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.05 | < 0.1 | < 0.05 | < 0.02 | < 0.1 | < 0.2 | < 0.1 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 420 | 2.6 | 29.2 | 290 | 24 | 1.1 | 17.4 | 0.8 | 29 | 48.7 | 13.2 | 698 | 7.1 | 15.0 | | 8.6 | 3.1 | 4.3 | 0.8 | 5.2 | 1170 | | 0.4 | 2.1 |
| GXR-1 Cert | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 | 1.90 |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 97.9 | 167 | 13.9 | 232 | 44 | 8.9 | 308 | 0.2 | 7 | 4.8 | 0.9 | 699 | 59.5 | 111 | | 43.4 | 6.8 | 4.6 | 0.5 | 2.9 | 6450 | | 0.2 | 0.9 |
| GXR-4 Cert | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 | 1.60 |
| SDC-1 Meas | 0.3 | | 34.8 | 190 | 34 | | < 0.1 | | < 1 | < 0.1 | | 678 | | | | | | | | | 32.2 | | | |
| SDC-1 Cert | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | 30.0 | | | |
| SCO-1 Meas | 11.4 | | 20.0 | 170 | 100 | | 0.9 | | 3 | 1.2 | | 578 | | | | | | | | | 27.1 | | | |
| SCO-1 Cert | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | 28.7 | | | |
| GXR-6 Meas | 246 | 82.6 | 11.8 | 47.5 | 80 | 2.6 | 1.1 | < 0.1 | < 1 | 1.2 | < 0.1 | 1730 | 12.0 | 31.8 | | 11.3 | 2.4 | 2.2 | 0.4 | 2.4 | 60.8 | | 0.2 | 1.2 |
| GXR-6 Cert | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 | 2.40 |
| DNC-1a Meas | | | 17.4 | 150 | 41 | | | | | 0.9 | | 103 | 3.8 | | | | | | | | 99.3 | | | 1.9 |
| DNC-1a Cert | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | | | | | | 100 | | | 2.00 |
| OREAS 13b (4-Acid) Meas | 46.4 | | | | | | 11.0 | | | | | | | | | | | | | | 2440 | | | |
| OREAS 13b (4-Acid) Cert | 57 | | | | | | 9.0 | | | | | | | | | | | | | | 2327 | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 87335 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87335 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87338 Orig | 4.9 | 72.0 | 42.4 | 400 | 116 | 156 | 2.5 | < 0.1 | 2 | < 0.1 | < 0.1 | 751 | 319 | 676 | 78.9 | 285 | 39.4 | 24.6 | 2.5 | 11.6 | 18.0 | 0.6 | 0.5 | 2.7 |
| 87338 Dup | 0.1 | 57.0 | 38.0 | 347 | 152 | 168 | 1.3 | 0.1 | 3 | 0.1 | 0.2 | 692 | 297 | 609 | 69.2 | 259 | 37.0 | 25.0 | 2.5 | 11.2 | 20.8 | 0.5 | 0.5 | 2.6 |
| 87345 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87345 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87352 Orig | 5.8 | 64.3 | 43.7 | 454 | 152 | 260 | 5.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 541 | 271 | 534 | 61.4 | 228 | 36.0 | 24.9 | 2.6 | 11.9 | 35.3 | 0.7 | 0.5 | 2.8 |
| 87352 Dup | 3.0 | 70.3 | 45.3 | 496 | 126 | 104 | 6.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 555 | 278 | 549 | 63.6 | 223 | 33.8 | 23.0 | 2.5 | 12.2 | 30.5 | 0.6 | 0.5 | 2.6 |
| 87355 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87355 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87370 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87370 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87373 Orig | < 0.1 | 89.2 | 46.0 | 344 | 16 | 2.5 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 700 | 294 | 584 | 66.1 | 240 | 35.1 | 25.3 | 2.7 | 12.7 | 27.3 | 0.5 | 0.6 | 3.0 |
| 87373 Dup | < 0.1 | 88.3 | 51.2 | 373 | 8 | 4.8 | 3.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 725 | 324 | 660 | 77.4 | 281 | 41.3 | 27.3 | 2.9 | 13.3 | 29.6 | 0.6 | 0.6 | 3.6 |
| 87380 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 87380 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 87387 Orig | < 0.1 | 82.8 | 14.1 | 345 | 166 | 39.3 | 4.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 684 | 90.6 | 148 | 15.9 | 53.3 | 8.1 | 5.5 | 0.6 | 3.3 | 1.3 | 0.4 | 0.2 | 1.0 |
| 87387 Dup | < 0.1 | 79.1 | 13.1 | 322 | 161 | 32.9 | 3.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 678 | 73.6 | 125 | 13.5 | 45.7 | 7.2 | 5.2 | 0.6 | 3.2 | 1.2 | 0.5 | 0.2 | 0.9 |
| 43180 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43180 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 43183 Orig | 0.3 | 80.9 | 83.1 | 338 | 153 | 76.7 | 3.8 | 0.1 | 3 | 0.2 | < 0.1 | 773 | 640 | 1120 | 131 | 455 | 70.0 | 47.6 | 4.8 | 22.1 | 43.2 | 1.0 | 0.8 | 4.4 |
| 43183 Dup | < 0.1 | 38.5 | 71.2 | 311 | 130 | 120 | 4.4 | 0.1 | 1 | 0.1 | 0.1 | 721 | 476 | 871 | 105 | 384 | 62.2 | 42.6 | 4.3 | 19.8 | 44.4 | 0.8 | 0.8 | 3.9 |
| 43190 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43190 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 43197 Orig | 6.7 | 54.2 | 56.0 | 345 | 154 | 57.0 | 12.4 | 0.2 | 3 | 0.3 | 0.1 | 578 | 422 | 876 | 96.3 | 349 | 55.7 | 34.7 | 3.6 | 16.5 | 25.3 | 0.9 | 0.6 | 3.0 |
| 43197 Dup | 4.9 | 57.7 | 56.7 | 349 | 174 | 110 | 13.3 | 0.2 | 4 | 0.3 | < 0.1 | 572 | 420 | 869 | 95.0 | 342 | 55.0 | 34.5 | 3.5 | 16.2 | 25.4 | 0.9 | 0.6 | 3.1 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-----|-------|-------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 43200 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 43200 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 46515 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 46515 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 46518 Orig | < 0.1 | 72.1 | 27.1 | 373 | 121 | 102 | 5.8 | < 0.1 | 2 | < 0.1 | 0.1 | 693 | 166 | 336 | 38.3 | 137 | 20.9 | 13.4 | 1.5 | 7.3 | 11.1 | 0.3 | 0.3 | 1.7 |
| 46518 Dup | < 0.1 | 69.1 | 26.4 | 354 | 83 | 125 | 5.6 | < 0.1 | 2 | 0.1 | < 0.1 | 667 | 164 | 330 | 38.1 | 138 | 21.3 | 13.7 | 1.5 | 7.2 | 10.6 | 0.3 | 0.3 | 1.7 |
| Method Blank Method Blank | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.1 | < 0.1 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-------------------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| GXR-1 Meas | 0.3 | < 0.1 | 166 | | 0.36 | 787 | 2 | 2.8 | 35.0 | | 0.059 | 0.24 | |
| GXR-1 Cert | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 | |
| DH-1a Meas | | | | | | | | > 200 | 2440 | | | | |
| DH-1a Cert | | | | | | | | 910 | 2630 | | | | |
| GXR-4 Meas | < 0.1 | 0.6 | 36.1 | | 3.24 | 52.9 | 8 | 22.3 | 5.7 | | 0.133 | 1.80 | |
| GXR-4 Cert | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 | |
| SDC-1 Meas | | | < 0.1 | | | 25.4 | 17 | | | 0.104 | 0.057 | 0.06 | |
| SDC-1 Cert | | | 0.800 | | | 25.0 | 17.0 | | | 0.606 | 0.0690 | 0.0650 | |
| SCO-1 Meas | | | 0.5 | | | 30.9 | 13 | | | 0.356 | 0.087 | | |
| SCO-1 Cert | | | 1.40 | | | 31.0 | 10.8 | | | 0.380 | 0.0900 | | |
| GXR-6 Meas | 0.1 | < 0.1 | 0.2 | | 1.86 | 92.6 | 24 | 6.7 | 1.3 | | 0.031 | 0.01 | |
| GXR-6 Cert | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 | |
| DNC-1a Meas | | | | | | | 31 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.16 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1310 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1140 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1120 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1120 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 211 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 197 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 231 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| 87335 Orig | | | | | | | | | | | | | < 5 |
| 87335 Dup | | | | | | | | | | | | | < 5 |
| 87338 Orig | 0.4 | 1.5 | 1.0 | 0.001 | 0.41 | 24.2 | 18 | 51.8 | 2.4 | 0.344 | 0.289 | 0.02 | |
| 87338 Dup | 0.4 | 2.1 | 1.0 | 0.003 | 0.37 | 23.7 | 18 | 47.3 | 2.6 | 0.344 | 0.292 | 0.02 | |
| 87345 Orig | | | | | | | | | | | | | < 5 |
| 87345 Dup | | | | | | | | | | | | | < 5 |
| 87352 Orig | 0.4 | 1.5 | 2.1 | < 0.001 | 0.46 | 40.9 | 20 | 59.6 | 2.3 | 0.426 | 0.299 | 0.02 | |
| 87352 Dup | 0.3 | 0.7 | 0.7 | < 0.001 | 0.42 | 37.8 | 20 | 52.2 | 2.9 | 0.288 | 0.226 | 0.01 | |
| 87355 Orig | | | | | | | | | | | | | 6 |
| 87355 Dup | | | | | | | | | | | | | < 5 |
| 87370 Orig | | | | | | | | | | | | | < 5 |
| 87370 Dup | | | | | | | | | | | | | < 5 |
| 87373 Orig | 0.4 | 0.1 | 0.4 | < 0.001 | 0.53 | 28.7 | 20 | 42.8 | 4.4 | 0.212 | 0.340 | < 0.01 | |
| 87373 Dup | 0.5 | < 0.1 | 0.4 | 0.001 | 0.61 | 32.3 | 20 | 54.1 | 5.3 | 0.248 | 0.381 | < 0.01 | |
| 87380 Orig | | | | | | | | | | | | | 5 |
| 87380 Dup | | | | | | | | | | | | | < 5 |
| 87387 Orig | 0.1 | 0.5 | 0.4 | < 0.001 | 0.39 | 17.2 | 10 | 16.1 | 1.2 | 0.259 | 0.098 | < 0.01 | |
| 87387 Dup | 0.1 | 0.6 | 0.4 | 0.001 | 0.39 | 16.9 | 10 | 13.6 | 1.4 | 0.243 | 0.089 | < 0.01 | |
| 43180 Orig | | | | | | | | | | | | | < 5 |
| 43180 Dup | | | | | | | | | | | | | < 5 |
| 43183 Orig | 0.6 | 1.0 | 1.2 | 0.003 | 0.54 | 54.0 | 33 | 118 | 3.5 | 0.430 | 0.304 | 0.02 | |
| 43183 Dup | 0.6 | 1.8 | 2.4 | 0.003 | 0.52 | 55.2 | 24 | 85.6 | 3.0 | 0.464 | 0.259 | 0.01 | |
| 43190 Orig | | | | | | | | | | | | | < 5 |
| 43190 Dup | | | | | | | | | | | | | < 5 |
| 43197 Orig | 0.4 | 0.4 | 1.7 | 0.001 | 0.65 | 51.8 | 22 | 101 | 2.8 | 0.419 | 0.286 | 0.03 | |
| 43197 Dup | 0.4 | 1.7 | 2.8 | 0.002 | 0.64 | 50.3 | 21 | 95.1 | 3.3 | 0.418 | 0.273 | 0.02 | |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|----------|---------|--------|-------|
| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 43200 Orig | | | | | | | | | | | | | < 5 |
| 43200 Dup | | | | | | | | | | | | | < 5 |
| 46515 Orig | | | | | | | | | | | | | < 5 |
| 46515 Dup | | | | | | | | | | | | | < 5 |
| 46518 Orig | 0.2 | 2.8 | 0.9 | 0.003 | 0.37 | 25.5 | 15 | 29.3 | 4.3 | 0.422 | 0.270 | 0.02 | |
| 46518 Dup | 0.2 | 2.6 | 1.0 | 0.001 | 0.38 | 26.3 | 14 | 29.5 | 4.1 | 0.408 | 0.258 | 0.02 | |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 1 | < 0.1 | < 0.1 | < 0.0005 | < 0.001 | < 0.01 | |
| Method Blank Method Blank | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 | |
| Method Blank Method Blank | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 | |
| Method Blank Method Blank | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 | |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |
| Method Blank Method Blank | | | | | | | | | | | | | < 5 |



Date Submitted: 22-Jul-11
Invoice No.: A11-7308
Invoice Date: 24-Aug-11
Your Reference: Batch #2

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

314 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-6+Au Total Digestion ICP & ICP/MS

REPORT **A11-7308**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
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Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91501 | | 29.0 | 2.79 | 1.32 | 7.18 | 0.50 | 2.88 | 0.2 | 75 | 51.2 | 1360 | 8.04 | 1.4 | 58.4 | 3.8 | 3.0 | 1.5 | 0.12 | 0.98 | 45.9 | 2.75 | 0.09 | 2.2 | 114 |
| 91502 | | 25.5 | 2.57 | 1.43 | 6.90 | 0.63 | 2.92 | 0.4 | 91 | 73.8 | 807 | 7.70 | 1.2 | 56.4 | 4.1 | 2.5 | 1.5 | < 0.05 | 1.21 | 39.2 | 2.63 | 0.06 | 1.7 | 96.7 |
| 91503 | 6 | 27.0 | > 3.00 | 1.63 | 7.59 | 1.28 | 1.84 | < 0.1 | 76 | 105 | 667 | 6.44 | 3.2 | 72.0 | 1.9 | 3.4 | 0.7 | < 0.05 | 1.66 | 25.9 | 1.47 | 0.05 | 1.0 | 73.3 |
| 91504 | | 34.3 | > 3.00 | 2.46 | 8.57 | 1.40 | 2.65 | 0.2 | 79 | 100 | 1360 | 8.09 | 2.4 | 92.4 | 3.4 | 3.4 | 1.1 | < 0.05 | 1.58 | 38.2 | 2.79 | 0.05 | 1.6 | 118 |
| 91505 | | 17.7 | > 3.00 | 1.59 | 9.77 | 0.38 | 3.45 | 0.1 | 49 | 44.4 | 765 | 7.34 | 1.2 | 32.8 | 2.8 | 2.9 | 0.9 | < 0.05 | 0.81 | 23.0 | 2.04 | 0.05 | 1.0 | 92.2 |
| 91506 | 6 | 29.5 | > 3.00 | 1.75 | 8.37 | 1.05 | 2.21 | 0.2 | 81 | 111 | 1280 | 8.68 | 2.7 | 81.9 | 3.7 | 5.1 | 1.4 | < 0.05 | 1.33 | 38.0 | 3.86 | 0.11 | 1.3 | 137 |
| 91507 | | 20.6 | 2.73 | 1.31 | 7.62 | 0.45 | 3.16 | 0.2 | 55 | 50.7 | 1270 | 7.59 | 1.1 | 37.4 | 2.4 | 3.0 | 1.0 | < 0.05 | 1.10 | 32.5 | 2.09 | 0.06 | 0.9 | 98.8 |
| 91508 | | 65.4 | 1.28 | 2.21 | 4.60 | 1.38 | 2.24 | 0.6 | 148 | 142 | 2950 | 10.4 | 0.3 | 168 | 6.8 | 7.6 | 2.9 | < 0.05 | 2.50 | 48.1 | 9.07 | 0.37 | 2.5 | 235 |
| 91509 | 6 | 41.7 | 2.51 | 1.73 | 6.56 | 1.09 | 2.79 | 0.3 | 155 | 142 | 2610 | 10.4 | 3.6 | 138 | 7.9 | 6.6 | 3.5 | < 0.05 | 1.50 | 46.1 | 10.5 | 0.16 | 2.9 | 185 |
| 91510 | | 28.4 | 2.58 | 1.02 | 4.17 | 0.83 | 2.11 | 0.1 | 164 | 105 | 1410 | 8.42 | 4.8 | 84.1 | 3.3 | 4.6 | 1.3 | < 0.05 | 0.95 | 38.2 | 2.29 | 0.09 | 1.2 | 87.9 |
| 91511 | | 21.8 | 2.63 | 1.10 | 6.59 | 1.57 | 1.95 | < 0.1 | 124 | 124 | 443 | 5.91 | 4.0 | 65.7 | 1.8 | 4.0 | 0.6 | < 0.05 | 1.98 | 18.6 | 1.21 | 0.07 | 0.8 | 74.1 |
| 91512 | 8 | 40.7 | 2.83 | 2.15 | 7.75 | 1.52 | 3.22 | 0.3 | 136 | 129 | 2450 | 8.57 | 2.9 | 126 | 5.9 | 5.4 | 2.1 | < 0.05 | 1.71 | 49.7 | 4.67 | 0.14 | 2.4 | 163 |
| 91513 | | 45.6 | > 3.00 | 2.02 | 7.22 | 0.99 | 2.16 | 0.2 | 106 | 139 | 1670 | 8.25 | 1.8 | 127 | 5.7 | 8.9 | 2.1 | < 0.05 | 1.50 | 44.5 | 5.59 | 0.11 | 1.9 | 171 |
| 91514 | | 40.7 | 2.83 | 1.96 | 7.50 | 1.06 | 2.98 | 0.6 | 95 | 122 | 3270 | 8.97 | 1.3 | 113 | 4.7 | 11.4 | 1.7 | < 0.05 | 2.83 | 47.8 | 4.36 | 0.16 | 1.2 | 185 |
| 91515 | < 5 | 27.4 | 2.39 | 1.33 | 4.95 | 1.23 | 1.38 | < 0.1 | 80 | 130 | 552 | 4.89 | 1.6 | 100 | 2.7 | 4.2 | 1.1 | < 0.05 | 1.97 | 25.0 | 2.73 | < 0.02 | 1.0 | 76.6 |
| 91516 | | 37.8 | 1.88 | 0.97 | 4.34 | 0.97 | 1.76 | 0.2 | 144 | 146 | 788 | 6.23 | < 0.1 | 63.9 | 5.6 | 8.3 | 2.3 | 0.08 | 2.51 | 23.6 | 6.29 | 0.13 | 2.0 | 100 |
| 91517 | | 37.4 | 2.74 | 1.59 | 5.26 | 1.15 | 1.67 | 0.1 | 128 | 172 | 770 | 6.00 | 0.8 | 114 | 4.4 | 6.2 | 1.8 | 0.06 | 2.31 | 28.7 | 5.30 | 0.06 | 1.8 | 121 |
| 91518 | 10 | 143 | 0.40 | 3.38 | 2.44 | 1.90 | 1.84 | 3.4 | 123 | 220 | 8660 | 13.5 | 0.1 | 208 | 24.0 | 20.4 | 9.6 | 0.21 | 6.64 | 51.0 | 29.2 | 2.04 | 6.6 | 797 |
| 91519 | | 42.5 | 1.76 | 2.43 | 4.72 | 1.57 | 4.25 | 0.4 | 121 | 156 | 1750 | 7.04 | 0.3 | 109 | 5.9 | 9.0 | 2.2 | 0.09 | 2.61 | 39.2 | 6.98 | 0.18 | 1.6 | 203 |
| 91520 | | 37.0 | 2.14 | 1.92 | 4.70 | 1.28 | 2.00 | 0.3 | 192 | 364 | 1620 | 7.22 | 5.8 | 207 | 4.0 | 5.7 | 1.5 | < 0.05 | 2.55 | 52.9 | 4.68 | 0.11 | 1.5 | 157 |
| 91521 | 27 | 71.5 | 0.46 | 2.13 | 2.86 | 1.01 | 2.04 | 1.4 | 251 | 287 | 7240 | 13.4 | 3.1 | 137 | 14.4 | 15.7 | 6.6 | < 0.05 | 3.95 | 46.0 | 33.6 | 0.88 | 5.0 | 577 |
| 91522 | | 54.7 | 1.44 | 1.27 | 4.97 | 1.25 | 2.59 | 0.3 | 223 | 97.5 | 1550 | 9.56 | 0.2 | 105 | 9.3 | 11.1 | 3.9 | 0.05 | 2.30 | 42.0 | 13.5 | 0.31 | 2.7 | 300 |
| 91523 | | 29.3 | 1.84 | 1.29 | 4.48 | 1.13 | 2.22 | 0.6 | 162 | 81.7 | 939 | 8.07 | < 0.1 | 94.1 | 6.7 | 8.1 | 2.9 | 0.11 | 1.64 | 36.1 | 10.5 | 0.38 | 2.4 | 319 |
| 91524 | 9 | 21.8 | 1.35 | 1.12 | 3.26 | 0.80 | 2.94 | 0.5 | 166 | 51.1 | 1920 | 5.62 | < 0.1 | 87.3 | 4.6 | 6.1 | 2.0 | 0.09 | 1.36 | 31.8 | 5.86 | 0.28 | 1.5 | 186 |
| 91525 | | 18.2 | 1.13 | 1.29 | 3.10 | 0.69 | 3.02 | 0.4 | 70 | 88.6 | 1340 | 4.89 | < 0.1 | 89.9 | 3.2 | 3.9 | 1.4 | 0.09 | 1.56 | 28.1 | 3.83 | 0.09 | 1.5 | 121 |
| 91526 | | 43.3 | 2.54 | 1.81 | 5.20 | 1.14 | 1.69 | 0.2 | 88 | 198 | 1600 | 7.10 | 1.1 | 125 | 5.2 | 7.0 | 2.2 | 0.06 | 2.00 | 36.8 | 7.99 | 0.10 | 2.0 | 139 |
| 91527 | 27 | 8.5 | 0.44 | 0.71 | 1.26 | 0.25 | 4.20 | 0.5 | 62 | 65.0 | 1220 | 2.33 | < 0.1 | 43.1 | 3.0 | 2.0 | 1.2 | 0.16 | 0.77 | 11.7 | 3.83 | 0.04 | 1.5 | 117 |
| 91528 | | 24.6 | 2.68 | 1.78 | 5.47 | 1.00 | 1.56 | 0.3 | 71 | 221 | 1670 | 6.75 | 2.1 | 129 | 4.1 | 4.9 | 1.6 | 0.06 | 1.84 | 33.3 | 6.65 | 0.10 | 1.4 | 153 |
| 91529 | | 49.6 | 2.09 | 3.31 | 4.59 | 0.96 | 5.24 | 0.6 | 165 | 82.4 | 3610 | 7.61 | < 0.1 | 109 | 12.5 | 11.7 | 5.0 | 0.11 | 1.68 | 35.4 | 17.7 | 1.41 | 3.4 | 268 |
| 91530 | < 5 | 85.0 | > 3.00 | 1.91 | 4.91 | 0.70 | 1.23 | 0.5 | 244 | 254 | 2370 | 8.55 | 6.7 | 140 | 11.2 | 23.4 | 5.0 | < 0.05 | 2.58 | 60.9 | 22.3 | 0.67 | 3.9 | 169 |
| 91531 | | 10.2 | 1.90 | 2.36 | 3.24 | 0.36 | 3.90 | 0.3 | 123 | 679 | 1250 | 3.98 | 2.6 | 341 | 1.4 | 3.7 | 0.6 | < 0.05 | 1.15 | 29.9 | 2.04 | < 0.02 | 1.4 | 63.4 |
| 91532 | | 29.5 | 1.77 | 1.32 | 5.44 | 1.48 | 1.25 | 0.3 | 171 | 199 | 535 | 8.16 | < 0.1 | 83.0 | 4.0 | 7.7 | 1.6 | 0.07 | 2.30 | 20.4 | 3.20 | 0.17 | 1.3 | 98.3 |
| 91533 | < 5 | 53.0 | 0.81 | 0.78 | 3.70 | 0.90 | 2.42 | 0.4 | 110 | 36.8 | 1630 | 9.32 | < 0.1 | 51.6 | 8.7 | 9.8 | 3.7 | 0.06 | 1.88 | 31.8 | 10.6 | 0.19 | 2.7 | 126 |
| 91534 | | 40.2 | 2.59 | 1.83 | 5.93 | 1.60 | 1.13 | 0.2 | 51 | 221 | 834 | 7.00 | 2.0 | 139 | 3.5 | 5.8 | 1.4 | 0.08 | 1.73 | 36.6 | 3.44 | 0.03 | 1.1 | 118 |
| 91535 | | 29.1 | 0.81 | 3.38 | 2.65 | 0.91 | 9.89 | 0.8 | 145 | 86.3 | 3060 | 8.38 | < 0.1 | 64.6 | 10.4 | 14.4 | 4.2 | 0.16 | 1.52 | 39.7 | 10.1 | 0.26 | 3.3 | 218 |
| 91536 | 5 | 46.4 | 2.15 | 1.58 | 5.32 | 1.08 | 1.96 | 0.3 | 108 | 178 | 1180 | 7.79 | 1.0 | 132 | 5.9 | 7.5 | 2.4 | 0.09 | 2.40 | 36.0 | 6.78 | 0.11 | 2.3 | 163 |
| 91537 | | 29.1 | 1.86 | 1.50 | 4.11 | 0.96 | 3.89 | 0.6 | 178 | 123 | 3760 | 7.21 | < 0.1 | 144 | 11.9 | 7.1 | 4.8 | 0.15 | 1.58 | 35.5 | 14.6 | 0.24 | 3.5 | 211 |
| 91538 | | 21.5 | 1.08 | 1.87 | 2.90 | 0.67 | 5.52 | 1.5 | 184 | 158 | 4970 | 7.89 | 4.0 | 98.2 | 14.0 | 7.9 | 5.2 | < 0.05 | 1.29 | 33.9 | 13.3 | 0.39 | 4.1 | 454 |
| 91539 | 8 | 61.3 | 0.25 | 0.98 | 4.80 | 2.31 | 0.36 | 0.5 | 156 | 260 | 1850 | 13.2 | 6.3 | 206 | 3.8 | 14.3 | 1.5 | 0.07 | 1.65 | 139 | 3.28 | 0.49 | 2.4 | 585 |
| 91540 | | 72.2 | 2.25 | 1.69 | 5.28 | 0.82 | 0.71 | 0.2 | 96 | 352 | 1020 | 8.53 | 0.1 | 123 | 2.8 | 8.3 | 1.2 | < 0.05 | 1.49 | 33.0 | 5.54 | 0.34 | 1.6 | 214 |
| 91541 | | 23.7 | 1.89 | 1.98 | 4.51 | 1.01 | 3.25 | 0.9 | 84 | 156 | 3380 | 7.69 | < 0.1 | 133 | 5.6 | 6.7 | 2.6 | 0.09 | 1.65 | 35.1 | 13.7 | 0.42 | 2.5 | 438 |
| 91542 | < 5 | 16.7 | 2.81 | 0.73 | 5.28 | 0.73 | 0.60 | 0.2 | 45 | 129 | 456 | 7.09 | 0.1 | 51.3 | 2.1 | 6.8 | 0.9 | < 0.05 | 1.07 | 16.2 | 3.81 | 0.28 | 0.9 | 134 |
| 91543 | | 38.9 | 1.68 | 1.35 | 4.62 | 1.04 | 1.52 | 0.3 | 101 | 176 | 1160 | 13.5 | 0.2 | 117 | 3.1 | 6.4 | 1.2 | 0.23 | 3.34 | 56.1 | 3.47 | 0.13 | 1.8 | 221 |
| 91544 | | 46.1 | 0.91 | 1.30 | 3.71 | 0.94 | 2.13 | 0.5 | 90 | 228 | 2470 | 8.74 | < 0.1 | 124 | 4.0 | 9.1 | 1.9 | 0.09 | 2.21 | 45.5 | 7.33 | 0.36 | 2.3 | 272 |
| 91545 | 11 | 75.8 | 2.23 | 1.25 | 5.13 | 1.00 | 1.02 | 0.4 | 70 | 70.1 | 1810 | 11.2 | 1.3 | 81.9 | 5.9 | 11.2 | 2.6 | 0.05 | 3.06 | 50.7 | 10.2 | 0.32 | 2.6 | 162 |
| 91546 | | 113 | 1.56 | 2.03 | 5.34 | 1.71 | 1.02 | 0.5 | 78 | 243 | 1300 | 8.52 | 2.2 | 112 | 10.1 | 18.2 | 4.4 | < 0.05 | 3.23 | 41.3 | 11.3 | 0.35 | 3.4 | 222 |
| 91547 | | 54.5 | 2.42 | 1.67 | 5.74 | 1.18 | 1.16 | 0.4 | 100 | 235 | 1320 | 8.41 | 3.5 | 96.8 | 4.9 | 8.6 | 1.9 | < 0.05 | 1.83 | 35.8 | 5.20 | 0.13 | 1.7 | 140 |
| 91548 | < 5 | 29.8 | 0.59 | 1.47 | 3.08 | 0.21 | 4.95 | 1.0 | 270 | 73.9 | 2640 | 12.1 | < 0.1 | 67.9 | 16.6 | 14.4 | 6.8 | < 0.05 | 1.84 | 37.0 | 24.7 | 0.22 | 5.2 | 287 |
| 91549 | | 44.4 | 2.23 | 1.68 | 6.05 | 0.67 | 2.16 | 0.2 | 134 | 186 | 1630 | 7.29 | 3.9 | 118 | 5.8 | 10.0 | 2.4 | < 0.05 | 1.92 | 38.9 | 8.08 | 0.11 | 2.0 | 154 |
| 91550 | | 47.8 | 2.45 | 1.41 | 5.83 | 0.88 | 1.42 | 0.2 | 98 | 148 | 598 | 6.20 | 2.4 | 105 | 3.5 | 17.9 | 1.3 | < 0.05 | 3.34 | 37.3 | 2.91 | 0.07 | 1.0 | 112 |
| 91551 | < 5 | 41.1 | 1.68 | 1.07 | 5.60 | 1.02 | 2.04 | 0.2 | 110 | 78.6 | 1040 | 7.88 | < 0.1 | 66.9 | 3.6 | 6.4 | 1.4 | < 0.05 | 1.45 | 31.0 | 3.72 | 0.22 | 1.3 | 99.5 |
| 91552 | | 35.2 | 2.15 | 1.40 | 5.54 | 0.90 | 2.23 | 0.2 | 114 | 96.2 | 1390 | 7.25 | 0.5 | 88.8 | 4.5 | 6.7 | 1.9 | 0.06 | 1.63 | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91553 | | 2.6 | 0.22 | 0.23 | 0.94 | 0.10 | 4.06 | 0.6 | 21 | 12.7 | 778 | 1.04 | < 0.1 | 20.1 | 1.7 | 0.6 | 0.7 | 0.10 | 0.45 | 8.7 | 1.89 | < 0.02 | 1.1 | 33.7 |
| 91554 | < 5 | 26.7 | 1.82 | 1.01 | 4.81 | 0.81 | 2.52 | 0.8 | 53 | 88.7 | 1790 | 5.76 | 0.9 | 83.8 | 5.4 | 4.5 | 2.1 | 0.16 | 1.40 | 31.0 | 5.55 | < 0.02 | 2.3 | 110 |
| 91555 | | 17.9 | 2.44 | 1.04 | 5.54 | 1.02 | 1.40 | 0.2 | 41 | 80.5 | 670 | 6.77 | 1.5 | 39.6 | 2.1 | 3.4 | 0.8 | 0.07 | 1.41 | 19.5 | 1.42 | 0.05 | 0.9 | 76.6 |
| 91556 | | 30.2 | 2.95 | 1.40 | 6.50 | 1.08 | 1.45 | 0.2 | 61 | 133 | 775 | 7.60 | 2.6 | 57.6 | 2.3 | 3.6 | 0.9 | < 0.05 | 1.35 | 27.1 | 2.11 | 0.05 | 1.1 | 94.6 |
| 91557 | < 5 | 30.2 | 2.40 | 1.50 | 5.85 | 1.16 | 2.06 | 0.3 | 102 | 142 | 2710 | 6.95 | 2.2 | 90.8 | 4.9 | 5.4 | 1.9 | 0.09 | 1.72 | 30.5 | 6.15 | 0.10 | 1.7 | 141 |
| 91558 | | 28.8 | 2.17 | 1.20 | 6.00 | 0.82 | 2.06 | 0.4 | 79 | 80.2 | 2060 | 7.19 | 0.4 | 49.8 | 5.1 | 2.9 | 2.0 | 0.05 | 1.28 | 34.0 | 7.28 | 0.09 | 1.4 | 106 |
| 91559 | | 26.6 | 2.48 | 1.27 | 8.22 | 1.05 | 1.94 | 0.2 | 252 | 105 | 1070 | 7.39 | 8.2 | 35.5 | 3.3 | 5.2 | 1.3 | < 0.05 | 1.68 | 29.4 | 3.40 | 0.11 | 1.3 | 89.3 |
| 91560 | < 5 | 22.5 | 2.58 | 1.32 | 6.62 | 0.87 | 1.75 | 0.1 | 76 | 98.4 | 616 | 6.04 | 2.9 | 52.4 | 1.9 | 2.9 | 0.8 | < 0.05 | 1.07 | 26.8 | 1.90 | 0.04 | 0.7 | 61.0 |
| 91561 | | 38.3 | 1.76 | 1.65 | 6.54 | 1.47 | 1.22 | 0.2 | 87 | 135 | 495 | 5.80 | 2.6 | 81.6 | 1.5 | 1.9 | 0.6 | 0.05 | 2.17 | 23.7 | 1.29 | 0.03 | 0.6 | 61.4 |
| 91562 | | 15.8 | 2.48 | 1.03 | 6.69 | 0.92 | 1.72 | 0.2 | 44 | 73.4 | 502 | 5.34 | 1.9 | 47.2 | 1.7 | 2.1 | 0.7 | 0.05 | 1.44 | 19.2 | 1.49 | < 0.02 | 0.7 | 45.1 |
| 91563 | < 5 | 14.6 | > 3.00 | 1.18 | 7.61 | 0.79 | 1.99 | < 0.1 | 31 | 50.2 | 485 | 5.99 | 1.3 | 36.1 | 1.1 | 2.6 | 0.4 | < 0.05 | 1.21 | 23.7 | 0.89 | < 0.02 | 0.6 | 58.3 |
| 91564 | | 17.7 | 2.70 | 1.45 | 6.52 | 1.15 | 1.67 | 0.1 | 32 | 81.6 | 417 | 4.90 | 1.8 | 46.0 | 1.5 | 1.9 | 0.5 | < 0.05 | 1.61 | 17.4 | 1.01 | < 0.02 | 0.7 | 53.6 |
| 91565 | | 27.9 | 1.99 | 2.10 | 6.56 | 0.42 | 3.68 | 0.4 | 37 | 203 | 1960 | 7.76 | 0.6 | 103 | 2.8 | 2.1 | 1.1 | < 0.05 | 1.65 | 49.1 | 2.21 | < 0.02 | 1.0 | 96.8 |
| 91566 | < 5 | 29.9 | 1.72 | 2.76 | 7.04 | 0.22 | 2.07 | 0.1 | 35 | 24.8 | 640 | 7.17 | < 0.1 | 46.1 | 1.9 | 1.6 | 0.7 | < 0.05 | 0.86 | 39.1 | 1.47 | < 0.02 | 0.8 | 70.2 |
| 91567 | | 29.3 | 2.10 | 1.90 | 6.63 | 1.60 | 1.72 | 0.2 | 75 | 122 | 1040 | 6.18 | 1.1 | 86.9 | 2.7 | 2.6 | 1.0 | 0.09 | 1.95 | 29.1 | 3.04 | 0.09 | 0.9 | 96.5 |
| 91568 | | 10.8 | 1.03 | 0.73 | 3.38 | 0.39 | 3.75 | 0.2 | 71 | 42.7 | 1560 | 3.87 | 1.0 | 38.0 | 3.0 | 0.9 | 1.0 | < 0.05 | 0.82 | 19.0 | 2.04 | < 0.02 | 1.4 | 39.7 |
| 91569 | < 5 | 10.0 | 2.56 | 0.88 | 6.27 | 0.53 | 1.83 | 0.9 | 44 | 48.0 | 722 | 4.96 | 1.5 | 32.3 | 1.8 | 2.0 | 0.7 | 0.09 | 1.23 | 18.7 | 1.74 | < 0.02 | 0.8 | 46.3 |
| 91570 | | 35.1 | > 3.00 | 1.45 | 7.35 | 0.89 | 1.71 | 0.1 | 76 | 148 | 690 | 7.80 | 2.2 | 86.2 | 2.5 | 3.9 | 1.1 | < 0.05 | 1.26 | 31.5 | 2.64 | < 0.02 | 0.9 | 87.5 |
| 91571 | | 6.4 | > 3.00 | 0.59 | 7.53 | 0.55 | 2.65 | 0.5 | 26 | 35.9 | 660 | 4.63 | 1.7 | 19.7 | 2.3 | 2.8 | 0.9 | 0.08 | 0.82 | 12.5 | 1.80 | 0.06 | 1.1 | 36.8 |
| 91572 | < 5 | 23.1 | 2.14 | 1.50 | 6.18 | 0.54 | 3.23 | 0.2 | 127 | 15.5 | 926 | 7.19 | 0.5 | 38.5 | 3.8 | 6.1 | 1.5 | < 0.05 | 0.88 | 33.9 | 2.88 | 0.17 | 1.4 | 119 |
| 91573 | | 67.9 | 0.83 | 1.93 | 3.40 | 0.43 | 1.93 | 0.9 | 137 | 268 | 4770 | 14.1 | 0.2 | 125 | 17.6 | 18.0 | 8.0 | < 0.05 | 2.52 | 43.4 | 32.8 | 2.02 | 6.3 | 451 |
| 91574 | | 33.2 | 2.72 | 1.32 | 7.07 | 0.72 | 2.43 | 0.1 | 49 | 84.8 | 1040 | 8.56 | 1.0 | 46.3 | 3.2 | 5.7 | 1.3 | < 0.05 | 0.96 | 30.4 | 3.15 | 0.10 | 1.2 | 95.8 |
| 91575 | < 5 | 0.8 | 0.09 | 0.27 | 0.28 | 0.05 | 4.35 | 0.2 | 11 | 9.9 | 465 | 0.39 | < 0.1 | 13.8 | 0.8 | 0.2 | 0.3 | 0.17 | 0.21 | 1.6 | 0.51 | < 0.02 | 3.0 | 6.3 |
| 91576 | | 1.0 | 0.09 | 0.34 | 0.38 | 0.08 | 5.16 | 0.4 | 10 | 21.0 | 210 | 0.45 | < 0.1 | 13.0 | 0.6 | 0.2 | 0.2 | 0.10 | 0.27 | 1.8 | 0.52 | < 0.02 | 2.3 | 18.0 |
| 91577 | | 20.3 | 1.69 | 0.51 | 3.37 | 0.56 | 5.22 | 0.7 | 115 | 57.1 | 5540 | 14.8 | 4.1 | 66.9 | 12.5 | 12.9 | 5.6 | < 0.05 | 0.72 | 30.5 | 22.2 | 0.35 | 4.6 | 248 |
| 91578 | < 5 | 27.8 | 1.62 | 1.02 | 3.15 | 0.38 | 5.88 | 0.9 | 106 | 52.5 | 4950 | 12.4 | < 0.1 | 39.3 | 10.3 | 8.3 | 4.6 | 0.27 | 1.02 | 24.8 | 17.3 | 0.40 | 3.4 | 213 |
| 91579 | | 1.0 | 0.08 | 0.30 | 0.29 | 0.07 | 4.98 | 0.4 | 8 | 4.5 | 673 | 0.45 | < 0.1 | 9.5 | 0.4 | 0.2 | 0.2 | 0.06 | 0.42 | 2.1 | 0.58 | < 0.02 | 0.9 | 78.5 |
| 91580 | | 2.6 | 0.08 | 0.25 | 0.48 | 0.06 | 5.38 | 0.5 | 23 | 25.2 | 3530 | 1.07 | < 0.1 | 39.5 | 1.3 | 0.7 | 0.5 | 0.19 | 0.30 | 11.4 | 2.00 | < 0.02 | 1.8 | 15.8 |
| 91581 | < 5 | 41.9 | 2.32 | 1.42 | 5.95 | 0.87 | 1.73 | 0.2 | 129 | 115 | 1300 | 8.65 | < 0.1 | 82.6 | 3.5 | 9.0 | 1.5 | < 0.05 | 1.56 | 42.4 | 3.91 | 0.11 | 1.0 | 168 |
| 91582 | | 47.7 | 2.40 | 1.51 | 6.70 | 0.67 | 2.31 | 0.2 | 112 | 164 | 1580 | 10.1 | 0.6 | 98.3 | 6.2 | 13.2 | 2.7 | < 0.05 | 1.67 | 42.3 | 8.60 | 0.12 | 2.1 | 130 |
| 91583 | | 100 | 1.94 | 2.45 | 7.91 | 1.95 | 1.69 | < 0.1 | 49 | 133 | 887 | 9.82 | 0.6 | 135 | 4.4 | 19.1 | 1.8 | < 0.05 | 6.72 | 59.0 | 4.78 | 0.27 | 1.6 | 125 |
| 91584 | < 5 | 27.0 | 0.50 | 1.49 | 2.70 | 0.77 | 8.69 | 0.7 | 230 | 46.7 | 3800 | 14.8 | < 0.1 | 32.0 | 15.1 | 19.9 | 6.4 | 0.13 | 1.12 | 33.0 | 19.0 | 0.65 | 5.3 | 276 |
| 91585 | | 40.1 | 1.50 | 1.86 | 4.24 | 0.91 | 3.57 | 1.2 | 94 | 152 | 5130 | 8.80 | < 0.1 | 155 | 7.5 | 7.2 | 3.3 | 0.14 | 2.66 | 42.4 | 13.0 | 0.33 | 2.3 | 275 |
| 91586 | | 31.3 | 2.06 | 1.23 | 5.31 | 1.23 | 2.05 | 0.5 | 84 | 113 | 1590 | 6.90 | < 0.1 | 79.2 | 3.5 | 5.8 | 1.5 | 0.08 | 2.12 | 37.9 | 4.89 | 0.13 | 1.2 | 222 |
| 91587 | < 5 | 29.0 | 2.30 | 1.79 | 4.48 | 1.23 | 2.86 | 0.5 | 198 | 142 | 2390 | 8.95 | 4.9 | 130 | 4.9 | 6.3 | 2.1 | < 0.05 | 1.92 | 45.7 | 6.70 | 0.17 | 1.8 | 199 |
| 91588 | | 47.5 | 2.01 | 1.67 | 5.74 | 1.23 | 1.56 | 0.2 | 118 | 371 | 1090 | 7.59 | 3.3 | 148 | 3.2 | 7.5 | 1.4 | < 0.05 | 2.59 | 37.2 | 5.48 | 0.11 | 1.4 | 132 |
| 91589 | | 36.6 | 1.94 | 1.64 | 5.26 | 1.16 | 2.50 | 0.3 | 158 | 149 | 1890 | 7.89 | < 0.1 | 113 | 4.1 | 6.5 | 1.8 | < 0.05 | 2.62 | 31.6 | 6.56 | 0.14 | 1.8 | 169 |
| 91590 | < 5 | 40.8 | 2.27 | 1.80 | 5.84 | 1.28 | 2.11 | 0.6 | 149 | 144 | 3220 | 9.99 | < 0.1 | 148 | 7.7 | 7.1 | 3.5 | 0.08 | 1.98 | 43.7 | 13.6 | 0.34 | 3.1 | 229 |
| 91591 | | 60.2 | 1.15 | 0.68 | 4.91 | 0.85 | 1.89 | 0.4 | 73 | 160 | 1450 | 14.4 | < 0.1 | 77.6 | 8.7 | 20.2 | 3.4 | 0.06 | 1.87 | 31.6 | 8.57 | 0.51 | 2.5 | 402 |
| 91592 | | 33.9 | 1.02 | 1.13 | 4.02 | 0.80 | 4.41 | 0.7 | 208 | 47.6 | 1800 | 9.09 | < 0.1 | 52.5 | 14.1 | 17.8 | 6.1 | 0.30 | 2.53 | 25.5 | 18.2 | 0.47 | 3.8 | 231 |
| 91593 | < 5 | 29.6 | 2.00 | 0.94 | 5.23 | 0.98 | 2.39 | 0.5 | 141 | 39.0 | 1280 | 9.25 | < 0.1 | 76.4 | 6.3 | 9.9 | 2.6 | 0.16 | 1.96 | 49.0 | 7.91 | 0.21 | 2.1 | 126 |
| 91594 | | 29.1 | 1.97 | 1.32 | 4.97 | 0.96 | 2.80 | 0.4 | 137 | 149 | 2420 | 7.89 | < 0.1 | 109 | 5.1 | 6.3 | 2.1 | 0.14 | 1.97 | 46.8 | 6.80 | 0.15 | 2.1 | 196 |
| 91595 | | 19.4 | 2.27 | 1.27 | 4.74 | 0.80 | 3.39 | 0.4 | 102 | 58.1 | 2120 | 5.67 | 0.3 | 87.6 | 4.0 | 5.5 | 1.6 | 0.06 | 1.33 | 28.0 | 5.23 | 0.06 | 1.4 | 112 |
| 91596 | < 5 | 19.1 | > 3.00 | 1.69 | 6.33 | 0.91 | 2.87 | 0.5 | 192 | 82.9 | 2680 | 8.31 | 1.8 | 97.7 | 6.2 | 6.6 | 2.6 | 0.08 | 2.29 | 34.3 | 9.14 | 0.11 | 2.0 | 206 |
| 91597 | | 3.1 | 0.15 | 0.37 | 0.52 | 0.19 | 4.61 | 0.3 | 22 | 17.0 | 621 | 1.08 | < 0.1 | 10.4 | 1.5 | 2.6 | 0.6 | < 0.05 | 0.58 | 3.2 | 1.75 | < 0.02 | 0.9 | 33.4 |
| 91598 | | 16.2 | 0.55 | 0.56 | 2.40 | 0.36 | 4.25 | 0.4 | 130 | 32.0 | 1660 | 5.34 | < 0.1 | 26.4 | 5.9 | 14.9 | 2.5 | 0.14 | 0.82 | 18.2 | 7.60 | 0.24 | 1.7 | 51.4 |
| 91599 | 574 | 16.1 | > 3.00 | 1.54 | 5.90 | 0.08 | 1.95 | 0.2 | 231 | 556 | 1690 | 11.3 | 1.1 | 500 | 5.3 | 5.0 | 2.1 | 0.16 | 0.32 | 86.3 | 3.91 | 0.06 | 1.8 | 135 |
| 91600 | | 9.0 | 0.66 | 0.59 | 1.58 | 0.32 | 5.28 | 0.2 | 97 | 44.4 | 1220 | 8.41 | < 0.1 | 30.9 | 5.5 | 1.9 | 2.5 | 0.25 | 1.69 | 9.1 | 8.43 | 0.09 | 2.8 | 71.0 |
| 91601 | | 7.2 | 1.41 | 0.57 | 2.59 | 1.03 | 0.18 | < 0.1 | 91 | 111 | 120 | 25.1 | 2.0 | 47.5 | 0.8 | 1.5 | 0.3 | 0.13 | 1.30 | 8.1 | 1.15 | < 0.02 | 1.5 | 36.0 |
| 91602 | < 5 | 21.0 | 0.95 | 0.98 | 3.53 | 1.33 | 1.88 | 0.3 | 202 | 94.1 | 626 | 16.3 | 0.2 | 56.0 | 3.9 | 4.1 | 1.6 | 0.20 | 4.53 | 12.2 | 3.42 | 0.10 | 1.5 | 120 |
| 91603 | | 32.9 | 2.91 | 1.56 | 5.30 | 0.80 | 1.52 | 0.4 | 79 | 182 | 854 | 10.9 | 1.5 | 114 | 5.1 | 3.8 | 2.2 | 0.14 | 3.07 | 28.6 | 7.59 | < 0.02 | 1.8 | 120 |
| 91604 | | 16.7 | 1.74 | 0.51 | 4.31 | 1.17 | 0.41 | 0.5 | 77 | 220 | 196 | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91605 | < 5 | 6.2 | 0.08 | 0.71 | 0.85 | 0.06 | 5.94 | 0.3 | 95 | 4.8 | 2170 | 3.34 | < 0.1 | 14.0 | 2.5 | 1.8 | 1.0 | 0.19 | 0.22 | 12.8 | 3.82 | 0.06 | 1.2 | 68.1 |
| 91606 | | 33.6 | 1.75 | 2.71 | 5.17 | 1.19 | 2.79 | 0.3 | 114 | 302 | 2080 | 7.79 | 1.9 | 193 | 3.4 | 4.9 | 1.4 | 0.10 | 3.40 | 44.2 | 4.37 | 0.07 | 1.4 | 125 |
| 91607 | | 6.6 | 0.59 | 0.31 | 1.69 | 0.48 | 27.4 | 0.7 | 177 | < 0.5 | 1640 | 2.11 | < 0.1 | 13.7 | 6.9 | 7.1 | 3.1 | 0.20 | 0.55 | 38.8 | 10.9 | 0.27 | 2.6 | 210 |
| 91608 | < 5 | 26.9 | 2.40 | 1.23 | 5.53 | 0.94 | 2.35 | 0.2 | 144 | 72.7 | 669 | 7.75 | < 0.1 | 63.7 | 3.9 | 7.8 | 1.5 | 0.07 | 1.57 | 31.7 | 4.20 | 0.22 | 1.1 | 135 |
| 91609 | | 21.8 | 1.77 | 1.50 | 4.20 | 0.77 | 3.16 | 0.5 | 133 | 37.2 | 2420 | 9.74 | < 0.1 | 102 | 4.2 | 5.9 | 1.8 | 0.12 | 2.29 | 41.8 | 6.64 | 0.16 | 1.3 | 215 |
| 91610 | | 21.3 | 2.17 | 1.09 | 5.38 | 1.04 | 2.48 | 0.3 | 185 | 47.5 | 2200 | 9.18 | < 0.1 | 77.2 | 6.4 | 8.0 | 2.7 | 0.10 | 2.41 | 39.0 | 9.54 | 0.26 | 2.2 | 141 |
| 91611 | < 5 | 35.4 | 2.10 | 1.35 | 5.91 | 1.25 | 1.95 | 0.4 | 94 | 166 | 1400 | 9.43 | < 0.1 | 116 | 5.8 | 6.3 | 2.4 | 0.12 | 1.55 | 36.8 | 9.64 | 0.11 | 1.8 | 157 |
| 91612 | | 65.6 | 1.54 | 1.44 | 6.27 | 1.66 | 1.84 | 0.6 | 95 | 180 | 1420 | 8.47 | 0.3 | 97.0 | 5.5 | 11.3 | 2.4 | 0.13 | 5.36 | 28.2 | 8.04 | 0.42 | 1.8 | 210 |
| 91613 | | 21.7 | 0.31 | 0.91 | 2.01 | 0.29 | 5.98 | 0.9 | 182 | 32.7 | 4160 | 9.52 | < 0.1 | 37.2 | 9.1 | 13.6 | 4.1 | 0.25 | 3.72 | 37.2 | 15.4 | 0.18 | 3.0 | 319 |
| 91614 | < 5 | 25.6 | 2.38 | 1.33 | 6.20 | 1.33 | 2.15 | 0.5 | 87 | 151 | 821 | 6.20 | 2.4 | 84.5 | 3.9 | 7.0 | 1.8 | 0.09 | 2.07 | 22.4 | 5.65 | 0.09 | 1.3 | 95.1 |
| 91615 | | 39.5 | 1.85 | 1.15 | 5.68 | 1.19 | 1.99 | 0.4 | 180 | 108 | 1270 | 10.5 | 1.7 | 52.3 | 4.9 | 10.8 | 2.1 | < 0.05 | 2.54 | 32.6 | 6.55 | 0.21 | 1.9 | 271 |
| 91616 | | 25.2 | 2.47 | 1.33 | 5.27 | 1.26 | 2.31 | 0.3 | 181 | 107 | 916 | 7.07 | 1.3 | 98.8 | 5.1 | 5.8 | 2.2 | 0.07 | 1.79 | 25.7 | 6.97 | 0.08 | 1.9 | 142 |
| 91617 | < 5 | 76.0 | 2.39 | 1.97 | 5.49 | 0.54 | 1.84 | 0.4 | 200 | 216 | 2120 | 9.17 | 3.1 | 118 | 10.0 | 15.8 | 4.4 | < 0.05 | 1.87 | 34.1 | 16.9 | 0.49 | 3.7 | 196 |
| 91618 | | 89.1 | 1.87 | 2.05 | 5.24 | 0.58 | 1.98 | 0.3 | 144 | 216 | 2000 | 9.50 | < 0.1 | 103 | 8.2 | 21.2 | 3.4 | < 0.05 | 6.03 | 33.8 | 10.6 | 0.42 | 2.5 | 203 |
| 91619 | | 26.3 | 1.83 | 2.69 | 4.20 | 0.81 | 7.49 | 0.7 | 160 | 70.5 | 2670 | 9.19 | < 0.1 | 108 | 5.9 | 6.9 | 2.4 | 0.17 | 1.46 | 33.9 | 8.42 | 0.17 | 1.9 | 225 |
| 91620 | < 5 | 66.7 | 0.97 | 0.64 | 5.17 | 0.92 | 3.80 | 1.2 | 197 | 26.9 | 4220 | 10.4 | < 0.1 | 60.5 | 10.1 | 15.7 | 4.0 | 0.14 | 2.39 | 35.6 | 13.6 | 0.39 | 2.6 | 270 |
| 91621 | | 27.9 | > 3.00 | 0.93 | 7.24 | 0.82 | 1.67 | 0.3 | 62 | 93.7 | 676 | 7.50 | 1.5 | 50.1 | 3.0 | 7.0 | 1.2 | 0.09 | 1.60 | 23.7 | 3.72 | 0.08 | 0.9 | 76.8 |
| 91622 | | 84.8 | 2.32 | 1.80 | 6.42 | 0.80 | 1.70 | 0.3 | 69 | 224 | 1450 | 10.1 | 1.8 | 92.0 | 3.2 | 6.8 | 1.3 | < 0.05 | 3.61 | 38.6 | 3.20 | 0.30 | 1.3 | 156 |
| 91623 | < 5 | 40.7 | > 3.00 | 1.28 | 6.85 | 1.06 | 1.60 | 0.1 | 64 | 164 | 1140 | 7.18 | 2.2 | 67.3 | 3.3 | 4.7 | 1.4 | < 0.05 | 1.26 | 27.7 | 4.63 | 0.11 | 1.5 | 84.8 |
| 91624 | | 24.1 | > 3.00 | 0.94 | 6.09 | 0.69 | 1.87 | 0.8 | 62 | 101 | 3060 | 8.82 | 1.3 | 129 | 7.7 | 6.8 | 3.7 | 0.12 | 0.96 | 68.5 | 18.4 | 0.38 | 2.7 | 253 |
| 91625 | | 19.1 | > 3.00 | 1.07 | 6.26 | 1.01 | 1.62 | 0.2 | 46 | 98.3 | 786 | 5.65 | 0.9 | 58.0 | 2.0 | 3.0 | 0.9 | 0.06 | 1.15 | 19.0 | 2.25 | < 0.02 | 0.9 | 52.5 |
| 91626 | < 5 | 16.0 | 2.60 | 1.09 | 5.15 | 0.69 | 2.67 | 0.3 | 129 | 71.9 | 2550 | 8.83 | 3.6 | 59.2 | 5.0 | 3.7 | 2.0 | < 0.05 | 0.63 | 40.7 | 5.52 | 0.03 | 1.7 | 92.0 |
| 91627 | | 25.3 | 2.41 | 1.65 | 6.21 | 0.93 | 2.51 | 0.4 | 91 | 112 | 2460 | 8.75 | 1.9 | 109 | 4.7 | 4.1 | 2.0 | 0.08 | 1.40 | 49.5 | 6.98 | 0.13 | 1.6 | 150 |
| 91628 | | 25.0 | > 3.00 | 1.55 | 7.51 | 0.77 | 2.23 | 0.2 | 65 | 93.3 | 1320 | 7.38 | 1.6 | 72.5 | 3.9 | 3.6 | 1.6 | < 0.05 | 1.16 | 33.6 | 4.75 | 0.03 | 1.4 | 92.8 |
| 91629 | < 5 | 19.7 | 2.81 | 1.61 | 7.33 | 0.26 | 3.42 | 0.1 | 125 | 34.6 | 1070 | 6.07 | 0.9 | 40.8 | 2.8 | 1.8 | 1.0 | 0.09 | 0.67 | 32.4 | 2.19 | < 0.02 | 1.3 | 74.8 |
| 91630 | | 27.8 | 2.80 | 1.62 | 7.09 | 1.09 | 1.77 | 0.4 | 98 | 146 | 1640 | 8.80 | 0.7 | 107 | 5.9 | 5.1 | 2.5 | < 0.05 | 1.61 | 42.9 | 9.58 | 0.12 | 1.7 | 132 |
| 91631 | | 22.2 | > 3.00 | 1.50 | 7.03 | 1.11 | 1.12 | 0.1 | 52 | 124 | 530 | 6.07 | 2.1 | 78.0 | 1.6 | 2.9 | 0.6 | < 0.05 | 1.51 | 23.1 | 1.94 | < 0.02 | 0.5 | 76.6 |
| 91632 | < 5 | 23.3 | > 3.00 | 1.59 | 7.27 | 1.14 | 2.23 | 0.2 | 52 | 107 | 1970 | 7.15 | 2.7 | 111 | 4.4 | 5.1 | 1.8 | 0.09 | 1.21 | 34.7 | 5.86 | 0.12 | 1.5 | 181 |
| 91633 | | 22.8 | 2.99 | 1.47 | 7.23 | 1.69 | 1.83 | 0.1 | 26 | 72.3 | 779 | 5.10 | 2.4 | 61.7 | 1.9 | 2.0 | 0.8 | 0.10 | 1.70 | 23.1 | 1.95 | < 0.02 | 0.8 | 59.2 |
| 91634 | | 31.8 | 2.95 | 2.00 | 7.45 | 1.09 | 1.88 | 0.1 | 51 | 87.2 | 911 | 7.02 | 1.7 | 71.0 | 1.9 | 2.6 | 0.7 | < 0.05 | 1.50 | 34.9 | 1.74 | < 0.02 | 0.7 | 77.1 |
| 91635 | < 5 | 33.4 | 2.24 | 1.84 | 6.54 | 1.98 | 1.66 | 0.2 | 118 | 148 | 631 | 4.78 | 4.3 | 83.4 | 1.6 | 1.6 | 0.6 | 0.06 | 2.14 | 19.8 | 1.17 | 0.03 | 1.0 | 77.1 |
| 91636 | | 31.4 | 2.12 | 1.41 | 6.41 | 1.92 | 1.98 | 0.3 | 88 | 87.8 | 525 | 3.97 | 3.7 | 65.4 | 1.5 | 1.5 | 0.6 | 0.12 | 2.29 | 18.6 | 1.25 | < 0.02 | 2.6 | 77.3 |
| 91637 | | 41.8 | 2.29 | 2.53 | 9.09 | 0.48 | 3.37 | 0.2 | 93 | 38.7 | 1510 | 9.49 | 0.4 | 91.3 | 2.3 | 1.5 | 0.9 | 0.05 | 1.18 | 62.5 | 2.23 | < 0.02 | 1.0 | 101 |
| 91638 | < 5 | 25.2 | 2.56 | 1.54 | 6.96 | 2.73 | 1.82 | 0.1 | 80 | 99.2 | 764 | 4.75 | 3.7 | 66.7 | 1.7 | 1.8 | 0.6 | 0.07 | 1.99 | 22.0 | 1.58 | 0.02 | 0.9 | 66.4 |
| 91639 | | 26.0 | 2.48 | 1.48 | 7.37 | 1.72 | 1.56 | 0.1 | 53 | 81.4 | 682 | 4.81 | 3.1 | 59.5 | 1.4 | 1.5 | 0.5 | 0.06 | 2.02 | 20.8 | 1.30 | < 0.02 | 0.6 | 56.9 |
| 91640 | | 28.0 | 2.72 | 1.51 | 8.15 | 1.67 | 1.51 | 0.2 | 43 | 68.0 | 762 | 5.56 | 2.5 | 59.8 | 1.5 | 1.9 | 0.6 | < 0.05 | 1.97 | 25.7 | 1.66 | 0.03 | 0.7 | 83.6 |
| 91641 | < 5 | 23.4 | 2.77 | 1.54 | 7.52 | 1.76 | 1.75 | 0.1 | 54 | 74.3 | 796 | 5.02 | 3.6 | 60.0 | 1.7 | 1.8 | 0.6 | < 0.05 | 1.69 | 20.7 | 1.58 | < 0.02 | 0.8 | 56.3 |
| 91642 | | 25.9 | 2.73 | 1.28 | 7.67 | 1.96 | 1.39 | 0.1 | 50 | 85.2 | 522 | 4.57 | 3.8 | 56.6 | 1.4 | 1.8 | 0.5 | < 0.05 | 1.90 | 16.8 | 1.33 | < 0.02 | 0.4 | 55.3 |
| 91643 | | 31.7 | 2.41 | 1.30 | 7.50 | 2.07 | 1.27 | 0.2 | 40 | 86.8 | 559 | 4.75 | 3.0 | 59.5 | 1.3 | 1.8 | 0.5 | < 0.05 | 2.52 | 19.3 | 1.11 | 0.03 | 0.6 | 67.2 |
| 91644 | < 5 | 25.3 | 2.60 | 1.40 | 6.87 | 1.92 | 1.62 | 0.1 | 56 | 85.2 | 635 | 4.34 | 3.4 | 64.6 | 1.5 | 1.8 | 0.6 | 0.06 | 1.94 | 17.6 | 1.37 | < 0.02 | 0.6 | 58.3 |
| 91645 | | 24.6 | 2.58 | 1.25 | 5.87 | 1.90 | 1.40 | 0.1 | 99 | 110 | 514 | 4.14 | 5.3 | 60.4 | 1.4 | 1.9 | 0.5 | < 0.05 | 1.87 | 16.1 | 1.10 | < 0.02 | 0.8 | 56.7 |
| 91646 | | 23.6 | 2.70 | 1.18 | 6.39 | 1.55 | 1.49 | 0.1 | 89 | 165 | 577 | 5.17 | 5.2 | 49.2 | 1.5 | 1.6 | 0.6 | 0.06 | 1.28 | 15.9 | 1.18 | < 0.02 | 0.8 | 48.7 |
| 91647 | < 5 | 18.6 | 2.47 | 1.01 | 6.58 | 1.09 | 1.98 | 0.2 | 60 | 53.1 | 476 | 4.51 | 2.1 | 40.0 | 1.5 | 1.5 | 0.6 | 0.10 | 1.54 | 15.9 | 1.34 | < 0.02 | 0.8 | 45.2 |
| 91648 | | 26.5 | 2.82 | 1.40 | 7.09 | 1.81 | 1.43 | 0.1 | 74 | 94.9 | 672 | 4.41 | 3.5 | 64.2 | 1.7 | 2.1 | 0.6 | 0.05 | 1.93 | 18.8 | 1.51 | < 0.02 | 0.7 | 63.1 |
| 91649 | | 22.9 | 2.94 | 1.43 | 7.15 | 1.84 | 1.43 | 0.1 | 71 | 102 | 616 | 4.31 | 4.2 | 60.8 | 1.6 | 1.9 | 0.6 | < 0.05 | 1.75 | 16.8 | 1.45 | < 0.02 | 0.7 | 54.6 |
| 91650 | < 5 | 27.1 | 2.96 | 1.83 | 7.41 | 1.85 | 1.27 | < 0.1 | 51 | 128 | 592 | 4.92 | 2.8 | 85.1 | 1.5 | 2.3 | 0.6 | < 0.05 | 2.13 | 19.8 | 1.65 | < 0.02 | 0.7 | 72.3 |
| 91651 | | 26.4 | > 3.00 | 1.87 | 7.57 | 1.80 | 1.39 | 0.1 | 55 | 128 | 906 | 5.50 | 2.1 | 96.7 | 1.9 | 3.2 | 0.7 | < 0.05 | 2.22 | 25.8 | 2.28 | < 0.02 | 0.6 | 84.2 |
| 91652 | | 27.1 | > 3.00 | 1.86 | 7.39 | 1.92 | 1.40 | < 0.1 | 49 | 137 | 671 | 5.40 | 2.4 | 95.3 | 1.8 | 3.1 | 0.7 | < 0.05 | 2.15 | 22.7 | 2.23 | < 0.02 | 0.6 | 80.1 |
| 91653 | < 5 | 26.9 | > 3.00 | 1.80 | 7.24 | 1.88 | 1.45 | 0.1 | 50 | 128 | 989 | 5.64 | 1.9 | 103 | 2.0 | 3.3 | 0.8 | < 0.05 | 2.10 | 27.3 | 2.43 | < 0.02 | 0.7 | 81.1 |
| 91654 | | 29.5 | 2.95 | 1.95 | 7.03 | 1.78 | 1.39 | 0.1 | 55 | 149 | 869 | 5.91 | 1.9 | 120 | 2.1 | 4.3 | 0.9 | < 0.05 | 2.14 | 29.0 | 2.52 | < 0.02 | 0.8 | 85.7 |
| 91655 | | 26.1 | > 3.00 | 1.58 | 6.91 | 1.41 | 1.32 | 0.1 | 55 | 151 | 1110 | 6.52 | 1.8 | 116 | 2.8 | 5.6 | 1.1 | < 0.05 | 1.67 | 29.8 | 3.47 | < 0.02 | 0.9 | 87.7 |
| 91656 | < 5 | 28.4 | 2.46 | 2.01 | 5.23 | 0.90 | 2.09 | 0.2 | 182 | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91657 | | 27.2 | 2.57 | 1.47 | 5.24 | 1.16 | 1.92 | 0.2 | 110 | 128 | 967 | 4.84 | 0.5 | 91.3 | 3.3 | 4.7 | 1.4 | 0.06 | 1.64 | 26.4 | 4.37 | 0.05 | 0.9 | 136 |
| 91658 | | 14.5 | 1.30 | 1.00 | 3.35 | 0.59 | 3.78 | 0.2 | 88 | 84.6 | 671 | 3.20 | < 0.1 | 57.7 | 1.6 | 1.6 | 0.6 | < 0.05 | 0.93 | 15.8 | 1.79 | < 0.02 | 1.1 | 65.3 |
| 91659 | < 5 | 26.1 | > 3.00 | 2.27 | 7.65 | 1.06 | 1.94 | 0.2 | 69 | 171 | 1490 | 7.58 | 2.2 | 151 | 3.5 | 4.1 | 1.4 | < 0.05 | 1.50 | 46.0 | 4.95 | 0.03 | 1.1 | 111 |
| 91660 | | 24.4 | > 3.00 | 1.76 | 7.59 | 0.92 | 1.84 | 0.2 | 42 | 123 | 1230 | 7.49 | 1.6 | 95.7 | 3.5 | 4.7 | 1.4 | < 0.05 | 1.28 | 35.5 | 4.38 | 0.02 | 1.0 | 95.8 |
| 91661 | | 22.5 | > 3.00 | 1.76 | 7.17 | 1.48 | 1.45 | 0.1 | 49 | 144 | 835 | 5.83 | 2.3 | 99.8 | 1.9 | 3.6 | 0.8 | < 0.05 | 1.82 | 27.2 | 2.45 | < 0.02 | 0.4 | 83.7 |
| 91662 | < 5 | 33.4 | 2.63 | 1.67 | 7.41 | 1.37 | 1.29 | 0.1 | 70 | 170 | 958 | 7.93 | 3.4 | 89.8 | 2.6 | 4.9 | 1.0 | 0.05 | 2.14 | 32.2 | 2.84 | 0.09 | 0.6 | 100 |
| 91663 | | 23.1 | > 3.00 | 1.41 | 6.91 | 1.00 | 1.48 | < 0.1 | 46 | 132 | 745 | 7.97 | 2.7 | 72.9 | 2.3 | 3.6 | 0.9 | < 0.05 | 1.40 | 24.5 | 2.17 | 0.06 | 0.7 | 87.8 |
| 91664 | | 26.4 | 2.48 | 1.61 | 5.72 | 0.72 | 1.91 | 0.4 | 72 | 88.6 | 1010 | 6.88 | 1.6 | 74.3 | 3.1 | 10.6 | 1.2 | 0.05 | 1.67 | 30.0 | 3.09 | 0.19 | 0.6 | 134 |
| 91665 | < 5 | 17.8 | 2.36 | 1.15 | 4.48 | 0.82 | 2.46 | 0.5 | 133 | 128 | 2160 | 4.65 | 3.1 | 82.1 | 2.2 | 3.4 | 0.9 | < 0.05 | 1.76 | 24.9 | 2.76 | < 0.02 | 1.1 | 94.3 |
| 91666 | | 40.9 | > 3.00 | 1.50 | 6.09 | 0.98 | 1.46 | 0.3 | 122 | 153 | 1590 | 8.19 | 1.4 | 95.4 | 3.6 | 6.3 | 1.4 | < 0.05 | 1.53 | 47.4 | 4.07 | 0.08 | 1.0 | 158 |
| 91667 | | 32.7 | > 3.00 | 1.98 | 6.82 | 1.30 | 1.68 | 0.2 | 105 | 139 | 1780 | 7.13 | 0.1 | 130 | 4.2 | 5.8 | 1.7 | 0.08 | 2.12 | 35.0 | 6.46 | 0.09 | 1.2 | 135 |
| 91668 | < 5 | 35.6 | > 3.00 | 1.91 | 6.47 | 1.21 | 2.22 | 0.9 | 111 | 171 | 2660 | 8.58 | 0.4 | 144 | 4.7 | 6.6 | 2.0 | 0.06 | 2.26 | 43.0 | 7.78 | 0.14 | 1.6 | 186 |
| 91669 | | 25.4 | > 3.00 | 1.57 | 6.81 | 1.16 | 1.45 | 0.2 | 62 | 161 | 1330 | 6.75 | 1.2 | 100 | 2.8 | 4.6 | 1.2 | < 0.05 | 1.82 | 29.1 | 4.46 | 0.02 | 1.2 | 94.9 |
| 91670 | | 25.8 | 1.72 | 1.30 | 4.45 | 0.96 | 2.71 | 0.5 | 103 | 130 | 1960 | 5.89 | 0.6 | 97.5 | 3.1 | 4.4 | 1.3 | < 0.05 | 1.74 | 28.2 | 4.30 | 0.11 | 1.1 | 140 |
| 91671 | < 5 | 26.9 | > 3.00 | 1.44 | 6.14 | 1.23 | 2.12 | 0.4 | 113 | 155 | 2080 | 6.81 | 3.4 | 110 | 3.7 | 4.9 | 1.6 | 0.07 | 1.84 | 35.7 | 4.77 | 0.06 | 1.3 | 134 |
| 91672 | | 17.4 | > 3.00 | 0.92 | 6.02 | 1.32 | 1.05 | 0.2 | 28 | 116 | 526 | 5.17 | 2.4 | 66.3 | 1.4 | 3.3 | 0.5 | < 0.05 | 1.53 | 18.5 | 1.62 | < 0.02 | 0.4 | 66.5 |
| 91673 | | 20.7 | 0.93 | 1.02 | 2.44 | 0.55 | 4.34 | 0.6 | 93 | 24.7 | 2240 | 4.96 | < 0.1 | 64.7 | 4.3 | 4.6 | 1.8 | 0.08 | 1.17 | 22.2 | 5.43 | 0.08 | 1.1 | 192 |
| 91674 | < 5 | 21.3 | > 3.00 | 1.11 | 4.54 | 1.16 | 1.41 | 0.2 | 147 | 166 | 665 | 4.90 | 4.1 | 87.0 | 1.5 | 4.4 | 0.6 | < 0.05 | 1.49 | 20.2 | 1.55 | < 0.02 | 0.7 | 77.8 |
| 91675 | | 18.1 | 0.90 | 0.61 | 2.74 | 0.60 | 5.35 | 0.9 | 211 | 71.1 | 2220 | 3.46 | < 0.1 | 58.9 | 5.2 | 4.9 | 2.1 | 0.17 | 1.60 | 28.8 | 6.39 | 0.09 | 2.0 | 110 |
| 91676 | | 27.9 | 2.65 | 1.22 | 5.57 | 0.93 | 2.20 | 0.3 | 158 | 113 | 1450 | 6.84 | 1.1 | 78.3 | 4.8 | 7.6 | 2.0 | < 0.05 | 1.67 | 28.5 | 6.75 | 0.08 | 1.4 | 102 |
| 91677 | < 5 | 13.8 | 0.34 | 3.93 | 1.90 | 0.45 | 12.1 | 0.6 | 285 | 35.4 | 4250 | 13.0 | < 0.1 | 47.1 | 8.8 | 13.1 | 3.6 | < 0.05 | 0.78 | 57.9 | 12.9 | 0.19 | 2.5 | 251 |
| 91678 | | 26.0 | 0.50 | 1.95 | 4.35 | 1.42 | 7.13 | 0.5 | 484 | 52.0 | 1280 | 14.7 | < 0.1 | 46.2 | 15.1 | 29.8 | 6.6 | 0.05 | 1.01 | 58.3 | 28.3 | 0.32 | 4.3 | 298 |
| 91679 | | 21.5 | 2.62 | 2.65 | 5.69 | 1.23 | 5.30 | 0.5 | 170 | 134 | 2400 | 8.33 | 1.8 | 120 | 5.1 | 7.3 | 2.2 | 0.07 | 1.77 | 39.3 | 7.69 | 0.15 | 1.4 | 170 |
| 91680 | < 5 | 30.3 | 2.94 | 1.66 | 6.56 | 1.18 | 1.49 | 0.2 | 81 | 152 | 1590 | 8.46 | 0.2 | 125 | 3.4 | 5.8 | 1.5 | 0.07 | 2.34 | 40.1 | 5.80 | 0.09 | 1.1 | 110 |
| 91681 | | 2.3 | 0.10 | 0.19 | 0.31 | 0.08 | 2.07 | 0.6 | 13 | 8.6 | 96 | 0.65 | 0.3 | 7.0 | 0.2 | 0.3 | < 0.1 | < 0.05 | 0.29 | 1.8 | 0.28 | < 0.02 | 0.2 | 126 |
| 91682 | | 24.7 | 2.95 | 1.67 | 6.14 | 1.34 | 1.29 | 0.4 | 56 | 128 | 1050 | 7.12 | 1.8 | 94.9 | 2.7 | 4.4 | 1.1 | 0.07 | 1.70 | 30.6 | 3.87 | 0.04 | 0.7 | 216 |
| 91683 | < 5 | 25.1 | > 3.00 | 1.54 | 6.29 | 1.32 | 1.28 | < 0.1 | 47 | 180 | 912 | 5.33 | 2.3 | 133 | 1.8 | 4.1 | 0.7 | < 0.05 | 1.71 | 27.4 | 2.23 | < 0.02 | 0.7 | 72.3 |
| 91684 | | 18.8 | 2.43 | 0.98 | 4.88 | 1.41 | 0.65 | 0.7 | 173 | 205 | 429 | 7.57 | 4.7 | 76.4 | 2.0 | 4.6 | 0.7 | 0.10 | 3.09 | 17.8 | 1.85 | 0.08 | 1.1 | 86.1 |
| 91685 | | 11.4 | > 3.00 | 0.99 | 6.09 | 1.33 | 0.75 | 0.2 | 67 | 124 | 264 | 4.74 | 2.6 | 71.2 | 1.0 | 2.8 | 0.4 | 0.07 | 1.86 | 14.4 | 1.30 | < 0.02 | 0.5 | 51.3 |
| 91686 | < 5 | 13.6 | 1.28 | 0.62 | 3.77 | 1.21 | 0.84 | 0.4 | 144 | 126 | 225 | 11.5 | < 0.1 | 61.5 | 2.9 | 3.6 | 1.1 | 0.85 | 2.98 | 10.2 | 3.15 | 0.22 | 1.9 | 87.3 |
| 91687 | | 29.3 | > 3.00 | 2.33 | 6.77 | 1.68 | 1.21 | 0.2 | 79 | 224 | 1240 | 7.02 | 2.5 | 170 | 2.6 | 5.1 | 1.0 | 0.07 | 2.42 | 37.6 | 3.26 | 0.03 | 0.9 | 109 |
| 91688 | | 23.0 | > 3.00 | 2.03 | 6.60 | 1.49 | 1.20 | 2.5 | 79 | 210 | 1580 | 6.02 | < 0.1 | 190 | 2.1 | 4.7 | 0.8 | < 0.05 | 2.72 | 37.2 | 3.15 | < 0.02 | 0.8 | 246 |
| 91689 | < 5 | 25.8 | > 3.00 | 2.31 | 6.59 | 1.69 | 1.35 | 0.2 | 47 | 197 | 1100 | 6.68 | 0.9 | 164 | 2.4 | 4.5 | 1.0 | 0.06 | 2.30 | 35.9 | 3.13 | < 0.02 | 0.7 | 91.0 |
| 91690 | | 31.4 | 2.60 | 2.36 | 7.21 | 1.96 | 1.35 | 0.2 | 39 | 166 | 947 | 6.52 | 1.2 | 147 | 2.2 | 4.0 | 0.9 | < 0.05 | 2.61 | 31.8 | 2.96 | < 0.02 | 0.7 | 103 |
| 91691 | | < 0.5 | 0.09 | 0.03 | 0.15 | 0.10 | 0.02 | < 0.1 | 77 | 17.1 | 96 | 41.0 | 0.2 | 3.5 | 0.1 | < 0.1 | < 0.1 | 0.15 | 0.29 | 0.9 | 0.33 | < 0.02 | 0.5 | 20.6 |
| 91692 | < 5 | 22.3 | 2.65 | 1.30 | 6.47 | 1.47 | 1.75 | 0.1 | 59 | 98.6 | 1050 | 5.56 | 0.5 | 73.7 | 2.4 | 2.8 | 1.0 | < 0.05 | 1.35 | 24.4 | 3.11 | < 0.02 | 0.7 | 78.5 |
| 91693 | | 17.2 | 2.23 | 1.20 | 6.12 | 1.37 | 1.69 | 0.1 | 51 | 110 | 943 | 7.73 | 1.6 | 42.7 | 1.9 | 1.6 | 0.7 | < 0.05 | 1.52 | 20.9 | 1.15 | < 0.02 | 0.6 | 60.3 |
| 91694 | | 27.5 | 2.18 | 1.18 | 5.09 | 1.62 | 1.29 | 0.1 | 90 | 97.7 | 555 | 3.96 | 3.5 | 54.3 | 1.1 | 1.7 | 0.4 | < 0.05 | 1.54 | 16.6 | 0.86 | < 0.02 | 0.4 | 48.8 |
| 91695 | < 5 | 28.9 | 2.39 | 1.34 | 6.18 | 1.62 | 1.50 | 0.2 | 84 | 99.2 | 780 | 5.16 | 3.2 | 63.0 | 1.5 | 1.8 | 0.6 | 0.07 | 2.11 | 23.2 | 1.25 | < 0.02 | 0.7 | 70.1 |
| 91696 | | 21.2 | 2.26 | 1.11 | 5.88 | 1.53 | 1.34 | 0.1 | 70 | 80.1 | 400 | 3.57 | 2.8 | 48.5 | 1.4 | 1.8 | 0.5 | 0.18 | 2.13 | 13.7 | 1.39 | < 0.02 | 0.8 | 57.6 |
| 91697 | | 24.6 | 2.55 | 1.24 | 6.31 | 1.83 | 1.68 | 0.1 | 68 | 86.1 | 513 | 4.22 | 3.6 | 54.7 | 1.6 | 1.9 | 0.6 | 0.07 | 1.87 | 15.3 | 1.38 | < 0.02 | 0.4 | 61.1 |
| 91698 | < 5 | 30.1 | 2.38 | 1.51 | 6.66 | 1.88 | 1.62 | 0.1 | 59 | 102 | 644 | 4.23 | 1.9 | 67.7 | 1.5 | 2.0 | 0.6 | 0.10 | 2.26 | 17.6 | 1.45 | 0.04 | 0.9 | 73.8 |
| 91699 | | 28.9 | 2.75 | 2.24 | 7.35 | 0.99 | 2.39 | 0.4 | 64 | 145 | 2300 | 9.92 | 1.1 | 152 | 4.8 | 3.3 | 1.9 | 0.10 | 1.29 | 57.3 | 6.29 | 0.07 | 1.4 | 155 |
| 91700 | | 21.6 | > 3.00 | 1.74 | 6.95 | 0.81 | 1.48 | 0.3 | 45 | 160 | 1370 | 7.99 | 2.0 | 110 | 3.5 | 3.4 | 1.5 | < 0.05 | 1.15 | 41.2 | 5.34 | < 0.02 | 0.9 | 104 |
| 91701 | < 5 | 25.5 | 2.86 | 1.85 | 7.04 | 1.14 | 1.90 | 0.1 | 55 | 161 | 1020 | 6.69 | 2.0 | 104 | 2.9 | 3.6 | 1.2 | < 0.05 | 1.81 | 31.0 | 3.70 | < 0.02 | 0.8 | 99.3 |
| 91702 | | 29.8 | 2.63 | 1.63 | 5.71 | 1.08 | 1.99 | 0.3 | 187 | 188 | 1120 | 7.07 | 6.3 | 86.5 | 2.8 | 5.0 | 1.0 | < 0.05 | 1.33 | 32.8 | 2.82 | 0.13 | 1.7 | 165 |
| 91703 | | 12.0 | > 3.00 | 1.15 | 6.94 | 1.17 | 1.38 | 0.3 | 70 | 105 | 426 | 5.76 | 2.6 | 49.9 | 1.8 | 3.3 | 0.6 | 0.06 | 1.69 | 14.1 | 1.86 | 0.04 | 0.9 | 64.9 |
| 91704 | < 5 | 25.9 | 2.78 | 2.26 | 6.59 | 1.74 | 2.63 | 0.2 | 69 | 133 | 808 | 5.28 | 2.4 | 99.4 | 2.2 | 3.1 | 0.8 | 0.06 | 1.77 | 24.8 | 2.68 | < 0.02 | 0.9 | 88.3 |
| 91705 | | 21.5 | > 3.00 | 1.98 | 6.12 | 1.49 | 2.82 | 0.2 | 54 | 112 | 1100 | 5.04 | 2.4 | 87.6 | 2.2 | 3.3 | 0.9 | 0.05 | 1.46 | 21.1 | 2.67 | < 0.02 | 1.6 | 73.5 |
| 91706 | | 22.0 | 3.00 | 1.47 | 6.05 | 1.18 | 1.97 | 0.2 | 57 | 138 | 923 | 6.44 | 1.8 | 91.6 | 2.8 | 4.7 | 1.1 | 0.07 | 1.43 | 23.7 | 3.53 | < 0.02 | 1.6 | 104 |
| 91707 | < 5 | 28.1 | 2.51 | 1.87 | 5.41 | 1.19 | 5.24 | 0.4 | 76 | 116 | 2150 | 7.64 | 0.9 | 121 | 4.9 | 5.2 | 2.1 | 0.09 | 1.59 | 39.3 | 8.04 | 0.17 | 1.7 | 172 |
| 91708 | | 21.7 | > 3.00 | 0.86 | 6.04 | 1.03 | 0. | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91709 | | 55.3 | 2.36 | 2.03 | 5.43 | 1.20 | 1.91 | 0.6 | 109 | 253 | 3950 | 9.93 | 1.9 | 226 | 7.2 | 8.6 | 3.2 | 0.07 | 2.52 | 47.1 | 13.6 | 0.41 | 2.2 | 246 |
| 91710 | < 5 | 44.8 | 0.93 | 1.05 | 3.57 | 0.72 | 3.99 | 1.3 | 192 | 50.7 | 3740 | 10.3 | < 0.1 | 99.3 | 6.9 | 9.0 | 2.9 | 0.24 | 2.21 | 47.5 | 9.51 | 0.19 | 2.0 | 193 |
| 91711 | | 22.8 | 1.46 | 2.62 | 2.92 | 0.48 | 12.0 | 0.8 | 129 | 76.6 | 4650 | 10.3 | < 0.1 | 69.3 | 8.3 | 8.9 | 3.6 | 0.19 | 1.52 | 32.7 | 12.2 | 0.28 | 2.5 | 218 |
| 91712 | | 27.9 | 2.85 | 1.24 | 5.67 | 1.07 | 2.16 | 0.7 | 128 | 111 | 2310 | 8.41 | 0.5 | 108 | 6.3 | 7.5 | 2.6 | 0.08 | 1.45 | 35.0 | 9.44 | 0.10 | 1.6 | 187 |
| 91713 | < 5 | 27.3 | 2.74 | 1.57 | 4.63 | 0.87 | 3.35 | 0.5 | 175 | 106 | 2340 | 7.95 | 2.8 | 114 | 6.7 | 6.2 | 2.7 | 0.06 | 1.42 | 37.4 | 9.52 | 0.14 | 1.6 | 207 |
| 91714 | | 46.7 | 2.46 | 1.50 | 5.98 | 0.91 | 1.70 | 0.4 | 144 | 132 | 1090 | 7.71 | 0.4 | 113 | 6.6 | 7.5 | 2.9 | < 0.05 | 1.67 | 39.5 | 11.7 | 0.11 | 1.7 | 137 |
| 91715 | | 26.1 | > 3.00 | 1.77 | 6.82 | 1.59 | 1.70 | 0.2 | 100 | 158 | 762 | 6.14 | 0.7 | 114 | 3.2 | 4.1 | 1.2 | 0.07 | 1.92 | 23.7 | 4.19 | 0.04 | 0.9 | 108 |
| 91716 | < 5 | 23.3 | > 3.00 | 1.91 | 6.21 | 1.11 | 2.70 | 0.3 | 120 | 154 | 1820 | 7.90 | 0.7 | 121 | 4.3 | 6.9 | 1.7 | < 0.05 | 1.58 | 36.7 | 5.77 | 0.07 | 1.5 | 130 |
| 91717 | | 25.3 | > 3.00 | 1.80 | 7.28 | 1.45 | 1.31 | < 0.1 | 56 | 163 | 590 | 5.80 | 2.2 | 122 | 1.9 | 3.8 | 0.7 | < 0.05 | 2.08 | 25.9 | 2.60 | < 0.02 | 0.8 | 82.4 |
| 91718 | | 35.3 | 0.50 | 1.58 | 2.85 | 0.57 | 5.97 | 0.6 | 359 | 65.3 | 3740 | 14.6 | 0.3 | 62.5 | 8.0 | 12.8 | 3.4 | 0.12 | 1.59 | 59.1 | 13.0 | 0.30 | 2.3 | 218 |
| 91719 | < 5 | 15.4 | 0.41 | 5.38 | 1.98 | 0.76 | 17.9 | 0.7 | 85 | 15.8 | 3750 | 7.40 | < 0.1 | 27.0 | 8.9 | 8.7 | 3.9 | 0.11 | 1.11 | 20.1 | 15.0 | 0.30 | 2.5 | 210 |
| 91720 | | 25.8 | > 3.00 | 1.74 | 6.56 | 1.23 | 1.72 | 0.3 | 79 | 164 | 2050 | 8.67 | 2.3 | 127 | 3.7 | 6.3 | 1.5 | 0.09 | 2.12 | 38.5 | 5.36 | 0.07 | 1.3 | 117 |
| 91721 | | 28.0 | > 3.00 | 2.01 | 7.31 | 1.42 | 1.21 | 0.2 | 54 | 179 | 831 | 6.77 | 2.8 | 144 | 1.9 | 4.4 | 0.8 | 0.08 | 2.16 | 35.0 | 2.35 | < 0.02 | 0.7 | 96.2 |
| 91722 | 19 | 27.7 | 0.77 | 2.93 | 4.74 | 2.24 | 5.79 | 0.5 | 121 | 78.3 | 1300 | 6.34 | 3.8 | 63.9 | 3.1 | 3.5 | 1.2 | 0.09 | 2.04 | 23.6 | 3.08 | 0.20 | 1.1 | 137 |
| 91723 | | 10.6 | 1.12 | 0.84 | 3.06 | 0.91 | 4.38 | 0.3 | 70 | 155 | 210 | 2.02 | 2.0 | 44.4 | 1.2 | 1.6 | 0.4 | 0.06 | 0.88 | 11.4 | 1.29 | < 0.02 | 3.9 | 29.4 |
| 91724 | | 24.5 | > 3.00 | 1.85 | 6.21 | 1.22 | 1.15 | 0.1 | 87 | 189 | 1640 | 7.45 | 2.9 | 157 | 3.0 | 5.9 | 1.2 | 0.06 | 2.11 | 39.3 | 3.55 | < 0.02 | 1.0 | 93.7 |
| 91725 | < 5 | 25.1 | > 3.00 | 1.86 | 6.33 | 1.47 | 1.17 | 0.1 | 82 | 213 | 947 | 6.40 | 2.6 | 173 | 2.1 | 5.0 | 0.8 | < 0.05 | 2.21 | 33.4 | 2.57 | < 0.02 | 0.5 | 78.9 |
| 91751 | | 26.1 | > 3.00 | 1.91 | 6.26 | 0.99 | 0.73 | 0.1 | 64 | 208 | 1020 | 8.50 | 2.2 | 130 | 1.6 | 3.6 | 0.7 | < 0.05 | 1.89 | 43.1 | 4.12 | < 0.02 | 0.4 | 93.2 |
| 91752 | | 28.4 | 2.01 | 2.14 | 5.47 | 1.43 | 1.71 | 0.2 | 78 | 213 | 2350 | 7.61 | 0.3 | 159 | 3.3 | 5.1 | 1.3 | 0.08 | 2.34 | 39.5 | 3.49 | 0.04 | 1.3 | 122 |
| 91753 | < 5 | 23.8 | > 3.00 | 1.80 | 7.26 | 1.12 | 1.70 | 0.2 | 44 | 87.9 | 986 | 6.53 | 1.8 | 72.9 | 1.8 | 2.5 | 0.7 | < 0.05 | 1.29 | 34.1 | 1.81 | < 0.02 | 0.7 | 80.2 |
| 91754 | | 23.6 | > 3.00 | 1.73 | 7.91 | 1.09 | 1.68 | 0.2 | 45 | 91.2 | 1050 | 7.34 | 1.8 | 81.3 | 2.3 | 2.6 | 0.9 | < 0.05 | 1.23 | 37.5 | 2.86 | < 0.02 | 1.0 | 91.3 |
| 91755 | | 26.9 | 2.92 | 2.10 | 7.67 | 1.35 | 1.71 | 0.2 | 61 | 142 | 1270 | 6.68 | 2.5 | 79.9 | 2.5 | 2.7 | 1.0 | < 0.05 | 1.53 | 31.4 | 3.16 | < 0.02 | 0.9 | 91.4 |
| 91756 | < 5 | 23.4 | 2.80 | 1.71 | 7.22 | 1.66 | 1.64 | 0.1 | 65 | 102 | 895 | 5.62 | 3.0 | 78.0 | 2.3 | 2.3 | 0.9 | < 0.05 | 1.71 | 24.7 | 2.73 | < 0.02 | 0.8 | 78.1 |
| 91757 | | 20.6 | 2.82 | 1.33 | 7.18 | 2.23 | 1.51 | 0.1 | 52 | 81.1 | 760 | 4.50 | 3.3 | 59.4 | 1.7 | 2.0 | 0.7 | < 0.05 | 1.66 | 18.6 | 1.85 | 0.03 | 0.6 | 62.5 |
| 91758 | | 25.8 | 2.27 | 1.40 | 6.53 | 1.70 | 1.42 | 0.2 | 95 | 112 | 787 | 5.11 | 4.2 | 69.5 | 1.6 | 2.7 | 0.6 | 0.08 | 2.13 | 20.8 | 1.71 | 0.06 | 0.5 | 74.0 |
| 91759 | < 5 | 26.4 | 2.54 | 1.39 | 6.56 | 1.79 | 1.54 | 0.1 | 85 | 114 | 716 | 5.06 | 3.5 | 73.2 | 1.9 | 3.2 | 0.8 | < 0.05 | 1.76 | 20.9 | 2.03 | < 0.02 | 0.8 | 66.0 |
| 91760 | | 26.9 | 2.62 | 1.47 | 6.53 | 1.95 | 1.58 | 0.1 | 64 | 95.4 | 604 | 4.89 | 2.4 | 80.3 | 2.1 | 2.8 | 0.8 | 0.05 | 2.07 | 20.2 | 2.24 | < 0.02 | 0.8 | 78.6 |
| 91761 | | 27.2 | 2.57 | 1.39 | 6.38 | 1.95 | 1.57 | 0.1 | 59 | 95.9 | 566 | 4.72 | 2.6 | 75.2 | 1.8 | 2.5 | 0.7 | 0.07 | 2.06 | 18.8 | 1.77 | < 0.02 | 0.5 | 76.8 |
| 91762 | < 5 | 25.9 | 2.70 | 1.83 | 7.14 | 1.80 | 1.86 | 0.2 | 71 | 143 | 1230 | 6.18 | 2.7 | 96.0 | 2.5 | 2.4 | 0.9 | 0.08 | 1.95 | 27.3 | 2.99 | 0.06 | 0.5 | 99.6 |
| 91763 | | 26.7 | 2.87 | 1.73 | 7.38 | 1.95 | 1.49 | 0.1 | 71 | 161 | 617 | 5.68 | 3.8 | 90.5 | 2.0 | 2.9 | 0.8 | 0.05 | 2.10 | 21.5 | 2.60 | < 0.02 | 0.6 | 91.2 |
| 91764 | | 28.2 | > 3.00 | 1.92 | 7.64 | 2.01 | 1.25 | < 0.1 | 77 | 162 | 369 | 5.81 | 3.6 | 101 | 1.8 | 3.1 | 0.7 | < 0.05 | 2.23 | 25.6 | 2.10 | < 0.02 | 0.7 | 85.0 |
| 91765 | < 5 | 34.0 | 2.92 | 1.97 | 7.08 | 1.66 | 1.32 | 0.2 | 56 | 198 | 1170 | 6.65 | 1.5 | 130 | 2.2 | 4.4 | 0.9 | < 0.05 | 2.03 | 32.3 | 2.93 | < 0.02 | 0.6 | 110 |
| 91766 | | 20.3 | 2.09 | 2.72 | 4.58 | 1.14 | 6.07 | 0.5 | 137 | 129 | 2940 | 8.72 | 4.6 | 94.5 | 5.8 | 3.4 | 2.5 | < 0.05 | 1.41 | 30.1 | 7.43 | 0.13 | 1.4 | 128 |
| 91767 | | 25.3 | > 3.00 | 1.36 | 5.89 | 1.04 | 1.80 | 0.3 | 124 | 154 | 2190 | 7.84 | 1.7 | 144 | 4.7 | 5.5 | 1.9 | < 0.05 | 1.60 | 38.6 | 5.91 | 0.04 | 1.1 | 126 |
| 91768 | < 5 | 45.3 | > 3.00 | 1.27 | 6.14 | 1.08 | 1.00 | 0.3 | 75 | 147 | 1650 | 8.50 | 2.1 | 111 | 3.7 | 6.0 | 1.5 | < 0.05 | 1.60 | 49.1 | 4.38 | 0.08 | 1.4 | 173 |
| 91769 | | 21.2 | 1.66 | 0.93 | 3.73 | 0.74 | 2.88 | 0.2 | 250 | 44.9 | 2370 | 12.4 | < 0.1 | 70.4 | 6.4 | 4.7 | 2.6 | < 0.05 | 1.39 | 36.9 | 6.77 | 0.10 | 1.4 | 237 |
| 91770 | | 34.3 | 2.56 | 1.77 | 6.53 | 1.83 | 1.68 | 0.2 | 71 | 135 | 767 | 5.62 | 1.3 | 103 | 2.9 | 3.5 | 1.1 | 0.08 | 2.18 | 22.3 | 3.48 | 0.04 | 0.8 | 112 |
| 91771 | < 5 | 27.4 | > 3.00 | 1.24 | 5.80 | 1.02 | 1.68 | 0.3 | 84 | 172 | 2250 | 7.69 | 1.2 | 112 | 5.6 | 6.4 | 2.2 | 0.08 | 1.56 | 30.9 | 7.43 | 0.31 | 1.5 | 139 |
| 91772 | | 33.5 | > 3.00 | 2.09 | 7.04 | 1.49 | 3.12 | 0.2 | 175 | 169 | 2090 | 7.61 | 3.3 | 119 | 4.2 | 6.5 | 1.7 | < 0.05 | 2.07 | 32.8 | 5.73 | 0.08 | 1.4 | 134 |
| 91773 | | 17.1 | 1.44 | 3.88 | 2.78 | 0.54 | 16.2 | 0.5 | 108 | 56.3 | 2740 | 7.32 | < 0.1 | 61.8 | 5.6 | 5.7 | 2.3 | 0.13 | 0.83 | 27.7 | 8.69 | 0.14 | 1.8 | 167 |
| 91774 | < 5 | 25.3 | 1.23 | 3.77 | 2.89 | 0.66 | 12.4 | 0.6 | 128 | 57.3 | 3540 | 9.55 | < 0.1 | 60.9 | 8.0 | 8.7 | 3.4 | 0.18 | 1.00 | 27.9 | 12.4 | 0.22 | 2.2 | 219 |
| 91775 | | 42.6 | 1.97 | 7.08 | 6.06 | 1.36 | 24.6 | 0.9 | 276 | 106 | 5440 | 18.1 | 7.4 | 164 | 14.8 | 14.8 | 6.5 | 0.19 | 2.40 | 81.1 | 21.3 | 0.66 | 4.3 | 326 |
| 91776 | | 24.2 | 2.72 | 1.36 | 4.32 | 1.11 | 1.33 | 0.4 | 151 | 172 | 1710 | 7.44 | 4.8 | 127 | 2.6 | 4.6 | 1.1 | < 0.05 | 1.70 | 40.0 | 3.10 | 0.15 | 1.0 | 130 |
| 91777 | < 5 | 20.7 | 2.11 | 1.74 | 4.69 | 0.91 | 4.92 | 0.5 | 164 | 172 | 2110 | 9.18 | 5.5 | 142 | 5.2 | 5.3 | 2.2 | < 0.05 | 1.43 | 37.3 | 7.17 | 0.23 | 1.5 | 182 |
| 91778 | | 36.0 | 0.41 | 0.70 | 3.06 | 0.36 | 2.98 | 0.8 | 145 | 68.1 | 2560 | 15.8 | < 0.1 | 158 | 10.7 | 16.1 | 4.7 | 0.14 | 0.94 | 57.3 | 17.3 | 0.51 | 3.2 | 265 |
| 91779 | | 22.1 | > 3.00 | 1.60 | 6.28 | 1.35 | 1.26 | 0.5 | 58 | 160 | 1060 | 7.12 | 2.0 | 156 | 2.8 | 4.4 | 1.2 | 0.18 | 1.96 | 34.6 | 3.60 | < 0.02 | 1.1 | 157 |
| 91780 | < 5 | 41.1 | 0.29 | 1.34 | 3.52 | 1.08 | 4.37 | 0.3 | 99 | 83.7 | 2510 | 12.3 | < 0.1 | 181 | 4.0 | 5.7 | 1.7 | 0.22 | 1.93 | 95.7 | 6.02 | 0.25 | 1.2 | 163 |
| 91781 | | 24.3 | 2.05 | 2.24 | 4.14 | 0.91 | 8.97 | 0.4 | 85 | 125 | 2190 | 8.36 | 0.6 | 169 | 5.7 | 5.7 | 2.4 | 0.12 | 1.32 | 49.3 | 8.34 | 0.21 | 1.6 | 201 |
| 91782 | | 53.2 | 2.24 | 2.13 | 5.14 | 1.02 | 3.19 | 0.3 | 90 | 184 | 1890 | 7.96 | 0.7 | 130 | 5.2 | 8.2 | 2.1 | 0.07 | 2.12 | 36.1 | 6.69 | 0.14 | 1.5 | 179 |
| 91783 | < 5 | 36.2 | 2.36 | 2.52 | 6.20 | 1.82 | 2.96 | 0.3 | 77 | 165 | 1340 | 5.81 | 1.6 | 145 | 2.8 | 3.6 | 1.1 | 0.12 | 2.03 | 29.2 | 3.46 | 0.10 | 1.1 | 160 |
| 91784 | | 24.2 | 2.48 | 1.44 | 5.33 | 1.17 | 2.33 | 0.3 | 83 | 249 | 1700 | 8.85 | 0.5 | 99.4 | 4.7 | 5.4 | 1.8 | 0.09 | 1.52 | 28.7 | 6.10 | 0.10 | 1.5 | 149 |
| 91785 | | 36.4 | 2.92 | 2.00 | 5.89 | 1.20 | 2.16 | 0.3 | 74 | 252 | 1880 | 7.60 | < 0.1 | 206 | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91786 | < 5 | 52.9 | 2.95 | 2.41 | 6.54 | 1.19 | 0.96 | 0.2 | 67 | 396 | 1740 | 8.27 | 0.5 | 335 | 3.8 | 6.4 | 1.7 | 0.06 | 3.13 | 44.1 | 8.03 | 0.28 | 1.2 | 217 |
| 91787 | | 50.8 | 2.49 | 1.71 | 5.02 | 1.08 | 1.01 | 0.2 | 164 | 396 | 1630 | 7.56 | 4.7 | 169 | 4.2 | 4.1 | 1.7 | < 0.05 | 2.45 | 31.7 | 5.62 | 1.14 | 1.3 | 239 |
| 91788 | | 37.1 | 2.82 | 1.91 | 6.37 | 1.36 | 1.68 | 0.3 | 121 | 207 | 1520 | 7.13 | 4.2 | 136 | 3.3 | 4.3 | 1.3 | 0.17 | 2.03 | 34.8 | 4.85 | 0.21 | 1.3 | 171 |
| 91789 | < 5 | 26.1 | 2.84 | 1.49 | 7.28 | 2.19 | 1.86 | 0.1 | 92 | 104 | 654 | 4.70 | 5.3 | 60.2 | 1.7 | 2.0 | 0.6 | 0.08 | 2.01 | 16.5 | 1.45 | 0.06 | 1.1 | 70.3 |
| 91790 | | 27.9 | 2.66 | 1.61 | 7.36 | 1.80 | 1.96 | 0.3 | 121 | 131 | 1070 | 6.17 | 4.3 | 87.4 | 2.6 | 3.0 | 1.0 | 0.10 | 1.95 | 25.4 | 3.02 | 0.06 | 0.9 | 107 |
| 91791 | | 28.2 | 2.52 | 2.02 | 7.13 | 1.65 | 2.52 | 0.3 | 146 | 145 | 1200 | 7.49 | 3.9 | 113 | 2.8 | 3.0 | 1.1 | 0.07 | 1.81 | 34.9 | 3.64 | 0.06 | 1.2 | 134 |
| 91792 | < 5 | 26.5 | 1.49 | 1.17 | 5.70 | 1.62 | 1.79 | 0.3 | 71 | 90.7 | 1000 | 4.12 | 2.4 | 65.5 | 2.3 | 1.6 | 0.9 | 0.28 | 2.45 | 16.6 | 3.11 | 0.05 | 1.2 | 96.0 |
| 91793 | | 27.4 | > 3.00 | 1.46 | 6.81 | 1.82 | 2.05 | 0.2 | 134 | 114 | 1480 | 6.18 | 4.6 | 71.4 | 2.5 | 3.5 | 1.0 | < 0.05 | 1.74 | 27.1 | 2.62 | 0.06 | 0.7 | 94.0 |
| 91794 | | 25.3 | 2.65 | 1.37 | 5.64 | 1.64 | 1.83 | 0.2 | 117 | 125 | 924 | 5.11 | 4.6 | 74.9 | 2.3 | 2.3 | 0.9 | < 0.05 | 1.69 | 20.4 | 2.43 | 0.02 | 0.5 | 75.1 |
| 91795 | < 5 | 33.4 | 2.31 | 1.31 | 4.86 | 0.99 | 1.73 | 0.3 | 141 | 137 | 1180 | 6.83 | 4.1 | 80.0 | 2.9 | 4.2 | 1.2 | < 0.05 | 1.15 | 28.1 | 3.08 | 0.08 | 0.8 | 116 |
| 91796 | | 25.2 | 2.87 | 1.21 | 5.68 | 1.95 | 1.52 | 0.2 | 95 | 108 | 872 | 4.47 | 4.5 | 61.9 | 1.6 | 2.1 | 0.6 | < 0.05 | 1.50 | 20.5 | 1.28 | < 0.02 | 0.7 | 62.4 |
| 91797 | | 15.4 | 2.71 | 0.88 | 3.85 | 0.80 | 1.19 | 0.2 | 158 | 107 | 576 | 6.03 | 3.7 | 44.0 | 0.9 | 2.5 | 0.3 | < 0.05 | 1.14 | 18.9 | 0.52 | 0.05 | 0.5 | 59.4 |
| 91798 | < 5 | 27.1 | 1.88 | 1.63 | 5.43 | 0.64 | 1.16 | 0.2 | 150 | 84.3 | 1100 | 11.2 | 7.1 | 49.7 | 2.7 | 1.8 | 1.0 | < 0.05 | 0.85 | 28.0 | 2.23 | 0.03 | 0.3 | 149 |
| 91799 | | 24.3 | 1.39 | 1.39 | 4.71 | 0.81 | 6.11 | 0.5 | 207 | 154 | 2340 | 9.37 | < 0.1 | 72.1 | 13.5 | 11.9 | 5.7 | 0.20 | 1.24 | 26.0 | 19.9 | 0.27 | 3.7 | 225 |
| 91800 | | 33.1 | 2.46 | 1.08 | 7.90 | 1.81 | 1.15 | 0.1 | 78 | 75.4 | 503 | 4.36 | 5.0 | 49.5 | 1.3 | 1.8 | 0.5 | < 0.05 | 2.10 | 17.1 | 1.12 | 0.03 | 0.7 | 67.1 |
| 91801 | < 5 | 30.2 | 2.61 | 1.58 | 7.45 | 1.93 | 1.32 | 0.2 | 108 | 101 | 1010 | 5.73 | 4.3 | 83.4 | 1.5 | 2.4 | 0.6 | < 0.05 | 2.19 | 30.2 | 1.69 | 0.19 | 0.6 | 80.6 |
| 91802 | | 25.0 | 2.94 | 1.21 | 7.41 | 1.72 | 1.05 | 0.1 | 101 | 68.3 | 510 | 5.10 | 4.5 | 46.6 | 1.3 | 1.6 | 0.5 | 0.07 | 1.92 | 18.3 | 1.15 | < 0.02 | 0.5 | 72.3 |
| 91803 | | 28.9 | 2.70 | 1.56 | 6.64 | 1.36 | 1.85 | 0.2 | 120 | 129 | 816 | 5.86 | 3.3 | 82.1 | 2.1 | 2.8 | 0.9 | < 0.05 | 2.01 | 25.3 | 2.47 | 0.05 | 0.5 | 80.7 |
| 91804 | < 5 | 30.8 | 2.85 | 1.77 | 7.15 | 1.99 | 1.86 | 0.2 | 114 | 124 | 940 | 5.88 | 4.4 | 95.0 | 2.1 | 3.3 | 0.9 | 0.09 | 2.20 | 29.2 | 2.41 | 0.03 | 0.9 | 93.3 |
| 91805 | | 27.1 | 2.90 | 2.05 | 6.46 | 1.78 | 2.57 | 0.2 | 136 | 109 | 1190 | 6.39 | 4.5 | 83.2 | 2.3 | 2.7 | 0.9 | 0.07 | 1.81 | 30.1 | 2.67 | < 0.02 | 0.9 | 82.8 |
| 91806 | | 31.5 | 2.68 | 1.94 | 6.47 | 1.98 | 2.89 | 0.2 | 146 | 149 | 844 | 6.01 | 4.1 | 109 | 2.8 | 3.8 | 1.1 | 0.07 | 2.06 | 27.8 | 2.96 | 0.04 | 0.8 | 128 |
| 91807 | < 5 | 63.9 | 2.53 | 1.65 | 4.38 | 0.87 | 0.55 | 0.1 | 180 | 476 | 650 | 7.44 | 4.5 | 225 | 1.9 | 5.2 | 0.8 | < 0.05 | 1.93 | 32.3 | 2.06 | 0.34 | 0.7 | 200 |
| 91808 | | 71.7 | 2.25 | 2.28 | 4.99 | 1.06 | 1.37 | 0.5 | 118 | 536 | 2720 | 9.29 | 3.3 | 415 | 9.9 | 10.0 | 4.8 | 0.08 | 2.97 | 47.7 | 22.2 | 2.33 | 3.3 | 442 |
| 91809 | | 25.7 | 2.68 | 2.05 | 5.64 | 1.41 | 3.41 | 0.3 | 131 | 159 | 1410 | 7.00 | 3.5 | 99.8 | 3.1 | 3.3 | 1.2 | 0.09 | 1.60 | 30.7 | 3.41 | 0.07 | 1.0 | 100 |
| 91810 | < 5 | 32.6 | > 3.00 | 1.52 | 7.04 | 1.16 | 1.01 | 0.2 | 75 | 155 | 561 | 5.95 | 3.9 | 80.4 | 1.6 | 3.7 | 0.6 | < 0.05 | 1.34 | 27.8 | 1.80 | 0.04 | 0.6 | 71.0 |
| 91811 | | 47.7 | 1.88 | 1.62 | 6.75 | 1.50 | 1.81 | 0.2 | 145 | 224 | 1670 | 10.2 | 2.6 | 206 | 7.6 | 14.0 | 3.3 | 0.06 | 1.89 | 57.8 | 13.2 | 0.22 | 2.1 | 125 |
| 91812 | | 25.5 | > 3.00 | 1.62 | 6.71 | 1.37 | 2.34 | 0.4 | 170 | 148 | 1800 | 7.56 | 3.6 | 92.3 | 4.5 | 5.1 | 1.8 | < 0.05 | 1.62 | 29.1 | 6.72 | 0.06 | 1.5 | 120 |
| 91813 | < 5 | 28.0 | 2.81 | 2.30 | 6.85 | 1.78 | 2.98 | 0.3 | 145 | 126 | 1150 | 6.34 | 5.8 | 83.7 | 3.2 | 3.6 | 1.3 | < 0.05 | 1.76 | 27.6 | 3.82 | 0.05 | 1.3 | 114 |
| 91814 | | 18.3 | > 3.00 | 1.19 | 7.09 | 1.59 | 1.23 | < 0.1 | 84 | 104 | 378 | 4.46 | 4.0 | 61.9 | 1.4 | 2.5 | 0.6 | 0.06 | 1.57 | 17.6 | 1.79 | < 0.02 | 0.4 | 59.0 |
| 91826 | | 25.0 | > 3.00 | 1.55 | 7.34 | 1.35 | 1.53 | 0.1 | 74 | 120 | 593 | 6.04 | 3.3 | 77.4 | 1.7 | 2.3 | 0.7 | 0.10 | 1.50 | 25.1 | 1.54 | 0.03 | 0.7 | 65.5 |
| 91827 | < 5 | 30.9 | 2.80 | 1.32 | 7.50 | 1.65 | 1.46 | 0.2 | 103 | 105 | 565 | 6.02 | 3.9 | 64.7 | 1.6 | 2.5 | 0.6 | < 0.05 | 1.78 | 22.8 | 1.49 | < 0.02 | 0.6 | 76.7 |
| 91828 | | 22.6 | 2.64 | 1.11 | 4.10 | 0.83 | 1.59 | 0.4 | 152 | 131 | 656 | 5.78 | 3.2 | 58.7 | 1.2 | 2.2 | 0.4 | < 0.05 | 1.05 | 25.4 | 0.79 | < 0.02 | 0.8 | 68.6 |
| 91829 | | 29.1 | 2.55 | 1.98 | 6.90 | 1.20 | 1.88 | 0.2 | 167 | 129 | 836 | 6.53 | 3.1 | 84.0 | 2.1 | 2.5 | 0.8 | < 0.05 | 1.67 | 31.4 | 1.97 | < 0.02 | 0.9 | 90.5 |
| 91830 | < 5 | 29.8 | 2.95 | 1.70 | 7.38 | 1.81 | 1.47 | 0.1 | 108 | 125 | 500 | 4.74 | 3.7 | 78.5 | 1.7 | 3.0 | 0.6 | 0.06 | 1.77 | 19.3 | 1.63 | 0.04 | 0.8 | 71.6 |
| 91831 | | 34.3 | 2.86 | 1.48 | 7.83 | 1.91 | 1.27 | 0.2 | 116 | 111 | 570 | 5.11 | 4.7 | 64.3 | 1.5 | 2.5 | 0.6 | < 0.05 | 1.99 | 18.7 | 1.40 | 0.02 | 0.7 | 79.9 |
| 91832 | | 29.0 | > 3.00 | 1.77 | 7.62 | 1.77 | 1.56 | 0.1 | 122 | 139 | 1040 | 5.59 | 4.3 | 90.5 | 2.2 | 3.4 | 0.9 | < 0.05 | 1.97 | 25.4 | 2.83 | 0.02 | 0.7 | 87.0 |
| 91833 | < 5 | 26.4 | 2.90 | 1.32 | 7.00 | 1.67 | 1.12 | 0.2 | 85 | 123 | 516 | 4.68 | 3.3 | 59.8 | 1.6 | 3.4 | 0.6 | 0.07 | 2.00 | 19.0 | 1.86 | 0.04 | 0.5 | 70.5 |
| 91834 | | 28.4 | 2.72 | 1.57 | 7.40 | 2.19 | 2.00 | 0.2 | 106 | 104 | 885 | 4.74 | 4.6 | 67.3 | 1.9 | 2.4 | 0.7 | < 0.05 | 2.22 | 18.8 | 1.92 | 0.06 | 1.0 | 84.9 |
| 91835 | | 30.4 | > 3.00 | 2.05 | 7.84 | 1.55 | 1.92 | 0.1 | 96 | 122 | 890 | 6.23 | 3.1 | 87.2 | 2.4 | 2.9 | 0.9 | 0.05 | 1.70 | 31.3 | 2.57 | < 0.02 | 0.9 | 96.2 |
| 91836 | < 5 | 29.1 | 2.61 | 2.13 | 5.65 | 0.73 | 2.45 | 0.2 | 191 | 312 | 668 | 7.13 | 3.6 | 133 | 1.4 | 2.7 | 0.5 | < 0.05 | 1.63 | 33.1 | 1.38 | 0.09 | 0.2 | 83.6 |
| 91837 | | 34.7 | > 3.00 | 2.04 | 6.91 | 1.44 | 1.22 | 0.1 | 135 | 289 | 1350 | 6.85 | 4.6 | 191 | 3.0 | 4.4 | 1.3 | < 0.05 | 2.27 | 34.1 | 4.54 | 0.10 | 1.2 | 112 |
| 91838 | | 36.1 | 2.73 | 1.79 | 6.16 | 1.04 | 1.53 | 0.2 | 114 | 211 | 2360 | 8.43 | 3.8 | 164 | 4.5 | 5.0 | 2.0 | < 0.05 | 1.67 | 46.2 | 7.65 | 0.12 | 1.4 | 173 |
| 91839 | < 5 | 30.3 | 1.54 | 2.73 | 3.88 | 1.04 | 9.85 | 0.5 | 60 | 116 | 2470 | 8.49 | 0.9 | 183 | 6.3 | 7.9 | 2.8 | 0.15 | 1.49 | 57.0 | 11.0 | 0.37 | 1.6 | 225 |
| 91840 | | 51.6 | 2.50 | 1.16 | 5.55 | 0.62 | 2.09 | 0.4 | 176 | 83.0 | 1400 | 8.63 | 0.3 | 89.8 | 7.9 | 8.1 | 3.5 | < 0.05 | 1.24 | 37.1 | 12.1 | 0.27 | 1.9 | 184 |
| 91841 | | 51.0 | 2.24 | 1.67 | 5.90 | 1.33 | 2.03 | 0.7 | 174 | 205 | 2870 | 10.6 | 3.3 | 172 | 11.8 | 9.9 | 5.3 | < 0.05 | 1.63 | 51.5 | 20.2 | 0.34 | 3.0 | 254 |
| 91842 | 9 | 48.5 | > 3.00 | 1.39 | 6.72 | 0.97 | 1.49 | 0.5 | 92 | 156 | 2460 | 8.32 | 3.2 | 86.5 | 6.2 | 10.0 | 2.5 | < 0.05 | 1.84 | 42.0 | 7.00 | 0.36 | 1.4 | 208 |
| 91843 | | 51.2 | 2.82 | 2.23 | 5.60 | 0.94 | 2.66 | 0.5 | 106 | 210 | 2090 | 8.47 | 3.5 | 230 | 7.2 | 7.8 | 3.1 | 0.07 | 1.54 | 49.8 | 11.9 | 0.29 | 1.9 | 238 |
| 91844 | | 29.4 | 0.88 | 1.37 | 4.03 | 1.62 | 3.32 | 0.6 | 187 | 125 | > 10000 | 11.1 | 1.1 | 128 | 4.9 | 4.7 | 1.9 | 0.06 | 1.22 | 43.1 | 4.79 | 0.09 | 1.5 | 131 |
| 91845 | < 5 | 30.5 | 2.48 | 2.32 | 5.90 | 1.38 | 4.39 | 0.4 | 182 | 85.1 | 2610 | 8.25 | 0.6 | 80.1 | 7.0 | 7.4 | 2.9 | 0.10 | 1.57 | 32.8 | 9.73 | 0.11 | 1.5 | 160 |
| 91846 | | 27.1 | 1.45 | 1.36 | 4.36 | 0.95 | 3.53 | 0.3 | 170 | 44.2 | 2430 | 6.87 | < 0.1 | 59.9 | 5.6 | 7.0 | 2.3 | 0.10 | 1.33 | 34.3 | 8.46 | 0.11 | 1.5 | 126 |
| 91847 | | 31.5 | 1.46 | 1.04 | 4.87 | 1.00 | 3.16 | 0.4 | 263 | 42.6 | 1980 | 10.3 | 4.3 | 50.9 | 8.0 | 12.9 | 3.6 | 0.14 | 1.34 | 31.1 | 14.3 | 0.14 | 2.2 | 190 |
| 91848 | < 5 | 21.4 | > 3.00 | 1.78 | 7.44 | 1.22 | 1.48 | 0.2 | 130 | 167 | 971 | 6.48 | 3.7 | 112 | 2.2 | 3.8 | | | | | | | | |

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| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91849 | | 34.8 | 1.08 | 0.87 | 6.12 | 2.80 | 0.31 | 0.2 | 341 | 143 | 254 | 6.64 | 4.1 | 34.0 | 1.7 | 2.9 | 0.6 | 2.94 | 4.43 | 8.4 | 0.90 | 0.90 | 4.9 | 34.3 |
| 91850 | | 63.8 | 1.78 | 0.98 | 5.69 | 0.63 | 2.19 | 0.6 | 175 | 91.1 | 2320 | 11.6 | 1.8 | 65.3 | 8.7 | 7.0 | 4.0 | < 0.05 | 1.21 | 58.9 | 14.6 | 0.42 | 2.5 | 156 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91501 | 12.2 | 4.6 | 39.3 | 37.0 | 358 | 62 | 0.6 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.1 | 431 | 59.5 | 126 | 15.3 | 56.9 | 11.1 | 9.4 | 1.4 | 7.7 | 33.1 | 0.3 | 0.5 |
| 91502 | 12.9 | 2.0 | 53.3 | 40.4 | 361 | 68 | 6.0 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 546 | 59.5 | 116 | 15.6 | 58.9 | 11.2 | 8.5 | 1.2 | 7.1 | 85.0 | 0.4 | 0.5 |
| 91503 | 17.3 | 2.1 | 86.7 | 19.4 | 353 | 149 | 6.4 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 564 | 43.4 | 89.1 | 10.7 | 39.0 | 6.6 | 4.3 | 0.6 | 3.1 | 25.9 | 0.4 | 0.3 |
| 91504 | 17.6 | 2.3 | 90.2 | 35.0 | 407 | 108 | 5.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 611 | 61.2 | 125 | 16.5 | 62.7 | 11.9 | 8.5 | 1.0 | 5.8 | 72.1 | 0.4 | 0.5 |
| 91505 | 24.0 | 1.1 | 27.8 | 29.7 | 504 | 55 | 4.0 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 263 | 35.9 | 73.3 | 9.3 | 37.4 | 7.6 | 6.1 | 0.8 | 4.7 | 24.2 | 0.3 | 0.4 |
| 91506 | 16.7 | 2.0 | 52.6 | 37.4 | 340 | 126 | 5.5 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 542 | 86.9 | 174 | 20.3 | 78.8 | 15.4 | 12.1 | 1.5 | 7.7 | 63.2 | 0.4 | 0.5 |
| 91507 | 13.5 | 1.1 | 48.0 | 24.3 | 303 | 49 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 317 | 37.0 | 79.1 | 8.8 | 35.5 | 7.5 | 7.1 | 0.9 | 5.0 | 25.9 | 0.2 | 0.3 |
| 91508 | < 0.1 | 2.8 | 81.5 | 66.9 | 232 | 54 | 55.1 | 5.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 988 | 235 | 488 | 51.3 | 190 | 34.8 | 29.7 | 3.5 | 17.2 | 122 | 0.8 | 0.8 |
| 91509 | 6.5 | 2.4 | 54.2 | 80.4 | 348 | 194 | 45.1 | 1.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 735 | 283 | 420 | 61.3 | 225 | 40.0 | 34.7 | 4.2 | 20.4 | 68.6 | 0.8 | 0.9 |
| 91510 | 8.5 | 1.1 | 11.3 | 24.2 | 294 | 211 | 125 | 2.4 | < 0.1 | 3 | 0.1 | < 0.1 | 559 | 36.3 | 85.3 | 11.0 | 42.6 | 8.8 | 7.7 | 1.2 | 6.6 | 57.0 | 1.2 | 0.4 |
| 91511 | 16.4 | 0.8 | 64.4 | 16.2 | 380 | 181 | 6.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 769 | 37.1 | 74.9 | 8.6 | 29.6 | 4.9 | 3.5 | 0.5 | 3.0 | 12.0 | 0.4 | 0.2 |
| 91512 | 11.8 | 2.4 | 118 | 62.1 | 461 | 164 | 20.7 | < 0.1 | 0.1 | 1 | < 0.1 | < 0.1 | 877 | 137 | 254 | 32.8 | 119 | 20.5 | 14.1 | 1.9 | 10.9 | 132 | 0.6 | 0.8 |
| 91513 | 16.7 | 3.3 | 45.8 | 59.2 | 454 | 130 | 1.0 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 598 | 120 | 401 | 33.7 | 128 | 23.5 | 16.0 | 2.0 | 10.9 | 90.5 | 0.6 | 0.8 |
| 91514 | 15.2 | 1.7 | 75.7 | 50.0 | 502 | 99 | 0.3 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 818 | 88.0 | 198 | 22.9 | 90.9 | 17.4 | 13.4 | 1.6 | 9.0 | 93.2 | 0.4 | 0.7 |
| 91515 | 10.9 | 1.0 | 63.8 | 25.8 | 225 | 93 | 4.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 655 | 91.1 | 158 | 18.1 | 59.1 | 9.6 | 8.6 | 1.1 | 6.0 | 27.5 | 0.4 | 0.4 |
| 91516 | 11.9 | 1.7 | 50.7 | 54.9 | 368 | 30 | 15.1 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 800 | 235 | 439 | 46.7 | 148 | 22.4 | 17.8 | 2.4 | 13.2 | 24.2 | 0.7 | 0.7 |
| 91517 | 16.5 | 1.7 | 58.5 | 46.5 | 311 | 87 | 14.7 | 1.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 720 | 189 | 322 | 39.3 | 130 | 19.5 | 14.5 | 1.8 | 9.8 | 48.4 | 0.7 | 0.6 |
| 91518 | 7.4 | 8.9 | 137 | 283 | 336 | 27 | 62.3 | 10.0 | 0.7 | 5 | < 0.1 | < 0.1 | 984 | 958 | 1420 | 197 | 663 | > 100 | 76.1 | 9.3 | 52.3 | 131 | 2.4 | 3.0 |
| 91519 | 16.4 | 4.1 | 80.5 | 61.3 | 392 | 60 | 20.0 | 0.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 847 | 162 | 325 | 39.3 | 137 | 23.4 | 19.1 | 2.3 | 12.3 | 131 | 0.6 | 0.8 |
| 91520 | 19.0 | 5.1 | 47.6 | 38.3 | 215 | 253 | 124 | 2.1 | 0.1 | 3 | 0.3 | 0.2 | 692 | 79.2 | 161 | 20.9 | 77.9 | 15.4 | 13.1 | 1.6 | 8.5 | 117 | 1.3 | 0.6 |
| 91521 | 6.9 | 12.3 | 73.1 | 141 | 267 | 141 | 131 | 15.1 | 0.5 | 11 | 0.2 | 0.1 | 1050 | 903 | 2270 | 213 | 752 | > 100 | 96.2 | 9.6 | 43.1 | 61.2 | 3.2 | 1.8 |
| 91522 | 13.8 | 2.6 | 52.0 | 88.1 | 217 | 113 | 5.1 | 3.3 | 0.2 | < 1 | < 0.1 | < 0.1 | 776 | 340 | 633 | 69.3 | 244 | 43.6 | 41.8 | 4.8 | 23.9 | 40.8 | 1.1 | 1.2 |
| 91523 | 11.1 | 3.0 | 66.2 | 65.8 | 282 | 7 | 0.6 | 12.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 594 | 370 | 684 | 70.8 | 236 | 36.6 | 33.0 | 3.7 | 17.8 | 52.3 | 1.0 | 0.8 |
| 91524 | 6.8 | 1.3 | 38.0 | 42.7 | 295 | 8 | 0.3 | 11.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 209 | 414 | 40.7 | 131 | 20.0 | 18.7 | 2.3 | 11.5 | 44.4 | 0.6 | 0.6 |
| 91525 | 7.7 | 0.7 | 35.1 | 31.8 | 361 | 4 | 0.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 560 | 124 | 197 | 25.5 | 83.3 | 13.1 | 11.4 | 1.5 | 7.8 | 73.0 | 0.3 | 0.4 |
| 91526 | 15.8 | 2.6 | 53.0 | 53.0 | 307 | 70 | 3.5 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 629 | 711 | 1170 | 104 | 297 | 32.9 | 22.5 | 2.5 | 12.9 | 32.3 | 1.1 | 0.6 |
| 91527 | 5.3 | 2.3 | 13.5 | 34.7 | 324 | 5 | 3.3 | 14.3 | < 0.1 | < 1 | 0.2 | < 0.1 | 244 | 169 | 232 | 32.8 | 105 | 14.4 | 10.0 | 1.2 | 6.2 | 44.4 | 0.4 | 0.4 |
| 91528 | 18.5 | 2.5 | 46.3 | 43.5 | 251 | 101 | 0.9 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 541 | 216 | 405 | 48.2 | 167 | 25.4 | 18.4 | 1.9 | 9.5 | 47.2 | 0.8 | 0.6 |
| 91529 | 12.1 | 5.0 | 41.7 | 128 | 425 | 34 | 0.5 | 6.7 | 0.3 | < 1 | < 0.1 | < 0.1 | 809 | 623 | 912 | 114 | 393 | 62.7 | 51.9 | 5.8 | 29.5 | 38.5 | 1.5 | 1.7 |
| 91530 | 14.1 | 2.8 | 24.6 | 117 | 423 | 332 | 253 | 6.3 | 0.3 | 1 | 0.5 | 0.2 | 1260 | 616 | 1230 | 119 | 433 | 76.9 | 64.4 | 6.8 | 31.6 | 65.7 | 2.0 | 1.4 |
| 91531 | 9.5 | 0.7 | 15.5 | 14.5 | 341 | 116 | 30.7 | 5.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 240 | 47.5 | 84.3 | 10.1 | 37.6 | 6.8 | 6.1 | 0.7 | 3.5 | 13.0 | 0.2 | 0.2 |
| 91532 | 15.6 | 4.5 | 61.5 | 32.6 | 275 | 8 | 25.7 | 1.3 | 0.1 | 1 | < 0.1 | < 0.1 | 771 | 99.6 | 198 | 19.9 | 66.9 | 11.5 | 11.1 | 1.5 | 8.4 | 25.1 | 0.5 | 0.5 |
| 91533 | 10.1 | 1.5 | 46.6 | 80.7 | 554 | 11 | 0.4 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 816 | 331 | 564 | 64.6 | 215 | 34.7 | 31.9 | 4.1 | 21.2 | 79.8 | 0.8 | 1.0 |
| 91534 | 17.3 | 1.6 | 49.9 | 32.7 | 165 | 111 | 2.3 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 521 | 110 | 212 | 23.5 | 78.3 | 12.9 | 10.7 | 1.4 | 7.6 | 35.1 | 0.4 | 0.5 |
| 91535 | 6.9 | 4.8 | 42.6 | 102 | 575 | 35 | 11.4 | 10.8 | 0.1 | < 1 | < 0.1 | 0.1 | 740 | 281 | 588 | 63.9 | 223 | 37.0 | 29.6 | 3.9 | 22.3 | 23.5 | 0.7 | 1.3 |
| 91536 | 15.6 | 4.7 | 56.1 | 56.5 | 294 | 112 | 0.9 | 0.9 | 0.1 | < 1 | < 0.1 | 0.1 | 751 | 192 | 405 | 45.7 | 156 | 25.2 | 18.8 | 2.5 | 13.6 | 41.3 | 0.8 | 0.7 |
| 91537 | 14.1 | 4.8 | 47.4 | 118 | 432 | 10 | 0.3 | 5.5 | 0.2 | < 1 | < 0.1 | < 0.1 | 812 | 451 | 938 | 97.4 | 337 | 54.3 | 40.5 | 5.1 | 26.9 | 57.3 | 1.2 | 1.5 |
| 91538 | 11.6 | 4.3 | 39.9 | 139 | 594 | 273 | 450 | 5.9 | 0.1 | 4 | 0.2 | 0.5 | 989 | 364 | 676 | 79.0 | 269 | 43.8 | 35.3 | 4.7 | 26.9 | 74.3 | 1.5 | 1.8 |
| 91539 | 23.4 | 3.3 | 122 | 36.8 | 140 | 281 | 6.5 | 1.0 | 0.3 | < 1 | < 0.1 | < 0.1 | 1780 | 48.0 | 260 | 13.9 | 52.0 | 10.0 | 10.0 | 1.5 | 8.2 | 251 | 0.3 | 0.5 |
| 91540 | 17.5 | 2.8 | 32.1 | 28.6 | 153 | 30 | 6.9 | 0.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 427 | 142 | 312 | 33.3 | 120 | 20.7 | 15.8 | 1.6 | 7.5 | 17.0 | 0.5 | 0.4 |
| 91541 | 13.6 | 6.8 | 46.6 | 64.0 | 287 | 6 | 6.8 | 0.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 830 | 1270 | 117 | 368 | 51.3 | 42.0 | 3.9 | 16.8 | 60.8 | 1.4 | 0.7 |
| 91542 | 17.5 | 1.1 | 26.9 | 19.2 | 187 | 12 | 0.4 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 479 | 123 | 261 | 28.2 | 96.0 | 14.6 | 10.8 | 1.1 | 5.2 | 18.0 | 0.4 | 0.3 |
| 91543 | 11.4 | 19.5 | 51.0 | 28.3 | 268 | 26 | 1.2 | 0.5 | 0.1 | < 1 | < 0.1 | < 0.1 | 787 | 87.6 | 206 | 19.1 | 66.8 | 11.5 | 10.8 | 1.4 | 7.1 | 83.1 | 0.4 | 0.4 |
| 91544 | 7.9 | 2.3 | 35.6 | 41.0 | 232 | 9 | 8.5 | 0.5 | 0.1 | 1 | < 0.1 | < 0.1 | 770 | 211 | 405 | 43.0 | 142 | 24.5 | 22.6 | 2.6 | 11.9 | 95.7 | 0.6 | 0.5 |
| 91545 | 11.2 | 1.9 | 31.7 | 59.9 | 225 | 72 | 2.0 | 0.2 | 0.1 | < 1 | 0.1 | < 0.1 | 1040 | 265 | 475 | 52.1 | 178 | 33.2 | 29.6 | 3.7 | 16.6 | 99.2 | 0.7 | 0.7 |
| 91546 | 13.6 | 3.4 | 73.9 | 102 | 221 | 104 | 2.4 | 0.3 | 0.2 | 1 | < 0.1 | < 0.1 | 874 | 376 | 693 | 72.7 | 240 | 39.5 | 32.0 | 4.4 | 24.5 | 92.0 | 0.9 | 1.2 |
| 91547 | 17.5 | 3.3 | 44.5 | 45.6 | 244 | 165 | 2.9 | 0.3 | 0.1 | 2 | < 0.1 | < 0.1 | 689 | 191 | 471 | 40.9 | 139 | 20.9 | 14.4 | 1.9 | 10.0 | 62.2 | 0.6 | 0.7 |
| 91548 | 13.2 | 3.7 | 20.7 | 177 | 405 | 144 | 71.6 | 3.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 630 | 632 | 795 | 145 | 549 | 91.8 | 69.9 | 8.0 | 39.7 | 70.9 | 2.2 | 2.1 |
| 91549 | 15.9 | 2.9 | 31.9 | 63.9 | 330 | 182 | 38.2 | 0.6 | 0.1 | 1 | < 0.1 | < 0.1 | 655 | 176 | 314 | 42.8 | 159 | 28.1 | 23.8 | 2.8 | 13.8 | 169 | 0.8 | 0.8 |
| 91550 | 14.4 | 2.4 | 24.5 | 34.8 | 398 | 121 | 0.7 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 954 | 53.0 | 96.5 | 11.9 | 44.3 | 8.8 | 8.9 | 1.2 | 6.9 | 85.8 | 0.2 | 0.5 |
| 91551 | 11.8 | 0.3 | 42.2 | 33.7 | 428 | 63 | 0.5 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 1080 | 75.4 | 172 | 17.4 | 66.8 | 12.4 | 11.2 | 1.4 | 7.4 | 32.3 | 0.3 | 0.5 |
| 91552 | 12.2 | 1.3 | 36.7 | 45.5 | 341 | 79 | 0.5 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 665 | 155 | 284 | 31.4 | 110 | 19.1 | 17.4 | 2.2 | 11.2 | 78.3 | 0.5 | 0.6 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91553 | 0.5 | 0.3 | 5.4 | 19.2 | 157 | 4 | 2.9 | 0.8 | < 0.1 | < 1 | 0.1 | < 0.1 | 321 | 55.4 | 69.9 | 11.6 | 40.6 | 6.9 | 5.7 | 0.7 | 3.7 | 62.4 | 0.1 | 0.2 |
| 91554 | 10.4 | 0.9 | 60.0 | 63.0 | 233 | 62 | 0.5 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 711 | 161 | 165 | 33.5 | 119 | 19.8 | 17.5 | 2.1 | 11.4 | 154 | 0.5 | 0.7 |
| 91555 | 16.2 | 0.8 | 91.4 | 19.5 | 268 | 81 | 6.0 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 38.8 | 80.6 | 8.2 | 27.8 | 4.9 | 4.2 | 0.6 | 3.8 | 24.4 | 0.2 | 0.3 |
| 91556 | 19.3 | 1.2 | 57.6 | 22.9 | 280 | 127 | 2.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 568 | 64.9 | 126 | 13.9 | 47.7 | 7.9 | 5.9 | 0.8 | 4.4 | 18.3 | 0.3 | 0.3 |
| 91557 | 17.5 | 2.1 | 67.7 | 53.8 | 284 | 132 | 1.1 | 0.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 926 | 163 | 291 | 38.2 | 137 | 22.2 | 16.8 | 2.0 | 10.4 | 102 | 0.7 | 0.7 |
| 91558 | 18.7 | 1.9 | 68.3 | 56.0 | 280 | 52 | 0.7 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 837 | 344 | 542 | 56.2 | 184 | 27.6 | 20.5 | 2.4 | 11.7 | 45.3 | 0.7 | 0.7 |
| 91559 | 19.3 | 1.5 | 37.5 | 28.9 | 316 | 379 | 247 | 2.9 | < 0.1 | 5 | 0.2 | 0.1 | 879 | 53.5 | 113 | 15.0 | 58.0 | 11.0 | 10.1 | 1.3 | 6.9 | 23.5 | 1.8 | 0.4 |
| 91560 | 14.7 | 1.0 | 37.2 | 18.2 | 256 | 117 | 3.8 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 528 | 38.0 | 80.0 | 8.8 | 33.3 | 6.5 | 6.0 | 0.8 | 4.2 | 31.8 | 0.2 | 0.3 |
| 91561 | 12.8 | 2.0 | 76.3 | 13.7 | 178 | 102 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 601 | 34.7 | 66.0 | 7.3 | 26.2 | 4.8 | 4.4 | 0.6 | 3.1 | 22.2 | 0.2 | 0.2 |
| 91562 | 14.5 | 0.5 | 61.2 | 16.1 | 256 | 84 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 456 | 37.9 | 75.8 | 8.1 | 28.4 | 5.1 | 4.8 | 0.7 | 3.6 | 22.2 | 0.2 | 0.2 |
| 91563 | 18.2 | < 0.1 | 71.3 | 10.9 | 325 | 66 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 352 | 20.1 | 38.9 | 4.3 | 15.5 | 2.8 | 2.4 | 0.4 | 2.1 | 6.3 | 0.2 | 0.1 |
| 91564 | 18.5 | 0.5 | 76.1 | 14.1 | 276 | 88 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 481 | 28.9 | 54.9 | 6.2 | 21.4 | 3.7 | 3.0 | 0.4 | 2.6 | 8.5 | 0.2 | 0.2 |
| 91565 | 19.4 | 0.7 | 38.8 | 28.5 | 305 | 29 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 459 | 41.7 | 87.2 | 10.5 | 39.0 | 7.6 | 6.8 | 1.0 | 5.6 | 42.3 | 0.2 | 0.4 |
| 91566 | 17.8 | 0.9 | 17.8 | 18.9 | 335 | 5 | 0.5 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 332 | 18.6 | 37.9 | 5.3 | 21.4 | 4.5 | 4.0 | 0.6 | 3.4 | 34.8 | 0.2 | 0.2 |
| 91567 | 16.0 | 5.3 | 85.8 | 27.9 | 224 | 74 | 3.2 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 673 | 81.3 | 136 | 17.9 | 66.0 | 11.5 | 9.4 | 1.1 | 5.7 | 54.2 | 0.4 | 0.4 |
| 91568 | 6.6 | 1.9 | 35.8 | 30.5 | 133 | 43 | 20.5 | 1.9 | < 0.1 | 1 | 0.1 | < 0.1 | 642 | 38.3 | 59.5 | 9.1 | 36.2 | 7.2 | 7.2 | 0.9 | 5.0 | 82.7 | 0.6 | 0.4 |
| 91569 | 13.2 | 1.0 | 57.8 | 17.8 | 244 | 66 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 39.9 | 72.4 | 8.3 | 30.5 | 5.9 | 5.6 | 0.7 | 4.0 | 43.2 | 0.2 | 0.2 |
| 91570 | 14.5 | 1.5 | 43.0 | 24.6 | 276 | 118 | 1.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 493 | 72.2 | 132 | 14.4 | 51.1 | 9.1 | 8.5 | 1.1 | 5.8 | 36.4 | 0.3 | 0.3 |
| 91571 | 15.4 | 4.6 | 30.9 | 22.5 | 425 | 72 | 0.5 | 1.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 316 | 39.5 | 75.1 | 8.6 | 31.7 | 6.0 | 5.5 | 0.8 | 4.6 | 18.7 | 0.2 | 0.3 |
| 91572 | 16.5 | 1.4 | 44.6 | 39.2 | 370 | 93 | 0.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 342 | 81.6 | 148 | 16.6 | 59.3 | 9.9 | 8.9 | 1.3 | 7.6 | 13.3 | 0.3 | 0.5 |
| 91573 | 11.5 | 10.1 | 62.5 | 183 | 446 | 17 | 76.3 | 3.9 | 0.6 | 3 | 0.1 | 0.2 | 458 | 1590 | 2940 | 328 | 997 | > 100 | 88.8 | 10.2 | 48.8 | 63.2 | 3.1 | 2.0 |
| 91574 | 15.9 | 1.8 | 50.9 | 33.4 | 312 | 63 | 1.5 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 534 | 81.7 | 163 | 18.6 | 66.5 | 11.4 | 9.1 | 1.2 | 6.9 | 24.6 | 0.3 | 0.4 |
| 91575 | 0.4 | 1.1 | 3.5 | 10.9 | 163 | 1 | 2.2 | 1.3 | < 0.1 | < 1 | 0.2 | < 0.1 | 256 | 13.0 | 13.9 | 2.8 | 10.8 | 1.9 | 1.7 | 0.2 | 1.3 | 80.0 | < 0.1 | 0.1 |
| 91576 | 0.4 | 1.2 | 3.9 | 8.2 | 194 | 2 | 1.6 | 1.4 | < 0.1 | < 1 | 0.2 | < 0.1 | 294 | 14.0 | 16.0 | 3.0 | 11.1 | 1.8 | 1.6 | 0.2 | 1.0 | 34.6 | < 0.1 | < 0.1 |
| 91577 | 4.3 | 6.4 | 33.0 | 138 | 323 | 314 | 304 | 6.4 | 0.3 | 5 | 0.3 | 0.2 | 847 | 554 | 843 | 125 | 470 | 79.7 | 62.6 | 7.3 | 34.3 | 17.2 | 1.7 | 1.5 |
| 91578 | 6.1 | 4.5 | 21.9 | 115 | 303 | 5 | 4.1 | 1.6 | 0.2 | < 1 | < 0.1 | < 0.1 | 549 | 385 | 664 | 88.0 | 335 | 59.6 | 50.7 | 6.1 | 28.2 | 21.6 | 1.1 | 1.2 |
| 91579 | 0.1 | 1.2 | 3.6 | 4.3 | 192 | < 1 | 2.7 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 96 | 14.3 | 19.9 | 3.1 | 11.6 | 2.0 | 1.6 | 0.2 | 1.0 | 17.9 | < 0.1 | < 0.1 |
| 91580 | < 0.1 | 0.3 | 3.3 | 15.7 | 179 | 6 | 1.1 | 2.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 450 | 50.3 | 68.5 | 10.5 | 38.7 | 6.9 | 5.8 | 0.7 | 3.2 | 99.9 | 0.2 | 0.2 |
| 91581 | 13.7 | 1.3 | 37.6 | 34.7 | 296 | 3 | 0.4 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 689 | 108 | 255 | 23.0 | 83.1 | 13.7 | 12.0 | 1.6 | 8.2 | 48.4 | 0.4 | 0.4 |
| 91582 | 14.7 | 1.6 | 29.2 | 65.2 | 423 | 64 | 1.3 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 722 | 272 | 433 | 53.0 | 184 | 30.8 | 24.6 | 3.2 | 15.9 | 66.8 | 0.6 | 0.7 |
| 91583 | 18.3 | 1.0 | 58.2 | 47.7 | 610 | 39 | 0.7 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 1140 | 65.7 | 138 | 19.0 | 76.1 | 15.2 | 13.5 | 1.9 | 9.7 | 311 | 0.3 | 0.6 |
| 91584 | 7.0 | 3.7 | 37.9 | 157 | 515 | 16 | 1.0 | 17.2 | 0.3 | < 1 | < 0.1 | < 0.1 | 1180 | 410 | 870 | 102 | 386 | 68.4 | 57.2 | 7.3 | 36.6 | 32.3 | 1.2 | 1.9 |
| 91585 | 9.9 | 1.8 | 51.0 | 91.4 | 390 | 11 | 0.2 | 0.8 | 0.2 | < 1 | < 0.1 | < 0.1 | 751 | 348 | 590 | 74.0 | 275 | 45.9 | 36.3 | 4.3 | 19.9 | 122 | 1.0 | 0.9 |
| 91586 | 12.5 | 1.9 | 53.5 | 37.5 | 294 | 2 | 0.4 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 762 | 118 | 225 | 27.7 | 101 | 17.3 | 13.9 | 1.8 | 8.6 | 78.6 | 0.4 | 0.4 |
| 91587 | 13.2 | 4.1 | 34.2 | 44.6 | 291 | 298 | 53.7 | 4.3 | 0.1 | < 1 | < 0.1 | 0.2 | 780 | 113 | 210 | 30.6 | 120 | 22.7 | 19.5 | 2.4 | 12.1 | 96.3 | 0.8 | 0.6 |
| 91588 | 12.8 | 2.6 | 51.5 | 33.5 | 206 | 174 | 25.0 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 787 | 149 | 266 | 31.0 | 111 | 19.1 | 15.8 | 1.8 | 8.3 | 47.2 | 0.4 | 0.4 |
| 91589 | 11.3 | 2.8 | 54.2 | 43.9 | 258 | 20 | 45.2 | 2.9 | 0.1 | < 1 | 0.1 | < 0.1 | 687 | 160 | 295 | 36.4 | 132 | 22.9 | 19.6 | 2.4 | 11.2 | 57.6 | 0.6 | 0.5 |
| 91590 | 11.4 | 5.8 | 52.9 | 81.9 | 267 | 11 | 10.6 | 1.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 781 | 377 | 666 | 79.7 | 288 | 48.4 | 40.8 | 4.8 | 21.7 | 81.9 | 1.0 | 0.9 |
| 91591 | 15.4 | 0.9 | 51.6 | 71.6 | 501 | 5 | 0.4 | < 0.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 998 | 273 | 474 | 55.4 | 187 | 29.5 | 25.1 | 3.5 | 18.3 | 99.7 | 0.6 | 1.2 |
| 91592 | 8.9 | 2.5 | 46.4 | 143 | 597 | 10 | 0.4 | 5.4 | 0.2 | < 1 | < 0.1 | 0.1 | 1050 | 599 | 755 | 117 | 400 | 61.7 | 51.8 | 6.9 | 35.1 | 101 | 1.2 | 1.6 |
| 91593 | 19.5 | 0.8 | 45.3 | 63.2 | 312 | 17 | 0.5 | 0.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 1450 | 186 | 423 | 46.8 | 168 | 27.3 | 21.4 | 2.9 | 14.9 | 99.4 | 0.5 | 0.8 |
| 91594 | 12.6 | 4.5 | 70.0 | 57.2 | 373 | 20 | 11.6 | 0.5 | 0.1 | < 1 | < 0.1 | < 0.1 | 1330 | 182 | 329 | 43.2 | 155 | 24.8 | 18.6 | 2.3 | 11.9 | 163 | 0.7 | 0.6 |
| 91595 | 13.0 | 1.5 | 34.7 | 44.5 | 333 | 60 | 0.2 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 578 | 119 | 236 | 29.3 | 109 | 18.4 | 14.2 | 1.8 | 9.1 | 75.8 | 0.5 | 0.5 |
| 91596 | 17.4 | 2.8 | 41.4 | 69.2 | 278 | 200 | 5.0 | 2.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 546 | 189 | 387 | 48.7 | 184 | 32.5 | 26.0 | 3.1 | 15.4 | 62.1 | 0.6 | 0.8 |
| 91597 | 1.3 | 1.1 | 24.8 | 16.3 | 178 | 29 | 40.3 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 129 | 34.4 | 77.9 | 8.2 | 31.0 | 5.8 | 5.4 | 0.7 | 3.7 | 20.9 | 0.1 | 0.2 |
| 91598 | 5.7 | 1.8 | 13.6 | 58.7 | 572 | 5 | 1.6 | 3.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 554 | 153 | 320 | 38.2 | 144 | 25.4 | 23.3 | 2.9 | 14.7 | 29.1 | 0.5 | 0.7 |
| 91599 | 20.7 | 5.1 | 2.7 | 59.0 | 193 | 71 | 26.6 | 3.9 | < 0.1 | < 1 | 0.2 | < 0.1 | 110 | 46.3 | 85.1 | 11.2 | 45.1 | 10.8 | 12.5 | 2.1 | 11.7 | 129 | 0.3 | 0.7 |
| 91600 | 4.5 | 24.6 | 14.9 | 57.1 | 441 | 2 | 0.7 | 6.9 | 0.1 | < 1 | < 0.1 | 0.2 | 185 | 208 | 384 | 48.8 | 176 | 29.6 | 25.8 | 3.3 | 15.7 | 47.2 | 0.6 | 0.6 |
| 91601 | 7.5 | 1.6 | 37.6 | 8.2 | 74.6 | 101 | 14.9 | 2.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 308 | 36.3 | 68.4 | 7.9 | 27.6 | 4.6 | 3.2 | 0.4 | 1.8 | 58.7 | 0.2 | 0.1 |
| 91602 | 17.4 | 4.3 | 82.5 | 38.8 | 221 | 16 | 46.8 | 2.8 | 0.2 | 2 | 0.1 | 0.1 | 404 | 61.6 | 132 | 15.7 | 59.0 | 11.6 | 10.8 | 1.6 | 8.5 | 83.9 | 0.4 | 0.5 |
| 91603 | 16.5 | 2.5 | 43.8 | 55.3 | 212 | 79 | 1.4 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 341 | 205 | 391 | 46.7 | 166 | 27.3 | 20.0 | 2.5 | 12.3 | 52.1 | 0.7 | 0.6 |
| 91604 | 13.0 | 1.1 | 56.3 | 15.6 | 160 | 71 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1130 | 55.8 | 94.5 | 10.3 | 35.8 | 5.6 | 4.3 | 0.6 | 3.2 | 136 | 0.2 | 0.2 |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91605 | 5.3 | 2.1 | 2.4 | 25.3 | 529 | 2 | 1.1 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 178 | 89.4 | 191 | 22.7 | 85.0 | 13.9 | 10.6 | 1.2 | 6.0 | 50.1 | 0.3 | 0.3 |
| 91606 | 13.5 | 3.6 | 66.5 | 38.0 | 329 | 144 | 8.2 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 664 | 119 | 256 | 27.1 | 96.3 | 16.1 | 12.8 | 1.6 | 8.1 | 89.1 | 0.4 | 0.4 |
| 91607 | 8.6 | 4.4 | 26.5 | 82.5 | 629 | 4 | < 0.1 | 1.1 | 0.3 | < 1 | < 0.1 | < 0.1 | 1100 | 208 | 378 | 52.7 | 199 | 36.3 | 31.3 | 3.9 | 18.8 | 51.0 | 0.6 | 0.8 |
| 91608 | 17.9 | 1.7 | 39.7 | 41.9 | 300 | 31 | < 0.1 | 0.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 1040 | 87.8 | 200 | 22.1 | 80.7 | 13.8 | 11.8 | 1.6 | 8.5 | 37.2 | 0.3 | 0.5 |
| 91609 | 11.5 | 3.3 | 46.6 | 46.4 | 325 | 3 | < 0.1 | 2.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 584 | 166 | 378 | 39.3 | 144 | 23.4 | 18.8 | 2.2 | 10.5 | 84.8 | 0.5 | 0.5 |
| 91610 | 16.1 | 2.2 | 59.7 | 67.0 | 321 | 11 | 0.1 | 1.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 792 | 239 | 445 | 53.8 | 202 | 33.8 | 28.2 | 3.3 | 16.0 | 76.5 | 0.7 | 0.8 |
| 91611 | 15.3 | 3.5 | 49.1 | 66.7 | 247 | 6 | 8.7 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 739 | 225 | 391 | 53.8 | 201 | 33.9 | 27.8 | 3.2 | 14.8 | 93.8 | 0.8 | 0.7 |
| 91612 | 12.5 | 1.0 | 98.8 | 58.7 | 335 | 42 | 0.5 | 0.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 1440 | 209 | 337 | 45.1 | 161 | 27.4 | 24.0 | 3.0 | 14.5 | 75.2 | 0.7 | 0.7 |
| 91613 | 5.6 | 2.7 | 41.1 | 94.5 | 416 | 2 | 0.2 | 1.3 | 0.2 | < 1 | < 0.1 | < 0.1 | 613 | 353 | 900 | 83.1 | 304 | 51.6 | 46.0 | 5.4 | 25.7 | 35.2 | 1.0 | 1.1 |
| 91614 | 12.6 | 1.1 | 56.8 | 41.7 | 303 | 132 | 1.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 863 | 155 | 229 | 33.5 | 116 | 19.2 | 17.0 | 2.2 | 10.3 | 41.0 | 0.5 | 0.5 |
| 91615 | 13.0 | 2.0 | 60.4 | 48.0 | 343 | 103 | 94.7 | 1.5 | 0.2 | 4 | < 0.1 | < 0.1 | 903 | 153 | 336 | 38.5 | 143 | 23.3 | 20.0 | 2.5 | 12.3 | 32.8 | 0.9 | 0.6 |
| 91616 | 12.7 | 1.9 | 43.7 | 52.0 | 290 | 168 | 10.3 | 2.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 738 | 139 | 196 | 36.4 | 135 | 24.2 | 20.6 | 2.7 | 13.1 | 32.3 | 1.0 | 0.6 |
| 91617 | 13.5 | 4.9 | 24.8 | 109 | 532 | 205 | 176 | 6.8 | 0.3 | 4 | 0.2 | 0.1 | 725 | 566 | 961 | 109 | 379 | 60.2 | 46.0 | 5.6 | 26.9 | 48.2 | 1.3 | 1.2 |
| 91618 | 15.4 | 1.9 | 60.3 | 87.7 | 692 | 21 | 66.4 | 0.4 | 0.3 | 2 | < 0.1 | < 0.1 | 612 | 299 | 669 | 64.4 | 227 | 37.4 | 28.6 | 3.7 | 19.3 | 61.0 | 0.8 | 1.0 |
| 91619 | 11.1 | 3.6 | 37.8 | 64.8 | 436 | 31 | 0.6 | 4.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 583 | 191 | 368 | 45.9 | 173 | 28.8 | 24.1 | 2.8 | 14.2 | 64.2 | 0.6 | 0.7 |
| 91620 | 16.9 | 1.5 | 65.3 | 107 | 974 | 73 | 0.3 | 0.8 | 0.2 | < 1 | < 0.1 | < 0.1 | 1270 | 346 | 615 | 77.3 | 281 | 45.5 | 37.6 | 4.5 | 22.4 | 92.5 | 1.1 | 1.4 |
| 91621 | 16.6 | 1.1 | 37.8 | 29.9 | 268 | 95 | 2.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 589 | 98.7 | 188 | 21.8 | 78.9 | 13.1 | 10.8 | 1.3 | 6.7 | 23.0 | 0.3 | 0.4 |
| 91622 | 16.4 | 2.0 | 66.5 | 31.3 | 269 | 96 | 1.5 | 0.2 | 0.2 | 1 | < 0.1 | < 0.1 | 548 | 63.0 | 160 | 15.1 | 57.7 | 10.5 | 9.7 | 1.3 | 7.3 | 20.6 | 0.3 | 0.4 |
| 91623 | 14.4 | 1.3 | 44.8 | 33.9 | 247 | 103 | 3.6 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 542 | 122 | 231 | 26.5 | 94.7 | 15.8 | 14.2 | 1.7 | 8.6 | 22.0 | 0.5 | 0.4 |
| 91624 | 12.1 | 4.7 | 44.1 | 85.1 | 272 | 87 | 0.8 | 0.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 841 | 503 | 942 | 111 | 409 | 63.3 | 50.5 | 5.8 | 25.3 | 141 | 1.3 | 0.8 |
| 91625 | 14.0 | 0.9 | 49.5 | 21.5 | 217 | 62 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 465 | 60.1 | 115 | 13.2 | 46.7 | 7.8 | 6.9 | 0.9 | 4.7 | 19.1 | 0.2 | 0.3 |
| 91626 | 10.6 | 1.2 | 21.7 | 47.8 | 331 | 184 | 94.0 | 1.5 | 0.1 | 2 | < 0.1 | 0.1 | 561 | 121 | 256 | 30.1 | 109 | 18.6 | 15.9 | 2.2 | 11.4 | 117 | 0.9 | 0.6 |
| 91627 | 13.4 | 3.8 | 78.4 | 50.4 | 306 | 120 | 4.4 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 681 | 209 | 403 | 47.3 | 169 | 25.4 | 19.2 | 2.4 | 11.9 | 84.4 | 0.6 | 0.6 |
| 91628 | 15.9 | 1.6 | 55.0 | 44.3 | 357 | 92 | 1.5 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 132 | 221 | 29.0 | 104 | 16.6 | 13.2 | 1.7 | 8.8 | 43.8 | 0.4 | 0.5 |
| 91629 | 16.5 | 1.4 | 29.5 | 28.9 | 310 | 48 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 372 | 36.5 | 68.7 | 9.6 | 37.8 | 7.3 | 6.7 | 0.9 | 5.2 | 17.1 | 0.2 | 0.4 |
| 91630 | 16.9 | 3.1 | 53.0 | 63.6 | 283 | 63 | 1.3 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 547 | 275 | 454 | 60.5 | 219 | 34.5 | 26.1 | 3.1 | 14.9 | 97.9 | 0.7 | 0.8 |
| 91631 | 17.0 | 1.1 | 49.8 | 16.5 | 210 | 111 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 463 | 50.8 | 97.9 | 11.2 | 40.8 | 6.8 | 5.6 | 0.7 | 3.4 | 28.7 | 0.2 | 0.2 |
| 91632 | 14.8 | 6.4 | 55.0 | 48.2 | 326 | 117 | 1.4 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 613 | 587 | 764 | 64.6 | 178 | 20.7 | 19.2 | 2.2 | 10.4 | 58.4 | 0.6 | 0.6 |
| 91633 | 14.1 | 2.7 | 84.6 | 20.6 | 325 | 103 | 0.8 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 653 | 55.0 | 101 | 11.9 | 41.9 | 7.0 | 6.2 | 0.8 | 4.1 | 36.6 | 0.3 | 0.3 |
| 91634 | 15.1 | 1.6 | 54.3 | 19.3 | 292 | 81 | 3.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 487 | 40.3 | 79.3 | 8.7 | 31.3 | 5.5 | 5.1 | 0.7 | 3.9 | 31.8 | 0.3 | 0.3 |
| 91635 | 15.1 | 4.0 | 89.6 | 16.3 | 233 | 170 | 15.9 | 1.4 | < 0.1 | 2 | 0.3 | 0.1 | 671 | 29.0 | 60.5 | 7.1 | 25.8 | 4.5 | 3.9 | 0.5 | 3.1 | 31.8 | 0.8 | 0.2 |
| 91636 | 14.6 | 3.7 | 103 | 16.5 | 282 | 164 | 0.5 | 1.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 776 | 36.4 | 69.9 | 8.4 | 29.6 | 5.0 | 4.0 | 0.5 | 2.9 | 36.8 | 0.1 | 0.2 |
| 91637 | 18.6 | 1.7 | 32.0 | 25.3 | 449 | 17 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 369 | 29.8 | 63.8 | 8.5 | 34.4 | 6.8 | 6.6 | 0.9 | 4.8 | 65.4 | 0.2 | 0.3 |
| 91638 | 14.6 | 2.7 | 118 | 18.9 | 291 | 158 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 732 | 39.3 | 75.6 | 9.1 | 33.3 | 5.8 | 5.0 | 0.6 | 3.4 | 40.4 | 0.2 | 0.2 |
| 91639 | 15.7 | 2.5 | 90.5 | 14.9 | 291 | 137 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 648 | 32.6 | 65.9 | 7.6 | 27.2 | 4.7 | 4.1 | 0.5 | 2.8 | 28.6 | 0.2 | 0.2 |
| 91640 | 16.0 | 2.0 | 83.7 | 16.5 | 304 | 109 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 610 | 49.9 | 97.7 | 10.0 | 35.3 | 6.1 | 5.1 | 0.7 | 3.4 | 29.2 | 0.3 | 0.2 |
| 91641 | 15.1 | 2.3 | 83.0 | 17.7 | 294 | 149 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 675 | 41.0 | 80.4 | 9.4 | 34.3 | 5.9 | 5.1 | 0.7 | 3.4 | 22.4 | 0.4 | 0.2 |
| 91642 | 15.1 | 1.8 | 88.2 | 15.1 | 293 | 160 | 2.8 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 679 | 35.7 | 69.2 | 7.8 | 28.4 | 5.0 | 4.3 | 0.6 | 3.0 | 25.0 | 0.4 | 0.2 |
| 91643 | 14.8 | 1.9 | 101 | 12.9 | 271 | 116 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 716 | 30.4 | 62.4 | 6.6 | 23.2 | 4.1 | 3.6 | 0.5 | 2.6 | 23.9 | 0.3 | 0.2 |
| 91644 | 13.7 | 1.9 | 92.7 | 16.0 | 282 | 145 | 2.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 700 | 39.1 | 74.8 | 8.7 | 30.5 | 5.2 | 4.5 | 0.6 | 3.2 | 25.3 | 0.4 | 0.2 |
| 91645 | 14.1 | 2.3 | 70.6 | 13.3 | 266 | 217 | 22.1 | 0.9 | < 0.1 | 1 | 0.2 | 0.1 | 686 | 27.0 | 56.2 | 6.7 | 24.4 | 4.3 | 3.7 | 0.5 | 2.7 | 27.4 | 1.0 | 0.2 |
| 91646 | 13.7 | 2.4 | 71.2 | 16.1 | 284 | 216 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 548 | 32.1 | 63.1 | 7.2 | 25.9 | 4.5 | 3.8 | 0.5 | 2.9 | 16.9 | 0.2 | 0.2 |
| 91647 | 16.0 | 0.9 | 63.9 | 16.8 | 251 | 101 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 529 | 27.4 | 55.2 | 6.5 | 24.2 | 4.4 | 4.0 | 0.5 | 3.0 | 29.8 | 0.2 | 0.2 |
| 91648 | 16.7 | 2.6 | 95.6 | 18.7 | 311 | 161 | 3.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 682 | 40.5 | 81.0 | 9.5 | 34.0 | 5.8 | 4.6 | 0.6 | 3.3 | 27.6 | 0.3 | 0.2 |
| 91649 | 17.1 | 2.4 | 88.8 | 17.7 | 296 | 180 | 3.7 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 668 | 41.9 | 82.3 | 9.7 | 35.2 | 5.8 | 4.7 | 0.6 | 3.0 | 20.7 | 0.4 | 0.2 |
| 91650 | 19.0 | 2.1 | 92.1 | 16.9 | 243 | 125 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 650 | 45.5 | 84.1 | 10.3 | 37.2 | 6.1 | 4.9 | 0.6 | 3.1 | 27.0 | 0.3 | 0.2 |
| 91651 | 17.2 | 2.0 | 88.5 | 21.5 | 243 | 103 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 689 | 59.5 | 110 | 12.9 | 48.8 | 8.3 | 7.1 | 0.8 | 4.1 | 41.9 | 0.3 | 0.3 |
| 91652 | 15.8 | 2.1 | 86.2 | 19.5 | 232 | 110 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 695 | 59.6 | 103 | 12.3 | 44.5 | 7.7 | 6.7 | 0.8 | 4.0 | 31.4 | 0.3 | 0.2 |
| 91653 | 14.7 | 0.9 | 87.1 | 21.2 | 236 | 83 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 711 | 67.2 | 120 | 13.6 | 48.2 | 8.1 | 7.7 | 1.0 | 4.7 | 36.0 | 0.3 | 0.3 |
| 91654 | 14.4 | 0.5 | 85.8 | 21.8 | 216 | 80 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 711 | 74.8 | 131 | 14.9 | 51.7 | 8.5 | 7.9 | 1.0 | 5.0 | 48.0 | 0.3 | 0.3 |
| 91655 | 14.1 | 0.7 | 63.8 | 29.7 | 237 | 99 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 605 | 102 | 170 | 21.1 | 72.2 | 11.5 | 10.5 | 1.3 | 6.6 | 41.8 | 0.3 | 0.3 |
| 91656 | 14.5 | 2.3 | 19.5 | 19.2 | 288 | 145 | 76.7 | 2.0 | < 0.1 | 2 | 0.1 | < 0.1 | 510 | 43.1 | 103 | 1 | | | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91657 | 12.4 | 1.5 | 58.7 | 36.4 | 306 | 71 | 1.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 694 | 160 | 288 | 31.2 | 104 | 15.5 | 11.7 | 1.5 | 7.5 | 32.5 | 0.4 | 0.4 |
| 91658 | 8.6 | 1.3 | 36.2 | 18.5 | 229 | 12 | 12.5 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 514 | 54.2 | 92.9 | 11.4 | 39.4 | 6.2 | 4.8 | 0.6 | 3.2 | 49.8 | 0.3 | 0.2 |
| 91659 | 18.8 | 1.9 | 52.1 | 41.8 | 262 | 114 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 569 | 120 | 195 | 27.4 | 97.4 | 16.5 | 13.6 | 1.7 | 8.2 | 80.2 | 0.4 | 0.5 |
| 91660 | 17.7 | 1.2 | 54.3 | 40.3 | 240 | 79 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 492 | 107 | 180 | 23.0 | 85.4 | 14.7 | 13.2 | 1.5 | 7.8 | 66.1 | 0.4 | 0.5 |
| 91661 | 15.4 | 0.6 | 66.4 | 20.5 | 227 | 105 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 600 | 57.0 | 116 | 12.3 | 45.5 | 7.9 | 7.3 | 0.9 | 4.4 | 37.3 | 0.2 | 0.3 |
| 91662 | 17.6 | 1.4 | 67.8 | 26.5 | 236 | 152 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 628 | 82.1 | 165 | 15.6 | 55.5 | 9.3 | 9.1 | 1.2 | 5.9 | 31.1 | 0.4 | 0.3 |
| 91663 | 14.7 | 4.6 | 53.6 | 23.0 | 241 | 115 | 1.2 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 448 | 61.1 | 118 | 12.2 | 42.6 | 7.1 | 7.1 | 0.9 | 5.1 | 35.6 | 0.3 | 0.3 |
| 91664 | 16.6 | 1.3 | 55.4 | 30.4 | 422 | 118 | 0.4 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 480 | 113 | 209 | 21.0 | 70.4 | 10.4 | 8.8 | 1.2 | 6.6 | 31.7 | 0.3 | 0.4 |
| 91665 | 11.7 | 1.8 | 46.6 | 25.3 | 243 | 161 | 66.2 | 2.2 | < 0.1 | 1 | 0.2 | < 0.1 | 556 | 75.2 | 135 | 17.1 | 59.8 | 9.6 | 7.7 | 1.0 | 5.2 | 47.5 | 0.6 | 0.3 |
| 91666 | 16.2 | 2.8 | 49.7 | 40.0 | 264 | 123 | 10.8 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 585 | 123 | 263 | 25.8 | 90.7 | 14.2 | 11.5 | 1.5 | 7.8 | 119 | 0.4 | 0.5 |
| 91667 | 18.2 | 6.3 | 62.9 | 51.1 | 264 | 35 | 0.8 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 741 | 166 | 285 | 36.2 | 133 | 21.8 | 18.2 | 2.1 | 10.1 | 85.4 | 0.5 | 0.5 |
| 91668 | 17.0 | 3.7 | 61.6 | 57.7 | 286 | 48 | 6.5 | 0.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 767 | 198 | 371 | 42.6 | 157 | 25.9 | 21.8 | 2.5 | 11.6 | 93.5 | 0.6 | 0.6 |
| 91669 | 15.4 | 1.8 | 50.6 | 32.3 | 230 | 67 | 1.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 542 | 118 | 207 | 24.3 | 88.7 | 15.0 | 13.6 | 1.6 | 7.5 | 42.0 | 0.4 | 0.4 |
| 91670 | 9.8 | 2.2 | 49.8 | 33.9 | 230 | 49 | 33.9 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 556 | 111 | 200 | 22.9 | 82.0 | 13.9 | 13.3 | 1.6 | 8.0 | 53.8 | 0.5 | 0.4 |
| 91671 | 13.2 | 1.8 | 63.1 | 39.3 | 279 | 162 | 4.2 | 0.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 619 | 121 | 244 | 26.1 | 92.4 | 15.6 | 14.6 | 1.8 | 9.1 | 50.8 | 0.5 | 0.5 |
| 91672 | 14.0 | 0.7 | 74.3 | 13.5 | 268 | 109 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 570 | 55.4 | 111 | 11.2 | 38.3 | 5.8 | 4.7 | 0.6 | 2.8 | 15.6 | 0.2 | 0.2 |
| 91673 | 6.4 | 1.6 | 43.3 | 47.3 | 443 | 2 | < 0.1 | 2.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 568 | 159 | 279 | 34.2 | 119 | 18.3 | 15.9 | 2.0 | 10.0 | 88.6 | 0.4 | 0.5 |
| 91674 | 15.8 | 2.1 | 23.9 | 13.0 | 219 | 200 | 76.9 | 1.4 | < 0.1 | 2 | 0.2 | < 0.1 | 523 | 27.0 | 56.5 | 7.8 | 29.0 | 5.2 | 4.4 | 0.6 | 3.1 | 36.2 | 0.9 | 0.2 |
| 91675 | 8.5 | 1.9 | 32.8 | 60.0 | 514 | 3 | 1.4 | 0.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 881 | 150 | 335 | 35.7 | 131 | 21.7 | 17.8 | 2.2 | 11.7 | 60.4 | 0.5 | 0.6 |
| 91676 | 14.7 | 2.2 | 47.2 | 52.6 | 312 | 128 | 27.2 | 1.7 | 0.1 | < 1 | < 0.1 | 0.1 | 596 | 154 | 464 | 38.8 | 142 | 23.5 | 19.0 | 2.3 | 11.6 | 25.4 | 0.7 | 0.6 |
| 91677 | 6.5 | 5.6 | 20.8 | 105 | 485 | 18 | 62.4 | 6.5 | 0.2 | 5 | < 0.1 | < 0.1 | 758 | 265 | 492 | 64.6 | 245 | 42.3 | 36.2 | 4.1 | 20.4 | 27.1 | 0.8 | 1.1 |
| 91678 | 16.0 | 2.7 | 58.4 | 178 | 409 | 53 | 2.9 | 6.1 | 0.3 | < 1 | < 0.1 | < 0.1 | 1690 | 637 | 1300 | 147 | 563 | 96.2 | 82.7 | 9.1 | 41.3 | 35.6 | 1.7 | 1.8 |
| 91679 | 13.3 | 2.7 | 62.8 | 58.5 | 360 | 167 | 25.0 | 2.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 695 | 169 | 332 | 39.5 | 149 | 25.6 | 22.5 | 2.7 | 12.5 | 53.2 | 0.6 | 0.7 |
| 91680 | 15.3 | 1.1 | 64.4 | 39.6 | 334 | 23 | 1.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 746 | 173 | 234 | 33.7 | 119 | 19.2 | 17.0 | 2.0 | 9.3 | 131 | 0.5 | 0.4 |
| 91681 | 0.8 | 0.7 | 4.6 | 2.5 | 169 | 15 | 6.4 | 1.2 | < 0.1 | < 1 | 0.2 | < 0.1 | 88 | 9.3 | 15.3 | 1.6 | 5.4 | 0.9 | 0.9 | 0.1 | 0.6 | 11.6 | < 0.1 | < 0.1 |
| 91682 | 15.8 | 1.2 | 64.4 | 28.2 | 226 | 92 | 0.5 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 491 | 115 | 213 | 24.6 | 88.2 | 13.7 | 11.6 | 1.3 | 6.5 | 44.0 | 0.3 | 0.4 |
| 91683 | 15.6 | 1.3 | 53.4 | 18.9 | 222 | 110 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 469 | 60.0 | 117 | 13.0 | 46.5 | 7.7 | 6.6 | 0.8 | 4.1 | 28.7 | 0.2 | 0.2 |
| 91684 | 16.3 | 9.3 | 51.9 | 17.8 | 187 | 237 | 77.0 | 3.7 | < 0.1 | 2 | 0.2 | 0.1 | 570 | 43.7 | 98.0 | 10.6 | 38.9 | 6.5 | 5.2 | 0.7 | 3.8 | 62.9 | 0.8 | 0.3 |
| 91685 | 18.4 | 1.2 | 76.9 | 10.5 | 214 | 136 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 423 | 44.2 | 83.9 | 9.5 | 33.2 | 5.0 | 3.6 | 0.4 | 1.9 | 23.4 | 0.2 | 0.1 |
| 91686 | 13.6 | 30.1 | 61.8 | 31.4 | 177 | 4 | 2.5 | 1.6 | 0.1 | < 1 | 0.1 | < 0.1 | 527 | 101 | 175 | 20.6 | 69.0 | 10.8 | 9.0 | 1.2 | 5.9 | 120 | 0.3 | 0.4 |
| 91687 | 18.7 | 2.5 | 94.9 | 29.4 | 215 | 125 | 3.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 551 | 81.2 | 152 | 18.6 | 67.5 | 11.6 | 9.4 | 1.1 | 5.5 | 72.0 | 0.3 | 0.3 |
| 91688 | 18.0 | 1.4 | 92.7 | 24.9 | 210 | 7 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 486 | 95.2 | 173 | 20.0 | 71.6 | 11.5 | 9.1 | 1.0 | 4.8 | 55.1 | 0.3 | 0.3 |
| 91689 | 17.3 | 1.6 | 90.3 | 26.8 | 213 | 58 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 540 | 74.8 | 139 | 16.6 | 61.3 | 10.8 | 9.4 | 1.1 | 5.4 | 76.0 | 0.3 | 0.3 |
| 91690 | 18.6 | 1.5 | 108 | 23.2 | 208 | 46 | 1.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 639 | 75.0 | 140 | 16.4 | 59.8 | 10.4 | 8.8 | 1.0 | 4.9 | 48.3 | 0.4 | 0.3 |
| 91691 | 1.5 | 4.0 | 5.2 | 0.9 | 10.9 | 7 | 1.3 | 5.9 | < 0.1 | < 1 | 0.1 | < 0.1 | 19 | 6.0 | 14.5 | 1.8 | 7.1 | 1.3 | 0.8 | < 0.1 | 0.3 | 10.0 | 0.2 | < 0.1 |
| 91692 | 13.8 | 1.1 | 65.8 | 27.2 | 308 | 52 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 684 | 84.5 | 125 | 17.5 | 62.3 | 10.6 | 9.6 | 1.2 | 5.7 | 42.6 | 0.3 | 0.3 |
| 91693 | 14.5 | 1.2 | 70.0 | 19.8 | 275 | 79 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 479 | 47.2 | 97.2 | 10.5 | 37.6 | 6.4 | 5.7 | 0.7 | 3.9 | 11.6 | 0.3 | 0.3 |
| 91694 | 12.4 | 3.1 | 60.4 | 10.1 | 259 | 140 | 16.5 | 1.1 | < 0.1 | 1 | 0.2 | 0.2 | 590 | 14.9 | 39.3 | 4.0 | 14.9 | 2.8 | 2.6 | 0.4 | 2.1 | 24.8 | 0.2 | 0.2 |
| 91695 | 14.1 | 2.9 | 91.0 | 15.9 | 262 | 145 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 33.6 | 75.4 | 7.7 | 27.7 | 4.8 | 4.1 | 0.6 | 2.9 | 31.5 | 0.2 | 0.2 |
| 91696 | 14.4 | 1.9 | 92.5 | 15.3 | 249 | 131 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 672 | 43.2 | 79.3 | 9.3 | 32.8 | 5.3 | 4.2 | 0.5 | 2.8 | 25.3 | 0.2 | 0.2 |
| 91697 | 15.0 | 2.0 | 98.3 | 18.1 | 314 | 168 | 2.6 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 683 | 42.7 | 80.4 | 9.7 | 34.2 | 5.7 | 4.5 | 0.6 | 3.1 | 34.6 | 0.4 | 0.2 |
| 91698 | 16.1 | 6.0 | 103 | 17.7 | 273 | 92 | 0.2 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 733 | 40.3 | 76.3 | 9.2 | 33.3 | 5.6 | 4.7 | 0.6 | 3.0 | 36.4 | 0.2 | 0.2 |
| 91699 | 17.7 | 2.6 | 63.0 | 57.6 | 313 | 53 | 0.2 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 611 | 191 | 308 | 37.7 | 133 | 21.0 | 18.4 | 2.2 | 10.3 | 116 | 0.5 | 0.7 |
| 91700 | 16.0 | 1.6 | 39.3 | 37.4 | 229 | 85 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 436 | 147 | 251 | 31.2 | 113 | 18.4 | 15.4 | 1.8 | 8.5 | 65.3 | 0.5 | 0.5 |
| 91701 | 15.9 | 1.5 | 61.4 | 32.1 | 296 | 86 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 597 | 97.6 | 161 | 20.1 | 73.2 | 12.6 | 11.4 | 1.4 | 6.7 | 68.6 | 0.4 | 0.4 |
| 91702 | 16.2 | 9.4 | 27.1 | 26.9 | 301 | 271 | 121 | 3.4 | < 0.1 | 3 | 0.2 | 0.2 | 601 | 59.2 | 150 | 14.7 | 54.3 | 9.7 | 8.4 | 1.1 | 5.7 | 35.3 | 0.8 | 0.4 |
| 91703 | 19.2 | 2.0 | 77.4 | 19.1 | 251 | 128 | 1.7 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 55.5 | 99.4 | 11.2 | 39.6 | 6.5 | 5.3 | 0.6 | 3.5 | 24.1 | 0.2 | 0.3 |
| 91704 | 14.9 | 3.0 | 80.0 | 25.3 | 319 | 114 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 639 | 69.5 | 130 | 15.0 | 54.6 | 9.4 | 8.3 | 1.0 | 4.8 | 35.3 | 0.3 | 0.3 |
| 91705 | 13.3 | 2.0 | 65.8 | 24.8 | 339 | 105 | 1.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 543 | 64.8 | 119 | 14.1 | 52.0 | 9.2 | 8.2 | 1.0 | 4.9 | 33.8 | 0.3 | 0.3 |
| 91706 | 13.2 | 1.6 | 53.2 | 31.6 | 278 | 89 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 533 | 85.4 | 157 | 18.4 | 66.7 | 12.0 | 10.5 | 1.3 | 6.2 | 41.8 | 0.3 | 0.4 |
| 91707 | 11.4 | 2.8 | 59.3 | 55.5 | 417 | 58 | 0.5 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 669 | 206 | 391 | 44.3 | 160 | 26.8 | 23.2 | 2.6 | 12.5 | 103 | 0.6 | 0.6 |
| 91708 | 15.6 | 1.2 | 57.3 | 25.7 | 223 | 78 | | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91709 | 11.8 | 3.8 | 52.5 | 84.7 | 271 | 105 | 2.7 | 1.5 | 0.2 | 3 | < 0.1 | < 0.1 | 770 | 495 | 782 | 86.3 | 293 | 46.8 | 39.2 | 4.5 | 20.1 | 108 | 1.0 | 0.9 |
| 91710 | 11.4 | 1.4 | 47.1 | 76.6 | 385 | 37 | 0.2 | 2.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 768 | 220 | 385 | 52.4 | 191 | 32.3 | 28.1 | 3.4 | 17.0 | 129 | 0.6 | 0.8 |
| 91711 | 6.9 | 4.6 | 49.5 | 96.9 | 526 | 9 | 0.6 | 2.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 571 | 274 | 510 | 63.5 | 238 | 41.3 | 35.9 | 4.4 | 21.2 | 49.2 | 0.7 | 1.0 |
| 91712 | 14.0 | 2.0 | 50.8 | 74.9 | 315 | 55 | 2.4 | 0.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 761 | 251 | 430 | 56.0 | 203 | 33.3 | 27.2 | 3.2 | 15.2 | 81.3 | 0.8 | 0.8 |
| 91713 | 13.5 | 2.7 | 25.1 | 74.5 | 381 | 219 | 35.0 | 2.9 | 0.1 | < 1 | < 0.1 | 0.1 | 590 | 215 | 413 | 51.6 | 191 | 32.6 | 26.8 | 3.2 | 15.7 | 84.8 | 1.0 | 0.8 |
| 91714 | 17.0 | 1.9 | 45.3 | 69.8 | 350 | 81 | 4.8 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 617 | 315 | 691 | 71.9 | 263 | 42.4 | 31.9 | 3.8 | 17.9 | 60.8 | 0.9 | 0.8 |
| 91715 | 16.7 | 1.8 | 83.9 | 37.5 | 266 | 70 | 4.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 595 | 110 | 172 | 23.9 | 87.6 | 14.7 | 12.2 | 1.5 | 7.1 | 48.9 | 0.4 | 0.4 |
| 91716 | 15.6 | 2.3 | 48.8 | 50.6 | 305 | 68 | 13.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 647 | 126 | 230 | 29.8 | 112 | 19.8 | 16.6 | 2.0 | 9.6 | 54.5 | 0.5 | 0.6 |
| 91717 | 17.6 | 1.4 | 69.4 | 21.5 | 248 | 106 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 571 | 75.0 | 139 | 15.9 | 57.0 | 9.6 | 7.5 | 0.9 | 4.1 | 22.7 | 0.3 | 0.3 |
| 91718 | 9.1 | 1.4 | 31.0 | 91.0 | 394 | 30 | 32.5 | 1.3 | 0.1 | 9 | < 0.1 | < 0.1 | 923 | 295 | 608 | 67.9 | 258 | 44.7 | 38.2 | 4.3 | 20.3 | 34.0 | 0.7 | 1.0 |
| 91719 | 1.4 | 6.8 | 38.5 | 102 | 463 | 2 | 1.5 | 4.8 | 0.2 | < 1 | < 0.1 | < 0.1 | 764 | 392 | 709 | 83.7 | 308 | 52.0 | 44.6 | 5.2 | 23.6 | 9.6 | 0.9 | 1.1 |
| 91720 | 15.0 | 1.5 | 63.3 | 41.3 | 282 | 107 | 1.0 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 699 | 135 | 228 | 28.2 | 104 | 17.7 | 15.7 | 1.9 | 9.0 | 86.2 | 0.4 | 0.5 |
| 91721 | 17.7 | 0.5 | 62.3 | 20.1 | 197 | 113 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 474 | 57.6 | 125 | 13.0 | 47.2 | 8.3 | 7.3 | 0.9 | 4.3 | 43.5 | 0.3 | 0.3 |
| 91722 | 8.8 | 1.1 | 81.7 | 33.3 | 322 | 182 | 56.5 | 2.7 | < 0.1 | 2 | < 0.1 | < 0.1 | 799 | 72.8 | 135 | 16.2 | 59.8 | 10.6 | 9.8 | 1.3 | 6.4 | 32.7 | 0.4 | 0.4 |
| 91723 | 6.4 | 1.7 | 32.9 | 13.1 | 299 | 78 | 24.4 | 1.4 | < 0.1 | < 1 | 0.2 | < 0.1 | 357 | 32.8 | 53.7 | 7.0 | 25.4 | 4.4 | 4.0 | 0.5 | 2.5 | 32.6 | 0.5 | 0.2 |
| 91724 | 15.9 | 0.4 | 62.7 | 31.6 | 198 | 140 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 471 | 90.5 | 168 | 20.1 | 73.0 | 12.9 | 10.7 | 1.3 | 6.5 | 50.6 | 0.3 | 0.4 |
| 91725 | 15.6 | 0.4 | 78.0 | 22.0 | 210 | 120 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 509 | 67.3 | 123 | 14.9 | 52.7 | 9.0 | 7.1 | 0.9 | 4.5 | 61.4 | 0.3 | 0.3 |
| 91751 | 20.6 | 0.8 | 39.3 | 18.6 | 152 | 108 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 307 | 141 | 261 | 31.4 | 110 | 17.1 | 11.5 | 1.1 | 4.5 | 26.0 | 0.4 | 0.2 |
| 91752 | 17.3 | 0.9 | 88.3 | 36.5 | 232 | 32 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 561 | 87.7 | 158 | 20.4 | 74.5 | 12.9 | 10.4 | 1.4 | 6.8 | 105 | 0.3 | 0.5 |
| 91753 | 16.1 | 1.4 | 57.5 | 19.7 | 297 | 82 | 1.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 472 | 49.7 | 112 | 10.5 | 38.6 | 6.4 | 5.3 | 0.7 | 3.6 | 39.0 | 0.2 | 0.2 |
| 91754 | 17.8 | 1.4 | 62.9 | 24.8 | 287 | 75 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 70.8 | 146 | 16.5 | 60.6 | 10.4 | 8.2 | 1.0 | 5.1 | 39.2 | 0.3 | 0.3 |
| 91755 | 17.4 | 1.3 | 73.4 | 29.8 | 315 | 101 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 655 | 74.9 | 133 | 17.1 | 63.2 | 11.2 | 9.0 | 1.1 | 5.5 | 46.7 | 0.3 | 0.4 |
| 91756 | 15.7 | 1.9 | 79.9 | 25.2 | 282 | 119 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 670 | 67.4 | 118 | 15.3 | 56.6 | 10.0 | 8.3 | 1.0 | 4.9 | 43.9 | 0.4 | 0.3 |
| 91757 | 14.3 | 2.0 | 93.1 | 19.0 | 291 | 142 | 1.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 679 | 48.8 | 90.2 | 11.0 | 40.5 | 7.2 | 6.2 | 0.7 | 3.7 | 26.0 | 0.3 | 0.2 |
| 91758 | 13.3 | 4.4 | 80.8 | 16.5 | 233 | 173 | 2.0 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 632 | 46.5 | 94.3 | 9.8 | 35.6 | 6.1 | 5.7 | 0.7 | 3.6 | 26.9 | 0.2 | 0.2 |
| 91759 | 12.7 | 2.5 | 79.0 | 19.9 | 271 | 154 | 1.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 659 | 59.1 | 102 | 12.3 | 43.8 | 7.5 | 6.7 | 0.8 | 4.2 | 29.2 | 0.2 | 0.3 |
| 91760 | 12.9 | 1.8 | 96.0 | 21.5 | 271 | 122 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 699 | 64.3 | 114 | 13.9 | 49.2 | 8.3 | 7.1 | 0.9 | 4.6 | 30.8 | 0.3 | 0.3 |
| 91761 | 13.3 | 2.1 | 101 | 19.1 | 284 | 123 | 2.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 703 | 51.9 | 94.3 | 11.4 | 40.0 | 6.6 | 5.6 | 0.7 | 3.8 | 32.2 | 0.3 | 0.2 |
| 91762 | 17.1 | 7.1 | 89.6 | 27.7 | 298 | 116 | 0.6 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 725 | 79.2 | 143 | 18.2 | 67.4 | 11.1 | 8.7 | 1.0 | 5.0 | 58.7 | 0.5 | 0.3 |
| 91763 | 16.6 | 2.7 | 92.9 | 22.5 | 263 | 150 | 0.8 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 701 | 70.2 | 123 | 15.5 | 57.8 | 9.7 | 7.9 | 0.9 | 4.4 | 40.7 | 0.4 | 0.3 |
| 91764 | 16.9 | 2.4 | 91.6 | 18.8 | 223 | 135 | 1.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 665 | 54.6 | 104 | 11.9 | 43.9 | 7.7 | 6.6 | 0.8 | 3.9 | 28.4 | 0.5 | 0.2 |
| 91765 | 13.9 | 1.6 | 70.5 | 22.9 | 222 | 66 | 0.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 716 | 99.2 | 180 | 18.4 | 63.6 | 10.5 | 9.5 | 1.1 | 5.3 | 44.0 | 0.3 | 0.3 |
| 91766 | 9.5 | 3.3 | 51.9 | 59.8 | 507 | 241 | 100 | 5.8 | < 0.1 | 1 | 0.2 | 0.1 | 528 | 179 | 334 | 39.0 | 143 | 24.2 | 22.7 | 2.9 | 14.1 | 70.9 | 0.9 | 0.7 |
| 91767 | 12.4 | 1.4 | 47.3 | 50.2 | 239 | 126 | 12.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 604 | 158 | 261 | 33.7 | 119 | 19.8 | 17.2 | 2.2 | 10.8 | 80.4 | 0.4 | 0.6 |
| 91768 | 13.6 | 1.8 | 59.4 | 36.1 | 204 | 116 | 1.0 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 543 | 156 | 332 | 28.7 | 97.0 | 15.4 | 12.9 | 1.7 | 8.5 | 128 | 0.3 | 0.5 |
| 91769 | 10.9 | 1.6 | 69.1 | 67.1 | 325 | 4 | 0.4 | 8.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 356 | 165 | 466 | 38.5 | 136 | 22.0 | 19.0 | 2.6 | 13.8 | 62.5 | 0.5 | 0.8 |
| 91770 | 16.2 | 2.0 | 105 | 32.5 | 264 | 65 | 0.7 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 677 | 101 | 162 | 22.5 | 80.4 | 13.0 | 9.9 | 1.3 | 6.4 | 42.9 | 0.4 | 0.4 |
| 91771 | 15.3 | 2.3 | 53.7 | 60.4 | 284 | 77 | 1.3 | 0.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 664 | 216 | 452 | 50.7 | 176 | 26.9 | 19.7 | 2.5 | 12.1 | 67.8 | 0.6 | 0.7 |
| 91772 | 18.4 | 4.5 | 74.9 | 49.0 | 309 | 199 | 54.5 | 1.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 704 | 132 | 245 | 31.6 | 117 | 20.5 | 16.2 | 2.0 | 9.5 | 45.6 | 0.5 | 0.6 |
| 91773 | 7.4 | 5.5 | 27.1 | 66.9 | 628 | 18 | 0.9 | 2.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 415 | 186 | 359 | 45.5 | 173 | 30.7 | 25.3 | 3.0 | 13.9 | 42.4 | 0.5 | 0.7 |
| 91774 | 7.6 | 4.8 | 32.2 | 89.6 | 579 | 12 | 0.6 | 2.9 | 0.2 | < 1 | < 0.1 | < 0.1 | 601 | 249 | 486 | 62.0 | 238 | 42.5 | 36.8 | 4.4 | 20.7 | 65.4 | 0.7 | 1.0 |
| 91775 | 9.0 | 4.4 | 82.3 | 165 | > 1000 | 475 | 99.1 | 6.2 | 0.2 | 3 | 0.2 | 0.2 | 1210 | 481 | 831 | 109 | 422 | 75.9 | 66.6 | 8.1 | 38.8 | 141 | 1.1 | 1.7 |
| 91776 | 11.6 | 1.5 | 23.0 | 23.9 | 196 | 210 | 103 | 3.0 | < 0.1 | 2 | 0.2 | 0.2 | 704 | 56.7 | 101 | 14.3 | 53.9 | 10.2 | 9.5 | 1.2 | 6.2 | 98.4 | 0.5 | 0.3 |
| 91777 | 10.7 | 2.3 | 45.1 | 54.7 | 459 | 311 | 195 | 7.5 | < 0.1 | 2 | 0.2 | 0.2 | 550 | 182 | 340 | 40.9 | 147 | 24.6 | 21.5 | 2.6 | 12.9 | 103 | 0.6 | 0.6 |
| 91778 | 8.5 | 1.0 | 25.4 | 112 | 843 | 15 | 4.7 | 0.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 1120 | 453 | 571 | 100 | 363 | 59.8 | 49.8 | 5.9 | 27.8 | 286 | 1.0 | 1.3 |
| 91779 | 14.1 | 1.8 | 61.1 | 32.0 | 202 | 103 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 591 | 91.2 | 149 | 20.6 | 74.2 | 12.6 | 10.9 | 1.3 | 6.6 | 89.7 | 0.3 | 0.4 |
| 91780 | 2.4 | 0.6 | 86.7 | 45.9 | 425 | 25 | 0.4 | 0.3 | 0.2 | < 1 | < 0.1 | < 0.1 | 3610 | 152 | 256 | 32.9 | 118 | 19.8 | 16.9 | 2.1 | 10.4 | 508 | 0.4 | 0.5 |
| 91781 | 9.4 | 2.5 | 44.2 | 62.4 | 567 | 48 | 0.4 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 622 | 245 | 483 | 55.0 | 193 | 30.5 | 23.1 | 2.8 | 14.1 | 134 | 0.6 | 0.7 |
| 91782 | 13.2 | 3.1 | 61.8 | 56.7 | 323 | 50 | 0.8 | < 0.1 | 0.1 | 1 | < 0.1 | < 0.1 | 841 | 181 | 345 | 41.9 | 148 | 24.6 | 18.6 | 2.4 | 12.0 | 76.7 | 0.5 | 0.7 |
| 91783 | 15.1 | 3.8 | 91.9 | 31.8 | 342 | 77 | 0.4 | 0.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 731 | 99.6 | 179 | 21.2 | 74.1 | 12.5 | 9.5 | 1.2 | 6.0 | 56.1 | 0.5 | 0.4 |
| 91784 | 12.6 | 3.0 | 60.5 | 53.2 | 343 | 37 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 759 | 196 | 362 | 39.7 | 140 | 22.5 | 17.4 | 2.1 | 10.4 | 55.7 | 0.5 | 0.6 |
| 91785 | 13.2 | 4.0 | 59.8 | 45.0 | 307 | 14 | 0.9 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 769 | 254 | 442 | 46.1 | 155 | 23.8 | | | | | | |

Activation Laboratories Ltd. Report: A11-7308

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91786 | 14.5 | 3.0 | 59.3 | 43.6 | 192 | 51 | 0.2 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 764 | 212 | 377 | 48.9 | 179 | 30.0 | 22.6 | 2.5 | 11.0 | 71.8 | 0.6 | 0.5 |
| 91787 | 14.4 | 5.1 | 24.7 | 41.3 | 200 | 191 | 283 | 7.0 | 0.2 | 7 | 0.2 | 0.4 | 616 | 593 | 900 | 79.3 | 218 | 23.0 | 18.5 | 2.0 | 9.9 | 38.4 | 1.6 | 0.5 |
| 91788 | 14.8 | 8.3 | 69.4 | 35.1 | 242 | 202 | 2.9 | 1.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 788 | 159 | 278 | 35.9 | 124 | 18.3 | 13.3 | 1.6 | 7.5 | 103 | 0.5 | 0.4 |
| 91789 | 15.3 | 3.7 | 94.2 | 17.2 | 315 | 206 | 1.3 | 0.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 724 | 40.1 | 79.7 | 9.8 | 35.8 | 6.5 | 5.0 | 0.6 | 3.2 | 32.3 | 0.2 | 0.2 |
| 91790 | 14.7 | 3.2 | 90.8 | 27.2 | 312 | 198 | 2.5 | 0.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 740 | 82.9 | 151 | 19.2 | 69.1 | 11.6 | 9.0 | 1.1 | 5.5 | 50.9 | 0.3 | 0.3 |
| 91791 | 14.9 | 2.9 | 85.6 | 29.2 | 294 | 193 | 11.8 | 0.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 734 | 99.2 | 179 | 22.8 | 82.6 | 13.6 | 10.9 | 1.3 | 6.3 | 78.5 | 0.4 | 0.4 |
| 91792 | 11.6 | 3.1 | 92.1 | 24.8 | 216 | 94 | 3.3 | 1.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 668 | 88.7 | 125 | 19.4 | 69.9 | 11.9 | 9.5 | 1.2 | 5.5 | 46.4 | 0.2 | 0.3 |
| 91793 | 14.4 | 2.8 | 68.3 | 23.0 | 306 | 226 | 17.5 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 695 | 77.1 | 156 | 16.5 | 58.7 | 9.9 | 8.2 | 1.0 | 5.3 | 30.0 | 0.2 | 0.3 |
| 91794 | 13.1 | 2.7 | 55.4 | 21.5 | 250 | 200 | 37.5 | 0.9 | < 0.1 | 1 | 0.1 | < 0.1 | 620 | 54.5 | 105 | 14.0 | 51.8 | 9.2 | 7.3 | 1.0 | 5.1 | 32.9 | 0.2 | 0.3 |
| 91795 | 14.0 | 2.5 | 20.0 | 24.0 | 246 | 206 | 31.3 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 504 | 67.9 | 155 | 17.5 | 63.7 | 11.3 | 9.1 | 1.2 | 6.5 | 32.1 | 0.4 | 0.4 |
| 91796 | 13.1 | 2.4 | 61.1 | 14.0 | 294 | 181 | 10.6 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 699 | 27.8 | 66.9 | 7.4 | 28.0 | 5.2 | 4.3 | 0.6 | 3.0 | 27.5 | 0.2 | 0.2 |
| 91797 | 16.2 | 1.7 | 12.6 | 6.0 | 189 | 167 | 68.8 | 1.8 | < 0.1 | 2 | 0.1 | 0.1 | 430 | 9.3 | 20.6 | 2.6 | 9.7 | 1.8 | 1.6 | 0.2 | 1.5 | 19.3 | 0.5 | 0.1 |
| 91798 | 17.1 | 1.8 | 31.2 | 24.5 | 179 | 413 | 17.6 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 62.4 | 139 | 15.2 | 53.2 | 8.6 | 6.5 | 0.9 | 5.1 | 38.6 | 0.4 | 0.4 |
| 91799 | 12.4 | 5.6 | 42.8 | 149 | 415 | 18 | 0.7 | 1.6 | 0.2 | < 1 | < 0.1 | < 0.1 | 745 | 485 | 630 | 111 | 419 | 72.5 | 55.1 | 6.9 | 32.6 | 33.5 | 1.1 | 1.6 |
| 91800 | 13.5 | 3.0 | 91.3 | 13.4 | 265 | 194 | 11.5 | 0.6 | < 0.1 | 1 | 0.2 | < 0.1 | 621 | 30.2 | 66.0 | 7.3 | 26.4 | 4.8 | 3.8 | 0.5 | 2.6 | 16.7 | 0.1 | 0.2 |
| 91801 | 15.1 | 3.6 | 88.4 | 15.9 | 251 | 178 | 13.7 | 0.5 | < 0.1 | 1 | 0.1 | 0.1 | 629 | 47.0 | 134 | 10.8 | 39.0 | 6.8 | 5.4 | 0.7 | 3.3 | 44.3 | 0.4 | 0.2 |
| 91802 | 14.9 | 2.3 | 80.9 | 12.2 | 234 | 177 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 583 | 31.8 | 63.8 | 7.3 | 26.8 | 4.8 | 3.9 | 0.5 | 2.6 | 25.3 | 0.2 | 0.2 |
| 91803 | 12.4 | 2.1 | 75.2 | 22.0 | 264 | 154 | 6.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 627 | 76.1 | 125 | 15.4 | 54.5 | 9.0 | 7.6 | 1.0 | 4.8 | 48.7 | 0.3 | 0.3 |
| 91804 | 13.6 | 2.6 | 93.1 | 21.3 | 269 | 186 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 765 | 64.4 | 129 | 15.4 | 55.9 | 9.5 | 7.6 | 1.0 | 4.7 | 82.3 | 0.3 | 0.3 |
| 91805 | 12.6 | 1.6 | 82.0 | 22.8 | 284 | 203 | 4.8 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 665 | 73.3 | 143 | 16.9 | 60.3 | 10.0 | 8.2 | 1.1 | 5.4 | 69.9 | 0.4 | 0.3 |
| 91806 | 13.3 | 2.3 | 93.4 | 28.7 | 320 | 201 | 14.8 | 1.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 678 | 83.1 | 154 | 18.9 | 67.4 | 11.4 | 9.0 | 1.2 | 6.1 | 50.2 | 0.3 | 0.4 |
| 91807 | 14.5 | 11.1 | 18.9 | 15.3 | 144 | 203 | 120 | 4.9 | 0.1 | 3 | 0.2 | < 0.1 | 429 | 72.4 | 151 | 16.2 | 53.8 | 8.6 | 6.0 | 0.8 | 4.4 | 23.3 | 0.9 | 0.2 |
| 91808 | 11.4 | 4.4 | 55.5 | 116 | 271 | 170 | 10.1 | 0.6 | 0.3 | < 1 | < 0.1 | < 0.1 | 790 | 698 | 1460 | 165 | 564 | 78.7 | 58.0 | 6.9 | 31.2 | 71.8 | 1.5 | 1.0 |
| 91809 | 12.3 | 2.6 | 73.5 | 33.7 | 364 | 189 | 2.7 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 842 | 87.9 | 171 | 20.9 | 75.5 | 12.9 | 9.7 | 1.3 | 6.5 | 64.9 | 0.3 | 0.4 |
| 91810 | 15.6 | 1.5 | 46.1 | 15.9 | 213 | 169 | 2.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 471 | 51.1 | 113 | 11.6 | 42.2 | 7.0 | 5.0 | 0.6 | 3.2 | 17.4 | 0.2 | 0.2 |
| 91811 | 17.1 | 1.7 | 77.1 | 86.7 | 287 | 144 | 0.8 | 0.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 1300 | 294 | 440 | 73.1 | 279 | 47.7 | 36.2 | 4.4 | 20.6 | 124 | 0.9 | 0.9 |
| 91812 | 14.8 | 2.6 | 56.5 | 49.6 | 263 | 262 | 33.7 | 1.5 | < 0.1 | 3 | 0.1 | < 0.1 | 624 | 152 | 255 | 36.6 | 138 | 23.9 | 18.9 | 2.3 | 10.9 | 46.2 | 0.4 | 0.6 |
| 91813 | 13.8 | 4.3 | 76.2 | 34.8 | 313 | 250 | 63.0 | 2.0 | < 0.1 | 2 | 0.2 | 0.1 | 607 | 87.2 | 163 | 20.4 | 76.7 | 13.7 | 11.3 | 1.4 | 7.1 | 61.5 | 0.4 | 0.4 |
| 91814 | 14.0 | 1.2 | 62.2 | 14.4 | 233 | 167 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | 538 | 46.2 | 88.5 | 10.4 | 38.0 | 6.6 | 5.4 | 0.7 | 3.2 | 23.0 | 0.3 | 0.2 |
| 91826 | 14.3 | 0.9 | 61.3 | 16.0 | 252 | 139 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 516 | 39.8 | 81.0 | 8.9 | 32.3 | 5.8 | 4.9 | 0.7 | 3.5 | 23.7 | 0.2 | 0.2 |
| 91827 | 15.1 | 1.4 | 79.3 | 15.0 | 255 | 170 | 1.5 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 585 | 39.4 | 83.7 | 9.0 | 32.1 | 5.6 | 4.7 | 0.6 | 3.3 | 16.9 | 0.3 | 0.2 |
| 91828 | 15.2 | 1.3 | 11.7 | 8.4 | 189 | 135 | 51.5 | 1.4 | < 0.1 | 2 | 0.1 | < 0.1 | 443 | 10.7 | 25.6 | 3.3 | 12.5 | 2.6 | 2.4 | 0.4 | 2.2 | 29.2 | 0.5 | 0.2 |
| 91829 | 14.7 | 2.2 | 61.0 | 20.3 | 268 | 138 | 52.0 | 1.8 | < 0.1 | 2 | 0.1 | < 0.1 | 577 | 48.0 | 97.6 | 11.5 | 41.8 | 7.4 | 6.0 | 0.8 | 4.2 | 38.5 | 0.6 | 0.3 |
| 91830 | 16.4 | 6.2 | 86.4 | 17.8 | 262 | 170 | 0.9 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 611 | 49.1 | 95.6 | 10.9 | 38.8 | 6.6 | 4.8 | 0.6 | 3.3 | 25.7 | 0.3 | 0.2 |
| 91831 | 16.8 | 3.9 | 92.5 | 15.7 | 265 | 196 | 23.0 | 0.8 | < 0.1 | 2 | < 0.1 | < 0.1 | 620 | 39.5 | 84.5 | 9.3 | 34.0 | 5.9 | 4.6 | 0.6 | 3.0 | 17.2 | 0.3 | 0.2 |
| 91832 | 16.4 | 3.6 | 80.8 | 24.0 | 265 | 190 | 4.1 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 667 | 85.8 | 160 | 19.0 | 68.1 | 11.3 | 8.2 | 1.0 | 4.9 | 36.3 | 0.5 | 0.3 |
| 91833 | 16.7 | 1.4 | 79.8 | 16.3 | 222 | 148 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 55.5 | 111 | 12.7 | 45.5 | 7.5 | 5.5 | 0.7 | 3.3 | 24.3 | 0.4 | 0.2 |
| 91834 | 15.1 | 8.3 | 104 | 20.4 | 300 | 189 | 26.6 | 2.1 | < 0.1 | 2 | 0.2 | < 0.1 | 741 | 51.4 | 98.4 | 12.2 | 44.8 | 7.8 | 6.0 | 0.7 | 3.8 | 46.7 | 0.2 | 0.3 |
| 91835 | 16.7 | 2.9 | 66.2 | 25.7 | 272 | 122 | 3.3 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 647 | 56.3 | 112 | 13.7 | 51.8 | 9.4 | 7.7 | 1.0 | 5.2 | 46.8 | 0.6 | 0.3 |
| 91836 | 15.7 | 2.2 | 11.6 | 11.4 | 282 | 145 | 75.4 | 3.1 | < 0.1 | 2 | 0.4 | 0.2 | 446 | 33.2 | 66.3 | 7.5 | 27.1 | 4.8 | 4.1 | 0.5 | 2.9 | 43.4 | 1.0 | 0.2 |
| 91837 | 14.6 | 3.4 | 55.2 | 32.8 | 201 | 196 | 24.0 | 0.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 690 | 111 | 191 | 25.2 | 91.9 | 16.4 | 13.4 | 1.7 | 7.6 | 53.8 | 0.5 | 0.4 |
| 91838 | 11.7 | 2.5 | 51.5 | 46.2 | 250 | 185 | 12.1 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 804 | 474 | 659 | 64.8 | 207 | 29.3 | 23.3 | 2.6 | 11.9 | 91.6 | 0.6 | 0.5 |
| 91839 | 6.2 | 3.5 | 52.8 | 67.9 | 626 | 66 | 0.3 | 0.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 751 | 268 | 539 | 60.5 | 220 | 38.7 | 31.1 | 3.8 | 17.5 | 180 | 0.6 | 0.7 |
| 91840 | 12.3 | 2.9 | 31.0 | 78.4 | 341 | 64 | 6.3 | 3.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 403 | 371 | 860 | 81.8 | 284 | 45.6 | 35.2 | 4.4 | 20.8 | 32.7 | 0.8 | 0.9 |
| 91841 | 13.6 | 8.8 | 44.9 | 135 | 376 | 221 | 45.9 | 6.0 | 0.2 | 4 | < 0.1 | < 0.1 | 832 | 576 | 830 | 121 | 443 | 72.7 | 56.2 | 6.9 | 32.0 | 134 | 1.4 | 1.3 |
| 91842 | 14.7 | 1.3 | 44.5 | 62.0 | 406 | 149 | 4.1 | 0.4 | 0.1 | 1 | < 0.1 | < 0.1 | 878 | 196 | 367 | 43.8 | 155 | 25.4 | 20.1 | 2.7 | 14.0 | 55.7 | 0.6 | 0.8 |
| 91843 | 12.8 | 19.0 | 43.4 | 78.0 | 397 | 168 | 6.7 | 1.6 | 0.2 | 3 | < 0.1 | < 0.1 | 554 | 534 | 891 | 88.3 | 298 | 45.8 | 32.5 | 4.0 | 18.5 | 75.5 | 0.9 | 0.8 |
| 91844 | 5.9 | 5.7 | 61.7 | 52.1 | 323 | 168 | 16.3 | 19.1 | < 0.1 | 3 | 0.2 | < 0.1 | 2300 | 115 | 209 | 25.5 | 93.2 | 16.3 | 14.0 | 1.9 | 9.9 | 115 | 0.3 | 0.6 |
| 91845 | 14.3 | 2.9 | 71.2 | 76.9 | 405 | 137 | 3.4 | 3.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 679 | 238 | 498 | 59.4 | 217 | 36.1 | 27.2 | 3.4 | 16.1 | 73.9 | 0.6 | 0.9 |
| 91846 | 11.9 | 2.3 | 43.1 | 61.6 | 340 | 133 | 2.1 | 2.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 613 | 208 | 454 | 50.3 | 187 | 30.8 | 23.9 | 2.8 | 13.7 | 74.1 | 0.7 | 0.7 |
| 91847 | 15.1 | 1.1 | 51.3 | 90.6 | 323 | 509 | 0.7 | 0.5 | 0.2 | < 1 | < 0.1 | < 0.1 | 1030 | 326 | 501 | 82.1 | 308 | 52.0 | 41.1 | 4.9 | 22.1 | 101 | 0.9 | 0.9 |
| 91848 | 15.9 | 1.4 | 54.8 | 22.5 | 202 | 160 | 1.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 66.7 | 125 | 15 | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91849 | 19.8 | 46.8 | 122 | 14.1 | 107 | 134 | 6.7 | 19.4 | < 0.1 | 6 | 4.8 | 0.1 | 361 | 15.1 | 28.7 | 3.4 | 13.1 | 2.8 | 2.9 | 0.5 | 2.8 | 39.6 | 0.9 | 0.2 |
| 91850 | 11.3 | 1.9 | 25.2 | 99.1 | 545 | 149 | 53.8 | 1.5 | 0.1 | 1 | < 0.1 | < 0.1 | 749 | 484 | 649 | 84.0 | 297 | 50.6 | 47.0 | 5.5 | 24.9 | 166 | 0.9 | 1.0 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91501 | 2.0 | 0.3 | < 0.1 | 0.1 | 0.002 | 0.16 | 8.8 | 20 | 8.3 | 1.1 | 0.392 | 0.109 | 0.02 | 305 |
| 91502 | 2.6 | 0.3 | 0.2 | < 0.1 | 0.003 | 0.19 | 9.0 | 18 | 7.1 | 4.1 | 0.378 | 0.092 | 0.04 | 189 |
| 91503 | 1.3 | 0.2 | 0.2 | < 0.1 | 0.002 | 0.30 | 13.8 | 14 | 6.9 | 1.0 | 0.438 | 0.067 | < 0.01 | 227 |
| 91504 | 2.2 | 0.3 | 0.2 | < 0.1 | 0.002 | 0.33 | 14.1 | 19 | 9.7 | 1.1 | 0.358 | 0.134 | 0.01 | 372 |
| 91505 | 1.9 | 0.2 | 0.2 | < 0.1 | < 0.001 | 0.09 | 12.5 | 15 | 4.7 | 0.8 | 0.288 | 0.100 | < 0.01 | 215 |
| 91506 | 2.5 | 0.4 | 0.2 | < 0.1 | 0.002 | 0.27 | 21.0 | 20 | 15.0 | 2.6 | 0.484 | 0.155 | < 0.01 | 261 |
| 91507 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.15 | 10.8 | 15 | 7.7 | 1.3 | 0.270 | 0.145 | 0.03 | 195 |
| 91508 | 3.5 | 0.5 | 1.7 | < 0.1 | 0.004 | 0.46 | 50.8 | 27 | 37.0 | 3.7 | 0.704 | 0.420 | < 0.01 | 222 |
| 91509 | 4.1 | 0.6 | 2.1 | < 0.1 | 0.002 | 0.35 | 29.5 | 28 | 32.3 | 5.1 | 0.894 | 0.443 | 0.01 | 252 |
| 91510 | 2.0 | 0.3 | 6.2 | 1.5 | 0.001 | 0.24 | 18.4 | 43 | 7.0 | 1.7 | 1.57 | 0.270 | 0.03 | 348 |
| 91511 | 1.2 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.29 | 15.2 | 14 | 6.7 | 1.2 | 0.331 | 0.037 | 0.02 | 255 |
| 91512 | 3.6 | 0.5 | 0.9 | < 0.1 | < 0.001 | 0.32 | 27.6 | 21 | 18.6 | 2.1 | 0.478 | 0.268 | 0.02 | 346 |
| 91513 | 3.4 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 29.1 | 23 | 24.7 | 2.4 | 0.275 | 0.236 | < 0.01 | 295 |
| 91514 | 3.3 | 0.5 | < 0.1 | < 0.1 | 0.001 | 0.34 | 29.5 | 24 | 21.0 | 3.7 | 0.156 | 0.211 | 0.02 | 188 |
| 91515 | 1.6 | 0.2 | 0.1 | 3.3 | < 0.001 | 0.27 | 9.2 | 20 | 11.1 | 1.2 | 0.368 | 0.184 | < 0.01 | 352 |
| 91516 | 3.3 | 0.4 | 0.5 | 2.9 | < 0.001 | 0.36 | 28.3 | 25 | 28.1 | 3.6 | 0.417 | 0.256 | 0.02 | 252 |
| 91517 | 2.7 | 0.3 | 0.4 | 3.1 | < 0.001 | 0.38 | 17.6 | 23 | 19.0 | 2.6 | 0.507 | 0.252 | 0.01 | 329 |
| 91518 | 13.8 | 1.5 | 0.2 | 3.1 | < 0.001 | 1.05 | 224 | 87 | 122 | 2.0 | 0.418 | 0.407 | 0.17 | 256 |
| 91519 | 4.3 | 0.5 | 0.7 | 3.2 | < 0.001 | 0.55 | 33.4 | 27 | 28.5 | 1.5 | 0.403 | 0.277 | 0.01 | 382 |
| 91520 | 3.2 | 0.4 | 4.1 | 7.8 | < 0.001 | 0.43 | 28.1 | 26 | 13.9 | 1.4 | 1.13 | 0.303 | 0.02 | 338 |
| 91521 | 8.7 | 1.0 | 0.1 | 5.1 | < 0.001 | 0.50 | 231 | 68 | 141 | 2.3 | 0.568 | 0.592 | 0.05 | 266 |
| 91522 | 6.2 | 0.8 | < 0.1 | 3.2 | < 0.001 | 0.47 | 57.5 | 29 | 57.9 | 7.7 | 0.245 | 0.138 | < 0.01 | 130 |
| 91523 | 4.1 | 0.5 | < 0.1 | 2.5 | < 0.001 | 0.47 | 44.7 | 25 | 46.7 | 4.9 | 0.460 | 0.249 | < 0.01 | 239 |
| 91524 | 2.7 | 0.3 | < 0.1 | 2.4 | < 0.001 | 0.32 | 35.1 | 18 | 27.7 | 4.1 | 0.316 | 0.114 | < 0.01 | 80.0 |
| 91525 | 2.0 | 0.2 | < 0.1 | 2.0 | < 0.001 | 0.19 | 15.2 | 20 | 13.4 | 2.5 | 0.198 | 0.133 | 0.05 | 73.0 |
| 91526 | 3.0 | 0.3 | < 0.1 | 2.2 | < 0.001 | 0.32 | 27.1 | 24 | 36.1 | 1.5 | 0.223 | 0.218 | 0.02 | 191 |
| 91527 | 2.0 | 0.2 | < 0.1 | 2.1 | < 0.001 | 0.15 | 11.7 | 8 | 9.6 | 8.5 | 0.278 | 0.170 | 0.16 | 59.0 |
| 91528 | 3.0 | 0.4 | < 0.1 | 2.5 | < 0.001 | 0.30 | 22.5 | 25 | 26.0 | 2.0 | 0.192 | 0.217 | 0.03 | 336 |
| 91529 | 8.7 | 1.1 | < 0.1 | 2.3 | < 0.001 | 0.50 | 185 | 45 | 65.2 | 7.2 | 0.237 | 0.211 | 0.01 | 372 |
| 91530 | 6.8 | 0.8 | 4.3 | 7.3 | < 0.001 | 0.72 | 96.2 | 43 | 110 | 4.8 | 1.67 | 0.344 | 0.03 | 218 |
| 91531 | 1.0 | 0.2 | 0.9 | 3.3 | 0.008 | 0.10 | 8.7 | 19 | 5.8 | 5.6 | 0.501 | 0.124 | 0.09 | 98.0 |
| 91532 | 2.7 | 0.3 | 1.2 | 3.1 | < 0.001 | 0.40 | 32.0 | 19 | 21.1 | 5.8 | 0.734 | 0.224 | 0.01 | 208 |
| 91533 | 5.0 | 0.6 | < 0.1 | 2.0 | < 0.001 | 0.37 | 31.3 | 25 | 25.2 | 6.3 | 0.165 | 0.115 | < 0.01 | 268 |
| 91534 | 2.5 | 0.3 | < 0.1 | 2.2 | < 0.001 | 0.25 | 60.3 | 20 | 15.3 | 1.8 | 0.257 | 0.095 | 0.02 | 329 |
| 91535 | 6.5 | 0.8 | < 0.1 | 2.9 | < 0.001 | 0.46 | 44.4 | 15 | 26.9 | 7.9 | 0.312 | 0.732 | 0.03 | 89.0 |
| 91536 | 3.6 | 0.4 | < 0.1 | 1.9 | < 0.001 | 0.35 | 26.3 | 23 | 26.2 | 5.3 | 0.297 | 0.349 | < 0.01 | 268 |
| 91537 | 7.3 | 0.9 | < 0.1 | 1.1 | < 0.001 | 0.46 | 54.3 | 22 | 50.5 | 18.3 | 0.0538 | 0.598 | < 0.01 | 180 |
| 91538 | 9.7 | 1.2 | 10.4 | 3.8 | < 0.001 | 0.43 | 68.9 | 15 | 29.8 | 9.0 | 0.778 | 0.803 | 0.08 | 121 |
| 91539 | 2.4 | 0.2 | 0.1 | 2.9 | < 0.001 | 1.02 | 61.5 | 48 | 44.0 | 4.5 | 0.391 | 0.188 | 0.05 | 229 |
| 91540 | 2.3 | 0.3 | < 0.1 | 2.2 | < 0.001 | 0.33 | 47.4 | 26 | 36.1 | 4.7 | 0.308 | 0.121 | 0.04 | 162 |
| 91541 | 3.5 | 0.5 | < 0.1 | 1.4 | < 0.001 | 0.27 | 45.2 | 34 | 61.0 | 1.4 | 0.307 | 0.252 | 0.03 | 227 |
| 91542 | 1.7 | 0.2 | < 0.1 | 1.7 | < 0.001 | 0.18 | 63.5 | 17 | 35.2 | 1.6 | 0.157 | 0.054 | 0.01 | 166 |
| 91543 | 2.1 | 0.3 | < 0.1 | 2.4 | < 0.001 | 0.78 | 36.8 | 23 | 25.6 | 5.7 | 0.203 | 0.219 | 0.08 | 291 |
| 91544 | 2.4 | 0.3 | 0.1 | 1.7 | < 0.001 | 0.32 | 67.1 | 37 | 39.1 | 2.7 | 0.194 | 0.222 | 0.09 | 82.0 |
| 91545 | 3.8 | 0.4 | < 0.1 | 1.4 | < 0.001 | 0.29 | 30.1 | 53 | 38.5 | 2.9 | 0.176 | 0.065 | 0.05 | 185 |
| 91546 | 5.6 | 0.6 | < 0.1 | 0.9 | < 0.001 | 0.55 | 57.8 | 47 | 68.8 | 2.9 | 0.228 | 0.150 | 0.02 | 135 |
| 91547 | 3.4 | 0.4 | < 0.1 | 1.4 | < 0.001 | 0.44 | 28.8 | 27 | 32.6 | 2.6 | 0.305 | 0.236 | 0.02 | 253 |
| 91548 | 11.3 | 1.4 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 56.3 | 32 | 56.0 | 7.3 | 0.224 | 1.43 | 0.03 | 179 |
| 91549 | 4.5 | 0.6 | 1.2 | 2.1 | < 0.001 | 0.29 | 27.7 | 33 | 25.4 | 2.9 | 0.572 | 0.304 | 0.03 | 233 |
| 91550 | 3.0 | 0.4 | < 0.1 | 1.6 | < 0.001 | 0.20 | 13.3 | 38 | 9.5 | 0.6 | 0.241 | 0.083 | 0.02 | 153 |
| 91551 | 2.5 | 0.3 | < 0.1 | 1.5 | < 0.001 | 0.28 | 31.2 | 25 | 22.6 | 4.0 | 0.195 | 0.125 | < 0.01 | 196 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91552 | 2.9 | 0.4 | < 0.1 | 1.4 | < 0.001 | 0.28 | 24.9 | 22 | 20.8 | 3.1 | 0.279 | 0.259 | < 0.01 | 228 |
| 91553 | 1.3 | 0.2 | < 0.1 | 1.2 | < 0.001 | 0.08 | 3.2 | 5 | 3.4 | 4.8 | 0.0996 | 0.173 | 0.19 | 58.0 |
| 91554 | 3.9 | 0.5 | < 0.1 | 1.0 | < 0.001 | 0.21 | 11.3 | 21 | 12.0 | 3.2 | 0.140 | 0.192 | 0.06 | 177 |
| 91555 | 1.4 | 0.2 | 0.2 | 1.5 | < 0.001 | 0.26 | 14.4 | 16 | 7.5 | 1.5 | 0.345 | 0.110 | 0.02 | 198 |
| 91556 | 1.7 | 0.2 | < 0.1 | 1.5 | < 0.001 | 0.22 | 21.5 | 17 | 10.2 | 1.3 | 0.258 | 0.185 | 0.01 | 237 |
| 91557 | 3.5 | 0.4 | < 0.1 | 1.0 | < 0.001 | 0.34 | 23.0 | 24 | 17.8 | 3.1 | 0.340 | 0.320 | 0.02 | 237 |
| 91558 | 3.7 | 0.4 | < 0.1 | 0.8 | < 0.001 | 0.22 | 27.8 | 28 | 21.3 | 2.7 | 0.182 | 0.204 | 0.03 | 215 |
| 91559 | 2.4 | 0.3 | 12.5 | 3.8 | < 0.001 | 0.25 | 21.1 | 38 | 10.1 | 3.0 | 2.27 | 0.245 | 0.02 | 183 |
| 91560 | 1.4 | 0.2 | 0.1 | 1.9 | < 0.001 | 0.19 | 12.6 | 17 | 6.8 | 1.0 | 0.517 | 0.077 | 0.01 | 257 |
| 91561 | 1.0 | 0.1 | < 0.1 | 1.6 | < 0.001 | 0.32 | 11.9 | 15 | 6.5 | 1.1 | 0.458 | 0.074 | 0.01 | 215 |
| 91562 | 1.1 | 0.1 | < 0.1 | 1.5 | < 0.001 | 0.23 | 9.8 | 15 | 5.3 | 0.9 | 0.269 | 0.040 | 0.02 | 186 |
| 91563 | 0.7 | < 0.1 | < 0.1 | 1.4 | < 0.001 | 0.15 | 6.9 | 14 | 2.7 | 0.5 | 0.450 | 0.024 | < 0.01 | 222 |
| 91564 | 1.1 | 0.1 | < 0.1 | 1.3 | < 0.001 | 0.27 | 10.5 | 16 | 4.3 | 0.8 | 0.410 | 0.034 | < 0.01 | 225 |
| 91565 | 1.8 | 0.2 | < 0.1 | 1.3 | < 0.001 | 0.10 | 8.1 | 26 | 4.9 | 0.8 | 0.162 | 0.132 | 0.02 | 195 |
| 91566 | 1.3 | 0.1 | < 0.1 | 1.4 | < 0.001 | 0.06 | 4.8 | 19 | 1.9 | 1.2 | 0.121 | 0.049 | 0.02 | 216 |
| 91567 | 2.2 | 0.3 | 0.1 | 1.3 | < 0.001 | 0.41 | 16.1 | 19 | 11.9 | 1.4 | 0.279 | 0.136 | 0.01 | 328 |
| 91568 | 2.8 | 0.4 | 0.9 | 1.9 | < 0.001 | 0.15 | 4.7 | 12 | 5.1 | 1.5 | 0.407 | 0.161 | 0.13 | 96.0 |
| 91569 | 1.2 | 0.1 | < 0.1 | 1.4 | < 0.001 | 0.13 | 9.1 | 15 | 5.7 | 0.9 | 0.250 | 0.069 | 0.02 | 186 |
| 91570 | 1.7 | 0.2 | < 0.1 | 1.6 | < 0.001 | 0.16 | 14.3 | 19 | 11.7 | 1.2 | 0.375 | 0.194 | < 0.01 | 215 |
| 91571 | 1.7 | 0.2 | < 0.1 | 1.4 | < 0.001 | 0.16 | 11.6 | 15 | 5.6 | 0.9 | 0.178 | 0.039 | 0.02 | 155 |
| 91572 | 2.4 | 0.3 | < 0.1 | 1.0 | < 0.001 | 0.15 | 28.9 | 15 | 10.2 | 2.5 | 0.146 | 0.116 | < 0.01 | 244 |
| 91573 | 9.9 | 1.2 | 0.2 | < 0.1 | < 0.001 | 0.26 | 192 | 73 | 152 | 2.4 | 0.379 | 0.364 | 0.07 | 155 |
| 91574 | 2.2 | 0.2 | < 0.1 | 0.9 | < 0.001 | 0.18 | 19.5 | 21 | 18.6 | 2.2 | 0.161 | 0.172 | 0.02 | 245 |
| 91575 | 0.8 | 0.1 | < 0.1 | 0.9 | < 0.001 | < 0.05 | 1.2 | 1 | 0.9 | 3.6 | 0.0371 | 0.073 | 0.20 | 50.0 |
| 91576 | 0.5 | < 0.1 | < 0.1 | 0.9 | < 0.001 | < 0.05 | 2.1 | 3 | 1.0 | 3.7 | 0.0315 | 0.075 | 0.20 | 40.0 |
| 91577 | 8.4 | 1.1 | 17.0 | < 0.1 | < 0.001 | 0.36 | 56.6 | 29 | 71.4 | 21.7 | 0.273 | 1.74 | 0.04 | 143 |
| 91578 | 6.7 | 0.9 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 59.5 | 32 | 48.1 | 10.5 | 0.0397 | 1.35 | 0.02 | 159 |
| 91579 | 0.2 | < 0.1 | < 0.1 | 0.9 | < 0.001 | 0.05 | 2.4 | 1 | 2.6 | 3.0 | 0.0266 | 0.136 | 0.27 | 44.0 |
| 91580 | 0.8 | < 0.1 | < 0.1 | 0.6 | < 0.001 | 0.16 | 4.7 | 4 | 3.7 | 17.7 | 0.102 | 0.132 | 0.18 | 105 |
| 91581 | 2.5 | 0.3 | < 0.1 | 0.7 | < 0.001 | 0.29 | 34.9 | 20 | 22.2 | 3.1 | 0.271 | 0.229 | 0.01 | 160 |
| 91582 | 4.0 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 29.9 | 30 | 32.1 | 4.0 | 0.212 | 0.290 | 0.02 | 214 |
| 91583 | 3.5 | 0.4 | < 0.1 | 0.6 | < 0.001 | 0.74 | 25.2 | 38 | 8.7 | 0.9 | 0.332 | 0.020 | 0.01 | 201 |
| 91584 | 10.6 | 1.4 | < 0.1 | < 0.1 | < 0.001 | 0.50 | 80.5 | 23 | 61.3 | 20.6 | 0.163 | 1.97 | 0.04 | 132 |
| 91585 | 4.8 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 74.5 | 33 | 45.4 | 5.8 | 0.230 | 0.293 | 0.04 | 144 |
| 91586 | 2.6 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.33 | 30.2 | 20 | 21.8 | 2.6 | 0.209 | 0.193 | 0.05 | 89.0 |
| 91587 | 3.7 | 0.5 | 1.9 | 3.6 | < 0.001 | 0.34 | 36.9 | 22 | 12.9 | 2.4 | 0.963 | 0.445 | 0.01 | 359 |
| 91588 | 2.3 | 0.3 | 0.9 | 1.1 | < 0.001 | 0.38 | 37.2 | 26 | 26.3 | 2.7 | 0.445 | 0.196 | 0.03 | 257 |
| 91589 | 2.8 | 0.4 | 1.6 | 1.2 | < 0.001 | 0.33 | 31.2 | 26 | 27.3 | 3.0 | 0.561 | 0.278 | 0.03 | 168 |
| 91590 | 4.7 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 54.5 | 33 | 54.8 | 3.8 | 0.475 | 0.368 | 0.02 | 192 |
| 91591 | 7.2 | 1.0 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 65.4 | 34 | 122 | 2.2 | 0.179 | 0.344 | 0.03 | 289 |
| 91592 | 8.8 | 1.1 | < 0.1 | < 0.1 | < 0.001 | 0.60 | 60.1 | 22 | 46.3 | 13.3 | 0.0850 | 0.367 | < 0.01 | 125 |
| 91593 | 4.0 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.51 | 45.6 | 25 | 33.9 | 7.4 | 0.187 | 0.180 | < 0.01 | 209 |
| 91594 | 3.5 | 0.4 | 0.2 | < 0.1 | < 0.001 | 0.24 | 34.3 | 22 | 19.9 | 5.0 | 0.469 | 0.343 | 0.08 | 57.0 |
| 91595 | 2.7 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 22.1 | 16 | 16.3 | 10.5 | 0.241 | 0.172 | 0.02 | 80.0 |
| 91596 | 4.5 | 0.6 | < 0.1 | 0.4 | < 0.001 | 0.23 | 32.5 | 21 | 30.3 | 11.4 | 0.526 | 0.391 | 0.02 | 177 |
| 91597 | 1.0 | 0.1 | < 0.1 | 0.7 | < 0.001 | 0.07 | 10.0 | 3 | 6.9 | 13.3 | 0.0694 | 0.266 | 0.24 | 41.0 |
| 91598 | 3.9 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 41.6 | 11 | 28.3 | 13.2 | 0.0918 | 0.353 | 0.04 | 37.0 |
| 91599 | 4.5 | 0.6 | 0.5 | 2.2 | < 0.001 | 0.13 | 65.3 | 20 | 28.0 | 2.1 | 0.513 | 0.575 | 0.02 | 289 |
| 91600 | 3.5 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.50 | 22.0 | 17 | 27.0 | 9.3 | 0.0879 | 0.874 | 0.11 | 74.0 |
| 91601 | 0.6 | < 0.1 | 0.3 | 2.6 | < 0.001 | 0.18 | 21.6 | 9 | 13.4 | 1.8 | 0.379 | 0.143 | 0.96 | 126 |
| 91602 | 2.9 | 0.4 | 2.6 | 1.2 | < 0.001 | 1.24 | 19.1 | 16 | 20.9 | 9.7 | 0.411 | 0.434 | 0.08 | 230 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91603 | 3.4 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.46 | 16.1 | 16 | 26.4 | 4.6 | 0.148 | 0.187 | 0.12 | 176 |
| 91604 | 1.3 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.58 | 10.9 | 16 | 6.8 | 5.2 | 0.156 | 0.089 | 0.04 | 90.0 |
| 91605 | 1.8 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.06 | 15.6 | 6 | 12.4 | 11.9 | 0.279 | 0.168 | 0.10 | 66.0 |
| 91606 | 2.3 | 0.3 | 0.3 | 0.5 | < 0.001 | 0.35 | 22.1 | 20 | 16.4 | 6.6 | 0.340 | 0.227 | 0.02 | 188 |
| 91607 | 4.1 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 31.7 | 11 | 17.6 | 4.9 | 0.0222 | 0.412 | 0.09 | 393 |
| 91608 | 2.9 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.58 | 39.8 | 23 | 25.7 | 5.2 | 0.243 | 0.103 | < 0.01 | 98.0 |
| 91609 | 3.0 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 28.6 | 17 | 20.6 | 6.7 | 0.288 | 0.157 | 0.01 | 52.0 |
| 91610 | 4.7 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.43 | 41.8 | 21 | 36.5 | 7.9 | 0.360 | 0.228 | < 0.01 | 194 |
| 91611 | 4.2 | 0.6 | 0.4 | < 0.1 | < 0.001 | 0.42 | 32.0 | 22 | 26.5 | 4.3 | 0.227 | 0.310 | 0.04 | 265 |
| 91612 | 3.7 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 43.0 | 34 | 38.9 | 4.6 | 0.190 | 0.230 | 0.04 | 306 |
| 91613 | 5.9 | 0.8 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 39.3 | 18 | 49.6 | 11.4 | 0.139 | 1.03 | 0.08 | 47.0 |
| 91614 | 2.6 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.40 | 22.0 | 20 | 24.3 | 4.1 | 0.233 | 0.244 | 0.03 | 206 |
| 91615 | 3.0 | 0.4 | 3.7 | 0.7 | < 0.001 | 0.31 | 40.0 | 22 | 27.7 | 3.9 | 0.508 | 0.395 | 0.03 | 154 |
| 91616 | 3.3 | 0.4 | 0.3 | 1.1 | < 0.001 | 0.30 | 21.9 | 19 | 19.8 | 2.9 | 0.485 | 0.422 | 0.01 | 215 |
| 91617 | 6.1 | 0.7 | 3.2 | 0.7 | < 0.001 | 0.32 | 75.3 | 56 | 86.3 | 4.9 | 0.837 | 0.418 | 0.04 | 228 |
| 91618 | 5.8 | 0.7 | 1.3 | < 0.1 | < 0.001 | 0.63 | 73.3 | 38 | 67.3 | 4.9 | 0.335 | 0.282 | 0.04 | 104 |
| 91619 | 4.3 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 39.5 | 23 | 27.9 | 5.1 | 0.591 | 0.379 | < 0.01 | 310 |
| 91620 | 8.0 | 1.0 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 56.1 | 31 | 51.8 | 9.8 | 0.265 | 0.120 | < 0.01 | 185 |
| 91621 | 2.2 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.23 | 20.4 | 18 | 19.6 | 2.5 | 0.177 | 0.148 | 0.01 | 299 |
| 91622 | 2.2 | 0.3 | < 0.1 | 0.4 | < 0.001 | 0.43 | 45.1 | 23 | 30.2 | 2.7 | 0.171 | 0.248 | 0.02 | 235 |
| 91623 | 2.3 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.34 | 23.0 | 21 | 21.2 | 2.8 | 0.244 | 0.220 | 0.01 | 378 |
| 91624 | 4.3 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 51.7 | 36 | 44.4 | 3.5 | 0.225 | 0.297 | 0.02 | 364 |
| 91625 | 1.5 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.20 | 12.6 | 14 | 11.6 | 1.5 | 0.148 | 0.163 | 0.02 | 247 |
| 91626 | 3.4 | 0.4 | 1.9 | 0.3 | < 0.001 | 0.15 | 18.1 | 19 | 14.9 | 1.8 | 1.61 | 0.245 | 0.03 | 460 |
| 91627 | 3.1 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 31.1 | 25 | 25.4 | 2.4 | 0.403 | 0.286 | 0.02 | 497 |
| 91628 | 2.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 16.2 | 23 | 15.1 | 1.3 | 0.265 | 0.139 | 0.01 | 494 |
| 91629 | 2.5 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.09 | 5.1 | 18 | 5.4 | 1.8 | 0.242 | 0.098 | 0.08 | 209 |
| 91630 | 4.5 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 30.2 | 28 | 27.5 | 3.0 | 0.228 | 0.239 | 0.01 | 305 |
| 91631 | 1.3 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.25 | 13.0 | 15 | 8.8 | 1.0 | 0.142 | 0.105 | < 0.01 | 291 |
| 91632 | 3.0 | 0.4 | < 0.1 | 0.4 | < 0.001 | 0.29 | 19.6 | 21 | 23.8 | 1.6 | 0.190 | 0.186 | 0.02 | 438 |
| 91633 | 1.5 | 0.2 | < 0.1 | 0.5 | < 0.001 | 0.40 | 13.8 | 14 | 9.9 | 1.0 | 0.110 | 0.082 | < 0.01 | 513 |
| 91634 | 1.4 | 0.2 | 0.1 | 0.6 | < 0.001 | 0.22 | 11.2 | 17 | 6.1 | 0.7 | 0.277 | 0.103 | < 0.01 | 466 |
| 91635 | 1.3 | 0.2 | 0.8 | 1.6 | < 0.001 | 0.50 | 13.5 | 14 | 7.5 | 1.1 | 0.482 | 0.069 | < 0.01 | 481 |
| 91636 | 1.2 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.52 | 14.3 | 13 | 7.9 | 2.0 | 0.389 | 0.066 | 0.05 | 489 |
| 91637 | 1.7 | 0.2 | < 0.1 | 0.6 | < 0.001 | 0.17 | 5.4 | 20 | 3.9 | 0.4 | 0.402 | 0.069 | 0.02 | 297 |
| 91638 | 1.3 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.47 | 14.7 | 14 | 7.7 | 1.0 | 0.334 | 0.086 | 0.01 | 510 |
| 91639 | 1.0 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.48 | 15.0 | 13 | 7.7 | 1.1 | 0.189 | 0.050 | < 0.01 | 416 |
| 91640 | 1.2 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.47 | 16.4 | 14 | 9.1 | 1.0 | 0.222 | 0.053 | < 0.01 | 375 |
| 91641 | 1.4 | 0.2 | 0.1 | 0.5 | < 0.001 | 0.41 | 14.9 | 13 | 8.7 | 1.2 | 0.273 | 0.074 | < 0.01 | 665 |
| 91642 | 1.2 | 0.1 | 0.1 | 0.6 | < 0.001 | 0.45 | 15.8 | 12 | 8.6 | 1.1 | 0.241 | 0.066 | 0.01 | 446 |
| 91643 | 1.0 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.49 | 16.3 | 12 | 8.1 | 1.1 | 0.182 | 0.057 | 0.01 | 383 |
| 91644 | 1.2 | 0.1 | < 0.1 | 0.5 | < 0.001 | 0.47 | 14.5 | 14 | 8.2 | 1.2 | 0.285 | 0.071 | < 0.01 | 590 |
| 91645 | 1.1 | 0.1 | 1.0 | 1.8 | < 0.001 | 0.47 | 14.3 | 10 | 7.0 | 0.8 | 0.499 | 0.075 | < 0.01 | 486 |
| 91646 | 1.3 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.32 | 12.9 | 13 | 7.2 | 1.1 | 0.390 | 0.074 | < 0.01 | 329 |
| 91647 | 1.1 | 0.1 | < 0.1 | 0.4 | < 0.001 | 0.31 | 10.4 | 14 | 4.8 | 0.8 | 0.287 | 0.074 | 0.03 | 286 |
| 91648 | 1.3 | 0.2 | 0.1 | 0.5 | < 0.001 | 0.47 | 15.3 | 13 | 7.9 | 1.0 | 0.324 | 0.078 | < 0.01 | 499 |
| 91649 | 1.4 | 0.2 | 0.1 | 0.5 | < 0.001 | 0.47 | 15.3 | 13 | 8.9 | 1.1 | 0.363 | 0.074 | < 0.01 | 634 |
| 91650 | 1.3 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.47 | 14.3 | 16 | 8.8 | 1.0 | 0.235 | 0.072 | < 0.01 | 586 |
| 91651 | 1.6 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.42 | 14.5 | 17 | 10.9 | 1.0 | 0.189 | 0.104 | < 0.01 | 461 |
| 91652 | 1.4 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.40 | 13.1 | 17 | 9.7 | 1.0 | 0.236 | 0.107 | < 0.01 | 489 |
| 91653 | 1.5 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.39 | 13.5 | 17 | 10.4 | 1.0 | 0.146 | 0.113 | < 0.01 | 439 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91654 | 1.5 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.36 | 11.9 | 20 | 11.1 | 1.0 | 0.175 | 0.127 | < 0.01 | 383 |
| 91655 | 1.8 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.26 | 12.0 | 19 | 11.9 | 1.2 | 0.176 | 0.148 | < 0.01 | 374 |
| 91656 | 1.6 | 0.2 | 3.0 | 1.8 | < 0.001 | 0.22 | 11.7 | 17 | 5.7 | 1.0 | 1.37 | 0.153 | 0.02 | 328 |
| 91657 | 2.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 21.0 | 19 | 18.2 | 2.0 | 0.362 | 0.119 | 0.05 | 229 |
| 91658 | 1.2 | 0.1 | 0.4 | 0.8 | < 0.001 | 0.19 | 7.3 | 11 | 5.7 | 2.2 | 0.475 | 0.107 | 0.11 | 151 |
| 91659 | 2.8 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.26 | 15.2 | 23 | 13.1 | 1.2 | 0.193 | 0.163 | 0.01 | 381 |
| 91660 | 3.0 | 0.4 | < 0.1 | 0.2 | < 0.001 | 0.23 | 12.9 | 23 | 13.4 | 1.2 | 0.141 | 0.150 | 0.02 | 418 |
| 91661 | 1.4 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.27 | 12.2 | 17 | 9.6 | 1.0 | 0.120 | 0.139 | < 0.01 | 388 |
| 91662 | 1.9 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.35 | 23.1 | 20 | 17.8 | 2.4 | 0.184 | 0.143 | 0.01 | 333 |
| 91663 | 1.6 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.22 | 16.5 | 17 | 12.5 | 1.5 | 0.223 | 0.150 | < 0.01 | 417 |
| 91664 | 2.0 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.28 | 36.5 | 22 | 19.3 | 3.4 | 0.164 | 0.183 | 0.01 | 283 |
| 91665 | 1.5 | 0.2 | 2.1 | 3.0 | < 0.001 | 0.21 | 14.5 | 13 | 10.5 | 2.5 | 0.826 | 0.228 | 0.07 | 189 |
| 91666 | 2.5 | 0.3 | 0.3 | 0.3 | < 0.001 | 0.24 | 26.2 | 20 | 21.2 | 2.3 | 0.382 | 0.270 | < 0.01 | 368 |
| 91667 | 3.1 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 22.9 | 24 | 18.9 | 1.9 | 0.246 | 0.206 | < 0.01 | 442 |
| 91668 | 3.4 | 0.4 | 0.1 | 0.1 | < 0.001 | 0.34 | 32.8 | 25 | 24.4 | 2.4 | 0.210 | 0.329 | 0.01 | 548 |
| 91669 | 2.0 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.27 | 16.9 | 18 | 15.1 | 1.6 | 0.167 | 0.209 | 0.02 | 485 |
| 91670 | 2.0 | 0.3 | 1.0 | 0.9 | < 0.001 | 0.28 | 26.3 | 18 | 15.8 | 3.4 | 0.486 | 0.291 | 0.07 | 135 |
| 91671 | 2.5 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.29 | 20.2 | 18 | 16.6 | 2.4 | 0.414 | 0.325 | 0.02 | 352 |
| 91672 | 1.0 | 0.1 | < 0.1 | 0.3 | < 0.001 | 0.25 | 14.1 | 12 | 10.0 | 1.2 | 0.126 | 0.068 | < 0.01 | 340 |
| 91673 | 2.7 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 20.7 | 13 | 13.7 | 6.7 | 0.238 | 0.166 | 0.02 | 83.0 |
| 91674 | 1.1 | 0.1 | 2.6 | 3.2 | < 0.001 | 0.26 | 14.0 | 8 | 4.9 | 0.9 | 0.755 | 0.130 | 0.03 | 271 |
| 91675 | 3.1 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 30.5 | 15 | 24.2 | 15.7 | 0.0293 | 0.464 | 0.04 | 113 |
| 91676 | 3.3 | 0.4 | 0.7 | 1.1 | < 0.001 | 0.37 | 29.7 | 18 | 33.2 | 4.8 | 0.538 | 0.359 | 0.02 | 232 |
| 91677 | 5.9 | 0.8 | 1.2 | 0.5 | < 0.001 | 0.24 | 35.7 | 15 | 23.3 | 4.9 | 0.284 | 0.785 | 0.03 | 323 |
| 91678 | 9.8 | 1.2 | < 0.1 | < 0.1 | < 0.001 | 0.54 | 50.0 | 28 | 61.0 | 16.6 | 0.261 | 0.861 | 0.05 | 197 |
| 91679 | 3.7 | 0.5 | 0.5 | 1.2 | < 0.001 | 0.35 | 29.6 | 20 | 22.0 | 2.8 | 0.652 | 0.410 | 0.02 | 403 |
| 91680 | 2.3 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 19.6 | 20 | 13.5 | 2.5 | 0.192 | 0.208 | 0.01 | 281 |
| 91681 | 0.2 | < 0.1 | 0.1 | 0.5 | < 0.001 | < 0.05 | 2.6 | 1 | 0.8 | 0.6 | 0.0890 | 0.044 | 0.16 | 56.0 |
| 91682 | 2.0 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.28 | 14.5 | 20 | 16.6 | 1.7 | 0.132 | 0.150 | 0.02 | 247 |
| 91683 | 1.3 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.25 | 10.2 | 15 | 9.7 | 1.1 | 0.151 | 0.101 | < 0.01 | 317 |
| 91684 | 1.7 | 0.2 | 1.6 | 1.0 | < 0.001 | 0.50 | 23.3 | 16 | 11.3 | 2.5 | 0.736 | 0.148 | 0.05 | 214 |
| 91685 | 0.9 | 0.1 | < 0.1 | 0.3 | < 0.001 | 0.24 | 12.6 | 12 | 7.2 | 0.7 | 0.224 | 0.044 | 0.02 | 217 |
| 91686 | 2.1 | 0.3 | < 0.1 | 0.4 | < 0.001 | 1.45 | 47.5 | 15 | 10.8 | 6.9 | 0.436 | 0.164 | 0.12 | 234 |
| 91687 | 2.1 | 0.3 | < 0.1 | 0.4 | < 0.001 | 0.38 | 20.8 | 23 | 13.3 | 0.8 | 0.293 | 0.108 | 0.02 | 397 |
| 91688 | 1.7 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.30 | 18.8 | 19 | 10.9 | 1.1 | 0.214 | 0.105 | 0.02 | 313 |
| 91689 | 2.0 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.30 | 22.0 | 21 | 12.6 | 0.8 | 0.106 | 0.103 | 0.01 | 516 |
| 91690 | 1.8 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.40 | 16.4 | 21 | 13.6 | 0.9 | 0.269 | 0.045 | 0.01 | 282 |
| 91691 | < 0.1 | < 0.1 | < 0.1 | 1.2 | < 0.001 | < 0.05 | 9.2 | 1 | 1.5 | 0.3 | 0.0228 | 0.371 | 0.77 | 238 |
| 91692 | 1.7 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.32 | 13.8 | 15 | 12.4 | 1.9 | 0.180 | 0.125 | 0.01 | 452 |
| 91693 | 1.5 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.33 | 17.2 | 16 | 17.2 | 1.7 | 0.195 | 0.066 | 0.01 | 457 |
| 91694 | 0.9 | < 0.1 | 0.8 | 1.3 | < 0.001 | 0.39 | 12.6 | 11 | 4.3 | 0.7 | 0.448 | 0.066 | < 0.01 | 517 |
| 91695 | 1.1 | 0.1 | < 0.1 | 0.3 | < 0.001 | 0.42 | 15.7 | 13 | 7.7 | 1.0 | 0.374 | 0.082 | 0.01 | 404 |
| 91696 | 1.0 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.44 | 13.6 | 12 | 7.2 | 1.0 | 0.288 | 0.077 | 0.03 | 230 |
| 91697 | 1.2 | 0.1 | < 0.1 | 0.3 | < 0.001 | 0.46 | 15.1 | 12 | 8.7 | 1.2 | 0.315 | 0.075 | 0.01 | 570 |
| 91698 | 1.2 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.52 | 14.6 | 14 | 7.9 | 1.2 | 0.184 | 0.073 | 0.02 | 353 |
| 91699 | 3.8 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 18.6 | 29 | 16.0 | 1.6 | 0.174 | 0.158 | 0.02 | 487 |
| 91700 | 2.6 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.27 | 14.0 | 25 | 15.8 | 1.8 | 0.166 | 0.148 | 0.01 | 335 |
| 91701 | 2.1 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.28 | 13.2 | 21 | 13.6 | 1.4 | 0.194 | 0.175 | 0.01 | 380 |
| 91702 | 2.0 | 0.2 | 4.1 | 2.1 | < 0.001 | 0.30 | 23.4 | 13 | 12.3 | 2.0 | 0.865 | 0.241 | 0.01 | 374 |
| 91703 | 1.4 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.30 | 16.3 | 14 | 8.3 | 1.2 | 0.224 | 0.036 | 0.01 | 222 |
| 91704 | 1.7 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.36 | 13.2 | 17 | 10.2 | 1.3 | 0.259 | 0.132 | 0.02 | 426 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91705 | 1.7 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.30 | 12.7 | 15 | 9.5 | 1.4 | 0.237 | 0.140 | 0.02 | 426 |
| 91706 | 1.9 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.28 | 15.6 | 18 | 12.5 | 1.6 | 0.163 | 0.190 | 0.05 | 223 |
| 91707 | 3.1 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 35.7 | 21 | 27.0 | 2.2 | 0.223 | 0.278 | 0.01 | 416 |
| 91708 | 1.9 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.25 | 29.9 | 17 | 20.4 | 1.9 | 0.168 | 0.156 | 0.01 | 257 |
| 91709 | 4.0 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 65.9 | 35 | 41.6 | 2.5 | 0.386 | 0.413 | 0.03 | 359 |
| 91710 | 4.2 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 32.5 | 28 | 23.4 | 8.9 | 0.509 | 0.303 | < 0.01 | 190 |
| 91711 | 4.9 | 0.6 | < 0.1 | 0.2 | < 0.001 | 0.29 | 44.3 | 28 | 33.9 | 7.8 | 0.237 | 1.06 | 0.02 | 349 |
| 91712 | 4.0 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 30.9 | 23 | 22.2 | 4.0 | 0.376 | 0.450 | 0.01 | 370 |
| 91713 | 4.4 | 0.5 | 1.0 | 2.1 | < 0.001 | 0.28 | 30.2 | 20 | 17.0 | 3.3 | 0.750 | 0.396 | 0.03 | 284 |
| 91714 | 3.8 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 24.3 | 24 | 29.1 | 4.7 | 0.330 | 0.190 | < 0.01 | 296 |
| 91715 | 2.3 | 0.3 | 0.1 | 0.3 | < 0.001 | 0.35 | 16.0 | 17 | 12.6 | 2.2 | 0.363 | 0.195 | < 0.01 | 336 |
| 91716 | 3.1 | 0.4 | 0.7 | 0.4 | < 0.001 | 0.29 | 20.7 | 20 | 15.3 | 2.0 | 0.273 | 0.336 | 0.01 | 362 |
| 91717 | 1.4 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.32 | 12.6 | 16 | 9.6 | 1.0 | 0.160 | 0.110 | < 0.01 | 357 |
| 91718 | 5.2 | 0.7 | 1.8 | < 0.1 | < 0.001 | 0.34 | 30.0 | 18 | 20.1 | 7.0 | 0.326 | 0.834 | 0.07 | 225 |
| 91719 | 5.5 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.44 | 43.0 | 13 | 47.0 | 7.8 | 0.130 | 0.895 | < 0.01 | 421 |
| 91720 | 2.5 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 17.9 | 20 | 16.0 | 2.7 | 0.239 | 0.260 | 0.01 | 345 |
| 91721 | 1.4 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.25 | 12.2 | 18 | 10.2 | 1.4 | 0.183 | 0.123 | 0.01 | 371 |
| 91722 | 2.3 | 0.3 | 2.2 | 4.0 | < 0.001 | 0.47 | 37.2 | 14 | 15.7 | 3.1 | 0.454 | 0.226 | 0.04 | 383 |
| 91723 | 0.8 | 0.1 | 1.1 | 2.8 | < 0.001 | 0.12 | 7.5 | 10 | 4.4 | 8.2 | 0.489 | 0.085 | 0.33 | 165 |
| 91724 | 2.2 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.22 | 13.7 | 22 | 12.1 | 1.1 | 0.274 | 0.152 | 0.02 | 295 |
| 91725 | 1.5 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.26 | 9.4 | 21 | 10.0 | 0.8 | 0.305 | 0.100 | < 0.01 | 129 |
| 91751 | 1.2 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.10 | 11.9 | 21 | 18.6 | 0.5 | 0.200 | 0.065 | 0.01 | 288 |
| 91752 | 2.5 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.28 | 29.2 | 26 | 12.7 | 1.7 | 0.128 | 0.148 | 0.06 | 208 |
| 91753 | 1.4 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.26 | 13.4 | 16 | 7.7 | 0.9 | 0.194 | 0.107 | < 0.01 | 259 |
| 91754 | 1.8 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.32 | 11.1 | 19 | 8.4 | 1.0 | 0.236 | 0.099 | < 0.01 | 249 |
| 91755 | 2.1 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.36 | 14.5 | 18 | 10.3 | 1.1 | 0.201 | 0.117 | < 0.01 | 333 |
| 91756 | 1.8 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.38 | 15.9 | 17 | 10.6 | 1.3 | 0.266 | 0.130 | < 0.01 | 342 |
| 91757 | 1.4 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.42 | 16.2 | 13 | 9.3 | 1.1 | 0.261 | 0.095 | 0.01 | 286 |
| 91758 | 1.1 | 0.1 | 0.1 | 0.3 | < 0.001 | 0.39 | 18.2 | 14 | 9.9 | 1.2 | 0.446 | 0.160 | 0.01 | 354 |
| 91759 | 1.3 | 0.2 | 0.2 | 0.2 | < 0.001 | 0.38 | 14.8 | 15 | 9.6 | 1.2 | 0.470 | 0.145 | < 0.01 | 363 |
| 91760 | 1.5 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.43 | 14.3 | 16 | 10.7 | 1.2 | 0.317 | 0.115 | < 0.01 | 260 |
| 91761 | 1.3 | 0.1 | 0.1 | 0.3 | < 0.001 | 0.44 | 14.2 | 15 | 9.4 | 1.1 | 0.275 | 0.101 | 0.01 | 331 |
| 91762 | 1.9 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.49 | 17.3 | 18 | 11.1 | 1.5 | 0.242 | 0.166 | 0.01 | 269 |
| 91763 | 1.6 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.47 | 14.4 | 18 | 10.5 | 1.5 | 0.297 | 0.143 | 0.02 | 292 |
| 91764 | 1.4 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.40 | 13.5 | 17 | 9.4 | 1.5 | 0.294 | 0.117 | < 0.01 | 325 |
| 91765 | 1.5 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.32 | 15.4 | 20 | 13.4 | 1.1 | 0.173 | 0.156 | < 0.01 | 203 |
| 91766 | 3.7 | 0.5 | 4.1 | 3.4 | < 0.001 | 0.23 | 29.1 | 19 | 26.8 | 3.2 | 0.764 | 0.491 | < 0.01 | 228 |
| 91767 | 3.1 | 0.4 | 0.4 | 0.4 | < 0.001 | 0.25 | 23.3 | 22 | 19.1 | 2.0 | 0.534 | 0.282 | 0.01 | 207 |
| 91768 | 2.3 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.22 | 28.5 | 21 | 26.3 | 1.6 | 0.291 | 0.211 | < 0.01 | 191 |
| 91769 | 4.2 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 24.2 | 15 | 30.7 | 7.3 | 0.120 | 0.397 | < 0.01 | 265 |
| 91770 | 2.0 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.43 | 16.2 | 18 | 12.3 | 1.5 | 0.342 | 0.170 | 0.01 | 237 |
| 91771 | 3.7 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 38.1 | 22 | 28.0 | 2.9 | 0.250 | 0.321 | 0.02 | 153 |
| 91772 | 3.1 | 0.4 | 1.7 | 1.8 | < 0.001 | 0.43 | 25.5 | 23 | 18.2 | 2.3 | 0.719 | 0.470 | 0.02 | 155 |
| 91773 | 3.7 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 25.9 | 17 | 21.0 | 4.4 | 0.134 | 0.643 | 0.02 | 289 |
| 91774 | 5.3 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 38.1 | 23 | 31.4 | 6.9 | 0.200 | 0.938 | < 0.01 | 300 |
| 91775 | 8.5 | 1.1 | 2.6 | 2.2 | < 0.001 | 0.46 | 55.6 | 30 | 51.4 | 6.0 | 0.389 | 0.999 | 0.02 | 332 |
| 91776 | 1.8 | 0.2 | 4.0 | 3.8 | < 0.001 | 0.26 | 19.5 | 29 | 5.3 | 1.6 | 1.02 | 0.253 | 0.02 | 538 |
| 91777 | 3.3 | 0.4 | 10.7 | 2.2 | < 0.001 | 0.21 | 24.0 | 19 | 23.2 | 4.5 | 0.917 | 0.431 | 0.03 | 387 |
| 91778 | 6.2 | 0.8 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 61.0 | 30 | 40.5 | 9.2 | 0.220 | 0.146 | < 0.01 | 213 |
| 91779 | 1.8 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 10.8 | 20 | 11.6 | 1.2 | 0.183 | 0.138 | 0.01 | 564 |
| 91780 | 1.8 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 11.6 | 25 | 10.3 | 3.3 | 0.229 | 0.145 | 0.06 | 269 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Received Weight |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91781 | 3.7 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 35.6 | 21 | 31.9 | 2.3 | 0.301 | 0.284 | 0.04 | 487 |
| 91782 | 3.3 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 35.8 | 26 | 24.5 | 2.5 | 0.244 | 0.290 | 0.03 | 323 |
| 91783 | 2.0 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.45 | 24.8 | 21 | 19.0 | 1.6 | 0.221 | 0.144 | 0.02 | 454 |
| 91784 | 3.3 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 28.8 | 25 | 24.0 | 3.0 | 0.200 | 0.329 | 0.05 | 353 |
| 91785 | 2.8 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 43.7 | 25 | 32.2 | 1.6 | 0.156 | 0.223 | 0.02 | 198 |
| 91786 | 2.5 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 44.8 | 33 | 43.6 | 1.3 | 0.137 | 0.124 | 0.01 | 403 |
| 91787 | 2.7 | 0.3 | 2.1 | 3.1 | < 0.001 | 0.49 | 82.7 | 25 | 39.1 | 0.8 | 0.903 | 0.119 | 0.02 | 256 |
| 91788 | 2.2 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.48 | 28.7 | 23 | 18.4 | 2.0 | 0.503 | 0.205 | 0.02 | 308 |
| 91789 | 1.4 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.49 | 17.4 | 13 | 9.2 | 1.2 | 0.464 | 0.092 | 0.01 | 522 |
| 91790 | 1.9 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.55 | 20.0 | 18 | 12.5 | 1.7 | 0.620 | 0.193 | 0.02 | 360 |
| 91791 | 1.9 | 0.3 | 0.5 | 0.4 | < 0.001 | 0.45 | 18.3 | 20 | 13.0 | 1.5 | 0.972 | 0.226 | 0.01 | 705 |
| 91792 | 1.5 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.47 | 15.0 | 13 | 10.2 | 2.5 | 0.333 | 0.088 | 0.06 | 147 |
| 91793 | 1.8 | 0.2 | 0.2 | 1.3 | < 0.001 | 0.43 | 23.1 | 23 | 12.9 | 1.7 | 0.777 | 0.357 | 0.01 | 357 |
| 91794 | 1.7 | 0.2 | 1.2 | 1.2 | < 0.001 | 0.41 | 16.3 | 25 | 8.4 | 1.5 | 0.704 | 0.264 | 0.02 | 389 |
| 91795 | 1.9 | 0.2 | 0.5 | 0.4 | < 0.001 | 0.41 | 24.3 | 30 | 11.6 | 2.4 | 0.934 | 0.428 | 0.02 | 302 |
| 91796 | 1.2 | 0.1 | 0.3 | 0.3 | < 0.001 | 0.47 | 16.7 | 22 | 5.3 | 0.9 | 0.608 | 0.145 | < 0.01 | 426 |
| 91797 | 0.7 | < 0.1 | 2.6 | 1.2 | < 0.001 | 0.32 | 12.7 | 26 | 1.7 | 0.7 | 1.40 | 0.108 | 0.02 | 322 |
| 91798 | 2.0 | 0.3 | 0.2 | 0.3 | < 0.001 | 0.33 | 22.2 | 16 | 12.5 | 3.5 | 0.511 | 0.120 | 0.02 | 216 |
| 91799 | 8.8 | 1.1 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 63.2 | 22 | 68.6 | 8.4 | 0.0329 | 1.46 | 0.02 | 295 |
| 91800 | 1.0 | 0.1 | 0.6 | 0.9 | < 0.001 | 0.42 | 16.0 | 12 | 8.6 | 1.1 | 0.353 | 0.086 | 0.02 | 389 |
| 91801 | 1.1 | 0.2 | 0.6 | 0.8 | < 0.001 | 0.40 | 17.6 | 16 | 10.6 | 4.7 | 0.593 | 0.088 | 0.01 | 390 |
| 91802 | 1.0 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.41 | 15.6 | 13 | 8.0 | 1.0 | 0.599 | 0.069 | < 0.01 | 366 |
| 91803 | 1.6 | 0.2 | 0.2 | 0.3 | < 0.001 | 0.37 | 16.4 | 18 | 10.8 | 2.7 | 0.838 | 0.114 | 0.03 | 234 |
| 91804 | 1.6 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.45 | 16.8 | 19 | 11.9 | 1.2 | 0.798 | 0.144 | 0.01 | 440 |
| 91805 | 1.6 | 0.2 | 0.2 | 0.3 | < 0.001 | 0.31 | 13.9 | 19 | 10.8 | 1.5 | 0.746 | 0.150 | 0.02 | 527 |
| 91806 | 1.9 | 0.2 | 0.3 | 0.4 | < 0.001 | 0.41 | 18.6 | 19 | 14.6 | 1.4 | 0.721 | 0.221 | < 0.01 | 541 |
| 91807 | 1.3 | 0.1 | 2.5 | 3.3 | < 0.001 | 0.26 | 45.1 | 13 | 12.9 | 0.8 | 1.05 | 0.074 | 0.01 | 317 |
| 91808 | 4.1 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.40 | 166 | 39 | > 200 | 0.9 | 0.436 | 0.124 | 0.04 | 224 |
| 91809 | 2.3 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.32 | 17.2 | 20 | 14.8 | 2.5 | 0.569 | 0.217 | 0.02 | 401 |
| 91810 | 1.2 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.26 | 14.0 | 15 | 8.9 | 1.1 | 0.389 | 0.084 | < 0.01 | 408 |
| 91811 | 4.8 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.40 | 35.7 | 48 | 31.5 | 3.4 | 0.430 | 0.247 | 0.01 | 383 |
| 91812 | 3.2 | 0.4 | 1.2 | 1.8 | 0.004 | 0.34 | 20.9 | 20 | 16.6 | 3.0 | 0.830 | 0.350 | 0.02 | 217 |
| 91813 | 2.6 | 0.4 | 2.9 | 2.2 | < 0.001 | 0.35 | 17.2 | 18 | 14.1 | 2.4 | 0.734 | 0.302 | 0.02 | 365 |
| 91814 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 12.7 | 14 | 8.0 | 0.9 | 0.402 | 0.083 | 0.01 | 307 |
| 91826 | 1.2 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.25 | 12.4 | 17 | 7.6 | 1.0 | 0.461 | 0.089 | < 0.01 | 296 |
| 91827 | 1.2 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.33 | 15.0 | 16 | 8.2 | 1.3 | 0.747 | 0.094 | 0.01 | 340 |
| 91828 | 0.8 | < 0.1 | 2.4 | 1.4 | < 0.001 | 0.25 | 11.0 | 16 | 2.0 | 0.6 | 0.984 | 0.110 | 0.02 | 211 |
| 91829 | 1.4 | 0.1 | 2.1 | 1.6 | < 0.001 | 0.31 | 10.9 | 17 | 8.1 | 1.1 | 0.816 | 0.135 | 0.02 | 455 |
| 91830 | 1.3 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.39 | 12.3 | 16 | 8.0 | 1.1 | 0.452 | 0.109 | 0.01 | 403 |
| 91831 | 1.2 | 0.1 | 0.9 | 1.0 | < 0.001 | 0.42 | 19.7 | 14 | 10.0 | 1.1 | 0.560 | 0.112 | < 0.01 | 417 |
| 91832 | 1.8 | 0.2 | 0.1 | 0.2 | < 0.001 | 0.40 | 18.9 | 18 | 13.7 | 1.4 | 0.758 | 0.181 | 0.02 | 423 |
| 91833 | 1.3 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.41 | 18.0 | 14 | 10.1 | 1.2 | 0.784 | 0.091 | 0.02 | 305 |
| 91834 | 1.5 | 0.2 | 1.1 | 1.0 | < 0.001 | 0.52 | 18.9 | 14 | 10.7 | 1.5 | 0.481 | 0.139 | 0.02 | 541 |
| 91835 | 1.9 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.38 | 13.1 | 21 | 10.0 | 1.6 | 0.375 | 0.119 | 0.02 | 337 |
| 91836 | 1.1 | 0.1 | 3.6 | 2.5 | < 0.001 | 0.23 | 22.9 | 19 | 3.8 | 0.7 | 1.16 | 0.098 | 0.02 | 317 |
| 91837 | 2.1 | 0.3 | 0.3 | 0.2 | < 0.001 | 0.33 | 23.3 | 23 | 18.2 | 1.1 | 0.590 | 0.170 | 0.01 | 401 |
| 91838 | 2.7 | 0.3 | 0.3 | < 0.1 | < 0.001 | 0.34 | 28.9 | 28 | 28.1 | 2.4 | 0.481 | 0.255 | 0.01 | 311 |
| 91839 | 3.6 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 66.5 | 29 | 68.3 | 2.7 | 0.235 | 0.161 | 0.02 | 419 |
| 91840 | 4.8 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 45.4 | 33 | 55.5 | 9.8 | 0.591 | 0.413 | 0.01 | 245 |
| 91841 | 6.9 | 0.9 | 1.4 | < 0.1 | < 0.001 | 0.46 | 60.8 | 40 | 57.2 | 4.2 | 0.555 | 0.364 | 0.02 | 292 |
| 91842 | 4.3 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 43.9 | 37 | 35.4 | 3.4 | 0.280 | 0.190 | 0.02 | 225 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Received VWeight |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|---------------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | g |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | none |
| 91843 | 4.5 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 48.3 | 29 | 45.0 | 2.5 | 0.548 | 0.217 | 0.05 | 357 |
| 91844 | 3.3 | 0.3 | 0.6 | 0.5 | < 0.001 | 0.24 | 20.2 | 19 | 13.2 | 4.9 | 0.716 | 0.430 | 0.09 | 181 |
| 91845 | 4.8 | 0.6 | < 0.1 | 0.5 | < 0.001 | 0.29 | 37.9 | 19 | 30.4 | 4.2 | 0.567 | 0.419 | < 0.01 | 483 |
| 91846 | 3.8 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 29.7 | 18 | 22.2 | 6.5 | 0.416 | 0.237 | < 0.01 | 189 |
| 91847 | 5.0 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 34.8 | 27 | 38.1 | 6.9 | 0.541 | 0.078 | < 0.01 | 241 |
| 91848 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 10.4 | 18 | 9.6 | 1.8 | 0.898 | 0.168 | 0.02 | 349 |
| 91849 | 1.7 | 0.3 | < 0.1 | 0.5 | < 0.001 | 4.76 | 152 | 24 | 3.6 | 4.8 | 0.615 | 0.040 | 0.72 | 317 |
| 91850 | 5.3 | 0.7 | 1.7 | 0.1 | < 0.001 | 0.41 | 37.0 | 28 | 26.9 | 5.9 | 0.592 | 0.390 | 0.03 | 224 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---------|-------|--------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | | 8.1 | 0.05 | 0.20 | 2.07 | 0.04 | 0.84 | 2.5 | 76 | 9.7 | 827 | 23.8 | 0.4 | 42.5 | | | | 31.2 | 2.79 | 7.6 | 0.67 | 1580 | 16.4 | 767 |
| GXR-1 Cert | | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| GXR-4 Meas | | 11.6 | 0.56 | 1.58 | 6.11 | 3.85 | 1.03 | 0.2 | 85 | 38.7 | 143 | 3.10 | 1.3 | 44.8 | | | | 3.55 | 2.78 | 14.2 | 1.59 | 19.4 | 6.4 | 73.3 |
| GXR-4 Cert | | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| SDC-1 Meas | | 37.5 | 1.64 | 0.94 | 7.75 | 2.72 | 1.06 | < 0.1 | 31 | 42.9 | 848 | 4.89 | | 39.7 | | | | < 0.05 | | 18.4 | | 0.21 | | 107 |
| SDC-1 Cert | | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | | 38.0 | | | | 0.0410 | | 17.9 | | 2.60 | | 103 |
| SCO-1 Meas | | 46.5 | 0.75 | 1.48 | 6.68 | 2.11 | 1.88 | 0.2 | 118 | 53.3 | 363 | 3.55 | | 31.0 | | | | 0.13 | | 11.3 | | 0.32 | | 107 |
| SCO-1 Cert | | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | | 27.0 | | | | 0.134 | | 10.5 | | 0.370 | | 103 |
| GXR-6 Meas | | 34.6 | 0.10 | 0.44 | 9.98 | 1.64 | 0.15 | 0.1 | 152 | 67.2 | 976 | 5.18 | 2.3 | 27.0 | | | | 0.34 | 3.77 | 13.1 | 0.48 | 0.10 | 1.1 | 131 |
| GXR-6 Cert | | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | | | 1.40 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| DNC-1a Meas | | 5.0 | | | | | | | 147 | 159 | | | | 309 | | | | | | 58.3 | 0.63 | | | 69.4 |
| DNC-1a Cert | | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | 70.0 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | > 5000 | | | | 2480 | | | | 0.86 | | 78.7 | | | | 138 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | | 2247 | | | | 0.86 | | 75 | | | | 133 |
| CDN-GS-1F Meas | 1160 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1210 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | 1170 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | 1160.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 198 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 231 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | 214 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | 214.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 91513 Orig | | 47.0 | > 3.00 | 1.99 | 7.01 | 1.00 | 2.21 | 0.2 | 110 | 144 | 1670 | 8.25 | 2.1 | 129 | 5.8 | 8.6 | 2.2 | < 0.05 | 1.50 | 45.2 | 5.46 | 0.11 | 1.8 | 165 |
| 91513 Dup | | 44.2 | > 3.00 | 2.05 | 7.43 | 0.98 | 2.10 | 0.2 | 101 | 133 | 1680 | 8.26 | 1.5 | 124 | 5.6 | 9.1 | 2.0 | < 0.05 | 1.51 | 43.8 | 5.73 | 0.12 | 2.0 | 176 |
| 91527 Orig | | 8.5 | 0.42 | 0.68 | 1.19 | 0.25 | 4.22 | 0.5 | 60 | 65.6 | 1180 | 2.29 | < 0.1 | 43.0 | 2.9 | 1.9 | 1.2 | 0.15 | 0.75 | 11.7 | 3.63 | 0.04 | 1.5 | 116 |
| 91527 Dup | | 8.5 | 0.46 | 0.74 | 1.33 | 0.25 | 4.18 | 0.6 | 65 | 64.4 | 1270 | 2.38 | < 0.1 | 43.3 | 3.0 | 2.1 | 1.1 | 0.17 | 0.78 | 11.8 | 4.03 | 0.04 | 1.5 | 119 |
| 91530 Orig | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 91530 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91548 Orig | | 30.4 | 0.60 | 1.47 | 3.09 | 0.22 | 5.15 | 1.0 | 273 | 68.0 | 2560 | 12.1 | < 0.1 | 69.0 | 17.0 | 14.6 | 6.9 | 0.18 | 1.80 | 36.7 | 24.3 | 0.22 | 5.2 | 290 |
| 91548 Dup | | 29.3 | 0.58 | 1.47 | 3.07 | 0.21 | 4.75 | 1.0 | 266 | 79.9 | 2720 | 12.1 | 2.6 | 66.9 | 16.1 | 14.2 | 6.6 | < 0.05 | 1.88 | 37.3 | 25.1 | 0.22 | 5.2 | 285 |
| 91560 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91560 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91562 Orig | | 15.3 | 2.47 | 1.01 | 6.75 | 0.90 | 1.71 | 0.2 | 45 | 70.4 | 498 | 5.25 | 1.9 | 45.7 | 1.7 | 2.2 | 0.7 | 0.05 | 1.41 | 18.8 | 1.48 | < 0.02 | 0.6 | 43.7 |
| 91562 Dup | | 16.4 | 2.48 | 1.04 | 6.64 | 0.94 | 1.73 | 0.2 | 43 | 76.4 | 506 | 5.43 | 1.8 | 48.7 | 1.8 | 2.1 | 0.7 | 0.05 | 1.47 | 19.5 | 1.49 | < 0.02 | 0.9 | 46.5 |
| 91583 Orig | | 100 | 1.95 | 2.44 | 7.98 | 1.97 | 1.73 | < 0.1 | 45 | 129 | 896 | 9.96 | 0.5 | 137 | 4.5 | 19.6 | 1.8 | < 0.05 | 6.78 | 59.5 | 4.83 | 0.27 | 1.6 | 127 |
| 91583 Dup | | 100 | 1.92 | 2.46 | 7.84 | 1.92 | 1.66 | < 0.1 | 52 | 137 | 877 | 9.67 | 0.8 | 134 | 4.4 | 18.6 | 1.7 | < 0.05 | 6.66 | 58.5 | 4.73 | 0.27 | 1.5 | 124 |
| 91590 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91590 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91597 Orig | | 3.3 | 0.17 | 0.38 | 0.55 | 0.20 | 4.64 | 0.3 | 24 | 17.9 | 645 | 1.13 | < 0.1 | 11.8 | 1.6 | 2.7 | 0.7 | 0.10 | 0.60 | 3.3 | 1.83 | < 0.02 | 0.9 | 35.8 |
| 91597 Dup | | 2.9 | 0.14 | 0.35 | 0.49 | 0.18 | 4.58 | 0.3 | 20 | 16.1 | 597 | 1.02 | 0.9 | 9.1 | 1.4 | 2.4 | 0.6 | < 0.05 | 0.57 | 3.0 | 1.68 | < 0.02 | 0.8 | 31.1 |
| 91618 Orig | | 88.7 | 1.96 | 2.00 | 5.32 | 0.59 | 2.06 | 0.3 | 153 | 220 | 2000 | 9.49 | 0.1 | 104 | 8.6 | 22.4 | 3.6 | < 0.05 | 5.99 | 33.8 | 10.5 | 0.43 | 2.5 | 202 |
| 91618 Dup | | 89.5 | 1.79 | 2.10 | 5.16 | 0.57 | 1.90 | 0.3 | 134 | 213 | 2010 | 9.51 | < 0.1 | 103 | 7.9 | 19.9 | 3.2 | < 0.05 | 6.07 | 33.8 | 10.7 | 0.42 | 2.5 | 203 |
| 91635 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91635 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91644 Orig | | 24.8 | 2.58 | 1.40 | 6.81 | 1.90 | 1.60 | 0.1 | 48 | 83.2 | 632 | 4.29 | 3.1 | 64.1 | 1.5 | 1.9 | 0.6 | 0.05 | 1.93 | 17.4 | 1.37 | < 0.02 | 0.5 | 57.3 |
| 91644 Dup | | 25.7 | 2.62 | 1.41 | 6.94 | 1.94 | 1.65 | 0.1 | 63 | 87.2 | 639 | 4.39 | 3.6 | 65.2 | 1.5 | 1.7 | 0.6 | 0.06 | 1.95 | 17.8 | 1.38 | < 0.02 | 0.8 | 59.4 |
| 91658 Orig | | 14.2 | 1.36 | 1.01 | 3.46 | 0.59 | 3.83 | 0.2 | 89 | 84.8 | 641 | 3.25 | < 0.1 | 58.6 | 1.6 | 1.7 | 0.6 | < 0.05 | 0.94 | 15.8 | 1.72 | < 0.02 | 1.1 | 64.5 |
| 91658 Dup | | 14.9 | 1.24 | 0.99 | 3.25 | 0.59 | 3.72 | 0.2 | 87 | 84.4 | 700 | 3.15 | < 0.1 | 56.7 | 1.5 | 1.6 | 0.6 | 0.05 | 0.93 | 15.7 | 1.86 | < 0.02 | 1.0 | 66.1 |
| 91665 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91665 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 91679 Orig | | 21.6 | 2.69 | 2.69 | 5.68 | 1.22 | 5.33 | 0.5 | 173 | 123 | 2430 | 8.40 | 1.6 | 120 | 5.2 | 7.1 | 2.2 | 0.07 | 1.77 | 39.6 | 7.80 | 0.14 | 1.4 | 179 |
| 91679 Dup | | 21.5 | 2.56 | 2.61 | 5.70 | 1.23 | 5.27 | 0.5 | 166 | 144 | 2380 | 8.26 | 2.0 | 119 | 5.0 | 7.5 | 2.1 | 0.07 | 1.77 | 39.0 | 7.59 | 0.15 | 1.5 | 162 |

Activation Laboratories Ltd. Report: A11-7308

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | |
| GXR-1 Meas | 7.2 | 427 | 2.8 | 31.5 | 303 | 21 | 0.5 | 17.3 | 0.8 | 30 | 18.8 | 9.5 | 725 | 7.7 | 15.0 | | 8.7 | 3.0 | 4.5 | 0.8 | 5.1 | 1070 | | 0.4 | |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 | |
| GXR-4 Meas | 17.1 | 106 | 187 | 15.7 | 238 | 45 | 9.6 | 325 | 0.2 | 8 | 6.2 | 1.3 | 96 | 60.8 | 113 | | 43.4 | 6.8 | 5.2 | 0.6 | 3.1 | 6340 | | 0.2 | |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 | |
| SDC-1 Meas | | 1.1 | | 36.6 | 191 | 33 | | 0.1 | | < 1 | < 0.1 | | 674 | | | | | | | | | | | 30.8 | |
| SDC-1 Cert | | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | | | | 30.0 |
| SCO-1 Meas | | 11.9 | | 23.1 | 187 | 103 | | 0.5 | | 2 | 0.2 | | 597 | | | | | | | | | | | | 28.5 |
| SCO-1 Cert | | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | | | | 28.7 |
| GXR-6 Meas | 24.4 | 279 | 77.9 | 9.9 | 35.5 | 90 | 2.7 | 1.2 | < 0.1 | 1 | 2.1 | < 0.1 | 1130 | 8.3 | 23.1 | | 8.9 | 1.9 | 1.8 | 0.3 | 1.8 | 67.2 | | 0.2 | |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 | |
| DNC-1a Meas | | | | 18.7 | 157 | 41 | | | | | 1.1 | | 109 | | 4.1 | | | 5.1 | | | | | | | 97.6 |
| DNC-1a Cert | | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | | 3.60 | | | 5.20 | | | | | | | 100 |
| OREAS 13b (4-Acid) Meas | | 55.7 | | | | | | 10.3 | | | | | | | | | | | | | | | | | 2210 |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | | | | 2300.000 |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91513 Orig | 16.2 | 3.6 | 47.7 | 59.8 | 465 | 145 | 1.1 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 605 | 123 | 407 | 33.7 | 125 | 22.8 | 15.5 | 2.0 | 11.1 | 91.7 | 0.6 | 0.8 | |
| 91513 Dup | 17.2 | 3.0 | 44.0 | 58.7 | 443 | 115 | 0.9 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 591 | 118 | 395 | 33.6 | 131 | 24.1 | 16.5 | 2.0 | 10.6 | 89.4 | 0.6 | 0.7 | |
| 91527 Orig | 4.8 | 2.4 | 13.5 | 34.0 | 321 | 6 | 4.0 | 14.1 | < 0.1 | < 1 | 0.2 | < 0.1 | 242 | 168 | 229 | 31.7 | 101 | 13.7 | 9.4 | 1.1 | 6.2 | 44.5 | 0.4 | 0.4 | |
| 91527 Dup | 5.7 | 2.2 | 13.6 | 35.5 | 327 | 5 | 2.6 | 14.4 | < 0.1 | < 1 | 0.2 | < 0.1 | 246 | 169 | 235 | 33.8 | 110 | 15.2 | 10.6 | 1.2 | 6.2 | 44.2 | 0.4 | 0.4 | |
| 91530 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91530 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91548 Orig | 13.4 | 3.6 | 22.4 | 180 | 423 | 2 | 0.4 | 2.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 634 | 648 | 814 | 148 | 549 | 91.1 | 68.7 | 8.0 | 40.2 | 74.1 | 2.0 | 2.1 | |
| 91548 Dup | 13.1 | 3.9 | 19.0 | 174 | 387 | 285 | 143 | 3.7 | 0.2 | 3 | < 0.1 | 0.2 | 627 | 617 | 776 | 142 | 549 | 92.6 | 71.2 | 8.1 | 39.3 | 67.7 | 2.5 | 2.1 | |
| 91560 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91560 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91562 Orig | 14.3 | 0.3 | 59.5 | 15.6 | 252 | 83 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 446 | 36.8 | 73.1 | 7.8 | 27.6 | 5.0 | 4.7 | 0.6 | 3.6 | 21.0 | 0.2 | 0.2 | |
| 91562 Dup | 14.7 | 0.6 | 62.8 | 16.5 | 260 | 85 | 2.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 467 | 38.9 | 78.4 | 8.4 | 29.1 | 5.2 | 4.8 | 0.7 | 3.7 | 23.3 | 0.3 | 0.2 | |
| 91583 Orig | 17.8 | 0.8 | 59.0 | 47.7 | 621 | 32 | 0.8 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 1150 | 66.3 | 138 | 18.9 | 76.0 | 15.3 | 13.5 | 1.9 | 9.8 | 314 | 0.3 | 0.6 | |
| 91583 Dup | 18.9 | 1.1 | 57.3 | 47.8 | 600 | 46 | 0.7 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 1130 | 65.0 | 137 | 19.1 | 76.1 | 15.1 | 13.6 | 1.8 | 9.5 | 307 | 0.3 | 0.6 | |
| 91590 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91590 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91597 Orig | 1.5 | 1.2 | 25.7 | 17.6 | 186 | 2 | 3.0 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 134 | 35.9 | 82.0 | 8.7 | 32.9 | 6.0 | 5.6 | 0.8 | 3.8 | 21.9 | 0.1 | 0.2 | |
| 91597 Dup | 1.1 | 1.0 | 23.9 | 15.0 | 170 | 56 | 77.7 | 1.9 | < 0.1 | 1 | 0.3 | < 0.1 | 123 | 32.9 | 73.7 | 7.8 | 29.0 | 5.5 | 5.1 | 0.7 | 3.5 | 19.9 | 0.1 | 0.2 | |
| 91618 Orig | 14.9 | 1.7 | 60.1 | 90.2 | 728 | 33 | 110 | 0.6 | 0.3 | 3 | < 0.1 | < 0.1 | 620 | 301 | 676 | 64.5 | 227 | 37.4 | 28.7 | 3.8 | 19.9 | 60.8 | 0.8 | 1.1 | |
| 91618 Dup | 15.9 | 2.1 | 60.5 | 85.2 | 657 | 8 | 23.0 | 0.3 | 0.3 | 1 | < 0.1 | < 0.1 | 604 | 297 | 662 | 64.3 | 227 | 37.4 | 28.6 | 3.6 | 18.8 | 61.2 | 0.8 | 1.0 | |
| 91635 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91635 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91644 Orig | 13.5 | 1.9 | 90.9 | 15.9 | 277 | 136 | 2.6 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 695 | 39.4 | 75.0 | 8.8 | 30.9 | 5.2 | 4.6 | 0.6 | 3.1 | 24.9 | 0.4 | 0.2 | |
| 91644 Dup | 13.8 | 1.8 | 94.4 | 16.0 | 287 | 154 | 2.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 705 | 38.7 | 74.6 | 8.7 | 30.1 | 5.2 | 4.5 | 0.6 | 3.2 | 25.6 | 0.3 | 0.2 | |
| 91658 Orig | 8.8 | 1.6 | 36.2 | 18.1 | 237 | 16 | 14.8 | 2.1 | < 0.1 | < 1 | 0.1 | < 0.1 | 511 | 54.6 | 93.9 | 11.4 | 39.5 | 6.1 | 4.7 | 0.6 | 3.1 | 51.0 | 0.3 | 0.2 | |
| 91658 Dup | 8.5 | 1.1 | 36.1 | 18.9 | 222 | 8 | 10.1 | 1.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 516 | 53.8 | 92.0 | 11.3 | 39.2 | 6.3 | 5.0 | 0.6 | 3.2 | 48.8 | 0.3 | 0.2 | |
| 91665 Orig | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91665 Dup | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91679 Orig | 13.8 | 2.6 | 62.8 | 60.3 | 366 | 156 | 24.5 | 2.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 697 | 171 | 338 | 40.1 | 152 | 26.0 | 22.3 | 2.6 | 12.6 | 53.1 | 0.7 | 0.7 | |
| 91679 Dup | 12.8 | 2.9 | 62.7 | 56.8 | 353 | 178 | 25.5 | 2.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 693 | 167 | 327 | 39.0 | 145 | 25.2 | 22.7 | 2.7 | 12.5 | 53.3 | 0.6 | 0.6 | |

| Quality Control | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 2.1 | 0.2 | < 0.1 | 130 | | 0.39 | 782 | 1 | 2.9 | 32.9 | | 0.059 | 0.25 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| GXR-4 Meas | 1.1 | 0.1 | 0.6 | 37.2 | | 3.45 | 49.7 | 8 | 17.7 | 5.6 | | 0.135 | 1.76 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| SDC-1 Meas | | | | 0.3 | | | 24.2 | 16 | | | 0.189 | 0.056 | 0.06 |
| SDC-1 Cert | | | | 0.800 | | | 25.0 | 17.0 | | | 0.606 | 0.0590 | 0.0650 |
| SCO-1 Meas | | | | 0.5 | | | 32.0 | 12 | | | 0.328 | 0.084 | |
| SCO-1 Cert | | | | 1.40 | | | 31.0 | 10.8 | | | 0.380 | 0.0900 | |
| GXR-6 Meas | 1.2 | 0.1 | 0.2 | 1.4 | | 2.10 | 97.7 | 31 | 3.3 | 1.0 | | 0.039 | 0.02 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 |
| DNC-1a Meas | 1.9 | | | | | | | 33 | | | | | |
| DNC-1a Cert | 2.00 | | | | | | | 31.0 | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.17 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| CDN-GS-1F Meas | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | |
| 91513 Orig | 3.4 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.29 | 28.5 | 23 | 24.4 | 2.5 | 0.330 | 0.251 | 0.01 |
| 91513 Dup | 3.5 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 29.7 | 23 | 24.9 | 2.4 | 0.220 | 0.222 | < 0.01 |
| 91527 Orig | 1.9 | 0.2 | < 0.1 | 2.1 | < 0.001 | 0.15 | 11.1 | 8 | 9.3 | 8.4 | 0.276 | 0.170 | 0.16 |
| 91527 Dup | 2.1 | 0.3 | < 0.1 | 2.2 | < 0.001 | 0.15 | 12.3 | 8 | 10.0 | 8.6 | 0.280 | 0.170 | 0.16 |
| 91530 Orig | | | | | | | | | | | | | |
| 91530 Dup | | | | | | | | | | | | | |
| 91548 Orig | 11.3 | 1.4 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 55.8 | 31 | 53.2 | 7.4 | 0.108 | 1.39 | 0.02 |
| 91548 Dup | 11.3 | 1.4 | 4.5 | 0.8 | < 0.001 | 0.16 | 56.8 | 33 | 58.8 | 7.2 | 0.340 | 1.46 | 0.04 |
| 91560 Orig | | | | | | | | | | | | | |
| 91560 Dup | | | | | | | | | | | | | |
| 91562 Orig | 1.1 | 0.1 | < 0.1 | 1.5 | < 0.001 | 0.23 | 9.8 | 15 | 5.2 | 0.9 | 0.251 | 0.040 | 0.02 |
| 91562 Dup | 1.2 | 0.1 | 0.1 | 1.5 | < 0.001 | 0.23 | 9.9 | 15 | 5.5 | 0.9 | 0.287 | 0.041 | 0.02 |
| 91583 Orig | 3.4 | 0.4 | < 0.1 | 0.6 | < 0.001 | 0.73 | 25.1 | 37 | 9.0 | 0.9 | 0.313 | 0.019 | 0.01 |
| 91583 Dup | 3.6 | 0.4 | < 0.1 | 0.6 | < 0.001 | 0.75 | 25.4 | 38 | 8.4 | 0.9 | 0.352 | 0.020 | 0.01 |
| 91590 Orig | | | | | | | | | | | | | |
| 91590 Dup | | | | | | | | | | | | | |
| 91597 Orig | 1.1 | 0.1 | < 0.1 | 0.5 | < 0.001 | 0.08 | 10.6 | 3 | 6.2 | 13.5 | 0.0619 | 0.277 | 0.24 |
| 91597 Dup | 0.9 | 0.1 | 3.6 | 0.9 | < 0.001 | 0.06 | 9.4 | 2 | 7.6 | 13.0 | 0.0768 | 0.256 | 0.24 |
| 91618 Orig | 6.0 | 0.7 | 2.1 | 0.3 | < 0.001 | 0.61 | 74.1 | 38 | 68.0 | 5.0 | 0.397 | 0.302 | 0.04 |
| 91618 Dup | 5.6 | 0.7 | 0.4 | < 0.1 | < 0.001 | 0.64 | 72.4 | 39 | 66.6 | 4.9 | 0.273 | 0.261 | 0.04 |
| 91635 Orig | | | | | | | | | | | | | |
| 91635 Dup | | | | | | | | | | | | | |
| 91644 Orig | 1.2 | 0.1 | 0.1 | 0.5 | < 0.001 | 0.46 | 14.4 | 13 | 8.3 | 1.3 | 0.234 | 0.068 | < 0.01 |
| 91644 Dup | 1.2 | 0.1 | < 0.1 | 0.5 | < 0.001 | 0.47 | 14.6 | 14 | 8.1 | 1.2 | 0.336 | 0.074 | < 0.01 |
| 91658 Orig | 1.2 | 0.1 | 0.6 | 0.9 | < 0.001 | 0.19 | 7.3 | 11 | 5.8 | 2.1 | 0.469 | 0.111 | 0.12 |
| 91658 Dup | 1.2 | 0.1 | 0.3 | 0.6 | < 0.001 | 0.18 | 7.3 | 11 | 5.6 | 2.2 | 0.480 | 0.103 | 0.11 |
| 91665 Orig | | | | | | | | | | | | | |
| 91665 Dup | | | | | | | | | | | | | |
| 91679 Orig | 3.8 | 0.5 | 0.4 | 1.5 | < 0.001 | 0.35 | 29.7 | 20 | 22.2 | 2.8 | 0.683 | 0.413 | 0.02 |
| 91679 Dup | 3.5 | 0.5 | 0.7 | 0.9 | < 0.001 | 0.35 | 29.5 | 19 | 21.8 | 2.7 | 0.620 | 0.407 | 0.02 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 91693 Orig | 1.5 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.33 | 18.6 | 15 | 23.1 | 1.9 | 0.229 | 0.067 | 0.01 |
| 91693 Dup | 1.6 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.32 | 15.9 | 16 | 11.4 | 1.4 | 0.162 | 0.065 | 0.01 |
| 91695 Orig | | | | | | | | | | | | | |
| 91695 Dup | | | | | | | | | | | | | |
| 91714 Orig | 3.8 | 0.5 | 0.2 | < 0.1 | < 0.001 | 0.28 | 24.2 | 24 | 29.1 | 4.7 | 0.373 | 0.207 | < 0.01 |
| 91714 Dup | 3.7 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 24.3 | 24 | 29.0 | 4.6 | 0.286 | 0.172 | < 0.01 |
| 91753 Orig | 1.2 | 0.1 | < 0.1 | 0.2 | < 0.001 | 0.24 | 12.6 | 16 | 7.2 | 0.9 | 0.219 | 0.109 | < 0.01 |
| 91753 Dup | 1.5 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.27 | 14.2 | 16 | 8.3 | 1.0 | 0.169 | 0.105 | < 0.01 |
| 91765 Orig | | | | | | | | | | | | | |
| 91765 Dup | | | | | | | | | | | | | |
| 91774 Orig | 5.4 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 38.3 | 23 | 30.9 | 7.0 | 0.191 | 0.935 | < 0.01 |
| 91774 Dup | 5.3 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 37.8 | 24 | 31.8 | 6.8 | 0.209 | 0.941 | < 0.01 |
| 91795 Orig | | | | | | | | | | | | | |
| 91795 Dup | | | | | | | | | | | | | |
| 91800 Orig | 1.1 | 0.1 | 0.6 | 0.9 | < 0.001 | 0.41 | 16.0 | 12 | 9.3 | 1.1 | 0.358 | 0.089 | 0.02 |
| 91800 Dup | 1.0 | 0.1 | 0.6 | 0.9 | < 0.001 | 0.42 | 15.9 | 11 | 8.0 | 1.1 | 0.348 | 0.083 | 0.02 |
| 91814 Orig | 1.1 | 0.1 | < 0.1 | 0.1 | < 0.001 | 0.28 | 12.7 | 14 | 8.0 | 0.9 | 0.505 | 0.083 | 0.01 |
| 91814 Dup | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 12.8 | 15 | 7.9 | 0.9 | 0.298 | 0.083 | 0.01 |
| 91836 Orig | | | | | | | | | | | | | |
| 91836 Dup | | | | | | | | | | | | | |
| 91846 Orig | 3.8 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 29.5 | 18 | 20.8 | 6.3 | 0.284 | 0.172 | 0.01 |
| 91846 Dup | 3.9 | 0.5 | < 0.1 | 0.5 | < 0.001 | 0.26 | 29.9 | 17 | 23.6 | 6.6 | 0.548 | 0.301 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | 0.0007 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 1 | < 0.1 | < 0.1 | < 0.0005 | < 0.001 | < 0.01 |
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Date Submitted: 06-Sep-11
Invoice No.: A11-9924
Invoice Date: 05-Oct-11
Your Reference: BATCH #6

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

667 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A11-9924**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 101976 | 24.5 | > 3.00 | 2.54 | 7.30 | 1.12 | 1.82 | 0.4 | 106 | 160 | 1620 | 8.79 | 2.0 | 159 | 2.7 | 3.5 | 1.0 | 0.23 | 1.38 | 58.8 | 2.71 | 0.08 | 1.9 | 157 | 23.9 |
| 101977 | 22.4 | > 3.00 | 2.04 | 6.53 | 0.61 | 2.26 | 0.2 | 68 | 144 | 799 | 7.05 | 1.3 | 132 | 2.3 | 2.8 | 0.9 | 0.15 | 1.26 | 44.2 | 2.42 | 0.06 | 2.0 | 88.0 | 19.3 |
| 101978 | 21.9 | > 3.00 | 2.98 | 7.43 | 0.87 | 2.34 | < 0.1 | 82 | 120 | 1160 | 6.77 | 1.3 | 94.1 | 3.6 | 3.9 | 1.4 | 0.08 | 1.19 | 40.6 | 2.00 | 0.06 | 1.7 | 101 | 20.8 |
| 101979 | 17.2 | > 3.00 | 1.48 | 7.21 | 1.05 | 1.01 | < 0.1 | 65 | 91.6 | 697 | 5.21 | 1.0 | 64.4 | 1.6 | 2.7 | 0.6 | < 0.05 | 1.36 | 24.9 | 1.57 | 0.05 | 0.8 | 59.9 | 19.0 |
| 101980 | 20.7 | > 3.00 | 2.01 | 7.76 | 0.67 | 0.61 | < 0.1 | 83 | 133 | 887 | 7.23 | 2.4 | 92.4 | 1.6 | 3.0 | 0.6 | < 0.05 | 1.47 | 39.0 | 1.63 | 0.04 | 0.8 | 75.3 | 21.0 |
| 101981 | 20.9 | > 3.00 | 2.03 | 7.45 | 0.76 | 1.02 | < 0.1 | 81 | 131 | 1040 | 6.58 | 1.9 | 90.5 | 1.9 | 3.1 | 0.7 | < 0.05 | 1.27 | 38.6 | 1.52 | 0.04 | 1.3 | 86.4 | 20.2 |
| 101982 | 22.3 | > 3.00 | 1.64 | 7.51 | 0.76 | 1.11 | < 0.1 | 102 | 163 | 1240 | 7.93 | 1.5 | 94.7 | 2.7 | 4.7 | 1.1 | < 0.05 | 1.31 | 35.9 | 3.45 | 0.07 | 1.5 | 134 | 22.1 |
| 101983 | 26.4 | 2.83 | 1.11 | 6.51 | 1.45 | 1.21 | 0.1 | 76 | 127 | 893 | 4.46 | 3.0 | 83.4 | 2.0 | 3.0 | 0.8 | < 0.05 | 1.80 | 37.8 | 2.47 | 0.08 | 1.1 | 88.2 | 17.0 |
| 101984 | 27.1 | 2.60 | 1.73 | 6.62 | 1.59 | 1.68 | 0.1 | 88 | 131 | 582 | 4.91 | 3.0 | 84.7 | 2.1 | 2.5 | 0.8 | < 0.05 | 1.88 | 22.9 | 1.93 | 0.07 | 1.1 | 95.4 | 18.0 |
| 101985 | 24.9 | > 3.00 | 1.36 | 3.51 | 0.96 | 1.04 | 0.2 | 181 | 150 | 1190 | 7.02 | 5.4 | 82.2 | 1.7 | 3.2 | 0.6 | < 0.05 | 1.24 | 34.0 | 1.24 | 0.09 | 1.5 | 109 | 20.4 |
| 101986 | 23.3 | 2.59 | 1.13 | 6.94 | 1.63 | 1.39 | < 0.1 | 70 | 83.1 | 591 | 3.64 | 5.2 | 39.9 | 1.5 | 1.6 | 0.5 | < 0.05 | 1.92 | 14.7 | 1.12 | 0.09 | 1.0 | 51.8 | 19.1 |
| 101987 | 24.1 | 2.30 | 1.02 | 7.01 | 1.81 | 1.10 | < 0.1 | 67 | 65.0 | 420 | 3.70 | 3.6 | 35.1 | 1.1 | 1.6 | 0.4 | < 0.05 | 2.22 | 11.7 | 0.87 | 0.08 | 1.0 | 49.4 | 19.2 |
| 101988 | 22.7 | 2.37 | 1.10 | 6.77 | 1.92 | 1.44 | < 0.1 | 56 | 65.5 | 504 | 3.33 | 4.6 | 37.8 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.91 | 12.0 | 1.06 | 0.08 | 0.7 | 51.2 | 16.3 |
| 101989 | 19.1 | 2.48 | 0.93 | 6.79 | 1.92 | 1.36 | < 0.1 | 45 | 56.6 | 487 | 3.23 | 4.0 | 31.6 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.68 | 11.5 | 0.96 | 0.07 | 0.3 | 49.1 | 16.5 |
| 101990 | 15.1 | > 3.00 | 0.78 | 6.61 | 1.63 | 1.22 | < 0.1 | 33 | 73.5 | 333 | 3.96 | 2.8 | 29.4 | 1.2 | 1.9 | 0.4 | < 0.05 | 1.30 | 9.9 | 1.03 | 0.05 | 0.4 | 35.1 | 18.7 |
| 101991 | 24.0 | 2.90 | 1.28 | 7.12 | 1.71 | 1.01 | 0.1 | 47 | 71.1 | 346 | 4.23 | 0.6 | 43.8 | 1.4 | 1.8 | 0.5 | < 0.05 | 2.17 | 13.9 | 1.29 | 0.08 | 0.7 | 73.0 | 21.5 |
| 101992 | 16.4 | 2.53 | 0.92 | 6.25 | 1.52 | 1.29 | < 0.1 | 71 | 67.5 | 491 | 3.89 | < 0.1 | 27.8 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.45 | 12.0 | 1.18 | 0.08 | 0.8 | 46.1 | 16.0 |
| 101993 | 9.3 | 2.93 | 0.54 | 6.51 | 1.42 | 1.59 | < 0.1 | 51 | 49.0 | 353 | 3.53 | 2.7 | 17.6 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.27 | 8.5 | 1.07 | 0.06 | 0.5 | 64.8 | 18.7 |
| 101994 | 18.4 | 2.93 | 0.87 | 6.87 | 1.40 | 1.23 | 0.1 | 90 | 110 | 567 | 5.73 | < 0.1 | 31.6 | 1.4 | 3.6 | 0.5 | < 0.05 | 1.37 | 15.7 | 1.10 | 0.06 | 0.7 | 59.6 | 18.1 |
| 101995 | 20.2 | 2.69 | 0.95 | 4.40 | 1.26 | 1.08 | 0.1 | 93 | 113 | 483 | 4.41 | 5.1 | 44.5 | 1.1 | 2.2 | 0.4 | < 0.05 | 1.40 | 17.3 | 0.79 | 0.06 | 0.6 | 47.7 | 16.0 |
| 101996 | 25.2 | > 3.00 | 1.25 | 6.94 | 1.30 | 0.85 | 0.1 | 72 | 151 | 268 | 5.17 | 2.9 | 64.4 | 1.2 | 4.1 | 0.5 | < 0.05 | 2.04 | 17.0 | 1.45 | 0.06 | 0.3 | 94.4 | 19.8 |
| 101997 | 20.7 | > 3.00 | 1.13 | 6.97 | 1.63 | 1.22 | < 0.1 | 60 | 104 | 582 | 4.35 | 2.8 | 54.1 | 1.4 | 2.8 | 0.5 | < 0.05 | 1.61 | 18.4 | 1.32 | 0.06 | 0.4 | 58.3 | 16.6 |
| 101998 | 16.8 | > 3.00 | 0.92 | 6.46 | 1.33 | 1.09 | < 0.1 | 52 | 110 | 473 | 5.28 | 1.1 | 44.7 | 1.5 | 2.8 | 0.5 | < 0.05 | 1.29 | 19.1 | 1.34 | 0.03 | 0.8 | 49.8 | 17.6 |
| 101999 | 16.6 | > 3.00 | 0.77 | 6.70 | 1.37 | 1.01 | < 0.1 | 35 | 90.1 | 653 | 4.61 | 2.4 | 40.2 | 1.2 | 3.0 | 0.4 | < 0.05 | 1.58 | 20.1 | 1.23 | 0.03 | 0.9 | 51.0 | 19.0 |
| 102000 | 28.5 | > 3.00 | 2.71 | 6.75 | 1.42 | 2.42 | < 0.1 | 48 | 174 | 991 | 6.62 | 1.0 | 117 | 2.3 | 5.8 | 0.9 | < 0.05 | 2.50 | 36.3 | 2.52 | 0.04 | 1.1 | 96.3 | 20.0 |
| 100740 | 10.2 | > 3.00 | 0.84 | 6.76 | 1.47 | 0.64 | < 0.1 | 27 | 85.0 | 467 | 6.76 | 1.1 | 39.0 | 1.5 | 2.8 | 0.6 | < 0.05 | 1.81 | 18.5 | 2.56 | 0.07 | 0.7 | 60.6 | 21.5 |
| 100741 | 15.3 | 2.89 | 0.92 | 6.47 | 1.68 | 1.25 | < 0.1 | 34 | 72.2 | 468 | 3.89 | 2.8 | 40.5 | 1.2 | 2.1 | 0.5 | < 0.05 | 1.30 | 14.4 | 1.19 | 0.05 | < 0.1 | 47.9 | 15.9 |
| 100742 | 49.0 | > 3.00 | 2.73 | > 10.0 | 1.94 | 1.87 | 0.5 | 260 | 269 | 2920 | 16.8 | 6.7 | 159 | 4.5 | 8.5 | 1.7 | < 0.05 | 3.07 | 77.4 | 5.42 | 0.12 | 2.2 | 220 | 38.8 |
| 100743 | 15.2 | > 3.00 | 1.70 | 7.13 | 0.44 | 1.01 | < 0.1 | 56 | 138 | 874 | 7.67 | 1.3 | 88.1 | 1.5 | 2.7 | 0.6 | < 0.05 | 1.21 | 40.4 | 2.20 | 0.02 | 1.0 | 84.1 | 20.6 |
| 100744 | 20.8 | > 3.00 | 1.92 | 4.63 | 1.03 | 1.53 | 0.1 | 158 | 172 | 983 | 6.68 | 3.8 | 90.3 | 1.7 | 4.1 | 0.7 | < 0.05 | 1.41 | 35.9 | 1.82 | 0.02 | 0.6 | 80.1 | 16.5 |
| 100745 | 20.9 | > 3.00 | 2.13 | 7.22 | 1.07 | 1.36 | 0.1 | 113 | 173 | 1510 | 8.10 | 2.5 | 99.8 | 2.6 | 4.3 | 1.0 | < 0.05 | 1.71 | 41.5 | 2.87 | 0.04 | 1.3 | 96.4 | 21.3 |
| 100746 | 22.5 | > 3.00 | 1.53 | 7.12 | 1.44 | 1.02 | < 0.1 | 37 | 127 | 874 | 5.35 | 0.5 | 88.6 | 2.1 | 4.7 | 0.8 | 0.09 | 1.96 | 27.8 | 2.36 | 0.07 | 0.6 | 68.5 | 17.2 |
| 100747 | 26.8 | > 3.00 | 2.24 | 6.50 | 1.03 | 1.41 | 0.2 | 111 | 179 | 1960 | 9.33 | < 0.1 | 129 | 3.5 | 5.2 | 1.5 | < 0.05 | 2.17 | 71.9 | 5.31 | 0.19 | 1.2 | 112 | 19.8 |
| 100748 | 13.7 | > 3.00 | 0.66 | 6.36 | 1.48 | 1.13 | < 0.1 | 21 | 71.1 | 564 | 4.36 | 1.5 | 28.4 | 1.3 | 2.6 | 0.5 | < 0.05 | 1.27 | 16.6 | 1.48 | 0.04 | 0.8 | 36.1 | 15.0 |
| 100749 | 11.3 | > 3.00 | 0.60 | 6.03 | 1.45 | 1.09 | < 0.1 | 25 | 77.9 | 405 | 4.03 | 2.1 | 26.4 | 1.3 | 2.0 | 0.5 | < 0.05 | 1.34 | 11.1 | 1.18 | 0.04 | 0.4 | 38.0 | 15.4 |
| 100750 | 19.5 | 2.98 | 1.16 | 5.92 | 1.15 | 1.59 | < 0.1 | 44 | 102 | 559 | 4.58 | 1.2 | 58.8 | 1.9 | 3.3 | 0.7 | 0.15 | 1.84 | 20.4 | 1.78 | 0.07 | 0.6 | 60.9 | 14.9 |
| 91726 | 23.3 | 2.51 | 1.12 | 6.59 | 1.93 | 1.46 | < 0.1 | 50 | 64.8 | 610 | 3.51 | 3.5 | 42.5 | 1.5 | 1.7 | 0.5 | < 0.05 | 1.76 | 14.8 | 1.03 | 0.07 | 0.7 | 49.9 | 17.5 |
| 91727 | 6.0 | > 3.00 | 0.63 | 4.83 | 0.11 | 0.18 | < 0.1 | 131 | 52.5 | 289 | 8.39 | 5.2 | 39.4 | 0.3 | 0.9 | < 0.1 | < 0.05 | 0.38 | 23.3 | 0.46 | 0.04 | 0.8 | 62.1 | 23.3 |
| 91728 | 21.5 | 2.49 | 1.09 | 6.49 | 1.79 | 1.42 | < 0.1 | 69 | 71.1 | 699 | 3.97 | 4.3 | 43.5 | 1.5 | 1.7 | 0.6 | < 0.05 | 1.78 | 17.6 | 1.20 | 0.07 | 0.6 | 50.2 | 14.5 |
| 91729 | 25.7 | > 3.00 | 1.30 | 7.24 | 1.17 | 0.97 | < 0.1 | 61 | 146 | 597 | 5.71 | 2.5 | 74.8 | 1.6 | 3.9 | 0.6 | < 0.05 | 1.86 | 26.7 | 1.87 | 0.05 | 1.1 | 64.3 | 19.9 |
| 91730 | 24.5 | > 3.00 | 1.44 | 6.90 | 0.97 | 0.82 | < 0.1 | 39 | 146 | 740 | 6.27 | 0.3 | 91.3 | 1.8 | 5.3 | 0.7 | < 0.05 | 2.41 | 31.4 | 2.07 | 0.06 | 0.8 | 80.4 | 17.7 |
| 91731 | 28.8 | > 3.00 | 1.82 | 6.68 | 0.80 | 0.73 | < 0.1 | 33 | 131 | 875 | 7.81 | 0.3 | 92.3 | 1.5 | 4.5 | 0.6 | < 0.05 | 1.81 | 42.8 | 1.85 | 0.05 | 0.1 | 85.4 | 17.8 |
| 91732 | 27.1 | > 3.00 | 1.85 | 6.76 | 1.29 | 0.93 | < 0.1 | 47 | 173 | 814 | 7.13 | 1.6 | 120 | 2.2 | 7.2 | 0.9 | < 0.05 | 2.68 | 37.6 | 2.36 | 0.05 | 0.8 | 92.8 | 18.8 |
| 91733 | 28.4 | > 3.00 | 2.09 | 6.57 | 1.23 | 1.02 | 0.1 | 45 | 169 | 1200 | 7.19 | 1.5 | 126 | 2.0 | 6.8 | 0.8 | < 0.05 | 3.10 | 43.3 | 2.31 | 0.03 | 0.8 | 130 | 19.9 |
| 91734 | 17.7 | > 3.00 | 1.19 | 6.99 | 1.28 | 0.64 | 0.1 | 29 | 140 | 641 | 6.70 | 1.7 | 71.2 | 1.4 | 5.9 | 0.6 | < 0.05 | 2.16 | 28.4 | 2.07 | 0.04 | 0.8 | 63.4 | 19.3 |
| 91735 | 27.9 | > 3.00 | 1.70 | 7.18 | 1.08 | 0.59 | < 0.1 | 44 | 196 | 491 | 7.72 | 2.0 | 106 | 1.4 | 6.2 | 0.5 | < 0.05 | 2.37 | 33.0 | 1.98 | 0.04 | 1.0 | 85.8 | 21.0 |
| 91736 | 26.7 | > 3.00 | 1.31 | 7.22 | 1.13 | 0.71 | < 0.1 | 38 | 152 | 464 | 5.59 | 3.4 | 88.3 | 1.4 | 4.7 | 0.5 | < 0.05 | 3.01 | 26.0 | 1.46 | 0.04 | 0.5 | 70.4 | 21.1 |
| 91737 | 17.0 | 2.90 | 0.95 | 5.21 | 1.30 | 1.12 | < 0.1 | 56 | 84.9 | 545 | 4.43 | 3.0 | 49.0 | 1.3 | 2.7 | 0.5 | < 0.05 | 1.35 | 19.2 | 1.20 | 0.04 | 0.6 | 55.9 | 15.0 |
| 91738 | 28.6 | > 3.00 | 1.30 | 6.93 | 1.10 | 0.87 | < 0.1 | 104 | 366 | 516 | 7.76 | 5.4 | 109 | 2.1 | 6.0 | 0.8 | < 0.05 | 1.50 | 27.1 | 1.98 | 0.07 | 1.1 | 90.7 | 19.0 |
| 91739 | 17.2 | 2.65 | 0.95 | 6.27 | 1.70 | 1.38 | < 0.1 | 55 | 73.6 | 798 | 4.12 | 0.3 | 40.3 | 1.5 | 2.0 | 0.5 | < 0.05 | 1.57 | 13.7 | 1.24 | 0.06</ | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91742 | 26.0 | > 3.00 | 1.16 | 6.62 | 0.92 | 0.74 | < 0.1 | 34 | 203 | 622 | 6.78 | 2.4 | 95.7 | 1.5 | 4.1 | 0.6 | < 0.05 | 2.16 | 26.4 | 1.83 | 0.04 | 0.9 | 74.1 | 19.3 |
| 91743 | 27.3 | > 3.00 | 1.72 | 7.15 | 0.89 | 0.64 | 0.1 | 51 | 281 | 775 | 6.86 | 2.3 | 177 | 1.9 | 5.2 | 0.8 | < 0.05 | 2.96 | 41.2 | 2.42 | 0.03 | 0.6 | 68.9 | 19.5 |
| 91744 | 46.2 | > 3.00 | 1.97 | 6.85 | 1.32 | 0.77 | < 0.1 | 47 | 309 | 747 | 7.09 | 2.0 | 201 | 1.5 | 7.6 | 0.6 | < 0.05 | 3.72 | 43.3 | 1.83 | 0.05 | 1.2 | 90.9 | 19.7 |
| 91745 | 56.0 | > 3.00 | 2.41 | 6.60 | 1.18 | 0.81 | < 0.1 | 64 | 375 | 767 | 8.85 | 2.4 | 233 | 3.0 | 8.8 | 1.2 | < 0.05 | 3.74 | 52.2 | 4.35 | 0.04 | 1.6 | 107 | 20.6 |
| 91746 | 42.4 | > 3.00 | 2.22 | 7.01 | 1.26 | 1.33 | 0.1 | 90 | 328 | 1520 | 7.69 | 2.6 | 190 | 3.1 | 8.2 | 1.2 | < 0.05 | 3.02 | 43.4 | 3.38 | 0.04 | 1.6 | 100 | 20.3 |
| 91747 | 43.2 | > 3.00 | 2.41 | 6.12 | 1.35 | 1.44 | < 0.1 | 65 | 363 | 1320 | 6.21 | 0.5 | 145 | 1.5 | 7.4 | 0.5 | < 0.05 | 3.97 | 34.4 | 1.74 | 0.06 | 1.5 | 112 | 17.5 |
| 91748 | 29.9 | > 3.00 | 1.26 | 3.05 | 0.88 | 0.60 | 0.1 | 167 | 313 | 721 | 6.90 | 5.6 | 142 | 1.3 | 5.4 | 0.5 | < 0.05 | 2.40 | 34.6 | 2.56 | 0.04 | 0.7 | 102 | 18.9 |
| 91749 | 31.6 | > 3.00 | 1.99 | 6.73 | 0.88 | 0.87 | < 0.1 | 72 | 335 | 848 | 6.40 | 2.6 | 164 | 2.1 | 8.8 | 0.8 | < 0.05 | 2.54 | 37.9 | 2.45 | 0.03 | 0.9 | 84.2 | 19.2 |
| 91750 | 28.5 | > 3.00 | 2.46 | 6.64 | 1.47 | 1.16 | < 0.1 | 39 | 126 | 1130 | 7.80 | 0.2 | 117 | 2.3 | 10.2 | 0.9 | < 0.05 | 1.73 | 45.5 | 2.26 | 0.03 | 1.3 | 99.7 | 18.1 |
| 91815 | 34.8 | 1.82 | 2.55 | 5.93 | 0.94 | 1.53 | 0.2 | 112 | 315 | 996 | 9.01 | < 0.1 | 180 | 3.8 | 5.1 | 1.6 | < 0.05 | 2.63 | 40.2 | 5.33 | 0.10 | 1.8 | 138 | 19.7 |
| 91816 | 61.4 | 0.80 | 0.57 | 5.41 | 0.70 | 1.67 | 0.8 | 115 | 96.1 | 1260 | 12.7 | < 0.1 | 42.7 | 6.6 | 11.4 | 2.8 | < 0.05 | 1.79 | 48.0 | 7.71 | 0.33 | 2.3 | 147 | 21.2 |
| 91817 | 58.3 | > 3.00 | 2.88 | > 10.0 | 2.58 | 1.86 | 0.1 | 72 | 379 | 1350 | 11.2 | 5.0 | 246 | 3.2 | 10.1 | 1.2 | < 0.05 | 5.22 | 61.1 | 3.63 | 0.10 | 1.2 | 136 | 32.5 |
| 91818 | 18.1 | > 3.00 | 1.19 | 6.42 | 1.45 | 1.15 | < 0.1 | 34 | 92.9 | 435 | 3.94 | 2.7 | 60.1 | 1.5 | 2.7 | 0.6 | < 0.05 | 1.75 | 18.4 | 1.53 | 0.05 | 0.1 | 54.3 | 16.3 |
| 91819 | 26.1 | > 3.00 | 1.61 | 6.61 | 0.90 | 1.72 | < 0.1 | 172 | 33.3 | 1050 | 7.92 | 1.5 | 53.9 | 6.0 | 4.2 | 2.5 | < 0.05 | 1.72 | 37.3 | 5.46 | 0.08 | 1.7 | 98.2 | 20.5 |
| 91820 | 14.7 | > 3.00 | 1.02 | 6.68 | 1.45 | 0.95 | < 0.1 | 16 | 77.7 | 333 | 4.48 | 0.9 | 51.0 | 1.2 | 2.5 | 0.4 | 0.11 | 2.51 | 14.9 | 1.11 | 0.08 | 0.4 | 56.5 | 18.0 |
| 91821 | 24.5 | > 3.00 | 1.99 | 4.60 | 0.99 | 1.07 | 0.3 | 160 | 277 | 1250 | 7.21 | 4.8 | 154 | 2.5 | 8.9 | 0.9 | < 0.05 | 1.90 | 42.5 | 2.05 | 0.05 | 0.9 | 87.8 | 16.9 |
| 91822 | 28.6 | > 3.00 | 1.83 | 6.59 | 1.52 | 1.34 | < 0.1 | 90 | 161 | 693 | 5.56 | 0.2 | 104 | 2.6 | 4.3 | 1.0 | < 0.05 | 2.23 | 27.8 | 2.55 | 0.05 | 1.3 | 88.7 | 18.9 |
| 91823 | 27.6 | 2.94 | 2.10 | 6.62 | 1.57 | 1.66 | 0.1 | 70 | 167 | 856 | 5.84 | < 0.1 | 92.5 | 2.9 | 3.9 | 1.0 | < 0.05 | 2.33 | 29.5 | 2.72 | 0.08 | 1.5 | 92.3 | 19.5 |
| 91824 | 35.9 | > 3.00 | 1.91 | 7.07 | 1.38 | 1.19 | 0.2 | 64 | 144 | 674 | 6.05 | 2.0 | 110 | 2.5 | 5.2 | 0.9 | 0.18 | 2.02 | 40.0 | 2.22 | 0.09 | 1.6 | 81.6 | 19.0 |
| 91825 | 27.6 | 2.63 | 1.74 | 6.78 | 1.70 | 1.65 | 0.1 | 61 | 118 | 685 | 4.85 | 1.8 | 88.5 | 2.0 | 2.6 | 0.7 | 0.10 | 2.14 | 23.1 | 1.66 | 0.09 | 1.6 | 80.6 | 18.6 |
| 92236 | 25.1 | > 3.00 | 1.38 | 7.65 | 1.01 | 1.78 | < 0.1 | 39 | 97.2 | 890 | 6.00 | 0.4 | 65.0 | 2.3 | 4.1 | 0.9 | 0.15 | 1.37 | 26.1 | 2.06 | 0.06 | 1.3 | 75.1 | 18.7 |
| 92237 | 27.7 | > 3.00 | 1.64 | 7.44 | 0.98 | 2.39 | < 0.1 | 66 | 101 | 1070 | 6.97 | 0.1 | 73.0 | 3.6 | 4.0 | 1.4 | 0.06 | 1.33 | 28.6 | 3.82 | 0.11 | 1.4 | 87.5 | 18.4 |
| 92238 | 32.2 | > 3.00 | 1.34 | 7.20 | 1.02 | 1.49 | < 0.1 | 41 | 100 | 596 | 5.79 | 0.2 | 71.5 | 2.0 | 3.7 | 0.7 | < 0.05 | 1.46 | 25.9 | 1.71 | 0.06 | 1.5 | 74.9 | 18.6 |
| 92239 | 33.8 | > 3.00 | 1.63 | 7.64 | 0.89 | 1.83 | 0.1 | 49 | 101 | 706 | 6.25 | < 0.1 | 72.8 | 2.3 | 4.3 | 0.9 | < 0.05 | 1.38 | 30.3 | 1.91 | 0.08 | 0.7 | 91.6 | 19.8 |
| 92240 | 23.3 | > 3.00 | 1.15 | 4.57 | 0.82 | 1.60 | 0.2 | 102 | 127 | 719 | 5.27 | 3.7 | 65.4 | 2.0 | 5.0 | 0.7 | < 0.05 | 1.17 | 24.8 | 1.50 | 0.08 | 1.3 | 84.1 | 18.1 |
| 92241 | 32.9 | 2.55 | 1.92 | 6.86 | 1.25 | 1.92 | 0.3 | 84 | 132 | 1400 | 6.90 | 0.5 | 96.6 | 3.7 | 4.7 | 1.5 | < 0.05 | 1.84 | 37.5 | 4.34 | 0.10 | 1.2 | 133 | 17.8 |
| 92242 | 35.0 | 2.19 | 1.69 | 5.72 | 1.21 | 2.28 | 0.3 | 82 | 104 | 1520 | 6.53 | 0.4 | 95.0 | 4.2 | 5.5 | 1.7 | < 0.05 | 1.90 | 33.8 | 5.15 | 0.16 | 1.4 | 152 | 15.3 |
| 92243 | 34.5 | 1.87 | 1.51 | 5.72 | 0.87 | 2.33 | 0.5 | 89 | 101 | 1940 | 7.74 | < 0.1 | 82.3 | 4.5 | 8.2 | 1.9 | 0.11 | 1.76 | 38.2 | 5.60 | 0.18 | 2.2 | 132 | 15.3 |
| 92244 | 27.8 | 1.48 | 4.87 | 5.28 | 0.50 | 3.56 | 0.5 | 97 | 395 | 967 | 7.36 | 1.4 | 263 | 2.7 | 5.1 | 1.1 | 0.08 | 1.09 | 45.2 | 2.66 | 0.12 | 1.1 | 94.0 | 17.7 |
| 92245 | 21.1 | > 3.00 | 1.29 | 7.99 | 1.20 | 2.15 | < 0.1 | 37 | 77.5 | 382 | 4.86 | 1.7 | 42.9 | 2.0 | 4.4 | 0.7 | < 0.05 | 1.57 | 16.9 | 1.66 | 0.10 | 0.9 | 64.3 | 21.6 |
| 92246 | 27.9 | > 3.00 | 1.77 | 7.09 | 0.92 | 1.38 | < 0.1 | 44 | 240 | 520 | 6.06 | 1.7 | 138 | 2.5 | 3.8 | 1.0 | < 0.05 | 1.86 | 30.6 | 2.27 | 0.07 | 0.7 | 91.1 | 18.8 |
| 92247 | 35.0 | 2.75 | 1.61 | 7.23 | 0.92 | 2.53 | 0.1 | 87 | 114 | 1580 | 6.94 | 2.6 | 87.1 | 4.2 | 7.4 | 1.7 | < 0.05 | 1.76 | 41.7 | 4.56 | 0.12 | 1.3 | 104 | 16.8 |
| 92248 | 25.2 | 0.93 | 2.96 | 3.98 | 0.69 | 5.57 | 0.3 | 92 | 75.3 | 3230 | 7.08 | 0.9 | 61.8 | 3.5 | 3.8 | 1.4 | < 0.05 | 1.31 | 29.7 | 3.51 | 0.12 | 2.8 | 99.6 | 8.5 |
| 92249 | 37.9 | 2.26 | 2.05 | 5.76 | 0.97 | 2.99 | 0.4 | 105 | 182 | 2350 | 7.54 | 0.4 | 128 | 5.7 | 7.6 | 2.3 | < 0.05 | 1.93 | 44.3 | 5.88 | 0.15 | 2.3 | 147 | 15.0 |
| 92250 | 28.1 | 2.44 | 1.14 | 3.67 | 0.90 | 1.65 | 0.1 | 160 | 260 | 548 | 6.62 | 5.0 | 87.7 | 2.4 | 5.7 | 0.9 | < 0.05 | 1.49 | 25.4 | 2.09 | 0.16 | 1.0 | 89.1 | 16.7 |
| 92251 | 50.2 | 2.54 | 1.51 | 5.95 | 1.21 | 1.96 | 0.3 | 103 | 99.8 | 601 | 5.90 | < 0.1 | 46.1 | 3.6 | 7.5 | 1.4 | < 0.05 | 2.77 | 21.1 | 3.29 | 0.18 | 1.8 | 114 | 16.1 |
| 92252 | 65.2 | 1.41 | 1.50 | 5.95 | 1.75 | 3.09 | 1.1 | 214 | 105 | 6480 | 12.3 | < 0.1 | 162 | 18.6 | 14.9 | 7.8 | < 0.05 | 1.82 | 59.4 | 21.9 | 0.50 | 6.5 | 309 | 18.4 |
| 92253 | 33.0 | 2.92 | 1.31 | 6.32 | 1.04 | 2.14 | 0.2 | 162 | 78.9 | 1680 | 7.96 | 0.7 | 86.0 | 5.8 | 7.6 | 2.3 | < 0.05 | 1.68 | 39.4 | 7.10 | 0.22 | 1.9 | 148 | 19.1 |
| 92254 | 41.1 | 1.95 | 1.70 | 5.53 | 1.18 | 1.93 | 0.5 | 102 | 166 | 1950 | 6.72 | 1.8 | 113 | 4.1 | 6.4 | 1.6 | < 0.05 | 2.69 | 41.6 | 4.96 | 0.17 | 1.1 | 159 | 17.0 |
| 92255 | 40.6 | 2.13 | 1.81 | 5.86 | 1.28 | 2.36 | 0.3 | 127 | 202 | 1640 | 7.93 | 2.7 | 121 | 5.5 | 8.3 | 2.3 | < 0.05 | 2.13 | 38.3 | 7.50 | 0.24 | 2.1 | 165 | 17.5 |
| 92256 | 41.4 | 2.17 | 1.96 | 5.93 | 1.30 | 2.19 | 0.4 | 143 | 245 | 1740 | 8.15 | 2.9 | 163 | 5.6 | 8.1 | 2.3 | < 0.05 | 2.10 | 44.4 | 7.23 | 0.18 | 2.1 | 171 | 18.5 |
| 92257 | 33.8 | 1.74 | 1.92 | 5.03 | 1.13 | 3.17 | 0.5 | 159 | 224 | 1650 | 5.91 | 2.3 | 142 | 3.2 | 7.4 | 1.3 | < 0.05 | 1.99 | 39.3 | 4.16 | 0.20 | 2.2 | 195 | 17.2 |
| 92258 | 32.9 | 2.47 | 2.63 | 5.82 | 1.45 | 4.60 | 0.3 | 119 | 205 | 1650 | 7.06 | 2.9 | 152 | 3.5 | 6.0 | 1.4 | < 0.05 | 2.09 | 45.0 | 5.33 | 0.19 | 1.0 | 181 | 17.7 |
| 92259 | 36.1 | 2.93 | 2.53 | 6.62 | 1.63 | 2.10 | 0.2 | 117 | 228 | 1440 | 7.19 | 3.5 | 161 | 3.8 | 7.5 | 1.5 | < 0.05 | 2.41 | 41.2 | 5.13 | 0.15 | 1.3 | 153 | 19.7 |
| 92260 | 60.3 | 0.06 | 2.63 | 2.64 | 0.08 | 2.25 | 0.4 | 160 | 358 | 2600 | 12.2 | < 0.1 | 222 | 4.2 | 5.1 | 1.7 | < 0.05 | 1.20 | 65.0 | 6.33 | 0.10 | 1.7 | 125 | 12.5 |
| 92261 | 25.0 | 2.28 | 1.22 | 5.26 | 0.90 | 1.69 | 0.2 | 104 | 163 | 997 | 6.37 | < 0.1 | 94.3 | 4.5 | 8.2 | 2.0 | < 0.05 | 1.82 | 26.5 | 8.43 | 0.21 | 1.4 | 110 | 19.1 |
| 92262 | 22.7 | 0.60 | 1.38 | 2.60 | 0.88 | 5.00 | 0.4 | 129 | 81.4 | 1900 | 4.42 | < 0.1 | 59.0 | 5.7 | 5.5 | 2.4 | 0.08 | 1.59 | 20.0 | 7.99 | 0.15 | 2.2 | 115 | 10.2 |
| 92263 | 21.6 | 2.66 | 1.55 | 5.72 | 1.36 | 1.89 | < 0.1 | 62 | 128 | 387 | 5.18 | < 0.1 | 98.2 | 3.3 | 4.7 | 1.3 | < 0.05 | 1.97 | 24.9 | 3.46 | 0.08 | 0.9 | 114 | 15.5 |
| 92264 | 41.3 | 2.92 | 1.85 | 6.53 | 1.41 | 1.37 | 0.2 | 63 | 136 | 1100 | 8.07 | 1.1 | 126 | 4.1 | 6.7 | 1.6 | 0.05 | 2.09 | 45.7 | 4.34 | 0.11 | 1.2 | 150 | 20.8 |
| 92265 | 33.7 | 1.95 | 1.80 | 5.90 | 1.60 | 1.85 | 0.4 | 122 | 228 | 1460 | 6.57 | 2.9 | 123 | 3.8 | 7.2 | 1.5 | 1.35 | 2.03 | 35.2 | 5.00 | 0.54 | 1.3 | 797 | 19.3 |
| 92266 | 37.2 | 0.25 | 0.88 | 1.24 | 0.17 | 4.10 | 0.5 | 175 | 76.0 | > 10 | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92268 | 23.2 | 2.52 | 0.93 | 4.95 | 0.95 | 1.64 | 0.7 | 90 | 193 | 447 | 4.36 | 2.4 | 87.5 | 3.4 | 9.3 | 1.3 | 0.10 | 2.02 | 15.7 | 3.42 | 0.19 | 0.8 | 90.5 | 19.9 |
| 92340 | 41.4 | 2.53 | 2.47 | 7.83 | 0.65 | 2.34 | 0.1 | 88 | 96.1 | 1220 | 7.31 | 1.0 | 91.9 | 3.6 | 4.1 | 1.5 | 0.07 | 1.30 | 43.6 | 4.46 | 0.07 | 1.0 | 95.0 | 20.1 |
| 92341 | 17.5 | 1.51 | 0.95 | 4.08 | 0.50 | 4.27 | 0.2 | 72 | 41.3 | 1400 | 3.95 | < 0.1 | 54.1 | 3.0 | 5.1 | 1.2 | 0.08 | 1.30 | 27.4 | 3.01 | 0.07 | 1.4 | 69.1 | 11.4 |
| 92342 | 16.5 | 0.72 | 0.53 | 2.99 | 0.36 | 4.55 | 0.2 | 30 | 15.9 | 2010 | 3.07 | 0.6 | 14.3 | 1.9 | 1.5 | 0.7 | < 0.05 | 0.73 | 10.2 | 1.29 | 0.08 | 2.4 | 40.9 | 9.3 |
| 92343 | 36.6 | 2.27 | 2.19 | 7.31 | 0.55 | 2.92 | 0.1 | 45 | 58.1 | 1350 | 6.89 | 0.7 | 53.3 | 2.9 | 3.1 | 1.1 | < 0.05 | 1.41 | 37.6 | 2.71 | 0.06 | 0.8 | 110 | 16.9 |
| 92344 | 30.6 | 2.69 | 1.77 | 6.74 | 1.51 | 1.74 | 0.1 | 57 | 112 | 715 | 5.53 | 0.6 | 92.9 | 2.9 | 4.3 | 1.1 | < 0.05 | 1.73 | 31.5 | 3.26 | 0.08 | 1.2 | 100 | 16.8 |
| 92345 | 29.7 | 2.28 | 1.19 | 6.22 | 1.00 | 1.38 | 0.2 | 80 | 201 | 473 | 9.66 | 1.7 | 61.2 | 2.4 | 5.1 | 0.9 | < 0.05 | 1.91 | 20.1 | 1.99 | 0.15 | 0.3 | 83.2 | 19.2 |
| 92346 | 34.4 | 2.43 | 2.01 | 6.80 | 1.40 | 2.12 | 0.2 | 81 | 127 | 1380 | 6.64 | 1.7 | 99.3 | 3.3 | 4.6 | 1.3 | < 0.05 | 1.79 | 37.1 | 3.56 | 0.07 | 1.0 | 114 | 19.2 |
| 92347 | 38.5 | 2.42 | 1.97 | 6.78 | 1.25 | 2.54 | 0.3 | 124 | 143 | 1980 | 7.58 | 2.7 | 110 | 4.9 | 6.3 | 2.0 | < 0.05 | 1.90 | 42.6 | 6.12 | 0.20 | 1.8 | 165 | 19.6 |
| 92348 | 32.0 | 2.46 | 2.03 | 6.71 | 1.34 | 2.64 | 0.2 | 79 | 121 | 1480 | 6.13 | 1.6 | 93.7 | 3.6 | 4.7 | 1.4 | < 0.05 | 1.84 | 35.4 | 4.22 | 0.12 | 1.0 | 123 | 16.9 |
| 92349 | 48.7 | > 3.00 | 2.36 | 8.78 | 0.35 | 2.85 | < 0.1 | 26 | 36.8 | 1520 | 6.39 | 0.3 | 57.6 | 1.6 | 1.6 | 0.7 | < 0.05 | 1.33 | 46.3 | 1.60 | 0.02 | 0.3 | 83.0 | 17.9 |
| 92350 | 21.4 | 0.86 | 2.45 | 3.20 | 0.44 | 6.73 | 0.5 | 100 | 79.6 | 1560 | 5.20 | 1.4 | 65.2 | 4.1 | 3.8 | 1.7 | < 0.05 | 1.20 | 22.3 | 4.13 | 0.16 | 3.5 | 138 | 6.9 |
| 92204 | 27.6 | 2.54 | 1.71 | 5.59 | 1.25 | 1.69 | 0.5 | 105 | 184 | 1500 | 6.51 | < 0.1 | 141 | 3.7 | 6.7 | 1.5 | < 0.05 | 2.42 | 36.3 | 4.54 | 0.09 | 0.9 | 163 | 16.3 |
| 92205 | 38.9 | 2.24 | 1.98 | 6.28 | 1.43 | 1.45 | 0.2 | 83 | 190 | 1070 | 6.59 | < 0.1 | 136 | 3.6 | 7.6 | 1.5 | < 0.05 | 2.27 | 34.1 | 4.24 | 0.20 | 1.1 | 107 | 18.6 |
| 92206 | 56.1 | 1.85 | 1.46 | 5.71 | 1.76 | 1.37 | 0.5 | 98 | 193 | 2250 | 7.89 | 0.3 | 133 | 7.0 | 12.0 | 3.0 | < 0.05 | 2.58 | 40.4 | 10.0 | 0.54 | 1.9 | 271 | 19.2 |
| 92207 | 13.7 | 0.74 | 0.92 | 2.33 | 0.57 | 4.79 | 0.4 | 79 | 74.1 | 968 | 3.05 | < 0.1 | 63.7 | 3.6 | 3.2 | 1.5 | 0.06 | 1.27 | 15.4 | 4.47 | 0.11 | 1.1 | 140 | 8.0 |
| 92208 | 7.0 | 0.57 | 0.71 | 1.15 | 0.14 | 7.61 | 0.9 | 92 | 32.9 | 4570 | 3.16 | < 0.1 | 125 | 12.7 | 6.0 | 6.0 | 0.16 | 0.74 | 20.7 | 26.9 | 0.35 | 7.2 | 162 | 4.1 |
| 92209 | 20.5 | 1.72 | 1.25 | 4.54 | 1.14 | 3.53 | 0.6 | 161 | 80.9 | 3590 | 6.67 | < 0.1 | 81.6 | 8.5 | 6.7 | 3.7 | < 0.05 | 1.57 | 28.2 | 13.8 | 0.24 | 2.5 | 122 | 14.6 |
| 92210 | 31.3 | 2.26 | 2.23 | 5.48 | 1.21 | 2.14 | 0.3 | 84 | 247 | 813 | 6.96 | 1.7 | 160 | 3.3 | 5.7 | 1.4 | 0.06 | 1.98 | 38.4 | 4.36 | 0.13 | 1.2 | 306 | 15.6 |
| 92211 | 47.0 | 1.86 | 2.12 | 5.77 | 1.06 | 1.49 | 0.4 | 96 | 175 | 1590 | 10.3 | 2.2 | 118 | 4.0 | 9.2 | 1.6 | < 0.05 | 2.54 | 57.4 | 4.30 | 0.25 | 1.2 | 164 | 20.8 |
| 92212 | 55.0 | 1.75 | 1.86 | 5.41 | 1.15 | 1.84 | 0.7 | 147 | 618 | 3100 | 8.78 | 3.1 | 437 | 5.3 | 16.8 | 2.2 | 0.06 | 1.73 | 75.3 | 7.57 | 0.19 | 2.2 | 137 | 20.0 |
| 92213 | 21.4 | 2.55 | 1.14 | 4.06 | 1.01 | 0.76 | 0.2 | 168 | 196 | 602 | 6.88 | 5.9 | 83.4 | 1.6 | 5.9 | 0.6 | < 0.05 | 2.11 | 26.2 | 1.54 | 0.19 | 0.6 | 95.1 | 20.9 |
| 92214 | 40.1 | 1.60 | 1.58 | 4.81 | 0.96 | 2.00 | 0.5 | 100 | 376 | 2360 | 8.25 | < 0.1 | 165 | 5.7 | 11.7 | 2.5 | < 0.05 | 2.03 | 46.2 | 9.79 | 0.85 | 1.7 | 196 | 18.8 |
| 92215 | 87.6 | 0.23 | 2.36 | 3.72 | 0.99 | 2.15 | 2.5 | 193 | 738 | 7660 | 14.0 | < 0.1 | 421 | 10.7 | 13.4 | 5.8 | < 0.05 | 2.00 | 62.5 | 42.0 | 2.15 | 5.5 | 1260 | 14.4 |
| 92216 | 41.7 | 1.92 | 1.34 | 5.76 | 1.38 | 1.61 | 0.4 | 71 | 166 | 802 | 5.75 | < 0.1 | 61.5 | 3.6 | 7.9 | 1.5 | < 0.05 | 1.26 | 27.5 | 4.91 | 0.39 | 0.7 | 231 | 18.6 |
| 92217 | 66.4 | 1.85 | 1.60 | 5.93 | 1.43 | 1.93 | 0.3 | 111 | 149 | 1300 | 6.18 | 0.1 | 73.5 | 4.4 | 6.6 | 1.9 | < 0.05 | 2.87 | 27.2 | 6.16 | 0.33 | 1.1 | 173 | 17.5 |
| 92218 | 47.6 | 1.98 | 1.78 | 6.16 | 1.49 | 2.01 | 0.3 | 114 | 243 | 1780 | 7.92 | 0.9 | 148 | 6.5 | 9.2 | 2.8 | < 0.05 | 2.65 | 49.3 | 8.66 | 0.19 | 1.9 | 168 | 18.4 |
| 92219 | 81.0 | 0.06 | 3.93 | 3.96 | 1.99 | 7.69 | 1.1 | 256 | 143 | 4960 | 8.30 | 3.9 | 130 | 13.8 | 17.9 | 6.1 | < 0.05 | 1.48 | 41.8 | 19.8 | 1.23 | 4.9 | 381 | 11.6 |
| 92220 | 39.1 | 1.84 | 1.80 | 5.13 | 1.20 | 2.63 | 0.5 | 129 | 185 | 1960 | 6.93 | 0.8 | 120 | 4.7 | 7.7 | 2.0 | 0.10 | 2.40 | 40.5 | 5.45 | 0.29 | 1.8 | 237 | 14.4 |
| 92221 | 26.0 | 1.62 | 0.98 | 4.93 | 0.85 | 3.05 | 0.8 | 84 | 123 | 1680 | 5.30 | < 0.1 | 69.6 | 4.9 | 5.4 | 2.0 | 0.13 | 2.11 | 26.8 | 5.96 | 0.21 | 2.3 | 95.1 | 13.6 |
| 92222 | 42.4 | 2.53 | 1.30 | 4.11 | 0.63 | 1.75 | 0.2 | 182 | 169 | 747 | 7.03 | 4.0 | 75.5 | 2.6 | 7.3 | 1.0 | < 0.05 | 1.03 | 32.3 | 2.65 | 0.16 | 1.4 | 109 | 18.6 |
| 92223 | 33.9 | 2.06 | 2.03 | 6.82 | 0.58 | 3.11 | 0.2 | 198 | 68.5 | 1810 | 8.28 | < 0.1 | 89.8 | 7.8 | 8.1 | 3.3 | < 0.05 | 1.19 | 47.6 | 11.4 | 0.15 | 2.1 | 135 | 18.8 |
| 92224 | 20.3 | 2.84 | 1.04 | 6.93 | 0.72 | 1.67 | < 0.1 | 43 | 102 | 553 | 5.74 | 0.7 | 44.4 | 2.3 | 8.5 | 0.9 | < 0.05 | 1.70 | 22.8 | 1.78 | 0.10 | < 0.1 | 69.5 | 19.1 |
| 92225 | 21.1 | 2.99 | 0.95 | 7.79 | 0.42 | 3.01 | 0.1 | 40 | 46.2 | 5890 | 6.74 | 0.2 | 44.9 | 3.2 | 1.9 | 1.3 | < 0.05 | 1.00 | 44.0 | 2.93 | 0.04 | 0.6 | 77.9 | 16.6 |
| 92226 | < 0.5 | 0.02 | 0.18 | 0.13 | 0.02 | 3.69 | 0.6 | 8 | 16.1 | 1920 | 2.63 | < 0.1 | 34.7 | 0.6 | 0.2 | 0.2 | < 0.05 | 0.34 | 10.5 | 0.67 | 0.02 | 2.5 | 28.7 | < 0.1 |
| 92227 | 27.4 | 2.10 | 2.07 | 6.08 | 1.08 | 4.77 | 0.3 | 137 | 65.4 | 2570 | 6.88 | 0.7 | 76.9 | 4.9 | 7.2 | 2.1 | < 0.05 | 1.44 | 36.3 | 6.89 | 0.16 | 1.4 | 132 | 14.5 |
| 92228 | 1.5 | 0.10 | 0.25 | 0.45 | 0.07 | 3.63 | 0.4 | 10 | 23.4 | 246 | 1.21 | 0.4 | 14.5 | 0.8 | 0.4 | 0.3 | < 0.05 | 0.45 | 2.6 | 0.86 | 0.04 | 2.6 | 13.6 | 0.9 |
| 92229 | 23.5 | 2.79 | 1.27 | 6.53 | 1.17 | 1.63 | < 0.1 | 55 | 100 | 1030 | 5.04 | < 0.1 | 65.8 | 2.7 | 5.3 | 1.1 | < 0.05 | 1.25 | 23.8 | 3.02 | 0.05 | 0.4 | 60.8 | 14.0 |
| 92230 | 48.5 | 2.42 | 2.90 | 8.05 | 0.28 | 2.21 | < 0.1 | 68 | 44.3 | 749 | 8.01 | 0.5 | 60.1 | 1.7 | 1.8 | 0.6 | < 0.05 | 0.91 | 50.8 | 1.27 | 0.03 | 0.3 | 78.6 | 20.2 |
| 92231 | 13.2 | 2.91 | 0.82 | 6.49 | 0.84 | 1.94 | 0.2 | 16 | 73.3 | 311 | 4.19 | 0.6 | 31.3 | 2.0 | 4.1 | 0.8 | < 0.05 | 1.11 | 13.9 | 2.07 | 0.11 | 0.7 | 48.2 | 19.5 |
| 92232 | 18.8 | 1.29 | 1.18 | 4.28 | 0.58 | 3.37 | 0.3 | 75 | 73.9 | 2660 | 4.82 | 1.1 | 45.3 | 2.2 | 2.6 | 0.9 | < 0.05 | 1.16 | 24.3 | 2.53 | 0.07 | 1.0 | 111 | 10.7 |
| 92233 | 39.3 | 2.18 | 1.34 | 6.39 | 0.60 | 3.03 | 0.1 | 57 | 63.1 | 2350 | 5.98 | 0.9 | 51.4 | 3.0 | 2.8 | 1.2 | < 0.05 | 1.10 | 36.9 | 2.99 | 0.08 | 0.9 | 83.8 | 12.8 |
| 92234 | 26.3 | 0.98 | 1.70 | 4.10 | 0.16 | 4.41 | 0.2 | 69 | 35.3 | 1920 | 4.30 | < 0.1 | 43.3 | 1.5 | 1.0 | 0.5 | < 0.05 | 0.93 | 31.4 | 1.03 | 0.02 | 0.5 | 56.2 | 9.2 |
| 92235 | 30.5 | 2.55 | 1.54 | 7.30 | 0.53 | 2.65 | 0.1 | 29 | 70.7 | 1010 | 7.23 | 0.4 | 48.8 | 3.4 | 3.5 | 1.3 | < 0.05 | 1.08 | 34.5 | 2.87 | 0.08 | 0.5 | 103 | 18.8 |
| 92269 | 30.5 | 2.15 | 1.55 | 5.23 | 1.21 | 1.75 | 0.5 | 79 | 198 | 2180 | 6.21 | 1.7 | 123 | 5.0 | 8.7 | 2.1 | < 0.05 | 2.27 | 34.4 | 7.79 | 0.29 | 1.7 | 200 | 17.6 |
| 92270 | 44.3 | 0.41 | 0.87 | 4.90 | 1.44 | 2.77 | 0.6 | 120 | 80.6 | 2260 | 12.9 | < 0.1 | 70.1 | 11.5 | 15.6 | 4.9 | < 0.05 | 1.61 | 37.3 | 16.3 | 0.35 | 3.2 | 360 | 23.4 |
| 92271 | 35.6 | 2.63 | 2.30 | 6.48 | 1.73 | 1.75 | 0.4 | 127 | 274 | 2240 | 7.79 | 2.2 | 192 | 4.7 | 7.5 | 1.9 | 0.05 | 2.58 | 50.1 | 6.38 | 0.16 | 1.7 | 181 | 22.4 |
| 92272 | 42.6 | 2.51 | 1.92 | 5.88 | 1.27 | 2.01 | 0.7 | 116 | 269 | 1950 | 6.99 | 2.2 | 143 | 7.6 | 9.7 | 3.3 | < 0.05 | 2.60 | 32.6 | 12.8 | 0.53 | 2.3 | 236 | 19.7 |
| 92273 | 34.2 | 2.43 | 2.15 | 6.09 | 1.60 | 2.22 | 0.2 | 124 | 221 | 1620 | 6.12 | 3.4 | 145 | 4.3 | 6.3 | 1.8 | < 0.05 | 2.45 | 32.5 | 6.86 | 0.27 | 0.9 | 166 | 18.8 |
| 92274 | 29.8 | 2.67 | 2.05 | 6.53 | 1.81 | 2.17 | 0.1 | 62 | 184 | 1080 | 5.53 | 2.0 | 136 | 2.6 | 6.1 | 1.0 | < 0.05 | 2.41 | 32.6 | 3.24 | 0.09 | 0.7 | 96.3 | 19.1 |
| 92275 | 39.3 | 2.43 | 1.87 | 6.71 | 1.61 | 1.04 | < 0.1 | 56 | 201 | 965 | 6.03 | 2.1 | 135 | 1.9 | 4.5 | 0.7 | < 0.05 | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 100727 | 17.2 | > 3.00 | 1.39 | 6.28 | 1.28 | 1.48 | < 0.1 | 60 | 194 | 718 | 5.29 | 1.8 | 102 | 2.0 | 3.6 | 0.8 | < 0.05 | 1.91 | 27.0 | 2.30 | 0.03 | 0.2 | 74.8 | 17.1 |
| 100728 | 27.4 | > 3.00 | 2.48 | 6.47 | 1.49 | 1.00 | < 0.1 | 64 | 266 | 1560 | 9.50 | 0.8 | 175 | 2.8 | 9.4 | 1.1 | < 0.05 | 3.08 | 52.8 | 3.51 | 0.05 | 0.7 | 114 | 20.4 |
| 100729 | 33.3 | > 3.00 | 2.48 | 6.53 | 1.12 | 0.89 | 0.2 | 57 | 171 | 947 | 9.50 | 1.2 | 132 | 3.0 | 7.7 | 1.1 | 0.31 | 3.64 | 50.1 | 3.32 | 0.09 | 0.8 | 128 | 18.7 |
| 100730 | 28.1 | > 3.00 | 1.70 | 7.22 | 1.25 | 0.85 | < 0.1 | 45 | 208 | 710 | 6.63 | 1.9 | 133 | 1.6 | 5.6 | 0.6 | < 0.05 | 2.87 | 37.3 | 2.05 | 0.04 | 0.3 | 77.4 | 20.1 |
| 100731 | 24.8 | 2.73 | 2.07 | 6.36 | 1.73 | 2.56 | < 0.1 | 62 | 136 | 800 | 5.24 | 2.2 | 92.1 | 2.0 | 3.0 | 0.8 | < 0.05 | 2.13 | 26.8 | 2.23 | 0.06 | 0.6 | 73.7 | 16.9 |
| 100732 | 27.1 | > 3.00 | 2.09 | 6.87 | 1.10 | 1.15 | < 0.1 | 88 | 281 | 1160 | 8.41 | 2.8 | 167 | 3.3 | 7.3 | 1.4 | < 0.05 | 3.94 | 46.7 | 3.94 | 0.05 | 0.9 | 84.6 | 19.3 |
| 100733 | 36.9 | > 3.00 | 1.89 | 7.01 | 0.27 | 0.54 | < 0.1 | 214 | 559 | 1240 | 9.27 | 3.4 | 298 | 2.3 | 7.4 | 0.9 | 0.12 | 3.31 | 61.9 | 1.89 | 0.06 | 0.9 | 74.1 | 21.8 |
| 100734 | 31.7 | > 3.00 | 1.95 | 6.74 | 1.25 | 1.06 | 0.1 | 55 | 255 | 1430 | 8.75 | 1.6 | 159 | 3.5 | 6.3 | 1.4 | < 0.05 | 4.12 | 52.1 | 3.57 | 0.06 | 0.9 | 98.6 | 19.0 |
| 100735 | 30.1 | 2.73 | 1.89 | 4.39 | 1.30 | 0.94 | < 0.1 | 183 | 273 | 1090 | 7.90 | 3.2 | 210 | 1.8 | 6.6 | 0.7 | < 0.05 | 1.70 | 53.5 | 1.57 | 0.05 | 0.9 | 89.9 | 20.4 |
| 100736 | 18.5 | 2.80 | 1.29 | 6.35 | 1.75 | 1.84 | < 0.1 | 70 | 123 | 465 | 4.03 | 3.7 | 61.7 | 1.7 | 2.6 | 0.6 | < 0.05 | 1.56 | 19.4 | 1.65 | 0.04 | 0.7 | 63.0 | 17.5 |
| 100737 | 25.3 | > 3.00 | 1.55 | 7.56 | 1.33 | 0.59 | < 0.1 | 52 | 77.7 | 813 | 6.93 | 1.7 | 66.6 | 1.5 | 5.9 | 0.6 | 0.16 | 3.49 | 38.3 | 2.03 | 0.06 | 0.3 | 97.5 | 24.0 |
| 100738 | 29.0 | > 3.00 | 2.12 | 6.42 | 1.25 | 1.14 | 0.1 | 74 | 137 | 1820 | 8.21 | 1.8 | 94.2 | 2.5 | 7.0 | 1.0 | 0.17 | 3.43 | 42.7 | 2.78 | 0.08 | 0.8 | 109 | 18.5 |
| 100739 | 12.8 | 2.67 | 0.71 | 6.24 | 1.62 | 1.47 | < 0.1 | 62 | 86.9 | 553 | 4.16 | 5.0 | 30.4 | 1.5 | 3.1 | 0.6 | 0.05 | 1.05 | 13.3 | 1.51 | 0.04 | 0.3 | 42.4 | 16.5 |
| 91924 | 25.1 | > 3.00 | 2.34 | 6.93 | 1.04 | 1.85 | 0.2 | 107 | 162 | 1530 | 7.43 | 2.5 | 123 | 3.4 | 3.6 | 1.3 | < 0.05 | 1.51 | 45.4 | 3.86 | 0.09 | 0.9 | 113 | 21.0 |
| 91925 | 35.0 | 2.13 | 2.45 | 6.29 | 1.01 | 2.41 | 0.3 | 132 | 259 | 1880 | 6.61 | 2.1 | 176 | 2.9 | 3.0 | 1.2 | < 0.05 | 2.13 | 47.8 | 3.42 | 0.08 | 1.5 | 176 | 20.2 |
| 91926 | 25.1 | 2.53 | 2.28 | 6.12 | 0.98 | 3.49 | 0.2 | 114 | 207 | 1490 | 8.35 | 2.2 | 151 | 3.3 | 3.2 | 1.3 | < 0.05 | 1.48 | 47.8 | 3.80 | 0.08 | 0.9 | 134 | 17.5 |
| 91927 | 27.8 | 2.99 | 1.83 | 6.63 | 0.86 | 1.68 | 0.1 | 82 | 149 | 1470 | 7.59 | 2.0 | 110 | 3.1 | 3.6 | 1.3 | < 0.05 | 1.53 | 41.2 | 4.11 | 0.12 | 0.9 | 110 | 17.0 |
| 91928 | 35.1 | 2.04 | 1.45 | 4.67 | 0.59 | 3.32 | 0.3 | 272 | 147 | 2900 | 9.72 | 0.6 | 93.0 | 6.1 | 12.8 | 2.5 | < 0.05 | 1.38 | 51.6 | 7.55 | 0.31 | 1.5 | 182 | 21.4 |
| 91929 | 16.4 | 0.14 | 1.78 | 2.58 | 0.15 | 6.77 | 0.9 | 177 | 58.6 | 5910 | 15.1 | < 0.1 | 137 | 9.2 | 9.0 | 3.9 | < 0.05 | 0.59 | 60.3 | 12.7 | 0.27 | 1.8 | 360 | 11.4 |
| 91930 | 16.9 | > 3.00 | 1.94 | 5.64 | 0.43 | 1.44 | 0.1 | 54 | 74.1 | 1300 | 7.68 | 1.1 | 82.8 | 1.9 | 2.7 | 0.8 | < 0.05 | 1.31 | 45.6 | 3.13 | 0.06 | 0.5 | 100 | 17.0 |
| 91931 | 25.1 | 2.45 | 1.64 | 6.60 | 1.56 | 1.62 | < 0.1 | 52 | 98.0 | 614 | 4.74 | 1.5 | 78.9 | 1.9 | 2.1 | 0.8 | < 0.05 | 1.86 | 22.2 | 1.95 | 0.07 | < 0.1 | 75.8 | 16.0 |
| 91932 | 46.0 | 0.56 | 2.08 | 2.62 | 0.21 | 4.75 | 0.9 | 210 | 176 | 5870 | 9.22 | < 0.1 | 134 | 13.9 | 13.7 | 6.8 | < 0.05 | 1.35 | 41.4 | 33.7 | 1.02 | 5.4 | 491 | 7.0 |
| 91933 | 25.8 | 2.45 | 1.27 | 6.54 | 1.29 | 1.53 | < 0.1 | 90 | 113 | 1450 | 5.26 | < 0.1 | 60.0 | 3.6 | 3.5 | 1.5 | < 0.05 | 1.92 | 24.6 | 5.09 | 0.15 | 1.1 | 63.0 | 17.0 |
| 91934 | 22.3 | > 3.00 | 1.22 | 6.58 | 1.03 | 1.10 | < 0.1 | 72 | 93.9 | 597 | 5.07 | 2.1 | 64.2 | 1.6 | 1.9 | 0.6 | < 0.05 | 1.49 | 27.5 | 1.47 | 0.04 | < 0.1 | 74.3 | 16.4 |
| 91935 | 20.9 | 2.67 | 1.31 | 6.76 | 1.65 | 1.33 | < 0.1 | 49 | 78.4 | 505 | 3.85 | 2.3 | 58.3 | 1.4 | 1.6 | 0.5 | < 0.05 | 1.81 | 16.7 | 1.35 | 0.06 | < 0.1 | 57.4 | 18.5 |
| 91936 | 15.8 | > 3.00 | 0.98 | 7.11 | 1.30 | 0.82 | < 0.1 | 46 | 86.7 | 290 | 5.22 | 1.7 | 46.3 | 1.1 | 2.3 | 0.4 | < 0.05 | 1.71 | 14.4 | 1.23 | 0.06 | 0.3 | 47.7 | 22.7 |
| 91937 | 27.0 | > 3.00 | 1.64 | 6.95 | 1.54 | 1.14 | < 0.1 | 51 | 131 | 640 | 4.95 | 2.1 | 85.6 | 1.6 | 3.0 | 0.6 | < 0.05 | 1.94 | 27.9 | 1.61 | 0.04 | 0.7 | 73.8 | 20.3 |
| 91938 | 20.8 | > 3.00 | 1.66 | 2.93 | 0.51 | 0.48 | 0.1 | 380 | 76.6 | 1490 | 11.7 | 4.9 | 112 | 1.0 | 4.6 | 0.3 | < 0.05 | 0.70 | 71.0 | 0.58 | 0.02 | 0.2 | 158 | 24.5 |
| 91939 | 19.8 | 2.75 | 1.28 | 6.71 | 1.54 | 1.40 | < 0.1 | 70 | 115 | 616 | 4.37 | 0.7 | 65.2 | 1.8 | 2.4 | 0.7 | < 0.05 | 1.65 | 18.9 | 1.93 | 0.05 | 0.6 | 60.1 | 17.4 |
| 91940 | 20.3 | > 3.00 | 1.39 | 6.57 | 1.24 | 1.12 | < 0.1 | 36 | 106 | 609 | 5.05 | 2.0 | 79.0 | 1.8 | 2.9 | 0.7 | < 0.05 | 1.60 | 25.0 | 1.93 | 0.05 | < 0.1 | 62.8 | 17.8 |
| 91941 | 22.3 | > 3.00 | 1.27 | 6.94 | 1.02 | 0.75 | < 0.1 | 33 | 124 | 418 | 6.13 | 1.2 | 81.7 | 1.3 | 4.6 | 0.5 | < 0.05 | 1.68 | 29.0 | 1.56 | 0.04 | < 0.1 | 62.0 | 18.1 |
| 91942 | 32.8 | 2.11 | 1.71 | 6.05 | 1.49 | 1.99 | 0.1 | 82 | 169 | 2970 | 6.68 | 1.7 | 112 | 4.0 | 6.4 | 1.5 | < 0.05 | 3.06 | 33.9 | 2.84 | 0.09 | 1.8 | 94.7 | 20.1 |
| 91943 | 29.1 | 2.32 | 2.78 | 5.48 | 1.30 | 1.98 | < 0.1 | 126 | 175 | 1250 | 6.08 | 1.2 | 107 | 3.9 | 5.0 | 1.4 | 0.27 | 3.69 | 42.4 | 3.42 | 0.06 | 2.6 | 126 | 19.9 |
| 91944 | 22.3 | 2.66 | 1.87 | 5.88 | 1.47 | 0.91 | < 0.1 | 71 | 61.0 | 749 | 9.91 | 0.8 | 71.1 | 1.9 | 6.2 | 0.8 | < 0.05 | 1.72 | 46.2 | 2.84 | 0.03 | < 0.1 | 116 | 21.9 |
| 91945 | 23.1 | > 3.00 | 2.32 | 6.94 | 0.86 | 1.13 | 0.1 | 58 | 154 | 1050 | 8.07 | 1.8 | 136 | 2.0 | 5.4 | 0.8 | < 0.05 | 4.75 | 48.9 | 2.35 | < 0.02 | 0.5 | 98.6 | 18.7 |
| 91946 | 23.3 | > 3.00 | 2.05 | 6.44 | 1.58 | 2.26 | 0.1 | 61 | 177 | 1380 | 7.09 | 1.6 | 115 | 2.6 | 6.7 | 1.0 | < 0.05 | 2.33 | 39.0 | 2.57 | 0.05 | 0.6 | 98.3 | 17.3 |
| 91947 | 18.3 | > 3.00 | 1.02 | 5.90 | 1.21 | 0.78 | < 0.1 | 64 | 140 | 409 | 6.17 | 2.5 | 67.9 | 0.9 | 3.0 | 0.3 | < 0.05 | 1.78 | 20.9 | 1.19 | 0.03 | < 0.1 | 58.9 | 17.1 |
| 91948 | 20.2 | 2.89 | 0.94 | 3.88 | 1.15 | 0.96 | < 0.1 | 106 | 151 | 434 | 4.71 | 3.9 | 69.9 | 0.8 | 2.3 | 0.3 | < 0.05 | 1.53 | 19.3 | 0.79 | 0.03 | < 0.1 | 50.3 | 16.6 |
| 91949 | 51.3 | > 3.00 | 2.66 | 6.75 | 1.79 | 1.13 | < 0.1 | 97 | 151 | 1400 | 9.24 | 1.2 | 127 | 2.9 | 6.6 | 1.2 | < 0.05 | 2.85 | 60.7 | 3.28 | 0.03 | 0.9 | 129 | 21.3 |
| 91950 | 17.2 | 2.70 | 1.26 | 5.93 | 1.42 | 1.50 | < 0.1 | 43 | 92.6 | 1620 | 5.15 | 1.5 | 72.1 | 2.0 | 2.8 | 0.8 | < 0.05 | 1.55 | 23.8 | 2.16 | 0.05 | 0.3 | 66.0 | 16.3 |
| 91951 | 22.6 | > 3.00 | 1.39 | 6.67 | 1.36 | 1.11 | 0.1 | 51 | 175 | 987 | 7.12 | 1.5 | 103 | 2.2 | 5.1 | 0.9 | < 0.05 | 1.99 | 36.3 | 2.64 | 0.05 | 0.6 | 95.8 | 18.5 |
| 91952 | 14.5 | 2.69 | 0.83 | 6.20 | 1.54 | 1.36 | < 0.1 | 45 | 83.3 | 704 | 4.06 | < 0.1 | 48.5 | 1.7 | 2.9 | 0.7 | 0.14 | 1.28 | 16.2 | 1.87 | 0.05 | 0.1 | 46.9 | 13.9 |
| 91953 | 18.5 | > 3.00 | 1.00 | 6.62 | 1.55 | 1.15 | < 0.1 | 36 | 92.2 | 447 | 4.16 | 1.9 | 60.1 | 1.3 | 3.3 | 0.5 | < 0.05 | 1.51 | 19.6 | 1.54 | 0.03 | 0.3 | 58.6 | 17.3 |
| 91954 | 17.8 | 2.41 | 0.91 | 6.31 | 1.38 | 1.37 | < 0.1 | 60 | 66.7 | 402 | 4.62 | 3.4 | 29.2 | 1.2 | 1.2 | 0.4 | 0.06 | 1.75 | 12.6 | 1.00 | 0.08 | < 0.1 | 49.3 | 19.0 |
| 91955 | 15.7 | 2.96 | 1.05 | 6.65 | 1.63 | 1.16 | < 0.1 | 45 | 96.6 | 440 | 4.04 | 3.0 | 47.8 | 1.2 | 2.2 | 0.5 | < 0.05 | 1.51 | 16.8 | 1.30 | 0.04 | 0.7 | 51.6 | 16.7 |
| 91956 | 5.8 | 0.19 | 0.37 | 2.01 | 0.45 | 1.83 | 0.6 | 36 | 49.5 | 131 | 0.80 | 1.0 | 25.7 | 1.4 | 1.2 | 0.6 | 0.31 | 1.70 | 3.0 | 1.23 | 0.08 | 1.3 | 15.0 | 6.1 |
| 91957 | 22.4 | 2.52 | 1.15 | 6.72 | 1.81 | 1.50 | < 0.1 | 63 | 86.6 | 643 | 3.73 | 4.6 | 52.2 | 1.6 | 1.8 | 0.6 | 0.12 | 1.63 | 17.2 | 1.30 | 0.07 | 0.7 | 53.1 | 17.5 |
| 91958 | 21.8 | 2.58 | 1.22 | 6.72 | 1.71 | 1.40 | < 0.1 | 54 | 83.8 | 527 | 3.77 | 0.5 | 53.6 | 1.5 | 1.6 | 0.5 | 0.05 | 1.62 | 17.2 | 1.34 | 0.06 | 0.2 | 49.9 | 17.0 |
| 91959 | 28.1 | > 3.00 | 1.58 | 7.36 | 1.34 | 0.85 | 0.2 | 48 | 89.3 | 787 | 5.61 | 2.0 | 86.3 | 1.7 | 3.4 | 0.7 | < 0.05 | 2.44 | 34.6 | 1.80 | 0.06 | < 0.1 | 86.1 | 19.6 |
| 91960 | 21.9 | 2.37 | 1.08 | 6.22 | 1.54 | 1.19 | < 0.1 | 21 | 62.1 | 323 | 3.70 | 0.2 | 47.4 | 1.2 | 1.5 | 0.5 | < 0.05 | 1.70 | 13.9 | 1.13 | 0.06 | < 0.1 | 47.1 | 15.5 |
| 91961 | 23. | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91963 | 16.4 | 0.14 | 1.79 | 3.60 | 0.07 | 2.78 | 0.6 | 264 | 130 | 4850 | 17.7 | 0.1 | 127 | 10.6 | 7.1 | 4.8 | < 0.05 | 0.31 | 52.9 | 20.5 | 0.30 | 3.1 | 331 | 20.5 |
| 91964 | 21.8 | 2.50 | 1.05 | 5.97 | 1.20 | 1.71 | < 0.1 | 66 | 119 | 1130 | 4.90 | 2.7 | 66.5 | 2.1 | 3.7 | 0.9 | < 0.05 | 1.61 | 23.7 | 2.63 | 0.07 | 0.3 | 62.0 | 15.9 |
| 91965 | 35.4 | 2.05 | 1.62 | 5.86 | 0.99 | 3.73 | 0.4 | 171 | 107 | 3260 | 9.20 | < 0.1 | 90.2 | 10.6 | 8.0 | 4.8 | < 0.05 | 1.26 | 26.0 | 19.0 | 0.21 | 2.3 | 116 | 16.6 |
| 91966 | 35.3 | 2.55 | 1.43 | 5.81 | 0.81 | 2.60 | 0.2 | 102 | 186 | 1840 | 7.70 | 3.0 | 126 | 3.5 | 4.9 | 1.4 | < 0.05 | 1.63 | 53.6 | 4.61 | 0.10 | 0.9 | 143 | 19.9 |
| 91967 | 24.5 | 2.98 | 1.92 | 4.52 | 0.94 | 1.24 | < 0.1 | 167 | 172 | 801 | 5.08 | 4.3 | 106 | 1.4 | 2.3 | 0.5 | < 0.05 | 1.43 | 33.4 | 1.15 | 0.05 | < 0.1 | 88.4 | 19.7 |
| 91968 | 28.5 | > 3.00 | 2.07 | 6.56 | 0.96 | 2.27 | 0.2 | 105 | 154 | 1840 | 8.22 | < 0.1 | 141 | 4.0 | 4.5 | 1.6 | < 0.05 | 1.50 | 51.3 | 4.94 | 0.14 | 0.6 | 167 | 19.7 |
| 91969 | 26.5 | > 3.00 | 2.39 | 7.43 | 0.93 | 2.65 | < 0.1 | 54 | 228 | 1180 | 6.81 | 0.9 | 226 | 2.5 | 2.3 | 1.0 | < 0.05 | 1.75 | 52.5 | 2.59 | 0.04 | < 0.1 | 99.5 | 18.9 |
| 91970 | 21.9 | 2.42 | 2.03 | 5.83 | 0.99 | 2.81 | 1.0 | 53 | 117 | 1180 | 6.44 | 0.2 | 175 | 2.4 | 2.6 | 1.0 | < 0.05 | 1.33 | 55.7 | 2.34 | 0.05 | < 0.1 | 325 | 14.2 |
| 91971 | 34.2 | 2.78 | 3.16 | 7.47 | 1.04 | 2.57 | 0.1 | 59 | 281 | 1210 | 6.99 | 1.1 | 288 | 3.0 | 3.0 | 1.2 | < 0.05 | 1.81 | 72.5 | 3.38 | 0.06 | 0.7 | 122 | 18.6 |
| 91972 | 24.8 | > 3.00 | 2.36 | 7.30 | 1.03 | 1.27 | < 0.1 | 53 | 138 | 1140 | 6.32 | 1.6 | 121 | 2.2 | 3.7 | 0.9 | < 0.05 | 1.39 | 44.8 | 2.11 | 0.04 | 0.3 | 102 | 22.2 |
| 91973 | 31.8 | > 3.00 | 2.61 | 6.69 | 0.88 | 2.35 | 0.3 | 93 | 321 | 3210 | 8.11 | 1.7 | 193 | 3.6 | 3.8 | 1.4 | < 0.05 | 1.77 | 53.2 | 4.10 | 0.09 | 0.8 | 163 | 21.3 |
| 91974 | 33.2 | 1.54 | 3.31 | 6.01 | 0.43 | 2.75 | 0.2 | 134 | 185 | 1240 | 6.92 | 1.0 | 130 | 5.6 | 2.8 | 2.4 | < 0.05 | 1.24 | 46.0 | 7.56 | 0.10 | 0.8 | 111 | 17.8 |
| 91975 | 39.8 | 2.02 | 2.95 | 5.71 | 0.60 | 3.74 | 0.3 | 146 | 412 | 3960 | 6.04 | 1.1 | 282 | 2.0 | 1.9 | 0.8 | < 0.05 | 1.99 | 61.2 | 1.66 | 0.04 | 1.1 | 129 | 11.7 |
| 91976 | 32.7 | > 3.00 | 2.36 | 6.89 | 1.61 | 1.79 | 0.2 | 78 | 154 | 936 | 7.30 | 1.9 | 136 | 2.6 | 8.6 | 1.0 | < 0.05 | 2.48 | 51.2 | 2.80 | 0.04 | 0.4 | 130 | 21.6 |
| 91977 | 28.2 | > 3.00 | 1.61 | 4.67 | 1.18 | 0.91 | < 0.1 | 180 | 215 | 926 | 5.54 | 3.6 | 135 | 1.7 | 5.6 | 0.6 | < 0.05 | 2.09 | 37.8 | 1.54 | 0.03 | 0.1 | 90.1 | 19.3 |
| 91978 | 29.2 | > 3.00 | 2.07 | 6.92 | 0.82 | 0.62 | < 0.1 | 79 | 123 | 952 | 8.28 | 1.6 | 118 | 1.6 | 4.0 | 0.7 | < 0.05 | 1.50 | 59.6 | 2.76 | < 0.02 | < 0.1 | 129 | 23.6 |
| 91979 | 20.7 | > 3.00 | 1.01 | 6.46 | 1.50 | 1.06 | < 0.1 | 37 | 132 | 438 | 5.17 | 1.5 | 73.7 | 1.3 | 2.7 | 0.5 | < 0.05 | 1.62 | 21.6 | 1.45 | 0.03 | < 0.1 | 62.8 | 19.7 |
| 91980 | 28.6 | > 3.00 | 1.28 | 6.94 | 1.38 | 0.93 | < 0.1 | 42 | 134 | 598 | 6.13 | 1.5 | 85.4 | 1.7 | 4.7 | 0.7 | < 0.05 | 1.81 | 31.0 | 2.31 | 0.03 | < 0.1 | 80.7 | 21.5 |
| 91981 | 27.1 | > 3.00 | 1.96 | 6.93 | 1.21 | 1.01 | < 0.1 | 61 | 174 | 1230 | 7.47 | 0.9 | 149 | 2.1 | 6.6 | 0.8 | < 0.05 | 2.08 | 54.7 | 2.21 | 0.02 | 0.6 | 102 | 22.4 |
| 91982 | 25.7 | > 3.00 | 1.62 | 6.67 | 1.50 | 1.06 | < 0.1 | 48 | 120 | 707 | 6.18 | 1.8 | 104 | 2.2 | 5.3 | 0.9 | < 0.05 | 3.06 | 34.7 | 2.39 | 0.06 | < 0.1 | 104 | 21.8 |
| 91983 | 28.7 | 2.84 | 1.10 | 6.52 | 1.34 | 0.88 | < 0.1 | 49 | 117 | 425 | 4.81 | 1.9 | 79.8 | 1.2 | 3.7 | 0.5 | < 0.05 | 1.85 | 23.2 | 1.43 | 0.04 | 0.2 | 68.9 | 18.5 |
| 91984 | 19.6 | 2.96 | 0.74 | 6.16 | 1.35 | 0.97 | < 0.1 | 23 | 108 | 241 | 3.75 | 1.8 | 54.7 | 1.2 | 3.1 | 0.5 | < 0.05 | 1.89 | 14.1 | 1.37 | 0.04 | < 0.1 | 47.4 | 19.7 |
| 91985 | 32.1 | > 3.00 | 1.98 | 7.23 | 1.17 | 0.88 | < 0.1 | 72 | 238 | 1210 | 8.24 | 2.2 | 187 | 2.8 | 6.6 | 1.1 | < 0.05 | 3.61 | 52.4 | 2.99 | 0.03 | 0.6 | 104 | 25.6 |
| 91986 | 13.6 | > 3.00 | 0.83 | 6.35 | 1.32 | 0.87 | < 0.1 | 29 | 116 | 289 | 4.50 | 2.3 | 56.3 | 0.9 | 3.0 | 0.3 | < 0.05 | 2.93 | 13.8 | 1.27 | 0.05 | < 0.1 | 57.1 | 22.6 |
| 91987 | 47.6 | > 3.00 | 1.91 | 6.09 | 0.72 | 0.23 | 0.1 | 78 | 471 | 725 | 7.61 | 4.2 | 230 | 1.7 | 6.6 | 0.7 | 0.26 | 4.11 | 51.4 | 3.34 | 0.12 | 0.8 | 122 | 26.3 |
| 91988 | 30.9 | > 3.00 | 1.78 | 6.51 | 1.42 | 1.01 | < 0.1 | 45 | 236 | 505 | 6.52 | 1.6 | 186 | 2.3 | 7.4 | 0.9 | 0.09 | 2.89 | 45.6 | 2.95 | 0.07 | < 0.1 | 112 | 20.7 |
| 91989 | 19.6 | > 3.00 | 0.98 | 6.40 | 1.07 | 0.83 | < 0.1 | 36 | 89.8 | 440 | 5.93 | 1.1 | 67.1 | 1.0 | 3.1 | 0.4 | < 0.05 | 2.92 | 27.9 | 0.90 | 0.05 | 0.2 | 71.0 | 20.0 |
| 91990 | 12.5 | > 3.00 | 0.81 | 5.58 | 0.94 | 0.40 | < 0.1 | 41 | 85.0 | 455 | 6.96 | 1.6 | 65.8 | 0.7 | 3.7 | 0.3 | < 0.05 | 2.36 | 28.6 | 1.23 | 0.03 | < 0.1 | 85.1 | 22.1 |
| 91991 | 46.2 | > 3.00 | 3.08 | 6.50 | 1.15 | 0.77 | 0.1 | 180 | 649 | 1380 | 8.90 | 2.7 | 416 | 2.0 | 7.2 | 0.9 | 0.20 | 9.71 | 77.8 | 2.33 | 0.04 | 0.2 | 124 | 26.3 |
| 91992 | 29.6 | > 3.00 | 1.35 | 7.17 | 0.97 | 0.62 | < 0.1 | 103 | 282 | 472 | 7.76 | 2.5 | 133 | 1.1 | 5.5 | 0.4 | 0.07 | 1.65 | 42.5 | 1.86 | 0.04 | 0.2 | 132 | 26.1 |
| 91993 | 21.4 | 2.84 | 1.09 | 6.58 | 1.52 | 1.34 | < 0.1 | 52 | 130 | 661 | 4.73 | 2.9 | 74.6 | 1.7 | 3.1 | 0.6 | < 0.05 | 1.51 | 26.9 | 1.73 | 0.05 | 0.2 | 63.2 | 20.6 |
| 91994 | 16.2 | 2.69 | 0.72 | 6.16 | 1.55 | 1.15 | < 0.1 | 20 | 90.8 | 448 | 3.31 | 1.7 | 47.0 | 1.3 | 2.9 | 0.5 | < 0.05 | 1.24 | 15.7 | 1.30 | 0.04 | < 0.1 | 52.0 | 17.3 |
| 91995 | 16.2 | 2.71 | 0.72 | 4.53 | 1.39 | 1.30 | < 0.1 | 83 | 104 | 454 | 3.20 | 4.1 | 55.5 | 1.1 | 2.8 | 0.4 | < 0.05 | 1.05 | 16.8 | 0.91 | 0.03 | < 0.1 | 59.2 | 18.7 |
| 91996 | 39.6 | > 3.00 | 2.10 | 6.95 | 1.19 | 0.67 | 0.1 | 92 | 222 | 1330 | 7.32 | 2.1 | 172 | 2.4 | 8.2 | 0.9 | < 0.05 | 3.32 | 55.6 | 2.85 | 0.07 | 0.5 | 126 | 26.5 |
| 91997 | 45.8 | > 3.00 | 2.76 | 6.77 | 1.19 | 0.60 | < 0.1 | 58 | 123 | 652 | 8.96 | 0.6 | 140 | 1.2 | 9.2 | 0.4 | < 0.05 | 5.42 | 63.1 | 1.49 | 0.03 | 0.1 | 199 | 28.6 |
| 91998 | 31.6 | > 3.00 | 1.51 | 6.29 | 0.77 | 1.06 | 0.1 | 65 | 154 | 730 | 6.86 | 1.9 | 137 | 2.1 | 6.3 | 0.8 | < 0.05 | 2.20 | 50.9 | 2.40 | 0.06 | 0.2 | 128 | 25.4 |
| 91999 | 23.0 | > 3.00 | 1.89 | 6.69 | 0.39 | 1.03 | 0.1 | 47 | 129 | 1250 | 8.46 | 0.8 | 132 | 2.8 | 4.0 | 1.1 | < 0.05 | 1.82 | 61.6 | 3.04 | 0.02 | 0.4 | 138 | 25.8 |
| 92000 | 27.6 | > 3.00 | 1.38 | 6.80 | 0.91 | 0.88 | < 0.1 | 81 | 51.7 | 692 | 7.30 | 1.8 | 64.7 | 2.1 | 2.8 | 0.8 | < 0.05 | 1.82 | 40.1 | 2.28 | 0.03 | < 0.1 | 94.5 | 27.9 |
| 91851 | 44.4 | 2.35 | 1.75 | 5.92 | 1.02 | 1.97 | 0.1 | 78 | 224 | 1580 | 7.58 | < 0.1 | 173 | 3.8 | 6.9 | 1.6 | < 0.05 | 1.84 | 53.3 | 5.08 | 0.11 | 0.6 | 130 | 22.5 |
| 91852 | 34.8 | 2.24 | 1.57 | 5.86 | 1.22 | 2.25 | 0.3 | 142 | 153 | 1920 | 7.90 | 0.2 | 122 | 5.9 | 6.5 | 2.6 | < 0.05 | 2.00 | 45.0 | 8.20 | 0.21 | 1.1 | 164 | 21.1 |
| 91853 | 25.3 | 2.43 | 1.88 | 5.46 | 1.30 | 4.54 | 0.2 | 137 | 110 | 1050 | 5.49 | 2.9 | 79.6 | 3.9 | 5.0 | 1.7 | < 0.05 | 1.50 | 31.6 | 4.41 | 0.11 | 0.7 | 122 | 18.1 |
| 91854 | 41.1 | 1.65 | 2.25 | 4.80 | 1.14 | 5.13 | 0.6 | 182 | 135 | 2200 | 8.96 | < 0.1 | 131 | 7.6 | 8.8 | 3.2 | < 0.05 | 2.04 | 58.5 | 9.03 | 0.24 | 1.9 | 273 | 21.5 |
| 91855 | 24.8 | 1.25 | 1.75 | 4.32 | 0.30 | 4.38 | 0.1 | 123 | 194 | 544 | 4.67 | 1.5 | 137 | 2.3 | 2.2 | 0.9 | < 0.05 | 0.88 | 37.1 | 2.17 | 0.05 | 1.3 | 92.2 | 17.7 |
| 91856 | 27.1 | 2.98 | 2.20 | 6.45 | 0.83 | 1.49 | < 0.1 | 63 | 143 | 1050 | 6.21 | 1.4 | 132 | 2.6 | 2.9 | 1.1 | < 0.05 | 1.38 | 50.5 | 2.89 | 0.05 | < 0.1 | 122 | 23.6 |
| 91857 | 35.8 | 2.19 | 1.92 | 6.64 | 0.99 | 1.95 | 0.3 | 63 | 180 | 1360 | 7.72 | 0.6 | 189 | 3.1 | 3.3 | 1.3 | < 0.05 | 1.44 | 65.9 | 2.99 | 0.07 | < 0.1 | 186 | 21.0 |
| 91858 | 37.2 | 2.41 | 2.02 | 6.60 | 1.02 | 2.08 | 0.1 | 56 | 171 | 1460 | 6.86 | 1.3 | 183 | 3.2 | 3.9 | 1.4 | < 0.05 | 1.71 | 58.3 | 3.59 | 0.07 | 0.3 | 149 | 20.7 |
| 91859 | 45.8 | 1.70 | 1.62 | 5.73 | 0.77 | 2.02 | 0.2 | 101 | 125 | 1390 | 8.23 | < 0.1 | 133 | 5.0 | 6.9 | 2.2 | < 0.05 | 1.53 | 49.2 | 6.01 | 0.19 | 1.1 | 187 | 20.7 |
| 91860 | 21.1 | 2.65 | 1.66 | 7.69 | 0.34 | 1.65 | < 0.1 | 31 | 80.5 | 508 | 7.07 | 0.6 | 51.9 | 1.5 | 3.2 | 0.6 | < 0.05 | 1.37 | 37.4 | 1.38 | 0.04 | < 0.1 | 109 | 26.5 |
| 91861 | 40.3 | 2.39 | 1.48 | 6.32 | 1.24 | 1.26 | 0.2 | 83 | 104 | 930 | 5.72 | 1.7 | 103 | 2.2 | 4.3 | 0.9 | < 0.05 | 1.93 | 46.2 | 1.89 | 0.08 | < 0.1 | 127 | 22.5 |
| 91862 | 39.0 | 2.31 | 1.25 | 7.09 | 1.84 | 1.18 | < 0.1 | 40 | 78.6 | 476 | 4.18 | 1.8 | 76.3 | 1.5 | 2.3 | 0.6 | < 0.05 | 2.27 | 25.9 | 1.11 | 0.06 | < 0.1 | 79.3 | 24.6 |
| 91863 | 36.6 | > 3.00 | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91865 | 46.5 | 1.99 | 1.36 | 6.52 | 1.66 | 1.15 | < 0.1 | 70 | 199 | 537 | 6.24 | 2.4 | 91.8 | 2.0 | 6.4 | 0.8 | < 0.05 | 1.99 | 31.2 | 1.64 | 0.15 | < 0.1 | 90.1 | 29.9 |
| 91866 | 51.0 | 1.91 | 1.33 | 4.23 | 0.97 | 1.34 | < 0.1 | 141 | 122 | 582 | 5.79 | 4.6 | 94.7 | 1.6 | 3.5 | 0.7 | < 0.05 | 1.71 | 48.4 | 1.52 | 0.09 | < 0.1 | 85.5 | 23.2 |
| 91867 | 29.4 | 2.71 | 1.79 | 6.81 | 1.47 | 1.63 | 0.2 | 59 | 117 | 1460 | 6.73 | < 0.1 | 109 | 3.0 | 4.0 | 1.2 | 0.21 | 1.77 | 35.2 | 3.85 | 0.19 | 1.4 | 116 | 18.1 |
| 91868 | 30.5 | 2.47 | 1.92 | 6.73 | 1.51 | 1.52 | 0.2 | 99 | 152 | 1790 | 8.42 | < 0.1 | 150 | 4.7 | 4.0 | 2.0 | < 0.05 | 1.92 | 38.1 | 6.92 | 0.22 | 1.5 | 173 | 18.5 |
| 91869 | 25.0 | 2.63 | 1.69 | 7.10 | 1.81 | 1.40 | 0.1 | 53 | 95.0 | 806 | 5.52 | 0.8 | 85.2 | 1.9 | 3.3 | 0.7 | < 0.05 | 1.81 | 23.9 | 1.83 | 0.03 | 1.1 | 73.8 | 18.5 |
| 91870 | 32.9 | 1.99 | 1.47 | 5.77 | 0.66 | 2.15 | 0.4 | 121 | 244 | 2230 | 11.2 | 0.6 | 160 | 7.1 | 8.8 | 3.0 | < 0.05 | 1.21 | 50.4 | 10.4 | 0.26 | 1.5 | 171 | 18.2 |
| 91871 | 21.6 | 1.48 | 1.22 | 4.73 | 1.06 | 2.96 | 0.3 | 115 | 146 | 3020 | 5.99 | 2.2 | 98.9 | 2.4 | 3.2 | 1.0 | < 0.05 | 1.83 | 31.8 | 2.65 | 0.07 | 1.1 | 85.8 | 14.0 |
| 91872 | 40.0 | 1.47 | 0.63 | 8.40 | 2.30 | 1.24 | < 0.1 | 95 | 414 | 707 | 6.43 | 3.4 | 198 | 1.7 | 10.1 | 0.7 | < 0.05 | 1.60 | 52.1 | 2.49 | < 0.02 | 1.2 | 72.3 | 33.4 |
| 91873 | 23.3 | 2.52 | 2.35 | 6.30 | 1.51 | 2.92 | 0.2 | 95 | 137 | 1160 | 7.46 | 3.0 | 100 | 2.9 | 3.7 | 1.1 | < 0.05 | 1.76 | 32.7 | 3.41 | 0.08 | 0.9 | 107 | 17.5 |
| 91874 | 30.7 | 2.33 | 2.25 | 6.26 | 1.32 | 2.13 | 0.3 | 156 | 117 | 1770 | 7.92 | 0.2 | 76.2 | 4.2 | 4.3 | 1.7 | < 0.05 | 1.64 | 26.6 | 4.89 | 0.03 | 1.3 | 104 | 17.3 |
| 91875 | 21.1 | 2.52 | 1.29 | 4.57 | 1.53 | 0.99 | < 0.1 | 124 | 122 | 676 | 5.00 | 4.5 | 67.9 | 1.1 | 2.9 | 0.4 | < 0.05 | 1.27 | 21.0 | 0.88 | < 0.02 | 0.6 | 62.9 | 16.7 |
| 91876 | 13.7 | 2.72 | 1.00 | 6.37 | 1.54 | 1.18 | 0.1 | 69 | 95.3 | 733 | 4.89 | 2.7 | 49.3 | 1.6 | 4.3 | 0.6 | < 0.05 | 1.05 | 17.7 | 1.56 | < 0.02 | 0.7 | 53.6 | 15.4 |
| 91877 | 34.1 | 2.34 | 1.60 | 6.29 | 1.14 | 1.88 | 0.2 | 124 | 102 | 1450 | 9.02 | < 0.1 | 100 | 4.4 | 6.3 | 1.8 | < 0.05 | 1.54 | 38.5 | 5.63 | 0.15 | 0.9 | 132 | 18.6 |
| 91878 | 38.9 | 2.19 | 1.33 | 5.78 | 0.91 | 2.37 | 0.3 | 167 | 47.2 | 1420 | 8.95 | < 0.1 | 79.2 | 8.2 | 8.0 | 3.4 | < 0.05 | 1.63 | 31.1 | 10.7 | 0.27 | 1.3 | 150 | 17.0 |
| 91879 | 18.5 | > 3.00 | 2.01 | 6.34 | 1.28 | 1.27 | 0.2 | 89 | 196 | 1880 | 11.2 | 0.9 | 114 | 4.2 | 4.1 | 1.7 | < 0.05 | 1.46 | 48.5 | 5.40 | 0.03 | 0.9 | 88.9 | 18.4 |
| 91880 | 21.7 | > 3.00 | 1.18 | 6.78 | 0.99 | 0.71 | 0.1 | 57 | 129 | 765 | 9.43 | 1.7 | 65.8 | 1.8 | 3.1 | 0.7 | < 0.05 | 1.09 | 26.1 | 2.03 | < 0.02 | 0.5 | 78.5 | 18.4 |
| 91881 | 23.1 | > 3.00 | 2.13 | 7.05 | 0.71 | 0.51 | < 0.1 | 109 | 223 | 1340 | 10.1 | 2.5 | 132 | 1.5 | 3.1 | 0.6 | < 0.05 | 0.96 | 60.7 | 2.24 | < 0.02 | 0.6 | 134 | 22.2 |
| 91882 | 14.3 | > 3.00 | 0.97 | 6.40 | 0.95 | 0.76 | 0.1 | 91 | 137 | 1240 | 9.47 | 2.9 | 58.8 | 1.9 | 3.3 | 0.8 | < 0.05 | 0.75 | 38.5 | 2.49 | < 0.02 | 0.8 | 56.6 | 16.7 |
| 91883 | 32.2 | > 3.00 | 2.05 | 6.90 | 1.19 | 0.50 | 0.1 | 103 | 140 | 973 | 10.5 | 2.4 | 107 | 1.5 | 5.9 | 0.6 | < 0.05 | 1.20 | 50.9 | 2.30 | < 0.02 | 1.1 | 100 | 20.7 |
| 91884 | 16.8 | > 3.00 | 1.95 | 6.52 | 1.05 | 0.79 | 0.1 | 79 | 104 | 1440 | 10.3 | 1.8 | 91.9 | 2.3 | 3.5 | 1.0 | < 0.05 | 0.75 | 47.0 | 3.57 | < 0.02 | 0.7 | 105 | 20.1 |
| 91885 | 27.0 | > 3.00 | 1.91 | 4.90 | 0.75 | 0.52 | < 0.1 | 218 | 116 | 782 | 10.3 | 6.3 | 89.5 | 0.9 | 3.7 | 0.3 | < 0.05 | 0.55 | 55.0 | 1.08 | < 0.02 | 0.5 | 91.9 | 21.3 |
| 91886 | 14.0 | > 3.00 | 2.12 | 6.26 | 0.60 | 0.95 | < 0.1 | 44 | 42.2 | 743 | 6.59 | 1.1 | 83.5 | 1.2 | 2.6 | 0.5 | < 0.05 | 1.26 | 52.3 | 2.00 | 0.08 | 0.6 | 103 | 21.5 |
| 91887 | 17.8 | > 3.00 | 1.62 | 6.97 | 1.13 | 1.06 | < 0.1 | 82 | 142 | 1050 | 7.45 | 0.2 | 89.9 | 1.8 | 4.1 | 0.7 | < 0.05 | 1.39 | 32.0 | 2.20 | < 0.02 | 0.6 | 71.3 | 18.6 |
| 91888 | 26.4 | 2.17 | 1.81 | 6.85 | 1.75 | 1.26 | < 0.1 | 51 | 96.1 | 695 | 5.04 | 0.1 | 86.4 | 1.5 | 2.0 | 0.6 | < 0.05 | 1.82 | 21.7 | 1.34 | 0.02 | 0.8 | 72.6 | 18.0 |
| 91889 | 22.4 | > 3.00 | 1.39 | 7.31 | 1.28 | 0.78 | 0.1 | 40 | 116 | 593 | 6.93 | 1.8 | 78.0 | 1.6 | 4.1 | 0.6 | < 0.05 | 1.60 | 26.0 | 1.85 | < 0.02 | 0.6 | 96.9 | 20.7 |
| 91890 | 20.8 | 2.87 | 2.76 | 6.65 | 1.05 | 1.19 | < 0.1 | 81 | 213 | 889 | 10.5 | 1.5 | 120 | 2.6 | 4.2 | 1.0 | < 0.05 | 1.98 | 42.3 | 3.82 | 0.08 | 0.9 | 141 | 21.2 |
| 91891 | < 0.5 | 0.04 | 0.42 | 0.33 | 0.04 | 3.68 | 0.7 | 7 | < 0.5 | 41 | 0.14 | < 0.1 | 11.8 | 0.5 | 0.6 | 0.2 | < 0.05 | 0.07 | 0.6 | 0.36 | < 0.02 | 1.2 | 53.5 | 1.0 |
| 91892 | 11.8 | > 3.00 | 1.00 | 5.18 | 0.75 | 1.70 | 0.1 | 109 | 85.8 | 1370 | 10.6 | 1.5 | 90.1 | 1.5 | 1.4 | 0.6 | < 0.05 | 0.78 | 37.5 | 2.57 | < 0.02 | 0.5 | 86.5 | 23.8 |
| 91893 | 24.6 | 1.43 | 1.73 | 5.17 | 1.70 | 0.68 | 0.2 | 74 | 290 | 694 | 6.58 | 1.4 | 94.6 | 3.3 | 4.6 | 1.2 | < 0.05 | 1.31 | 38.9 | 3.18 | 0.09 | 0.9 | 64.2 | 16.0 |
| 91894 | 17.3 | 2.90 | 1.22 | 6.53 | 1.23 | 0.94 | 0.1 | 77 | 126 | 380 | 6.69 | 0.4 | 60.0 | 3.2 | 3.1 | 1.2 | < 0.05 | 1.86 | 20.3 | 2.63 | 0.09 | 1.2 | 83.4 | 21.0 |
| 91895 | 26.1 | 2.59 | 1.61 | 4.73 | 1.10 | 1.15 | 0.2 | 175 | 164 | 784 | 6.96 | 4.2 | 80.3 | 2.0 | 3.2 | 0.7 | < 0.05 | 2.47 | 27.7 | 2.11 | 0.07 | 0.9 | 67.5 | 18.3 |
| 91896 | 24.3 | 2.33 | 1.72 | 6.76 | 1.90 | 1.59 | 0.3 | 86 | 131 | 941 | 6.56 | < 0.1 | 94.7 | 2.0 | 2.8 | 0.8 | < 0.05 | 1.82 | 26.2 | 2.10 | 0.10 | 1.2 | 114 | 17.6 |
| 91897 | 20.4 | 1.93 | 3.31 | 4.91 | 1.24 | 5.43 | 0.3 | 144 | 135 | 1370 | 7.23 | 0.2 | 104 | 3.7 | 3.9 | 1.5 | < 0.05 | 1.54 | 34.4 | 4.36 | 0.14 | 1.2 | 129 | 14.8 |
| 91898 | 22.8 | 1.64 | 1.13 | 4.99 | 1.25 | 3.79 | 0.5 | 213 | 62.8 | 3430 | 11.0 | < 0.1 | 63.2 | 13.5 | 11.5 | 5.7 | < 0.05 | 1.31 | 28.4 | 20.7 | 0.35 | 2.9 | 173 | 16.8 |
| 91899 | 17.0 | 2.75 | 1.18 | 6.86 | 1.62 | 1.05 | < 0.1 | 29 | 64.3 | 321 | 4.62 | 0.4 | 54.9 | 1.1 | 3.0 | 0.4 | < 0.05 | 1.49 | 15.1 | 1.17 | < 0.02 | 0.4 | 56.0 | 18.2 |
| 91900 | 31.5 | 2.35 | 1.38 | 6.51 | 1.54 | 1.21 | 0.3 | 121 | 118 | 851 | 8.00 | 0.4 | 51.3 | 3.3 | 4.6 | 1.3 | < 0.05 | 2.58 | 29.7 | 3.13 | 0.10 | 1.5 | 109 | 20.6 |
| 91901 | 19.1 | 2.69 | 1.28 | 6.55 | 1.52 | 1.91 | 0.1 | 118 | 71.1 | 1020 | 5.39 | 2.4 | 64.4 | 3.3 | 3.3 | 1.3 | < 0.05 | 1.40 | 21.3 | 3.96 | 0.06 | 1.0 | 77.6 | 16.8 |
| 91902 | 25.9 | 2.10 | 1.73 | 6.01 | 0.86 | 2.00 | 0.5 | 154 | 151 | 3870 | 9.03 | 0.4 | 98.9 | 3.6 | 4.1 | 1.5 | < 0.05 | 1.77 | 35.0 | 3.93 | 0.13 | 1.3 | 175 | 17.1 |
| 91903 | 19.0 | 2.24 | 1.33 | 4.71 | 1.05 | 1.74 | 0.2 | 116 | 124 | 1590 | 5.73 | 4.0 | 66.9 | 1.9 | 2.4 | 0.7 | < 0.05 | 1.25 | 20.7 | 1.71 | 0.02 | 1.6 | 70.3 | 15.2 |
| 91904 | 1.5 | 0.08 | 0.46 | 0.44 | 0.09 | 3.40 | 0.4 | 9 | 12.2 | 225 | 2.51 | 0.2 | 35.5 | 0.5 | 0.5 | 0.2 | < 0.05 | 0.17 | 2.2 | 0.49 | < 0.02 | 4.4 | 144 | 0.9 |
| 91905 | 29.2 | 2.21 | 2.32 | 5.88 | 1.35 | 3.32 | 0.3 | 82 | 134 | 3130 | 6.77 | < 0.1 | 119 | 3.2 | 4.6 | 1.2 | < 0.05 | 1.68 | 35.5 | 3.47 | 0.10 | 0.9 | 116 | 16.7 |
| 91906 | 23.8 | 2.31 | 1.63 | 6.56 | 1.56 | 1.55 | < 0.1 | 51 | 95.4 | 568 | 4.90 | < 0.1 | 76.4 | 1.7 | 2.0 | 0.6 | < 0.05 | 1.63 | 19.7 | 1.64 | 0.03 | 0.4 | 75.8 | 17.0 |
| 91907 | 32.7 | 2.08 | 1.97 | 6.27 | 1.63 | 2.26 | 0.3 | 61 | 182 | 1780 | 7.31 | 0.4 | 166 | 3.4 | 4.5 | 1.4 | < 0.05 | 1.79 | 39.8 | 4.09 | 0.23 | 0.7 | 147 | 17.8 |
| 91908 | 76.8 | 1.37 | 2.08 | 5.81 | 0.33 | 1.64 | 0.9 | 122 | 227 | 3160 | 13.2 | 1.2 | 167 | 15.7 | 28.5 | 6.7 | < 0.05 | 1.54 | 51.5 | 23.4 | 1.03 | 2.9 | 522 | 17.2 |
| 91909 | 34.4 | 2.37 | 1.73 | 6.39 | 1.37 | 1.97 | 0.7 | 175 | 157 | 2720 | 9.01 | 0.4 | 165 | 5.2 | 6.3 | 2.1 | < 0.05 | 1.69 | 46.3 | 6.91 | 0.20 | 1.5 | 208 | 18.8 |
| 91910 | 28.5 | 2.79 | 1.63 | 6.56 | 1.22 | 1.35 | < 0.1 | 70 | 142 | 962 | 6.92 | 2.6 | 87.5 | 2.3 | 3.9 | 0.9 | < 0.05 | 1.72 | 30.6 | 2.76 | 0.04 | 1.0 | 73.9 | 19.0 |
| 91911 | 24.8 | 1.31 | 1.48 | 4.66 | 0.75 | 5.58 | 0.4 | 218 | 129 | 3710 | 8.38 | < 0.1 | 142 | 9.2 | 6.1 | 4.0 | < 0.05 | 0.83 | 38.4 | 14.7 | 0.15 | 1.8 | 93.6 | 15.6 |
| 91912 | 25.5 | 2.47 | 1.79 | 6.50 | 1.42 | 1.94 | 0.2 | 113 | 141 | 1460 | 7.13 | 3.2 | 103 | 3.3 | 3.4 | 1.3 | < 0.05 | 1.53 | 34.2 | 3.77 | 0.06 | 0.8 | 115 | 18.3 |
| 91913 | 27.4 | 2.37 | 1.80 | 6.73 | 1.67 | 1.68 | 0.2 | 90 | 129 | 909 | 6.33 | 1.0 | 94.3 | 2.9 | 3.2 | 1.2 | < 0.05 | 1.74 | 25.5 | 3.54 | 0.08 | 1.0 | 97.6 | 18.8 |
| 91914 | 26.1 | 1.92 | 1.17 | 4.68 | 0.66 | 1.63 | 0.4 | 128 | 192 | 994 | 7.71 | 2.4 | 84.2 | 2.2 | 3.6 | 0.8 | < 0.05 | 1.17 | 29.1 | 2.21 | 0.08 | 0.4 | 87.0 | 17.6 |
| 91915 | 20.7 | 2.63 | 1.50 | 6.76 | 0.88 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91917 | 32.5 | 2.48 | 2.70 | 7.35 | 0.77 | 1.68 | 0.1 | 57 | 336 | 843 | 7.85 | 0.7 | 192 | 2.2 | 2.7 | 0.8 | < 0.05 | 1.30 | 49.9 | 1.65 | 0.09 | 0.5 | 83.5 | 18.2 |
| 91918 | 19.5 | 2.96 | 1.96 | 6.52 | 0.85 | 1.27 | 0.1 | 58 | 127 | 1090 | 6.93 | 0.9 | 89.9 | 2.2 | 2.9 | 0.9 | < 0.05 | 1.24 | 35.5 | 2.40 | < 0.02 | 0.6 | 74.0 | 17.5 |
| 91919 | 24.0 | 2.48 | 2.35 | 7.00 | 0.98 | 2.11 | 0.4 | 89 | 372 | 1580 | 9.65 | 1.6 | 315 | 3.4 | 2.5 | 1.3 | < 0.05 | 1.18 | 70.6 | 3.74 | 0.04 | 1.2 | 198 | 18.8 |
| 91920 | 26.7 | > 3.00 | 2.77 | 7.37 | 0.89 | 2.01 | 0.1 | 70 | 271 | 868 | 7.64 | 1.7 | 155 | 2.5 | 2.9 | 1.0 | < 0.05 | 1.52 | 44.8 | 2.52 | 0.02 | 0.5 | 102 | 20.8 |
| 91921 | 22.9 | > 3.00 | 2.56 | 6.69 | 0.93 | 2.21 | 0.2 | 89 | 236 | 1770 | 7.19 | 1.9 | 158 | 2.9 | 3.2 | 1.2 | < 0.05 | 1.38 | 44.0 | 3.19 | 0.03 | 0.8 | 108 | 18.7 |
| 91922 | 6.2 | 2.70 | 0.88 | 5.01 | 0.57 | 0.55 | 0.1 | 88 | 106 | 340 | 11.6 | 0.9 | 43.3 | 1.2 | 1.5 | 0.5 | < 0.05 | 0.58 | 13.1 | 1.47 | 0.28 | 1.3 | 41.7 | 15.5 |
| 91923 | 23.0 | > 3.00 | 2.21 | 7.28 | 0.84 | 0.92 | 0.1 | 66 | 151 | 920 | 8.37 | 1.5 | 106 | 1.8 | 2.9 | 0.7 | < 0.05 | 1.12 | 38.5 | 1.85 | 0.11 | 0.9 | 80.6 | 20.0 |
| 92576 | 21.4 | 1.73 | 1.04 | 5.11 | 1.61 | 0.95 | 0.2 | 79 | 99.4 | 403 | 3.88 | 5.2 | 45.0 | 0.9 | 1.3 | 0.3 | < 0.05 | 1.34 | 12.1 | 0.67 | 0.02 | 0.3 | 32.4 | 16.7 |
| 92577 | 18.0 | 2.15 | 0.90 | 6.57 | 1.76 | 1.33 | 0.1 | 63 | 66.3 | 414 | 3.73 | 4.8 | 34.6 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.05 | 12.3 | 0.85 | < 0.02 | 0.7 | 28.3 | 15.7 |
| 92578 | 17.5 | 2.20 | 0.81 | 6.85 | 1.87 | 1.33 | < 0.1 | 57 | 55.0 | 383 | 3.44 | 3.1 | 26.7 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.13 | 9.8 | 0.84 | < 0.02 | 1.1 | 25.4 | 16.3 |
| 92579 | 20.3 | 1.97 | 1.14 | 6.36 | 1.89 | 1.30 | 0.1 | 62 | 69.3 | 516 | 3.62 | 0.8 | 37.6 | 1.3 | 1.4 | 0.5 | < 0.05 | 1.63 | 11.8 | 1.23 | < 0.02 | 0.8 | 33.0 | 16.6 |
| 92580 | 19.0 | 1.92 | 1.15 | 6.01 | 1.70 | 1.66 | 0.3 | 80 | 62.3 | 958 | 3.93 | < 0.1 | 36.1 | 1.8 | 1.8 | 0.7 | < 0.05 | 1.72 | 13.5 | 2.03 | 0.03 | 0.6 | 61.1 | 15.9 |
| 92581 | 19.2 | 1.77 | 1.11 | 5.89 | 1.67 | 1.66 | 0.2 | 78 | 74.6 | 667 | 3.90 | 0.7 | 39.1 | 1.6 | 1.6 | 0.6 | < 0.05 | 1.69 | 12.0 | 1.72 | 0.02 | 0.4 | 51.9 | 14.9 |
| 92582 | 48.0 | 1.64 | 2.63 | 5.85 | 1.80 | 2.15 | 0.4 | 133 | 154 | 1310 | 5.81 | 0.2 | 81.0 | 4.1 | 4.3 | 1.6 | < 0.05 | 2.66 | 30.0 | 5.32 | 0.03 | 1.0 | 159 | 17.1 |
| 92583 | 18.5 | 1.69 | 2.08 | 5.08 | 1.46 | 5.63 | 0.3 | 121 | 57.1 | 1260 | 4.72 | < 0.1 | 48.9 | 5.7 | 1.8 | 2.5 | < 0.05 | 1.30 | 17.9 | 9.34 | 0.09 | 1.3 | 77.7 | 13.6 |
| 92584 | 18.7 | 2.21 | 0.93 | 6.78 | 1.84 | 1.25 | 0.1 | 43 | 65.0 | 455 | 3.80 | 0.8 | 36.5 | 1.2 | 1.6 | 0.4 | < 0.05 | 1.22 | 13.5 | 0.97 | 0.13 | 0.6 | 36.6 | 16.3 |
| 92585 | 25.7 | 2.05 | 1.41 | 5.33 | 1.78 | 1.96 | 0.3 | 97 | 92.7 | 976 | 4.68 | 2.7 | 56.3 | 2.6 | 3.9 | 1.0 | < 0.05 | 1.39 | 17.5 | 3.00 | 0.07 | 0.7 | 75.9 | 16.6 |
| 92586 | 17.6 | 2.26 | 1.02 | 6.61 | 1.87 | 1.45 | < 0.1 | 57 | 65.6 | 559 | 3.62 | 5.0 | 34.8 | 1.5 | 1.3 | 0.5 | < 0.05 | 1.22 | 11.3 | 1.15 | < 0.02 | 0.9 | 31.2 | 16.3 |
| 92587 | 19.0 | 1.94 | 0.83 | 6.21 | 1.73 | 1.17 | 0.2 | 41 | 52.7 | 367 | 3.57 | 0.3 | 27.4 | 1.0 | 1.2 | 0.4 | < 0.05 | 1.35 | 9.2 | 0.79 | < 0.02 | 0.7 | 34.2 | 16.0 |
| 92588 | 16.8 | 2.22 | 0.91 | 6.65 | 1.86 | 1.34 | 0.1 | 36 | 54.2 | 423 | 3.50 | 2.6 | 31.3 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.08 | 11.2 | 0.86 | < 0.02 | 0.1 | 26.8 | 15.7 |
| 92589 | 11.9 | 2.05 | 0.63 | 5.83 | 1.68 | 1.19 | < 0.1 | 44 | 42.9 | 292 | 2.37 | 3.8 | 19.7 | 0.9 | 1.1 | 0.3 | < 0.05 | 0.86 | 6.3 | 0.74 | < 0.02 | 0.9 | 27.7 | 13.3 |
| 92590 | 14.7 | 2.14 | 0.79 | 6.26 | 1.86 | 1.36 | 0.2 | 55 | 55.1 | 443 | 3.23 | 4.9 | 27.0 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.08 | 9.6 | 0.88 | < 0.02 | 1.2 | 38.7 | 15.0 |
| 92591 | 19.0 | 1.87 | 0.96 | 5.85 | 1.74 | 2.47 | 0.3 | 64 | 39.7 | 1180 | 3.92 | 0.7 | 27.3 | 2.8 | 2.4 | 1.2 | < 0.05 | 1.37 | 11.0 | 5.15 | 0.13 | 1.2 | 75.1 | 14.6 |
| 92592 | 22.1 | 1.85 | 0.84 | 6.49 | 1.65 | 1.35 | 0.2 | 59 | 58.1 | 780 | 4.00 | 3.7 | 31.9 | 1.4 | 2.2 | 0.6 | < 0.05 | 1.16 | 14.8 | 1.55 | 0.03 | 1.3 | 74.1 | 14.4 |
| 92593 | 19.5 | 1.82 | 0.95 | 5.81 | 1.52 | 2.31 | 0.5 | 73 | 43.0 | 1350 | 4.28 | 0.5 | 28.1 | 4.8 | 2.7 | 2.0 | < 0.05 | 1.32 | 11.9 | 9.06 | 0.18 | 1.7 | 120 | 14.3 |
| 92594 | 16.3 | 2.01 | 0.75 | 6.25 | 1.72 | 1.42 | 0.1 | 54 | 51.9 | 507 | 3.28 | 5.1 | 24.3 | 1.7 | 1.4 | 0.6 | < 0.05 | 1.09 | 9.2 | 1.69 | 0.02 | 0.6 | 39.5 | 14.6 |
| 92595 | 13.3 | 1.83 | 0.74 | 5.89 | 1.62 | 1.24 | 0.1 | 70 | 62.0 | 600 | 4.38 | 5.8 | 23.4 | 1.2 | 1.4 | 0.5 | < 0.05 | 1.31 | 9.2 | 1.18 | 0.03 | 0.5 | 39.8 | 15.3 |
| 92596 | 17.1 | 1.87 | 0.86 | 5.72 | 1.59 | 1.29 | 0.1 | 56 | 58.7 | 530 | 3.26 | 4.6 | 29.3 | 1.4 | 1.4 | 0.5 | < 0.05 | 1.03 | 11.0 | 1.40 | 0.02 | 1.1 | 39.8 | 13.6 |
| 92597 | 24.7 | 1.63 | 1.32 | 5.01 | 1.46 | 1.96 | 0.5 | 86 | 75.1 | 827 | 4.43 | 3.1 | 47.7 | 2.9 | 3.0 | 1.2 | < 0.05 | 1.45 | 11.5 | 6.44 | 0.06 | 1.7 | 318 | 13.8 |
| 92598 | 16.5 | 1.81 | 0.70 | 2.97 | 1.37 | 1.35 | 0.2 | 67 | 71.9 | 730 | 3.52 | 4.5 | 32.8 | 1.2 | 1.8 | 0.4 | < 0.05 | 0.72 | 11.2 | 1.02 | < 0.02 | 1.0 | 43.0 | 13.1 |
| 92599 | 26.8 | 0.51 | 2.06 | 2.97 | 0.55 | 8.34 | 1.9 | > 1000 | 25.2 | 2900 | 12.0 | < 0.1 | 75.3 | 11.5 | 6.8 | 4.9 | < 0.05 | 1.13 | 63.7 | 18.8 | 0.25 | 2.7 | 874 | 14.9 |
| 92600 | 18.0 | 1.52 | 1.30 | 4.81 | 1.30 | 3.07 | 0.5 | 109 | 41.0 | 1540 | 5.07 | 0.3 | 38.4 | 4.3 | 4.7 | 1.7 | < 0.05 | 1.50 | 13.9 | 7.41 | 0.12 | 0.9 | 225 | 12.6 |
| 92601 | 19.6 | 1.39 | 1.75 | 4.58 | 1.11 | 3.39 | 0.3 | 114 | 26.6 | 1560 | 4.74 | < 0.1 | 29.0 | 3.6 | 4.6 | 1.5 | < 0.05 | 1.49 | 16.5 | 6.36 | 0.09 | 0.8 | 109 | 12.1 |
| 92602 | 24.0 | 1.79 | 1.48 | 5.59 | 1.54 | 2.86 | 0.2 | 92 | 38.2 | 1990 | 5.02 | < 0.1 | 32.2 | 5.5 | 5.3 | 2.3 | < 0.05 | 1.47 | 15.9 | 8.41 | 0.17 | 1.0 | 107 | 13.5 |
| 92603 | 23.4 | 1.74 | 1.51 | 5.47 | 1.45 | 2.66 | 0.3 | 101 | 34.8 | 1810 | 5.33 | < 0.1 | 40.7 | 4.6 | 3.4 | 1.9 | < 0.05 | 1.32 | 16.6 | 9.13 | 0.22 | 0.7 | 109 | 13.3 |
| 92604 | 20.9 | 1.77 | 1.26 | 5.38 | 1.53 | 2.52 | 0.3 | 85 | 37.5 | 1780 | 4.40 | < 0.1 | 33.5 | 4.4 | 4.9 | 1.8 | < 0.05 | 1.09 | 14.5 | 8.15 | 0.19 | 0.8 | 95.0 | 12.7 |
| 92605 | 27.5 | 1.82 | 1.57 | 5.57 | 1.70 | 3.56 | 0.6 | 89 | 41.7 | 3510 | 5.31 | < 0.1 | 29.9 | 6.0 | 5.4 | 2.6 | < 0.05 | 1.15 | 15.8 | 13.5 | 0.41 | 0.8 | 173 | 12.7 |
| 92606 | 21.4 | 1.82 | 1.28 | 5.46 | 1.54 | 3.30 | 0.8 | 75 | 42.2 | 4760 | 5.74 | < 0.1 | 27.0 | 7.0 | 4.0 | 3.0 | < 0.05 | 1.03 | 14.0 | 17.7 | 0.42 | 1.3 | 171 | 12.6 |
| 92607 | 18.9 | 1.50 | 1.71 | 4.73 | 1.36 | 4.45 | 0.7 | 83 | 46.3 | 3060 | 6.24 | < 0.1 | 25.0 | 8.2 | 3.7 | 3.5 | < 0.05 | 1.18 | 11.9 | 17.9 | 0.34 | 1.7 | 266 | 11.6 |
| 92608 | 18.4 | 1.92 | 0.72 | 3.09 | 1.69 | 1.17 | 0.1 | 59 | 66.1 | 465 | 3.14 | 3.8 | 31.7 | 0.8 | 1.2 | 0.3 | < 0.05 | 1.07 | 12.3 | 0.49 | 0.03 | 0.6 | 47.6 | 14.1 |
| 92609 | 13.9 | 2.01 | 0.67 | 5.02 | 1.69 | 1.10 | < 0.1 | 53 | 57.1 | 340 | 2.64 | 4.3 | 24.2 | 1.0 | 1.1 | 0.3 | < 0.05 | 0.92 | 7.9 | 0.63 | < 0.02 | < 0.1 | 29.9 | 13.7 |
| 92610 | 15.3 | 2.05 | 0.86 | 6.19 | 1.81 | 1.26 | 0.1 | 55 | 56.3 | 428 | 3.07 | 4.1 | 27.4 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.11 | 9.3 | 0.97 | < 0.02 | 0.4 | 34.7 | 14.2 |
| 92611 | 16.2 | 1.85 | 0.73 | 6.26 | 1.74 | 1.10 | < 0.1 | 59 | 54.3 | 304 | 3.34 | 4.3 | 24.8 | 1.0 | 1.2 | 0.4 | < 0.05 | 1.33 | 8.0 | 0.95 | < 0.02 | 0.3 | 36.7 | 14.7 |
| 92612 | 18.9 | 1.92 | 1.08 | 6.31 | 1.83 | 1.59 | 0.1 | 66 | 61.8 | 593 | 3.68 | 4.9 | 37.3 | 1.8 | 1.7 | 0.7 | < 0.05 | 1.47 | 10.9 | 2.03 | 0.06 | 0.3 | 57.5 | 15.1 |
| 92613 | 20.7 | 1.85 | 1.14 | 6.21 | 1.85 | 1.66 | 0.1 | 64 | 59.0 | 664 | 3.67 | 0.7 | 34.9 | 1.8 | 1.5 | 0.7 | < 0.05 | 1.53 | 11.6 | 2.09 | 0.05 | 0.2 | 58.0 | 14.3 |
| 92614 | 17.5 | 1.83 | 1.18 | 5.76 | 1.61 | 1.94 | 0.2 | 77 | 95.3 | 662 | 4.57 | < 0.1 | 29.1 | 2.3 | 1.9 | 0.9 | < 0.05 | 1.30 | 9.9 | 2.10 | < 0.02 | 0.8 | 117 | 13.4 |
| 92615 | 22.7 | 1.80 | 1.29 | 5.48 | 1.46 | 2.49 | 0.2 | 96 | 47.8 | 1540 | 4.69 | < 0.1 | 44.1 | 4.1 | 4.2 | 1.7 | < 0.05 | 1.33 | 14.4 | 8.62 | 0.47 | 0.8 | 115 | 13.1 |
| 92616 | 17.4 | 2.12 | 1.02 | 6.42 | 1.88 | 1.58 | 0.1 | 68 | 58.0 | 634 | 3.68 | 0.4 | 31.4 | 1.9 | 1.4 | 0.8 | < 0.05 | 1.18 | 11.1 | 2.03 | 0.02 | 0.3 | 50.0 | 14.5 |
| 92617 | 14.1 | 2.04 | 0.71 | 6.36 | 1.82 | 1.19 | < 0.1 | 57 | 47.1 | 325 | 2.99 | 4.0 | 21.0 | 1.0 | 1.2 | 0.4 | < 0.05 | 1.24 | 7.3 | 0.78 | < 0.02 | 0.8 | 29.4 | 14.9 |
| 92618 | 11.1 | 2.09 | 0.61 | 3.76 | 1.58 | 1.24 | < 0.1 | 56 | 51.6 | 451 | 3.15 | 4.9 | 24.0 | 1.0 | 1.2 | 0.3 | < 0.05 | 0.54 | 9.4 | 0.57 | < 0.02 | 0.6 | 29.9 | 12.8 |
| 92619 | 13.4 | 2.02 | 0.68 | 5.54 | 1.70 | 1.25 | 0.1 | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92621 | 25.3 | 2.08 | 1.53 | 6.39 | 1.70 | 1.44 | 0.1 | 100 | 123 | 670 | 4.72 | 3.5 | 76.7 | 1.7 | 3.1 | 0.6 | < 0.05 | 1.76 | 19.1 | 1.71 | 0.02 | 0.6 | 67.8 | 16.3 |
| 92622 | 20.3 | 2.40 | 1.51 | 6.72 | 1.75 | 1.11 | < 0.1 | 102 | 89.9 | 471 | 4.93 | 4.0 | 69.6 | 1.4 | 2.4 | 0.5 | < 0.05 | 1.54 | 21.3 | 1.35 | < 0.02 | 0.6 | 67.1 | 15.6 |
| 92623 | 21.3 | 1.80 | 1.05 | 6.66 | 1.86 | 1.15 | 0.2 | 76 | 82.5 | 384 | 3.66 | 1.1 | 32.3 | 1.7 | 1.8 | 0.6 | < 0.05 | 2.49 | 9.3 | 1.71 | 0.05 | 0.5 | 47.5 | 18.6 |
| 92624 | 20.5 | 2.34 | 1.17 | 6.82 | 1.97 | 1.41 | 0.1 | 82 | 73.4 | 643 | 4.46 | 4.9 | 45.7 | 1.7 | 2.0 | 0.6 | < 0.05 | 1.50 | 17.0 | 1.51 | 0.04 | 0.6 | 60.1 | 16.1 |
| 92625 | 31.1 | 1.89 | 1.98 | 5.79 | 1.88 | 2.35 | 0.3 | 99 | 109 | 1680 | 5.40 | 1.0 | 65.1 | 2.7 | 4.5 | 1.1 | < 0.05 | 1.56 | 19.3 | 3.79 | 0.10 | 0.5 | 109 | 13.6 |
| 92626 | 21.6 | 2.13 | 1.45 | 3.75 | 1.63 | 2.06 | 0.2 | 100 | 94.9 | 1290 | 4.68 | 4.3 | 56.0 | 2.0 | 2.5 | 0.8 | < 0.05 | 1.07 | 18.1 | 2.32 | 0.05 | 0.3 | 83.9 | 14.2 |
| 92627 | 26.2 | 1.91 | 2.18 | 4.94 | 0.47 | 1.46 | 0.6 | 275 | 71.5 | 707 | 6.93 | 0.8 | 94.6 | 11.1 | 8.6 | 4.9 | < 0.05 | 1.08 | 31.7 | 17.8 | 0.30 | 1.5 | 178 | 17.2 |
| 92628 | 18.3 | 2.12 | 1.01 | 6.30 | 1.82 | 1.56 | 0.1 | 71 | 76.4 | 994 | 3.95 | 5.1 | 40.4 | 1.5 | 1.5 | 0.6 | < 0.05 | 1.48 | 14.8 | 1.25 | 0.02 | 0.7 | 54.7 | 14.7 |
| 92629 | 25.7 | 2.39 | 1.34 | 6.51 | 1.61 | 1.12 | < 0.1 | 108 | 84.5 | 577 | 5.07 | 3.7 | 62.1 | 1.6 | 2.2 | 0.6 | < 0.05 | 1.61 | 20.2 | 1.81 | 0.04 | 0.7 | 59.1 | 16.6 |
| 92630 | 19.4 | 1.97 | 1.05 | 6.30 | 1.82 | 1.68 | 0.1 | 75 | 54.8 | 607 | 3.64 | 1.1 | 35.0 | 2.1 | 1.6 | 0.8 | < 0.05 | 1.59 | 11.5 | 2.51 | 0.03 | 0.4 | 58.6 | 14.7 |
| 92631 | 17.9 | 2.04 | 1.04 | 6.49 | 1.85 | 1.56 | < 0.1 | 72 | 54.4 | 594 | 3.60 | 0.3 | 32.6 | 1.8 | 1.4 | 0.7 | < 0.05 | 1.50 | 11.0 | 2.14 | 0.04 | 0.7 | 44.6 | 14.6 |
| 92632 | 15.8 | 2.01 | 0.88 | 6.48 | 1.82 | 1.22 | 0.2 | 66 | 57.6 | 371 | 3.46 | 4.9 | 27.9 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.46 | 9.6 | 1.06 | 0.03 | 0.5 | 32.9 | 15.4 |
| 92633 | 14.1 | 1.95 | 0.69 | 6.12 | 1.78 | 1.13 | 0.1 | 55 | 43.8 | 304 | 3.23 | 4.1 | 19.3 | 0.9 | 1.2 | 0.3 | < 0.05 | 1.35 | 6.8 | 0.68 | < 0.02 | 0.9 | 28.8 | 15.1 |
| 92634 | 19.9 | 2.07 | 1.25 | 6.24 | 1.82 | 1.71 | 0.2 | 75 | 56.5 | 1140 | 4.24 | 0.4 | 35.0 | 2.3 | 2.5 | 0.9 | < 0.05 | 1.48 | 14.9 | 2.94 | 0.06 | 0.6 | 67.5 | 14.2 |
| 92635 | 18.5 | 1.60 | 0.95 | 5.21 | 1.43 | 3.31 | 0.1 | 66 | 46.9 | 700 | 4.36 | < 0.1 | 25.3 | 4.0 | 2.6 | 1.8 | < 0.05 | 1.56 | 9.0 | 7.94 | 0.10 | 1.0 | 119 | 12.4 |
| 92636 | 18.7 | 2.06 | 0.98 | 5.42 | 1.76 | 1.23 | < 0.1 | 70 | 70.2 | 593 | 3.77 | 2.6 | 34.3 | 1.3 | 1.7 | 0.5 | < 0.05 | 1.25 | 12.4 | 1.26 | 0.03 | 0.3 | 45.0 | 14.8 |
| 92637 | 16.6 | 1.71 | 0.73 | 5.76 | 1.75 | 0.99 | 0.1 | 61 | 60.4 | 291 | 3.05 | 4.8 | 23.1 | 0.9 | 1.1 | 0.3 | < 0.05 | 1.87 | 7.2 | 0.62 | 0.04 | 0.4 | 33.8 | 15.8 |
| 92638 | 18.2 | 1.68 | 0.90 | 5.31 | 1.47 | 2.27 | 0.3 | 56 | 36.5 | 2100 | 3.53 | < 0.1 | 26.9 | 2.5 | 1.7 | 1.0 | < 0.05 | 1.50 | 10.1 | 3.67 | 0.04 | 0.7 | 103 | 12.0 |
| 92639 | 24.3 | 1.89 | 1.53 | 6.16 | 1.92 | 3.03 | 0.3 | 73 | 39.6 | 1600 | 4.41 | 1.3 | 33.0 | 4.3 | 4.3 | 1.8 | < 0.05 | 1.61 | 14.7 | 8.22 | 0.18 | 0.8 | 105 | 14.2 |
| 92640 | 13.7 | 2.00 | 0.75 | 6.05 | 1.67 | 1.25 | 0.1 | 54 | 46.9 | 575 | 2.97 | 3.0 | 25.8 | 1.1 | 1.2 | 0.4 | < 0.05 | 0.88 | 9.4 | 0.82 | < 0.02 | 0.5 | 29.5 | 13.4 |
| 92641 | 13.8 | 2.19 | 0.72 | 6.28 | 1.83 | 1.35 | < 0.1 | 53 | 41.5 | 431 | 3.13 | 1.1 | 22.0 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.00 | 9.4 | 0.90 | < 0.02 | 0.4 | 29.9 | 14.1 |
| 92642 | 12.8 | 2.19 | 0.69 | 6.43 | 1.84 | 1.35 | < 0.1 | 56 | 50.9 | 390 | 2.69 | 1.4 | 20.5 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.14 | 8.4 | 0.91 | 0.02 | 0.1 | 28.1 | 14.9 |
| 92643 | 15.5 | 2.24 | 0.88 | 6.78 | 1.95 | 1.40 | 0.1 | 61 | 56.3 | 456 | 3.47 | 5.2 | 27.3 | 1.3 | 1.4 | 0.5 | < 0.05 | 1.17 | 10.2 | 1.00 | < 0.02 | 0.5 | 32.8 | 15.5 |
| 92644 | 13.3 | 2.16 | 0.70 | 6.37 | 1.81 | 1.30 | < 0.1 | 53 | 44.2 | 416 | 3.15 | 4.0 | 20.9 | 1.2 | 1.2 | 0.5 | < 0.05 | 0.91 | 8.9 | 0.92 | < 0.02 | < 0.1 | 28.2 | 14.0 |
| 92645 | 15.8 | 2.17 | 0.75 | 6.64 | 1.90 | 1.27 | < 0.1 | 55 | 41.2 | 417 | 3.26 | 4.5 | 22.2 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.13 | 8.9 | 0.85 | < 0.02 | 0.2 | 31.2 | 15.0 |
| 92646 | 18.1 | 1.80 | 1.01 | 5.81 | 1.55 | 4.46 | 0.3 | 147 | 82.9 | 966 | 4.78 | < 0.1 | 29.1 | 7.6 | 15.9 | 3.3 | < 0.05 | 1.50 | 12.7 | 15.1 | 0.07 | 1.0 | 74.9 | 14.2 |
| 92647 | 15.5 | 1.79 | 0.70 | 3.99 | 1.51 | 2.62 | 0.2 | 82 | 63.4 | 389 | 3.21 | 1.5 | 28.7 | 2.7 | 1.4 | 1.1 | < 0.05 | 1.08 | 9.6 | 3.43 | < 0.02 | 0.7 | 38.6 | 13.7 |
| 92648 | 19.7 | 2.26 | 0.99 | 5.85 | 1.98 | 1.68 | 0.1 | 69 | 65.1 | 627 | 3.88 | 5.3 | 32.5 | 1.6 | 1.8 | 0.6 | < 0.05 | 1.27 | 11.8 | 1.50 | < 0.02 | 0.4 | 51.3 | 15.7 |
| 92649 | 17.2 | 2.11 | 0.88 | 6.48 | 1.91 | 1.43 | < 0.1 | 58 | 55.6 | 531 | 3.32 | 5.2 | 27.0 | 1.4 | 1.1 | 0.5 | < 0.05 | 1.42 | 10.2 | 0.99 | < 0.02 | 0.7 | 41.1 | 14.7 |
| 92650 | 9.4 | 2.26 | 0.47 | 6.32 | 1.92 | 1.26 | < 0.1 | 54 | 30.7 | 222 | 1.90 | 4.3 | 11.9 | 1.0 | 1.1 | 0.4 | < 0.05 | 1.24 | 4.0 | 1.34 | 0.04 | 0.3 | 20.8 | 15.2 |
| 92651 | 32.1 | 2.52 | 1.45 | 6.49 | 1.44 | 1.51 | 0.2 | 119 | 112 | 1040 | 5.65 | 2.0 | 63.5 | 2.8 | 8.5 | 1.2 | < 0.05 | 1.26 | 17.5 | 5.52 | 0.09 | 1.0 | 136 | 16.2 |
| 92652 | 36.6 | 2.68 | 1.90 | 6.50 | 1.34 | 1.65 | 0.3 | 167 | 125 | 2920 | 8.33 | 1.3 | 88.9 | 4.0 | 6.4 | 1.7 | < 0.05 | 1.67 | 31.4 | 7.25 | 0.11 | 1.2 | 129 | 16.8 |
| 92653 | 37.2 | 2.49 | 2.09 | 6.32 | 1.12 | 1.99 | 0.3 | 182 | 122 | 1740 | 8.39 | 1.4 | 83.5 | 5.2 | 7.9 | 2.3 | < 0.05 | 1.63 | 25.9 | 10.00 | 0.16 | 1.3 | 131 | 18.1 |
| 92654 | 21.9 | 2.25 | 1.61 | 6.22 | 1.81 | 2.23 | 0.2 | 105 | 105 | 1010 | 5.22 | 1.0 | 70.2 | 2.7 | 3.6 | 1.1 | < 0.05 | 1.25 | 18.6 | 3.81 | 0.07 | 0.9 | 89.2 | 15.0 |
| 92655 | 28.8 | 1.94 | 1.47 | 5.59 | 1.43 | 1.93 | 0.3 | 128 | 102 | 1320 | 5.78 | 0.5 | 105 | 3.5 | 3.6 | 1.5 | < 0.05 | 1.77 | 20.7 | 6.79 | 0.12 | 0.9 | 128 | 15.3 |
| 92656 | 8.0 | 1.88 | 0.44 | 3.99 | 1.51 | 0.90 | 0.2 | 56 | 47.0 | 200 | 2.32 | 4.2 | 19.2 | 0.8 | 2.0 | 0.3 | < 0.05 | 0.93 | 4.9 | 0.96 | < 0.02 | 0.6 | 21.7 | 13.3 |
| 92657 | 18.7 | 2.37 | 0.88 | 6.25 | 1.52 | 1.19 | 0.1 | 84 | 64.2 | 445 | 3.82 | 4.6 | 34.6 | 1.3 | 1.8 | 0.5 | < 0.05 | 0.97 | 14.4 | 1.13 | 0.03 | 0.6 | 55.2 | 14.8 |
| 92658 | 30.5 | 0.81 | 3.34 | 3.46 | 1.41 | 3.94 | 1.2 | 159 | 134 | 8390 | 17.1 | < 0.1 | 61.7 | 10.5 | 5.9 | 5.1 | < 0.05 | 1.28 | 34.7 | 39.8 | 0.29 | 2.3 | 276 | 12.4 |
| 92659 | 19.8 | 2.16 | 1.93 | 6.06 | 1.73 | 3.05 | 0.2 | 113 | 82.4 | 1070 | 5.46 | 1.2 | 58.1 | 2.9 | 3.1 | 1.1 | < 0.05 | 1.47 | 22.2 | 3.63 | 0.09 | 0.6 | 101 | 14.9 |
| 92660 | 17.3 | 2.31 | 0.93 | 6.56 | 1.66 | 1.37 | < 0.1 | 88 | 58.8 | 406 | 4.30 | 0.6 | 36.3 | 1.6 | 2.3 | 0.6 | < 0.05 | 1.22 | 13.8 | 1.70 | 0.04 | 0.4 | 39.5 | 15.5 |
| 92661 | 17.6 | 2.18 | 0.82 | 6.76 | 1.73 | 1.20 | 0.1 | 66 | 57.0 | 364 | 3.77 | 4.6 | 34.0 | 1.1 | 1.4 | 0.4 | < 0.05 | 1.33 | 12.5 | 0.91 | 0.07 | 0.2 | 40.8 | 15.4 |
| 92662 | 22.2 | 1.75 | 1.45 | 5.72 | 1.48 | 2.13 | 0.5 | 100 | 65.1 | 1720 | 6.02 | 0.4 | 70.9 | 3.6 | 2.9 | 1.6 | < 0.05 | 2.48 | 26.2 | 4.56 | 0.06 | 0.7 | 119 | 15.7 |
| 92663 | 15.7 | 2.01 | 0.73 | 6.65 | 1.93 | 1.15 | < 0.1 | 59 | 52.1 | 323 | 3.24 | 4.2 | 24.4 | 1.0 | 1.4 | 0.4 | < 0.05 | 1.51 | 9.1 | 0.83 | < 0.02 | 0.8 | 33.3 | 16.3 |
| 92664 | 17.4 | 2.05 | 0.78 | 6.65 | 1.92 | 1.24 | 0.1 | 58 | 58.0 | 396 | 3.33 | 4.4 | 25.0 | 1.1 | 1.4 | 0.4 | < 0.05 | 1.53 | 9.6 | 0.85 | < 0.02 | 0.3 | 41.8 | 15.4 |
| 92665 | 28.3 | 1.51 | 4.25 | 4.36 | 0.34 | 8.90 | 1.2 | 132 | 47.3 | 3910 | 10.4 | < 0.1 | 41.3 | 11.1 | 6.6 | 5.2 | < 0.05 | 1.85 | 27.8 | 29.5 | 0.23 | 2.7 | 289 | 13.7 |
| 92666 | 21.1 | 1.70 | 0.82 | 4.56 | 1.80 | 0.74 | 0.1 | 68 | 67.5 | 430 | 3.42 | 4.3 | 30.4 | 0.9 | 1.3 | 0.3 | < 0.05 | 2.10 | 10.6 | 0.61 | 0.05 | 0.7 | 53.0 | 16.7 |
| 92667 | 21.4 | 2.05 | 1.05 | 6.59 | 1.92 | 1.68 | < 0.1 | 79 | 76.8 | 610 | 3.89 | 4.4 | 38.7 | 1.9 | 1.8 | 0.7 | < 0.05 | 1.81 | 11.6 | 2.27 | 0.03 | 0.1 | 48.7 | 16.4 |
| 92668 | 16.5 | 2.21 | 0.80 | 6.88 | 1.88 | 1.32 | 0.1 | 58 | 51.2 | 332 | 3.21 | 4.3 | 26.5 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.24 | 9.2 | 0.87 | 0.02 | 0.4 | 36.5 | 15.6 |
| 92669 | 15.9 | 2.22 | 0.86 | 6.83 | 2.03 | 1.35 | < 0.1 | 60 | 49.9 | 409 | 3.24 | 4.6 | 27.8 | 1.3 | 1.2 | 0.5 | < 0.05 | 1.49 | 9.1 | 0.97 | 0.02 | < 0.1 | 35.9 | 16.0 |
| 92670 | 16.5 | 2.11 | 0.91 | 6.46 | 1.76 | 1.51 | < 0.1 | 66 | 48.0 | 418 | 3.30 | 4.7 | 27.1 | 1.4 | 1.2 | 0.5 | < 0.05 | 1.18 | 10.4 | 1.10 | < 0.02 | 0.1 | 40.7 | 15.6 |
| 92671 | 16.5 | 2.33 | 0.89 | 7.03 | 2.05 | 1.51 | < 0.1 | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92126 | 21.2 | 2.93 | 1.46 | 7.00 | 1.35 | 1.27 | < 0.1 | 73 | 85.6 | 859 | 6.24 | 2.8 | 61.3 | 1.8 | 3.4 | 0.7 | < 0.05 | 1.78 | 27.2 | 1.81 | < 0.02 | < 0.1 | 69.6 | 17.7 |
| 92127 | 10.8 | 2.48 | 0.91 | 6.60 | 1.02 | 1.38 | 0.2 | 46 | 83.5 | 512 | 5.30 | 2.7 | 24.6 | 1.3 | 1.3 | 0.5 | < 0.05 | 0.91 | 13.9 | 1.21 | < 0.02 | 0.3 | 50.4 | 17.0 |
| 92128 | 13.4 | 2.39 | 0.95 | 6.41 | 1.43 | 1.32 | < 0.1 | 44 | 72.8 | 548 | 4.31 | 2.6 | 36.6 | 1.5 | 1.6 | 0.6 | < 0.05 | 1.04 | 14.1 | 1.37 | 0.02 | < 0.1 | 39.7 | 14.7 |
| 92129 | 21.9 | 2.71 | 1.33 | 5.69 | 1.60 | 1.02 | 0.1 | 110 | 131 | 734 | 4.99 | 4.4 | 71.9 | 1.4 | 2.3 | 0.5 | < 0.05 | 1.59 | 21.8 | 1.18 | < 0.02 | 0.4 | 62.9 | 18.6 |
| 92130 | 16.7 | 2.26 | 0.95 | 6.02 | 1.66 | 1.30 | 0.2 | 86 | 83.9 | 481 | 3.95 | 5.0 | 32.2 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.81 | 12.0 | 0.77 | 0.03 | 0.6 | 41.6 | 16.9 |
| 92131 | 25.0 | 2.48 | 2.76 | 5.91 | 1.70 | 3.22 | 0.2 | 117 | 90.3 | 1260 | 6.57 | 2.6 | 66.7 | 3.0 | 3.0 | 1.1 | < 0.05 | 1.39 | 30.5 | 3.06 | 0.03 | 0.2 | 99.5 | 16.9 |
| 92132 | 13.6 | 0.57 | 0.82 | 3.39 | 0.93 | 2.56 | 0.1 | 45 | 45.5 | 704 | 2.38 | < 0.1 | 27.3 | 1.0 | 1.1 | 0.4 | < 0.05 | 1.97 | 9.3 | 0.78 | 0.04 | 0.7 | 28.7 | 9.4 |
| 92133 | 26.7 | 2.34 | 1.41 | 6.59 | 1.48 | 1.11 | 0.1 | 113 | 99.6 | 877 | 7.22 | 4.7 | 58.6 | 1.6 | 2.1 | 0.6 | < 0.05 | 1.83 | 29.1 | 1.11 | 0.04 | 0.5 | 63.8 | 17.3 |
| 92134 | 13.7 | 2.39 | 0.82 | 6.47 | 1.58 | 1.41 | 0.1 | 84 | 79.6 | 455 | 5.37 | 7.0 | 27.5 | 1.6 | 1.3 | 0.6 | < 0.05 | 0.93 | 10.6 | 1.04 | 0.03 | 0.4 | 35.4 | 14.8 |
| 92135 | 18.3 | 2.41 | 1.10 | 6.54 | 1.66 | 1.20 | < 0.1 | 70 | 68.0 | 617 | 4.25 | 3.5 | 42.9 | 1.4 | 1.6 | 0.5 | < 0.05 | 1.40 | 16.2 | 1.22 | < 0.02 | 0.3 | 45.6 | 15.5 |
| 92136 | 22.1 | 2.69 | 1.64 | 6.49 | 1.30 | 1.21 | 0.1 | 74 | 98.8 | 956 | 5.57 | 2.8 | 69.9 | 1.8 | 2.5 | 0.7 | < 0.05 | 1.78 | 25.8 | 1.68 | < 0.02 | 0.4 | 76.6 | 16.7 |
| 92137 | 23.9 | 2.74 | 2.26 | 6.51 | 1.18 | 1.47 | 0.1 | 100 | 165 | 1020 | 6.10 | 2.3 | 96.8 | 1.9 | 3.1 | 0.7 | < 0.05 | 1.84 | 35.9 | 1.66 | < 0.02 | 0.4 | 116 | 17.8 |
| 92138 | 60.4 | 1.24 | 2.41 | 4.59 | 1.11 | 4.20 | 0.4 | 157 | 96.5 | 1990 | 8.54 | 3.0 | 92.9 | 4.7 | 7.6 | 1.9 | < 0.05 | 2.50 | 31.0 | 5.61 | 0.41 | 0.7 | 192 | 14.1 |
| 92139 | 27.5 | 2.13 | 3.05 | 5.80 | 0.94 | 1.89 | 0.2 | 120 | 183 | 1470 | 6.67 | 2.6 | 116 | 2.1 | 3.4 | 0.8 | < 0.05 | 1.59 | 36.5 | 2.35 | 0.04 | 0.4 | 125 | 16.7 |
| 92140 | 33.5 | 2.15 | 0.88 | 6.23 | 1.30 | 1.18 | 0.4 | 146 | 74.3 | 597 | 7.79 | 1.8 | 51.0 | 3.4 | 5.4 | 1.3 | < 0.05 | 1.57 | 16.7 | 3.41 | 0.13 | 0.5 | 82.6 | 20.5 |
| 92141 | 24.3 | 2.91 | 1.65 | 6.37 | 0.77 | 1.69 | 0.3 | 129 | 118 | 1230 | 6.81 | 1.9 | 88.1 | 2.4 | 2.5 | 1.0 | < 0.05 | 1.19 | 33.8 | 2.46 | 0.07 | 0.5 | 90.6 | 17.2 |
| 92142 | 24.8 | > 3.00 | 1.75 | 6.90 | 0.87 | 1.03 | < 0.1 | 93 | 124 | 797 | 6.66 | 2.3 | 85.6 | 1.7 | 3.4 | 0.7 | < 0.05 | 1.25 | 29.5 | 1.69 | 0.05 | 0.3 | 76.1 | 17.5 |
| 92143 | 18.4 | 2.69 | 1.82 | 5.43 | 0.65 | 2.16 | 0.2 | 118 | 152 | 4260 | 6.82 | 0.9 | 98.6 | 2.7 | 1.8 | 1.0 | < 0.05 | 0.90 | 31.7 | 2.99 | 0.04 | 0.7 | 128 | 14.1 |
| 92144 | 15.4 | > 3.00 | 2.08 | 6.89 | 0.73 | 1.39 | 0.1 | 80 | 133 | 1630 | 8.14 | 1.6 | 94.7 | 2.3 | 2.5 | 0.9 | < 0.05 | 0.86 | 36.7 | 2.19 | < 0.02 | 0.5 | 78.2 | 17.1 |
| 92145 | 18.8 | > 3.00 | 2.26 | 7.26 | 0.52 | 1.66 | 0.1 | 81 | 238 | 1850 | 9.37 | 1.7 | 194 | 2.7 | 2.1 | 1.0 | < 0.05 | 0.80 | 55.4 | 2.51 | < 0.02 | 0.7 | 97.5 | 18.4 |
| 92146 | 11.6 | 1.62 | 3.01 | 6.81 | 0.23 | 6.42 | 0.3 | 77 | 548 | 732 | 5.22 | 0.7 | 237 | 2.5 | 1.6 | 0.9 | < 0.05 | 0.35 | 34.7 | 1.61 | < 0.02 | 0.8 | 58.5 | 19.4 |
| 92147 | 23.8 | > 3.00 | 2.28 | 7.24 | 0.50 | 1.49 | < 0.1 | 92 | 170 | 1040 | 9.01 | 2.1 | 102 | 2.2 | 2.5 | 0.8 | < 0.05 | 0.99 | 48.8 | 2.05 | < 0.02 | 0.6 | 84.5 | 19.9 |
| 92148 | 16.4 | > 3.00 | 2.02 | 4.70 | 0.75 | 1.07 | 0.1 | 206 | 163 | 1260 | 7.38 | 4.0 | 112 | 1.6 | 2.9 | 0.6 | < 0.05 | 0.64 | 41.6 | 1.36 | < 0.02 | 0.2 | 75.1 | 18.6 |
| 92149 | 19.5 | 2.89 | 2.05 | 6.12 | 0.89 | 1.35 | 0.1 | 171 | 146 | 795 | 6.67 | 3.4 | 94.2 | 1.8 | 2.5 | 0.7 | < 0.05 | 1.23 | 33.3 | 1.61 | < 0.02 | 0.1 | 79.5 | 17.7 |
| 92150 | 34.4 | 1.20 | 2.40 | 4.22 | 0.64 | 2.88 | 0.3 | 175 | 111 | 4890 | 8.21 | < 0.1 | 122 | 4.3 | 3.9 | 1.8 | < 0.05 | 2.18 | 40.6 | 6.00 | 0.13 | 1.1 | 199 | 14.4 |
| 92151 | 18.0 | 2.27 | 1.10 | 5.18 | 1.32 | 0.42 | 0.1 | 237 | 182 | 520 | 15.7 | 4.0 | 60.8 | 1.4 | 4.2 | 0.5 | < 0.05 | 1.58 | 20.9 | 0.97 | 0.55 | 4.3 | 82.1 | 16.5 |
| 92152 | 22.0 | > 3.00 | 2.24 | 7.32 | 0.90 | 1.13 | < 0.1 | 113 | 149 | 1030 | 7.55 | 2.2 | 107 | 2.2 | 2.8 | 0.8 | < 0.05 | 1.32 | 38.2 | 2.31 | < 0.02 | 0.3 | 93.9 | 19.2 |
| 92153 | 21.0 | > 3.00 | 1.81 | 7.40 | 0.93 | 0.88 | 0.1 | 49 | 123 | 500 | 6.89 | 1.9 | 78.2 | 1.3 | 2.4 | 0.5 | < 0.05 | 1.34 | 26.4 | 1.10 | < 0.02 | 0.1 | 74.5 | 19.3 |
| 92154 | 18.3 | > 3.00 | 2.30 | 7.11 | 0.78 | 1.13 | 0.1 | 88 | 124 | 1220 | 8.14 | 2.4 | 99.3 | 2.4 | 2.9 | 0.9 | < 0.05 | 1.02 | 41.1 | 2.43 | < 0.02 | 0.2 | 94.0 | 19.5 |
| 92155 | 13.9 | > 3.00 | 2.73 | 6.53 | 0.37 | 2.19 | < 0.1 | 121 | 197 | 1490 | 9.94 | 1.3 | 96.3 | 1.9 | 1.7 | 0.7 | < 0.05 | 0.55 | 39.5 | 1.76 | < 0.02 | 0.3 | 76.9 | 16.6 |
| 92156 | 10.3 | 1.98 | 2.38 | 4.45 | 0.15 | 3.19 | 0.4 | 99 | 105 | 2560 | 7.04 | 0.7 | 95.4 | 1.7 | 1.3 | 0.7 | < 0.05 | 0.41 | 39.3 | 2.06 | < 0.02 | 1.4 | 102 | 12.5 |
| 92157 | 27.3 | 1.27 | 3.69 | 4.76 | 0.56 | 4.75 | 0.4 | 276 | 7.7 | 2040 | 11.3 | 0.1 | 48.0 | 5.5 | 3.1 | 2.5 | < 0.05 | 1.00 | 48.2 | 12.7 | 0.06 | 0.5 | 154 | 19.3 |
| 92158 | 18.0 | > 3.00 | 2.10 | 4.50 | 0.72 | 1.24 | 0.1 | 173 | 141 | 937 | 5.98 | 3.6 | 90.4 | 1.2 | 2.3 | 0.4 | < 0.05 | 0.68 | 34.9 | 0.90 | < 0.02 | 0.4 | 87.5 | 17.1 |
| 92159 | 18.1 | > 3.00 | 2.15 | 6.39 | 0.91 | 1.10 | < 0.1 | 151 | 147 | 989 | 7.19 | 3.4 | 96.2 | 1.9 | 2.5 | 0.7 | < 0.05 | 0.96 | 35.9 | 1.74 | < 0.02 | 0.2 | 76.0 | 18.2 |
| 92160 | 13.8 | > 3.00 | 1.32 | 6.99 | 0.48 | 0.78 | 0.1 | 85 | 125 | 823 | 7.68 | 2.9 | 72.3 | 1.7 | 2.0 | 0.6 | < 0.05 | 0.76 | 30.2 | 1.62 | < 0.02 | < 0.1 | 58.7 | 19.2 |
| 92161 | 18.8 | > 3.00 | 1.84 | 7.12 | 1.08 | 1.27 | < 0.1 | 128 | 118 | 638 | 6.38 | 2.4 | 85.3 | 1.9 | 2.3 | 0.7 | < 0.05 | 1.13 | 27.4 | 1.82 | < 0.02 | 0.2 | 77.0 | 18.2 |
| 92162 | 18.1 | > 3.00 | 2.00 | 6.88 | 1.06 | 1.37 | < 0.1 | 122 | 110 | 841 | 6.39 | 2.2 | 89.5 | 2.2 | 2.6 | 0.8 | < 0.05 | 1.08 | 32.1 | 2.16 | < 0.02 | < 0.1 | 74.1 | 17.7 |
| 92163 | 17.1 | > 3.00 | 2.77 | 6.89 | 0.47 | 1.21 | < 0.1 | 182 | 101 | 913 | 7.21 | 3.7 | 76.9 | 2.4 | 2.7 | 0.9 | < 0.05 | 1.02 | 43.0 | 2.36 | < 0.02 | 0.5 | 90.3 | 19.1 |
| 92164 | 20.3 | > 3.00 | 1.80 | 7.00 | 1.14 | 1.12 | < 0.1 | 81 | 102 | 854 | 6.17 | 2.5 | 74.3 | 2.0 | 2.2 | 0.8 | < 0.05 | 1.33 | 28.7 | 2.01 | < 0.02 | 0.4 | 75.3 | 18.1 |
| 92165 | 22.1 | > 3.00 | 1.82 | 7.24 | 1.10 | 0.97 | 0.1 | 81 | 101 | 1460 | 6.63 | 2.1 | 81.7 | 1.7 | 2.2 | 0.7 | < 0.05 | 1.77 | 35.4 | 1.67 | 0.03 | 0.3 | 100 | 19.2 |
| 92166 | 17.9 | > 3.00 | 1.35 | 7.28 | 1.18 | 1.15 | < 0.1 | 98 | 92.6 | 602 | 6.21 | 3.1 | 52.5 | 1.5 | 1.6 | 0.6 | < 0.05 | 2.17 | 22.6 | 1.37 | 0.02 | 0.5 | 60.9 | 19.8 |
| 92167 | 43.2 | > 3.00 | 3.56 | > 10.0 | 2.80 | 2.13 | 0.2 | 215 | 199 | 2200 | 13.0 | 5.7 | 169 | 4.2 | 4.9 | 1.6 | < 0.05 | 3.81 | 66.0 | 3.94 | 0.09 | 0.7 | 164 | 38.4 |
| 92168 | 14.8 | 1.93 | 0.91 | 3.69 | 1.18 | 1.42 | 0.1 | 105 | 71.1 | 461 | 4.11 | 4.7 | 33.2 | 1.3 | 2.4 | 0.5 | < 0.05 | 1.40 | 13.9 | 1.70 | 0.02 | 0.6 | 41.7 | 14.6 |
| 92169 | 13.9 | 2.19 | 0.85 | 5.93 | 1.50 | 1.25 | < 0.1 | 71 | 77.3 | 407 | 3.77 | 5.9 | 28.6 | 1.5 | 1.3 | 0.5 | < 0.05 | 1.13 | 9.4 | 1.11 | 0.04 | < 0.1 | 35.9 | 14.7 |
| 92170 | 28.0 | 2.51 | 1.79 | 6.39 | 1.62 | 1.55 | 0.1 | 85 | 91.8 | 1020 | 6.12 | 3.4 | 70.7 | 1.9 | 2.1 | 0.7 | < 0.05 | 1.55 | 24.7 | 1.80 | < 0.02 | 0.3 | 68.6 | 16.5 |
| 92171 | 11.4 | > 3.00 | 0.56 | 7.11 | 0.62 | 0.63 | < 0.1 | 47 | 55.9 | 375 | 5.24 | 2.6 | 46.5 | 1.9 | 1.2 | 0.7 | < 0.05 | 0.60 | 16.5 | 1.70 | < 0.02 | 0.4 | 34.9 | 16.7 |
| 92172 | 16.4 | 2.08 | 1.11 | 6.18 | 1.25 | 1.04 | 0.1 | 90 | 76.8 | 454 | 6.21 | 3.7 | 35.5 | 1.3 | 1.4 | 0.4 | < 0.05 | 1.71 | 13.1 | 1.12 | 0.07 | 0.3 | 51.1 | 20.7 |
| 92173 | 20.1 | 2.12 | 1.00 | 6.57 | 1.89 | 1.21 | < 0.1 | 59 | 76.8 | 385 | 3.49 | 3.0 | 37.3 | 1.3 | 2.9 | 0.5 | 0.13 | 1.65 | 11.0 | 1.09 | 0.03 | 1.1 | 43.1 | 16.4 |
| 92174 | 20.4 | 2.32 | 1.02 | 6.94 | 1.98 | 1.21 | < 0.1 | 44 | 67.2 | 544 | 3.89 | 2.9 | 35.7 | 1.3 | 1.4 | 0.5 | < 0.05 | 1.97 | 12.1 | 1.03 | 0.04 | 0.8 | 46.7 | 18.1 |
| 92175 | 21.3 | > 3.00 | 1.40 | 7.27 | 0.94 | 0.93 | < 0.1 | 82 | 88.3 | 985 | 7.12 | 2.1 | 73.5 | 1.9 | 5.0 | 0.7 | < 0.05 | 1.92 | 34.1 | 2.09 | < 0.0 | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92178 | 34.6 | > 3.00 | 1.90 | 5.37 | 0.88 | 0.40 | 0.1 | 132 | 393 | 835 | 8.02 | 3.1 | 169 | 1.4 | 4.7 | 0.5 | < 0.05 | 2.91 | 43.5 | 1.38 | < 0.02 | 0.7 | 88.5 | 17.7 |
| 92179 | 29.0 | > 3.00 | 2.49 | 6.91 | 0.75 | 0.49 | < 0.1 | 157 | 412 | 516 | 9.48 | 3.8 | 164 | 1.6 | 4.2 | 0.6 | < 0.05 | 2.52 | 45.1 | 2.36 | 0.02 | 0.6 | 98.1 | 21.0 |
| 92180 | 21.9 | > 3.00 | 2.02 | 6.92 | 0.97 | 0.51 | 0.1 | 103 | 286 | 1230 | 8.84 | 3.3 | 178 | 1.2 | 5.8 | 0.5 | < 0.05 | 2.80 | 47.4 | 2.10 | 0.04 | 0.6 | 123 | 21.8 |
| 92181 | 13.8 | > 3.00 | 0.91 | 6.78 | 1.21 | 0.94 | < 0.1 | 65 | 102 | 528 | 5.82 | 3.4 | 45.4 | 1.2 | 2.6 | 0.4 | < 0.05 | 1.52 | 16.7 | 1.50 | 0.02 | 0.1 | 54.4 | 17.6 |
| 92182 | 9.9 | > 3.00 | 1.03 | 7.07 | 0.88 | 0.41 | < 0.1 | 70 | 81.8 | 372 | 6.75 | 3.5 | 56.3 | 0.9 | 4.7 | 0.3 | < 0.05 | 2.40 | 19.2 | 1.41 | < 0.02 | 0.2 | 62.0 | 23.0 |
| 92183 | 23.2 | > 3.00 | 1.64 | 7.28 | 1.25 | 1.00 | 0.1 | 92 | 149 | 975 | 7.01 | 2.6 | 94.8 | 1.8 | 5.0 | 0.7 | < 0.05 | 2.11 | 34.0 | 2.16 | < 0.02 | 0.6 | 77.0 | 19.3 |
| 92184 | 44.6 | > 3.00 | 2.65 | > 10.0 | 3.27 | 2.35 | 0.2 | 148 | 177 | 1330 | 10.1 | 6.6 | 110 | 2.7 | 6.4 | 1.0 | < 0.05 | 4.23 | 37.5 | 2.36 | 0.11 | 1.3 | 124 | 33.7 |
| 92185 | 23.1 | 2.01 | 1.16 | 6.49 | 1.69 | 1.06 | 0.1 | 78 | 82.8 | 467 | 4.74 | 3.8 | 47.0 | 1.2 | 2.5 | 0.4 | < 0.05 | 2.23 | 15.0 | 0.92 | 0.04 | 0.6 | 60.6 | 17.2 |
| 92186 | 14.4 | 2.11 | 2.03 | 4.57 | 0.34 | 2.82 | 0.1 | 254 | 120 | 1460 | 9.49 | 1.4 | 188 | 1.7 | 1.7 | 0.6 | < 0.05 | 0.59 | 76.6 | 1.03 | < 0.02 | 0.6 | 87.5 | 18.8 |
| 92187 | 19.2 | 2.92 | 1.13 | 5.24 | 1.08 | 0.89 | 0.1 | 112 | 77.3 | 650 | 5.41 | 3.8 | 54.7 | 1.4 | 2.5 | 0.5 | < 0.05 | 1.62 | 24.8 | 1.20 | < 0.02 | 0.5 | 59.4 | 16.8 |
| 92188 | 22.5 | 2.70 | 1.07 | 6.45 | 1.16 | 0.82 | < 0.1 | 106 | 79.3 | 434 | 5.53 | 4.3 | 49.9 | 1.4 | 4.1 | 0.5 | < 0.05 | 1.71 | 19.8 | 1.44 | 0.04 | 0.6 | 42.2 | 16.6 |
| 92189 | 16.2 | 2.47 | 1.05 | 6.15 | 1.36 | 1.20 | < 0.1 | 92 | 80.9 | 532 | 4.98 | 3.8 | 45.9 | 1.5 | 2.4 | 0.6 | < 0.05 | 1.33 | 17.8 | 1.33 | < 0.02 | 0.3 | 44.3 | 16.1 |
| 92190 | 17.0 | 1.99 | 0.82 | 6.35 | 1.65 | 1.18 | 0.1 | 64 | 57.4 | 361 | 3.64 | 4.7 | 29.3 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.37 | 10.8 | 0.88 | 0.02 | 0.5 | 33.6 | 15.2 |
| 92191 | 21.4 | 2.63 | 1.06 | 6.40 | 1.23 | 1.05 | < 0.1 | 69 | 88.7 | 542 | 5.68 | 3.6 | 44.1 | 1.3 | 3.5 | 0.4 | < 0.05 | 1.28 | 16.9 | 1.31 | 0.03 | 0.6 | 51.8 | 16.6 |
| 92192 | 10.6 | 2.47 | 0.79 | 6.02 | 1.36 | 1.15 | < 0.1 | 106 | 93.6 | 591 | 7.34 | 3.5 | 31.5 | 1.7 | 1.6 | 0.6 | < 0.05 | 0.86 | 13.7 | 1.32 | < 0.02 | < 0.1 | 37.6 | 15.2 |
| 92193 | 17.7 | > 3.00 | 1.49 | 6.97 | 0.88 | 0.61 | < 0.1 | 127 | 110 | 580 | 8.61 | 4.4 | 71.6 | 1.5 | 1.7 | 0.6 | < 0.05 | 1.26 | 27.8 | 1.59 | < 0.02 | 0.7 | 72.0 | 18.1 |
| 92194 | 20.0 | > 3.00 | 1.67 | 7.13 | 0.83 | 0.79 | < 0.1 | 75 | 115 | 980 | 7.55 | 2.2 | 88.1 | 1.7 | 3.0 | 0.7 | < 0.05 | 1.21 | 34.2 | 1.90 | < 0.02 | 0.3 | 74.1 | 18.3 |
| 92195 | 20.1 | 2.96 | 1.43 | 6.97 | 1.38 | 1.00 | 0.1 | 100 | 98.7 | 764 | 5.88 | 3.1 | 67.8 | 1.7 | 2.3 | 0.6 | < 0.05 | 1.47 | 25.2 | 1.60 | < 0.02 | 0.7 | 58.7 | 17.4 |
| 92196 | 17.0 | 2.56 | 1.08 | 6.57 | 1.71 | 1.15 | < 0.1 | 65 | 63.9 | 589 | 3.92 | 3.9 | 43.2 | 1.3 | 1.7 | 0.5 | < 0.05 | 1.33 | 15.5 | 1.11 | 0.02 | 0.5 | 41.5 | 16.4 |
| 92197 | 13.0 | > 3.00 | 0.88 | 4.18 | 0.38 | 0.42 | 0.1 | 193 | 97.7 | 595 | 6.49 | 3.5 | 56.0 | 0.6 | 1.6 | 0.2 | < 0.05 | 0.42 | 25.2 | 0.35 | < 0.02 | < 0.1 | 55.1 | 16.5 |
| 92198 | 18.1 | > 3.00 | 1.53 | 6.13 | 0.83 | 0.90 | < 0.1 | 142 | 122 | 743 | 6.36 | 3.9 | 72.3 | 1.5 | 2.5 | 0.6 | < 0.05 | 0.95 | 29.7 | 1.40 | < 0.02 | 0.3 | 69.1 | 18.5 |
| 92199 | 17.8 | > 3.00 | 1.61 | 6.72 | 0.75 | 0.84 | < 0.1 | 100 | 116 | 705 | 6.15 | 2.9 | 74.5 | 1.4 | 2.6 | 0.5 | < 0.05 | 0.98 | 29.8 | 1.57 | < 0.02 | 0.7 | 62.4 | 18.4 |
| 92200 | 17.6 | > 3.00 | 1.96 | 6.97 | 0.69 | 1.00 | < 0.1 | 85 | 115 | 746 | 7.80 | 2.6 | 89.7 | 2.3 | 3.0 | 0.9 | < 0.05 | 1.01 | 35.3 | 2.15 | < 0.02 | < 0.1 | 82.7 | 18.2 |
| 92201 | 15.0 | > 3.00 | 2.33 | 7.45 | 0.53 | 1.04 | 0.1 | 110 | 123 | 1250 | 8.16 | 2.8 | 99.9 | 2.1 | 2.4 | 0.8 | < 0.05 | 0.69 | 45.1 | 1.92 | < 0.02 | < 0.1 | 96.3 | 20.0 |
| 92202 | 18.4 | > 3.00 | 2.26 | 7.03 | 0.85 | 1.10 | < 0.1 | 94 | 106 | 1100 | 7.15 | 2.5 | 97.1 | 2.1 | 2.9 | 0.8 | < 0.05 | 1.01 | 38.0 | 2.23 | < 0.02 | 0.4 | 95.7 | 18.7 |
| 92203 | 20.1 | > 3.00 | 2.31 | 7.15 | 0.98 | 1.23 | < 0.1 | 80 | 127 | 771 | 6.62 | 2.5 | 105 | 2.1 | 2.6 | 0.8 | < 0.05 | 1.15 | 34.9 | 2.05 | < 0.02 | 0.6 | 84.4 | 19.1 |
| 92376 | 29.6 | > 3.00 | 1.82 | 7.10 | 0.95 | 1.03 | 0.2 | 108 | 226 | 1240 | 7.94 | 3.2 | 168 | 2.9 | 6.4 | 1.2 | < 0.05 | 2.37 | 39.8 | 3.73 | 0.13 | 1.1 | 102 | 20.1 |
| 92377 | 21.5 | 2.93 | 1.29 | 6.58 | 1.20 | 1.11 | 0.2 | 66 | 139 | 702 | 5.09 | 3.0 | 99.1 | 2.1 | 4.4 | 0.8 | < 0.05 | 1.32 | 23.5 | 2.48 | < 0.02 | 0.4 | 60.7 | 16.3 |
| 92378 | 36.7 | 1.65 | 2.48 | 3.63 | 0.96 | 3.69 | 0.6 | 235 | 230 | 4080 | 9.36 | 4.0 | 195 | 4.9 | 8.6 | 2.0 | < 0.05 | 1.58 | 44.3 | 6.30 | 0.26 | 1.2 | 247 | 17.4 |
| 92379 | 53.4 | 1.90 | 2.41 | 6.19 | 1.64 | 2.03 | 0.3 | 210 | 237 | 2050 | 9.01 | 3.8 | 163 | 7.3 | 12.2 | 3.1 | < 0.05 | 2.07 | 35.6 | 12.0 | 0.67 | 1.3 | 222 | 19.7 |
| 92380 | 36.2 | 1.97 | 2.73 | 5.91 | 1.75 | 4.22 | 0.3 | 165 | 185 | 1470 | 7.01 | 4.0 | 135 | 4.5 | 6.0 | 1.8 | < 0.05 | 1.92 | 35.1 | 6.33 | 0.22 | 1.1 | 218 | 17.5 |
| 92381 | 43.2 | 2.39 | 2.34 | 6.45 | 1.09 | 1.30 | 0.2 | 194 | 252 | 1400 | 7.80 | 3.9 | 168 | 3.4 | 8.3 | 1.4 | < 0.05 | 2.27 | 39.2 | 5.21 | 0.09 | 1.0 | 121 | 18.1 |
| 92382 | 33.9 | 2.28 | 2.21 | 6.66 | 1.47 | 1.82 | 0.3 | 164 | 241 | 1680 | 7.39 | 4.2 | 141 | 3.9 | 6.0 | 1.6 | < 0.05 | 1.79 | 35.9 | 5.48 | 0.08 | 1.0 | 140 | 19.2 |
| 92383 | 22.4 | 2.33 | 1.67 | 5.96 | 1.20 | 1.76 | 0.2 | 134 | 190 | 1400 | 5.84 | 3.6 | 119 | 2.5 | 4.2 | 1.0 | < 0.05 | 1.60 | 31.3 | 3.48 | 0.06 | 0.9 | 97.7 | 16.1 |
| 92384 | 33.5 | 1.73 | 2.46 | 5.89 | 1.29 | 3.01 | 0.4 | 176 | 220 | 2040 | 7.67 | 3.5 | 135 | 3.9 | 6.1 | 1.5 | < 0.05 | 1.98 | 40.6 | 5.46 | 0.14 | 1.0 | 155 | 17.1 |
| 92385 | 30.7 | 2.30 | 2.60 | 6.50 | 1.50 | 2.13 | 0.3 | 168 | 177 | 2060 | 8.41 | 3.9 | 138 | 4.1 | 8.2 | 1.6 | < 0.05 | 1.67 | 46.9 | 5.12 | 0.17 | 0.4 | 163 | 19.1 |
| 92386 | 27.5 | 2.60 | 2.28 | 6.63 | 1.22 | 1.11 | 0.2 | 102 | 195 | 1490 | 8.02 | 2.8 | 138 | 3.1 | 4.4 | 1.2 | < 0.05 | 1.62 | 43.4 | 4.09 | 0.06 | 0.9 | 120 | 20.2 |
| 92387 | 17.2 | 2.29 | 1.51 | 4.09 | 0.99 | 0.91 | 0.1 | 194 | 174 | 774 | 7.85 | 4.4 | 83.2 | 1.2 | 3.5 | 0.4 | < 0.05 | 1.06 | 31.9 | 1.03 | 0.05 | 0.3 | 72.9 | 19.3 |
| 92388 | 35.9 | 1.97 | 1.89 | 5.71 | 1.01 | 1.73 | 0.3 | 180 | 203 | 1680 | 8.35 | 3.6 | 117 | 4.1 | 5.8 | 1.6 | < 0.05 | 1.83 | 42.0 | 4.93 | 0.10 | 1.0 | 152 | 18.0 |
| 92389 | 40.7 | 1.08 | 2.07 | 5.09 | 1.57 | 1.96 | 0.3 | 194 | 162 | 2420 | 9.79 | 2.4 | 163 | 5.3 | 7.6 | 2.1 | < 0.05 | 3.39 | 45.3 | 6.41 | 0.13 | 0.9 | 151 | 19.4 |
| 92390 | 45.9 | 1.68 | 1.50 | 5.71 | 1.05 | 2.39 | 0.3 | 202 | 149 | 1500 | 8.70 | 1.4 | 81.0 | 5.2 | 6.9 | 2.1 | < 0.05 | 1.51 | 34.2 | 6.46 | 0.17 | 0.9 | 113 | 16.7 |
| 92391 | 36.2 | 2.27 | 1.38 | 6.94 | 0.63 | 1.77 | 0.2 | 122 | 90.6 | 820 | 7.04 | 1.7 | 69.1 | 2.8 | 5.0 | 1.1 | < 0.05 | 0.95 | 40.1 | 2.65 | 0.04 | 0.4 | 84.6 | 15.7 |
| 92392 | 32.6 | 2.02 | 2.31 | 7.11 | 1.19 | 4.14 | 0.3 | 197 | 98.6 | 1540 | 7.99 | 1.8 | 90.4 | 4.4 | 5.2 | 1.7 | < 0.05 | 1.35 | 43.6 | 4.98 | 0.06 | 1.1 | 117 | 18.0 |
| 92393 | 34.5 | 2.40 | 1.79 | 6.50 | 1.02 | 1.93 | 0.1 | 106 | 99.2 | 1230 | 7.00 | 2.2 | 67.5 | 2.5 | 4.4 | 1.0 | < 0.05 | 1.24 | 34.5 | 2.44 | 0.11 | 0.4 | 94.3 | 17.6 |
| 92394 | 32.7 | 2.28 | 2.34 | 7.48 | 0.75 | 2.75 | 0.2 | 83 | 56.9 | 1300 | 8.04 | 1.5 | 63.9 | 2.4 | 1.8 | 0.9 | < 0.05 | 0.86 | 41.4 | 2.41 | < 0.02 | 0.3 | 85.5 | 16.8 |
| 92395 | 28.9 | 2.35 | 2.35 | 7.29 | 1.20 | 3.10 | 0.3 | 87 | 81.0 | 1400 | 7.28 | 1.8 | 86.5 | 3.0 | 3.2 | 1.1 | < 0.05 | 1.04 | 41.0 | 2.97 | < 0.02 | 0.8 | 110 | 17.6 |
| 92396 | 53.8 | 1.57 | 1.27 | 9.21 | 1.67 | 4.28 | < 0.1 | 29 | 19.3 | 697 | 4.41 | 0.1 | 27.3 | 1.1 | 1.3 | 0.4 | < 0.05 | 0.36 | 19.5 | 1.12 | < 0.02 | 0.6 | 38.2 | 17.4 |
| 92397 | 28.2 | 2.37 | 0.89 | 4.20 | 0.63 | 2.13 | 0.3 | 103 | 62.4 | 883 | 6.24 | 2.4 | 37.1 | 2.5 | 4.7 | 0.8 | < 0.05 | 0.46 | 21.6 | 1.24 | 0.07 | 0.4 | 83.0 | 18.4 |
| 92398 | 29.3 | 1.91 | 2.18 | 6.40 | 1.22 | 2.81 | 0.2 | 146 | 85.9 | 1190 | 7.60 | 2.2 | 61.3 | 3.0 | 3.3 | 1.1 | < 0.05 | 0.81 | 33.4 | 2.45 | 0.03 | 0.5 | 111 | 17.5 |
| 92399 | 32.3 | 1.98 | 1.85 | 7.37 | 1.05 | 1.87 | 0.2 | 115 | 107 | 1070 | 7.67 | 2.0 | 53.3 | 2.8 | 2.9 | 1.0 | < 0.05 | 0.87 | 31.4 | 2.00 | < 0.02 | 0.8 | 73.2 | 19.0 |
| 924 | | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92402 | 83.9 | 2.11 | 2.02 | 7.13 | 0.93 | 1.30 | 0.2 | 140 | 103 | 1100 | 12.3 | 1.7 | 46.9 | 4.0 | 8.8 | 1.4 | < 0.05 | 4.32 | 56.3 | 2.72 | 0.24 | 0.9 | 122 | 20.6 |
| 92403 | 17.1 | 2.07 | 0.86 | 6.33 | 0.90 | 1.83 | 0.3 | 73 | 55.3 | 573 | 4.68 | 2.3 | 29.2 | 2.3 | 3.5 | 0.8 | < 0.05 | 0.64 | 15.7 | 1.91 | 0.04 | 0.6 | 31.8 | 18.2 |
| 92404 | 22.6 | 2.88 | 1.51 | 6.84 | 1.33 | 1.38 | < 0.1 | 122 | 141 | 671 | 5.50 | 3.6 | 84.7 | 2.0 | 3.5 | 0.8 | < 0.05 | 1.24 | 23.4 | 2.25 | < 0.02 | 0.6 | 70.1 | 17.4 |
| 92405 | 25.4 | 1.88 | 1.95 | 6.28 | 0.84 | 2.94 | 0.1 | 79 | 92.1 | 961 | 5.83 | 1.4 | 72.9 | 2.1 | 2.0 | 0.8 | < 0.05 | 1.20 | 30.1 | 1.95 | < 0.02 | 0.6 | 72.5 | 15.6 |
| 92406 | 28.1 | 2.77 | 1.61 | 3.29 | 0.87 | 1.46 | 0.2 | 149 | 118 | 1040 | 5.63 | 2.6 | 69.0 | 1.0 | 2.2 | 0.3 | < 0.05 | 0.87 | 32.8 | 0.63 | 0.05 | 1.1 | 73.0 | 18.2 |
| 92407 | 32.5 | > 3.00 | 1.77 | 6.30 | 0.79 | 2.05 | 0.2 | 99 | 105 | 770 | 6.85 | 2.6 | 54.5 | 2.6 | 4.8 | 1.0 | 0.12 | 1.22 | 30.3 | 2.31 | 0.09 | 1.2 | 84.7 | 20.3 |
| 92408 | 36.8 | 2.91 | 2.15 | 8.55 | 0.73 | 2.18 | 0.2 | 83 | 86.1 | 876 | 7.79 | 1.8 | 62.4 | 2.4 | 3.9 | 0.9 | 0.14 | 0.98 | 37.7 | 2.11 | 0.04 | 0.9 | 74.2 | 19.6 |
| 92409 | 26.9 | > 3.00 | 1.71 | 8.71 | 0.97 | 2.02 | 0.2 | 73 | 75.3 | 676 | 8.02 | 2.5 | 42.3 | 2.3 | 5.5 | 0.8 | 0.06 | 1.51 | 24.2 | 1.80 | 0.08 | 1.0 | 77.8 | 24.6 |
| 92410 | 45.1 | 1.77 | 2.02 | 8.14 | 0.22 | 3.05 | 0.2 | 93 | 27.1 | 1120 | 7.35 | 0.4 | 44.7 | 1.9 | 1.3 | 0.7 | 0.09 | 0.61 | 43.0 | 1.48 | < 0.02 | 0.8 | 57.1 | 19.2 |
| 92411 | 46.4 | > 3.00 | 2.45 | 8.96 | 0.43 | 2.76 | 0.2 | 57 | 39.5 | 806 | 7.28 | 0.7 | 59.9 | 1.9 | 1.9 | 0.7 | < 0.05 | 0.83 | 49.3 | 1.51 | 0.02 | 0.6 | 66.8 | 21.6 |
| 92412 | 34.3 | > 3.00 | 2.23 | 8.10 | 0.80 | 2.06 | 0.2 | 99 | 65.8 | 795 | 7.05 | 1.7 | 51.0 | 1.9 | 3.2 | 0.7 | < 0.05 | 1.01 | 35.7 | 1.33 | 0.02 | 0.2 | 63.0 | 20.0 |
| 92413 | 37.9 | 2.67 | 2.27 | 8.19 | 1.27 | 2.82 | 0.3 | 145 | 98.2 | 1970 | 8.57 | 2.7 | 71.3 | 3.7 | 4.2 | 1.4 | < 0.05 | 1.38 | 40.1 | 3.56 | 0.07 | 0.8 | 105 | 22.6 |
| 92414 | 30.4 | 2.60 | 2.00 | 8.25 | 0.76 | 3.25 | 0.3 | 283 | 52.0 | 885 | 7.72 | 3.4 | 43.9 | 3.3 | 6.7 | 1.2 | < 0.05 | 1.10 | 34.8 | 2.07 | 0.08 | 0.7 | 68.9 | 24.7 |
| 92415 | 31.0 | > 3.00 | 2.14 | 8.15 | 0.80 | 2.25 | 0.2 | 132 | 85.1 | 1350 | 7.52 | 2.4 | 58.1 | 2.4 | 4.2 | 1.0 | < 0.05 | 1.12 | 36.6 | 3.16 | 0.03 | 0.5 | 69.0 | 20.9 |
| 92416 | 43.6 | 2.62 | 2.81 | 8.41 | 1.08 | 2.50 | 0.2 | 134 | 90.2 | 1360 | 8.28 | 1.9 | 87.4 | 2.9 | 3.3 | 1.1 | < 0.05 | 1.36 | 46.4 | 2.85 | 0.05 | 0.7 | 84.9 | 20.5 |
| 92417 | 32.1 | 2.89 | 0.99 | 3.20 | 0.50 | 2.33 | 0.2 | 187 | 68.5 | 572 | 7.05 | 1.2 | 51.3 | 1.1 | 3.0 | 0.4 | < 0.05 | 0.53 | 41.9 | 0.59 | 0.04 | 0.3 | 71.1 | 20.0 |
| 92418 | 52.1 | 2.05 | 2.25 | 6.54 | 0.79 | 4.29 | 0.6 | 266 | 22.0 | 4170 | 13.9 | 3.0 | 82.3 | 7.7 | 6.3 | 3.0 | < 0.05 | 1.12 | 57.2 | 9.29 | 0.08 | 1.5 | 171 | 22.0 |
| 92419 | 31.2 | 0.74 | 2.44 | 3.91 | 0.93 | 11.4 | 0.8 | 301 | 55.2 | 4030 | 9.85 | < 0.1 | 94.1 | 12.2 | 16.5 | 5.0 | 0.12 | 1.11 | 94.5 | 14.7 | 0.50 | 2.9 | 248 | 17.8 |
| 92420 | 43.1 | 2.48 | 2.48 | 7.56 | 1.42 | 2.91 | 0.4 | 157 | 174 | 2620 | 9.31 | 4.0 | 131 | 4.8 | 7.5 | 1.9 | < 0.05 | 1.91 | 60.9 | 5.22 | 0.14 | 1.0 | 149 | 22.0 |
| 92421 | 34.2 | 2.66 | 2.06 | 6.86 | 1.43 | 2.57 | 0.4 | 147 | 166 | 2060 | 7.91 | 3.5 | 102 | 3.9 | 6.9 | 1.6 | < 0.05 | 1.85 | 41.9 | 4.95 | 0.08 | 1.0 | 132 | 20.4 |
| 92422 | 40.0 | 2.78 | 2.46 | 7.53 | 1.64 | 2.13 | 0.3 | 172 | 185 | 1780 | 8.31 | 3.5 | 130 | 4.3 | 7.2 | 1.7 | < 0.05 | 1.95 | 44.5 | 5.02 | 0.09 | 0.7 | 129 | 22.3 |
| 92423 | 43.9 | 2.74 | 2.91 | 7.96 | 1.85 | 2.45 | 0.2 | 189 | 335 | 2110 | 9.80 | 4.2 | 205 | 4.6 | 6.9 | 1.8 | < 0.05 | 2.04 | 64.0 | 5.56 | 0.12 | 1.3 | 149 | 26.2 |
| 92424 | 39.5 | 2.68 | 2.75 | 7.46 | 1.71 | 2.46 | 0.3 | 198 | 200 | 1980 | 8.50 | 3.6 | 131 | 3.6 | 5.6 | 1.4 | < 0.05 | 1.99 | 47.3 | 4.33 | 0.15 | 1.0 | 125 | 22.5 |
| 92425 | 46.9 | 2.43 | 2.62 | 7.48 | 1.21 | 2.06 | 0.3 | 199 | 256 | 1350 | 8.22 | 4.1 | 155 | 3.8 | 6.1 | 1.6 | < 0.05 | 1.89 | 46.2 | 5.26 | 0.13 | 1.0 | 111 | 22.0 |
| 92426 | 49.8 | 2.08 | 2.52 | 5.97 | 1.73 | 1.96 | 0.5 | 151 | 306 | 1460 | 6.85 | 3.1 | 185 | 2.7 | 6.8 | 1.1 | < 0.05 | 2.88 | 33.3 | 4.47 | 0.13 | 0.6 | 163 | 18.5 |
| 92427 | 37.5 | 2.64 | 1.75 | 2.87 | 0.85 | 0.87 | 0.1 | 148 | 259 | 1110 | 5.33 | 4.0 | 148 | 1.5 | 5.2 | 0.6 | < 0.05 | 1.49 | 31.0 | 1.87 | 0.09 | 0.3 | 75.0 | 18.5 |
| 92428 | 40.3 | 2.63 | 1.99 | 6.37 | 1.71 | 1.81 | 0.3 | 148 | 149 | 1800 | 6.77 | 4.8 | 93.5 | 3.6 | 5.3 | 1.5 | < 0.05 | 1.87 | 27.5 | 5.88 | 0.13 | 0.8 | 99.0 | 18.1 |
| 92429 | 21.9 | 2.18 | 1.61 | 5.60 | 1.68 | 3.14 | 0.7 | 127 | 85.5 | 3300 | 6.80 | 2.1 | 59.2 | 5.6 | 6.3 | 2.3 | < 0.05 | 1.40 | 19.0 | 8.79 | 0.12 | 1.3 | 136 | 15.5 |
| 92430 | 32.1 | 2.14 | 1.69 | 5.91 | 1.66 | 2.36 | 0.3 | 108 | 121 | 1400 | 5.01 | 3.8 | 70.9 | 2.6 | 3.7 | 1.0 | < 0.05 | 1.92 | 20.7 | 3.73 | 0.11 | 0.9 | 97.7 | 15.8 |
| 92431 | 325 | 0.23 | 7.49 | 3.82 | 4.94 | 2.64 | 0.7 | 232 | 867 | 4280 | 10.3 | 2.0 | 516 | 6.7 | 27.8 | 2.9 | < 0.05 | 2.11 | 56.2 | 16.2 | 0.10 | 2.5 | 315 | 14.0 |
| 92432 | 25.8 | > 3.00 | 1.10 | 6.53 | 1.30 | 0.80 | 0.3 | 101 | 169 | 781 | 5.76 | 3.0 | 76.5 | 1.7 | 6.1 | 0.7 | < 0.05 | 1.67 | 17.7 | 3.87 | 0.12 | < 0.1 | 79.7 | 22.3 |
| 92433 | 45.0 | > 3.00 | 2.32 | 6.71 | 1.78 | 1.65 | 0.2 | 157 | 310 | 1340 | 7.29 | 3.3 | 208 | 3.3 | 7.7 | 1.3 | < 0.05 | 2.34 | 41.4 | 3.76 | 0.09 | 0.9 | 111 | 20.3 |
| 92434 | 50.3 | > 3.00 | 2.65 | 6.47 | 1.17 | 1.19 | 0.2 | 169 | 381 | 1500 | 8.96 | 3.1 | 235 | 2.3 | 9.3 | 0.9 | < 0.05 | 3.21 | 55.6 | 2.98 | 0.07 | 0.2 | 99.8 | 23.1 |
| 92435 | 36.1 | 1.04 | 2.99 | 6.69 | 3.33 | 1.01 | 0.3 | 134 | 234 | 1280 | 8.82 | 4.3 | 99.1 | 4.7 | 15.1 | 1.8 | < 0.05 | 1.91 | 55.2 | 4.03 | 0.08 | 1.1 | 101 | 25.4 |
| 92436 | 31.5 | > 3.00 | 1.74 | 6.61 | 1.09 | 1.39 | 0.3 | 101 | 244 | 1200 | 7.01 | 2.7 | 140 | 2.3 | 5.2 | 0.9 | < 0.05 | 1.37 | 32.7 | 4.30 | 0.11 | 0.5 | 69.1 | 20.0 |
| 92437 | 56.7 | > 3.00 | 2.94 | 5.53 | 0.97 | 1.53 | 0.3 | 217 | 676 | 1970 | 8.51 | 3.6 | 358 | 3.9 | 13.1 | 1.6 | < 0.05 | 2.32 | 61.1 | 6.02 | 0.13 | 1.3 | 100 | 17.7 |
| 92438 | 59.9 | 2.88 | 3.94 | 5.99 | 1.80 | 3.33 | 0.2 | 160 | 467 | 1620 | 7.24 | 3.3 | 304 | 3.3 | 10.3 | 1.3 | < 0.05 | 2.93 | 49.2 | 4.57 | 0.13 | 0.7 | 117 | 18.4 |
| 92439 | 37.7 | > 3.00 | 1.98 | 6.86 | 1.26 | 1.54 | 0.2 | 177 | 265 | 1110 | 6.60 | 4.4 | 159 | 2.9 | 6.8 | 1.2 | < 0.05 | 2.26 | 33.5 | 3.89 | 0.13 | 0.8 | 75.6 | 19.8 |
| 92440 | 49.5 | > 3.00 | 1.95 | 6.61 | 1.20 | 1.61 | 0.4 | 105 | 290 | 1380 | 7.16 | 3.4 | 178 | 4.2 | 9.3 | 1.8 | < 0.05 | 2.12 | 37.3 | 7.09 | 0.18 | 0.7 | 157 | 20.7 |
| 92441 | 23.6 | > 3.00 | 1.59 | 6.70 | 1.26 | 1.48 | 0.2 | 98 | 299 | 1030 | 6.09 | 2.6 | 133 | 1.8 | 4.7 | 0.7 | 0.06 | 3.00 | 29.7 | 3.06 | 0.20 | 0.2 | 72.5 | 19.3 |
| 92442 | 64.1 | > 3.00 | 4.84 | > 10.0 | 1.45 | 4.13 | 0.7 | 375 | 847 | 2780 | 14.8 | 5.2 | 478 | 6.5 | 16.4 | 2.7 | < 0.05 | 5.98 | 90.7 | 9.41 | 0.29 | 1.5 | 213 | 37.5 |
| 92443 | 34.6 | > 3.00 | 1.90 | 6.72 | 1.38 | 1.14 | 0.1 | 93 | 265 | 967 | 6.39 | 3.0 | 138 | 1.8 | 5.7 | 0.7 | < 0.05 | 3.01 | 34.6 | 2.72 | 0.06 | 0.5 | 88.1 | 20.3 |
| 92444 | 48.4 | > 3.00 | 3.47 | 6.07 | 1.71 | 3.83 | 0.2 | 131 | 351 | 1360 | 6.83 | 3.3 | 268 | 2.7 | 9.4 | 1.0 | < 0.05 | 2.89 | 46.7 | 3.37 | 0.07 | 0.6 | 92.8 | 18.7 |
| 92445 | 20.8 | > 3.00 | 3.57 | 2.48 | 0.38 | 0.93 | 0.1 | 268 | 1350 | 1260 | 7.33 | 2.6 | 550 | 1.1 | 6.1 | 0.4 | < 0.05 | 2.40 | 67.5 | 1.09 | < 0.02 | 0.5 | 68.6 | 19.7 |
| 92446 | 40.0 | > 3.00 | 2.21 | 4.25 | 0.95 | 0.76 | 0.2 | 184 | 541 | 1650 | 7.51 | 3.7 | 300 | 1.7 | 9.3 | 0.6 | < 0.05 | 2.78 | 53.2 | 2.00 | 0.06 | 0.4 | 90.6 | 19.6 |
| 92447 | 36.4 | > 3.00 | 1.75 | 6.72 | 0.96 | 0.86 | 0.1 | 88 | 307 | 486 | 6.44 | 3.4 | 150 | 1.4 | 4.1 | 0.5 | < 0.05 | 2.16 | 28.5 | 2.13 | 0.05 | 0.5 | 72.9 | 21.0 |
| 92448 | 33.2 | > 3.00 | 1.95 | 6.90 | 1.01 | 1.00 | 0.2 | 103 | 505 | 1160 | 7.98 | 2.8 | 330 | 3.0 | 8.4 | 1.2 | < 0.05 | 2.22 | 50.3 | 3.29 | 0.29 | 0.7 | 102 | 19.8 |
| 92449 | 42.8 | > 3.00 | 1.82 | 6.33 | 0.94 | 0.47 | 0.1 | 72 | 368 | 539 | 7.36 | 2.6 | 211 | 1.1 | 11.1 | 0.5 | < 0.05 | 3.03 | 36.5 | 2.22 | 0.09 | 0.3 | 78.9 | 23.4 |
| 92450 | 22.7 | > 3.00 | 1.58 | 6.66 | 1.12 | 1.03 | 0.3 | 76 | 246 | 406 | 5.05 | 3.0 | 129 | 1.6 | 3.8 | 0.6 | < 0.05 | 2.59 | 24.0 | 2.15 | 0.06 | 0.4 | 62.1 | 20.4 |
| 92451 | 55.3 | > 3.00 | 3.77 | 6.01 | 0.56 | 0.82 | 0.3 | 261 | 1540 | 1840 | 9.68 | 3.0 | 660 | 1.7 | 10.2 | 0.7 | < 0.05 | 1.72 | 86.2 | 1.82 | < 0.02 | 0.6 | 135 | 18.9 |
| 92452 | 36.5 | 2.50 | 3.32 | 5.45 | 0.65 | 3.44 | 0.4 | 255 | 200 | 2730 | 8 | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92454 | 35.2 | 2.90 | 1.67 | 7.13 | 1.69 | 1.23 | 0.1 | 123 | 178 | 833 | 5.14 | 4.9 | 108 | 1.9 | 3.8 | 0.7 | < 0.05 | 2.19 | 26.4 | 2.28 | 0.05 | 0.3 | 57.3 | 17.8 |
| 92455 | 1.0 | 0.09 | 0.51 | 0.39 | 0.08 | 5.25 | 0.3 | 8 | 10.8 | 230 | 0.48 | 0.2 | 20.9 | 0.8 | 0.8 | 0.3 | < 0.05 | 0.49 | 1.5 | 0.53 | < 0.02 | 1.0 | 8.7 | 1.6 |
| 92456 | 63.4 | > 3.00 | 2.53 | 5.18 | 1.19 | 1.24 | 0.2 | 210 | 720 | 2150 | 8.87 | 4.4 | 358 | 3.0 | 10.6 | 1.2 | < 0.05 | 2.21 | 51.9 | 5.42 | 0.12 | 0.9 | 110 | 19.0 |
| 92457 | 41.9 | > 3.00 | 2.31 | 6.06 | 1.12 | 1.79 | 0.2 | 142 | 352 | 2140 | 6.30 | 3.1 | 195 | 2.7 | 7.2 | 1.1 | < 0.05 | 2.41 | 42.8 | 4.44 | 0.07 | 0.4 | 108 | 17.7 |
| 92458 | 50.7 | > 3.00 | 3.03 | 5.78 | 1.21 | 1.66 | 0.4 | 179 | 419 | 2520 | 8.62 | 3.1 | 262 | 3.0 | 7.9 | 1.2 | < 0.05 | 2.32 | 49.5 | 4.08 | 0.11 | 0.9 | 148 | 18.0 |
| 92459 | 43.5 | 2.66 | 2.58 | 5.88 | 1.13 | 1.83 | 0.2 | 132 | 476 | 1420 | 6.56 | 2.7 | 268 | 2.8 | 7.4 | 1.1 | < 0.05 | 2.28 | 39.7 | 4.58 | 0.09 | 0.9 | 99.7 | 17.3 |
| 92460 | 26.6 | > 3.00 | 1.21 | 6.68 | 1.13 | 0.81 | 0.3 | 95 | 230 | 387 | 5.20 | 2.8 | 110 | 1.5 | 5.7 | 0.6 | < 0.05 | 1.90 | 17.8 | 3.57 | 0.09 | 0.4 | 47.1 | 20.5 |
| 92461 | 13.0 | 0.93 | 1.00 | 2.88 | 1.15 | 5.87 | 0.6 | 97 | 85.0 | 4430 | 3.88 | < 0.1 | 51.7 | 8.7 | 2.7 | 3.6 | < 0.05 | 1.16 | 19.4 | 14.4 | 0.06 | 2.0 | 56.1 | 8.0 |
| 92462 | 26.2 | 2.69 | 1.03 | 5.80 | 0.88 | 1.61 | 0.3 | 456 | 373 | 758 | 10.0 | 3.7 | 68.6 | 13.4 | 23.3 | 5.5 | < 0.05 | 1.24 | 17.7 | 15.0 | 0.28 | 3.3 | 116 | 20.0 |
| 92463 | 12.6 | 2.35 | 0.58 | 6.22 | 2.03 | 1.10 | 0.1 | 34 | 59.5 | 266 | 2.24 | 4.8 | 15.5 | 1.0 | 1.6 | 0.4 | < 0.05 | 1.83 | 7.8 | 0.94 | 0.05 | 0.3 | 27.2 | 17.2 |
| 92464 | 45.9 | > 3.00 | 2.55 | 7.21 | 1.81 | 1.36 | 0.2 | 184 | 323 | 1420 | 6.90 | 4.5 | 210 | 2.8 | 7.5 | 1.1 | < 0.05 | 2.83 | 41.7 | 3.42 | 0.10 | 0.9 | 100.0 | 20.4 |
| 92465 | 37.9 | > 3.00 | 2.08 | 7.28 | 1.18 | 1.68 | 0.3 | 118 | 165 | 1330 | 7.08 | 4.8 | 117 | 4.9 | 8.9 | 2.0 | < 0.05 | 1.62 | 37.2 | 6.70 | 0.11 | 1.4 | 125 | 21.1 |
| 92466 | 33.8 | 2.74 | 1.25 | 2.69 | 0.85 | 0.65 | 0.2 | 146 | 220 | 669 | 5.20 | 4.2 | 102 | 1.1 | 3.9 | 0.5 | < 0.05 | 1.24 | 28.2 | 1.17 | 0.05 | 0.5 | 70.7 | 18.7 |
| 92467 | 35.6 | 2.91 | 1.81 | 5.82 | 1.46 | 1.10 | 0.2 | 150 | 210 | 883 | 5.60 | 4.7 | 107 | 1.7 | 4.9 | 0.6 | < 0.05 | 1.80 | 30.2 | 1.71 | 0.05 | 0.5 | 80.8 | 19.7 |
| 92468 | 26.2 | 2.68 | 3.27 | 6.10 | 1.35 | 1.51 | 0.4 | 178 | 731 | 1240 | 8.38 | 4.9 | 272 | 1.9 | 8.4 | 0.7 | < 0.05 | 2.70 | 50.4 | 2.30 | 0.06 | 0.5 | 85.5 | 18.7 |
| 92469 | 67.4 | 2.10 | 2.22 | 6.06 | 1.38 | 2.64 | 0.6 | 184 | 180 | 3520 | 9.02 | 1.9 | 107 | 8.4 | 17.0 | 3.5 | < 0.05 | 2.29 | 37.9 | 13.5 | 0.51 | 1.8 | 329 | 19.5 |
| 92470 | 44.8 | 0.68 | 1.00 | 5.02 | 1.50 | 2.01 | 1.0 | 164 | 201 | 2490 | 11.5 | 4.7 | 120 | 9.1 | 13.3 | 3.9 | < 0.05 | 1.43 | 45.8 | 12.9 | 0.39 | 2.1 | 253 | 21.0 |
| 92471 | 50.7 | 2.52 | 4.04 | 5.77 | 1.71 | 2.49 | 0.3 | 223 | 338 | 1730 | 8.89 | 2.5 | 172 | 3.3 | 5.0 | 1.4 | < 0.05 | 3.06 | 43.6 | 4.26 | 0.29 | 1.0 | 145 | 19.7 |
| 92472 | 35.3 | 0.05 | 1.80 | 2.06 | 0.04 | 2.23 | 0.2 | 38 | 598 | 1970 | 9.00 | 0.1 | 199 | 3.9 | 2.5 | 1.6 | 0.18 | 0.37 | 46.7 | 5.36 | 0.03 | 1.0 | 62.1 | 8.2 |
| 92473 | 34.0 | > 3.00 | 2.26 | 6.80 | 1.53 | 1.29 | 0.2 | 148 | 295 | 1430 | 7.50 | 4.2 | 191 | 2.8 | 6.2 | 1.1 | < 0.05 | 2.89 | 44.3 | 3.55 | 0.08 | 0.9 | 112 | 21.5 |
| 92474 | 48.1 | 1.03 | 3.07 | 4.03 | 0.43 | 2.13 | 0.5 | 240 | 217 | 4280 | 8.02 | 0.1 | 268 | 5.6 | 4.9 | 2.6 | < 0.05 | 1.53 | 116 | 8.22 | 0.32 | 1.5 | 166 | 14.2 |
| 92475 | 36.0 | 2.93 | 1.70 | 2.63 | 1.11 | 0.80 | 0.4 | 207 | 415 | 1890 | 7.16 | 3.7 | 197 | 1.6 | 7.0 | 0.7 | < 0.05 | 1.62 | 48.0 | 2.09 | 0.11 | 0.5 | 115 | 18.7 |
| 92008 | 3.6 | 0.40 | 2.12 | 1.37 | 0.77 | 19.2 | 1.3 | 382 | 44.5 | 6840 | 9.30 | < 0.1 | 41.1 | 26.3 | 7.0 | 11.6 | 0.70 | 0.48 | 41.4 | 65.2 | 0.19 | 6.8 | 271 | 5.3 |
| 92009 | 6.2 | 0.40 | 0.42 | 1.42 | 0.24 | 21.1 | 2.2 | 317 | 28.4 | 8120 | 10.6 | < 0.1 | 38.1 | 34.4 | 9.5 | 15.9 | < 0.05 | 0.72 | 39.5 | 69.7 | 0.49 | 9.6 | 185 | 4.7 |
| 92501 | 23.1 | > 3.00 | 1.42 | 6.80 | 1.30 | 0.95 | 0.2 | 80 | 186 | 547 | 5.73 | 2.9 | 106 | 1.7 | 4.7 | 0.6 | 0.28 | 2.56 | 25.6 | 2.35 | 0.07 | 0.7 | 71.8 | 20.8 |
| 92502 | 32.5 | 1.63 | 2.57 | 5.89 | 2.51 | 1.37 | 0.3 | 158 | 116 | 2100 | 11.5 | 1.3 | 119 | 7.0 | 6.5 | 2.9 | 0.12 | 3.70 | 50.5 | 6.29 | 0.04 | 1.6 | 212 | 20.3 |
| 92503 | 39.7 | 2.83 | 2.59 | 5.91 | 0.93 | 1.64 | 0.2 | 101 | 413 | 1230 | 7.25 | 2.5 | 248 | 2.7 | 8.1 | 1.0 | 0.16 | 3.27 | 48.9 | 3.06 | 0.06 | 1.1 | 97.5 | 18.8 |
| 92504 | 39.4 | 2.81 | 1.66 | 6.74 | 1.56 | 1.26 | 0.2 | 111 | 249 | 929 | 6.39 | 4.5 | 145 | 2.8 | 5.7 | 1.1 | < 0.05 | 1.96 | 32.8 | 2.90 | 0.05 | 0.9 | 63.7 | 16.9 |
| 92505 | 33.5 | 2.70 | 2.02 | 5.82 | 1.40 | 1.95 | 0.4 | 124 | 275 | 2540 | 6.44 | 2.3 | 154 | 3.1 | 10.6 | 1.2 | 0.10 | 2.89 | 38.4 | 3.98 | 0.06 | 1.1 | 92.2 | 16.4 |
| 92506 | 50.5 | > 3.00 | 3.32 | 6.03 | 1.19 | 2.09 | 0.2 | 119 | 389 | 1880 | 8.70 | 2.4 | 257 | 4.0 | 11.3 | 1.6 | < 0.05 | 3.15 | 53.8 | 4.42 | 0.09 | 1.5 | 139 | 21.0 |
| 92507 | 37.1 | > 3.00 | 2.45 | 3.95 | 1.13 | 2.03 | 0.2 | 193 | 417 | 798 | 6.64 | 4.0 | 232 | 1.9 | 8.7 | 0.7 | < 0.05 | 1.49 | 41.5 | 1.99 | 0.10 | 0.9 | 92.2 | 18.1 |
| 92508 | 43.4 | 2.89 | 2.24 | 4.86 | 1.25 | 1.34 | 0.2 | 183 | 386 | 1480 | 7.12 | 4.4 | 208 | 2.5 | 11.1 | 1.0 | < 0.05 | 2.32 | 43.4 | 2.96 | 0.08 | 0.9 | 88.9 | 18.5 |
| 92509 | 20.4 | 2.55 | 0.89 | 5.52 | 1.75 | 1.51 | 0.1 | 65 | 67.3 | 607 | 3.33 | 5.8 | 28.1 | 1.3 | 1.5 | 0.5 | < 0.05 | 1.37 | 12.2 | 0.87 | 0.05 | 0.3 | 40.6 | 16.9 |
| 92510 | 30.4 | 2.48 | 1.61 | 7.16 | 2.00 | 1.70 | 0.1 | 93 | 86.2 | 877 | 4.27 | 5.0 | 61.1 | 1.7 | 2.5 | 0.7 | < 0.05 | 1.97 | 19.8 | 1.69 | 0.06 | 0.4 | 58.0 | 19.8 |
| 92511 | 13.5 | 2.31 | 0.88 | 6.53 | 2.08 | 1.25 | < 0.1 | 76 | 54.7 | 328 | 3.26 | 5.7 | 24.0 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.95 | 7.4 | 1.02 | 0.06 | 0.3 | 30.8 | 19.6 |
| 92512 | 23.2 | 2.51 | 1.23 | 7.19 | 2.05 | 1.72 | < 0.1 | 78 | 72.4 | 650 | 3.77 | 4.8 | 42.4 | 1.7 | 1.9 | 0.7 | < 0.05 | 1.56 | 14.8 | 1.73 | 0.05 | 0.6 | 41.8 | 18.3 |
| 92513 | 23.8 | 2.32 | 0.91 | 6.92 | 1.85 | 1.27 | 0.2 | 64 | 59.7 | 374 | 3.41 | 4.8 | 27.1 | 1.2 | 1.6 | 0.4 | < 0.05 | 1.51 | 9.9 | 0.89 | 0.05 | 0.4 | 31.6 | 16.3 |
| 92514 | 21.1 | 2.55 | 0.92 | 7.30 | 2.13 | 1.43 | 0.1 | 58 | 45.3 | 495 | 3.24 | 4.8 | 26.2 | 1.3 | 2.0 | 0.5 | < 0.05 | 1.63 | 11.0 | 0.93 | 0.05 | 0.2 | 36.8 | 17.3 |
| 92515 | 18.8 | 2.52 | 0.83 | 6.94 | 2.01 | 1.50 | 0.1 | 60 | 55.0 | 373 | 3.26 | 5.7 | 22.9 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.37 | 8.5 | 0.84 | 0.03 | 0.1 | 30.5 | 17.9 |
| 92516 | 16.3 | 2.29 | 0.93 | 6.57 | 1.97 | 1.53 | 0.2 | 66 | 55.5 | 313 | 2.82 | 5.7 | 23.0 | 1.3 | 1.4 | 0.5 | < 0.05 | 1.93 | 7.1 | 1.24 | 0.04 | 0.2 | 28.5 | 17.9 |
| 92517 | 15.8 | 2.29 | 0.60 | 2.70 | 1.48 | 1.11 | 0.1 | 61 | 53.5 | 338 | 3.05 | 4.9 | 20.7 | 0.7 | 1.3 | 0.3 | < 0.05 | 0.91 | 7.4 | 0.44 | 0.05 | 0.3 | 28.6 | 15.6 |
| 92518 | 24.9 | 2.42 | 0.93 | 5.00 | 1.50 | 1.27 | 0.1 | 71 | 73.1 | 516 | 3.86 | 5.8 | 32.3 | 1.2 | 1.6 | 0.4 | < 0.05 | 1.36 | 13.2 | 0.74 | 0.05 | 0.5 | 37.0 | 18.5 |
| 92519 | 40.1 | 2.05 | 1.47 | 5.06 | 1.58 | 1.89 | 0.5 | 83 | 107 | 1280 | 4.39 | 4.4 | 46.3 | 3.3 | 2.9 | 1.4 | < 0.05 | 1.38 | 15.3 | 5.29 | 0.13 | 0.6 | 105 | 16.5 |
| 92520 | 37.0 | 2.00 | 1.21 | 6.51 | 1.65 | 1.56 | 0.2 | 96 | 65.7 | 1060 | 5.74 | 5.3 | 34.6 | 2.3 | 2.0 | 1.0 | < 0.05 | 1.14 | 16.6 | 5.50 | 0.17 | 0.9 | 107 | 19.1 |
| 92521 | 30.8 | 2.05 | 1.09 | 6.62 | 1.72 | 1.23 | 0.6 | 89 | 65.2 | 1480 | 5.08 | 4.4 | 34.5 | 1.5 | 1.8 | 0.6 | < 0.05 | 1.41 | 13.2 | 3.08 | 0.29 | 0.5 | 89.6 | 19.0 |
| 92522 | 30.1 | 2.45 | 1.10 | 7.24 | 2.06 | 1.53 | 0.1 | 74 | 67.2 | 501 | 3.96 | 4.5 | 38.6 | 1.4 | 1.8 | 0.5 | < 0.05 | 1.70 | 13.7 | 1.29 | 0.06 | 0.7 | 40.6 | 20.9 |
| 92523 | 28.3 | 2.53 | 1.49 | 6.77 | 2.29 | 1.68 | 0.1 | 88 | 85.7 | 555 | 3.99 | 4.8 | 55.2 | 1.7 | 2.1 | 0.6 | < 0.05 | 1.64 | 15.3 | 1.63 | 0.06 | 0.2 | 57.4 | 20.0 |
| 92524 | 59.7 | 0.47 | 6.72 | 4.93 | 2.11 | 6.55 | 0.3 | 375 | 26.8 | 4090 | 10.5 | 0.6 | 22.4 | 6.5 | 13.4 | 2.7 | < 0.05 | 5.82 | 40.6 | 7.22 | 0.03 | 1.1 | 203 | 23.8 |
| 92525 | 42.7 | 2.08 | 2.56 | 6.94 | 1.81 | 3.29 | 0.4 | 114 | 64.6 | 2620 | 6.95 | 1.5 | 42.4 | 4.3 | 4.6 | 1.8 | < 0.05 | 2.17 | 20.0 | 8.74 | 0.11 | 0.7 | 115 | 19.1 |
| 92526 | 33.4 | 2.63 | 1.79 | 6.86 | 2.39 | 2.28 | 0.2 | 113 | 98.3 | 1490 | 5.21 | 4.7 | 60.4 | 2.9 | 4.2 | 1.2 | < 0.05 | 1.95 | 20.8 | 4.44 | 0.11 | 0.7 | 93.4 | 21.2 |
| 92527 | 29.4 | 2.45 | 1.51 | 6.19 | 2.10 | 2.37 | 0.2 | 92 | 76.3 | 1160 | 4.62 | 4.6 | 46.3 | 2.6 | 2.8 | 1.0 | < 0.05 | 1.84 | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92529 | 23.7 | 1.86 | 1.45 | 4.54 | 1.50 | 3.46 | 0.4 | 88 | 53.9 | 2110 | 4.26 | 1.5 | 31.1 | 4.1 | 5.2 | 1.7 | < 0.05 | 1.35 | 14.9 | 7.00 | 0.20 | 0.8 | 121 | 13.7 |
| 92530 | 26.6 | 1.99 | 1.46 | 5.67 | 1.66 | 3.27 | 0.4 | 84 | 43.8 | 1610 | 4.18 | 0.7 | 30.6 | 4.0 | 5.3 | 1.7 | < 0.05 | 1.64 | 13.6 | 7.10 | 0.17 | 1.1 | 115 | 15.3 |
| 92531 | 25.6 | 2.51 | 1.31 | 7.08 | 2.07 | 2.98 | 0.4 | 87 | 50.4 | 2210 | 4.75 | 1.9 | 36.1 | 3.8 | 3.0 | 1.6 | < 0.05 | 1.62 | 17.3 | 6.93 | 0.15 | 0.8 | 106 | 17.6 |
| 92532 | 26.6 | 2.24 | 1.16 | 6.10 | 1.99 | 2.34 | 0.4 | 71 | 55.5 | 1170 | 3.76 | 4.4 | 34.3 | 2.1 | 2.9 | 0.8 | < 0.05 | 1.85 | 12.8 | 3.00 | 0.09 | 0.7 | 91.8 | 16.8 |
| 92533 | 35.2 | 2.35 | 1.65 | 6.24 | 1.91 | 4.11 | 0.7 | 101 | 42.6 | 3710 | 4.82 | 0.5 | 28.0 | 6.0 | 8.0 | 2.6 | < 0.05 | 1.74 | 17.7 | 12.1 | 0.31 | 1.5 | 191 | 14.9 |
| 92534 | 27.2 | 2.00 | 1.47 | 5.80 | 1.71 | 3.47 | 0.5 | 85 | 40.9 | 2810 | 4.47 | 0.7 | 33.7 | 4.5 | 6.9 | 1.9 | < 0.05 | 1.52 | 17.0 | 8.78 | 0.28 | 1.1 | 135 | 14.2 |
| 92535 | 27.4 | 1.83 | 1.64 | 5.02 | 1.39 | 4.96 | 0.7 | 79 | 55.8 | 2770 | 4.53 | < 0.1 | 28.6 | 5.6 | 6.2 | 2.5 | 0.16 | 1.38 | 16.2 | 11.3 | 0.26 | 1.4 | 140 | 12.1 |
| 92536 | 32.6 | 0.50 | 2.40 | 1.37 | 0.57 | 4.95 | 1.0 | 108 | 70.9 | 4630 | 6.24 | 1.5 | 28.6 | 6.3 | 7.0 | 2.6 | < 0.05 | 1.14 | 22.6 | 10.7 | 0.24 | 2.0 | 119 | 8.3 |
| 92537 | 32.0 | 2.26 | 1.04 | 4.38 | 1.10 | 1.74 | 0.2 | 79 | 119 | 1270 | 4.38 | 3.1 | 37.9 | 2.5 | 2.7 | 1.0 | < 0.05 | 1.39 | 16.2 | 2.90 | 0.14 | 0.4 | 72.8 | 16.3 |
| 92538 | 36.8 | 2.76 | 1.73 | 6.38 | 1.55 | 2.92 | 0.4 | 110 | 80.1 | 3730 | 6.23 | 1.8 | 58.1 | 4.7 | 4.2 | 1.9 | < 0.05 | 2.01 | 23.7 | 6.77 | 0.16 | 0.5 | 107 | 20.5 |
| 92539 | 30.0 | 1.70 | 2.34 | 6.22 | 1.79 | 6.41 | 5.3 | 314 | 59.4 | 1490 | 9.06 | 0.1 | 92.6 | 6.6 | 175 | 2.8 | 0.35 | 2.72 | 61.8 | 12.1 | 0.08 | 1.8 | 1730 | 23.5 |
| 92540 | 38.5 | 0.90 | 1.55 | 4.00 | 0.86 | 6.35 | 0.9 | 155 | 61.4 | 6320 | 14.6 | < 0.1 | 30.9 | 9.1 | 11.1 | 3.9 | 0.08 | 1.37 | 80.2 | 17.0 | 0.18 | 2.1 | 146 | 16.2 |
| 92541 | 29.4 | 2.73 | 1.24 | 7.03 | 2.05 | 1.92 | 0.1 | 86 | 76.3 | 645 | 4.15 | 5.2 | 38.6 | 1.7 | 2.4 | 0.6 | < 0.05 | 1.55 | 14.3 | 2.01 | 0.05 | < 0.1 | 47.5 | 20.2 |
| 92542 | 27.8 | 2.68 | 1.43 | 7.14 | 2.11 | 2.17 | 0.1 | 87 | 90.1 | 592 | 4.11 | 4.9 | 48.6 | 1.9 | 2.4 | 0.7 | < 0.05 | 1.67 | 14.4 | 2.10 | 0.07 | 0.5 | 57.7 | 19.3 |
| 92543 | 29.5 | 1.95 | 1.24 | 6.58 | 1.78 | 2.23 | 0.4 | 92 | 71.8 | 1320 | 5.95 | 3.0 | 36.5 | 3.5 | 4.8 | 1.5 | < 0.05 | 1.42 | 16.6 | 7.57 | 0.13 | 0.9 | 238 | 19.1 |
| 92544 | 20.9 | > 3.00 | 0.80 | 6.49 | 2.37 | 1.76 | 0.1 | 76 | 70.2 | 482 | 4.30 | 5.8 | 28.3 | 1.2 | 1.8 | 0.4 | < 0.05 | 1.39 | 10.5 | 0.80 | 0.04 | 0.6 | 43.3 | 21.7 |
| 92545 | 28.6 | > 3.00 | 1.30 | 7.66 | 2.18 | 2.10 | 0.2 | 89 | 146 | 567 | 5.65 | 5.8 | 34.8 | 1.5 | 1.7 | 0.5 | < 0.05 | 1.50 | 15.1 | 1.17 | 0.10 | 0.4 | 49.1 | 25.6 |
| 92546 | 15.6 | 2.54 | 0.69 | 6.93 | 2.04 | 1.38 | 0.1 | 59 | 54.5 | 316 | 3.18 | 5.3 | 19.0 | 1.0 | 1.6 | 0.3 | < 0.05 | 1.40 | 6.6 | 0.71 | 0.02 | 0.6 | 30.5 | 18.0 |
| 92547 | 16.4 | 2.34 | 0.54 | 2.70 | 1.41 | 2.03 | 0.3 | 58 | 59.1 | 1510 | 3.34 | 3.9 | 19.8 | 1.6 | 1.7 | 0.6 | < 0.05 | 0.94 | 11.0 | 1.78 | 0.05 | < 0.1 | 40.2 | 15.9 |
| 92548 | 21.1 | 2.69 | 1.00 | 6.49 | 1.86 | 1.51 | 0.1 | 65 | 66.9 | 543 | 3.53 | 5.4 | 30.6 | 1.3 | 1.6 | 0.5 | < 0.05 | 1.41 | 12.0 | 0.84 | 0.04 | 0.2 | 38.7 | 18.8 |
| 92549 | 22.0 | 2.57 | 0.97 | 6.84 | 1.75 | 1.46 | 0.2 | 73 | 55.4 | 424 | 3.30 | 6.1 | 25.5 | 1.2 | 1.7 | 0.4 | < 0.05 | 2.16 | 8.8 | 0.90 | 0.06 | < 0.1 | 39.6 | 21.4 |
| 92550 | 21.8 | 2.49 | 0.95 | 6.52 | 1.95 | 1.53 | 0.1 | 63 | 54.9 | 795 | 3.56 | 5.4 | 28.2 | 1.5 | 1.7 | 0.6 | < 0.05 | 1.56 | 11.5 | 1.38 | 0.10 | < 0.1 | 41.2 | 17.2 |
| 92326 | 35.2 | > 3.00 | 2.29 | 6.89 | 1.43 | 2.43 | 0.3 | 205 | 266 | 1760 | 7.93 | 5.3 | 162 | 4.5 | 7.3 | 1.8 | < 0.05 | 2.16 | 41.7 | 6.43 | 0.09 | 1.5 | 111 | 20.1 |
| 92327 | 26.9 | 1.63 | 2.17 | 4.04 | 0.74 | 4.44 | 0.2 | 134 | 145 | 931 | 5.53 | 2.4 | 114 | 2.8 | 5.5 | 1.2 | < 0.05 | 2.20 | 29.4 | 3.78 | 0.07 | 1.2 | 76.1 | 12.6 |
| 92328 | 32.6 | 1.86 | 2.26 | 4.99 | 0.88 | 2.86 | 0.7 | 185 | 304 | 2480 | 7.82 | 1.8 | 220 | 4.8 | 7.5 | 2.0 | < 0.05 | 2.03 | 50.8 | 7.50 | 0.18 | 1.2 | 159 | 16.4 |
| 92329 | 31.9 | 2.50 | 1.59 | 5.42 | 0.78 | 3.37 | 0.2 | 176 | 82.7 | 1490 | 7.34 | 0.5 | 98.1 | 5.3 | 5.2 | 2.1 | < 0.05 | 1.84 | 41.0 | 5.07 | 0.08 | 1.2 | 91.9 | 16.7 |
| 92330 | 37.1 | > 3.00 | 2.13 | 6.07 | 0.87 | 1.10 | 0.1 | 205 | 294 | 1330 | 9.37 | 4.9 | 131 | 1.7 | 6.4 | 0.7 | < 0.05 | 1.00 | 59.1 | 2.03 | 0.37 | 0.5 | 109 | 22.1 |
| 92331 | 30.2 | 1.47 | 2.73 | 5.00 | 1.43 | 9.21 | 0.8 | 244 | 100 | 4710 | 12.7 | 2.2 | 97.7 | 15.7 | 18.0 | 6.7 | < 0.05 | 1.59 | 44.2 | 20.4 | 0.29 | 3.3 | 240 | 18.2 |
| 92332 | 48.5 | 0.20 | 1.21 | 1.92 | 0.38 | 7.06 | 0.4 | 503 | 22.7 | 2210 | 10.7 | 16.4 | 27.3 | 9.3 | 11.6 | 3.8 | < 0.05 | 0.25 | 64.5 | 10.9 | 0.30 | 1.8 | 247 | 29.4 |
| 92333 | 59.0 | 2.43 | 2.06 | 4.84 | 1.17 | 1.00 | 0.3 | 231 | 256 | 827 | 8.25 | 5.7 | 116 | 2.2 | 8.8 | 0.8 | < 0.05 | 1.55 | 39.7 | 2.29 | 0.11 | 0.2 | 117 | 22.6 |
| 92334 | 39.3 | 2.45 | 1.99 | 6.46 | 1.12 | 1.79 | 0.1 | 186 | 298 | 714 | 7.63 | 4.1 | 88.4 | 2.9 | 6.4 | 1.2 | < 0.05 | 1.18 | 34.0 | 3.00 | 0.15 | 0.6 | 80.9 | 24.1 |
| 92335 | 43.2 | 2.23 | 1.73 | 6.60 | 1.22 | 1.63 | 0.5 | 136 | 173 | 2700 | 8.46 | 3.5 | 92.0 | 6.6 | 9.3 | 2.8 | < 0.05 | 3.12 | 33.4 | 9.72 | 0.13 | 1.5 | 127 | 20.5 |
| 92336 | 48.3 | 2.68 | 1.76 | 6.59 | 1.53 | 1.75 | 0.2 | 108 | 124 | 630 | 8.27 | 3.1 | 65.5 | 2.1 | 4.8 | 0.8 | < 0.05 | 2.41 | 30.3 | 1.67 | 0.17 | 0.7 | 102 | 22.9 |
| 92337 | 50.6 | 2.83 | 1.80 | 6.06 | 0.92 | 1.84 | 0.3 | 145 | 190 | 948 | 8.40 | 4.2 | 94.8 | 3.1 | 5.4 | 1.2 | < 0.05 | 1.26 | 35.0 | 2.78 | 0.16 | 0.9 | 121 | 20.3 |
| 92338 | 68.8 | 2.26 | 1.35 | 6.38 | 0.77 | 3.16 | 0.3 | 166 | 159 | 2240 | 9.23 | 2.7 | 62.3 | 4.6 | 6.0 | 1.8 | < 0.05 | 1.11 | 36.8 | 4.27 | 0.13 | 1.7 | 119 | 19.8 |
| 92339 | 39.4 | 2.29 | 1.77 | 6.18 | 1.35 | 2.79 | 0.4 | 224 | 127 | 1240 | 8.99 | 6.1 | 55.1 | 4.9 | 6.1 | 1.9 | < 0.05 | 1.47 | 30.3 | 5.00 | 0.15 | 1.2 | 138 | 22.0 |
| 92005 | 50.8 | 0.19 | 1.55 | 1.36 | 0.38 | 23.6 | 0.2 | 78 | 110 | 722 | 14.9 | 0.1 | 12.3 | 24.7 | 18.5 | 11.4 | < 0.05 | 0.86 | 13.2 | 48.2 | 0.41 | 5.9 | 109 | 17.4 |
| 92006 | 49.6 | 1.09 | 1.39 | 1.91 | 0.73 | 2.18 | 1.5 | 154 | 261 | > 10000 | 15.0 | 2.1 | 104 | 10.1 | 16.7 | 4.6 | < 0.05 | 1.25 | 43.0 | 31.0 | 3.56 | 3.2 | 1390 | 12.0 |
| 92007 | 33.1 | 0.70 | 2.39 | 2.48 | 0.83 | 11.2 | 4.3 | 100 | 43.0 | 5630 | 11.1 | 2.7 | 34.9 | 26.1 | 49.1 | 10.4 | < 0.05 | 1.02 | 32.1 | 33.8 | 1.82 | 5.3 | 1710 | 7.8 |
| 92011 | 46.9 | 0.70 | 0.70 | 2.67 | 0.60 | 2.51 | 4.2 | 277 | 285 | > 10000 | 21.5 | 0.5 | 34.8 | 33.7 | 24.9 | 17.1 | < 0.05 | 1.28 | 46.3 | > 100 | 10.3 | 11.0 | 1520 | 7.9 |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 101976 | 6.7 | 64.8 | 27.7 | 238 | 117 | 1.1 | 1.4 | < 0.1 | < 1 | 0.1 | < 0.1 | 705 | 56.6 | 112 | 15.2 | 56.4 | 9.7 | 7.9 | 1.0 | 5.5 | 183 | 0.4 | 0.4 | 2.1 |
| 101977 | 2.1 | 40.1 | 23.5 | 242 | 79 | < 0.1 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 459 | 53.4 | 105 | 13.6 | 48.4 | 8.7 | 6.9 | 0.9 | 5.1 | 146 | 0.4 | 0.3 | 1.6 |
| 101978 | 1.6 | 40.5 | 34.3 | 317 | 80 | 0.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 449 | 39.7 | 80.4 | 10.0 | 35.3 | 6.5 | 6.6 | 1.1 | 7.1 | 111 | 0.3 | 0.5 | 2.3 |
| 101979 | 1.3 | 47.9 | 15.4 | 220 | 66 | < 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 420 | 40.5 | 79.3 | 9.5 | 33.7 | 5.7 | 4.6 | 0.6 | 3.2 | 40.2 | 0.3 | 0.2 | 1.3 |
| 101980 | 0.9 | 27.0 | 15.0 | 143 | 120 | 1.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 310 | 44.5 | 88.3 | 9.7 | 34.4 | 5.6 | 4.9 | 0.6 | 3.4 | 69.1 | 0.4 | 0.2 | 1.2 |
| 101981 | 1.4 | 36.0 | 18.2 | 233 | 114 | < 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 377 | 35.7 | 74.4 | 8.5 | 29.8 | 5.1 | 4.5 | 0.6 | 3.8 | 75.9 | 0.4 | 0.2 | 1.3 |
| 101982 | 1.8 | 36.9 | 27.6 | 239 | 119 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 556 | 126 | 225 | 27.1 | 90.3 | 13.1 | 9.9 | 1.1 | 6.2 | 110 | 0.6 | 0.4 | 1.9 |
| 101983 | 8.2 | 58.2 | 19.6 | 236 | 140 | 0.2 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1070 | 71.2 | 138 | 15.9 | 56.0 | 9.1 | 7.7 | 0.9 | 4.8 | 56.8 | 0.4 | 0.3 | 1.4 |
| 101984 | 3.0 | 70.9 | 21.1 | 243 | 149 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 680 | 55.9 | 89.2 | 13.0 | 43.5 | 7.3 | 5.8 | 0.8 | 4.2 | 50.3 | 0.4 | 0.3 | 1.5 |
| 101985 | 3.3 | 10.4 | 12.4 | 179 | 212 | 49.7 | 1.1 | < 0.1 | 2 | 0.1 | < 0.1 | 520 | 17.1 | 42.9 | 5.7 | 22.0 | 4.5 | 3.8 | 0.6 | 3.1 | 83.8 | 0.9 | 0.2 | 1.4 |
| 101986 | 3.1 | 72.1 | 14.6 | 305 | 197 | 7.4 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 708 | 31.7 | 63.5 | 7.8 | 27.0 | 4.7 | 3.7 | 0.5 | 2.7 | 26.3 | 0.4 | 0.2 | 1.2 |
| 101987 | 3.0 | 81.1 | 10.9 | 273 | 157 | 3.6 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 687 | 25.7 | 51.5 | 6.0 | 21.0 | 3.6 | 2.8 | 0.4 | 2.1 | 22.8 | 0.3 | 0.2 | 1.0 |
| 101988 | 2.4 | 78.8 | 14.1 | 291 | 177 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 711 | 30.3 | 58.9 | 7.2 | 25.4 | 4.5 | 3.7 | 0.5 | 2.6 | 23.6 | 0.4 | 0.2 | 1.2 |
| 101989 | 1.9 | 78.1 | 13.2 | 313 | 177 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 709 | 32.0 | 62.8 | 7.3 | 24.8 | 4.2 | 3.4 | 0.4 | 2.5 | 17.3 | 0.4 | 0.2 | 1.1 |
| 101990 | 0.8 | 63.0 | 11.6 | 301 | 129 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 596 | 31.4 | 62.3 | 7.3 | 24.9 | 4.1 | 3.0 | 0.4 | 2.3 | 9.3 | 0.4 | 0.2 | 1.0 |
| 101991 | 1.1 | 83.1 | 13.0 | 235 | 28 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 584 | 43.7 | 85.3 | 10.4 | 35.1 | 5.4 | 3.7 | 0.5 | 2.5 | 14.9 | 0.4 | 0.2 | 1.3 |
| 101992 | 1.0 | 66.1 | 14.7 | 269 | 41 | 0.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 550 | 40.4 | 79.0 | 9.7 | 34.1 | 5.9 | 4.6 | 0.6 | 3.0 | 16.2 | 0.4 | 0.2 | 1.3 |
| 101993 | 0.6 | 55.3 | 11.3 | 321 | 124 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 32.6 | 61.6 | 7.2 | 24.0 | 3.8 | 3.0 | 0.4 | 2.1 | 8.5 | 0.3 | 0.2 | 0.9 |
| 101994 | 1.6 | 57.3 | 13.8 | 271 | 18 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 528 | 48.1 | 96.9 | 11.6 | 40.3 | 6.5 | 4.5 | 0.5 | 2.7 | 10.1 | 0.4 | 0.2 | 1.2 |
| 101995 | 2.8 | 22.8 | 8.0 | 218 | 191 | 21.4 | 0.7 | < 0.1 | < 1 | 0.1 | < 0.1 | 539 | 12.8 | 31.1 | 4.0 | 15.2 | 3.0 | 2.5 | 0.4 | 2.0 | 28.1 | 0.7 | 0.2 | 1.0 |
| 101996 | 1.2 | 58.8 | 12.3 | 183 | 139 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 460 | 45.0 | 84.0 | 10.1 | 34.5 | 5.5 | 4.2 | 0.5 | 2.6 | 15.9 | 0.4 | 0.2 | 1.0 |
| 101997 | 1.5 | 65.6 | 14.0 | 276 | 134 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 38.1 | 73.7 | 8.6 | 29.7 | 4.9 | 4.0 | 0.5 | 2.9 | 27.4 | 0.4 | 0.2 | 1.1 |
| 101998 | 0.7 | 49.8 | 14.2 | 263 | 85 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 484 | 42.3 | 83.4 | 10.0 | 34.5 | 5.6 | 4.2 | 0.5 | 2.9 | 23.9 | 0.4 | 0.2 | 1.1 |
| 101999 | 0.7 | 63.8 | 11.8 | 262 | 119 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 504 | 34.7 | 68.4 | 8.2 | 28.7 | 4.6 | 3.4 | 0.4 | 2.3 | 21.8 | 0.4 | 0.2 | 1.0 |
| 102000 | 0.8 | 57.7 | 22.7 | 285 | 46 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 434 | 65.3 | 125 | 15.7 | 55.5 | 9.5 | 7.1 | 0.9 | 4.7 | 113 | 0.5 | 0.3 | 1.8 |
| 100740 | 0.7 | 59.0 | 14.6 | 162 | 53 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 441 | 77.1 | 147 | 19.0 | 68.1 | 10.5 | 7.1 | 0.7 | 3.5 | 39.0 | 0.5 | 0.2 | 1.4 |
| 100741 | 1.1 | 59.5 | 12.1 | 280 | 115 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 594 | 32.9 | 65.9 | 7.5 | 25.9 | 4.5 | 3.7 | 0.5 | 2.5 | 16.5 | 0.6 | 0.2 | 1.0 |
| 100742 | 4.6 | 53.8 | 40.5 | 350 | 305 | 51.4 | 1.1 | 0.1 | 2 | 0.1 | < 0.1 | 949 | 222 | 398 | 45.1 | 148 | 21.0 | 15.1 | 1.8 | 9.3 | 151 | 1.5 | 0.6 | 3.4 |
| 100743 | 0.9 | 19.5 | 14.7 | 148 | 54 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 289 | 45.8 | 91.5 | 11.8 | 44.2 | 7.6 | 6.0 | 0.7 | 3.5 | 53.5 | 0.6 | 0.2 | 1.2 |
| 100744 | 0.9 | 18.4 | 14.3 | 204 | 162 | 34.0 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 381 | 36.0 | 79.3 | 9.7 | 35.5 | 6.3 | 5.1 | 0.7 | 3.8 | 77.8 | 1.6 | 0.2 | 1.4 |
| 100745 | 1.3 | 57.9 | 26.2 | 199 | 142 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 477 | 61.9 | 119 | 15.7 | 57.4 | 9.9 | 7.8 | 1.0 | 5.4 | 143 | 0.5 | 0.4 | 2.0 |
| 100746 | 6.2 | 55.4 | 20.0 | 197 | 48 | 0.4 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 514 | 56.0 | 108 | 13.4 | 47.2 | 8.4 | 7.1 | 0.9 | 4.6 | 54.1 | 0.4 | 0.3 | 1.6 |
| 100747 | 2.6 | 44.0 | 35.8 | 203 | 6 | 0.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 463 | 124 | 236 | 30.5 | 109 | 18.9 | 15.7 | 1.8 | 8.9 | 100 | 0.7 | 0.5 | 2.6 |
| 100748 | 1.3 | 60.8 | 12.8 | 277 | 82 | < 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 547 | 43.6 | 89.7 | 10.0 | 34.6 | 5.6 | 4.6 | 0.5 | 2.8 | 14.1 | 0.4 | 0.2 | 1.0 |
| 100749 | 1.0 | 57.0 | 12.8 | 261 | 105 | 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 534 | 39.4 | 76.9 | 8.9 | 29.6 | 4.9 | 3.9 | 0.5 | 2.7 | 8.3 | 0.4 | 0.2 | 1.0 |
| 100750 | 6.2 | 50.0 | 18.5 | 229 | 70 | 0.3 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 472 | 47.2 | 90.8 | 11.0 | 38.7 | 6.5 | 5.5 | 0.7 | 4.0 | 35.1 | 0.4 | 0.3 | 1.4 |
| 91726 | 4.2 | 82.5 | 15.1 | 309 | 164 | 1.2 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 723 | 32.7 | 65.8 | 7.8 | 26.7 | 4.7 | 3.6 | 0.5 | 2.6 | 29.6 | 0.6 | 0.2 | 1.2 |
| 91727 | 2.0 | < 0.2 | 1.2 | 18.6 | 185 | 34.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 66 | 6.5 | 18.6 | 2.7 | 11.4 | 1.9 | 1.1 | 0.1 | 0.5 | 63.7 | 0.6 | < 0.1 | 0.3 |
| 91728 | 2.7 | 75.0 | 15.5 | 284 | 187 | 0.9 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 683 | 34.7 | 68.5 | 8.2 | 28.2 | 5.0 | 4.2 | 0.5 | 3.1 | 40.1 | 0.4 | 0.2 | 1.3 |
| 91729 | 1.5 | 48.9 | 16.5 | 203 | 126 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 434 | 50.1 | 98.5 | 11.8 | 41.3 | 7.2 | 5.3 | 0.7 | 3.5 | 57.3 | 0.4 | 0.2 | 1.3 |
| 91730 | 1.2 | 44.6 | 16.9 | 141 | 36 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 374 | 54.7 | 103 | 12.4 | 43.3 | 7.3 | 6.4 | 0.8 | 4.0 | 81.7 | 0.4 | 0.3 | 1.4 |
| 91731 | 0.8 | 28.9 | 13.8 | 159 | 32 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 348 | 50.2 | 101 | 11.2 | 39.4 | 6.6 | 5.5 | 0.7 | 3.3 | 63.6 | 0.4 | 0.2 | 1.2 |
| 91732 | 1.0 | 56.3 | 21.2 | 152 | 79 | 2.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 394 | 61.6 | 115 | 14.3 | 49.7 | 8.6 | 7.4 | 0.9 | 4.8 | 106 | 0.6 | 0.3 | 1.7 |
| 91733 | 0.8 | 55.6 | 19.6 | 134 | 75 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 352 | 61.1 | 115 | 14.0 | 49.5 | 8.1 | 7.0 | 0.9 | 4.4 | 105 | 0.6 | 0.3 | 1.5 |
| 91734 | 0.8 | 51.0 | 14.6 | 156 | 88 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 399 | 70.2 | 132 | 15.8 | 52.6 | 8.0 | 5.7 | 0.6 | 3.3 | 54.8 | 0.6 | 0.2 | 1.1 |
| 91735 | 0.9 | 40.4 | 13.9 | 131 | 102 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 319 | 61.3 | 119 | 14.7 | 50.9 | 8.1 | 5.3 | 0.6 | 3.0 | 67.2 | 0.6 | 0.2 | 1.2 |
| 91736 | 0.6 | 55.1 | 13.1 | 155 | 163 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 371 | 40.7 | 81.0 | 10.0 | 35.8 | 5.6 | 4.2 | 0.5 | 2.6 | 22.5 | 0.5 | 0.2 | 1.4 |
| 91737 | 0.9 | 37.6 | 11.8 | 241 | 136 | 12.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 522 | 28.3 | 57.9 | 7.0 | 25.2 | 4.5 | 3.8 | 0.5 | 2.7 | 39.2 | 0.7 | 0.2 | 1.1 |
| 91738 | 2.5 | 39.4 | 21.5 | 179 | 244 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 353 | 65.8 | 127 | 15.6 | 54.5 | 8.8 | 6.6 | 0.8 | 4.1 | 68.6 | 0.5 | 0.3 | 1.8 |
| 91739 | 3.1 | 67.2 | 14.3 | 288 | 45 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 742 | 32.9 | 64.1 | 7.6 | 26.9 | 4.7 | 4.0 | 0.5 | 2.9 | 26.6 | 0.4 | 0.2 | 1.2 |
| 91740 | 1.1 | 43.5 | 27.2 | 164 | 27 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 68.8 | 131 | 16.2 | 56.1 | | | | | | | | |

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| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91742 | 1.0 | 38.5 | 15.5 | 157 | 114 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 334 | 55.0 | 104 | 12.8 | 43.8 | 7.0 | 5.2 | 0.6 | 3.2 | 16.6 | 0.5 | 0.2 | 1.3 |
| 91743 | 0.7 | 32.9 | 18.8 | 125 | 108 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 342 | 62.5 | 119 | 14.5 | 50.6 | 8.8 | 7.6 | 0.9 | 4.7 | 38.6 | 0.6 | 0.3 | 1.4 |
| 91744 | 1.1 | 59.4 | 15.1 | 148 | 90 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 395 | 60.1 | 115 | 14.0 | 47.6 | 7.2 | 5.3 | 0.6 | 3.2 | 47.9 | 0.6 | 0.2 | 1.2 |
| 91745 | 1.2 | 67.6 | 29.7 | 120 | 102 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 358 | 168 | 303 | 35.1 | 114 | 17.0 | 12.1 | 1.4 | 7.0 | 133 | 0.8 | 0.4 | 2.1 |
| 91746 | 1.6 | 46.5 | 32.5 | 213 | 130 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 407 | 98.6 | 185 | 22.4 | 78.4 | 12.6 | 9.5 | 1.2 | 6.7 | 82.3 | 0.8 | 0.4 | 2.4 |
| 91747 | 0.9 | 64.8 | 14.7 | 248 | 46 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 837 | 49.3 | 94.5 | 11.6 | 41.1 | 6.7 | 4.8 | 0.6 | 3.0 | 39.5 | 0.5 | 0.2 | 1.3 |
| 91748 | 1.9 | 6.0 | 9.7 | 109 | 229 | 53.5 | 1.1 | < 0.1 | 1 | < 0.1 | < 0.1 | 280 | 59.0 | 121 | 15.1 | 53.6 | 9.3 | 7.3 | 0.8 | 3.5 | 85.6 | 1.0 | 0.2 | 1.2 |
| 91749 | 0.8 | 36.8 | 20.1 | 137 | 115 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 278 | 60.2 | 114 | 13.7 | 48.7 | 8.7 | 7.6 | 1.0 | 5.0 | 50.0 | 0.5 | 0.3 | 1.6 |
| 91750 | 0.5 | 68.8 | 22.5 | 150 | 34 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 341 | 53.0 | 102 | 12.5 | 43.5 | 7.9 | 6.8 | 0.9 | 4.7 | 118 | 0.5 | 0.3 | 1.8 |
| 91815 | 1.9 | 49.7 | 41.3 | 263 | 10 | 3.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 430 | 193 | 296 | 38.2 | 129 | 19.2 | 15.8 | 1.9 | 9.6 | 119 | 0.9 | 0.5 | 2.5 |
| 91816 | 1.5 | 40.9 | 64.7 | 477 | 5 | 0.6 | 0.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 510 | 244 | 398 | 47.2 | 155 | 26.3 | 22.9 | 3.0 | 16.1 | 228 | 1.0 | 0.9 | 4.4 |
| 91817 | 1.7 | 99.5 | 30.6 | 374 | 213 | 1.6 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 839 | 99.4 | 192 | 23.2 | 81.7 | 13.8 | 11.2 | 1.4 | 7.0 | 67.2 | 0.9 | 0.5 | 2.5 |
| 91818 | 0.9 | 57.7 | 14.4 | 226 | 111 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 40.8 | 78.0 | 9.2 | 32.7 | 5.7 | 4.8 | 0.6 | 3.1 | 20.6 | 0.6 | 0.2 | 1.2 |
| 91819 | 1.2 | 32.9 | 60.2 | 175 | 232 | 0.3 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 347 | 103 | 210 | 24.3 | 90.1 | 17.6 | 18.7 | 2.6 | 14.4 | 67.4 | 0.8 | 0.8 | 4.3 |
| 91820 | 6.4 | 69.3 | 10.8 | 217 | 49 | < 0.1 | 1.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 39.5 | 74.8 | 8.4 | 28.6 | 4.6 | 3.5 | 0.4 | 2.3 | 17.5 | 0.4 | 0.2 | 1.0 |
| 91821 | 3.6 | 13.9 | 20.7 | 158 | 227 | 63.3 | 2.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 497 | 37.8 | 79.5 | 10.5 | 37.8 | 7.0 | 6.1 | 0.9 | 5.1 | 104 | 1.2 | 0.4 | 2.0 |
| 91822 | 1.9 | 76.7 | 26.1 | 216 | 49 | 1.7 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 553 | 71.8 | 137 | 16.9 | 58.6 | 9.8 | 7.5 | 0.9 | 5.3 | 45.1 | 0.6 | 0.4 | 2.1 |
| 91823 | 2.5 | 70.7 | 28.2 | 212 | 30 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 537 | 63.8 | 122 | 15.9 | 57.1 | 10.2 | 7.9 | 1.0 | 5.7 | 60.4 | 0.6 | 0.4 | 2.4 |
| 91824 | 8.2 | 50.0 | 23.3 | 197 | 87 | 1.2 | 1.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 482 | 58.0 | 134 | 14.3 | 49.6 | 8.5 | 7.0 | 0.9 | 5.1 | 29.0 | 0.6 | 0.3 | 1.8 |
| 91825 | 3.3 | 82.9 | 19.8 | 254 | 72 | 0.1 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 652 | 43.8 | 84.1 | 10.5 | 36.4 | 6.4 | 5.2 | 0.7 | 3.9 | 36.7 | 0.6 | 0.3 | 1.7 |
| 92236 | 2.0 | 42.5 | 23.3 | 301 | 30 | 0.4 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 464 | 52.2 | 111 | 11.8 | 41.0 | 7.1 | 6.1 | 0.8 | 4.8 | 26.6 | 0.5 | 0.3 | 1.7 |
| 92237 | 1.5 | 44.1 | 37.7 | 307 | 16 | 0.3 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 515 | 98.8 | 170 | 23.2 | 80.9 | 13.7 | 10.9 | 1.4 | 8.0 | 34.8 | 0.7 | 0.5 | 2.4 |
| 92238 | 1.7 | 43.4 | 19.9 | 281 | 24 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 455 | 44.1 | 87.5 | 10.0 | 34.5 | 5.9 | 5.0 | 0.7 | 4.0 | 31.0 | 0.5 | 0.3 | 1.4 |
| 92239 | 1.2 | 46.3 | 22.3 | 276 | 19 | 1.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 48.4 | 97.6 | 10.8 | 38.3 | 6.5 | 5.6 | 0.8 | 4.6 | 39.6 | 0.4 | 0.3 | 1.7 |
| 92240 | 2.2 | 11.4 | 16.5 | 229 | 161 | 24.8 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 512 | 28.6 | 62.7 | 7.5 | 27.7 | 5.2 | 4.6 | 0.7 | 3.9 | 39.3 | 0.6 | 0.3 | 1.5 |
| 92241 | 2.2 | 63.8 | 36.7 | 258 | 58 | 4.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 638 | 110 | 206 | 25.4 | 89.5 | 15.3 | 12.8 | 1.6 | 8.5 | 68.2 | 0.6 | 0.5 | 2.7 |
| 92242 | 2.3 | 58.8 | 41.7 | 261 | 63 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 660 | 146 | 266 | 31.9 | 112 | 18.5 | 15.9 | 1.9 | 10.0 | 70.4 | 0.7 | 0.5 | 2.8 |
| 92243 | 2.1 | 54.1 | 46.6 | 278 | 8 | 1.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 673 | 149 | 262 | 34.5 | 121 | 19.9 | 17.0 | 2.1 | 11.1 | 86.1 | 0.8 | 0.6 | 3.0 |
| 92244 | 1.5 | 22.8 | 28.1 | 336 | 83 | 0.4 | 0.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 354 | 96.5 | 168 | 18.3 | 60.1 | 9.5 | 8.0 | 1.1 | 6.3 | 48.3 | 0.6 | 0.3 | 1.7 |
| 92245 | 0.8 | 48.7 | 19.0 | 373 | 92 | 7.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 655 | 46.5 | 90.2 | 10.7 | 37.1 | 6.1 | 4.8 | 0.6 | 3.9 | 14.3 | 0.5 | 0.3 | 1.6 |
| 92246 | 0.8 | 39.3 | 23.9 | 218 | 73 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 39.9 | 80.6 | 9.4 | 34.6 | 6.8 | 6.4 | 0.9 | 5.3 | 21.4 | 0.5 | 0.3 | 1.8 |
| 92247 | 1.8 | 45.8 | 42.1 | 351 | 125 | 2.4 | 0.3 | < 0.1 | < 1 | 0.2 | < 0.1 | 628 | 106 | 194 | 24.4 | 88.6 | 15.9 | 13.9 | 1.8 | 10.0 | 63.6 | 0.7 | 0.5 | 2.8 |
| 92248 | 1.7 | 42.2 | 37.1 | 285 | 55 | 1.1 | 4.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 779 | 80.0 | 129 | 18.0 | 65.4 | 12.1 | 10.7 | 1.4 | 7.8 | 65.1 | 0.5 | 0.5 | 2.6 |
| 92249 | 2.1 | 49.2 | 56.2 | 266 | 37 | 0.4 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 744 | 146 | 263 | 33.8 | 118 | 20.4 | 18.4 | 2.4 | 13.1 | 70.8 | 0.7 | 0.7 | 3.8 |
| 92250 | 1.7 | 16.9 | 20.7 | 182 | 247 | 72.6 | 1.1 | < 0.1 | 2 | < 0.1 | < 0.1 | 569 | 41.6 | 82.7 | 11.0 | 39.6 | 7.4 | 6.3 | 0.9 | 5.0 | 24.1 | 1.1 | 0.3 | 1.8 |
| 92251 | 1.2 | 69.0 | 36.2 | 299 | 20 | 18.9 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 647 | 98.8 | 164 | 20.9 | 70.6 | 11.7 | 10.0 | 1.4 | 8.0 | 46.3 | 0.6 | 0.5 | 2.3 |
| 92252 | 4.4 | 57.6 | 189 | 418 | 32 | 38.9 | 6.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 1280 | 607 | 768 | 124 | 449 | 76.0 | 63.3 | 8.2 | 44.7 | 62.1 | 1.6 | 2.3 | 11.2 |
| 92253 | 2.3 | 39.1 | 54.0 | 303 | 89 | 22.5 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 662 | 182 | 432 | 45.2 | 160 | 26.7 | 20.0 | 2.5 | 13.2 | 66.0 | 0.9 | 0.7 | 3.9 |
| 92254 | 2.0 | 55.9 | 38.1 | 204 | 105 | 0.6 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 724 | 116 | 222 | 27.4 | 97.1 | 17.5 | 14.7 | 1.8 | 9.5 | 79.2 | 0.7 | 0.6 | 3.0 |
| 92255 | 3.9 | 56.2 | 52.3 | 231 | 156 | 3.6 | 1.5 | < 0.1 | 2 | 0.1 | < 0.1 | 772 | 180 | 330 | 42.6 | 153 | 26.3 | 22.3 | 2.7 | 13.9 | 74.8 | 0.9 | 0.7 | 3.8 |
| 92256 | 3.3 | 61.7 | 59.6 | 227 | 176 | 8.3 | 2.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 687 | 184 | 329 | 43.6 | 153 | 25.6 | 21.4 | 2.7 | 14.1 | 88.7 | 0.9 | 0.7 | 3.8 |
| 92257 | 3.4 | 59.1 | 34.4 | 278 | 160 | 10.5 | 5.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 598 | 127 | 233 | 30.0 | 103 | 16.2 | 11.9 | 1.4 | 7.5 | 118 | 0.6 | 0.4 | 2.2 |
| 92258 | 2.9 | 65.3 | 36.4 | 356 | 147 | 2.4 | 2.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 590 | 201 | 345 | 39.0 | 130 | 19.6 | 15.9 | 1.8 | 8.8 | 101 | 0.8 | 0.5 | 2.6 |
| 92259 | 2.5 | 77.1 | 37.5 | 258 | 155 | 3.1 | 1.1 | < 0.1 | 1 | < 0.1 | < 0.1 | 602 | 192 | 330 | 38.4 | 129 | 19.3 | 15.8 | 1.8 | 9.0 | 109 | 0.9 | 0.5 | 2.7 |
| 92260 | 1.1 | 6.8 | 42.9 | 88.5 | 149 | 26.5 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 435 | 145 | 228 | 36.4 | 135 | 22.9 | 18.0 | 2.0 | 9.7 | 126 | 0.9 | 0.6 | 3.0 |
| 92261 | 1.6 | 41.2 | 44.4 | 239 | 24 | 5.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 574 | 719 | 1100 | 103 | 302 | 33.7 | 27.9 | 2.7 | 12.4 | 45.6 | 1.1 | 0.6 | 2.9 |
| 92262 | 2.3 | 38.3 | 55.8 | 390 | < 1 | 0.4 | 4.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 623 | 217 | 392 | 50.8 | 183 | 29.5 | 24.6 | 2.9 | 14.4 | 61.9 | 0.8 | 0.7 | 3.9 |
| 92263 | 0.8 | 58.3 | 33.2 | 218 | 5 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 495 | 77.0 | 128 | 17.9 | 63.8 | 11.8 | 10.6 | 1.4 | 7.3 | 55.5 | 0.5 | 0.4 | 2.5 |
| 92264 | 1.9 | 78.3 | 39.5 | 185 | 56 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 517 | 116 | 223 | 27.0 | 93.8 | 15.9 | 13.5 | 1.8 | 9.3 | 69.1 | 0.6 | 0.6 | 2.9 |
| 92265 | 3.8 | 49.9 | 40.3 | 225 | 125 | 1.1 | 9.5 | 0.1 | 2 | < 0.1 | < 0.1 | 427 | 146 | 223 | 30.2 | 111 | 18.6 | 14.6 | 1.7 | 9.1 | 45.0 | 0.7 | 0.5 | 2.8 |
| 92266 | 5.2 | 8.5 | 349 | 388 | 9 | 54.0 | 6.0 | 3.2 | 19 | 0.4 | 0.4 | 325 | 2230 | 5100 | 685 | 3130 | > 100 | 490 | 42.8 | 145 | 29.9 | 9.8 | 3.0 | 12.6 |
| 92267 | 3.3 | 64.9 | 68.8 | 304 | 1 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92268 | 1.6 | 38.7 | 32.8 | 250 | 129 | 1.0 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 557 | 114 | 190 | 24.8 | 85.5 | 14.0 | 10.1 | 1.3 | 7.0 | 70.8 | 0.7 | 0.5 | 2.7 |
| 92340 | 4.6 | 30.0 | 37.2 | 288 | 64 | 4.8 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 552 | 104 | 170 | 25.1 | 91.8 | 15.9 | 12.8 | 1.6 | 8.2 | 65.3 | 0.6 | 0.5 | 2.4 |
| 92341 | 2.1 | 33.3 | 30.5 | 232 | 8 | 1.0 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 686 | 65.8 | 122 | 15.6 | 57.5 | 10.6 | 9.0 | 1.2 | 6.3 | 89.5 | 0.5 | 0.4 | 2.2 |
| 92342 | 1.7 | 23.2 | 17.2 | 243 | 48 | 24.5 | 7.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 848 | 34.0 | 64.3 | 8.0 | 28.5 | 5.1 | 4.3 | 0.6 | 3.4 | 40.6 | 0.3 | 0.3 | 1.4 |
| 92343 | 0.8 | 47.1 | 27.1 | 313 | 36 | 0.9 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 56.0 | 102 | 13.3 | 48.9 | 9.2 | 8.3 | 1.1 | 6.0 | 33.3 | 0.4 | 0.4 | 2.0 |
| 92344 | 1.4 | 61.8 | 27.1 | 244 | 33 | 1.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 648 | 80.4 | 137 | 17.8 | 63.4 | 11.5 | 10.0 | 1.2 | 6.5 | 58.0 | 0.5 | 0.4 | 2.2 |
| 92345 | 1.4 | 53.7 | 21.0 | 254 | 88 | 1.1 | 1.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 576 | 68.8 | 128 | 13.6 | 45.9 | 7.1 | 6.2 | 0.8 | 4.7 | 25.4 | 0.6 | 0.3 | 1.7 |
| 92346 | 1.5 | 66.1 | 32.4 | 250 | 96 | 1.0 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 671 | 97.9 | 184 | 22.4 | 78.4 | 13.2 | 10.4 | 1.4 | 7.3 | 64.9 | 0.7 | 0.4 | 2.2 |
| 92347 | 2.7 | 65.7 | 48.6 | 288 | 144 | 7.0 | 1.1 | < 0.1 | 2 | < 0.1 | < 0.1 | 750 | 160 | 293 | 37.4 | 132 | 22.2 | 18.0 | 2.2 | 11.3 | 97.7 | 0.8 | 0.6 | 3.4 |
| 92348 | 1.7 | 60.6 | 33.7 | 273 | 81 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 682 | 109 | 199 | 24.5 | 87.0 | 14.8 | 12.7 | 1.6 | 8.2 | 65.7 | 0.6 | 0.4 | 2.3 |
| 92349 | 0.4 | 19.2 | 16.3 | 335 | 17 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 376 | 23.2 | 52.8 | 6.3 | 24.7 | 5.2 | 4.7 | 0.7 | 3.6 | 25.4 | 0.4 | 0.2 | 1.1 |
| 92350 | 1.8 | 20.4 | 43.7 | 371 | 92 | 98.7 | 2.5 | < 0.1 | 2 | < 0.1 | < 0.1 | 563 | 102 | 180 | 22.5 | 80.3 | 14.4 | 13.2 | 1.7 | 9.2 | 101 | 0.9 | 0.5 | 2.9 |
| 92204 | 1.3 | 65.7 | 35.2 | 195 | 9 | 7.0 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 518 | 125 | 213 | 28.0 | 97.2 | 16.5 | 13.8 | 1.7 | 8.7 | 63.3 | 0.6 | 0.5 | 2.4 |
| 92205 | 1.4 | 50.7 | 33.3 | 188 | 21 | 2.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 557 | 122 | 247 | 27.3 | 94.5 | 15.9 | 13.3 | 1.6 | 8.5 | 44.0 | 0.7 | 0.5 | 2.4 |
| 92206 | 2.4 | 70.8 | 68.7 | 285 | 57 | 0.9 | 1.0 | 0.2 | 2 | < 0.1 | < 0.1 | 932 | 315 | 598 | 68.6 | 236 | 37.3 | 29.8 | 3.6 | 18.0 | 52.6 | 1.0 | 0.9 | 4.1 |
| 92207 | 1.4 | 28.1 | 39.9 | 308 | 18 | 0.3 | 2.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 381 | 118 | 179 | 27.5 | 95.1 | 15.8 | 12.8 | 1.6 | 8.7 | 68.7 | 0.5 | 0.5 | 2.4 |
| 92208 | 5.4 | 9.4 | 143 | 506 | < 1 | 2.9 | 6.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 373 | 728 | 1130 | 160 | 586 | 98.5 | 77.7 | 8.3 | 38.7 | 213 | 1.8 | 1.4 | 6.4 |
| 92209 | 3.8 | 41.4 | 81.9 | 278 | 12 | 1.4 | 3.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 687 | 324 | 645 | 79.8 | 295 | 50.3 | 41.3 | 4.7 | 22.6 | 50.7 | 1.0 | 1.1 | 5.6 |
| 92210 | 1.2 | 43.8 | 32.9 | 201 | 82 | 0.8 | 2.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 398 | 107 | 171 | 23.3 | 83.0 | 14.7 | 13.3 | 1.6 | 8.0 | 98.5 | 0.6 | 0.4 | 2.3 |
| 92211 | 1.0 | 68.3 | 37.9 | 241 | 117 | 1.4 | 1.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 573 | 136 | 285 | 28.6 | 98.2 | 15.5 | 12.6 | 1.6 | 8.8 | 137 | 0.7 | 0.5 | 2.7 |
| 92212 | 2.4 | 43.8 | 54.7 | 193 | 162 | 0.6 | 3.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 681 | 210 | 375 | 47.9 | 169 | 27.7 | 21.7 | 2.5 | 12.8 | 260 | 0.9 | 0.6 | 3.4 |
| 92213 | 1.9 | 11.3 | 11.5 | 158 | 279 | 79.5 | 2.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 541 | 35.4 | 79.0 | 9.0 | 33.0 | 5.7 | 4.9 | 0.6 | 3.4 | 33.8 | 1.0 | 0.2 | 1.4 |
| 92214 | 2.0 | 37.4 | 55.6 | 204 | 16 | 19.3 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 659 | 308 | 640 | 76.8 | 258 | 38.3 | 29.3 | 3.2 | 15.3 | 105 | 1.1 | 0.7 | 3.8 |
| 92215 | 2.4 | 27.6 | 119 | 243 | 19 | 24.2 | 15.9 | 0.8 | 9 | 0.1 | < 0.1 | 812 | 1190 | 2000 | 229 | 841 | > 100 | 119 | 11.8 | 45.3 | 41.1 | 2.5 | 1.1 | 5.0 |
| 92216 | 1.6 | 42.1 | 32.6 | 239 | 3 | 4.8 | 0.5 | 0.1 | 1 | < 0.1 | < 0.1 | 648 | 178 | 315 | 35.8 | 122 | 18.8 | 15.1 | 1.8 | 8.9 | 15.9 | 0.7 | 0.5 | 2.7 |
| 92217 | 1.3 | 47.7 | 39.9 | 258 | 60 | 4.1 | 1.0 | < 0.1 | 2 | < 0.1 | < 0.1 | 783 | 150 | 314 | 35.2 | 126 | 22.4 | 19.1 | 2.3 | 11.2 | 28.1 | 0.8 | 0.6 | 3.0 |
| 92218 | 3.7 | 58.1 | 62.5 | 218 | 76 | 0.6 | 0.3 | 0.1 | 1 | < 0.1 | < 0.1 | 900 | 188 | 311 | 43.5 | 161 | 29.4 | 26.9 | 3.3 | 16.6 | 129 | 0.9 | 0.8 | 4.2 |
| 92219 | 11.7 | 58.8 | 127 | 522 | 208 | 84.7 | 8.2 | 0.3 | 4 | 0.3 | < 0.1 | 862 | 583 | 1030 | 117 | 419 | 71.1 | 63.7 | 7.6 | 36.7 | 50.1 | 1.4 | 1.6 | 7.9 |
| 92220 | 4.5 | 50.3 | 45.5 | 237 | 72 | 4.3 | 1.9 | 0.1 | 2 | < 0.1 | < 0.1 | 713 | 138 | 250 | 31.9 | 112 | 19.4 | 16.6 | 2.1 | 10.9 | 104 | 0.7 | 0.6 | 3.0 |
| 92221 | 2.3 | 49.0 | 46.5 | 265 | 10 | 0.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 617 | 165 | 259 | 37.1 | 129 | 21.1 | 17.9 | 2.2 | 11.4 | 71.3 | 0.7 | 0.6 | 3.0 |
| 92222 | 2.9 | 4.0 | 19.2 | 222 | 193 | 62.1 | 1.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 467 | 46.0 | 122 | 15.6 | 60.2 | 10.1 | 7.8 | 1.0 | 5.6 | 32.3 | 0.9 | 0.3 | 1.7 |
| 92223 | 1.4 | 22.1 | 77.0 | 279 | 33 | 34.1 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 507 | 257 | 400 | 65.1 | 242 | 41.7 | 34.2 | 4.0 | 19.3 | 62.8 | 1.0 | 1.0 | 5.0 |
| 92224 | 0.8 | 28.8 | 19.7 | 314 | 36 | 0.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 471 | 44.4 | 84.2 | 9.8 | 35.3 | 6.0 | 5.7 | 0.8 | 4.6 | 17.1 | 0.4 | 0.3 | 1.6 |
| 92225 | 0.4 | 35.7 | 27.1 | 180 | 12 | 2.6 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 38.7 | 80.7 | 11.2 | 45.3 | 9.6 | 9.1 | 1.3 | 6.7 | 25.1 | 0.5 | 0.4 | 2.1 |
| 92226 | 1.8 | 0.8 | 7.4 | 163 | 8 | 1.2 | 10.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 348 | 15.5 | 22.5 | 3.2 | 12.3 | 2.2 | 2.1 | 0.3 | 1.3 | 60.2 | 0.2 | < 0.1 | 0.5 |
| 92227 | 2.5 | 53.6 | 46.8 | 329 | 105 | 1.0 | 2.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 757 | 160 | 313 | 38.5 | 142 | 24.9 | 20.6 | 2.5 | 12.2 | 68.8 | 0.6 | 0.6 | 3.1 |
| 92228 | 0.8 | 3.4 | 8.4 | 142 | 19 | 4.7 | 20.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 81 | 19.8 | 26.3 | 4.4 | 15.9 | 2.9 | 2.6 | 0.3 | 1.7 | 65.4 | 0.2 | 0.1 | 0.7 |
| 92229 | 0.5 | 45.4 | 24.9 | 249 | 6 | 0.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 559 | 72.9 | 146 | 16.8 | 59.2 | 10.5 | 9.3 | 1.2 | 5.9 | 38.8 | 0.5 | 0.4 | 1.9 |
| 92230 | 0.5 | 12.3 | 14.6 | 218 | 24 | 0.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 206 | 19.7 | 41.0 | 5.1 | 19.1 | 3.8 | 3.7 | 0.6 | 3.2 | 42.7 | 0.5 | 0.2 | 1.1 |
| 92231 | 0.5 | 35.2 | 18.8 | 258 | 35 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 503 | 58.3 | 113 | 13.4 | 46.7 | 7.7 | 5.8 | 0.8 | 4.1 | 28.2 | 0.4 | 0.3 | 1.4 |
| 92232 | 0.9 | 37.9 | 21.8 | 235 | 70 | 1.6 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 723 | 60.1 | 107 | 14.0 | 51.4 | 8.9 | 7.6 | 1.0 | 4.9 | 47.0 | 0.4 | 0.3 | 1.6 |
| 92233 | 0.9 | 48.9 | 28.2 | 255 | 45 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 681 | 65.3 | 131 | 15.2 | 55.8 | 10.5 | 9.6 | 1.3 | 6.9 | 35.8 | 0.4 | 0.4 | 2.0 |
| 92234 | 0.7 | 9.3 | 14.9 | 220 | 3 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 525 | 15.8 | 29.6 | 4.2 | 16.6 | 3.3 | 3.2 | 0.4 | 2.6 | 42.2 | 0.3 | 0.2 | 1.3 |
| 92235 | 0.7 | 36.5 | 31.8 | 258 | 23 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 418 | 67.4 | 136 | 15.9 | 58.6 | 10.6 | 9.2 | 1.2 | 6.9 | 43.3 | 0.5 | 0.4 | 2.3 |
| 92269 | 1.8 | 46.2 | 50.5 | 215 | 91 | 0.5 | 0.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 540 | 210 | 368 | 51.7 | 187 | 30.8 | 21.8 | 2.6 | 12.1 | 78.6 | 0.8 | 0.6 | 3.4 |
| 92270 | 1.3 | 63.4 | 114 | 342 | 12 | 0.2 | 0.5 | 0.1 | < 1 | < 0.1 | < 0.1 | 1260 | 438 | 507 | 102 | 364 | 59.7 | 44.9 | 5.5 | 27.5 | 131 | 1.2 | 1.4 | 7.3 |
| 92271 | 2.7 | 79.7 | 46.2 | 205 | 129 | 0.6 | 1.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 634 | 158 | 301 | 39.9 | 142 | 23.7 | 18.9 | 2.2 | 10.7 | 93.8 | 0.8 | 0.6 | 3.3 |
| 92272 | 3.5 | 62.5 | 74.6 | 251 | 120 | 2.5 | 2.2 | 0.2 | 3 | < 0.1 | < 0.1 | 576 | 219 | 456 | 67.3 | 262 | 46.0 | 36.3 | 4.4 | 20.7 | 61.4 | 1.1 | 0.9 | 4.2 |
| 92273 | 2.2 | 67.9 | 40.3 | 247 | 152 | 2.0 | 2.2 | < 0.1 | 2 | 0.2 | < 0.1 | 633 | 213 | 393 | 48.0 | 163 | 25.6 | 20.1 | 2.2 | 10.5 | 61.5 | 0.9 | 0.5 | 2.9 |
| 92274 | 1.6 | 72.9 | 24.9 | 244 | 79 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 655 | 80.1 | 153 | 19.6 | 70.4 | 12.3 | 9.8 | 1.2 | 5.8 | 64.5 | 0.6 | 0.3 | 2.0 |
| 92275 | 1.4 | 65.8 | 15.9 | 173 | 81 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 581 | 59.0 | 126 | 13.4 | 49.3 | 8.1 | 7.1 | 0.8 | 4.1 | 42.3 | 0.6 | 0.2 | 1.4 |
| 100726 | 0.8 | 10.2 | 7.6 | 77.2 | 143 | 14.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 367 | 50.5 | 107 | 1 | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 100727 | 0.8 | 54.2 | 20.2 | 243 | 108 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 67.3 | 127 | 15.0 | 52.1 | 8.6 | 6.8 | 0.8 | 4.4 | 38.0 | 0.5 | 0.3 | 1.4 |
| 100728 | 0.5 | 66.7 | 25.7 | 112 | 38 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 96.2 | 173 | 21.6 | 77.4 | 12.6 | 10.2 | 1.2 | 6.3 | 156 | 0.6 | 0.4 | 2.2 |
| 100729 | 0.5 | 58.8 | 27.9 | 126 | 51 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 421 | 120 | 232 | 24.9 | 88.7 | 12.6 | 9.7 | 1.1 | 6.4 | 128 | 0.4 | 0.4 | 2.3 |
| 100730 | 0.7 | 52.3 | 15.0 | 146 | 74 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 505 | 55.7 | 107 | 12.6 | 45.1 | 7.7 | 6.3 | 0.7 | 3.6 | 60.5 | 0.5 | 0.2 | 1.3 |
| 100731 | 0.8 | 60.3 | 18.5 | 257 | 87 | 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 584 | 55.0 | 104 | 12.8 | 47.0 | 8.3 | 6.9 | 0.9 | 4.4 | 51.3 | 0.7 | 0.3 | 1.6 |
| 100732 | 1.1 | 42.3 | 32.0 | 140 | 114 | 1.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 436 | 87.0 | 146 | 20.3 | 75.2 | 13.3 | 11.6 | 1.5 | 7.8 | 185 | 0.7 | 0.5 | 2.5 |
| 100733 | 6.2 | 15.1 | 19.6 | 76.0 | 154 | 2.4 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 231 | 32.7 | 73.7 | 8.2 | 31.1 | 6.0 | 5.9 | 0.8 | 4.6 | 70.7 | 0.8 | 0.3 | 1.8 |
| 100734 | 1.8 | 52.2 | 33.4 | 133 | 78 | 0.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 556 | 83.5 | 144 | 20.0 | 71.8 | 12.5 | 11.0 | 1.4 | 7.6 | 210 | 0.6 | 0.5 | 2.4 |
| 100735 | 2.1 | 16.4 | 14.0 | 121 | 153 | 49.3 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 376 | 27.7 | 64.6 | 8.1 | 29.6 | 5.4 | 4.8 | 0.7 | 3.7 | 146 | 1.0 | 0.2 | 1.3 |
| 100736 | 1.7 | 61.6 | 16.4 | 288 | 164 | 3.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 633 | 41.7 | 82.2 | 10.2 | 36.9 | 6.6 | 5.0 | 0.6 | 3.4 | 36.5 | 0.5 | 0.2 | 1.3 |
| 100737 | 7.4 | 58.6 | 14.3 | 101 | 72 | 0.4 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 384 | 62.0 | 126 | 15.5 | 55.1 | 8.1 | 5.4 | 0.6 | 3.1 | 81.8 | 0.5 | 0.2 | 1.2 |
| 100738 | 0.8 | 57.3 | 24.2 | 169 | 72 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 433 | 71.2 | 140 | 16.5 | 62.7 | 10.7 | 8.1 | 1.0 | 5.5 | 160 | 0.5 | 0.3 | 2.0 |
| 100739 | 2.1 | 53.7 | 15.1 | 293 | 193 | 0.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 591 | 41.2 | 83.5 | 10.1 | 36.2 | 6.4 | 4.9 | 0.6 | 3.1 | 29.2 | 0.7 | 0.2 | 1.3 |
| 91924 | 1.6 | 47.6 | 33.1 | 238 | 110 | 0.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 630 | 82.5 | 153 | 21.2 | 77.0 | 13.4 | 11.0 | 1.4 | 7.2 | 151 | 0.7 | 0.5 | 2.5 |
| 91925 | 1.7 | 61.7 | 29.2 | 215 | 98 | 0.5 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 769 | 75.3 | 122 | 18.7 | 69.6 | 12.2 | 10.1 | 1.2 | 6.4 | 118 | 0.7 | 0.4 | 2.2 |
| 91926 | 1.8 | 53.4 | 30.5 | 306 | 101 | 1.8 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 795 | 89.7 | 167 | 22.2 | 81.0 | 13.8 | 11.1 | 1.4 | 6.9 | 117 | 0.7 | 0.4 | 2.3 |
| 91927 | 1.2 | 36.4 | 29.5 | 225 | 89 | 0.3 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 624 | 106 | 207 | 23.9 | 85.1 | 14.4 | 11.9 | 1.5 | 7.6 | 78.9 | 0.6 | 0.4 | 2.1 |
| 91928 | 1.7 | 15.7 | 50.7 | 315 | 177 | 7.0 | 2.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 580 | 152 | 363 | 41.0 | 153 | 27.0 | 21.2 | 2.7 | 14.4 | 48.4 | 1.1 | 0.8 | 3.9 |
| 91929 | 1.8 | 11.7 | 87.3 | 424 | 13 | 2.1 | 2.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 689 | 292 | 558 | 70.3 | 263 | 44.2 | 37.6 | 4.5 | 22.1 | 45.1 | 1.0 | 1.2 | 6.0 |
| 91930 | 0.7 | 21.0 | 19.6 | 114 | 51 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 322 | 68.8 | 119 | 17.1 | 64.0 | 11.4 | 8.8 | 1.0 | 4.6 | 86.4 | 0.5 | 0.3 | 1.5 |
| 91931 | 1.1 | 64.6 | 18.1 | 200 | 60 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 581 | 47.0 | 84.2 | 11.2 | 39.9 | 7.1 | 6.0 | 0.8 | 4.1 | 42.0 | 0.6 | 0.3 | 1.5 |
| 91932 | 6.8 | 9.8 | 134 | 637 | 14 | 32.0 | 26.9 | 0.3 | 4 | 0.1 | < 0.1 | 725 | 774 | 1680 | 196 | 738 | > 100 | 92.2 | 10.4 | 45.2 | 210 | 2.2 | 1.5 | 6.1 |
| 91933 | 1.2 | 50.6 | 41.7 | 299 | 73 | 0.6 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 690 | 180 | 239 | 32.7 | 116 | 18.8 | 15.1 | 1.8 | 9.2 | 55.4 | 0.6 | 0.4 | 2.2 |
| 91934 | 0.7 | 40.2 | 14.7 | 193 | 93 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 454 | 34.8 | 68.6 | 8.1 | 28.8 | 5.2 | 4.6 | 0.6 | 3.4 | 39.3 | 0.6 | 0.2 | 1.1 |
| 91935 | 1.1 | 66.5 | 13.4 | 233 | 90 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 609 | 35.0 | 69.7 | 8.7 | 31.6 | 5.3 | 4.2 | 0.5 | 2.8 | 27.4 | 0.6 | 0.2 | 1.2 |
| 91936 | 0.8 | 55.7 | 11.0 | 182 | 79 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 474 | 43.6 | 87.1 | 10.4 | 35.8 | 5.4 | 3.7 | 0.4 | 2.3 | 14.5 | 0.5 | 0.2 | 1.0 |
| 91937 | 1.6 | 62.1 | 15.9 | 201 | 93 | 1.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 549 | 44.1 | 87.2 | 10.6 | 37.7 | 6.4 | 4.7 | 0.6 | 3.2 | 47.0 | 0.6 | 0.2 | 1.3 |
| 91938 | 0.4 | 1.5 | 6.4 | 165 | 212 | 3.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 237 | 3.8 | 13.4 | 1.6 | 6.7 | 1.6 | 1.6 | 0.3 | 1.6 | 113 | 0.6 | 0.1 | 0.7 |
| 91939 | 1.1 | 58.5 | 16.4 | 207 | 54 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 563 | 51.2 | 98.3 | 12.4 | 44.9 | 7.7 | 6.3 | 0.7 | 3.8 | 29.0 | 0.5 | 0.2 | 1.4 |
| 91940 | 0.5 | 43.7 | 15.8 | 166 | 90 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 457 | 52.6 | 98.0 | 11.9 | 43.4 | 7.3 | 6.2 | 0.7 | 4.0 | 32.0 | 0.5 | 0.3 | 1.4 |
| 91941 | 0.5 | 41.2 | 11.4 | 145 | 56 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 359 | 47.5 | 94.6 | 10.8 | 37.2 | 5.9 | 4.5 | 0.5 | 2.7 | 40.0 | 0.5 | 0.2 | 1.0 |
| 91942 | 1.3 | 71.9 | 40.1 | 270 | 84 | 0.2 | 2.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 865 | 71.4 | 119 | 16.2 | 57.1 | 10.3 | 8.7 | 1.3 | 7.6 | 140 | 0.8 | 0.5 | 2.9 |
| 91943 | 1.1 | 56.5 | 38.7 | 266 | 66 | < 0.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 855 | 47.7 | 83.9 | 13.1 | 50.7 | 10.3 | 9.5 | 1.3 | 7.4 | 246 | 0.6 | 0.6 | 3.5 |
| 91944 | 0.2 | 21.2 | 17.0 | 93.6 | 43 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 343 | 67.1 | 137 | 17.8 | 68.1 | 11.2 | 8.2 | 0.9 | 4.5 | 84.6 | 0.5 | 0.3 | 1.5 |
| 91945 | 0.3 | 32.4 | 19.6 | 120 | 84 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 385 | 40.5 | 86.5 | 11.1 | 41.1 | 7.6 | 6.2 | 0.9 | 4.7 | 161 | 0.6 | 0.3 | 1.6 |
| 91946 | 0.6 | 61.9 | 25.4 | 240 | 82 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 486 | 57.6 | 112 | 14.2 | 49.8 | 8.9 | 7.5 | 1.0 | 5.7 | 130 | 0.6 | 0.3 | 1.8 |
| 91947 | 0.4 | 40.4 | 8.6 | 157 | 113 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 422 | 37.5 | 72.2 | 8.6 | 29.8 | 4.6 | 3.2 | 0.4 | 1.9 | 22.6 | 0.4 | 0.1 | 0.8 |
| 91948 | 1.4 | 15.6 | 6.5 | 178 | 170 | 16.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 500 | 16.4 | 38.8 | 4.8 | 17.5 | 3.0 | 2.3 | 0.3 | 1.7 | 22.2 | 0.8 | 0.1 | 0.7 |
| 91949 | 0.7 | 61.2 | 30.4 | 178 | 58 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 560 | 58.5 | 118 | 15.5 | 58.2 | 10.9 | 8.5 | 1.2 | 6.5 | 79.9 | 0.6 | 0.4 | 2.1 |
| 91950 | 1.4 | 48.2 | 20.2 | 250 | 66 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 639 | 53.1 | 103 | 13.2 | 47.7 | 8.1 | 6.1 | 0.8 | 4.2 | 39.3 | 0.5 | 0.3 | 1.6 |
| 91951 | 1.2 | 50.3 | 20.9 | 188 | 58 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 465 | 57.2 | 118 | 14.9 | 55.4 | 9.6 | 7.2 | 0.9 | 4.8 | 67.5 | 0.5 | 0.3 | 1.8 |
| 91952 | 6.5 | 52.5 | 16.9 | 262 | 13 | < 0.1 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 582 | 47.0 | 88.8 | 11.4 | 40.8 | 6.9 | 5.6 | 0.7 | 3.9 | 37.5 | 0.6 | 0.2 | 1.3 |
| 91953 | 2.0 | 57.0 | 13.9 | 250 | 90 | < 0.1 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 546 | 44.7 | 89.8 | 10.6 | 36.9 | 6.1 | 4.3 | 0.5 | 2.9 | 31.1 | 0.5 | 0.2 | 1.0 |
| 91954 | 2.0 | 59.0 | 10.8 | 240 | 126 | < 0.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 532 | 27.3 | 54.7 | 6.5 | 23.2 | 3.9 | 2.8 | 0.4 | 2.0 | 12.9 | 0.6 | 0.2 | 1.1 |
| 91955 | 1.3 | 54.8 | 12.0 | 252 | 124 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 552 | 35.2 | 69.5 | 7.6 | 28.1 | 4.9 | 3.9 | 0.5 | 2.6 | 25.7 | 0.4 | 0.2 | 1.0 |
| 91956 | 8.6 | 29.1 | 15.9 | 88.8 | 32 | 3.0 | 4.8 | < 0.1 | < 1 | 0.2 | < 0.1 | 420 | 34.0 | 55.0 | 8.3 | 29.8 | 5.1 | 3.9 | 0.5 | 2.9 | 97.0 | 0.5 | 0.2 | 1.2 |
| 91957 | 4.4 | 71.3 | 15.4 | 290 | 193 | 0.3 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 682 | 35.0 | 73.7 | 8.8 | 31.6 | 5.5 | 4.1 | 0.5 | 2.8 | 33.7 | 0.3 | 0.2 | 1.3 |
| 91958 | 2.3 | 67.4 | 14.0 | 260 | 60 | < 0.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 640 | 34.4 | 69.9 | 8.7 | 31.0 | 5.3 | 4.1 | 0.5 | 2.9 | 25.4 | 0.3 | 0.2 | 1.2 |
| 91959 | 1.4 | 54.8 | 16.3 | 170 | 83 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 528 | 43.3 | 89.2 | 10.3 | 37.5 | 6.5 | 5.3 | 0.7 | 3.6 | 113 | 0.4 | 0.2 | 1.3 |
| 91960 | 0.9 | 67.3 | 11.0 | 220 | 13 | < 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 571 | 30.4 | 58.8 | 7.2 | 25.8 | 4.3 | 3.4 | 0.4 | 2.4 | 14.3 | 0.4 | 0.2 | 1.0 |
| 91961 | 0.8 | 58.9 | 14.6 | 224 | 60 | < 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 521 | 40.3 | 81.1 | 9.7 | 33.7 | 5.7 | 4.4 | 0.6 | 3.2 | 37.9 | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91963 | 2.1 | 2.6 | 112 | 176 | 21 | 14.8 | 2.1 | 0.2 | 6 | < 0.1 | < 0.1 | 179 | 524 | 673 | 125 | 457 | 73.3 | 53.7 | 6.1 | 30.0 | 48.0 | 1.6 | 1.3 | 6.5 |
| 91964 | 1.0 | 44.4 | 20.6 | 236 | 104 | 0.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 668 | 68.7 | 118 | 15.8 | 56.6 | 9.8 | 7.6 | 1.0 | 5.2 | 46.5 | 0.7 | 0.3 | 1.5 |
| 91965 | 2.6 | 32.3 | 117 | 382 | 29 | 2.1 | 1.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 767 | 633 | 905 | 125 | 455 | 71.8 | 53.5 | 6.1 | 30.5 | 6.4 | 0.9 | 1.3 | 6.5 |
| 91966 | 2.0 | 43.0 | 35.4 | 307 | 134 | 1.0 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 964 | 108 | 220 | 26.8 | 94.1 | 15.7 | 12.2 | 1.6 | 8.1 | 149 | 0.7 | 0.5 | 2.4 |
| 91967 | 2.1 | 15.7 | 10.9 | 174 | 167 | 27.5 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 469 | 18.4 | 42.5 | 5.4 | 20.8 | 3.9 | 3.5 | 0.4 | 2.7 | 59.3 | 1.5 | 0.2 | 1.1 |
| 91968 | 1.3 | 47.8 | 39.2 | 277 | 30 | 4.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 808 | 109 | 201 | 27.0 | 98.7 | 16.9 | 13.7 | 1.7 | 9.2 | 186 | 0.7 | 0.5 | 2.8 |
| 91969 | 1.0 | 51.3 | 23.4 | 352 | 43 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 723 | 48.4 | 91.8 | 12.4 | 46.1 | 8.7 | 7.4 | 1.0 | 5.5 | 144 | 0.6 | 0.3 | 1.8 |
| 91970 | 0.7 | 42.0 | 23.4 | 247 | 13 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 570 | 56.3 | 104 | 13.3 | 48.1 | 8.2 | 7.2 | 0.9 | 5.2 | 143 | 0.5 | 0.3 | 1.7 |
| 91971 | 0.7 | 50.6 | 28.5 | 224 | 59 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1100 | 77.8 | 152 | 19.3 | 67.0 | 11.0 | 9.2 | 1.2 | 7.0 | 158 | 0.6 | 0.4 | 1.9 |
| 91972 | 0.8 | 49.0 | 22.5 | 201 | 78 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 500 | 49.3 | 98.0 | 12.0 | 43.7 | 7.2 | 6.0 | 0.8 | 4.6 | 111 | 0.6 | 0.3 | 1.6 |
| 91973 | 2.4 | 51.0 | 35.7 | 266 | 86 | 0.3 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 650 | 91.3 | 167 | 23.3 | 85.2 | 14.3 | 11.0 | 1.4 | 7.8 | 131 | 0.7 | 0.5 | 2.5 |
| 91974 | 1.1 | 22.7 | 52.4 | 260 | 62 | 1.3 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 616 | 182 | 361 | 46.1 | 162 | 26.2 | 20.9 | 2.6 | 13.8 | 88.7 | 0.8 | 0.7 | 3.5 |
| 91975 | 1.0 | 32.7 | 18.8 | 364 | 61 | 1.0 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1280 | 28.6 | 56.5 | 7.1 | 26.5 | 5.1 | 4.9 | 0.7 | 4.3 | 94.8 | 0.6 | 0.3 | 1.3 |
| 91976 | 0.9 | 67.5 | 25.6 | 206 | 95 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 462 | 70.1 | 135 | 17.2 | 61.0 | 10.1 | 7.6 | 1.0 | 5.6 | 137 | 0.7 | 0.3 | 1.8 |
| 91977 | 1.4 | 20.8 | 14.5 | 151 | 168 | 43.3 | 0.5 | < 0.1 | 1 | 0.1 | < 0.1 | 461 | 29.5 | 68.2 | 8.4 | 30.8 | 5.4 | 4.2 | 0.6 | 3.5 | 88.5 | 1.3 | 0.2 | 1.2 |
| 91978 | 0.2 | 28.6 | 15.2 | 87.8 | 89 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 288 | 61.3 | 122 | 15.7 | 57.2 | 9.5 | 6.8 | 0.8 | 4.0 | 44.5 | 0.6 | 0.2 | 1.0 |
| 91979 | 1.0 | 56.6 | 12.3 | 232 | 81 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 539 | 45.8 | 87.2 | 10.2 | 34.9 | 5.4 | 3.7 | 0.5 | 2.6 | 38.6 | 0.5 | 0.2 | 1.0 |
| 91980 | 0.6 | 51.8 | 17.1 | 197 | 70 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 470 | 67.2 | 129 | 15.6 | 55.2 | 8.7 | 6.3 | 0.7 | 4.0 | 39.0 | 0.5 | 0.2 | 1.2 |
| 91981 | 0.7 | 45.5 | 21.2 | 169 | 46 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 424 | 51.0 | 98.5 | 12.8 | 47.2 | 8.0 | 6.1 | 0.8 | 4.3 | 113 | 0.6 | 0.3 | 1.6 |
| 91982 | 0.3 | 64.0 | 20.7 | 169 | 77 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 530 | 54.9 | 104 | 13.4 | 49.7 | 8.6 | 6.8 | 0.9 | 4.7 | 113 | 0.6 | 0.3 | 1.7 |
| 91983 | 0.6 | 53.5 | 11.3 | 181 | 76 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 482 | 39.5 | 74.6 | 8.7 | 30.9 | 5.2 | 4.3 | 0.5 | 2.8 | 34.3 | 0.6 | 0.2 | 0.9 |
| 91984 | 0.3 | 53.3 | 11.1 | 208 | 87 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 40.5 | 76.2 | 9.2 | 32.1 | 5.2 | 3.8 | 0.5 | 2.5 | 50.9 | 0.5 | 0.2 | 0.9 |
| 91985 | 0.5 | 65.5 | 27.8 | 126 | 93 | 2.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 382 | 70.6 | 135 | 17.4 | 63.4 | 10.5 | 8.1 | 1.1 | 6.2 | 141 | 0.7 | 0.4 | 2.1 |
| 91986 | 0.2 | 65.4 | 8.2 | 188 | 93 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 505 | 40.9 | 77.1 | 9.1 | 32.5 | 4.9 | 3.4 | 0.4 | 1.9 | 14.9 | 0.5 | 0.1 | 0.9 |
| 91987 | 4.6 | 24.3 | 15.6 | 28.9 | 174 | 0.7 | 0.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 119 | 146 | 249 | 29.6 | 98.4 | 13.5 | 9.3 | 0.9 | 4.5 | 59.4 | 0.7 | 0.2 | 1.3 |
| 91988 | 2.0 | 59.5 | 20.7 | 153 | 64 | < 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 505 | 68.2 | 126 | 15.4 | 56.2 | 9.8 | 8.4 | 1.0 | 5.4 | 123 | 0.6 | 0.3 | 1.7 |
| 91989 | 0.7 | 45.5 | 8.6 | 170 | 43 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 425 | 23.2 | 44.9 | 5.2 | 18.8 | 3.2 | 2.6 | 0.3 | 1.9 | 40.8 | 0.5 | 0.1 | 0.8 |
| 91990 | 0.3 | 34.4 | 6.8 | 86.9 | 87 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 322 | 39.7 | 77.0 | 9.2 | 32.4 | 4.8 | 3.3 | 0.3 | 1.7 | 36.8 | 0.6 | 0.1 | 0.6 |
| 91991 | 7.0 | 50.4 | 20.1 | 65.1 | 147 | 0.4 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 358 | 39.2 | 82.5 | 10.9 | 41.7 | 8.1 | 6.7 | 0.9 | 5.0 | 69.6 | 0.8 | 0.3 | 1.4 |
| 91992 | 2.2 | 38.7 | 10.3 | 147 | 118 | 0.8 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 329 | 57.0 | 112 | 13.9 | 48.6 | 7.5 | 4.7 | 0.5 | 2.4 | 31.9 | 0.7 | 0.2 | 0.8 |
| 91993 | 2.8 | 56.3 | 15.3 | 257 | 107 | 0.3 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 579 | 38.2 | 77.6 | 9.3 | 34.1 | 6.0 | 5.0 | 0.6 | 3.6 | 59.6 | 0.7 | 0.2 | 1.3 |
| 91994 | 0.9 | 57.8 | 12.1 | 262 | 80 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 591 | 32.6 | 61.8 | 7.4 | 26.5 | 4.7 | 3.8 | 0.5 | 2.8 | 28.6 | 0.5 | 0.2 | 1.0 |
| 91995 | 1.3 | 30.7 | 9.8 | 278 | 185 | 15.0 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 596 | 18.0 | 40.8 | 5.0 | 17.9 | 3.2 | 2.6 | 0.4 | 2.2 | 39.3 | 0.6 | 0.2 | 0.9 |
| 91996 | 0.9 | 56.0 | 22.2 | 110 | 109 | 5.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 388 | 71.3 | 136 | 17.1 | 61.0 | 10.3 | 7.5 | 1.0 | 5.3 | 168 | 0.8 | 0.3 | 1.7 |
| 91997 | 0.7 | 51.8 | 10.1 | 87.5 | 31 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 511 | 30.6 | 64.6 | 8.3 | 31.7 | 5.4 | 4.0 | 0.4 | 2.4 | 192 | 0.7 | 0.2 | 0.9 |
| 91998 | 0.7 | 44.0 | 21.2 | 145 | 90 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 373 | 50.2 | 98.7 | 13.1 | 48.0 | 8.3 | 6.3 | 0.8 | 4.6 | 135 | 0.7 | 0.3 | 1.6 |
| 91999 | 0.7 | 17.4 | 26.6 | 113 | 45 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 242 | 61.9 | 128 | 16.1 | 58.6 | 10.2 | 8.5 | 1.1 | 6.2 | 106 | 0.7 | 0.4 | 1.8 |
| 92000 | 0.4 | 49.4 | 18.5 | 128 | 73 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 369 | 45.4 | 93.7 | 12.3 | 46.1 | 8.1 | 6.4 | 0.8 | 4.5 | 123 | 0.7 | 0.3 | 1.5 |
| 91851 | 2.1 | 43.5 | 35.2 | 270 | 13 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 703 | 124 | 231 | 29.9 | 109 | 17.8 | 14.4 | 1.7 | 9.5 | 135 | 0.9 | 0.5 | 2.4 |
| 91852 | 3.7 | 53.2 | 55.7 | 257 | 61 | 17.5 | 1.7 | < 0.1 | 2 | 0.1 | < 0.1 | 691 | 185 | 330 | 44.6 | 166 | 28.2 | 24.0 | 2.8 | 15.5 | 113 | 1.0 | 0.8 | 3.7 |
| 91853 | 2.1 | 59.1 | 37.5 | 420 | 211 | 60.4 | 1.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 625 | 111 | 206 | 26.8 | 94.1 | 15.7 | 13.0 | 1.7 | 9.4 | 63.2 | 0.7 | 0.5 | 2.3 |
| 91854 | 3.6 | 55.3 | 74.3 | 434 | 42 | 8.8 | 4.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 747 | 216 | 405 | 55.5 | 199 | 32.5 | 24.9 | 3.1 | 17.5 | 196 | 1.0 | 1.0 | 4.8 |
| 91855 | 0.8 | 19.6 | 22.7 | 315 | 78 | 11.0 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 966 | 49.2 | 88.9 | 12.2 | 44.2 | 7.7 | 6.0 | 0.8 | 4.7 | 127 | 0.7 | 0.3 | 1.5 |
| 91856 | 0.6 | 47.7 | 25.3 | 238 | 80 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 549 | 65.5 | 119 | 15.6 | 57.2 | 10.4 | 8.4 | 1.1 | 6.2 | 118 | 0.5 | 0.4 | 1.8 |
| 91857 | 1.0 | 57.4 | 26.6 | 271 | 48 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 686 | 79.7 | 177 | 18.4 | 62.9 | 10.4 | 8.9 | 1.2 | 6.9 | 159 | 0.7 | 0.4 | 1.8 |
| 91858 | 1.2 | 59.7 | 31.1 | 258 | 67 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 751 | 96.5 | 163 | 21.1 | 72.8 | 12.3 | 10.6 | 1.4 | 7.9 | 139 | 0.7 | 0.4 | 2.0 |
| 91859 | 1.4 | 40.1 | 43.6 | 257 | 9 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 511 | 171 | 358 | 38.4 | 131 | 21.0 | 17.8 | 2.3 | 12.7 | 78.1 | 1.0 | 0.6 | 2.8 |
| 91860 | < 0.1 | 50.6 | 13.5 | 284 | 34 | 2.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 431 | 31.8 | 48.9 | 6.2 | 21.9 | 4.0 | 3.7 | 0.5 | 3.2 | 38.7 | 0.6 | 0.2 | 1.0 |
| 91861 | 1.5 | 58.4 | 20.3 | 216 | 95 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 541 | 66.6 | 124 | 13.6 | 45.7 | 7.4 | 6.1 | 0.8 | 4.9 | 79.4 | 0.8 | 0.3 | 1.3 |
| 91862 | 1.3 | 91.1 | 14.2 | 280 | 83 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 684 | 35.7 | 68.6 | 8.0 | 27.1 | 4.5 | 3.6 | 0.5 | 3.1 | 58.5 | 0.8 | 0.2 | 1.0 |
| 91863 | 0.9 | 51.4 | 11.7 | 176 | 84 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 391 | 36.0 | 71.0 | 8.7 | 30.9 | 4.7 | 3.6 | 0.5 | 2.7 | 43.4 | 0.6 | 0.2 | 0. |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91865 | 1.2 | 80.9 | 18.6 | 284 | 101 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 775 | 40.6 | 75.2 | 9.2 | 32.6 | 5.6 | 4.7 | 0.6 | 4.0 | 82.9 | 0.7 | 0.3 | 1.4 |
| 91866 | 2.1 | 19.1 | 12.3 | 204 | 196 | 47.6 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 513 | 22.5 | 58.0 | 6.8 | 26.9 | 5.2 | 4.6 | 0.6 | 3.6 | 117 | 1.2 | 0.2 | 1.1 |
| 91867 | 3.8 | 70.9 | 31.3 | 262 | 3 | 0.1 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 718 | 131 | 248 | 27.7 | 97.5 | 15.1 | 11.5 | 1.4 | 7.4 | 70.6 | 0.4 | 0.4 | 2.2 |
| 91868 | 2.3 | 72.0 | 51.7 | 262 | 2 | 2.0 | 0.2 | 0.1 | 1 | < 0.1 | < 0.1 | 645 | 224 | 324 | 45.7 | 166 | 27.0 | 20.5 | 2.4 | 12.4 | 73.6 | 0.5 | 0.6 | 3.0 |
| 91869 | 1.6 | 78.3 | 19.2 | 253 | 44 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 651 | 53.2 | 97.9 | 11.5 | 42.8 | 7.3 | 5.9 | 0.7 | 4.0 | 47.4 | 0.3 | 0.3 | 1.5 |
| 91870 | 1.5 | 28.4 | 68.5 | 379 | 47 | 0.4 | 0.4 | 0.2 | 2 | < 0.1 | < 0.1 | 730 | 306 | 675 | 66.7 | 240 | 38.2 | 30.2 | 3.5 | 18.3 | 86.6 | 0.6 | 0.9 | 4.5 |
| 91871 | 2.0 | 45.5 | 25.0 | 281 | 110 | 5.4 | 7.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 1040 | 78.6 | 150 | 16.5 | 60.4 | 10.0 | 8.0 | 1.0 | 5.5 | 69.4 | 0.5 | 0.3 | 1.8 |
| 91872 | 0.6 | 99.7 | 16.4 | 238 | 140 | 0.6 | < 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | > 6000 | 51.0 | 112 | 13.1 | 51.1 | 9.3 | 7.6 | 0.9 | 4.6 | 68.6 | 0.3 | 0.2 | 0.8 |
| 91873 | 2.4 | 67.1 | 29.1 | 291 | 135 | 0.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 95.1 | 179 | 20.6 | 76.4 | 12.9 | 10.4 | 1.2 | 6.7 | 85.1 | 0.5 | 0.4 | 2.2 |
| 91874 | 2.0 | 55.3 | 42.2 | 257 | 38 | 8.2 | 2.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 518 | 122 | 240 | 27.6 | 105 | 18.2 | 14.9 | 1.8 | 9.5 | 38.0 | 0.4 | 0.6 | 3.4 |
| 91875 | 1.9 | 34.0 | 8.9 | 199 | 181 | 32.7 | 0.9 | < 0.1 | 1 | 0.1 | 0.2 | 533 | 18.3 | 44.2 | 4.8 | 18.7 | 3.5 | 2.7 | 0.4 | 2.1 | 27.5 | 0.5 | 0.2 | 0.9 |
| 91876 | 1.1 | 55.8 | 15.8 | 261 | 131 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 526 | 40.5 | 82.8 | 9.3 | 35.1 | 6.0 | 4.9 | 0.6 | 3.4 | 37.3 | 0.2 | 0.2 | 1.3 |
| 91877 | 1.4 | 43.3 | 41.2 | 294 | 9 | 4.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 662 | 158 | 323 | 34.9 | 127 | 20.9 | 16.7 | 2.0 | 10.6 | 97.7 | 0.5 | 0.6 | 3.1 |
| 91878 | 1.6 | 35.4 | 81.3 | 349 | 16 | 1.5 | 2.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 592 | 319 | 542 | 65.7 | 233 | 39.0 | 31.6 | 3.8 | 20.1 | 126 | 0.6 | 1.0 | 5.6 |
| 91879 | 0.7 | 41.4 | 41.9 | 194 | 41 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 495 | 129 | 232 | 30.9 | 117 | 20.2 | 15.9 | 1.9 | 9.9 | 129 | 0.5 | 0.6 | 3.3 |
| 91880 | 0.7 | 34.5 | 18.4 | 163 | 70 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 295 | 59.2 | 120 | 13.1 | 49.2 | 8.2 | 6.6 | 0.8 | 4.2 | 58.7 | 0.4 | 0.3 | 1.5 |
| 91881 | 0.3 | 21.9 | 15.1 | 131 | 96 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 216 | 54.0 | 113 | 12.4 | 48.4 | 8.4 | 6.7 | 0.8 | 3.7 | 34.5 | 0.5 | 0.2 | 1.2 |
| 91882 | 0.3 | 24.5 | 18.1 | 181 | 125 | 1.7 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 301 | 54.7 | 117 | 13.4 | 51.0 | 9.2 | 7.3 | 0.9 | 4.6 | 43.2 | 0.4 | 0.3 | 1.5 |
| 91883 | 0.7 | 42.0 | 13.7 | 126 | 102 | 1.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 283 | 53.6 | 119 | 13.1 | 50.5 | 8.7 | 6.6 | 0.8 | 3.6 | 68.0 | 0.5 | 0.2 | 1.2 |
| 91884 | 0.4 | 34.6 | 24.3 | 166 | 81 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 325 | 75.7 | 136 | 18.2 | 71.7 | 12.9 | 10.3 | 1.2 | 6.2 | 91.9 | 0.5 | 0.3 | 1.7 |
| 91885 | 1.0 | 4.5 | 6.1 | 102 | 279 | 32.0 | 0.7 | < 0.1 | 1 | < 0.1 | 0.1 | 195 | 13.4 | 36.5 | 4.6 | 19.6 | 3.9 | 3.0 | 0.4 | 1.9 | 68.8 | 1.1 | 0.1 | 0.9 |
| 91886 | 0.5 | 11.6 | 11.6 | 152 | 58 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 210 | 47.4 | 96.7 | 11.9 | 46.4 | 7.4 | 5.3 | 0.5 | 2.8 | 61.1 | 0.3 | 0.2 | 1.2 |
| 91887 | 1.1 | 53.1 | 18.4 | 191 | 25 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 415 | 58.7 | 113 | 12.9 | 48.4 | 8.1 | 6.5 | 0.8 | 4.1 | 46.7 | 0.4 | 0.2 | 1.4 |
| 91888 | 0.9 | 74.1 | 14.4 | 193 | 6 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 569 | 39.6 | 77.1 | 8.6 | 32.0 | 5.4 | 4.4 | 0.5 | 3.1 | 33.7 | 0.4 | 0.2 | 1.3 |
| 91889 | 0.9 | 50.8 | 15.0 | 164 | 84 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 444 | 57.6 | 120 | 12.3 | 45.8 | 7.3 | 5.8 | 0.7 | 3.4 | 19.1 | 0.4 | 0.2 | 1.4 |
| 91890 | 0.8 | 40.5 | 26.1 | 141 | 65 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 293 | 111 | 226 | 24.0 | 89.0 | 14.6 | 11.9 | 1.3 | 6.5 | 68.3 | 0.6 | 0.3 | 2.0 |
| 91891 | 0.7 | 1.5 | 5.1 | 303 | 2 | 0.6 | 27.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 351 | 7.9 | 12.0 | 1.8 | 7.1 | 1.4 | 1.3 | 0.2 | 1.0 | 71.1 | 0.1 | < 0.1 | 0.4 |
| 91892 | 0.4 | 19.0 | 14.8 | 185 | 71 | < 0.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 489 | 54.2 | 113 | 13.8 | 54.5 | 9.7 | 7.2 | 0.7 | 3.6 | 45.6 | 0.4 | 0.2 | 1.3 |
| 91893 | 1.5 | 50.2 | 29.6 | 94.3 | 80 | 0.3 | 0.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 453 | 84.0 | 195 | 20.2 | 75.3 | 12.4 | 9.8 | 1.2 | 6.6 | 41.5 | 0.5 | 0.5 | 3.0 |
| 91894 | 0.9 | 56.3 | 27.4 | 160 | 40 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 79.5 | 161 | 16.2 | 58.1 | 9.8 | 8.5 | 1.1 | 6.6 | 12.1 | 0.4 | 0.4 | 2.7 |
| 91895 | 2.6 | 18.7 | 15.6 | 164 | 210 | 69.3 | 4.5 | < 0.1 | 2 | < 0.1 | 0.2 | 398 | 39.5 | 110 | 11.2 | 43.9 | 7.7 | 6.4 | 0.8 | 4.2 | 16.3 | 0.6 | 0.3 | 1.6 |
| 91896 | 5.3 | 76.6 | 20.3 | 233 | 10 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 62.0 | 119 | 13.1 | 48.1 | 8.2 | 6.8 | 0.8 | 4.4 | 41.4 | 0.4 | 0.3 | 1.6 |
| 91897 | 2.8 | 50.8 | 37.3 | 326 | 70 | 4.9 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 474 | 128 | 246 | 27.0 | 98.0 | 15.9 | 13.4 | 1.6 | 8.4 | 77.8 | 0.5 | 0.4 | 2.6 |
| 91898 | 6.2 | 48.1 | 135 | 222 | 1 | 0.3 | 7.5 | 0.2 | < 1 | < 0.1 | 0.1 | 725 | 567 | 974 | 129 | 478 | 77.5 | 61.0 | 7.0 | 35.6 | 31.2 | 0.9 | 1.6 | 8.4 |
| 91899 | 1.2 | 65.4 | 10.3 | 229 | 15 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 535 | 38.2 | 73.2 | 8.0 | 29.3 | 4.7 | 3.6 | 0.4 | 2.2 | 13.8 | 0.4 | 0.2 | 0.9 |
| 91900 | 1.4 | 62.6 | 31.8 | 213 | 59 | 1.5 | 0.6 | < 0.1 | 2 | < 0.1 | < 0.1 | 579 | 75.1 | 178 | 17.4 | 63.3 | 11.4 | 9.8 | 1.3 | 7.4 | 30.0 | 0.5 | 0.4 | 2.4 |
| 91901 | 2.1 | 59.4 | 34.0 | 283 | 115 | 24.0 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 543 | 117 | 220 | 24.0 | 89.0 | 14.7 | 12.0 | 1.4 | 7.8 | 31.5 | 1.0 | 0.4 | 2.3 |
| 91902 | 7.6 | 35.7 | 37.1 | 247 | 35 | 25.1 | 12.5 | < 0.1 | 2 | < 0.1 | < 0.1 | 647 | 105 | 213 | 22.7 | 84.4 | 14.7 | 12.0 | 1.5 | 8.3 | 58.4 | 0.5 | 0.5 | 2.7 |
| 91903 | 3.6 | 20.1 | 15.9 | 203 | 161 | 41.6 | 8.1 | < 0.1 | 1 | < 0.1 | < 0.1 | 518 | 32.7 | 68.4 | 8.6 | 32.8 | 6.3 | 5.4 | 0.7 | 3.9 | 33.8 | 0.7 | 0.3 | 1.5 |
| 91904 | 1.8 | 3.9 | 5.7 | 216 | 9 | 1.9 | 50.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 37 | 12.6 | 17.2 | 2.7 | 10.4 | 1.7 | 1.6 | 0.2 | 1.1 | 74.6 | 0.1 | < 0.1 | 0.4 |
| 91905 | 1.8 | 61.8 | 32.0 | 354 | 13 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 742 | 106 | 197 | 21.5 | 77.4 | 13.0 | 10.6 | 1.3 | 7.1 | 98.4 | 0.3 | 0.4 | 2.3 |
| 91906 | 1.2 | 72.9 | 16.6 | 234 | 3 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 546 | 50.5 | 92.0 | 10.6 | 38.7 | 6.5 | 5.4 | 0.7 | 3.6 | 29.7 | 0.4 | 0.2 | 1.3 |
| 91907 | 3.5 | 79.6 | 36.4 | 348 | 33 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 745 | 129 | 230 | 26.0 | 95.5 | 15.6 | 12.3 | 1.5 | 7.9 | 99.0 | 0.4 | 0.4 | 2.3 |
| 91908 | 1.4 | 18.9 | 161 | 640 | 57 | 1.3 | 0.8 | 0.4 | 2 | < 0.1 | < 0.1 | 962 | 782 | 1260 | 155 | 560 | 89.1 | 67.4 | 7.8 | 41.1 | 111 | 1.1 | 1.9 | 9.8 |
| 91909 | 2.8 | 59.8 | 53.6 | 363 | 29 | 26.6 | 1.2 | 0.1 | 2 | < 0.1 | < 0.1 | 813 | 209 | 395 | 43.3 | 156 | 25.7 | 20.4 | 2.4 | 12.7 | 83.4 | 0.6 | 0.7 | 3.6 |
| 91910 | 1.1 | 52.3 | 22.6 | 220 | 111 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 547 | 96.1 | 177 | 19.1 | 67.5 | 10.8 | 8.4 | 1.0 | 5.3 | 60.9 | 0.5 | 0.3 | 1.7 |
| 91911 | 2.3 | 32.5 | 96.5 | 437 | 8 | 0.5 | 2.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 992 | 389 | 793 | 86.5 | 321 | 53.3 | 42.4 | 4.9 | 24.6 | 56.8 | 0.7 | 1.1 | 5.6 |
| 91912 | 2.0 | 68.1 | 33.5 | 263 | 143 | 2.8 | 0.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 687 | 108 | 196 | 23.2 | 84.7 | 14.1 | 11.2 | 1.3 | 7.3 | 81.9 | 0.7 | 0.4 | 2.4 |
| 91913 | 1.5 | 77.7 | 29.5 | 250 | 59 | 0.6 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 694 | 113 | 194 | 23.5 | 84.8 | 14.0 | 11.2 | 1.3 | 6.8 | 57.8 | 0.5 | 0.4 | 2.1 |
| 91914 | 1.3 | 22.0 | 19.4 | 195 | 114 | 43.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 58.8 | 110 | 12.7 | 47.4 | 8.0 | 6.5 | 0.8 | 4.6 | 66.1 | 0.7 | 0.3 | 1.7 |
| 91915 | 1.1 | 47.2 | 20.8 | 216 | 41 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 515 | 48.3 | 100 | 10.3 | 38.1 | 6.8 | 5.9 | 0.8 | 4.6 | 48.7 | 0.3 | 0.3 | 1.5 |
| 91916 | 0.7 | 39.5 | 14.2 | 224 | 76 | 1 | | | | | | | | | | | | | | | | | | |

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| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91917 | 0.6 | 35.1 | 20.0 | 262 | 27 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 500 | 43.2 | 86.3 | 8.3 | 31.4 | 5.7 | 5.4 | 0.7 | 4.3 | 108 | 0.3 | 0.3 | 1.7 |
| 91918 | 0.8 | 44.0 | 21.1 | 200 | 45 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 414 | 71.3 | 135 | 14.8 | 53.6 | 8.9 | 7.3 | 0.9 | 4.9 | 57.6 | 0.3 | 0.3 | 1.6 |
| 91919 | 2.4 | 46.5 | 33.8 | 259 | 69 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 671 | 92.6 | 171 | 21.2 | 79.7 | 13.6 | 11.4 | 1.4 | 7.5 | 230 | 0.6 | 0.4 | 2.4 |
| 91920 | 0.8 | 56.7 | 25.1 | 253 | 71 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 623 | 59.8 | 107 | 13.5 | 50.4 | 8.8 | 7.4 | 0.9 | 5.4 | 87.2 | 0.4 | 0.3 | 1.9 |
| 91921 | 0.9 | 52.2 | 28.1 | 242 | 80 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 656 | 83.0 | 162 | 18.5 | 68.4 | 11.6 | 9.7 | 1.2 | 6.5 | 112 | 0.4 | 0.4 | 2.1 |
| 91922 | 1.2 | 24.3 | 11.3 | 152 | 41 | 0.2 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 333 | 37.8 | 81.5 | 9.3 | 33.6 | 5.3 | 4.0 | 0.5 | 2.7 | 88.3 | 0.4 | 0.2 | 1.0 |
| 91923 | 0.7 | 40.3 | 16.8 | 186 | 62 | 2.3 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 446 | 51.0 | 99.9 | 10.8 | 40.4 | 6.6 | 5.5 | 0.7 | 3.8 | 101 | 0.4 | 0.2 | 1.4 |
| 92576 | 2.3 | 51.9 | 7.8 | 227 | 201 | 15.6 | 3.1 | < 0.1 | 1 | 0.1 | 0.1 | 565 | 22.9 | 45.4 | 4.8 | 17.2 | 3.1 | 2.4 | 0.3 | 1.7 | 15.0 | 0.2 | 0.1 | 0.8 |
| 92577 | 3.2 | 69.2 | 10.9 | 315 | 183 | 3.5 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 615 | 26.9 | 55.0 | 5.9 | 22.3 | 3.9 | 3.1 | 0.4 | 2.2 | 15.4 | 0.1 | 0.2 | 0.9 |
| 92578 | 2.8 | 71.8 | 10.8 | 324 | 145 | 3.6 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 638 | 27.0 | 54.0 | 5.8 | 21.0 | 3.7 | 3.0 | 0.4 | 2.1 | 15.1 | 0.2 | 0.2 | 0.9 |
| 92579 | 2.2 | 79.6 | 12.8 | 285 | 75 | 1.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 634 | 42.3 | 81.8 | 9.0 | 32.2 | 5.2 | 4.1 | 0.5 | 2.6 | 17.7 | 0.3 | 0.2 | 1.1 |
| 92580 | 1.3 | 82.1 | 17.8 | 313 | 21 | 22.2 | 4.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 603 | 74.7 | 145 | 15.5 | 54.1 | 8.3 | 6.4 | 0.7 | 4.0 | 16.3 | 0.5 | 0.2 | 1.3 |
| 92581 | 2.0 | 79.4 | 15.6 | 304 | 53 | 33.9 | 6.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 587 | 54.5 | 109 | 12.4 | 44.4 | 7.3 | 5.5 | 0.7 | 3.6 | 20.7 | 0.4 | 0.2 | 1.3 |
| 92582 | 2.1 | 87.7 | 42.7 | 317 | 30 | 0.8 | 7.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 498 | 152 | 300 | 35.1 | 130 | 20.5 | 15.8 | 1.8 | 9.7 | 36.8 | 0.3 | 0.5 | 2.8 |
| 92583 | 4.5 | 65.3 | 58.9 | 538 | 6 | 0.5 | 1.9 | < 0.1 | < 1 | < 0.1 | 0.1 | 502 | 250 | 607 | 67.4 | 245 | 36.0 | 26.5 | 3.0 | 15.2 | 32.2 | 0.5 | 0.7 | 3.5 |
| 92584 | 1.7 | 73.1 | 11.7 | 301 | 44 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 627 | 33.4 | 69.0 | 7.3 | 26.4 | 4.3 | 3.5 | 0.4 | 2.4 | 16.5 | 0.5 | 0.2 | 1.0 |
| 92585 | 5.7 | 49.2 | 22.4 | 342 | 143 | 42.3 | 2.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 638 | 75.8 | 167 | 19.1 | 72.4 | 11.9 | 9.0 | 1.1 | 5.9 | 26.6 | 1.0 | 0.3 | 2.0 |
| 92586 | 2.4 | 76.8 | 13.6 | 320 | 196 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 653 | 40.7 | 81.2 | 9.1 | 32.8 | 5.5 | 4.1 | 0.5 | 2.8 | 15.6 | 0.2 | 0.2 | 1.2 |
| 92587 | 1.9 | 78.8 | 9.6 | 291 | 22 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 593 | 28.0 | 55.6 | 6.0 | 21.7 | 3.6 | 2.7 | 0.3 | 1.9 | 14.1 | 0.3 | 0.1 | 0.8 |
| 92588 | 1.8 | 73.0 | 11.0 | 322 | 92 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 640 | 26.2 | 54.2 | 5.9 | 22.2 | 3.9 | 3.0 | 0.4 | 2.3 | 13.3 | 0.4 | 0.2 | 1.1 |
| 92589 | 4.8 | 63.8 | 8.2 | 299 | 143 | 6.0 | 1.1 | < 0.1 | < 1 | 0.2 | < 0.1 | 581 | 21.8 | 42.9 | 4.8 | 17.4 | 3.0 | 2.4 | 0.3 | 1.6 | 8.3 | 0.1 | 0.1 | 0.7 |
| 92590 | 3.6 | 74.0 | 11.5 | 337 | 195 | 15.8 | 0.8 | < 0.1 | < 1 | 0.1 | < 0.1 | 634 | 26.8 | 63.2 | 6.1 | 22.3 | 3.8 | 3.1 | 0.4 | 2.2 | 10.3 | 0.2 | 0.2 | 1.0 |
| 92591 | 3.7 | 81.3 | 28.5 | 493 | 55 | 17.9 | 2.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 635 | 172 | 387 | 44.0 | 156 | 21.9 | 14.5 | 1.5 | 7.5 | 16.4 | 0.7 | 0.4 | 1.9 |
| 92592 | 3.0 | 72.7 | 14.8 | 318 | 154 | 50.4 | 0.9 | < 0.1 | < 1 | 0.1 | 0.1 | 591 | 41.5 | 137 | 10.3 | 38.3 | 6.5 | 5.0 | 0.6 | 3.1 | 9.1 | 0.2 | 0.2 | 1.1 |
| 92593 | 3.7 | 69.8 | 49.5 | 493 | 35 | 36.6 | 3.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 607 | 237 | 530 | 64.9 | 239 | 36.0 | 24.5 | 2.6 | 12.8 | 14.4 | 0.6 | 0.6 | 3.0 |
| 92594 | 1.9 | 68.6 | 15.3 | 345 | 197 | 53.8 | 0.7 | < 0.1 | < 1 | 0.1 | 0.2 | 609 | 54.7 | 141 | 13.9 | 51.3 | 7.9 | 5.8 | 0.7 | 3.5 | 8.2 | 0.2 | 0.2 | 1.3 |
| 92595 | 3.0 | 74.7 | 12.1 | 317 | 226 | 49.9 | 2.4 | < 0.1 | < 1 | 0.1 | < 0.1 | 580 | 37.3 | 80.5 | 8.9 | 32.7 | 5.6 | 4.1 | 0.5 | 2.6 | 7.7 | 0.2 | 0.2 | 1.0 |
| 92596 | 2.7 | 62.6 | 13.2 | 308 | 180 | 34.6 | 0.9 | < 0.1 | < 1 | 0.1 | 0.1 | 587 | 43.4 | 101 | 10.0 | 36.1 | 6.0 | 4.4 | 0.5 | 2.9 | 11.9 | 0.1 | 0.2 | 1.1 |
| 92597 | 2.4 | 55.4 | 31.1 | 338 | 138 | 61.4 | 5.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 525 | 257 | 519 | 61.1 | 214 | 28.2 | 16.9 | 1.6 | 7.5 | 21.6 | 0.4 | 0.4 | 2.0 |
| 92598 | 2.6 | 25.5 | 8.4 | 273 | 174 | 114 | 1.4 | < 0.1 | 1 | 0.1 | 0.2 | 532 | 21.1 | 53.9 | 6.2 | 22.9 | 4.0 | 3.0 | 0.4 | 2.3 | 11.3 | 1.0 | 0.2 | 0.9 |
| 92599 | 4.2 | 27.2 | 128 | > 1000 | 18 | 4.0 | 11.2 | 0.3 | < 1 | < 0.1 | 0.1 | 346 | 806 | 1680 | 153 | 514 | 70.5 | 53.3 | 5.9 | 30.2 | 13.0 | 1.2 | 1.4 | 7.2 |
| 92600 | 2.2 | 69.6 | 42.3 | 571 | 69 | 2.2 | 15.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 552 | 247 | 496 | 58.5 | 206 | 29.5 | 20.4 | 2.2 | 10.8 | 37.9 | 0.4 | 0.5 | 2.8 |
| 92601 | 2.4 | 62.7 | 36.7 | 552 | < 1 | 0.3 | 6.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 661 | 212 | 437 | 49.6 | 176 | 25.4 | 17.9 | 1.9 | 9.3 | 41.8 | 0.4 | 0.4 | 2.4 |
| 92602 | 3.6 | 99.6 | 54.3 | 537 | 5 | 3.8 | 6.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 808 | 238 | 550 | 60.7 | 219 | 33.4 | 23.4 | 2.7 | 13.8 | 38.6 | 0.5 | 0.7 | 3.5 |
| 92603 | 3.0 | 63.7 | 46.7 | 535 | 3 | 1.6 | 10.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 631 | 287 | 648 | 72.0 | 260 | 37.4 | 24.3 | 2.5 | 12.3 | 23.3 | 0.4 | 0.6 | 3.1 |
| 92604 | 2.3 | 71.0 | 44.4 | 500 | 3 | 5.4 | 8.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 669 | 253 | 561 | 62.7 | 227 | 33.2 | 22.5 | 2.4 | 11.3 | 33.8 | 0.5 | 0.5 | 2.9 |
| 92605 | 3.1 | 69.8 | 63.0 | 831 | 3 | 0.7 | 3.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 749 | 426 | 972 | 108 | 391 | 55.5 | 35.8 | 3.6 | 17.0 | 15.0 | 0.6 | 0.7 | 3.7 |
| 92606 | 6.0 | 64.2 | 79.0 | 754 | 12 | 22.1 | 6.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 672 | 708 | 1450 | 160 | 567 | 76.7 | 45.0 | 4.1 | 19.5 | 13.4 | 0.9 | 0.8 | 4.4 |
| 92607 | 4.7 | 71.5 | 85.2 | 778 | 28 | 6.9 | 35.9 | 0.2 | < 1 | < 0.1 | 0.1 | 611 | 635 | 1330 | 150 | 532 | 73.4 | 47.5 | 4.7 | 22.6 | 17.4 | 0.8 | 1.0 | 5.1 |
| 92608 | 2.1 | 39.9 | 6.1 | 250 | 140 | 11.8 | 19.7 | < 0.1 | < 1 | 0.1 | 0.1 | 605 | 9.8 | 22.9 | 2.8 | 10.9 | 2.1 | 1.8 | 0.2 | 1.5 | 17.4 | 0.2 | 0.1 | 0.7 |
| 92609 | 1.7 | 51.8 | 8.0 | 273 | 163 | 7.1 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 581 | 13.4 | 30.4 | 3.6 | 13.8 | 2.7 | 2.1 | 0.3 | 1.7 | 10.5 | 0.6 | 0.1 | 0.8 |
| 92610 | 2.3 | 72.9 | 11.5 | 303 | 161 | 15.7 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 615 | 27.8 | 57.2 | 6.3 | 23.1 | 4.1 | 3.3 | 0.4 | 2.3 | 14.3 | < 0.1 | 0.2 | 1.0 |
| 92611 | 2.4 | 74.6 | 9.8 | 281 | 171 | 16.1 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 595 | 29.8 | 62.0 | 6.8 | 24.6 | 4.1 | 3.1 | 0.4 | 2.0 | 8.2 | 0.1 | 0.1 | 0.8 |
| 92612 | 2.2 | 83.2 | 17.6 | 327 | 189 | 37.0 | 1.3 | < 0.1 | < 1 | 0.1 | 0.1 | 633 | 70.6 | 132 | 16.0 | 56.9 | 8.8 | 6.4 | 0.7 | 3.8 | 20.3 | 0.1 | 0.2 | 1.4 |
| 92613 | 2.7 | 85.6 | 17.1 | 346 | 59 | 37.2 | 2.4 | < 0.1 | 1 | < 0.1 | 0.1 | 657 | 63.5 | 132 | 15.7 | 57.3 | 9.1 | 6.7 | 0.8 | 4.0 | 19.0 | 0.2 | 0.2 | 1.3 |
| 92614 | 1.6 | 68.8 | 24.2 | 353 | 17 | 19.0 | 8.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 558 | 93.7 | 181 | 20.6 | 72.2 | 11.5 | 8.8 | 1.0 | 5.3 | 11.8 | 0.2 | 0.3 | 1.8 |
| 92615 | 3.5 | 63.4 | 40.1 | 454 | 9 | 12.3 | 1.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1120 | 498 | 988 | 98.3 | 318 | 37.0 | 24.2 | 2.3 | 11.2 | 19.6 | 0.6 | 0.5 | 2.6 |
| 92616 | 2.4 | 79.5 | 19.4 | 337 | 47 | 36.7 | 0.9 | < 0.1 | < 1 | < 0.1 | 0.1 | 672 | 74.2 | 155 | 17.4 | 62.3 | 9.4 | 6.9 | 0.8 | 4.4 | 16.3 | 0.2 | 0.3 | 1.4 |
| 92617 | 1.9 | 74.0 | 9.7 | 293 | 153 | 5.1 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 631 | 25.7 | 52.5 | 5.8 | 20.4 | 3.6 | 2.8 | 0.3 | 2.0 | 10.4 | 0.1 | 0.1 | 0.8 |
| 92618 | 2.4 | 35.2 | 6.8 | 268 | 191 | 12.5 | 0.3 | < 0.1 | < 1 | 0.2 | 0.1 | 571 | 10.4 | 26.7 | 3.1 | 12.2 | 2.4 | 2.0 | 0.3 | 1.7 | 14.2 | 0.1 | 0.1 | 0.8 |
| 92619 | 2.3 | 53.2 | 11.7 | 291 | 236 | 21.4 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 581 | 33.5 | 75.4 | 8.6 | 31.0 | 5.4 | 4.1 | 0.5 | 2.6 | 8.3 | 0.1 | 0.2 | 1.1 |
| 92620 | 15.8 | 10.3 | 205 | > 1000 | 6 | 7.9 | 4.8 | 0.2 | < 1 | < 0.1 | < 0.1 | 129 | 1020 | 2520 | 275 | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92621 | 3.1 | 78.3 | 17.0 | 260 | 159 | 4.6 | 0.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 588 | 50.5 | 101 | 11.8 | 43.3 | 7.2 | 5.5 | 0.7 | 3.6 | 32.3 | 0.2 | 0.2 | 1.3 |
| 92622 | 1.8 | 68.8 | 12.6 | 248 | 197 | 1.0 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 560 | 38.5 | 77.0 | 8.8 | 31.1 | 5.5 | 4.2 | 0.5 | 2.8 | 68.3 | 0.2 | 0.2 | 1.1 |
| 92623 | 2.3 | 98.7 | 16.7 | 257 | 89 | 3.5 | 0.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 658 | 64.8 | 119 | 12.8 | 44.8 | 7.2 | 5.5 | 0.7 | 3.8 | 24.5 | 0.2 | 0.2 | 1.2 |
| 92624 | 5.3 | 81.3 | 15.4 | 306 | 190 | 1.5 | 1.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 660 | 43.7 | 86.9 | 9.8 | 36.0 | 6.2 | 4.7 | 0.6 | 3.2 | 37.4 | 0.1 | 0.2 | 1.4 |
| 92625 | 3.7 | 80.1 | 26.6 | 362 | 51 | 49.3 | 6.1 | < 0.1 | 2 | 0.2 | 0.1 | 613 | 186 | 323 | 33.2 | 111 | 15.6 | 11.3 | 1.2 | 6.4 | 41.5 | 0.2 | 0.3 | 1.9 |
| 92626 | 3.9 | 35.6 | 15.7 | 316 | 171 | 110 | 3.8 | < 0.1 | 1 | 0.2 | 0.2 | 549 | 63.3 | 140 | 15.9 | 57.9 | 9.0 | 6.6 | 0.8 | 4.4 | 41.1 | 1.2 | 0.3 | 1.5 |
| 92627 | 1.6 | 15.0 | 101 | 209 | 122 | 1.3 | 9.6 | 0.2 | < 1 | < 0.1 | < 0.1 | 235 | 695 | 1270 | 124 | 413 | 64.3 | 54.4 | 6.5 | 31.9 | 84.2 | 0.6 | 1.2 | 6.6 |
| 92628 | 2.8 | 76.8 | 14.6 | 306 | 188 | 14.6 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 657 | 44.8 | 89.4 | 10.0 | 35.6 | 6.0 | 4.7 | 0.6 | 3.2 | 29.4 | 0.1 | 0.2 | 1.2 |
| 92629 | 2.3 | 71.8 | 14.9 | 235 | 151 | 1.9 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 553 | 61.7 | 120 | 13.4 | 47.9 | 7.4 | 5.3 | 0.6 | 3.4 | 34.3 | 0.2 | 0.2 | 1.3 |
| 92630 | 2.2 | 81.7 | 19.8 | 323 | 50 | 47.2 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 651 | 85.1 | 170 | 18.9 | 66.5 | 10.3 | 7.8 | 0.9 | 4.6 | 20.4 | 0.2 | 0.3 | 1.6 |
| 92631 | 2.7 | 80.3 | 17.1 | 331 | 35 | 59.4 | 0.6 | < 0.1 | 1 | 0.3 | 0.1 | 672 | 70.6 | 150 | 16.8 | 59.3 | 9.1 | 6.7 | 0.8 | 4.0 | 17.4 | 0.2 | 0.3 | 1.4 |
| 92632 | 2.2 | 75.0 | 11.5 | 281 | 189 | 18.3 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 625 | 35.0 | 72.0 | 7.9 | 28.6 | 4.8 | 3.8 | 0.4 | 2.4 | 13.8 | 0.1 | 0.2 | 1.0 |
| 92633 | 2.4 | 74.3 | 8.2 | 291 | 158 | 5.2 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 616 | 19.4 | 38.3 | 4.3 | 15.4 | 2.6 | 2.2 | 0.3 | 1.6 | 6.7 | 0.1 | 0.1 | 0.8 |
| 92634 | 2.8 | 78.4 | 21.4 | 346 | 23 | 26.5 | 2.7 | < 0.1 | 1 | 0.2 | 0.1 | 699 | 99.5 | 204 | 22.3 | 78.4 | 11.6 | 8.6 | 1.0 | 5.1 | 24.2 | 0.2 | 0.3 | 1.6 |
| 92635 | 3.3 | 65.0 | 41.6 | 521 | 1 | 0.4 | 12.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 520 | 324 | 712 | 73.8 | 250 | 33.5 | 22.7 | 2.3 | 11.2 | 14.5 | 0.5 | 0.5 | 2.5 |
| 92636 | 2.9 | 64.1 | 11.9 | 287 | 119 | 33.0 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 642 | 37.7 | 79.1 | 8.9 | 31.5 | 5.2 | 3.9 | 0.5 | 2.7 | 17.6 | 0.4 | 0.2 | 1.0 |
| 92637 | 1.8 | 71.4 | 8.2 | 240 | 173 | 7.4 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 613 | 18.2 | 36.9 | 4.2 | 15.5 | 2.7 | 2.2 | 0.3 | 1.6 | 10.0 | 0.1 | 0.1 | 0.8 |
| 92638 | 2.0 | 63.7 | 25.3 | 399 | 9 | 2.1 | 11.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 600 | 104 | 229 | 26.0 | 93.5 | 14.3 | 10.6 | 1.2 | 6.3 | 30.1 | 0.3 | 0.3 | 1.8 |
| 92639 | 3.6 | 83.3 | 43.2 | 565 | 74 | 139 | 2.7 | < 0.1 | < 1 | 0.1 | 0.2 | 731 | 243 | 568 | 62.3 | 226 | 33.0 | 22.6 | 2.4 | 11.4 | 25.3 | 0.9 | 0.5 | 2.7 |
| 92640 | 1.9 | 64.2 | 10.6 | 291 | 139 | 5.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 588 | 27.0 | 56.9 | 6.0 | 21.8 | 3.8 | 3.0 | 0.4 | 2.1 | 11.6 | < 0.1 | 0.2 | 0.9 |
| 92641 | 2.6 | 70.3 | 11.2 | 320 | 72 | 3.8 | 0.4 | < 0.1 | < 1 | 0.2 | 0.2 | 649 | 32.0 | 68.1 | 7.3 | 25.9 | 4.3 | 3.6 | 0.4 | 2.4 | 11.4 | < 0.1 | 0.2 | 1.0 |
| 92642 | 1.4 | 73.3 | 11.0 | 315 | 100 | 2.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 646 | 26.9 | 56.9 | 6.1 | 22.2 | 3.9 | 3.1 | 0.4 | 2.3 | 8.9 | < 0.1 | 0.2 | 1.1 |
| 92643 | 2.5 | 78.8 | 12.3 | 329 | 199 | 5.7 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 678 | 31.2 | 63.1 | 6.9 | 25.0 | 4.4 | 3.5 | 0.4 | 2.5 | 12.9 | < 0.1 | 0.2 | 1.1 |
| 92644 | 1.9 | 68.8 | 11.4 | 317 | 165 | 4.5 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 640 | 31.6 | 65.4 | 7.2 | 26.2 | 4.5 | 3.6 | 0.4 | 2.4 | 10.1 | < 0.1 | 0.2 | 1.0 |
| 92645 | 1.8 | 77.7 | 11.0 | 323 | 175 | 4.0 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 653 | 27.9 | 57.0 | 6.3 | 22.4 | 3.9 | 3.1 | 0.4 | 2.2 | 10.2 | 0.1 | 0.2 | 0.9 |
| 92646 | 4.0 | 67.0 | 73.7 | 612 | 7 | 0.7 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 553 | 384 | 977 | 110 | 401 | 59.5 | 42.6 | 4.5 | 21.3 | 15.0 | 0.6 | 0.9 | 4.5 |
| 92647 | 2.6 | 37.7 | 22.5 | 416 | 118 | 24.2 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 539 | 69.8 | 170 | 21.0 | 78.5 | 12.9 | 9.9 | 1.2 | 6.6 | 15.2 | 0.5 | 0.3 | 1.8 |
| 92648 | 2.6 | 65.8 | 14.9 | 331 | 212 | 39.8 | 0.6 | < 0.1 | < 1 | 0.1 | < 0.1 | 673 | 41.4 | 88.0 | 9.9 | 36.4 | 6.3 | 4.8 | 0.6 | 3.5 | 18.0 | 0.1 | 0.2 | 1.2 |
| 92649 | 2.4 | 78.9 | 13.0 | 318 | 191 | 7.3 | 1.2 | < 0.1 | < 1 | 0.1 | < 0.1 | 669 | 36.6 | 73.5 | 8.3 | 29.8 | 5.1 | 4.0 | 0.5 | 2.7 | 17.6 | < 0.1 | 0.2 | 1.1 |
| 92650 | 3.8 | 79.3 | 8.6 | 341 | 168 | 34.1 | 1.5 | < 0.1 | < 1 | 0.1 | < 0.1 | 692 | 59.5 | 121 | 13.0 | 43.2 | 5.5 | 3.7 | 0.4 | 1.9 | 4.7 | < 0.1 | 0.1 | 0.8 |
| 92651 | 3.5 | 56.6 | 27.3 | 303 | 101 | 79.7 | 4.6 | < 0.1 | 2 | 0.1 | 0.2 | 531 | 261 | 460 | 47.9 | 160 | 22.0 | 15.7 | 1.6 | 7.7 | 26.8 | 0.3 | 0.3 | 1.9 |
| 92652 | 3.4 | 53.1 | 40.5 | 282 | 93 | 80.7 | 9.9 | 0.1 | 2 | 0.1 | 0.1 | 557 | 366 | 692 | 69.0 | 229 | 30.0 | 20.7 | 2.0 | 10.3 | 61.4 | 0.5 | 0.5 | 2.8 |
| 92653 | 2.9 | 44.3 | 51.9 | 327 | 77 | 164 | 9.4 | < 0.1 | 1 | 0.2 | 0.3 | 463 | 437 | 888 | 89.4 | 303 | 40.1 | 27.7 | 2.9 | 14.5 | 34.9 | 1.1 | 0.6 | 3.0 |
| 92654 | 2.5 | 70.3 | 26.3 | 368 | 96 | 43.5 | 3.2 | < 0.1 | 1 | 0.2 | 0.2 | 635 | 156 | 290 | 31.5 | 107 | 15.8 | 11.7 | 1.3 | 6.6 | 34.9 | 0.3 | 0.3 | 1.8 |
| 92655 | 1.1 | 60.6 | 34.9 | 318 | 32 | 86.2 | 2.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 542 | 234 | 450 | 50.9 | 177 | 26.3 | 18.9 | 1.9 | 9.6 | 36.8 | 0.6 | 0.4 | 2.3 |
| 92656 | 1.6 | 35.7 | 6.2 | 219 | 166 | 80.2 | 1.8 | < 0.1 | < 1 | 0.1 | < 0.1 | 551 | 26.6 | 61.1 | 7.0 | 25.3 | 4.0 | 2.7 | 0.3 | 1.7 | 9.1 | 0.2 | 0.1 | 0.7 |
| 92657 | 1.4 | 58.1 | 12.3 | 269 | 182 | 13.8 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 546 | 35.0 | 71.3 | 8.1 | 29.1 | 5.0 | 4.0 | 0.5 | 2.7 | 18.1 | 0.1 | 0.2 | 1.1 |
| 92658 | 4.0 | 44.6 | 112 | 704 | 10 | 45.3 | 107 | 0.3 | 3 | < 0.1 | < 0.1 | 328 | 3460 | 5230 | 480 | 1440 | > 100 | 109 | 9.1 | 36.6 | 35.1 | 2.0 | 1.2 | 5.7 |
| 92659 | 3.9 | 72.0 | 27.3 | 377 | 88 | 59.1 | 4.1 | < 0.1 | 1 | 0.1 | 0.1 | 596 | 138 | 261 | 28.3 | 97.1 | 14.3 | 10.8 | 1.2 | 6.4 | 52.4 | 0.3 | 0.4 | 2.0 |
| 92660 | 2.8 | 64.5 | 14.5 | 299 | 63 | 58.9 | 1.2 | < 0.1 | 1 | < 0.1 | 0.1 | 613 | 50.7 | 106 | 11.8 | 41.6 | 6.8 | 5.2 | 0.6 | 3.4 | 28.3 | 0.2 | 0.2 | 1.2 |
| 92661 | 2.6 | 71.3 | 10.1 | 292 | 193 | 4.0 | 0.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 637 | 25.2 | 53.4 | 5.7 | 20.6 | 3.8 | 3.0 | 0.4 | 2.2 | 14.6 | 0.1 | 0.2 | 0.9 |
| 92662 | 2.1 | 83.7 | 36.7 | 324 | 20 | 13.2 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 526 | 113 | 218 | 24.7 | 89.5 | 15.5 | 14.3 | 1.8 | 9.8 | 40.4 | 0.6 | 0.4 | 2.1 |
| 92663 | 2.1 | 82.8 | 9.1 | 288 | 166 | 4.2 | 0.6 | < 0.1 | < 1 | 0.2 | < 0.1 | 663 | 25.3 | 51.2 | 5.6 | 20.3 | 3.5 | 2.8 | 0.3 | 1.9 | 11.7 | 0.2 | 0.1 | 0.8 |
| 92664 | 2.1 | 80.7 | 10.0 | 304 | 175 | 4.5 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 676 | 26.3 | 55.5 | 5.9 | 20.8 | 3.8 | 3.0 | 0.4 | 2.1 | 11.7 | 0.2 | 0.2 | 0.9 |
| 92665 | 5.8 | 15.9 | 114 | > 1000 | 5 | 2.9 | 10.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 1240 | 1090 | 2420 | 259 | 919 | > 100 | 81.0 | 7.6 | 34.6 | 14.0 | 1.3 | 1.2 | 5.8 |
| 92666 | 2.4 | 71.9 | 6.7 | 215 | 168 | 15.1 | 0.9 | < 0.1 | 1 | 0.1 | 0.1 | 631 | 16.9 | 39.0 | 4.7 | 17.2 | 2.9 | 2.4 | 0.3 | 1.6 | 18.7 | 0.1 | 0.1 | 0.7 |
| 92667 | 2.3 | 82.6 | 17.4 | 340 | 181 | 68.6 | 1.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 704 | 63.7 | 149 | 16.5 | 59.5 | 9.3 | 7.1 | 0.8 | 4.1 | 15.2 | 0.2 | 0.2 | 1.4 |
| 92668 | 2.4 | 73.9 | 9.8 | 321 | 170 | 6.7 | 0.7 | < 0.1 | < 1 | 0.1 | < 0.1 | 671 | 27.5 | 56.4 | 6.2 | 21.9 | 3.8 | 3.0 | 0.4 | 2.1 | 13.2 | < 0.1 | 0.2 | 0.9 |
| 92669 | 2.2 | 85.6 | 11.9 | 327 | 175 | 7.0 | 0.3 | < 0.1 | < 1 | 0.1 | < 0.1 | 723 | 34.5 | 70.3 | 7.9 | 28.2 | 4.9 | 4.0 | 0.5 | 2.6 | 15.2 | < 0.1 | 0.2 | 1.0 |
| 92670 | 1.5 | 70.1 | 12.8 | 309 | 201 | 1.1 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 627 | 32.3 | 66.0 | 7.5 | 27.8 | 4.9 | 3.9 | 0.5 | 2.8 | 10.0 | < 0.1 | 0.2 | 1.1 |
| 92671 | 3.2 | 85.2 | 13.2 | 356 | 193 | 4.7 | 0.6 | < 0.1 | < 1 | 0.1 | < 0.1 | 748 | 32.2 | 62.8 | 7.4 | 26.7 | 4.6 | 3.8 | 0.5 | 2.6 | 21.1 | < 0.1 | 0.2 | 1.1 |
| 92672 | 1.7 | 63.0 | 17.0 | 369 | 68 | 75.9 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.2 | 630 | 62.8 | 143 | 15.9 | 55.6 | 8.7 | 6.7 | 0.8 | 4.2</ | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92126 | 1.2 | 65.8 | 16.6 | 214 | 126 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 501 | 48.3 | 95.4 | 10.8 | 39.5 | 6.7 | 5.8 | 0.7 | 3.8 | 63.9 | 0.3 | 0.2 | 1.3 |
| 92127 | 0.9 | 44.5 | 11.7 | 278 | 114 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 389 | 33.4 | 64.1 | 7.1 | 25.6 | 4.2 | 3.5 | 0.4 | 2.5 | 9.5 | 0.3 | 0.2 | 1.1 |
| 92128 | 0.8 | 56.9 | 13.6 | 266 | 103 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 573 | 40.9 | 75.0 | 8.9 | 31.9 | 5.5 | 4.6 | 0.6 | 3.1 | 37.4 | 0.3 | 0.2 | 1.2 |
| 92129 | 2.1 | 52.8 | 12.0 | 224 | 192 | 23.9 | 1.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 575 | 29.0 | 61.5 | 7.1 | 26.0 | 4.8 | 3.9 | 0.5 | 2.8 | 41.3 | 0.7 | 0.2 | 1.3 |
| 92130 | 2.3 | 62.7 | 8.9 | 266 | 203 | 5.6 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 584 | 19.8 | 42.5 | 4.9 | 18.2 | 3.2 | 2.6 | 0.3 | 1.8 | 11.6 | 0.2 | 0.2 | 0.9 |
| 92131 | 1.3 | 66.9 | 28.0 | 269 | 142 | 1.2 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 478 | 79.8 | 162 | 18.3 | 67.7 | 11.5 | 9.9 | 1.2 | 6.4 | 77.8 | 0.3 | 0.4 | 2.4 |
| 92132 | 1.4 | 57.7 | 10.0 | 245 | 6 | 2.4 | 6.0 | < 0.1 | < 1 | 0.1 | < 0.1 | 668 | 23.2 | 37.5 | 5.1 | 18.2 | 3.3 | 2.8 | 0.4 | 2.1 | 45.4 | < 0.1 | 0.1 | 0.8 |
| 92133 | 2.6 | 76.1 | 14.7 | 224 | 200 | 0.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 527 | 35.6 | 76.6 | 8.3 | 29.9 | 5.2 | 4.5 | 0.6 | 3.2 | 50.5 | 0.2 | 0.2 | 1.4 |
| 92134 | 4.4 | 58.1 | 14.0 | 306 | 276 | 3.8 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 544 | 40.0 | 82.7 | 9.2 | 33.3 | 5.6 | 4.5 | 0.5 | 3.0 | 15.6 | 0.2 | 0.2 | 1.4 |
| 92135 | 2.5 | 72.4 | 13.4 | 256 | 144 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 584 | 37.6 | 76.2 | 8.6 | 30.8 | 5.3 | 4.2 | 0.5 | 2.8 | 29.2 | 0.2 | 0.2 | 1.1 |
| 92136 | 1.5 | 61.3 | 16.5 | 198 | 121 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 513 | 43.7 | 86.3 | 10.0 | 36.6 | 6.3 | 5.3 | 0.7 | 3.7 | 54.3 | 0.2 | 0.3 | 1.4 |
| 92137 | 1.3 | 59.1 | 16.7 | 202 | 106 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 530 | 38.5 | 76.4 | 9.0 | 33.4 | 5.9 | 5.1 | 0.7 | 3.7 | 84.7 | 0.3 | 0.2 | 1.5 |
| 92138 | 3.4 | 49.0 | 47.1 | 325 | 175 | 28.9 | 3.5 | 0.1 | < 1 | < 0.1 | < 0.1 | 646 | 144 | 260 | 32.3 | 118 | 20.5 | 17.0 | 2.1 | 11.0 | 114 | 0.3 | 0.6 | 3.0 |
| 92139 | 2.1 | 51.8 | 18.6 | 222 | 129 | 0.8 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 478 | 67.3 | 129 | 14.5 | 52.5 | 8.6 | 7.0 | 0.8 | 4.6 | 73.8 | 0.2 | 0.3 | 1.5 |
| 92140 | 1.0 | 58.6 | 33.0 | 406 | 150 | 18.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 1220 | 134 | 227 | 22.5 | 73.8 | 11.6 | 10.1 | 1.3 | 7.4 | 82.6 | 0.4 | 0.4 | 2.2 |
| 92141 | 0.9 | 43.6 | 22.5 | 231 | 103 | 3.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 502 | 57.3 | 107 | 13.0 | 47.9 | 8.8 | 7.9 | 1.0 | 5.7 | 59.0 | 0.3 | 0.3 | 1.7 |
| 92142 | 0.8 | 40.8 | 15.9 | 212 | 114 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 48.6 | 98.4 | 10.2 | 37.0 | 6.2 | 5.1 | 0.7 | 3.7 | 39.5 | 0.2 | 0.2 | 1.3 |
| 92143 | 1.2 | 33.9 | 26.0 | 307 | 53 | 0.8 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 713 | 70.2 | 138 | 16.3 | 60.4 | 10.6 | 9.2 | 1.1 | 6.2 | 107 | 0.3 | 0.3 | 1.9 |
| 92144 | 0.8 | 36.3 | 21.6 | 237 | 74 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 434 | 47.2 | 90.9 | 11.1 | 41.4 | 7.5 | 6.7 | 0.9 | 4.8 | 110 | 0.3 | 0.3 | 1.7 |
| 92145 | 0.9 | 25.4 | 24.6 | 222 | 82 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 429 | 50.5 | 125 | 12.5 | 48.0 | 8.7 | 7.6 | 1.0 | 5.6 | 166 | 0.3 | 0.4 | 1.9 |
| 92146 | 0.4 | 6.7 | 21.7 | 320 | 27 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 516 | 23.5 | 43.2 | 5.9 | 23.2 | 4.7 | 4.9 | 0.7 | 4.6 | 63.1 | 0.2 | 0.3 | 1.8 |
| 92147 | 0.7 | 19.4 | 19.0 | 240 | 109 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 339 | 50.8 | 114 | 11.5 | 41.4 | 7.0 | 6.1 | 0.8 | 4.4 | 91.3 | 0.2 | 0.3 | 1.6 |
| 92148 | 1.2 | 7.9 | 10.1 | 184 | 173 | 48.5 | 0.8 | < 0.1 | 1 | < 0.1 | 0.1 | 433 | 14.0 | 36.4 | 4.9 | 20.4 | 4.2 | 3.8 | 0.6 | 3.3 | 96.1 | 1.4 | 0.2 | 1.3 |
| 92149 | 1.4 | 40.2 | 16.0 | 206 | 151 | 3.8 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 507 | 32.7 | 65.0 | 8.0 | 30.5 | 5.6 | 5.1 | 0.7 | 3.6 | 68.2 | 0.2 | 0.2 | 1.4 |
| 92150 | 1.5 | 55.1 | 41.2 | 292 | 53 | 1.0 | 3.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 912 | 209 | 391 | 42.5 | 146 | 21.9 | 18.0 | 2.1 | 10.9 | 58.0 | 0.3 | 0.5 | 2.6 |
| 92151 | 148 | 68.9 | 11.0 | 175 | 215 | 4.1 | 9.8 | < 0.1 | 2 | 0.8 | < 0.1 | 404 | 25.6 | 54.2 | 5.1 | 18.5 | 3.2 | 2.8 | 0.4 | 2.4 | 65.4 | 0.7 | 0.2 | 1.1 |
| 92152 | 2.1 | 46.4 | 20.1 | 194 | 115 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 64.8 | 118 | 13.6 | 49.5 | 8.3 | 7.2 | 0.9 | 4.8 | 70.6 | 0.3 | 0.3 | 1.6 |
| 92153 | 0.6 | 48.9 | 11.3 | 190 | 86 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 361 | 36.3 | 70.3 | 7.2 | 25.2 | 4.1 | 3.4 | 0.4 | 2.5 | 17.9 | 0.2 | 0.2 | 1.1 |
| 92154 | 1.1 | 38.5 | 22.5 | 206 | 118 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 405 | 58.0 | 106 | 12.9 | 48.1 | 8.4 | 7.4 | 0.9 | 5.2 | 85.2 | 0.3 | 0.3 | 1.7 |
| 92155 | < 0.1 | 14.9 | 17.8 | 196 | 66 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 259 | 22.0 | 46.0 | 6.2 | 25.2 | 5.5 | 5.1 | 0.7 | 4.0 | 37.4 | 0.3 | 0.2 | 1.4 |
| 92156 | 0.1 | 10.4 | 16.9 | 344 | 34 | 0.3 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1010 | 38.1 | 74.8 | 9.6 | 37.0 | 6.8 | 5.9 | 0.7 | 4.0 | 76.1 | 0.4 | 0.2 | 1.2 |
| 92157 | 0.5 | 28.9 | 55.4 | 586 | 172 | 0.1 | 0.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 574 | 337 | 785 | 86.6 | 310 | 45.9 | 33.1 | 3.4 | 16.1 | 121 | 0.7 | 0.6 | 3.3 |
| 92158 | 2.1 | 12.3 | 8.0 | 209 | 156 | 36.2 | 1.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 471 | 11.9 | 28.0 | 3.7 | 14.5 | 2.9 | 2.7 | 0.4 | 2.3 | 66.8 | 0.7 | 0.2 | 1.0 |
| 92159 | 1.0 | 28.2 | 16.0 | 210 | 156 | 8.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 441 | 28.7 | 64.5 | 8.2 | 32.4 | 6.2 | 5.4 | 0.7 | 4.0 | 85.8 | 0.4 | 0.3 | 1.5 |
| 92160 | 0.1 | 26.0 | 14.3 | 222 | 135 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 340 | 39.3 | 83.9 | 9.2 | 33.6 | 5.8 | 4.8 | 0.6 | 3.4 | 43.1 | 0.2 | 0.2 | 1.3 |
| 92161 | 1.4 | 53.3 | 17.8 | 213 | 118 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 445 | 43.5 | 82.5 | 10.1 | 37.4 | 6.7 | 5.6 | 0.7 | 4.1 | 53.0 | 0.2 | 0.3 | 1.5 |
| 92162 | 0.5 | 51.9 | 20.2 | 224 | 114 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 49.7 | 99.2 | 11.7 | 43.3 | 7.6 | 6.6 | 0.8 | 4.8 | 69.9 | 0.2 | 0.3 | 1.6 |
| 92163 | 0.5 | 15.2 | 21.7 | 207 | 168 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 284 | 29.0 | 65.4 | 8.1 | 32.7 | 6.9 | 6.6 | 0.9 | 5.4 | 34.1 | 0.3 | 0.3 | 1.5 |
| 92164 | 0.9 | 59.3 | 18.2 | 217 | 103 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 475 | 45.0 | 85.8 | 10.8 | 40.0 | 7.0 | 6.0 | 0.7 | 4.3 | 68.6 | 0.4 | 0.3 | 1.5 |
| 92165 | 1.1 | 59.7 | 16.0 | 188 | 84 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 459 | 37.2 | 80.2 | 8.9 | 32.9 | 6.0 | 5.3 | 0.7 | 3.7 | 80.5 | 0.5 | 0.2 | 1.3 |
| 92166 | 0.9 | 79.5 | 14.7 | 211 | 122 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 501 | 31.6 | 60.4 | 7.3 | 26.6 | 5.0 | 4.2 | 0.6 | 3.2 | 39.0 | 0.5 | 0.2 | 1.2 |
| 92167 | 3.5 | 143 | 39.2 | 422 | 231 | 1.2 | 0.3 | 0.1 | 1 | < 0.1 | < 0.1 | 1040 | 101 | 196 | 23.0 | 83.6 | 14.5 | 12.4 | 1.5 | 8.8 | 178 | 0.8 | 0.6 | 3.2 |
| 92168 | 1.2 | 26.8 | 9.5 | 210 | 198 | 43.1 | 0.7 | < 0.1 | 1 | 0.1 | < 0.1 | 558 | 40.0 | 94.2 | 11.8 | 43.7 | 7.0 | 5.0 | 0.5 | 2.7 | 42.1 | 0.3 | 0.2 | 1.0 |
| 92169 | 3.3 | 65.8 | 13.1 | 268 | 245 | 6.0 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 548 | 33.8 | 67.1 | 8.0 | 28.4 | 4.9 | 3.9 | 0.5 | 2.7 | 18.8 | 0.1 | 0.2 | 1.2 |
| 92170 | 2.7 | 73.0 | 16.2 | 227 | 144 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 539 | 50.1 | 105 | 12.0 | 43.0 | 7.0 | 5.4 | 0.6 | 3.6 | 56.8 | 0.2 | 0.3 | 1.4 |
| 92171 | 1.6 | 25.8 | 16.9 | 124 | 115 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 221 | 31.7 | 71.0 | 8.8 | 34.9 | 6.4 | 5.4 | 0.7 | 3.8 | 17.3 | 0.2 | 0.3 | 1.6 |
| 92172 | 1.1 | 69.9 | 10.8 | 186 | 147 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 429 | 29.8 | 59.1 | 6.9 | 25.0 | 4.4 | 3.6 | 0.4 | 2.4 | 13.2 | 0.2 | 0.2 | 1.1 |
| 92173 | 4.4 | 77.3 | 12.8 | 263 | 118 | 0.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 615 | 33.2 | 65.2 | 7.4 | 26.7 | 4.6 | 3.7 | 0.5 | 2.7 | 27.1 | 0.4 | 0.2 | 1.1 |
| 92174 | 2.6 | 91.2 | 11.8 | 264 | 119 | 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 664 | 33.3 | 65.9 | 7.6 | 26.8 | 4.5 | 3.6 | 0.4 | 2.5 | 22.1 | 0.4 | 0.2 | 1.0 |
| 92175 | 1.2 | 47.1 | 17.2 | 152 | 101 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 51.8 | 107 | 12.3 | 44.4 | 7.7 | 6.2 | 0.7 | 4.2 | 71.3 | 0.3 | 0.3 | 1.5 |
| 92176 | 0.9 | 20.9 | 8.2 | 65.6 | 163 | 59.5 | 0.8 | < 0.1 | 1 | < 0.1 | 0.2 | 286 | 10.9 | 31.3 | 4.3 | 19.0 | 4.4 | 4.0 | 0.6 | 3.0 | 66.0 | 1.6 | 0.2 | 1.0 |
| 92177 | 1.2 | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92178 | 1.0 | 9.7 | 9.6 | 62.9 | 136 | 2.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 187 | 18.9 | 46.5 | 5.9 | 23.4 | 4.6 | 4.0 | 0.5 | 2.8 | 49.5 | 0.3 | 0.2 | 1.1 |
| 92179 | 0.7 | 28.5 | 15.5 | 71.0 | 174 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 118 | 54.7 | 111 | 13.2 | 49.1 | 8.6 | 6.7 | 0.8 | 3.9 | 18.0 | 0.3 | 0.2 | 1.3 |
| 92180 | 0.4 | 53.7 | 11.3 | 86.0 | 140 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 248 | 62.1 | 127 | 14.7 | 53.5 | 8.6 | 6.1 | 0.6 | 2.9 | 57.3 | 0.3 | 0.2 | 1.1 |
| 92181 | 0.9 | 57.8 | 11.2 | 214 | 150 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 453 | 50.4 | 98.5 | 11.0 | 38.0 | 6.1 | 4.4 | 0.5 | 2.5 | 27.4 | 0.3 | 0.2 | 1.0 |
| 92182 | 0.3 | 34.9 | 8.0 | 103 | 154 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 311 | 40.6 | 82.5 | 9.7 | 35.3 | 5.5 | 4.0 | 0.4 | 1.9 | 26.6 | 0.2 | 0.1 | 1.0 |
| 92183 | 1.0 | 60.3 | 18.1 | 174 | 123 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 432 | 54.3 | 109 | 12.5 | 45.7 | 7.9 | 6.6 | 0.8 | 4.2 | 94.9 | 0.4 | 0.3 | 1.4 |
| 92184 | 4.3 | 158 | 25.0 | 474 | 273 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1110 | 66.2 | 132 | 14.9 | 53.9 | 9.4 | 7.7 | 0.9 | 5.3 | 85.1 | 0.5 | 0.4 | 2.3 |
| 92185 | 2.7 | 81.7 | 10.5 | 236 | 148 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 567 | 26.5 | 52.0 | 5.8 | 20.9 | 3.6 | 3.0 | 0.4 | 2.2 | 37.4 | 0.3 | 0.2 | 1.0 |
| 92186 | 0.7 | 4.3 | 11.4 | 363 | 53 | 34.7 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 420 | 15.2 | 34.9 | 4.2 | 16.5 | 3.4 | 3.3 | 0.5 | 3.2 | 151 | 1.2 | 0.2 | 1.5 |
| 92187 | 1.7 | 25.9 | 11.7 | 160 | 165 | 2.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 23.9 | 54.3 | 6.8 | 25.6 | 4.6 | 3.8 | 0.5 | 2.9 | 70.4 | 0.4 | 0.2 | 1.2 |
| 92188 | 1.4 | 53.5 | 12.3 | 178 | 179 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 408 | 43.1 | 92.3 | 9.7 | 34.2 | 5.7 | 4.3 | 0.5 | 2.9 | 39.6 | 0.3 | 0.2 | 1.1 |
| 92189 | 1.2 | 55.7 | 13.8 | 240 | 157 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 504 | 36.3 | 75.7 | 8.4 | 30.6 | 5.3 | 4.5 | 0.6 | 3.1 | 37.9 | 0.2 | 0.2 | 1.2 |
| 92190 | 2.2 | 69.2 | 10.3 | 269 | 176 | 4.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 585 | 26.1 | 53.1 | 5.9 | 20.9 | 3.7 | 3.0 | 0.4 | 2.2 | 15.6 | 0.2 | 0.2 | 0.9 |
| 92191 | 2.4 | 52.1 | 11.4 | 210 | 150 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 445 | 41.2 | 83.5 | 9.2 | 33.1 | 5.3 | 4.1 | 0.5 | 2.5 | 22.2 | 0.3 | 0.2 | 1.0 |
| 92192 | 1.0 | 52.5 | 14.7 | 251 | 160 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 464 | 44.6 | 89.5 | 10.1 | 35.9 | 6.0 | 4.8 | 0.6 | 3.3 | 17.1 | 0.3 | 0.2 | 1.5 |
| 92193 | 0.7 | 37.4 | 13.3 | 146 | 191 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 303 | 53.3 | 106 | 11.7 | 41.8 | 6.9 | 5.2 | 0.6 | 3.1 | 48.6 | 0.3 | 0.2 | 1.3 |
| 92194 | 0.5 | 35.2 | 15.5 | 150 | 101 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 342 | 52.8 | 125 | 12.1 | 44.8 | 7.4 | 5.8 | 0.7 | 3.8 | 88.2 | 0.3 | 0.2 | 1.3 |
| 92195 | 1.6 | 59.3 | 15.6 | 212 | 142 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 495 | 45.7 | 99.5 | 9.9 | 35.7 | 6.1 | 5.3 | 0.6 | 3.6 | 77.0 | 0.4 | 0.2 | 1.3 |
| 92196 | 1.4 | 71.7 | 12.3 | 252 | 157 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 587 | 32.4 | 65.1 | 7.3 | 26.0 | 4.5 | 3.7 | 0.4 | 2.6 | 24.9 | 0.3 | 0.2 | 1.1 |
| 92197 | 1.1 | 1.8 | 3.8 | 101 | 156 | 34.9 | 0.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 178 | 4.8 | 12.2 | 1.6 | 6.3 | 1.2 | 1.1 | 0.2 | 1.1 | 30.3 | 1.2 | 0.1 | 0.7 |
| 92198 | 1.8 | 16.5 | 12.6 | 163 | 177 | 23.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 348 | 27.1 | 61.6 | 7.6 | 28.9 | 5.2 | 4.3 | 0.6 | 3.3 | 49.2 | 0.8 | 0.2 | 1.2 |
| 92199 | 1.0 | 21.8 | 12.7 | 159 | 133 | 2.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 347 | 38.5 | 85.0 | 9.5 | 35.2 | 5.9 | 4.7 | 0.6 | 3.1 | 39.8 | 0.4 | 0.2 | 1.1 |
| 92200 | 0.2 | 35.6 | 20.8 | 181 | 101 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 333 | 48.6 | 91.1 | 11.3 | 42.2 | 7.5 | 6.6 | 0.9 | 5.0 | 94.3 | 0.4 | 0.3 | 1.8 |
| 92201 | 0.6 | 16.2 | 18.0 | 230 | 115 | 4.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 374 | 54.3 | 106 | 11.4 | 41.4 | 6.7 | 5.9 | 0.7 | 4.2 | 82.3 | 0.6 | 0.3 | 1.5 |
| 92202 | 0.7 | 45.5 | 19.8 | 192 | 104 | 2.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 437 | 48.4 | 93.3 | 11.5 | 43.5 | 7.8 | 6.7 | 0.8 | 4.6 | 110 | 0.6 | 0.3 | 1.6 |
| 92203 | 0.9 | 50.0 | 19.5 | 202 | 97 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 447 | 45.5 | 90.0 | 10.6 | 39.6 | 7.1 | 6.3 | 0.8 | 4.6 | 76.5 | 0.5 | 0.3 | 1.6 |
| 92376 | 3.5 | 44.2 | 28.4 | 174 | 129 | 10.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 455 | 102 | 187 | 22.4 | 79.5 | 13.5 | 11.0 | 1.3 | 6.8 | 82.0 | 0.7 | 0.4 | 2.0 |
| 92377 | 1.4 | 44.2 | 20.2 | 230 | 129 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 470 | 66.7 | 134 | 14.5 | 52.6 | 8.9 | 7.3 | 0.9 | 4.9 | 37.7 | 0.4 | 0.3 | 1.5 |
| 92378 | 2.8 | 20.3 | 43.1 | 375 | 239 | 88.2 | 4.5 | 0.1 | 1 | < 0.1 | 0.2 | 682 | 169 | 314 | 37.0 | 132 | 22.2 | 18.2 | 2.2 | 11.7 | 121 | 1.1 | 0.6 | 3.3 |
| 92379 | 2.9 | 60.0 | 71.6 | 262 | 228 | 32.0 | 12.0 | 0.2 | < 1 | < 0.1 | 0.1 | 645 | 370 | 672 | 75.1 | 258 | 43.8 | 34.2 | 3.9 | 19.4 | 57.6 | 0.7 | 0.9 | 4.8 |
| 92380 | 6.8 | 78.9 | 45.2 | 378 | 200 | 48.4 | 3.6 | 0.1 | 2 | < 0.1 | < 0.1 | 650 | 198 | 363 | 41.8 | 148 | 23.9 | 18.8 | 2.2 | 11.2 | 81.3 | 0.4 | 0.6 | 2.9 |
| 92381 | 2.6 | 44.2 | 32.9 | 210 | 189 | 106 | 1.2 | < 0.1 | 2 | < 0.1 | 0.1 | 552 | 233 | 453 | 43.6 | 148 | 20.6 | 15.7 | 1.7 | 8.7 | 29.6 | 0.4 | 0.4 | 2.4 |
| 92382 | 3.4 | 69.8 | 39.5 | 247 | 199 | 61.8 | 2.4 | < 0.1 | 2 | 0.2 | 0.1 | 643 | 171 | 311 | 36.4 | 129 | 20.6 | 16.1 | 1.9 | 9.7 | 57.5 | 0.7 | 0.5 | 2.7 |
| 92383 | 2.1 | 65.3 | 24.4 | 243 | 166 | 37.4 | 1.9 | < 0.1 | 2 | 0.2 | < 0.1 | 512 | 107 | 210 | 23.0 | 80.8 | 12.9 | 10.3 | 1.2 | 6.1 | 42.5 | 0.5 | 0.3 | 1.8 |
| 92384 | 2.7 | 73.3 | 39.8 | 344 | 170 | 36.0 | 3.2 | 0.1 | 2 | 0.2 | 0.1 | 736 | 233 | 381 | 39.5 | 133 | 20.6 | 16.0 | 1.8 | 9.6 | 75.6 | 0.5 | 0.5 | 2.5 |
| 92385 | 3.1 | 71.0 | 40.1 | 235 | 170 | 34.0 | 4.5 | < 0.1 | 2 | 0.1 | < 0.1 | 560 | 155 | 299 | 32.8 | 115 | 18.8 | 15.2 | 1.8 | 9.5 | 92.7 | 0.6 | 0.5 | 3.0 |
| 92386 | 1.7 | 56.9 | 29.0 | 185 | 109 | 2.9 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 503 | 120 | 201 | 25.9 | 92.0 | 15.5 | 12.2 | 1.4 | 7.5 | 85.3 | 0.6 | 0.4 | 2.3 |
| 92387 | 1.6 | 10.1 | 7.7 | 139 | 176 | 103 | 2.8 | < 0.1 | 2 | 0.1 | 0.1 | 357 | 17.1 | 42.5 | 5.2 | 20.1 | 3.8 | 3.1 | 0.4 | 2.3 | 15.9 | 1.3 | 0.2 | 1.0 |
| 92388 | 2.1 | 29.4 | 37.0 | 216 | 210 | 12.3 | 1.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 642 | 129 | 278 | 29.7 | 108 | 18.3 | 15.1 | 1.8 | 9.5 | 73.6 | 0.5 | 0.5 | 2.9 |
| 92389 | 1.4 | 60.7 | 51.7 | 227 | 200 | 10.7 | 6.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 951 | 175 | 374 | 40.4 | 144 | 23.8 | 19.4 | 2.3 | 12.4 | 61.5 | 0.5 | 0.7 | 3.9 |
| 92390 | 2.7 | 55.2 | 47.1 | 265 | 164 | 3.2 | 1.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 846 | 163 | 366 | 38.2 | 138 | 23.6 | 19.3 | 2.4 | 12.5 | 55.8 | 0.4 | 0.7 | 3.7 |
| 92391 | 1.3 | 22.6 | 26.0 | 205 | 89 | 2.0 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 346 | 62.4 | 142 | 14.1 | 51.8 | 9.4 | 8.2 | 1.1 | 6.1 | 50.4 | 0.5 | 0.4 | 1.9 |
| 92392 | 1.8 | 61.4 | 43.9 | 331 | 131 | 31.9 | 1.8 | < 0.1 | 2 | < 0.1 | < 0.1 | 694 | 119 | 204 | 27.4 | 102 | 18.0 | 15.2 | 1.9 | 10.2 | 67.5 | 0.4 | 0.6 | 2.9 |
| 92393 | 1.4 | 52.3 | 22.7 | 293 | 99 | 3.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 557 | 59.8 | 146 | 14.1 | 52.6 | 9.1 | 7.6 | 0.9 | 5.2 | 39.7 | 0.5 | 0.3 | 1.9 |
| 92394 | 1.1 | 50.5 | 23.1 | 313 | 60 | 2.8 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 436 | 53.0 | 111 | 12.6 | 47.3 | 8.5 | 7.4 | 0.9 | 5.1 | 36.6 | 0.6 | 0.3 | 1.8 |
| 92395 | 0.8 | 56.7 | 28.6 | 303 | 75 | 2.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 563 | 75.0 | 146 | 16.4 | 60.0 | 10.5 | 9.0 | 1.1 | 6.3 | 80.4 | 0.5 | 0.4 | 2.1 |
| 92396 | 0.4 | 25.8 | 9.8 | 780 | 9 | 2.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1040 | 13.6 | 29.6 | 3.7 | 14.4 | 2.9 | 2.8 | 0.4 | 2.2 | 7.1 | 0.3 | 0.1 | 0.7 |
| 92397 | 1.1 | 5.3 | 15.2 | 235 | 113 | 137 | 2.2 | < 0.1 | 2 | < 0.1 | 0.2 | 432 | 15.3 | 41.8 | 4.9 | 19.7 | 4.5 | 4.4 | 0.7 | 4.4 | 41.5 | 1.1 | 0.3 | 2.0 |
| 92398 | 1.0 | 33.2 | 26.5 | 272 | 98 | 74.3 | 2.7 | < 0.1 | 2 | < 0.1 | < 0.1 | 634 | 47.8 | 99.2 | 12.0 | 45.6 | 8.6 | 8.0 | 1.0 | 6.1 | 68.6 | 0.3 | 0.4 | 2.2 |
| 92399 | 1.1 | 33.4 | 24.4 | 237 | 85 | 18.5 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 524 | 36.9 | 82.8 | 9.8 | 37.7 | 7.4 | 6.8 | 0.9 | 5.4 | 52.1 | 0.3 | 0.4 | 2.4 |
| 92400 | 0.6 | 19.7 | 13.3 | 294 | 13 | 12.4 | 2.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 284 | 12.8 | 29.9 | 3.9 | 16.4 | 3.6 | 3.7 | 0.5 | 3.0 | 30.3 | 0.5 | 0.2 | 1.0 |
| 92401 | 1.0 | 38.8 | 14.4 | 201 | 96 | 8.2 | 0.5 | < 0.1 | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92402 | 0.8 | 101 | 33.9 | 209 | 70 | 8.7 | 1.8 | 0.2 | 2 | < 0.1 | < 0.1 | 312 | 91.3 | 174 | 17.5 | 62.3 | 10.1 | 8.8 | 1.2 | 7.2 | 98.2 | 0.8 | 0.5 | 2.9 |
| 92403 | 0.8 | 33.6 | 21.3 | 255 | 118 | 2.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 488 | 51.8 | 106 | 11.2 | 39.8 | 6.8 | 5.8 | 0.8 | 4.4 | 17.5 | 0.6 | 0.3 | 1.9 |
| 92404 | 1.3 | 54.5 | 19.5 | 239 | 150 | 9.7 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 530 | 62.6 | 118 | 13.4 | 48.4 | 8.2 | 6.9 | 0.8 | 4.5 | 33.8 | 0.5 | 0.3 | 1.5 |
| 92405 | 1.4 | 52.7 | 20.2 | 200 | 57 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 555 | 46.2 | 86.3 | 10.5 | 39.0 | 7.0 | 6.1 | 0.8 | 4.4 | 50.8 | 0.5 | 0.3 | 1.6 |
| 92406 | 3.7 | 6.8 | 5.8 | 168 | 101 | 43.2 | 1.1 | < 0.1 | 2 | 0.2 | 0.2 | 379 | 7.7 | 19.9 | 2.5 | 10.3 | 2.2 | 2.0 | 0.3 | 1.8 | 26.1 | 0.2 | 0.1 | 0.8 |
| 92407 | 0.4 | 14.1 | 21.3 | 268 | 124 | 6.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 405 | 48.0 | 98.7 | 12.1 | 44.7 | 8.2 | 7.2 | 0.9 | 5.4 | 27.1 | 0.3 | 0.3 | 1.9 |
| 92408 | < 0.1 | 19.4 | 22.0 | 259 | 89 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 336 | 48.3 | 103 | 10.9 | 40.9 | 7.5 | 6.7 | 0.9 | 5.1 | 26.7 | 0.2 | 0.3 | 1.7 |
| 92409 | 0.2 | 37.0 | 19.6 | 300 | 109 | 3.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 469 | 48.3 | 92.5 | 10.3 | 36.5 | 6.4 | 5.6 | 0.7 | 4.6 | 15.4 | 0.3 | 0.3 | 1.8 |
| 92410 | < 0.1 | 8.6 | 17.9 | 277 | 17 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 170 | 18.7 | 43.5 | 5.6 | 23.4 | 5.0 | 4.6 | 0.7 | 3.9 | 23.5 | 0.3 | 0.3 | 1.6 |
| 92411 | < 0.1 | 18.3 | 16.8 | 258 | 26 | 2.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 238 | 20.7 | 50.4 | 5.9 | 24.0 | 5.0 | 4.8 | 0.7 | 4.0 | 16.6 | 0.3 | 0.2 | 1.3 |
| 92412 | < 0.1 | 19.2 | 16.2 | 250 | 69 | 13.3 | 0.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 357 | 23.5 | 53.1 | 6.0 | 22.9 | 4.5 | 4.2 | 0.6 | 3.7 | 23.4 | 0.5 | 0.3 | 1.5 |
| 92413 | < 0.1 | 55.3 | 35.0 | 292 | 126 | 51.8 | 2.5 | < 0.1 | 2 | < 0.1 | 0.1 | 663 | 83.6 | 178 | 19.6 | 72.8 | 13.0 | 11.4 | 1.4 | 8.2 | 55.8 | 0.6 | 0.5 | 2.7 |
| 92414 | < 0.1 | 31.0 | 30.8 | 322 | 194 | 102 | 1.8 | 0.1 | 4 | < 0.1 | 0.2 | 825 | 27.8 | 76.3 | 7.7 | 31.0 | 6.7 | 6.7 | 1.0 | 6.3 | 41.6 | 0.3 | 0.4 | 2.5 |
| 92415 | < 0.1 | 20.0 | 22.3 | 287 | 105 | 30.9 | 0.7 | < 0.1 | 2 | < 0.1 | < 0.1 | 396 | 88.6 | 192 | 19.2 | 68.5 | 11.5 | 9.7 | 1.1 | 5.7 | 23.1 | 0.7 | 0.3 | 1.6 |
| 92416 | < 0.1 | 48.9 | 27.4 | 285 | 81 | 24.1 | 0.3 | < 0.1 | 2 | < 0.1 | 0.1 | 511 | 70.0 | 142 | 15.7 | 57.7 | 10.3 | 8.7 | 1.1 | 6.3 | 42.7 | 0.7 | 0.4 | 2.2 |
| 92417 | < 0.1 | 5.3 | 7.1 | 143 | 46 | 41.4 | 2.0 | < 0.1 | 2 | < 0.1 | 0.2 | 231 | 5.5 | 13.6 | 1.8 | 7.6 | 1.9 | 1.9 | 0.3 | 2.0 | 18.4 | 0.1 | 0.2 | 0.8 |
| 92418 | < 0.1 | 26.7 | 72.4 | 942 | 387 | 13.9 | 2.3 | 0.1 | < 1 | < 0.1 | 0.2 | 585 | 254 | 460 | 61.2 | 225 | 34.8 | 27.2 | 3.2 | 17.4 | 56.9 | 0.8 | 1.0 | 5.4 |
| 92419 | < 0.1 | 34.2 | 113 | 694 | 44 | 1.6 | 5.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 1680 | 374 | 898 | 90.0 | 331 | 54.6 | 46.9 | 5.5 | 29.4 | 106 | 0.7 | 1.5 | 8.0 |
| 92420 | 1.2 | 60.9 | 43.5 | 283 | 180 | 52.8 | 1.5 | 0.1 | 2 | < 0.1 | < 0.1 | 724 | 130 | 329 | 29.0 | 106 | 18.9 | 16.8 | 2.0 | 11.3 | 78.3 | 0.6 | 0.6 | 3.4 |
| 92421 | < 0.1 | 63.0 | 38.6 | 269 | 166 | 37.7 | 1.4 | < 0.1 | 2 | < 0.1 | 0.1 | 614 | 141 | 294 | 31.1 | 113 | 18.9 | 15.2 | 1.8 | 9.3 | 54.4 | 0.7 | 0.5 | 2.8 |
| 92422 | 0.2 | 73.3 | 41.5 | 266 | 168 | 14.9 | 1.4 | < 0.1 | 2 | < 0.1 | 0.1 | 673 | 135 | 251 | 29.6 | 108 | 18.1 | 15.3 | 1.8 | 9.9 | 84.3 | 0.5 | 0.5 | 3.1 |
| 92423 | 0.4 | 77.8 | 46.2 | 265 | 192 | 46.2 | 1.7 | 0.1 | 2 | < 0.1 | 0.2 | 735 | 149 | 279 | 32.5 | 119 | 20.0 | 16.6 | 2.0 | 10.8 | 147 | 0.7 | 0.6 | 3.3 |
| 92424 | 0.5 | 68.1 | 35.3 | 251 | 177 | 75.0 | 3.0 | 0.1 | 2 | < 0.1 | 0.2 | 742 | 135 | 254 | 28.1 | 99.1 | 16.0 | 13.3 | 1.6 | 8.4 | 70.8 | 0.6 | 0.5 | 2.7 |
| 92425 | 0.4 | 48.5 | 38.0 | 268 | 179 | 79.8 | 3.2 | 0.1 | 2 | < 0.1 | 0.1 | 576 | 249 | 399 | 40.8 | 137 | 20.3 | 16.7 | 1.9 | 9.8 | 52.3 | 0.7 | 0.5 | 2.7 |
| 92426 | 1.0 | 82.5 | 27.1 | 251 | 126 | 53.3 | 1.7 | < 0.1 | 2 | 0.1 | 0.2 | 526 | 182 | 404 | 45.4 | 149 | 18.8 | 13.2 | 1.4 | 6.7 | 58.0 | 0.7 | 0.4 | 2.0 |
| 92427 | 0.8 | 13.3 | 10.8 | 164 | 152 | 107 | 1.5 | < 0.1 | 2 | 0.1 | 0.1 | 486 | 59.2 | 134 | 14.3 | 50.0 | 7.4 | 5.4 | 0.6 | 3.4 | 40.4 | 0.2 | 0.2 | 1.3 |
| 92428 | 2.4 | 55.6 | 34.6 | 309 | 205 | 110 | 3.4 | < 0.1 | 1 | < 0.1 | 0.2 | 576 | 246 | 458 | 48.9 | 169 | 24.2 | 17.2 | 1.8 | 8.9 | 50.9 | 0.5 | 0.5 | 2.7 |
| 92429 | 2.4 | 61.2 | 53.2 | 486 | 127 | 45.7 | 4.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 646 | 303 | 605 | 67.7 | 242 | 35.1 | 26.4 | 2.8 | 14.2 | 40.8 | 0.6 | 0.7 | 3.9 |
| 92430 | 2.0 | 67.0 | 24.7 | 331 | 152 | 79.1 | 2.8 | < 0.1 | 2 | < 0.1 | 0.1 | 563 | 149 | 279 | 29.6 | 103 | 15.1 | 11.5 | 1.2 | 6.4 | 22.9 | 0.3 | 0.3 | 1.9 |
| 92431 | < 0.1 | 126 | 69.2 | 382 | 73 | 178 | 5.0 | 0.1 | 5 | 0.4 | 0.3 | 1100 | 959 | 1670 | 158 | 510 | 66.9 | 46.9 | 4.4 | 19.7 | 29.9 | 1.1 | 0.8 | 4.2 |
| 92432 | < 0.1 | 35.4 | 15.7 | 151 | 123 | 11.7 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 432 | 195 | 379 | 39.4 | 132 | 17.1 | 11.1 | 1.0 | 4.5 | 20.6 | 0.9 | 0.2 | 1.4 |
| 92433 | < 0.1 | 76.5 | 31.2 | 241 | 137 | 35.1 | 1.1 | < 0.1 | 2 | < 0.1 | 0.1 | 558 | 98.4 | 193 | 22.0 | 79.7 | 13.9 | 11.3 | 1.3 | 7.2 | 82.2 | 0.7 | 0.4 | 2.7 |
| 92434 | < 0.1 | 45.0 | 20.8 | 157 | 127 | 22.0 | 1.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 458 | 89.4 | 174 | 19.0 | 68.7 | 11.4 | 9.3 | 1.1 | 5.5 | 40.3 | 0.7 | 0.3 | 1.8 |
| 92435 | < 0.1 | 73.1 | 39.5 | 123 | 165 | 24.7 | 1.0 | 0.1 | 1 | < 0.1 | < 0.1 | 335 | 94.0 | 199 | 21.9 | 82.4 | 15.2 | 12.8 | 1.7 | 9.8 | 42.2 | 0.9 | 0.6 | 3.3 |
| 92436 | < 0.1 | 36.1 | 20.8 | 217 | 124 | 24.8 | 0.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 386 | 164 | 328 | 35.1 | 123 | 17.8 | 12.7 | 1.2 | 6.0 | 41.5 | 0.6 | 0.3 | 1.7 |
| 92437 | 3.8 | 20.1 | 36.6 | 193 | 149 | 137 | 1.8 | 0.1 | 2 | 0.1 | 0.4 | 401 | 162 | 341 | 39.7 | 150 | 24.0 | 17.5 | 1.9 | 9.9 | 115 | 0.5 | 0.5 | 2.8 |
| 92438 | < 0.1 | 74.2 | 31.9 | 357 | 139 | 54.9 | 1.9 | < 0.1 | 2 | < 0.1 | 0.1 | 546 | 139 | 270 | 29.2 | 104 | 17.0 | 13.7 | 1.6 | 8.1 | 83.7 | 0.5 | 0.4 | 2.4 |
| 92439 | 0.7 | 57.6 | 28.2 | 218 | 181 | 48.0 | 2.8 | < 0.1 | 2 | < 0.1 | 0.1 | 495 | 118 | 233 | 25.9 | 90.3 | 14.7 | 11.6 | 1.3 | 6.9 | 55.1 | 0.4 | 0.4 | 2.2 |
| 92440 | < 0.1 | 40.2 | 40.6 | 255 | 135 | 5.4 | 0.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 432 | 243 | 453 | 48.7 | 171 | 26.7 | 20.9 | 2.3 | 11.3 | 44.0 | 0.7 | 0.5 | 2.8 |
| 92441 | 2.9 | 64.3 | 17.1 | 223 | 106 | 3.1 | 0.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 401 | 120 | 225 | 24.1 | 83.6 | 12.0 | 8.7 | 0.9 | 4.4 | 29.6 | 0.5 | 0.2 | 1.3 |
| 92442 | < 0.1 | 80.4 | 65.1 | 500 | 252 | 58.4 | 3.2 | 0.2 | 2 | < 0.1 | 0.2 | 617 | 289 | 527 | 59.6 | 212 | 35.5 | 28.6 | 3.3 | 16.8 | 65.2 | 1.3 | 0.8 | 4.4 |
| 92443 | < 0.1 | 62.3 | 16.6 | 186 | 105 | 6.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 464 | 73.9 | 144 | 16.2 | 59.5 | 10.5 | 7.9 | 0.9 | 4.4 | 28.1 | 0.5 | 0.3 | 1.5 |
| 92444 | < 0.1 | 69.4 | 24.8 | 323 | 129 | 27.0 | 0.6 | < 0.1 | 1 | < 0.1 | 0.1 | 508 | 83.6 | 158 | 17.8 | 66.1 | 12.5 | 10.0 | 1.2 | 6.2 | 74.5 | 0.8 | 0.4 | 2.1 |
| 92445 | < 0.1 | 7.1 | 6.7 | 70.7 | 105 | 29.8 | 1.6 | < 0.1 | 2 | < 0.1 | 0.1 | 227 | 17.7 | 37.4 | 5.1 | 20.4 | 3.8 | 3.3 | 0.4 | 2.3 | 43.6 | 0.6 | 0.2 | 0.8 |
| 92446 | < 0.1 | 9.3 | 13.0 | 99.9 | 156 | 36.7 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 365 | 36.1 | 83.6 | 9.7 | 36.9 | 7.1 | 5.8 | 0.7 | 3.8 | 72.7 | 0.6 | 0.2 | 1.4 |
| 92447 | < 0.1 | 31.2 | 12.5 | 146 | 141 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 372 | 76.0 | 144 | 15.8 | 55.8 | 8.8 | 6.5 | 0.7 | 3.3 | 20.3 | 0.3 | 0.2 | 1.2 |
| 92448 | < 0.1 | 41.0 | 26.7 | 160 | 115 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 337 | 74.3 | 160 | 17.0 | 63.0 | 11.6 | 9.9 | 1.3 | 7.0 | 53.0 | 0.4 | 0.4 | 2.2 |
| 92449 | < 0.1 | 17.3 | 9.6 | 69.4 | 113 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 263 | 61.5 | 125 | 14.3 | 52.5 | 9.1 | 6.0 | 0.6 | 2.8 | 15.4 | 0.3 | 0.2 | 1.0 |
| 92450 | < 0.1 | 49.1 | 14.5 | 170 | 120 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 400 | 60.6 | 115 | 12.9 | 46.6 | 8.0 | 6.4 | 0.7 | 3.7 | 32.6 | 0.5 | 0.2 | 1.3 |
| 92451 | < 0.1 | 19.6 | 15.9 | 63.3 | 153 | 3.8 | 1.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 272 | 25.1 | 54.3 | 6.5 | 25.7 | 5.5 | 5.6 | 0.7 | 4.0 | 17.5 | 0.5 | 0.2 | 1.4 |
| 92452 | 0.6 | 28.8 | 67.9 | 378 | 111 | 9.6 | 3.3 | 0.1 | < 1 | < 0.1 | 0.2 | 432 | 301 | 603 | 65.5 | 238 | 38.0 | 30.0 | 3.4 | 17.9 | 58.4 | 0.7 | 0.8 | 4.2 |
| 92453 | 0.3 | 74.7 | 26.2 | 217 | 154 | 29.5 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 588 | 89.7 | 171 | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92454 | 1.4 | 65.4 | 16.7 | 233 | 178 | 28.3 | 1.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 563 | 71.9 | 141 | 15.2 | 53.8 | 9.0 | 7.2 | 0.8 | 4.2 | 31.6 | 0.4 | 0.3 | 1.5 |
| 92455 | 0.7 | 3.5 | 8.4 | 501 | 11 | 3.4 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 337 | 7.9 | 11.5 | 2.0 | 7.7 | 1.6 | 1.7 | 0.3 | 1.5 | 43.8 | 0.1 | 0.1 | 0.6 |
| 92456 | < 0.1 | 20.5 | 26.1 | 175 | 180 | 153 | 3.3 | < 0.1 | 3 | 0.1 | 0.2 | 438 | 254 | 458 | 45.3 | 149 | 21.3 | 15.9 | 1.6 | 7.7 | 56.7 | 0.8 | 0.4 | 2.2 |
| 92457 | < 0.1 | 50.0 | 27.2 | 265 | 137 | 29.0 | 0.5 | < 0.1 | 1 | < 0.1 | 0.1 | 463 | 151 | 299 | 31.5 | 110 | 17.1 | 12.7 | 1.4 | 7.0 | 52.3 | 0.4 | 0.3 | 2.1 |
| 92458 | < 0.1 | 50.9 | 27.8 | 222 | 144 | 187 | 2.5 | 0.1 | 3 | < 0.1 | 0.3 | 469 | 132 | 260 | 28.4 | 98.8 | 15.7 | 12.2 | 1.4 | 7.3 | 54.3 | 0.4 | 0.4 | 2.3 |
| 92459 | < 0.1 | 52.1 | 27.5 | 261 | 116 | 16.1 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 484 | 163 | 310 | 33.8 | 119 | 18.0 | 13.3 | 1.4 | 7.0 | 59.4 | 0.6 | 0.3 | 2.0 |
| 92460 | < 0.1 | 41.4 | 13.8 | 180 | 118 | 11.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 436 | 176 | 319 | 33.3 | 111 | 15.1 | 9.8 | 0.9 | 4.0 | 25.6 | 0.7 | 0.2 | 1.1 |
| 92461 | 1.9 | 33.7 | 80.3 | 731 | < 1 | 2.0 | 3.4 | 0.1 | < 1 | < 0.1 | 0.1 | 631 | 510 | 1120 | 115 | 401 | 55.7 | 41.7 | 4.4 | 22.4 | 31.1 | 0.9 | 1.1 | 5.6 |
| 92462 | 1.8 | 33.2 | 108 | 257 | 153 | 280 | 8.3 | 0.1 | 5 | 0.1 | 0.4 | 404 | 557 | 1110 | 114 | 376 | 55.1 | 46.6 | 6.0 | 33.2 | 66.9 | 1.2 | 1.6 | 8.2 |
| 92463 | 0.6 | 65.8 | 9.0 | 275 | 180 | 3.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 660 | 34.5 | 71.3 | 7.8 | 27.1 | 4.4 | 3.4 | 0.4 | 2.1 | 5.0 | 0.6 | 0.1 | 0.9 |
| 92464 | 0.7 | 72.0 | 25.6 | 217 | 177 | 67.2 | 2.5 | < 0.1 | 2 | < 0.1 | 0.2 | 627 | 98.7 | 192 | 21.8 | 79.5 | 13.1 | 10.3 | 1.2 | 6.4 | 70.2 | 0.6 | 0.4 | 2.0 |
| 92465 | 0.3 | 43.2 | 49.9 | 242 | 224 | 46.8 | 0.8 | 0.1 | 3 | < 0.1 | 0.2 | 503 | 204 | 332 | 42.9 | 154 | 25.5 | 19.8 | 2.4 | 12.1 | 38.5 | 0.8 | 0.6 | 3.5 |
| 92466 | 0.6 | 5.7 | 7.8 | 143 | 170 | 65.6 | 1.5 | < 0.1 | 2 | < 0.1 | 0.2 | 458 | 20.8 | 50.3 | 6.1 | 24.1 | 4.6 | 3.6 | 0.5 | 2.5 | 39.4 | 0.8 | 0.2 | 1.0 |
| 92467 | 0.5 | 29.3 | 13.9 | 217 | 188 | 57.9 | 0.8 | < 0.1 | 2 | < 0.1 | 0.1 | 567 | 45.3 | 106 | 10.8 | 39.7 | 6.9 | 5.5 | 0.7 | 3.7 | 25.0 | 0.3 | 0.2 | 1.4 |
| 92468 | < 0.1 | 67.2 | 17.1 | 198 | 189 | 35.5 | 3.3 | < 0.1 | 1 | < 0.1 | 0.1 | 543 | 61.9 | 127 | 14.1 | 52.2 | 9.1 | 6.7 | 0.8 | 4.4 | 11.1 | 1.0 | 0.3 | 1.5 |
| 92469 | 1.3 | 61.1 | 79.7 | 327 | 158 | 15.0 | 11.9 | 0.2 | < 1 | < 0.1 | 0.2 | 593 | 464 | 957 | 99.8 | 343 | 51.6 | 40.1 | 4.4 | 21.7 | 28.9 | 1.0 | 1.0 | 5.2 |
| 92470 | < 0.1 | 50.3 | 92.1 | 344 | 256 | 67.8 | 3.1 | 0.1 | 3 | < 0.1 | 0.2 | 921 | 382 | 604 | 81.1 | 290 | 47.5 | 38.2 | 4.4 | 23.5 | 149 | 1.0 | 1.1 | 6.0 |
| 92471 | < 0.1 | 51.1 | 32.9 | 185 | 127 | 84.8 | 1.6 | 0.1 | 2 | < 0.1 | 0.1 | 427 | 103 | 184 | 23.0 | 85.8 | 15.1 | 12.3 | 1.5 | 7.9 | 51.6 | 0.7 | 0.4 | 2.3 |
| 92472 | 1.2 | 1.7 | 38.4 | 83.2 | 6 | < 0.1 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 135 | 141 | 243 | 31.3 | 116 | 19.5 | 16.1 | 2.0 | 10.3 | 116 | 0.5 | 0.5 | 2.4 |
| 92473 | 0.2 | 57.0 | 27.6 | 181 | 165 | 16.9 | 0.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 543 | 102 | 199 | 22.7 | 81.3 | 13.2 | 10.9 | 1.3 | 6.8 | 87.2 | 0.8 | 0.4 | 2.2 |
| 92474 | < 0.1 | 31.5 | 54.3 | 115 | 60 | 0.4 | 2.3 | 0.2 | < 1 | < 0.1 | 0.1 | 527 | 241 | 656 | 53.3 | 196 | 32.4 | 26.9 | 3.1 | 16.0 | 39.9 | 0.6 | 0.6 | 3.0 |
| 92475 | 0.2 | 11.2 | 11.7 | 125 | 166 | 87.0 | 2.2 | < 0.1 | 2 | 0.1 | 0.1 | 480 | 45.1 | 105 | 11.3 | 41.7 | 7.5 | 6.1 | 0.8 | 4.0 | 66.5 | 1.6 | 0.2 | 1.3 |
| 92008 | 15.4 | 14.7 | 249 | > 1000 | 7 | 4.9 | 2.9 | 0.5 | 2 | 0.2 | 0.2 | 277 | 1940 | 4640 | 534 | 1900 | > 100 | 178 | 16.8 | 76.6 | 23.6 | 3.9 | 3.1 | 16.6 |
| 92009 | 20.1 | 8.5 | 350 | > 1000 | 6 | 42.2 | 31.3 | 0.3 | 2 | 0.5 | 0.3 | 298 | 1610 | 4210 | 477 | 1740 | > 100 | 195 | 21.8 | 105 | 23.4 | 3.6 | 3.7 | 17.7 |
| 92501 | < 0.1 | 61.0 | 15.1 | 183 | 138 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 458 | 77.3 | 153 | 16.1 | 56.8 | 9.1 | 6.9 | 0.7 | 3.7 | 33.8 | 0.3 | 0.2 | 1.3 |
| 92502 | < 0.1 | 112 | 65.4 | 130 | 74 | 1.5 | 0.5 | 0.1 | < 1 | < 0.1 | < 0.1 | 487 | 120 | 248 | 28.5 | 104 | 19.8 | 19.5 | 2.8 | 16.4 | 34.7 | 0.5 | 0.8 | 4.2 |
| 92503 | < 0.1 | 51.2 | 25.4 | 193 | 105 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 434 | 69.3 | 137 | 15.4 | 56.8 | 10.7 | 9.3 | 1.2 | 6.2 | 62.6 | 0.4 | 0.3 | 2.0 |
| 92504 | 0.6 | 55.5 | 25.9 | 229 | 184 | 3.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 532 | 71.2 | 140 | 15.9 | 58.3 | 10.8 | 9.1 | 1.1 | 6.3 | 67.6 | 0.4 | 0.4 | 2.1 |
| 92505 | < 0.1 | 62.9 | 30.6 | 237 | 107 | 0.9 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 633 | 98.4 | 193 | 21.5 | 78.4 | 14.4 | 11.9 | 1.4 | 7.5 | 69.3 | 0.4 | 0.4 | 2.3 |
| 92506 | < 0.1 | 48.4 | 39.5 | 208 | 113 | 1.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 615 | 98.2 | 177 | 19.9 | 73.3 | 14.8 | 13.0 | 1.7 | 9.2 | 79.7 | 0.4 | 0.5 | 3.1 |
| 92507 | < 0.1 | 18.3 | 13.5 | 207 | 159 | 67.2 | 1.1 | < 0.1 | 2 | 0.2 | 0.2 | 436 | 38.3 | 80.9 | 9.6 | 36.2 | 6.9 | 5.7 | 0.8 | 4.1 | 65.9 | 0.5 | 0.2 | 1.5 |
| 92508 | 0.4 | 23.1 | 21.4 | 191 | 180 | 33.5 | 0.8 | < 0.1 | 1 | < 0.1 | 0.1 | 508 | 75.4 | 155 | 17.3 | 62.6 | 10.8 | 8.7 | 1.1 | 5.7 | 58.8 | 0.6 | 0.3 | 1.8 |
| 92509 | 2.2 | 44.6 | 10.6 | 300 | 211 | 9.7 | 2.1 | < 0.1 | < 1 | 0.1 | 0.1 | 674 | 22.1 | 51.6 | 5.9 | 22.2 | 4.0 | 3.3 | 0.4 | 2.4 | 17.9 | 0.2 | 0.2 | 1.2 |
| 92510 | 1.9 | 77.7 | 17.0 | 309 | 197 | 30.3 | 0.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 690 | 54.2 | 111 | 12.2 | 43.9 | 7.1 | 5.8 | 0.7 | 3.6 | 29.6 | 0.3 | 0.2 | 1.4 |
| 92511 | 1.3 | 83.9 | 9.3 | 283 | 213 | 5.4 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 645 | 41.9 | 83.6 | 9.0 | 31.2 | 4.7 | 3.4 | 0.4 | 2.0 | 4.8 | 0.3 | 0.2 | 1.0 |
| 92512 | 1.8 | 72.0 | 16.8 | 324 | 189 | 30.3 | 1.6 | < 0.1 | 1 | < 0.1 | 0.1 | 675 | 53.7 | 106 | 12.1 | 43.9 | 7.2 | 5.8 | 0.7 | 3.7 | 17.7 | 0.3 | 0.2 | 1.4 |
| 92513 | 2.1 | 68.8 | 10.1 | 285 | 177 | 9.8 | 1.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 628 | 27.1 | 54.8 | 6.2 | 21.9 | 3.9 | 3.1 | 0.4 | 2.2 | 9.7 | 0.2 | 0.2 | 1.0 |
| 92514 | 1.9 | 79.2 | 11.4 | 327 | 174 | 6.4 | 0.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 691 | 32.3 | 68.3 | 7.4 | 26.8 | 4.6 | 3.6 | 0.5 | 2.5 | 12.4 | 0.2 | 0.2 | 1.1 |
| 92515 | 1.2 | 68.5 | 10.6 | 314 | 206 | 5.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 620 | 24.6 | 50.3 | 5.7 | 20.3 | 3.6 | 2.9 | 0.4 | 2.2 | 8.1 | 0.2 | 0.2 | 1.1 |
| 92516 | 0.7 | 69.4 | 11.2 | 300 | 210 | 49.8 | 0.8 | < 0.1 | 1 | < 0.1 | 0.1 | 620 | 39.4 | 81.1 | 9.4 | 33.4 | 5.3 | 3.9 | 0.5 | 2.6 | 13.0 | 0.3 | 0.2 | 1.0 |
| 92517 | 1.7 | 20.6 | 4.7 | 221 | 185 | 34.6 | 0.9 | < 0.1 | 1 | 0.1 | 0.1 | 550 | 8.8 | 21.8 | 2.7 | 10.3 | 2.0 | 1.6 | 0.2 | 1.3 | 6.0 | 0.5 | 0.1 | 0.6 |
| 92518 | 2.4 | 33.0 | 9.9 | 257 | 212 | 21.8 | 1.0 | < 0.1 | 1 | < 0.1 | 0.1 | 603 | 27.3 | 61.9 | 7.0 | 25.5 | 4.5 | 3.4 | 0.4 | 2.4 | 15.6 | 0.4 | 0.2 | 1.0 |
| 92519 | 1.3 | 33.8 | 28.5 | 341 | 166 | 108 | 3.4 | < 0.1 | 2 | < 0.1 | 0.1 | 539 | 98.9 | 228 | 30.9 | 120 | 19.8 | 14.7 | 1.7 | 8.5 | 13.2 | 0.4 | 0.4 | 2.3 |
| 92520 | 0.8 | 47.9 | 21.4 | 297 | 207 | 166 | 3.6 | 0.1 | 3 | < 0.1 | 0.2 | 557 | 188 | 431 | 54.7 | 200 | 25.1 | 14.8 | 1.5 | 6.5 | 6.4 | 0.6 | 0.3 | 1.6 |
| 92521 | 1.7 | 44.5 | 13.0 | 245 | 171 | 60.1 | 9.6 | < 0.1 | 2 | < 0.1 | 0.1 | 573 | 281 | 521 | 49.8 | 146 | 14.7 | 9.2 | 0.8 | 3.5 | 6.7 | 0.5 | 0.2 | 1.1 |
| 92522 | 1.5 | 59.1 | 13.8 | 307 | 179 | 13.8 | 2.5 | < 0.1 | 1 | < 0.1 | 0.2 | 666 | 35.0 | 82.5 | 8.8 | 31.8 | 5.5 | 4.4 | 0.5 | 3.0 | 18.1 | 0.2 | 0.2 | 1.2 |
| 92523 | 1.5 | 66.6 | 15.4 | 306 | 184 | 25.3 | 0.4 | < 0.1 | 1 | < 0.1 | < 0.1 | 695 | 44.6 | 88.6 | 10.9 | 40.0 | 6.8 | 5.3 | 0.7 | 3.6 | 23.7 | 0.4 | 0.2 | 1.4 |
| 92524 | 2.9 | 104 | 62.5 | 698 | 85 | 6.9 | 19.3 | 0.1 | < 1 | < 0.1 | 0.1 | 853 | 180 | 347 | 44.4 | 167 | 27.1 | 22.7 | 2.8 | 15.5 | 56.0 | 0.5 | 0.8 | 4.0 |
| 92525 | 1.6 | 63.9 | 42.6 | 608 | 104 | 50.2 | 4.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 786 | 288 | 576 | 68.1 | 244 | 35.2 | 23.8 | 2.4 | 11.1 | 19.9 | 0.8 | 0.5 | 2.9 |
| 92526 | 2.8 | 64.6 | 27.2 | 394 | 194 | 157 | 4.4 | < 0.1 | 2 | 0.1 | < 0.1 | 844 | 121 | 278 | 31.5 | 116 | 17.8 | 12.4 | 1.4 | 7.1 | 28.4 | 0.8 | 0.4 | 2.1 |
| 92527 | 2.7 | 64.9 | 24.9 | 431 | 186 | 134 | 4.2 | < 0.1 | 2 | < 0.1 | 0.1 | 713 | 95.9 | 215 | 25.3 | 93.3 | 14.9 | 10.5 | 1.2 | 6.1 | 21.7 | 0.6 | 0.3 | 2.0 |
| 92528 | 3.4 | 21.2 | 32.6 | 625 | 86 | > 500 | 17.7 | 0.1 | 5 | 0.2 | 0.6 | 604 | 146 | 336 | 42.3 | 154 | 24.1 | 16.3 | 1.9 | 9.5 | 88.3 | 1.3 | 0.5 | 2.8 |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92529 | 1.7 | 44.3 | 34.9 | 592 | 126 | 16.2 | 13.7 | < 0.1 | < 1 | < 0.1 | 0.1 | 644 | 198 | 451 | 52.8 | 190 | 28.1 | 19.4 | 2.1 | 10.3 | 27.8 | 0.8 | 0.5 | 2.7 |
| 92530 | 1.9 | 69.5 | 41.5 | 550 | 74 | 25.3 | 16.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 633 | 212 | 446 | 52.9 | 188 | 27.7 | 19.1 | 2.0 | 10.0 | 35.3 | 0.7 | 0.5 | 2.8 |
| 92531 | 5.8 | 78.7 | 38.0 | 511 | 111 | 75.5 | 10.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 731 | 231 | 504 | 54.2 | 191 | 27.6 | 19.3 | 2.1 | 10.0 | 16.3 | 1.0 | 0.5 | 2.6 |
| 92532 | 2.5 | 75.8 | 19.7 | 418 | 169 | 66.4 | 6.9 | < 0.1 | 1 | 0.2 | 0.2 | 680 | 96.4 | 210 | 24.9 | 88.9 | 13.2 | 8.9 | 1.0 | 4.9 | 17.1 | 0.3 | 0.3 | 1.6 |
| 92533 | 2.6 | 94.2 | 61.3 | 785 | 55 | 8.5 | 42.2 | 0.1 | < 1 | < 0.1 | 0.1 | 895 | 359 | 789 | 89.8 | 323 | 47.6 | 32.5 | 3.4 | 16.6 | 15.0 | 0.9 | 0.7 | 3.5 |
| 92534 | 2.3 | 75.4 | 46.1 | 625 | 65 | 15.2 | 37.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 700 | 279 | 590 | 68.6 | 243 | 35.4 | 24.2 | 2.5 | 12.1 | 21.1 | 0.8 | 0.6 | 2.9 |
| 92535 | 5.8 | 52.6 | 56.1 | 917 | 24 | 2.6 | 7.6 | 0.1 | < 1 | < 0.1 | 0.2 | 590 | 350 | 787 | 87.5 | 309 | 45.1 | 30.9 | 3.3 | 15.7 | 12.8 | 0.8 | 0.7 | 3.4 |
| 92536 | 4.4 | 5.6 | 51.6 | 793 | 82 | > 500 | 12.4 | 0.1 | 4 | 0.2 | 1.2 | 541 | 250 | 591 | 72.9 | 267 | 40.7 | 28.3 | 3.3 | 16.5 | 32.1 | 1.3 | 0.8 | 4.1 |
| 92537 | 4.7 | 24.1 | 18.0 | 304 | 162 | 72.5 | 5.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 601 | 54.8 | 161 | 16.8 | 63.2 | 11.2 | 8.4 | 1.1 | 5.8 | 12.4 | 0.6 | 0.3 | 1.9 |
| 92538 | 4.1 | 46.4 | 40.7 | 485 | 145 | 13.5 | 2.2 | 0.1 | < 1 | < 0.1 | 0.2 | 900 | 170 | 401 | 46.0 | 169 | 25.7 | 18.6 | 2.2 | 11.1 | 32.2 | 0.6 | 0.6 | 3.4 |
| 92539 | 0.2 | 90.9 | 76.2 | 974 | 45 | 2.8 | 5.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 717 | 392 | 637 | 85.5 | 303 | 44.9 | 33.3 | 3.6 | 17.6 | 189 | 0.9 | 0.8 | 4.1 |
| 92540 | < 0.1 | 37.6 | 87.5 | > 1000 | 17 | 5.2 | 8.9 | 0.2 | < 1 | < 0.1 | < 0.1 | 542 | 379 | 838 | 105 | 395 | 63.1 | 47.2 | 5.2 | 24.8 | 35.3 | 0.9 | 1.1 | 5.3 |
| 92541 | 1.2 | 61.7 | 15.6 | 357 | 206 | 57.8 | 1.8 | < 0.1 | 1 | < 0.1 | 0.2 | 728 | 63.1 | 134 | 14.8 | 53.5 | 8.3 | 6.3 | 0.7 | 3.8 | 7.9 | 0.3 | 0.2 | 1.3 |
| 92542 | 1.2 | 65.9 | 18.1 | 370 | 194 | 55.2 | 6.0 | < 0.1 | 1 | < 0.1 | 0.1 | 676 | 58.2 | 115 | 14.2 | 50.7 | 8.4 | 6.3 | 0.8 | 4.2 | 23.5 | 0.3 | 0.3 | 1.6 |
| 92543 | 1.6 | 52.4 | 35.3 | 408 | 146 | 137 | 2.8 | 0.1 | 3 | < 0.1 | 0.2 | 531 | 293 | 657 | 75.0 | 259 | 32.6 | 21.3 | 2.1 | 9.6 | 9.8 | 0.9 | 0.4 | 2.4 |
| 92544 | 2.0 | 35.2 | 9.2 | 340 | 224 | 13.0 | 1.6 | < 0.1 | 1 | < 0.1 | 0.1 | 710 | 20.0 | 46.0 | 5.4 | 20.0 | 3.7 | 2.9 | 0.4 | 2.2 | 9.1 | 0.3 | 0.2 | 1.0 |
| 92545 | 2.3 | 33.7 | 11.6 | 327 | 218 | 16.7 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 700 | 25.2 | 55.0 | 6.6 | 24.6 | 4.6 | 3.7 | 0.5 | 2.9 | 18.2 | 0.8 | 0.2 | 1.3 |
| 92546 | 1.7 | 59.5 | 8.7 | 309 | 205 | 15.4 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 628 | 22.1 | 45.5 | 5.2 | 18.7 | 3.2 | 2.6 | 0.3 | 1.9 | 4.6 | 0.2 | 0.1 | 0.9 |
| 92547 | 1.2 | 21.0 | 11.0 | 373 | 186 | 69.4 | 2.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 549 | 21.3 | 66.8 | 8.3 | 34.5 | 7.0 | 5.7 | 0.7 | 3.9 | 5.8 | 0.5 | 0.2 | 1.1 |
| 92548 | 1.5 | 62.6 | 11.1 | 316 | 207 | 5.9 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 661 | 22.4 | 50.2 | 5.6 | 20.1 | 3.8 | 3.2 | 0.4 | 2.3 | 14.5 | 0.3 | 0.2 | 1.1 |
| 92549 | 1.6 | 73.8 | 11.1 | 315 | 229 | 34.9 | 0.9 | < 0.1 | 1 | < 0.1 | 0.1 | 709 | 28.2 | 59.6 | 6.9 | 24.9 | 4.2 | 3.3 | 0.4 | 2.4 | 7.7 | 0.2 | 0.2 | 1.0 |
| 92550 | 1.9 | 70.5 | 13.9 | 333 | 202 | 46.8 | 1.1 | < 0.1 | 1 | 0.2 | 0.2 | 706 | 52.5 | 112 | 12.1 | 41.9 | 7.0 | 5.2 | 0.6 | 3.3 | 11.1 | 0.3 | 0.2 | 1.2 |
| 92326 | 1.0 | 61.3 | 44.5 | 292 | 334 | 69.8 | 1.8 | < 0.1 | 1 | < 0.1 | 0.2 | 621 | 185 | 358 | 42.1 | 151 | 24.6 | 18.7 | 2.1 | 11.0 | 77.2 | 0.8 | 0.6 | 3.2 |
| 92327 | < 0.1 | 35.2 | 28.1 | 355 | 136 | 18.7 | 1.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 408 | 134 | 219 | 25.1 | 86.0 | 13.7 | 11.1 | 1.3 | 6.9 | 115 | 0.4 | 0.4 | 2.0 |
| 92328 | < 0.1 | 36.7 | 46.1 | 252 | 181 | 13.4 | 6.4 | 0.1 | < 1 | < 0.1 | 0.2 | 483 | 354 | 622 | 61.5 | 201 | 28.4 | 22.5 | 2.5 | 12.4 | 77.9 | 0.7 | 0.6 | 3.3 |
| 92329 | < 0.1 | 36.3 | 50.5 | 298 | 77 | 2.2 | 6.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 382 | 134 | 250 | 27.6 | 97.6 | 16.8 | 15.5 | 2.1 | 11.5 | 80.5 | 0.4 | 0.7 | 3.9 |
| 92330 | < 0.1 | 8.3 | 13.3 | 171 | 218 | 63.8 | 1.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 379 | 43.2 | 106 | 11.3 | 41.6 | 7.5 | 6.1 | 0.7 | 3.8 | 31.5 | 0.9 | 0.3 | 1.5 |
| 92331 | 0.2 | 57.4 | 148 | 385 | 327 | 18.8 | 3.0 | 0.2 | < 1 | < 0.1 | < 0.1 | 1210 | 487 | 1020 | 111 | 400 | 70.6 | 61.0 | 7.6 | 40.1 | 70.1 | 1.0 | 1.8 | 9.6 |
| 92332 | 1.5 | 2.8 | 71.0 | 466 | 1120 | 159 | 2.4 | 0.3 | 2 | < 0.1 | 0.4 | 1050 | 180 | 406 | 51.9 | 196 | 37.3 | 31.5 | 4.1 | 21.9 | 115 | 1.4 | 1.2 | 6.0 |
| 92333 | 1.0 | 11.6 | 17.4 | 170 | 259 | 98.2 | 3.4 | < 0.1 | 3 | < 0.1 | 0.1 | 544 | 43.5 | 109 | 11.7 | 44.0 | 8.1 | 6.8 | 0.9 | 4.7 | 44.0 | 0.7 | 0.3 | 1.8 |
| 92334 | < 0.1 | 15.7 | 25.8 | 217 | 204 | 13.8 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 616 | 68.9 | 143 | 16.1 | 58.3 | 10.5 | 9.1 | 1.2 | 6.4 | 44.3 | 0.5 | 0.4 | 2.2 |
| 92335 | < 0.1 | 68.3 | 63.2 | 258 | 176 | 7.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 708 | 304 | 367 | 61.8 | 212 | 36.7 | 27.7 | 3.5 | 17.8 | 64.6 | 0.8 | 0.8 | 3.9 |
| 92336 | 3.6 | 32.7 | 16.1 | 237 | 129 | 35.6 | 2.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 617 | 35.3 | 77.6 | 8.7 | 32.0 | 6.0 | 5.2 | 0.7 | 4.1 | 47.3 | 0.7 | 0.3 | 1.6 |
| 92337 | 0.8 | 10.4 | 24.8 | 231 | 179 | 73.9 | 1.0 | 0.1 | 2 | 0.3 | 0.2 | 472 | 59.3 | 138 | 15.1 | 55.0 | 10.2 | 8.5 | 1.1 | 6.4 | 35.8 | 0.8 | 0.4 | 2.5 |
| 92338 | < 0.1 | 27.1 | 39.2 | 307 | 143 | 88.3 | 9.4 | 0.1 | 3 | < 0.1 | 0.2 | 654 | 80.7 | 180 | 21.3 | 79.6 | 15.3 | 13.3 | 1.8 | 9.8 | 47.2 | 0.7 | 0.6 | 3.3 |
| 92339 | 0.2 | 26.9 | 42.1 | 263 | 283 | 138 | 2.8 | 0.1 | 4 | < 0.1 | 0.3 | 810 | 98.1 | 250 | 27.5 | 102 | 18.8 | 15.2 | 1.9 | 10.8 | 20.0 | 0.7 | 0.6 | 3.5 |
| 92005 | 8.0 | 19.4 | 236 | > 1000 | 6 | 41.5 | 15.3 | 0.1 | 6 | 0.8 | 0.2 | 162 | 761 | 1880 | 245 | 983 | > 100 | 140 | 15.3 | 73.4 | 23.7 | 2.2 | 2.6 | 11.5 |
| 92006 | 6.5 | 15.9 | 76.4 | 262 | 99 | 386 | 15.3 | 4.4 | 8 | 0.7 | 0.6 | 903 | 128 | 550 | 81.0 | 437 | > 100 | 68.1 | 6.8 | 30.5 | 62.5 | 1.9 | 1.1 | 4.7 |
| 92007 | 15.5 | 26.7 | 255 | > 1000 | 157 | > 500 | 24.5 | 0.3 | 5 | 7.4 | 1.1 | 505 | 1570 | 2600 | 280 | 903 | > 100 | 98.0 | 11.1 | 59.2 | 15.1 | 2.1 | 3.2 | 16.3 |
| 92011 | 33.7 | 25.8 | 384 | 573 | 49 | 244 | 277 | 1.4 | 55 | 3.6 | 0.6 | 738 | 6620 | > 10000 | 1650 | 5770 | > 100 | 456 | 37.0 | 139 | 14.3 | 11.2 | 3.6 | 17.2 |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 101976 | 0.3 | < 0.1 | 0.2 | 0.003 | 0.65 | 11.8 | 23 | 6.8 | 1.1 | 0.336 | 0.118 | 0.03 | |
| 101977 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.19 | 8.7 | 21 | 7.2 | 1.5 | 0.185 | 0.097 | 0.05 | |
| 101978 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.16 | 11.0 | 21 | 6.7 | 0.5 | 0.221 | 0.127 | < 0.01 | < 5 |
| 101979 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.24 | 10.7 | 14 | 7.4 | 0.8 | 0.261 | 0.087 | < 0.01 | |
| 101980 | 0.2 | < 0.1 | 0.1 | 0.005 | 0.15 | 8.5 | 18 | 7.4 | 0.8 | 0.266 | 0.081 | < 0.01 | |
| 101981 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.16 | 7.4 | 18 | 6.0 | 0.7 | 0.294 | 0.126 | < 0.01 | < 5 |
| 101982 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.32 | 16.0 | 20 | 18.9 | 2.0 | 0.344 | 0.184 | 0.01 | |
| 101983 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 15.3 | 15 | 14.7 | 1.3 | 0.399 | 0.112 | 0.01 | |
| 101984 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 12.3 | 16 | 10.0 | 1.3 | 0.385 | 0.096 | 0.02 | < 5 |
| 101985 | 0.2 | 2.1 | 3.0 | 0.005 | 0.34 | 15.3 | 32 | 4.2 | 0.9 | 1.20 | 0.180 | 0.01 | |
| 101986 | 0.2 | 0.3 | 0.4 | 0.003 | 0.54 | 18.7 | 11 | 9.8 | 1.2 | 0.367 | 0.067 | < 0.01 | |
| 101987 | 0.2 | < 0.1 | 0.1 | 0.004 | 0.55 | 18.4 | 9 | 7.1 | 1.1 | 0.320 | 0.043 | 0.01 | < 5 |
| 101988 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.50 | 17.2 | 11 | 9.3 | 1.2 | 0.292 | 0.071 | 0.02 | |
| 101989 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.48 | 16.2 | 10 | 8.5 | 1.1 | 0.212 | 0.056 | < 0.01 | |
| 101990 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.34 | 14.5 | 9 | 7.2 | 0.8 | 0.113 | 0.043 | < 0.01 | < 5 |
| 101991 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.42 | 16.8 | 11 | 9.5 | 1.3 | 0.216 | 0.039 | < 0.01 | |
| 101992 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.35 | 15.8 | 11 | 12.3 | 1.3 | 0.376 | 0.054 | < 0.01 | |
| 101993 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.31 | 14.2 | 10 | 6.9 | 0.8 | 0.235 | 0.026 | < 0.01 | < 5 |
| 101994 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.31 | 17.2 | 9 | 16.8 | 1.3 | 0.363 | 0.031 | < 0.01 | |
| 101995 | 0.2 | 0.9 | 1.5 | 0.003 | 0.35 | 15.4 | 16 | 7.0 | 0.7 | 0.536 | 0.067 | 0.01 | |
| 101996 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.32 | 12.8 | 12 | 8.9 | 0.8 | 0.294 | 0.045 | < 0.01 | < 5 |
| 101997 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 13.6 | 11 | 8.1 | 0.9 | 0.261 | 0.069 | < 0.01 | |
| 101998 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 12.0 | 12 | 9.0 | 0.9 | 0.202 | 0.065 | < 0.01 | |
| 101999 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.25 | 11.8 | 11 | 7.9 | 0.7 | 0.127 | 0.040 | < 0.01 | < 5 |
| 102000 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.22 | 9.4 | 20 | 11.4 | 0.6 | 0.106 | 0.084 | < 0.01 | |
| 100740 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 14.5 | 13 | 19.6 | 0.9 | 0.0813 | 0.049 | < 0.01 | |
| 100741 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.33 | 13.9 | 10 | 8.4 | 0.9 | 0.172 | 0.065 | < 0.01 | < 5 |
| 100742 | 0.5 | 2.0 | 2.5 | 0.003 | 0.46 | 27.4 | 25 | 49.8 | 1.5 | 0.210 | 0.133 | < 0.01 | |
| 100743 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.06 | 4.9 | 20 | 5.4 | 0.6 | 0.128 | 0.106 | 0.01 | |
| 100744 | 0.2 | 1.3 | 2.0 | 0.001 | 0.14 | 7.5 | 15 | 4.8 | 0.5 | 0.872 | 0.112 | < 0.01 | < 5 |
| 100745 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.17 | 8.6 | 22 | 9.4 | 0.8 | 0.290 | 0.123 | < 0.01 | |
| 100746 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 11.3 | 17 | 10.1 | 0.8 | 0.0919 | 0.084 | < 0.01 | |
| 100747 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.19 | 12.9 | 26 | 18.8 | 2.3 | 0.151 | 0.163 | 0.03 | < 5 |
| 100748 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.28 | 14.9 | 8 | 9.9 | 1.2 | 0.0761 | 0.052 | < 0.01 | |
| 100749 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 13.2 | 8 | 10.0 | 1.0 | 0.0906 | 0.063 | < 0.01 | |
| 100750 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 10.4 | 14 | 9.5 | 1.5 | 0.125 | 0.124 | 0.03 | < 5 |
| 91726 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.49 | 16.7 | 10 | 9.1 | 1.1 | 0.232 | 0.064 | < 0.01 | |
| 91727 | < 0.1 | 0.7 | 0.3 | 0.003 | 0.06 | 4.4 | 6 | 2.4 | 0.3 | 0.996 | 0.023 | 0.01 | |
| 91728 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 15.1 | 11 | 9.1 | 1.1 | 0.364 | 0.071 | < 0.01 | < 5 |
| 91729 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.25 | 12.4 | 13 | 9.1 | 0.7 | 0.224 | 0.060 | < 0.01 | |
| 91730 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.21 | 9.7 | 17 | 11.1 | 0.7 | 0.0988 | 0.086 | < 0.01 | |
| 91731 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.16 | 10.3 | 17 | 9.0 | 0.7 | 0.0871 | 0.056 | < 0.01 | < 5 |
| 91732 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.24 | 9.7 | 22 | 12.5 | 0.6 | 0.185 | 0.089 | < 0.01 | |
| 91733 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.18 | 7.8 | 24 | 10.8 | 0.5 | 0.142 | 0.086 | 0.01 | |
| 91734 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 10.7 | 14 | 10.8 | 0.7 | 0.138 | 0.042 | < 0.01 | < 5 |
| 91735 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.17 | 9.8 | 16 | 11.8 | 0.6 | 0.195 | 0.051 | < 0.01 | |
| 91736 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.20 | 10.4 | 15 | 9.4 | 0.7 | 0.141 | 0.048 | < 0.01 | |
| 91737 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 12.0 | 11 | 6.8 | 0.7 | 0.366 | 0.049 | < 0.01 | < 5 |
| 91738 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.23 | 14.8 | 14 | 16.9 | 1.0 | 0.346 | 0.104 | < 0.01 | |
| 91739 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.38 | 14.4 | 11 | 7.7 | 1.0 | 0.308 | 0.070 | < 0.01 | |
| 91740 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.18 | 10.9 | 22 | 11.4 | 0.7 | 0.111 | 0.103 | < 0.01 | < 5 |
| 91741 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 13.5 | 23 | 17.3 | 0.8 | 0.275 | 0.117 | 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 91742 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.20 | 11.1 | 12 | 9.8 | 0.7 | 0.115 | 0.076 | < 0.01 | |
| 91743 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.16 | 8.4 | 19 | 11.3 | 0.7 | 0.144 | 0.089 | < 0.01 | < 5 |
| 91744 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 10.4 | 21 | 13.1 | 0.7 | 0.172 | 0.040 | < 0.01 | |
| 91745 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 11.8 | 31 | 28.1 | 0.8 | 0.218 | 0.085 | < 0.01 | |
| 91746 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.20 | 12.4 | 25 | 22.3 | 0.8 | 0.308 | 0.151 | 0.01 | < 5 |
| 91747 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.24 | 11.3 | 19 | 10.2 | 1.2 | 0.140 | 0.114 | 0.07 | |
| 91748 | 0.2 | 1.4 | 2.8 | 0.001 | 0.20 | 13.0 | 13 | 6.7 | 0.6 | 0.718 | 0.096 | < 0.01 | |
| 91749 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.15 | 8.5 | 21 | 9.7 | 0.6 | 0.258 | 0.099 | < 0.01 | < 5 |
| 91750 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.19 | 8.3 | 21 | 9.2 | 0.6 | 0.124 | 0.076 | < 0.01 | |
| 91815 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.32 | 16.5 | 22 | 18.4 | 3.3 | 0.268 | 0.303 | 0.01 | |
| 91816 | 0.6 | < 0.1 | < 0.1 | 0.002 | 0.23 | 39.3 | 27 | 28.8 | 6.8 | 0.293 | 0.384 | 0.02 | < 5 |
| 91817 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.48 | 22.8 | 11 | 25.9 | 2.1 | 0.155 | 0.091 | 0.01 | |
| 91818 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.31 | 13.3 | 12 | 9.4 | 0.9 | 0.139 | 0.084 | < 0.01 | |
| 91819 | 0.6 | < 0.1 | < 0.1 | 0.003 | 0.20 | 32.6 | 13 | 23.9 | 4.7 | 0.409 | 0.288 | < 0.01 | < 5 |
| 91820 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 13.2 | 11 | 9.8 | 1.3 | 0.0627 | 0.028 | < 0.01 | |
| 91821 | 0.3 | 2.3 | 3.9 | 0.001 | 0.20 | 11.6 | 18 | 7.3 | 1.5 | 0.968 | 0.186 | 0.02 | |
| 91822 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.32 | 12.1 | 17 | 13.0 | 1.6 | 0.292 | 0.156 | 0.01 | < 5 |
| 91823 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 15.3 | 18 | 13.9 | 1.8 | 0.159 | 0.148 | 0.02 | |
| 91824 | 0.3 | < 0.1 | 0.2 | < 0.001 | 0.25 | 12.2 | 16 | 13.7 | 1.3 | 0.188 | 0.127 | 0.01 | |
| 91825 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.44 | 15.1 | 15 | 10.2 | 2.6 | 0.214 | 0.095 | 0.01 | < 5 |
| 92236 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 12.6 | 14 | 9.8 | 1.1 | 0.132 | 0.126 | < 0.01 | |
| 92237 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.26 | 17.1 | 19 | 15.4 | 2.2 | 0.263 | 0.217 | < 0.01 | |
| 92238 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.21 | 13.5 | 14 | 9.0 | 1.0 | 0.111 | 0.116 | < 0.01 | < 5 |
| 92239 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.25 | 15.5 | 15 | 9.8 | 1.2 | 0.155 | 0.105 | < 0.01 | |
| 92240 | 0.2 | 0.5 | 0.2 | 0.001 | 0.24 | 13.6 | 25 | 6.9 | 0.9 | 0.794 | 0.256 | 0.01 | |
| 92241 | 0.4 | 0.1 | < 0.1 | 0.004 | 0.35 | 21.7 | 19 | 17.1 | 1.5 | 0.315 | 0.244 | 0.01 | < 5 |
| 92242 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.36 | 30.4 | 20 | 23.0 | 1.9 | 0.200 | 0.203 | < 0.01 | |
| 92243 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.31 | 25.6 | 20 | 22.8 | 3.5 | 0.196 | 0.302 | 0.03 | |
| 92244 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 18.1 | 23 | 15.9 | 2.4 | 0.321 | 0.192 | 0.01 | < 5 |
| 92245 | 0.2 | 0.2 | < 0.1 | 0.003 | 0.23 | 16.6 | 13 | 9.6 | 1.4 | 0.187 | 0.080 | < 0.01 | |
| 92246 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.21 | 11.8 | 14 | 8.9 | 0.9 | 0.139 | 0.090 | < 0.01 | |
| 92247 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.28 | 20.5 | 21 | 20.9 | 2.0 | 0.360 | 0.209 | 0.02 | < 5 |
| 92248 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.20 | 19.3 | 17 | 10.8 | 4.6 | 0.364 | 0.170 | 0.09 | |
| 92249 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.29 | 24.2 | 24 | 26.5 | 2.3 | 0.271 | 0.299 | 0.03 | |
| 92250 | 0.2 | 1.7 | 0.5 | 0.002 | 0.28 | 26.3 | 12 | 8.8 | 1.2 | 0.795 | 0.223 | 0.02 | < 5 |
| 92251 | 0.3 | 0.3 | < 0.1 | < 0.001 | 0.40 | 25.7 | 24 | 26.6 | 3.9 | 0.363 | 0.194 | 0.05 | |
| 92252 | 1.4 | 0.5 | < 0.1 | 0.005 | 0.52 | 218 | 39 | 56.7 | 8.1 | 0.345 | 0.403 | < 0.01 | |
| 92253 | 0.5 | 0.8 | < 0.1 | 0.001 | 0.35 | 34.3 | 20 | 44.8 | 3.9 | 0.631 | 0.360 | < 0.01 | < 5 |
| 92254 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.39 | 33.4 | 23 | 29.3 | 2.7 | 0.364 | 0.268 | 0.04 | |
| 92255 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.41 | 37.6 | 25 | 35.5 | 3.3 | 0.460 | 0.333 | 0.03 | |
| 92256 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.39 | 31.1 | 27 | 31.2 | 3.0 | 0.518 | 0.328 | 0.03 | < 5 |
| 92257 | 0.3 | 0.1 | 0.4 | 0.002 | 0.34 | 28.2 | 19 | 23.9 | 3.5 | 0.600 | 0.285 | 0.07 | |
| 92258 | 0.4 | < 0.1 | < 0.1 | 0.020 | 0.36 | 26.1 | 22 | 29.8 | 1.3 | 0.551 | 0.206 | 0.01 | |
| 92259 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.39 | 27.4 | 24 | 25.9 | 1.1 | 0.505 | 0.199 | < 0.01 | 6 |
| 92260 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 24.3 | 30 | 18.2 | 5.0 | 0.834 | 0.202 | 0.02 | |
| 92261 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.29 | 33.2 | 17 | 36.7 | 4.9 | 0.277 | 0.121 | < 0.01 | |
| 92262 | 0.5 | < 0.1 | < 0.1 | 0.001 | 0.21 | 27.0 | 12 | 27.4 | 13.7 | 0.0449 | 0.440 | 0.05 | 7 |
| 92263 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.27 | 14.8 | 17 | 15.8 | 7.1 | 0.169 | 0.176 | 0.03 | |
| 92264 | 0.4 | < 0.1 | < 0.1 | 0.004 | 0.27 | 32.3 | 20 | 23.7 | 2.5 | 0.142 | 0.171 | 0.02 | |
| 92265 | 0.4 | < 0.1 | 0.2 | 0.004 | 0.27 | 52.3 | 22 | 30.6 | 12.5 | 0.480 | 0.150 | 0.08 | 6 |
| 92266 | 1.6 | < 0.1 | < 0.1 | 0.004 | 0.39 | 852 | 176 | > 200 | 2.5 | 0.164 | 0.661 | 0.10 | |
| 92267 | 0.6 | < 0.1 | 0.6 | 0.001 | 0.34 | 44.5 | 21 | 69.6 | 3.5 | 0.633 | 0.436 | 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92268 | 0.4 | < 0.1 | < 0.1 | 0.009 | 0.31 | 39.0 | 19 | 23.1 | 3.4 | 0.293 | 0.151 | 0.06 | 7 |
| 92340 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.21 | 13.9 | 21 | 13.9 | 1.3 | 0.256 | 0.160 | < 0.01 | |
| 92341 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.18 | 12.0 | 15 | 9.7 | 5.0 | 0.202 | 0.139 | 0.05 | |
| 92342 | 0.2 | 0.7 | 0.3 | 0.003 | 0.11 | 7.4 | 5 | 9.6 | 6.7 | 0.227 | 0.129 | 0.20 | 6 |
| 92343 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.17 | 11.1 | 17 | 12.3 | 2.7 | 0.140 | 0.107 | 0.05 | |
| 92344 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.33 | 15.9 | 17 | 13.2 | 1.2 | 0.163 | 0.170 | < 0.01 | |
| 92345 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 27.6 | 15 | 17.7 | 2.1 | 0.263 | 0.127 | 0.04 | < 5 |
| 92346 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 17.9 | 20 | 15.7 | 1.4 | 0.297 | 0.216 | < 0.01 | |
| 92347 | 0.5 | < 0.1 | < 0.1 | 0.005 | 0.39 | 31.9 | 22 | 24.8 | 1.9 | 0.506 | 0.336 | 0.01 | |
| 92348 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.34 | 20.6 | 18 | 17.5 | 1.5 | 0.277 | 0.229 | < 0.01 | < 5 |
| 92349 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.09 | 4.5 | 11 | 3.8 | 0.8 | 0.109 | 0.056 | < 0.01 | |
| 92350 | 0.4 | 3.5 | 0.5 | 0.004 | 0.17 | 25.4 | 15 | 19.0 | 2.2 | 0.577 | 0.228 | 0.21 | |
| 92204 | 0.3 | 0.2 | < 0.1 | < 0.001 | 0.27 | 31.1 | 20 | 19.6 | 2.8 | 0.350 | 0.207 | 0.03 | 11 |
| 92205 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 46.6 | 19 | 21.8 | 2.6 | 0.352 | 0.167 | 0.02 | |
| 92206 | 0.5 | < 0.1 | < 0.1 | 0.001 | 0.44 | 75.4 | 32 | 51.1 | 2.9 | 0.309 | 0.232 | 0.03 | |
| 92207 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 18.8 | 10 | 15.7 | 11.7 | 0.160 | 0.196 | 0.06 | 13 |
| 92208 | 0.8 | < 0.1 | < 0.1 | 0.006 | 0.23 | 54.8 | 12 | 68.2 | 27.6 | 0.0208 | 1.15 | 0.13 | |
| 92209 | 0.8 | < 0.1 | < 0.1 | 0.005 | 0.30 | 41.7 | 18 | 57.3 | 8.6 | 0.270 | 0.626 | 0.01 | |
| 92210 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.26 | 20.6 | 23 | 26.3 | 3.7 | 0.385 | 0.214 | 0.07 | < 5 |
| 92211 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.28 | 22.8 | 23 | 21.0 | 2.8 | 0.320 | 0.277 | 0.01 | |
| 92212 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.51 | 36.5 | 32 | 25.8 | 3.4 | 0.379 | 0.236 | 0.05 | |
| 92213 | 0.2 | 2.4 | 0.8 | 0.004 | 0.35 | 24.0 | 11 | 8.0 | 2.0 | 0.806 | 0.133 | < 0.01 | < 5 |
| 92214 | 0.5 | 0.5 | < 0.1 | < 0.001 | 0.51 | 74.3 | 32 | 68.1 | 4.9 | 0.213 | 0.246 | 0.02 | |
| 92215 | 0.6 | < 0.1 | < 0.1 | 0.002 | 0.78 | 97.1 | 81 | > 200 | 1.9 | 0.433 | 0.404 | 0.03 | |
| 92216 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.48 | 45.1 | 23 | 32.3 | 2.9 | 0.251 | 0.169 | 0.02 | < 5 |
| 92217 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.43 | 42.6 | 24 | 38.3 | 3.3 | 0.428 | 0.241 | 0.02 | |
| 92218 | 0.6 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 37.6 | 29 | 35.0 | 3.0 | 0.307 | 0.320 | 0.02 | |
| 92219 | 1.0 | 0.6 | 1.8 | 0.002 | 0.56 | 143 | 52 | 106 | 1.8 | 0.666 | 0.320 | 0.04 | < 5 |
| 92220 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.36 | 41.4 | 27 | 29.4 | 2.7 | 0.390 | 0.285 | 0.05 | |
| 92221 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 27.8 | 24 | 28.4 | 4.3 | 0.198 | 0.184 | 0.06 | |
| 92222 | 0.2 | 1.6 | 0.6 | < 0.001 | 0.23 | 28.5 | 20 | 10.1 | 1.6 | 1.33 | 0.314 | 0.02 | < 5 |
| 92223 | 0.7 | 1.1 | < 0.1 | < 0.001 | 0.24 | 29.4 | 27 | 28.3 | 3.7 | 0.239 | 0.165 | < 0.01 | |
| 92224 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 17.9 | 21 | 9.4 | 1.6 | 0.114 | 0.093 | < 0.01 | |
| 92225 | 0.3 | 0.1 | < 0.1 | 0.002 | 0.13 | 5.6 | 21 | 7.2 | 2.2 | 0.170 | 0.098 | 0.03 | 7 |
| 92226 | < 0.1 | < 0.1 | < 0.1 | 0.013 | 0.09 | 1.4 | 1 | 1.9 | 17.6 | 0.0094 | 0.082 | 1.30 | |
| 92227 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 28.6 | 22 | 26.9 | 3.0 | 0.561 | 0.382 | < 0.01 | |
| 92228 | 0.1 | 0.2 | 0.2 | 0.041 | 0.06 | 3.8 | 3 | 2.3 | 15.4 | 0.0477 | 0.114 | 2.32 | 8 |
| 92229 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 15.9 | 16 | 12.3 | 1.3 | 0.198 | 0.155 | 0.01 | |
| 92230 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.06 | 4.7 | 19 | 4.1 | 0.4 | 0.240 | 0.035 | < 0.01 | |
| 92231 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 18.5 | 15 | 9.7 | 1.9 | 0.0666 | 0.023 | 0.02 | < 5 |
| 92232 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 11.6 | 15 | 11.3 | 2.2 | 0.297 | 0.154 | 0.14 | |
| 92233 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 10.2 | 20 | 11.3 | 3.4 | 0.139 | 0.174 | 0.05 | |
| 92234 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.07 | 2.5 | 16 | 1.9 | 3.3 | 0.142 | 0.097 | 0.15 | 6 |
| 92235 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 15.7 | 21 | 12.2 | 1.2 | 0.127 | 0.129 | 0.01 | |
| 92269 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.31 | 45.1 | 28 | 29.2 | 2.3 | 0.232 | 0.228 | 0.04 | |
| 92270 | 1.0 | < 0.1 | < 0.1 | 0.002 | 0.32 | 56.8 | 24 | 56.8 | 8.1 | 0.312 | 0.517 | < 0.01 | < 5 |
| 92271 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.39 | 63.6 | 26 | 24.5 | 2.1 | 0.359 | 0.279 | 0.02 | |
| 92272 | 0.5 | < 0.1 | < 0.1 | 0.001 | 0.44 | 116 | 34 | 93.6 | 14.1 | 0.358 | 0.292 | 0.03 | |
| 92273 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.50 | 47.5 | 26 | 38.8 | 1.9 | 0.461 | 0.235 | 0.02 | < 5 |
| 92274 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 20.6 | 20 | 19.0 | 1.1 | 0.199 | 0.126 | < 0.01 | |
| 92275 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.37 | 18.4 | 19 | 13.1 | 1.0 | 0.199 | 0.078 | 0.01 | |
| 100726 | 0.1 | 0.3 | 0.4 | < 0.001 | 0.20 | 10.7 | 17 | 7.0 | 0.6 | 0.713 | 0.066 | < 0.01 | < 5 |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 100727 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.23 | 9.9 | 16 | 10.1 | 1.7 | 0.213 | 0.131 | 0.02 | |
| 100728 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.29 | 11.9 | 30 | 15.3 | 0.7 | 0.143 | 0.097 | 0.02 | |
| 100729 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 10.5 | 32 | 16.1 | 0.7 | 0.168 | 0.094 | 0.01 | < 5 |
| 100730 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 11.1 | 19 | 11.0 | 0.9 | 0.162 | 0.076 | < 0.01 | |
| 100731 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 12.3 | 18 | 11.1 | 0.9 | 0.292 | 0.100 | < 0.01 | |
| 100732 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.24 | 12.3 | 31 | 16.5 | 1.0 | 0.427 | 0.135 | 0.01 | < 5 |
| 100733 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.18 | 8.2 | 30 | 5.9 | 0.4 | 0.398 | 0.071 | < 0.01 | |
| 100734 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.25 | 10.6 | 32 | 12.8 | 1.1 | 0.222 | 0.107 | < 0.01 | |
| 100735 | 0.2 | 1.0 | 0.5 | 0.001 | 0.30 | 11.8 | 19 | 4.3 | 0.7 | 0.924 | 0.099 | 0.02 | 46 |
| 100736 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 14.4 | 13 | 8.1 | 0.9 | 0.282 | 0.086 | < 0.01 | |
| 100737 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 10.0 | 14 | 8.6 | 0.6 | 0.149 | 0.077 | < 0.01 | |
| 100738 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.14 | 8.6 | 24 | 10.8 | 0.7 | 0.257 | 0.129 | 0.02 | 8 |
| 100739 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.33 | 16.7 | 10 | 11.6 | 1.1 | 0.282 | 0.084 | < 0.01 | |
| 91924 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.29 | 17.2 | 26 | 11.1 | 1.3 | 0.389 | 0.173 | 0.01 | |
| 91925 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.38 | 13.6 | 25 | 10.4 | 3.0 | 0.390 | 0.140 | 0.07 | < 5 |
| 91926 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.45 | 17.4 | 25 | 12.8 | 1.7 | 0.572 | 0.204 | 0.03 | |
| 91927 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 17.8 | 22 | 16.6 | 1.8 | 0.247 | 0.211 | 0.03 | |
| 91928 | 0.5 | 0.1 | < 0.1 | 0.002 | 0.28 | 65.1 | 23 | 43.0 | 5.8 | 0.319 | 0.550 | < 0.01 | < 5 |
| 91929 | 0.8 | < 0.1 | < 0.1 | 0.002 | 0.09 | 61.0 | 25 | 33.2 | 7.3 | 0.259 | 1.10 | 0.02 | |
| 91930 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.14 | 10.4 | 22 | 13.6 | 1.2 | 0.127 | 0.103 | 0.03 | |
| 91931 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.37 | 13.3 | 18 | 9.5 | 1.4 | 0.186 | 0.107 | < 0.01 | < 5 |
| 91932 | 0.7 | < 0.1 | < 0.1 | 0.005 | 0.34 | 119 | 44 | 70.8 | 6.5 | 0.561 | 0.455 | 0.12 | |
| 91933 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 19.8 | 23 | 24.3 | 4.8 | 0.381 | 0.178 | 0.04 | |
| 91934 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 11.2 | 16 | 7.9 | 0.8 | 0.286 | 0.112 | 0.01 | < 5 |
| 91935 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.42 | 15.3 | 14 | 8.5 | 1.1 | 0.184 | 0.070 | < 0.01 | |
| 91936 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 14.6 | 12 | 10.7 | 0.9 | 0.156 | 0.039 | < 0.01 | |
| 91937 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.34 | 13.0 | 16 | 8.3 | 0.9 | 0.131 | 0.084 | < 0.01 | < 5 |
| 91938 | 0.1 | 0.2 | 0.5 | 0.001 | < 0.05 | 6.3 | 22 | 1.0 | 0.3 | 0.743 | 0.121 | < 0.01 | |
| 91939 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 13.9 | 15 | 10.7 | 1.1 | 0.292 | 0.078 | < 0.01 | |
| 91940 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 11.8 | 17 | 11.0 | 1.1 | 0.0962 | 0.088 | < 0.01 | < 5 |
| 91941 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 10.3 | 16 | 8.6 | 0.7 | 0.108 | 0.054 | < 0.01 | |
| 91942 | 0.4 | < 0.1 | < 0.1 | 0.006 | 0.39 | 13.5 | 27 | 18.2 | 5.0 | 0.299 | 0.110 | 0.06 | |
| 91943 | 0.5 | < 0.1 | < 0.1 | 0.003 | 0.24 | 10.6 | 43 | 9.5 | 1.4 | 0.340 | 0.184 | 0.13 | 26 |
| 91944 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.07 | 6.4 | 23 | 12.6 | 0.5 | 0.192 | 0.079 | 0.01 | |
| 91945 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 6.9 | 29 | 5.5 | 0.9 | 0.221 | 0.112 | < 0.01 | |
| 91946 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.24 | 10.6 | 22 | 9.4 | 0.6 | 0.206 | 0.099 | 0.01 | 9 |
| 91947 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 11.9 | 12 | 6.8 | 0.6 | 0.176 | 0.038 | < 0.01 | |
| 91948 | 0.1 | 0.5 | 0.5 | < 0.001 | 0.27 | 11.8 | 9 | 3.3 | 0.6 | 0.579 | 0.060 | < 0.01 | |
| 91949 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.15 | 8.1 | 36 | 7.6 | 0.5 | 0.130 | 0.131 | < 0.01 | 9 |
| 91950 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 12.5 | 17 | 10.1 | 1.1 | 0.140 | 0.098 | 0.01 | |
| 91951 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.26 | 14.1 | 20 | 10.4 | 1.0 | 0.137 | 0.091 | < 0.01 | |
| 91952 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 13.8 | 14 | 8.1 | 1.0 | 0.210 | 0.071 | < 0.01 | < 5 |
| 91953 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 12.7 | 14 | 9.8 | 0.8 | 0.130 | 0.062 | < 0.01 | |
| 91954 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.36 | 17.6 | 12 | 7.7 | 1.1 | 0.229 | 0.046 | < 0.01 | |
| 91955 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.32 | 13.5 | 13 | 7.1 | 4.4 | 0.187 | 0.066 | < 0.01 | < 5 |
| 91956 | 0.2 | 0.2 | 0.6 | < 0.001 | 0.28 | 8.6 | 11 | 7.5 | 1.2 | 0.113 | 0.099 | 0.37 | |
| 91957 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.44 | 18.0 | 12 | 8.8 | 1.1 | 0.273 | 0.072 | < 0.01 | |
| 91958 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.41 | 15.6 | 13 | 8.5 | 1.0 | 0.203 | 0.061 | < 0.01 | < 5 |
| 91959 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 13.5 | 19 | 9.8 | 0.9 | 0.142 | 0.072 | < 0.01 | |
| 91960 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 13.6 | 12 | 7.3 | 1.0 | 0.0943 | 0.049 | < 0.01 | |
| 91961 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 12.1 | 14 | 8.6 | 0.8 | 0.158 | 0.084 | < 0.01 | 11 |
| 91962 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.18 | 7.8 | 20 | 7.0 | 0.7 | 0.179 | 0.092 | < 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 91963 | 0.9 | 0.6 | < 0.1 | < 0.001 | < 0.05 | 55.8 | 32 | 49.7 | 8.7 | 0.558 | 0.766 | 0.02 | |
| 91964 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 15.4 | 17 | 14.2 | 6.6 | 0.268 | 0.142 | 0.03 | < 5 |
| 91965 | 0.8 | < 0.1 | < 0.1 | 0.002 | 0.44 | 52.9 | 30 | 60.2 | 7.7 | 0.253 | 0.774 | < 0.01 | |
| 91966 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.47 | 19.4 | 23 | 19.6 | 5.6 | 0.338 | 0.221 | 0.05 | |
| 91967 | 0.2 | 1.4 | 1.6 | < 0.001 | 0.29 | 10.6 | 19 | 3.9 | 0.8 | 1.00 | 0.127 | 0.01 | < 5 |
| 91968 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 22.3 | 23 | 14.9 | 1.6 | 0.228 | 0.213 | < 0.01 | |
| 91969 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.27 | 8.7 | 25 | 8.4 | 1.2 | 0.160 | 0.132 | < 0.01 | |
| 91970 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.34 | 9.6 | 19 | 5.8 | 3.9 | 0.136 | 0.105 | 0.06 | < 5 |
| 91971 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.52 | 11.2 | 29 | 10.4 | 1.4 | 0.227 | 0.147 | 0.01 | |
| 91972 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 9.1 | 22 | 6.5 | 0.8 | 0.171 | 0.118 | < 0.01 | |
| 91973 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.35 | 17.3 | 26 | 11.8 | 2.0 | 0.316 | 0.190 | 0.03 | < 5 |
| 91974 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.12 | 15.3 | 34 | 31.6 | 3.2 | 0.544 | 0.215 | 0.01 | |
| 91975 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 4.7 | 28 | 5.1 | 1.5 | 0.706 | 0.123 | 0.17 | |
| 91976 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.22 | 9.6 | 25 | 11.2 | 0.8 | 0.281 | 0.104 | < 0.01 | < 5 |
| 91977 | 0.2 | 1.4 | 2.6 | < 0.001 | 0.23 | 9.0 | 24 | 4.0 | 0.5 | 0.989 | 0.118 | < 0.01 | |
| 91978 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.09 | 5.8 | 28 | 6.0 | 0.4 | 0.128 | 0.153 | < 0.01 | |
| 91979 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.27 | 12.4 | 13 | 7.8 | 0.7 | 0.0774 | 0.061 | < 0.01 | < 5 |
| 91980 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 11.8 | 16 | 11.7 | 0.9 | 0.121 | 0.084 | < 0.01 | |
| 91981 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 9.0 | 29 | 7.6 | 0.5 | 0.135 | 0.076 | < 0.01 | |
| 91982 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 10.9 | 20 | 10.5 | 0.8 | 0.136 | 0.107 | < 0.01 | < 5 |
| 91983 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 12.6 | 13 | 9.2 | 0.7 | 0.226 | 0.066 | < 0.01 | |
| 91984 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.28 | 11.3 | 13 | 7.7 | 0.8 | 0.156 | 0.024 | < 0.01 | |
| 91985 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 9.6 | 26 | 11.7 | 0.8 | 0.284 | 0.098 | 0.01 | < 5 |
| 91986 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 14.6 | 12 | 8.3 | 0.8 | 0.114 | 0.017 | < 0.01 | |
| 91987 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.09 | 7.9 | 23 | 23.7 | 0.4 | 0.172 | 0.067 | < 0.01 | |
| 91988 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 11.4 | 25 | 13.0 | 0.8 | 0.114 | 0.108 | 0.01 | < 5 |
| 91989 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 10.8 | 15 | 7.6 | 0.7 | 0.118 | 0.036 | < 0.01 | |
| 91990 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 8.6 | 14 | 6.5 | 0.5 | 0.147 | 0.024 | < 0.01 | |
| 91991 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.19 | 5.4 | 34 | 6.2 | 0.3 | 0.304 | 0.124 | 0.02 | < 5 |
| 91992 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.16 | 12.0 | 21 | 10.0 | 0.6 | 0.263 | 0.050 | 0.01 | |
| 91993 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.33 | 15.0 | 13 | 8.8 | 0.8 | 0.209 | 0.084 | < 0.01 | |
| 91994 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.30 | 13.1 | 11 | 6.6 | 0.7 | 0.0868 | 0.059 | < 0.01 | < 5 |
| 91995 | 0.1 | 0.5 | 0.9 | < 0.001 | 0.27 | 11.9 | 11 | 4.4 | 0.6 | 0.450 | 0.079 | < 0.01 | |
| 91996 | 0.3 | 0.1 | 0.2 | < 0.001 | 0.21 | 9.3 | 26 | 11.5 | 0.5 | 0.247 | 0.089 | < 0.01 | |
| 91997 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 5.4 | 27 | 4.3 | 0.6 | 0.0979 | 0.021 | 0.01 | < 5 |
| 91998 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 9.6 | 22 | 8.2 | 0.7 | 0.160 | 0.064 | 0.01 | |
| 91999 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.11 | 7.0 | 21 | 11.0 | 0.7 | 0.160 | 0.185 | 0.01 | |
| 92000 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.20 | 9.2 | 16 | 7.8 | 0.8 | 0.146 | 0.100 | < 0.01 | < 5 |
| 91851 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 19.9 | 23 | 17.8 | 2.4 | 0.237 | 0.231 | 0.01 | |
| 91852 | 0.5 | 0.4 | < 0.1 | < 0.001 | 0.35 | 31.8 | 21 | 31.6 | 4.2 | 0.569 | 0.459 | 0.02 | |
| 91853 | 0.3 | 2.5 | 1.0 | < 0.001 | 0.27 | 16.8 | 16 | 17.7 | 2.9 | 0.759 | 0.358 | 0.01 | < 5 |
| 91854 | 0.6 | 0.1 | < 0.1 | < 0.001 | 0.47 | 35.1 | 21 | 28.0 | 5.3 | 0.542 | 0.501 | 0.03 | |
| 91855 | 0.2 | 0.2 | < 0.1 | 0.002 | 0.17 | 6.5 | 20 | 6.9 | 3.7 | 0.474 | 0.112 | 0.09 | |
| 91856 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 9.8 | 23 | 9.6 | 1.1 | 0.139 | 0.147 | 0.01 | < 5 |
| 91857 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.41 | 15.0 | 23 | 14.3 | 1.9 | 0.124 | 0.187 | 0.01 | |
| 91858 | 0.3 | 0.9 | < 0.1 | < 0.001 | 0.37 | 14.2 | 23 | 15.1 | 1.7 | 0.146 | 0.159 | 0.01 | |
| 91859 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.40 | 31.0 | 23 | 32.8 | 4.8 | 0.298 | 0.376 | < 0.01 | < 5 |
| 91860 | 0.1 | 0.1 | < 0.1 | < 0.001 | 0.23 | 7.4 | 21 | 4.9 | 1.0 | 0.161 | 0.041 | 0.01 | |
| 91861 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 17.5 | 17 | 15.6 | 1.7 | 0.330 | 0.221 | < 0.01 | |
| 91862 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.47 | 13.6 | 14 | 9.8 | 1.1 | 0.164 | 0.061 | < 0.01 | < 5 |
| 91863 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.23 | 10.8 | 17 | 7.5 | 0.8 | 0.179 | 0.050 | < 0.01 | |
| 91864 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.43 | 13.4 | 17 | 9.9 | 2.6 | 0.224 | 0.089 | 0.02 | |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 91865 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.95 | 21.5 | 20 | 10.0 | 2.1 | 0.217 | 0.118 | < 0.01 | < 5 |
| 91866 | 0.2 | 2.2 | 0.4 | 0.001 | 0.35 | 16.5 | 13 | 7.3 | 1.3 | 0.963 | 0.140 | 0.01 | |
| 91867 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.34 | 26.3 | 22 | 18.9 | 1.3 | 0.143 | 0.136 | < 0.01 | |
| 91868 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.36 | 31.9 | 29 | 32.2 | 2.1 | 0.316 | 0.214 | 0.01 | < 5 |
| 91869 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 14.3 | 18 | 11.0 | 1.1 | 0.157 | 0.106 | < 0.01 | |
| 91870 | 0.6 | < 0.1 | < 0.1 | 0.004 | 0.25 | 51.7 | 32 | 50.2 | 4.5 | 0.347 | 0.454 | 0.04 | |
| 91871 | 0.2 | 0.2 | < 0.1 | 0.008 | 0.32 | 17.7 | 18 | 12.3 | 18.4 | 0.496 | 0.204 | 0.15 | < 5 |
| 91872 | < 0.1 | < 0.1 | < 0.1 | 0.005 | 0.43 | 8.3 | 64 | 7.5 | 3.7 | 0.285 | 0.040 | 0.02 | |
| 91873 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.34 | 17.7 | 19 | 15.5 | 1.6 | 0.378 | 0.217 | 0.01 | |
| 91874 | 0.5 | 0.2 | 0.8 | 0.003 | 0.29 | 20.9 | 21 | 22.0 | 3.7 | 0.547 | 0.397 | 0.01 | < 5 |
| 91875 | 0.1 | 1.3 | 1.5 | 0.002 | 0.31 | 12.6 | 13 | 4.2 | 0.8 | 0.723 | 0.117 | 0.01 | |
| 91876 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 12.2 | 13 | 7.4 | 0.8 | 0.324 | 0.086 | < 0.01 | |
| 91877 | 0.4 | 0.2 | < 0.1 | 0.002 | 0.39 | 29.3 | 21 | 23.2 | 3.7 | 0.330 | 0.219 | 0.01 | < 5 |
| 91878 | 0.7 | < 0.1 | 0.1 | 0.005 | 0.44 | 37.0 | 22 | 33.6 | 5.8 | 0.413 | 0.322 | < 0.01 | |
| 91879 | 0.5 | < 0.1 | < 0.1 | 0.004 | 0.15 | 23.5 | 27 | 17.3 | 1.8 | 0.200 | 0.238 | 0.02 | |
| 91880 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.13 | 11.8 | 15 | 10.9 | 1.2 | 0.195 | 0.130 | 0.01 | 14 |
| 91881 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.08 | 8.6 | 25 | 6.4 | 0.6 | 0.285 | 0.117 | < 0.01 | |
| 91882 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.12 | 11.0 | 13 | 9.7 | 0.7 | 0.386 | 0.137 | < 0.01 | |
| 91883 | 0.2 | < 0.1 | < 0.1 | 0.008 | 0.10 | 8.6 | 20 | 9.4 | 0.8 | 0.355 | 0.108 | < 0.01 | < 5 |
| 91884 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.09 | 7.0 | 25 | 10.4 | 0.7 | 0.218 | 0.153 | < 0.01 | |
| 91885 | 0.1 | 1.3 | 2.7 | 0.004 | 0.07 | 6.9 | 14 | 3.0 | 0.6 | 1.09 | 0.112 | 0.01 | |
| 91886 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.05 | 3.7 | 20 | 5.6 | 0.3 | 0.179 | 0.057 | 0.02 | < 5 |
| 91887 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.17 | 9.5 | 19 | 8.7 | 0.9 | 0.221 | 0.116 | < 0.01 | |
| 91888 | 0.2 | < 0.1 | < 0.1 | 0.006 | 0.37 | 11.4 | 17 | 7.8 | 1.1 | 0.265 | 0.064 | < 0.01 | |
| 91889 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.20 | 18.6 | 15 | 9.8 | 1.1 | 0.121 | 0.083 | 0.01 | < 5 |
| 91890 | 0.3 | < 0.1 | < 0.1 | 0.007 | 0.12 | 31.1 | 22 | 18.9 | 1.8 | 0.175 | 0.190 | 0.01 | |
| 91891 | < 0.1 | < 0.1 | < 0.1 | 0.010 | < 0.05 | 1.6 | 3 | 1.3 | 9.1 | 0.0176 | 0.078 | 0.64 | |
| 91892 | 0.2 | < 0.1 | < 0.1 | 0.006 | < 0.05 | 6.4 | 24 | 5.3 | 2.2 | 0.265 | 0.080 | 0.05 | < 5 |
| 91893 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.18 | 12.6 | 17 | 22.7 | 2.2 | 0.247 | 0.160 | 0.02 | |
| 91894 | 0.4 | < 0.1 | < 0.1 | 0.003 | 0.28 | 28.3 | 15 | 15.9 | 4.2 | 0.153 | 0.150 | < 0.01 | |
| 91895 | 0.2 | 3.9 | 2.6 | 0.001 | 0.25 | 14.1 | 16 | 7.1 | 1.5 | 0.915 | 0.299 | 0.03 | < 5 |
| 91896 | 0.2 | < 0.1 | < 0.1 | 0.006 | 0.47 | 18.9 | 16 | 11.2 | 1.6 | 0.295 | 0.130 | 0.01 | |
| 91897 | 0.4 | < 0.1 | 0.5 | 0.006 | 0.25 | 25.9 | 18 | 17.9 | 2.7 | 0.632 | 0.299 | 0.02 | |
| 91898 | 1.1 | < 0.1 | 0.3 | 0.002 | 0.55 | 97.2 | 25 | 65.1 | 11.4 | 0.153 | 1.04 | < 0.01 | < 5 |
| 91899 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.30 | 12.7 | 13 | 7.7 | 0.9 | 0.159 | 0.045 | < 0.01 | |
| 91900 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.39 | 26.5 | 21 | 17.6 | 3.3 | 0.481 | 0.242 | 0.01 | |
| 91901 | 0.3 | 0.9 | 1.2 | 0.003 | 0.34 | 18.6 | 16 | 13.4 | 2.7 | 0.564 | 0.318 | < 0.01 | < 5 |
| 91902 | 0.4 | 1.1 | 0.6 | 0.004 | 0.38 | 25.2 | 20 | 17.5 | 3.9 | 0.513 | 0.298 | 0.05 | |
| 91903 | 0.2 | 1.8 | 1.0 | 0.005 | 0.32 | 15.1 | 15 | 7.7 | 4.1 | 0.622 | 0.175 | 0.05 | |
| 91904 | < 0.1 | < 0.1 | 0.1 | 0.031 | 0.07 | 1.6 | 3 | 2.1 | 24.4 | 0.0288 | 0.097 | 3.37 | 13 |
| 91905 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.30 | 21.8 | 23 | 16.6 | 1.7 | 0.227 | 0.183 | 0.03 | |
| 91906 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.34 | 13.3 | 17 | 8.6 | 1.7 | 0.197 | 0.093 | 0.02 | |
| 91907 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.45 | 31.2 | 25 | 23.6 | 1.6 | 0.139 | 0.198 | 0.01 | < 5 |
| 91908 | 1.2 | < 0.1 | < 0.1 | 0.006 | 0.28 | 128 | 74 | 129 | 2.7 | 0.256 | 0.306 | 0.04 | |
| 91909 | 0.5 | 0.8 | 0.1 | 0.005 | 0.40 | 39.9 | 28 | 29.3 | 2.2 | 0.689 | 0.334 | 0.03 | |
| 91910 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.33 | 17.6 | 19 | 14.7 | 1.7 | 0.228 | 0.141 | 0.01 | < 5 |
| 91911 | 0.7 | < 0.1 | < 0.1 | 0.003 | 0.33 | 39.7 | 27 | 48.7 | 8.4 | 0.180 | 1.01 | < 0.01 | |
| 91912 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.35 | 20.0 | 22 | 15.3 | 1.8 | 0.481 | 0.291 | 0.01 | |
| 91913 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.44 | 19.9 | 20 | 16.4 | 1.9 | 0.335 | 0.201 | 0.01 | 10 |
| 91914 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.29 | 18.0 | 19 | 9.7 | 1.8 | 0.742 | 0.164 | 0.03 | |
| 91915 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.26 | 12.8 | 20 | 9.1 | 1.8 | 0.119 | 0.115 | 0.01 | |
| 91916 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.20 | 12.3 | 19 | 5.4 | 1.1 | 0.176 | 0.085 | < 0.01 | < 5 |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 91917 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.17 | 10.7 | 26 | 6.7 | 0.9 | 0.0931 | 0.142 | < 0.01 | |
| 91918 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 14.0 | 22 | 10.6 | 1.3 | 0.139 | 0.141 | 0.01 | |
| 91919 | 0.3 | < 0.1 | < 0.1 | 0.008 | 0.36 | 13.8 | 30 | 9.7 | 2.0 | 0.338 | 0.166 | 0.03 | < 5 |
| 91920 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.21 | 10.1 | 27 | 7.8 | 1.2 | 0.211 | 0.130 | 0.01 | |
| 91921 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.28 | 13.0 | 27 | 11.2 | 1.4 | 0.285 | 0.172 | 0.03 | |
| 91922 | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.32 | 45.9 | 13 | 6.7 | 4.4 | 0.209 | 0.125 | 0.14 | < 5 |
| 91923 | 0.2 | 0.1 | < 0.1 | 0.004 | 0.20 | 12.1 | 21 | 7.7 | 1.2 | 0.295 | 0.093 | 0.02 | |
| 92576 | 0.1 | 0.8 | 1.0 | 0.003 | 0.38 | 16.2 | 12 | 5.1 | 0.9 | 0.402 | 0.050 | 0.01 | |
| 92577 | 0.1 | < 0.1 | 0.3 | 0.002 | 0.35 | 15.5 | 10 | 7.8 | 1.0 | 0.302 | 0.063 | 0.01 | < 5 |
| 92578 | 0.1 | 0.2 | 0.3 | 0.001 | 0.39 | 17.4 | 9 | 7.4 | 1.0 | 0.255 | 0.053 | < 0.01 | |
| 92579 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.39 | 16.6 | 12 | 8.8 | 1.8 | 0.292 | 0.082 | < 0.01 | |
| 92580 | 0.2 | 0.7 | 0.6 | 0.004 | 0.35 | 16.9 | 12 | 11.7 | 1.6 | 0.214 | 0.149 | < 0.01 | 17 |
| 92581 | 0.2 | 0.9 | 0.6 | 0.003 | 0.38 | 16.7 | 12 | 12.7 | 2.1 | 0.345 | 0.173 | 0.05 | |
| 92582 | 0.4 | < 0.1 | 0.8 | 0.014 | 0.44 | 15.0 | 22 | 18.3 | 46.0 | 0.352 | 0.329 | 0.04 | |
| 92583 | 0.4 | < 0.1 | < 0.1 | 0.004 | 0.38 | 27.1 | 16 | 76.2 | 6.8 | 0.0432 | 0.948 | < 0.01 | < 5 |
| 92584 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.37 | 17.2 | 11 | 10.1 | 1.1 | 0.178 | 0.058 | < 0.01 | |
| 92585 | 0.3 | 0.9 | 1.1 | 0.003 | 0.44 | 19.1 | 11 | 13.2 | 2.6 | 0.343 | 0.296 | 0.01 | |
| 92586 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.36 | 16.4 | 11 | 11.1 | 1.3 | 0.275 | 0.075 | < 0.01 | < 5 |
| 92587 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.37 | 16.6 | 9 | 8.6 | 0.9 | 0.198 | 0.052 | < 0.01 | |
| 92588 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.38 | 16.1 | 10 | 8.0 | 1.0 | 0.138 | 0.053 | < 0.01 | |
| 92589 | < 0.1 | 0.4 | 0.4 | 0.003 | 0.34 | 14.5 | 8 | 5.6 | 0.8 | 0.216 | 0.052 | 0.01 | 10 |
| 92590 | 0.1 | 0.4 | 0.4 | 0.002 | 0.36 | 16.0 | 9 | 7.8 | 1.1 | 0.231 | 0.064 | < 0.01 | |
| 92591 | 0.2 | 0.4 | 0.2 | 0.005 | 0.42 | 32.5 | 11 | 38.9 | 3.4 | 0.154 | 0.536 | 0.02 | |
| 92592 | 0.1 | 0.7 | 0.3 | 0.001 | 0.33 | 16.3 | 10 | 10.4 | 1.3 | 0.273 | 0.114 | 0.02 | < 5 |
| 92593 | 0.4 | 0.2 | 0.2 | 0.002 | 0.40 | 35.3 | 13 | 33.4 | 2.6 | 0.127 | 0.424 | 0.01 | |
| 92594 | 0.2 | 0.4 | 0.3 | 0.003 | 0.37 | 17.6 | 9 | 13.7 | 1.4 | 0.223 | 0.111 | 0.01 | |
| 92595 | 0.1 | 0.5 | 0.4 | 0.003 | 0.34 | 18.9 | 9 | 11.5 | 1.2 | 0.281 | 0.105 | 0.01 | < 5 |
| 92596 | 0.1 | 0.9 | 0.6 | 0.004 | 0.34 | 16.2 | 9 | 9.2 | 1.3 | 0.244 | 0.106 | 0.01 | |
| 92597 | 0.3 | 0.7 | 0.7 | 0.004 | 0.36 | 14.3 | 17 | 19.5 | 16.5 | 0.371 | 0.323 | 0.05 | |
| 92598 | 0.1 | 1.9 | 0.7 | 0.004 | 0.34 | 14.7 | 6 | 2.5 | 1.3 | 0.268 | 0.161 | 0.01 | < 5 |
| 92599 | 0.9 | < 0.1 | 0.8 | 0.005 | 0.22 | 84.4 | 12 | 32.4 | 62.9 | 0.0160 | 2.53 | 0.03 | |
| 92600 | 0.4 | < 0.1 | < 0.1 | 0.003 | 0.46 | 22.4 | 13 | 27.3 | 29.5 | 0.0950 | 0.424 | 0.02 | |
| 92601 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.33 | 21.1 | 13 | 24.4 | 3.2 | 0.0971 | 0.341 | < 0.01 | < 5 |
| 92602 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.54 | 31.4 | 15 | 38.2 | 3.0 | 0.163 | 0.466 | 0.01 | |
| 92603 | 0.4 | < 0.1 | < 0.1 | 0.007 | 0.43 | 30.1 | 18 | 44.7 | 4.9 | 0.191 | 0.297 | < 0.01 | |
| 92604 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.44 | 28.5 | 15 | 37.3 | 3.1 | 0.130 | 0.375 | < 0.01 | < 5 |
| 92605 | 0.5 | < 0.1 | < 0.1 | 0.007 | 0.46 | 47.3 | 17 | 78.2 | 1.8 | 0.0570 | 0.627 | 0.01 | |
| 92606 | 0.6 | 0.3 | 0.2 | < 0.001 | 0.45 | 48.5 | 21 | 101 | 8.5 | 0.112 | 0.621 | 0.02 | |
| 92607 | 0.7 | 0.1 | < 0.1 | < 0.001 | 0.43 | 40.9 | 20 | 121 | 23.9 | 0.0811 | 0.551 | 0.03 | < 5 |
| 92608 | < 0.1 | 0.5 | 0.4 | 0.001 | 0.42 | 16.0 | 8 | 3.8 | 4.8 | 0.289 | 0.066 | 0.02 | |
| 92609 | 0.1 | 0.4 | 0.3 | 0.002 | 0.36 | 14.5 | 7 | 3.3 | 0.6 | 0.272 | 0.043 | < 0.01 | |
| 92610 | 0.1 | 0.4 | 0.3 | 0.004 | 0.38 | 15.5 | 9 | 7.0 | 1.0 | 0.283 | 0.070 | < 0.01 | < 5 |
| 92611 | 0.1 | 0.3 | 0.3 | 0.002 | 0.39 | 16.1 | 10 | 7.8 | 1.0 | 0.301 | 0.051 | 0.01 | |
| 92612 | 0.2 | 0.4 | 0.4 | 0.002 | 0.42 | 19.1 | 11 | 14.7 | 1.2 | 0.319 | 0.109 | 0.02 | |
| 92613 | 0.2 | 0.5 | 0.4 | 0.003 | 0.47 | 19.4 | 11 | 16.0 | 3.3 | 0.313 | 0.160 | 0.02 | < 5 |
| 92614 | 0.2 | 0.3 | 0.2 | 0.002 | 0.33 | 16.1 | 13 | 22.6 | 7.5 | 0.306 | 0.184 | 0.04 | |
| 92615 | 0.3 | 0.3 | < 0.1 | < 0.001 | 0.35 | 48.3 | 14 | 23.2 | 4.8 | 0.101 | 0.444 | 0.01 | |
| 92616 | 0.2 | 0.3 | 0.3 | 0.004 | 0.40 | 17.5 | 10 | 15.8 | 1.6 | 0.299 | 0.147 | < 0.01 | < 5 |
| 92617 | 0.1 | 0.2 | 0.2 | 0.001 | 0.39 | 16.5 | 9 | 8.3 | 1.0 | 0.267 | 0.043 | < 0.01 | |
| 92618 | 0.1 | 1.6 | 0.5 | 0.001 | 0.31 | 14.2 | 8 | 3.2 | 0.7 | 0.326 | 0.080 | < 0.01 | |
| 92619 | 0.1 | 1.0 | 0.3 | 0.003 | 0.32 | 17.2 | 9 | 13.8 | 1.7 | 0.241 | 0.078 | < 0.01 | < 5 |
| 92620 | 1.6 | < 0.1 | 0.2 | 0.002 | 0.49 | 166 | 33 | > 200 | 46.2 | 0.0072 | 4.49 | 0.03 | |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92621 | 0.2 | < 0.1 | 0.2 | 0.004 | 0.40 | 14.8 | 14 | 16.9 | 1.5 | 0.479 | 0.148 | 0.01 | |
| 92622 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.31 | 13.1 | 14 | 9.1 | 1.1 | 0.486 | 0.084 | < 0.01 | < 5 |
| 92623 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.56 | 18.8 | 12 | 15.5 | 1.9 | 0.415 | 0.111 | 0.02 | |
| 92624 | 0.2 | < 0.1 | 0.3 | 0.001 | 0.42 | 16.4 | 13 | 11.0 | 1.7 | 0.401 | 0.078 | < 0.01 | |
| 92625 | 0.3 | 1.4 | 1.0 | 0.004 | 0.43 | 23.8 | 17 | 19.2 | 3.3 | 0.429 | 0.233 | 0.01 | < 5 |
| 92626 | 0.2 | 2.6 | 2.0 | 0.004 | 0.38 | 19.1 | 12 | 7.1 | 1.3 | 0.447 | 0.245 | < 0.01 | |
| 92627 | 1.0 | < 0.1 | 0.3 | 0.006 | 0.15 | 74.7 | 44 | 121 | 38.0 | 0.603 | 0.148 | 0.05 | |
| 92628 | 0.2 | 0.4 | 0.9 | 0.003 | 0.41 | 16.6 | 12 | 13.3 | 7.4 | 0.359 | 0.091 | 0.02 | < 5 |
| 92629 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.36 | 25.7 | 16 | 11.0 | 1.5 | 0.519 | 0.094 | < 0.01 | |
| 92630 | 0.2 | 1.0 | 0.4 | 0.003 | 0.44 | 18.2 | 12 | 19.3 | 3.1 | 0.329 | 0.237 | 0.01 | |
| 92631 | 0.2 | 0.7 | 0.3 | 0.004 | 0.41 | 17.6 | 11 | 15.0 | 1.9 | 0.340 | 0.163 | 0.01 | < 5 |
| 92632 | 0.1 | 0.3 | 0.4 | 0.003 | 0.41 | 18.3 | 10 | 10.7 | 2.1 | 0.336 | 0.064 | < 0.01 | |
| 92633 | < 0.1 | 0.2 | 0.2 | 0.002 | 0.35 | 15.0 | 9 | 6.2 | 0.8 | 0.257 | 0.044 | 0.01 | |
| 92634 | 0.2 | 0.3 | 0.2 | 0.004 | 0.45 | 20.6 | 13 | 14.1 | 2.4 | 0.310 | 0.224 | < 0.01 | < 5 |
| 92635 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.30 | 27.0 | 12 | 26.6 | 29.9 | 0.0515 | 0.867 | 0.04 | |
| 92636 | 0.1 | 1.0 | 0.6 | 0.004 | 0.39 | 16.9 | 9 | 8.4 | 1.2 | 0.332 | 0.101 | < 0.01 | |
| 92637 | 0.1 | 0.4 | 0.4 | 0.004 | 0.49 | 15.9 | 10 | 5.5 | 0.9 | 0.307 | 0.039 | < 0.01 | < 5 |
| 92638 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.37 | 18.0 | 11 | 17.7 | 15.2 | 0.117 | 0.384 | 0.04 | |
| 92639 | 0.4 | 1.0 | 0.4 | 0.005 | 0.50 | 34.0 | 13 | 50.0 | 2.7 | 0.210 | 0.536 | < 0.01 | |
| 92640 | 0.1 | 0.2 | 0.4 | 0.022 | 0.33 | 14.6 | 9 | 8.6 | 0.9 | 0.265 | 0.060 | < 0.01 | < 5 |
| 92641 | 0.1 | < 0.1 | 0.4 | 0.003 | 0.36 | 17.0 | 9 | 10.0 | 1.1 | 0.260 | 0.064 | < 0.01 | |
| 92642 | 0.2 | < 0.1 | 0.3 | 0.004 | 0.39 | 16.5 | 9 | 7.9 | 1.2 | 0.273 | 0.047 | < 0.01 | |
| 92643 | 0.1 | 0.2 | 0.3 | 0.004 | 0.39 | 16.3 | 10 | 8.2 | 1.1 | 0.305 | 0.065 | < 0.01 | < 5 |
| 92644 | 0.1 | 0.2 | 0.2 | 0.001 | 0.36 | 16.6 | 9 | 10.0 | 1.2 | 0.265 | 0.062 | < 0.01 | |
| 92645 | 0.1 | < 0.1 | 0.2 | 0.003 | 0.38 | 16.5 | 9 | 9.0 | 1.0 | 0.254 | 0.057 | < 0.01 | |
| 92646 | 0.6 | < 0.1 | < 0.1 | 0.004 | 0.55 | 51.7 | 15 | 120 | 26.0 | 0.0237 | 1.37 | 0.01 | < 5 |
| 92647 | 0.2 | 0.4 | 0.2 | 0.003 | 0.42 | 18.5 | 6 | 12.6 | 2.7 | 0.0714 | 0.717 | 0.01 | |
| 92648 | 0.2 | 1.0 | 0.5 | 0.003 | 0.41 | 18.1 | 10 | 9.8 | 1.7 | 0.309 | 0.175 | < 0.01 | |
| 92649 | 0.2 | 0.4 | 0.3 | 0.004 | 0.43 | 17.5 | 10 | 11.5 | 1.8 | 0.265 | 0.070 | 0.01 | < 5 |
| 92650 | 0.1 | 0.3 | 0.2 | 0.004 | 0.43 | 22.4 | 7 | 10.6 | 1.5 | 0.182 | 0.045 | < 0.01 | |
| 92651 | 0.2 | 1.5 | 1.3 | 0.005 | 0.47 | 21.7 | 12 | 20.6 | 2.8 | 0.444 | 0.253 | 0.02 | |
| 92652 | 0.4 | 1.0 | 1.2 | 0.003 | 0.35 | 20.6 | 20 | 22.8 | 3.0 | 0.459 | 0.285 | 0.02 | < 5 |
| 92653 | 0.4 | 3.8 | 1.9 | 0.004 | 0.35 | 29.5 | 15 | 35.4 | 6.5 | 0.423 | 0.440 | 0.03 | |
| 92654 | 0.2 | 0.6 | 1.0 | 0.004 | 0.38 | 20.0 | 14 | 22.9 | 2.1 | 0.416 | 0.184 | 0.01 | |
| 92655 | 0.3 | 1.4 | 1.3 | 0.006 | 0.40 | 29.5 | 18 | 45.2 | 8.0 | 0.259 | 0.218 | 0.02 | < 5 |
| 92656 | < 0.1 | 2.2 | 1.1 | 0.002 | 0.36 | 15.4 | 7 | 8.9 | 1.9 | 0.278 | 0.074 | 0.02 | |
| 92657 | 0.1 | 0.3 | 0.8 | 0.003 | 0.30 | 13.5 | 9 | 9.4 | 0.9 | 0.385 | 0.085 | < 0.01 | |
| 92658 | 0.7 | < 0.1 | 0.7 | 0.004 | 0.55 | 41.4 | 17 | 52.6 | 15.4 | 0.122 | 1.12 | 0.06 | < 5 |
| 92659 | 0.3 | 1.5 | 1.3 | 0.001 | 0.42 | 18.8 | 13 | 19.0 | 2.4 | 0.458 | 0.200 | 0.02 | |
| 92660 | 0.2 | 0.8 | 0.7 | 0.001 | 0.38 | 15.9 | 10 | 17.6 | 2.9 | 0.418 | 0.138 | < 0.01 | |
| 92661 | 0.1 | < 0.1 | 0.4 | 0.003 | 0.41 | 16.1 | 9 | 7.9 | 1.0 | 0.319 | 0.044 | 0.01 | < 5 |
| 92662 | 0.3 | 0.8 | 1.4 | 0.004 | 0.38 | 20.9 | 17 | 24.7 | 5.3 | 0.239 | 0.334 | 0.02 | |
| 92663 | 0.1 | < 0.1 | 0.4 | 0.003 | 0.44 | 16.5 | 8 | 8.0 | 0.9 | 0.253 | 0.045 | 0.01 | |
| 92664 | 0.1 | < 0.1 | 0.2 | 0.003 | 0.44 | 17.0 | 8 | 8.5 | 1.3 | 0.238 | 0.047 | 0.01 | < 5 |
| 92665 | 0.7 | < 0.1 | < 0.1 | 0.001 | 0.23 | 22.6 | 14 | 20.3 | 3.9 | 0.0179 | 2.73 | 0.05 | |
| 92666 | < 0.1 | 0.5 | 0.5 | 0.001 | 0.55 | 17.8 | 10 | 7.2 | 0.9 | 0.283 | 0.068 | 0.01 | |
| 92667 | 0.2 | 0.6 | 0.7 | 0.002 | 0.46 | 18.5 | 9 | 14.8 | 1.6 | 0.328 | 0.222 | < 0.01 | < 5 |
| 92668 | 0.1 | 0.3 | 0.4 | 0.010 | 0.39 | 17.1 | 8 | 8.3 | 0.9 | 0.239 | 0.055 | < 0.01 | |
| 92669 | 0.1 | 0.3 | 0.4 | 0.004 | 0.46 | 18.2 | 9 | 10.9 | 1.2 | 0.277 | 0.061 | < 0.01 | |
| 92670 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.36 | 15.1 | 10 | 9.0 | 1.2 | 0.376 | 0.083 | 0.01 | < 5 |
| 92671 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.43 | 17.5 | 9 | 8.7 | 1.1 | 0.260 | 0.064 | < 0.01 | |
| 92672 | 0.2 | 0.4 | 0.2 | 0.001 | 0.37 | 17.9 | 8 | 15.3 | 1.2 | 0.200 | 0.167 | < 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92126 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 12.4 | 16 | 9.6 | 1.0 | 0.238 | 0.088 | < 0.01 | 19 |
| 92127 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.23 | 12.4 | 13 | 6.7 | 0.9 | 0.159 | 0.041 | 0.01 | |
| 92128 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.35 | 14.1 | 11 | 9.0 | 1.0 | 0.159 | 0.065 | < 0.01 | |
| 92129 | 0.2 | 0.9 | 1.6 | < 0.001 | 0.38 | 14.5 | 12 | 7.3 | 1.1 | 0.570 | 0.083 | < 0.01 | < 5 |
| 92130 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.39 | 16.0 | 9 | 5.5 | 0.9 | 0.393 | 0.042 | < 0.01 | |
| 92131 | 0.3 | < 0.1 | < 0.1 | 0.006 | 0.24 | 14.0 | 17 | 16.4 | 1.4 | 0.495 | 0.199 | 0.02 | |
| 92132 | < 0.1 | < 0.1 | 0.3 | 0.006 | 0.36 | 9.4 | 8 | 5.3 | 3.8 | 0.166 | 0.087 | 0.15 | 8 |
| 92133 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.33 | 16.2 | 14 | 11.5 | 1.2 | 0.371 | 0.064 | 0.01 | |
| 92134 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.30 | 15.8 | 10 | 14.3 | 1.2 | 0.323 | 0.071 | 0.01 | |
| 92135 | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.36 | 14.3 | 11 | 10.1 | 1.0 | 0.317 | 0.074 | < 0.01 | 10 |
| 92136 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.31 | 10.8 | 18 | 8.9 | 1.4 | 0.228 | 0.091 | 0.02 | |
| 92137 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.25 | 10.3 | 23 | 7.6 | 1.3 | 0.214 | 0.096 | 0.03 | |
| 92138 | 0.4 | 0.2 | 1.0 | 0.003 | 0.35 | 38.9 | 20 | 22.2 | 2.9 | 0.628 | 0.253 | 0.04 | < 5 |
| 92139 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.22 | 10.9 | 20 | 9.9 | 3.2 | 0.368 | 0.156 | 0.04 | |
| 92140 | 0.3 | 0.5 | 0.1 | 0.002 | 0.44 | 30.1 | 15 | 11.9 | 4.5 | 0.563 | 0.151 | < 0.01 | |
| 92141 | 0.2 | 0.2 | < 0.1 | 0.002 | 0.21 | 9.8 | 16 | 8.6 | 1.3 | 0.607 | 0.135 | 0.02 | < 5 |
| 92142 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 16.7 | 17 | 8.1 | 1.0 | 0.331 | 0.091 | < 0.01 | |
| 92143 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.15 | 11.1 | 20 | 7.6 | 6.0 | 0.397 | 0.177 | 0.08 | |
| 92144 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.14 | 7.7 | 21 | 6.6 | 0.8 | 0.217 | 0.122 | < 0.01 | < 5 |
| 92145 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.14 | 8.3 | 23 | 6.8 | 1.3 | 0.215 | 0.122 | 0.02 | |
| 92146 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.09 | 7.6 | 36 | 2.6 | 3.2 | 0.171 | 0.051 | 0.04 | |
| 92147 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.10 | 9.5 | 21 | 7.9 | 0.9 | 0.276 | 0.095 | 0.01 | < 5 |
| 92148 | 0.2 | 2.6 | 1.6 | 0.002 | 0.15 | 7.9 | 21 | 2.2 | 0.7 | 1.32 | 0.152 | < 0.01 | |
| 92149 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.20 | 7.7 | 17 | 4.9 | 0.8 | 0.905 | 0.111 | 0.02 | |
| 92150 | 0.3 | < 0.1 | < 0.1 | 0.007 | 0.27 | 30.2 | 24 | 17.3 | 3.0 | 0.556 | 0.220 | 0.05 | < 5 |
| 92151 | 0.2 | < 0.1 | < 0.1 | 0.005 | 1.70 | 75.6 | 16 | 9.4 | 1.9 | 0.745 | 0.115 | 0.73 | |
| 92152 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.29 | 11.4 | 20 | 7.8 | 1.0 | 0.382 | 0.113 | 0.02 | |
| 92153 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.19 | 17.5 | 16 | 6.8 | 0.8 | 0.175 | 0.044 | < 0.01 | < 5 |
| 92154 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.16 | 8.3 | 22 | 6.2 | 1.1 | 0.316 | 0.141 | < 0.01 | |
| 92155 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.05 | 3.0 | 25 | 2.5 | 0.9 | 0.226 | 0.132 | 0.02 | |
| 92156 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.14 | 4.0 | 17 | 3.8 | 11.5 | 0.467 | 0.137 | 0.32 | 15 |
| 92157 | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.12 | 21.7 | 13 | 34.9 | 9.0 | 0.441 | 0.182 | < 0.01 | |
| 92158 | 0.1 | 1.9 | 1.9 | 0.004 | 0.15 | 6.9 | 42 | 1.9 | 0.8 | 1.13 | 0.156 | 0.03 | |
| 92159 | 0.2 | 0.1 | < 0.1 | 0.003 | 0.17 | 7.8 | 23 | 4.6 | 0.7 | 0.834 | 0.143 | < 0.01 | < 5 |
| 92160 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.13 | 8.5 | 16 | 5.9 | 0.7 | 0.335 | 0.052 | < 0.01 | |
| 92161 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.20 | 7.9 | 18 | 7.2 | 0.8 | 0.607 | 0.112 | 0.01 | |
| 92162 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.18 | 8.2 | 19 | 7.9 | 0.7 | 0.523 | 0.118 | < 0.01 | < 5 |
| 92163 | 0.2 | < 0.1 | < 0.1 | 0.002 | < 0.05 | 4.6 | 25 | 2.7 | 3.2 | 0.641 | 0.201 | 0.01 | |
| 92164 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.24 | 9.7 | 19 | 8.0 | 1.0 | 0.291 | 0.101 | 0.01 | |
| 92165 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.26 | 10.3 | 20 | 7.4 | 0.7 | 0.273 | 0.101 | 0.01 | 12 |
| 92166 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.32 | 11.3 | 16 | 6.8 | 0.9 | 0.416 | 0.077 | 0.01 | |
| 92167 | 0.5 | < 0.1 | < 0.1 | 0.004 | 0.64 | 24.2 | 20 | 18.4 | 1.7 | 0.389 | 0.102 | < 0.01 | |
| 92168 | 0.1 | 2.7 | 2.4 | < 0.001 | 0.32 | 13.0 | 12 | 5.8 | 1.1 | 0.722 | 0.114 | 0.04 | < 5 |
| 92169 | 0.2 | < 0.1 | 0.4 | 0.003 | 0.33 | 13.3 | 11 | 10.4 | 1.2 | 0.372 | 0.078 | 0.02 | |
| 92170 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.35 | 14.3 | 16 | 9.7 | 1.1 | 0.327 | 0.075 | 0.01 | |
| 92171 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.15 | 11.0 | 11 | 7.5 | 1.8 | 0.304 | 0.099 | < 0.01 | < 5 |
| 92172 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.37 | 16.2 | 13 | 10.2 | 1.2 | 0.302 | 0.057 | 0.01 | |
| 92173 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.45 | 14.6 | 12 | 8.9 | 1.0 | 0.228 | 0.074 | 0.02 | |
| 92174 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.47 | 16.2 | 10 | 8.5 | 1.0 | 0.173 | 0.056 | < 0.01 | < 5 |
| 92175 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.21 | 9.6 | 17 | 8.7 | 0.8 | 0.280 | 0.079 | 0.01 | |
| 92176 | 0.1 | 2.4 | 1.0 | 0.003 | 0.20 | 7.5 | 28 | 4.2 | 0.4 | 2.20 | 0.086 | 0.02 | |
| 92177 | 0.1 | 0.1 | < 0.1 | 0.003 | 0.17 | 9.8 | 16 | 4.5 | 0.5 | 0.692 | 0.053 | 0.01 | < 5 |

Activation Laboratories Ltd. Report: A11-9924

| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92178 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.14 | 6.9 | 17 | 2.8 | 0.4 | 0.467 | 0.094 | < 0.01 | |
| 92179 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.08 | 6.0 | 17 | 7.3 | 0.7 | 0.417 | 0.095 | < 0.01 | |
| 92180 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.13 | 9.4 | 19 | 12.7 | 0.6 | 0.368 | 0.044 | 0.01 | < 5 |
| 92181 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.22 | 12.3 | 10 | 9.5 | 0.8 | 0.345 | 0.062 | < 0.01 | |
| 92182 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.16 | 9.4 | 12 | 8.0 | 0.5 | 0.252 | 0.019 | < 0.01 | |
| 92183 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.24 | 10.4 | 17 | 8.6 | 0.6 | 0.305 | 0.082 | < 0.01 | 10 |
| 92184 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.74 | 26.9 | 14 | 16.0 | 1.9 | 0.310 | 0.078 | < 0.01 | |
| 92185 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.41 | 14.7 | 12 | 7.7 | 1.0 | 0.340 | 0.050 | < 0.01 | |
| 92186 | 0.2 | 1.9 | 1.1 | 0.002 | 0.14 | 5.9 | 22 | 2.2 | 0.7 | 1.03 | 0.068 | 0.04 | < 5 |
| 92187 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.25 | 10.6 | 12 | 4.2 | 0.8 | 0.565 | 0.076 | < 0.01 | |
| 92188 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 12.3 | 11 | 9.6 | 0.9 | 0.497 | 0.055 | 0.01 | |
| 92189 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.27 | 12.5 | 12 | 8.2 | 0.9 | 0.443 | 0.079 | < 0.01 | < 5 |
| 92190 | 0.1 | < 0.1 | 0.3 | 0.001 | 0.37 | 15.3 | 10 | 7.5 | 1.0 | 0.339 | 0.056 | < 0.01 | |
| 92191 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.26 | 15.0 | 12 | 8.8 | 0.9 | 0.304 | 0.046 | < 0.01 | |
| 92192 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.24 | 14.5 | 11 | 11.9 | 1.0 | 0.345 | 0.080 | < 0.01 | 14 |
| 92193 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.15 | 11.4 | 17 | 12.6 | 0.9 | 0.333 | 0.063 | < 0.01 | |
| 92194 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.17 | 11.6 | 19 | 9.1 | 0.7 | 0.237 | 0.086 | < 0.01 | |
| 92195 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.28 | 12.3 | 15 | 8.9 | 0.9 | 0.380 | 0.091 | < 0.01 | < 5 |
| 92196 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.37 | 14.5 | 11 | 7.4 | 0.9 | 0.316 | 0.057 | < 0.01 | |
| 92197 | < 0.1 | 1.9 | 2.3 | 0.002 | 0.11 | 9.0 | 14 | 1.2 | 0.5 | 0.977 | 0.083 | < 0.01 | |
| 92198 | 0.2 | 0.6 | < 0.1 | 0.003 | 0.17 | 9.7 | 18 | 4.6 | 0.7 | 0.935 | 0.118 | < 0.01 | < 5 |
| 92199 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.15 | 7.9 | 17 | 5.4 | 0.6 | 0.463 | 0.094 | < 0.01 | |
| 92200 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.13 | 7.3 | 23 | 7.5 | 0.7 | 0.333 | 0.128 | < 0.01 | |
| 92201 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.09 | 6.7 | 22 | 7.7 | 0.6 | 0.481 | 0.143 | < 0.01 | < 5 |
| 92202 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.15 | 7.3 | 24 | 6.2 | 0.7 | 0.469 | 0.122 | < 0.01 | |
| 92203 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.19 | 8.2 | 20 | 6.7 | 0.8 | 0.312 | 0.111 | < 0.01 | |
| 92376 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.26 | 17.0 | 22 | 15.4 | 1.0 | 0.437 | 0.103 | 0.01 | 6 |
| 92377 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.24 | 12.9 | 16 | 10.0 | 0.8 | 0.252 | 0.084 | 0.01 | |
| 92378 | 0.4 | 2.6 | 3.4 | < 0.001 | 0.32 | 39.0 | 45 | 16.2 | 3.8 | 1.25 | 0.435 | 0.02 | |
| 92379 | 0.6 | 0.2 | 1.6 | 0.003 | 0.65 | 82.3 | 32 | 71.8 | 3.1 | 0.771 | 0.251 | 0.01 | < 5 |
| 92380 | 0.4 | 1.0 | 1.8 | 0.003 | 0.45 | 45.5 | 21 | 31.4 | 1.9 | 0.775 | 0.307 | 0.01 | |
| 92381 | 0.3 | 3.3 | 2.0 | 0.002 | 0.28 | 21.7 | 21 | 24.5 | 2.3 | 0.951 | 0.283 | 0.01 | |
| 92382 | 0.3 | 2.3 | 1.0 | 0.002 | 0.36 | 25.9 | 22 | 25.3 | 2.2 | 0.680 | 0.297 | 0.01 | < 5 |
| 92383 | 0.2 | 1.1 | 0.7 | 0.003 | 0.31 | 19.8 | 17 | 15.8 | 2.0 | 0.676 | 0.245 | 0.03 | |
| 92384 | 0.3 | 1.2 | 0.6 | 0.004 | 0.39 | 26.4 | 25 | 27.7 | 2.5 | 0.770 | 0.319 | 0.04 | |
| 92385 | 0.4 | 0.4 | 0.5 | 0.007 | 0.35 | 33.7 | 23 | 22.4 | 1.8 | 0.696 | 0.265 | 0.02 | < 5 |
| 92386 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.26 | 21.1 | 25 | 15.3 | 1.3 | 0.370 | 0.162 | < 0.01 | |
| 92387 | 0.1 | 4.0 | 8.1 | 0.003 | 0.19 | 19.0 | 18 | 3.6 | 1.2 | 1.22 | 0.133 | 0.01 | |
| 92388 | 0.4 | 0.2 | 0.2 | < 0.001 | 0.36 | 26.0 | 20 | 20.8 | 2.8 | 0.784 | 0.275 | < 0.01 | 13 |
| 92389 | 0.5 | < 0.1 | 0.6 | 0.005 | 0.54 | 28.0 | 29 | 36.3 | 4.8 | 0.796 | 0.276 | 0.02 | |
| 92390 | 0.5 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 37.0 | 24 | 37.7 | 3.1 | 0.767 | 0.295 | 0.02 | |
| 92391 | 0.2 | < 0.1 | < 0.1 | 0.006 | 0.17 | 16.1 | 20 | 14.0 | 1.2 | 0.486 | 0.182 | 0.01 | < 5 |
| 92392 | 0.4 | 1.0 | 1.2 | 0.005 | 0.25 | 20.4 | 21 | 17.0 | 2.0 | 0.878 | 0.344 | 0.02 | |
| 92393 | 0.2 | 0.2 | < 0.1 | 0.004 | 0.21 | 19.5 | 19 | 12.3 | 1.9 | 0.308 | 0.134 | 0.02 | |
| 92394 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.16 | 9.8 | 17 | 9.8 | 1.0 | 0.328 | 0.123 | 0.03 | < 5 |
| 92395 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.21 | 15.2 | 19 | 11.3 | 1.0 | 0.381 | 0.163 | 0.01 | |
| 92396 | < 0.1 | < 0.1 | < 0.1 | 0.003 | 0.08 | 4.8 | 7 | 2.5 | 0.9 | 0.216 | 0.060 | 0.05 | |
| 92397 | 0.3 | 4.4 | 1.1 | 0.004 | 0.18 | 20.1 | 9 | 3.4 | 1.6 | 0.671 | 0.233 | 0.02 | < 5 |
| 92398 | 0.3 | 3.1 | 1.4 | 0.003 | 0.17 | 12.9 | 18 | 7.2 | 1.0 | 0.887 | 0.208 | 0.01 | |
| 92399 | 0.3 | 0.4 | 0.1 | 0.001 | 0.19 | 11.2 | 14 | 7.4 | 0.7 | 0.689 | 0.085 | 0.01 | |
| 92400 | 0.1 | 0.6 | < 0.1 | 0.003 | < 0.05 | 2.4 | 17 | 1.7 | 0.4 | 0.566 | 0.079 | 0.02 | < 5 |
| 92401 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.17 | 13.0 | 15 | 7.7 | 0.9 | 0.428 | 0.097 | 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92402 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.64 | 37.5 | 28 | 18.3 | 0.5 | 0.407 | 0.152 | 0.01 | |
| 92403 | 0.2 | 0.1 | < 0.1 | 0.002 | 0.19 | 15.6 | 14 | 7.1 | 1.9 | 0.278 | 0.048 | 0.02 | < 5 |
| 92404 | 0.2 | 0.3 | 0.2 | 0.001 | 0.24 | 12.8 | 15 | 10.3 | 1.0 | 0.654 | 0.157 | 0.01 | |
| 92405 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 8.1 | 15 | 7.2 | 1.0 | 0.222 | 0.117 | 0.05 | |
| 92406 | 0.1 | 1.9 | 2.0 | 0.005 | 0.25 | 8.3 | 16 | 1.0 | 0.6 | 0.854 | 0.112 | 0.01 | < 5 |
| 92407 | 0.2 | 0.1 | 0.6 | 0.002 | 0.19 | 14.9 | 18 | 6.6 | 1.4 | 0.672 | 0.139 | < 0.01 | |
| 92408 | 0.2 | < 0.1 | 0.6 | 0.002 | 0.14 | 11.0 | 18 | 8.4 | 1.0 | 0.402 | 0.147 | < 0.01 | |
| 92409 | 0.2 | < 0.1 | 0.5 | 0.001 | 0.21 | 20.5 | 15 | 8.7 | 1.8 | 0.313 | 0.091 | < 0.01 | < 5 |
| 92410 | 0.2 | < 0.1 | 0.4 | 0.006 | 0.05 | 4.3 | 20 | 2.7 | 0.5 | 0.268 | 0.106 | 0.04 | |
| 92411 | 0.2 | < 0.1 | 0.4 | 0.002 | 0.08 | 7.0 | 19 | 3.5 | 0.6 | 0.273 | 0.061 | 0.01 | |
| 92412 | 0.2 | 0.2 | 0.4 | 0.004 | 0.14 | 10.2 | 17 | 4.3 | 0.7 | 0.569 | 0.112 | < 0.01 | < 5 |
| 92413 | 0.3 | 0.9 | 0.7 | 0.004 | 0.23 | 14.3 | 19 | 14.3 | 2.0 | 0.793 | 0.263 | 0.01 | |
| 92414 | 0.3 | 4.9 | 0.9 | < 0.001 | 0.20 | 11.3 | 20 | 8.8 | 2.6 | 0.644 | 0.294 | 0.03 | |
| 92415 | 0.2 | 0.5 | 0.6 | 0.003 | 0.16 | 13.5 | 19 | 15.5 | 0.9 | 0.777 | 0.161 | 0.01 | < 5 |
| 92416 | 0.3 | 0.3 | 0.5 | 0.006 | 0.20 | 13.4 | 20 | 10.6 | 1.1 | 0.623 | 0.159 | 0.01 | |
| 92417 | 0.1 | 2.1 | 1.1 | < 0.001 | 0.13 | 8.1 | 20 | 0.9 | 0.4 | 0.932 | 0.059 | 0.01 | |
| 92418 | 0.7 | < 0.1 | 1.6 | < 0.001 | 0.18 | 28.7 | 30 | 16.0 | 6.1 | 0.902 | 0.288 | < 0.01 | < 5 |
| 92419 | 1.0 | < 0.1 | 1.2 | 0.002 | 0.31 | 54.0 | 22 | 48.8 | 9.1 | 0.0825 | 1.17 | 0.03 | |
| 92420 | 0.4 | 1.0 | 1.0 | 0.001 | 0.32 | 29.4 | 24 | 28.0 | 3.5 | 0.722 | 0.376 | 0.04 | |
| 92421 | 0.4 | 1.5 | 1.1 | 0.001 | 0.31 | 22.2 | 21 | 21.6 | 2.3 | 0.691 | 0.324 | 0.03 | < 5 |
| 92422 | 0.4 | 0.4 | 0.8 | < 0.001 | 0.34 | 25.3 | 24 | 20.6 | 2.1 | 0.778 | 0.284 | 0.01 | |
| 92423 | 0.4 | 0.7 | 1.0 | < 0.001 | 0.38 | 25.5 | 30 | 23.1 | 1.9 | 0.772 | 0.307 | 0.01 | |
| 92424 | 0.4 | 1.8 | 1.7 | < 0.001 | 0.37 | 23.3 | 26 | 19.4 | 1.6 | 0.799 | 0.233 | 0.03 | < 5 |
| 92425 | 0.4 | 1.9 | 1.5 | 0.003 | 0.34 | 22.6 | 26 | 28.2 | 2.7 | 0.896 | 0.161 | 0.03 | |
| 92426 | 0.3 | 0.4 | 1.1 | < 0.001 | 0.40 | 22.1 | 21 | 26.6 | 1.7 | 0.497 | 0.146 | 0.04 | |
| 92427 | 0.2 | 1.9 | 3.7 | 0.004 | 0.32 | 18.0 | 14 | 3.7 | 1.1 | 0.641 | 0.165 | < 0.01 | < 5 |
| 92428 | 0.4 | 1.3 | 3.1 | 0.003 | 0.38 | 22.4 | 18 | 22.9 | 2.6 | 0.593 | 0.250 | 0.02 | |
| 92429 | 0.5 | 1.5 | 1.6 | 0.003 | 0.37 | 32.2 | 23 | 40.6 | 11.0 | 0.268 | 0.366 | 0.04 | |
| 92430 | 0.3 | 1.3 | 1.3 | 0.001 | 0.39 | 22.7 | 16 | 19.9 | 3.3 | 0.394 | 0.199 | 0.05 | < 5 |
| 92431 | 0.5 | 0.5 | 8.2 | 0.003 | 0.64 | 28.6 | 28 | 56.3 | 1.9 | 0.512 | 0.314 | 0.06 | |
| 92432 | 0.2 | < 0.1 | 0.3 | 0.004 | 0.29 | 18.6 | 13 | 26.1 | 1.6 | 0.349 | 0.090 | 0.01 | |
| 92433 | 0.4 | 0.1 | 0.7 | 0.004 | 0.32 | 19.6 | 25 | 20.3 | 1.1 | 0.559 | 0.177 | 0.02 | < 5 |
| 92434 | 0.3 | 0.1 | 0.4 | 0.002 | 0.23 | 14.0 | 26 | 17.2 | 1.0 | 0.631 | 0.160 | 0.02 | |
| 92435 | 0.4 | 0.5 | 0.6 | < 0.001 | 0.29 | 20.3 | 26 | 22.4 | 1.3 | 0.687 | 0.114 | 0.03 | |
| 92436 | 0.2 | 0.3 | 0.3 | < 0.001 | 0.24 | 18.8 | 17 | 29.9 | 2.5 | 0.318 | 0.156 | 0.02 | < 5 |
| 92437 | 0.4 | 2.8 | 3.6 | 0.001 | 0.27 | 27.4 | 28 | 20.5 | 1.3 | 0.874 | 0.230 | 0.02 | |
| 92438 | 0.3 | 0.5 | 0.9 | 0.003 | 0.34 | 22.5 | 22 | 24.6 | 1.5 | 0.653 | 0.171 | 0.01 | |
| 92439 | 0.3 | 0.9 | 1.5 | 0.003 | 0.31 | 22.5 | 20 | 19.6 | 2.0 | 0.775 | 0.193 | 0.02 | < 5 |
| 92440 | 0.4 | < 0.1 | 0.4 | 0.003 | 0.27 | 32.5 | 25 | 39.9 | 2.4 | 0.349 | 0.142 | 0.03 | |
| 92441 | 0.2 | < 0.1 | 0.6 | 0.005 | 0.24 | 15.3 | 17 | 17.8 | 2.1 | 0.305 | 0.205 | 0.03 | |
| 92442 | 0.6 | 1.1 | 2.3 | 0.003 | 0.34 | 38.2 | 23 | 48.7 | 6.4 | 0.555 | 0.328 | 0.03 | < 5 |
| 92443 | 0.2 | < 0.1 | 0.5 | 0.008 | 0.24 | 14.7 | 18 | 16.9 | 1.6 | 0.322 | 0.088 | 0.02 | |
| 92444 | 0.3 | 0.1 | 0.7 | 0.003 | 0.31 | 15.1 | 23 | 20.4 | 0.7 | 0.532 | 0.115 | 0.01 | |
| 92445 | 0.1 | 1.9 | 0.7 | 0.002 | 0.17 | 7.6 | 37 | 1.5 | 0.9 | 1.66 | 0.096 | 0.02 | < 5 |
| 92446 | 0.2 | 0.6 | 1.0 | 0.003 | 0.26 | 13.1 | 31 | 6.2 | 0.6 | 1.30 | 0.120 | 0.02 | |
| 92447 | 0.2 | < 0.1 | 0.4 | 0.002 | 0.20 | 13.2 | 15 | 15.7 | 0.9 | 0.312 | 0.069 | < 0.01 | |
| 92448 | 0.3 | < 0.1 | 0.4 | 0.004 | 0.22 | 23.2 | 19 | 22.2 | 1.4 | 0.283 | 0.118 | 0.01 | < 5 |
| 92449 | 0.2 | < 0.1 | 0.4 | < 0.001 | 0.16 | 14.3 | 17 | 15.4 | 0.5 | 0.279 | 0.053 | < 0.01 | |
| 92450 | 0.2 | < 0.1 | 0.3 | 0.002 | 0.22 | 14.4 | 16 | 14.1 | 1.1 | 0.248 | 0.090 | 0.03 | |
| 92451 | 0.2 | 0.2 | 0.8 | 0.002 | 0.12 | 12.2 | 26 | 8.5 | 0.7 | 0.290 | 0.095 | 0.02 | < 5 |
| 92452 | 0.5 | < 0.1 | 2.0 | < 0.001 | 0.26 | 35.8 | 30 | 45.6 | 4.2 | 0.660 | 0.290 | < 0.01 | |
| 92453 | 0.3 | < 0.1 | 1.0 | 0.002 | 0.36 | 17.5 | 20 | 17.3 | 1.1 | 0.615 | 0.138 | 0.01 | |

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| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92454 | 0.2 | 0.8 | 1.4 | 0.004 | 0.36 | 15.5 | 15 | 13.9 | 1.1 | 0.602 | 0.093 | 0.01 | < 5 |
| 92455 | < 0.1 | 0.1 | 0.2 | 0.004 | 0.06 | 1.8 | 2 | 1.2 | 10.7 | 0.0424 | 0.080 | 0.19 | |
| 92456 | 0.3 | 2.2 | 3.7 | 0.004 | 0.28 | 22.7 | 30 | 16.0 | 1.7 | 0.875 | 0.140 | 0.03 | |
| 92457 | 0.3 | 0.4 | 1.0 | 0.002 | 0.25 | 16.7 | 19 | 20.5 | 2.1 | 0.541 | 0.221 | 0.03 | < 5 |
| 92458 | 0.3 | 3.9 | 2.6 | 0.002 | 0.27 | 20.4 | 22 | 21.3 | 2.4 | 0.681 | 0.188 | 0.03 | |
| 92459 | 0.3 | 0.2 | 0.6 | < 0.001 | 0.27 | 19.9 | 19 | 21.4 | 2.0 | 0.403 | 0.177 | 0.03 | |
| 92460 | 0.2 | 0.2 | 0.6 | 0.004 | 0.28 | 17.9 | 14 | 22.3 | 1.3 | 0.319 | 0.068 | 0.02 | < 5 |
| 92461 | 0.8 | < 0.1 | 1.1 | 0.005 | 0.25 | 19.8 | 11 | 43.4 | 5.0 | 0.0291 | 0.998 | 0.06 | |
| 92462 | 1.0 | 1.5 | 2.7 | 0.003 | 0.27 | 29.1 | 24 | 119 | 9.2 | 0.703 | 0.263 | 0.03 | |
| 92463 | 0.1 | < 0.1 | 0.2 | 0.003 | 0.43 | 15.7 | 8 | 11.1 | 1.2 | 0.142 | 0.034 | < 0.01 | < 5 |
| 92464 | 0.3 | 1.5 | 2.5 | 0.001 | 0.40 | 17.9 | 22 | 18.1 | 1.0 | 0.696 | 0.155 | 0.01 | |
| 92465 | 0.5 | 0.5 | 2.2 | 0.001 | 0.27 | 25.0 | 23 | 30.3 | 2.8 | 0.660 | 0.244 | 0.01 | |
| 92466 | 0.1 | 2.2 | 3.3 | 0.003 | 0.27 | 17.5 | 20 | 3.0 | 0.8 | 0.776 | 0.123 | < 0.01 | < 5 |
| 92467 | 0.2 | 1.8 | 2.2 | 0.003 | 0.34 | 16.2 | 17 | 8.7 | 1.2 | 0.712 | 0.161 | < 0.01 | |
| 92468 | 0.2 | 0.5 | 0.6 | 0.005 | 0.23 | 17.0 | 23 | 11.0 | 1.7 | 0.641 | 0.089 | 0.03 | |
| 92469 | 0.7 | < 0.1 | 4.5 | 0.005 | 0.41 | 136 | 36 | 94.4 | 4.7 | 0.578 | 0.504 | 0.03 | < 5 |
| 92470 | 0.8 | 2.2 | 1.6 | 0.003 | 0.40 | 45.9 | 25 | 49.9 | 8.7 | 0.871 | 0.374 | 0.05 | |
| 92471 | 0.3 | 2.6 | 1.7 | 0.001 | 0.24 | 15.0 | 19 | 19.4 | 3.3 | 0.884 | 0.287 | 0.05 | |
| 92472 | 0.3 | < 0.1 | 0.6 | 0.003 | 0.08 | 19.7 | 32 | 17.7 | 3.9 | 0.219 | 0.120 | 0.01 | < 5 |
| 92473 | 0.3 | 0.1 | 0.6 | < 0.001 | 0.31 | 23.1 | 25 | 17.7 | 1.0 | 0.654 | 0.145 | 0.02 | |
| 92474 | 0.4 | < 0.1 | 1.0 | 0.005 | 0.23 | 45.2 | 35 | 48.0 | 3.4 | 0.264 | 0.311 | < 0.01 | |
| 92475 | 0.2 | 2.1 | 4.3 | 0.004 | 0.28 | 21.5 | 34 | 5.1 | 0.8 | 1.00 | 0.139 | 0.02 | < 5 |
| 92008 | 2.3 | 0.2 | 7.5 | 0.004 | 1.19 | 443 | 51 | > 200 | 122 | 0.0142 | 5.03 | 0.03 | |
| 92009 | 2.1 | 1.0 | 8.1 | 0.001 | 0.39 | 296 | 21 | > 200 | 129 | 0.0071 | 6.81 | 0.06 | |
| 92501 | 0.2 | < 0.1 | 0.3 | 0.003 | 0.26 | 13.6 | 16 | 22.4 | 1.0 | 0.293 | 0.087 | 0.01 | < 5 |
| 92502 | 0.5 | < 0.1 | 0.7 | 0.003 | 0.22 | 18.8 | 25 | 30.3 | 1.6 | 0.308 | 0.209 | 0.02 | |
| 92503 | 0.3 | < 0.1 | 0.4 | 0.002 | 0.24 | 13.9 | 25 | 16.4 | 1.3 | 0.273 | 0.096 | 0.03 | |
| 92504 | 0.3 | 0.1 | 0.5 | 0.004 | 0.30 | 17.7 | 19 | 15.8 | 1.2 | 0.404 | 0.119 | 0.02 | < 5 |
| 92505 | 0.3 | < 0.1 | 0.4 | 0.002 | 0.39 | 15.9 | 22 | 22.9 | 3.2 | 0.364 | 0.186 | 0.06 | |
| 92506 | 0.4 | < 0.1 | 0.5 | 0.004 | 0.32 | 17.9 | 28 | 27.2 | 1.7 | 0.288 | 0.117 | 0.03 | |
| 92507 | 0.2 | 1.8 | 2.9 | 0.002 | 0.29 | 13.2 | 26 | 3.3 | 1.1 | 0.924 | 0.131 | 0.01 | < 5 |
| 92508 | 0.2 | 0.7 | 1.3 | < 0.001 | 0.31 | 17.5 | 24 | 10.4 | 1.2 | 1.02 | 0.164 | 0.02 | |
| 92509 | 0.2 | 0.5 | 0.4 | 0.005 | 0.44 | 17.8 | 10 | 6.6 | 1.3 | 0.283 | 0.085 | < 0.01 | |
| 92510 | 0.2 | 0.5 | 0.7 | 0.001 | 0.49 | 16.9 | 12 | 12.3 | 1.8 | 0.385 | 0.126 | < 0.01 | < 5 |
| 92511 | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.45 | 17.4 | 9 | 10.0 | 1.6 | 0.326 | 0.040 | < 0.01 | |
| 92512 | 0.2 | 1.0 | 0.9 | 0.007 | 0.42 | 16.5 | 11 | 12.1 | 1.8 | 0.350 | 0.128 | < 0.01 | |
| 92513 | 0.1 | 0.4 | 0.6 | 0.003 | 0.42 | 17.8 | 9 | 8.0 | 1.1 | 0.295 | 0.064 | 0.01 | < 5 |
| 92514 | 0.1 | 0.4 | 0.5 | 0.004 | 0.46 | 17.5 | 9 | 10.8 | 1.2 | 0.263 | 0.064 | 0.01 | |
| 92515 | 0.1 | 0.2 | 0.2 | 0.002 | 0.36 | 14.8 | 9 | 7.6 | 1.1 | 0.257 | 0.058 | 0.01 | |
| 92516 | 0.2 | 0.6 | 0.3 | 0.002 | 0.43 | 15.5 | 9 | 13.4 | 1.9 | 0.326 | 0.074 | 0.02 | < 5 |
| 92517 | < 0.1 | 0.7 | 0.6 | 0.002 | 0.36 | 14.9 | 8 | 1.7 | 0.7 | 0.268 | 0.073 | < 0.01 | |
| 92518 | 0.1 | 0.7 | 0.5 | 0.003 | 0.45 | 17.6 | 9 | 8.0 | 1.1 | 0.287 | 0.073 | < 0.01 | |
| 92519 | 0.3 | 0.4 | 1.2 | 0.002 | 0.40 | 21.3 | 12 | 16.1 | 1.6 | 0.299 | 0.163 | 0.03 | < 5 |
| 92520 | 0.2 | 3.4 | 1.9 | 0.003 | 0.34 | 22.1 | 14 | 39.7 | 2.8 | 0.427 | 0.165 | 0.04 | |
| 92521 | 0.2 | 0.5 | 1.0 | < 0.001 | 0.44 | 22.9 | 12 | 15.7 | 1.3 | 0.328 | 0.062 | 0.01 | |
| 92522 | 0.2 | 0.6 | 0.4 | < 0.001 | 0.47 | 17.4 | 9 | 9.1 | 1.2 | 0.298 | 0.062 | 0.02 | < 5 |
| 92523 | 0.2 | 0.4 | 0.5 | 0.002 | 0.47 | 15.8 | 11 | 10.6 | 1.5 | 0.363 | 0.120 | < 0.01 | |
| 92524 | 0.5 | < 0.1 | 2.1 | < 0.001 | 1.41 | 9.9 | 10 | 14.4 | 6.7 | 0.120 | 1.38 | < 0.01 | |
| 92525 | 0.4 | 0.6 | 1.8 | < 0.001 | 0.63 | 19.2 | 16 | 36.4 | 3.0 | 0.220 | 0.578 | < 0.01 | < 5 |
| 92526 | 0.3 | 1.9 | 1.5 | 0.004 | 0.55 | 23.6 | 15 | 19.8 | 3.0 | 0.413 | 0.267 | 0.01 | |
| 92527 | 0.3 | 1.3 | 1.2 | 0.003 | 0.49 | 21.3 | 13 | 17.5 | 6.6 | 0.374 | 0.255 | 0.02 | |
| 92528 | 0.4 | 1.8 | 2.1 | < 0.001 | 0.44 | 37.0 | 23 | 14.1 | 32.9 | 0.296 | 0.503 | 0.12 | 5 |

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| Analyte Symbol | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S | Au |
|------------------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 92529 | 0.4 | < 0.1 | 1.1 | 0.004 | 0.41 | 28.6 | 17 | 27.4 | 20.1 | 0.166 | 0.435 | 0.03 | |
| 92530 | 0.4 | 0.3 | 0.9 | 0.002 | 0.41 | 25.2 | 12 | 33.1 | 41.9 | 0.124 | 0.365 | 0.04 | |
| 92531 | 0.3 | 2.1 | 1.4 | 0.002 | 0.47 | 27.0 | 14 | 43.0 | 12.9 | 0.212 | 0.404 | 0.02 | 117 |
| 92532 | 0.2 | 0.5 | 0.8 | 0.003 | 0.44 | 19.7 | 11 | 18.7 | 3.9 | 0.306 | 0.206 | 0.05 | |
| 92533 | 0.5 | < 0.1 | 1.4 | 0.005 | 0.61 | 39.3 | 13 | 55.5 | 8.1 | 0.0742 | 0.704 | 0.03 | |
| 92534 | 0.4 | < 0.1 | 1.3 | 0.004 | 0.49 | 36.9 | 14 | 45.7 | 5.5 | 0.140 | 0.425 | 0.03 | < 5 |
| 92535 | 0.4 | < 0.1 | 1.5 | 0.002 | 0.40 | 29.1 | 13 | 56.6 | 6.7 | 0.0441 | 0.775 | 0.03 | |
| 92536 | 0.5 | 13.7 | 3.2 | 0.001 | 0.47 | 33.9 | 11 | 14.8 | 11.0 | 0.257 | 0.984 | 0.12 | |
| 92537 | 0.2 | 0.9 | 1.1 | < 0.001 | 0.44 | 19.1 | 9 | 11.8 | 1.6 | 0.300 | 0.292 | 0.01 | < 5 |
| 92538 | 0.5 | 0.1 | 1.4 | < 0.001 | 0.60 | 26.7 | 16 | 23.8 | 3.0 | 0.234 | 0.374 | 0.01 | |
| 92539 | 0.5 | < 0.1 | 3.0 | 0.005 | 0.51 | 64.5 | 16 | 20.4 | 23.4 | 0.0403 | 1.32 | 0.02 | |
| 92540 | 0.7 | < 0.1 | 3.7 | 0.004 | 0.49 | 29.7 | 14 | 31.8 | 39.6 | 0.0379 | 1.67 | 0.02 | 24 |
| 92541 | 0.2 | 1.1 | 1.4 | 0.004 | 0.46 | 17.6 | 10 | 11.7 | 1.9 | 0.369 | 0.179 | 0.01 | |
| 92542 | 0.2 | 0.9 | 1.1 | < 0.001 | 0.44 | 16.6 | 12 | 12.4 | 15.8 | 0.359 | 0.159 | 0.03 | |
| 92543 | 0.3 | 1.3 | 1.6 | 0.001 | 0.43 | 53.6 | 13 | 38.6 | 3.2 | 0.248 | 0.447 | 0.02 | < 5 |
| 92544 | 0.1 | 0.4 | 0.6 | 0.001 | 0.48 | 20.9 | 10 | 7.3 | 1.0 | 0.245 | 0.098 | 0.02 | |
| 92545 | 0.2 | 0.2 | 0.3 | 0.002 | 0.46 | 19.1 | 15 | 7.0 | 1.0 | 0.594 | 0.082 | 0.02 | |
| 92546 | 0.1 | 0.4 | 0.5 | 0.002 | 0.40 | 16.0 | 8 | 7.5 | 1.0 | 0.248 | 0.047 | < 0.01 | < 5 |
| 92547 | 0.1 | < 0.1 | 0.6 | 0.002 | 0.33 | 18.1 | 8 | 4.7 | 1.0 | 0.176 | 0.451 | 0.01 | |
| 92548 | 0.2 | 0.2 | 0.4 | 0.002 | 0.42 | 15.8 | 10 | 6.8 | 1.0 | 0.326 | 0.070 | < 0.01 | |
| 92549 | 0.2 | 0.6 | 0.7 | 0.005 | 0.52 | 18.9 | 11 | 9.9 | 1.3 | 0.334 | 0.079 | 0.01 | < 5 |
| 92550 | 0.2 | 0.5 | 0.7 | 0.003 | 0.47 | 20.3 | 9 | 15.1 | 1.8 | 0.309 | 0.106 | < 0.01 | |
| 92326 | 0.4 | 1.3 | 2.7 | 0.001 | 0.34 | 21.6 | 23 | 24.8 | 3.5 | 0.891 | 0.440 | 0.03 | |
| 92327 | 0.3 | 0.2 | 1.0 | 0.004 | 0.22 | 13.3 | 17 | 14.2 | 7.5 | 0.737 | 0.212 | 0.06 | < 5 |
| 92328 | 0.4 | < 0.1 | 2.4 | < 0.001 | 0.29 | 28.5 | 25 | 33.8 | 3.9 | 0.770 | 0.285 | 0.02 | |
| 92329 | 0.5 | < 0.1 | 1.5 | 0.004 | 0.24 | 13.9 | 22 | 27.1 | 3.8 | 0.355 | 0.312 | < 0.01 | |
| 92330 | 0.2 | 2.0 | 1.5 | 0.003 | 0.15 | 29.7 | 23 | 10.3 | 1.8 | 1.05 | 0.147 | 0.01 | < 5 |
| 92331 | 1.2 | 0.1 | 4.1 | 0.005 | 0.53 | 55.7 | 23 | 72.3 | 17.8 | 0.239 | 1.26 | 0.01 | |
| 92332 | 0.8 | 9.2 | 2.0 | 0.004 | 0.16 | 57.8 | 50 | 18.0 | 14.4 | 1.57 | 0.752 | 0.01 | |
| 92333 | 0.3 | 2.6 | 3.1 | 0.011 | 0.28 | 23.7 | 29 | 10.4 | 1.8 | 1.31 | 0.239 | 0.02 | < 5 |
| 92334 | 0.3 | 0.3 | 0.7 | < 0.001 | 0.26 | 20.1 | 22 | 13.2 | 2.1 | 0.929 | 0.172 | 0.02 | |
| 92335 | 0.5 | 0.2 | 1.3 | 0.003 | 0.28 | 22.5 | 28 | 43.5 | 3.2 | 0.471 | 0.204 | 0.04 | |
| 92336 | 0.2 | 0.4 | 0.5 | 0.003 | 0.43 | 24.6 | 24 | 8.2 | 1.3 | 0.762 | 0.101 | 0.01 | < 5 |
| 92337 | 0.3 | 1.0 | 1.4 | < 0.001 | 0.23 | 24.5 | 24 | 13.1 | 1.4 | 1.08 | 0.254 | 0.03 | |
| 92338 | 0.4 | 2.2 | 1.0 | 0.001 | 0.28 | 20.0 | 22 | 19.9 | 3.3 | 0.762 | 0.227 | 0.06 | |
| 92339 | 0.4 | 4.5 | 1.8 | 0.003 | 0.34 | 27.8 | 21 | 15.8 | 4.5 | 0.848 | 0.372 | 0.04 | < 5 |
| 92005 | 1.3 | 2.5 | 10.8 | 0.002 | 0.83 | 102 | 10 | 91.3 | 252 | 0.0160 | 7.29 | 0.02 | |
| 92006 | 0.5 | 4.3 | 8.3 | 0.004 | 0.58 | 1150 | 45 | > 200 | 2.9 | 0.424 | 0.720 | 0.05 | |
| 92007 | 2.0 | 38.1 | 9.8 | < 0.001 | 0.35 | 122 | 45 | > 200 | 63.4 | 0.163 | 2.74 | 0.08 | < 5 |
| 92011 | 2.3 | < 0.1 | 24.8 | 0.003 | 1.28 | 499 | 161 | > 200 | 3.3 | 0.341 | 0.798 | 0.08 | |

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Quality Control

| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|------|--|--|--|--|--|--|-----|-----|--------|--|--|------|--|--|--|------|------|-------|--|--|--|------|--|
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | 5.2 | | | | | | | 151 | 181 | | | | 297 | | | | | 61.3 | 0.53 | | | | 65.9 | |
| DNC-1a Cert | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | 57.0 | 0.590 | | | | 70.0 | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | > 5000 | | | 2410 | | | | 0.69 | 80.3 | | | | | 132 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | 2247 | | | | 0.86 | 75 | | | | | 133 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 101988 Orig | 22.9 | 2.40 | 1.11 | 6.87 | 1.98 | 1.44 | < 0.1 | 59 | 70.4 | 513 | 3.38 | 4.6 | 38.0 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.95 | 12.1 | 1.08 | 0.09 | 0.6 | 52.4 | 16.8 |
| 101988 Dup | 22.5 | 2.34 | 1.09 | 6.68 | 1.86 | 1.44 | < 0.1 | 54 | 60.7 | 496 | 3.28 | 4.5 | 37.6 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.87 | 11.9 | 1.04 | 0.08 | 0.7 | 50.0 | 15.8 |
| 101993 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 101993 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 100741 Orig | 14.7 | 2.80 | 0.90 | 6.26 | 1.63 | 1.21 | < 0.1 | 35 | 71.2 | 445 | 3.79 | 2.9 | 38.8 | 1.2 | 2.1 | 0.5 | < 0.05 | 1.32 | 14.0 | 1.19 | 0.05 | < 0.1 | 47.6 | 15.2 |
| 100741 Dup | 15.9 | 2.98 | 0.94 | 6.68 | 1.73 | 1.29 | < 0.1 | 34 | 73.2 | 491 | 3.99 | 2.6 | 42.2 | 1.3 | 2.1 | 0.5 | < 0.05 | 1.29 | 14.8 | 1.18 | 0.04 | 0.6 | 48.2 | 16.5 |
| 91737 Orig | 16.1 | 2.82 | 0.99 | 5.95 | 1.36 | 1.08 | < 0.1 | 19 | 68.1 | 520 | 4.33 | 1.2 | 45.6 | 1.5 | 2.6 | 0.5 | < 0.05 | 1.40 | 18.2 | 1.47 | 0.04 | 0.4 | 51.7 | 14.4 |
| 91737 Dup | 18.0 | 2.99 | 0.91 | 4.47 | 1.24 | 1.16 | < 0.1 | 93 | 102 | 570 | 4.54 | 4.8 | 52.3 | 1.2 | 2.7 | 0.4 | < 0.05 | 1.30 | 20.1 | 0.93 | 0.03 | 0.7 | 60.1 | 15.6 |
| 91815 Orig | 36.0 | 1.88 | 2.58 | 5.98 | 0.97 | 1.61 | 0.3 | 109 | 319 | 1010 | 9.13 | < 0.1 | 185 | 3.8 | 5.3 | 1.6 | < 0.05 | 2.64 | 40.9 | 5.14 | 0.09 | 2.1 | 142 | 20.5 |
| 91815 Dup | 33.6 | 1.77 | 2.53 | 5.88 | 0.90 | 1.45 | 0.2 | 115 | 310 | 982 | 8.90 | < 0.1 | 176 | 3.8 | 4.9 | 1.6 | < 0.05 | 2.63 | 39.5 | 5.51 | 0.11 | 1.5 | 133 | 18.9 |
| 92241 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92241 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92246 Orig | 27.2 | > 3.00 | 1.76 | 7.10 | 0.90 | 1.36 | < 0.1 | 41 | 223 | 519 | 6.00 | 1.6 | 137 | 2.5 | 3.4 | 1.0 | < 0.05 | 1.86 | 30.2 | 2.36 | 0.07 | 0.4 | 85.6 | 18.7 |
| 92246 Dup | 28.6 | > 3.00 | 1.79 | 7.08 | 0.94 | 1.39 | < 0.1 | 47 | 257 | 520 | 6.12 | 1.8 | 140 | 2.5 | 4.1 | 1.0 | < 0.05 | 1.86 | 31.1 | 2.18 | 0.06 | 0.9 | 96.7 | 18.9 |
| 92260 Orig | 59.8 | 0.06 | 2.64 | 2.69 | 0.09 | 2.39 | 0.4 | 104 | 335 | 2610 | 12.8 | < 0.1 | 223 | 4.4 | 5.3 | 1.8 | < 0.05 | 1.22 | 66.9 | 6.65 | 0.10 | 1.7 | 128 | 12.9 |
| 92260 Dup | 60.7 | 0.05 | 2.62 | 2.60 | 0.08 | 2.11 | 0.4 | 216 | 381 | 2600 | 11.6 | 5.1 | 221 | 4.0 | 4.9 | 1.6 | < 0.05 | 1.18 | 63.1 | 6.02 | 0.09 | 1.7 | 121 | 12.1 |
| 92205 Orig | 37.5 | 2.16 | 1.90 | 6.05 | 1.38 | 1.39 | 0.2 | 100 | 178 | 1040 | 6.35 | < 0.1 | 133 | 3.4 | 8.4 | 1.4 | < 0.05 | 2.23 | 32.8 | 4.01 | 0.20 | 1.3 | 102 | 17.4 |
| 92205 Dup | 40.3 | 2.32 | 2.06 | 6.51 | 1.49 | 1.51 | 0.2 | 66 | 203 | 1110 | 6.83 | 0.4 | 140 | 3.9 | 6.7 | 1.6 | < 0.05 | 2.32 | 35.5 | 4.46 | 0.21 | 0.9 | 113 | 19.8 |
| 92210 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92210 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92231 Orig | 13.6 | 2.92 | 0.82 | 6.54 | 0.86 | 2.00 | 0.2 | 17 | 81.3 | 319 | 4.30 | 0.7 | 32.3 | 2.1 | 4.3 | 0.8 | < 0.05 | 1.15 | 14.3 | 2.10 | 0.11 | 0.6 | 48.6 | 19.2 |
| 92231 Dup | 12.8 | 2.91 | 0.81 | 6.45 | 0.82 | 1.88 | 0.2 | 15 | 65.3 | 303 | 4.09 | 0.5 | 30.2 | 2.0 | 3.9 | 0.8 | < 0.05 | 1.08 | 13.5 | 2.03 | 0.11 | 0.7 | 47.9 | 19.8 |
| 92273 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92273 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 100728 Orig | 28.7 | > 3.00 | 2.57 | 6.58 | 1.46 | 1.03 | < 0.1 | 69 | 277 | 1620 | 9.53 | 0.8 | 182 | 2.9 | 11.1 | 1.2 | < 0.05 | 3.11 | 54.6 | 3.50 | 0.04 | 1.2 | 125 | 21.9 |
| 100728 Dup | 26.1 | > 3.00 | 2.39 | 6.36 | 1.51 | 0.98 | < 0.1 | 60 | 256 | 1490 | 9.48 | 0.8 | 168 | 2.7 | 7.8 | 1.1 | < 0.05 | 3.05 | 50.9 | 3.52 | 0.05 | 0.2 | 103 | 18.8 |
| 91933 Orig | 25.5 | 2.47 | 1.28 | 6.55 | 1.29 | 1.55 | < 0.1 | 90 | 108 | 1410 | 5.24 | < 0.1 | 60.0 | 3.6 | 3.4 | 1.5 | < 0.05 | 1.93 | 24.6 | 5.07 | 0.16 | 1.1 | 63.2 | 17.0 |
| 91933 Dup | 26.0 | 2.43 | 1.27 | 6.53 | 1.29 | 1.51 | < 0.1 | 90 | 118 | 1500 | 5.27 | 3.0 | 60.0 | 3.6 | 3.5 | 1.5 | 0.06 | 1.90 | 24.7 | 5.11 | 0.14 | 1.1 | 62.9 | 17.0 |
| 91937 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91937 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91947 Orig | 18.8 | > 3.00 | 1.04 | 5.82 | 1.24 | 0.80 | < 0.1 | 64 | 147 | 426 | 6.32 | 2.5 | 69.2 | 0.9 | 3.0 | 0.3 | < 0.05 | 1.79 | 21.4 | 1.15 | 0.03 | < 0.1 | 60.3 | 17.8 |
| 91947 Dup | 17.9 | > 3.00 | 1.00 | 5.98 | 1.18 | 0.76 | < 0.1 | 63 | 132 | 393 | 6.03 | 2.4 | 66.7 | 0.9 | 2.9 | 0.3 | < 0.05 | 1.76 | 20.3 | 1.24 | 0.03 | 0.3 | 57.6 | 16.4 |
| 91968 Orig | 28.5 | > 3.00 | 2.09 | 6.59 | 0.97 | 2.35 | 0.3 | 126 | 161 | 1830 | 8.25 | 0.5 | 141 | 4.0 | 4.8 | 1.6 | < 0.05 | 1.50 | 51.5 | 5.07 | 0.12 | 0.4 | 167 | 20.3 |
| 91968 Dup | 28.6 | > 3.00 | 2.05 | 6.53 | 0.95 | 2.19 | 0.2 | 84 | 146 | 1850 | 8.19 | < 0.1 | 142 | 4.0 | 4.3 | 1.6 | < 0.05 | 1.51 | 51.0 | 4.81 | 0.15 | 0.7 | 167 | 19.0 |
| 91982 Orig | 26.0 | > 3.00 | 1.65 | 6.77 | 1.51 | 1.06 | < 0.1 | 49 | 122 | 711 | 6.23 | 1.7 | 106 | 2.2 | 5.7 | 0.8 | < 0.05 | 3.00 | 35.0 | 2.35 | 0.06 | < 0.1 | 105 | 22.9 |
| 91982 Dup | 25.4 | > 3.00 | 1.60 | 6.57 | 1.50 | 1.05 | < 0.1 | 48 | 118 | 702 | 6.13 | 1.9 | 102 | 2.2 | 5.0 | 0.9 | < 0.05 | 3.11 | 34.3 | 2.44 | 0.05 | < 0.1 | 103 | 20.6 |
| 91853 Orig | 24.2 | 2.36 | 1.84 | 5.37 | 1.27 | 4.39 | 0.2 | 127 | 105 | 1020 | 5.36 | 1.1 | 77.2 | 3.7 | 4.9 | 1.6 | < 0.05 | 1.49 | 30.5 | 4.35 | 0.11 | 0.8 | 119 | 17.5 |
| 91853 Dup | 26.4 | 2.49 | 1.92 | 5.56 | 1.34 | 4.70 | 0.3 | 146 | 116 | 1080 | 5.63 | 4.8 | 82.0 | 4.1 | 5.2 | 1.7 | < 0.05 | 1.51 | 32.6 | 4.47 | 0.10 | 0.6 | 125 | 18.7 |
| 91862 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91862 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91879 Orig | 19.3 | > 3.00 | 2.07 | 6.56 | 1.33 | 1.31 | 0.2 | 90 | 196 | 1920 | 11.4 | 0.1 | 118 | 4.2 | 4.1 | 1.7 | < 0.05 | 1.49 | 49.8 | 5.60 | 0.03 | 0.9 | 92.2 | 19.0 |
| 91879 Dup | 17.7 | > 3.00 | 1.95 | 6.12 | 1.24 | 1.23 | 0.2 | 88 | 196 | 1840 | 11.1 | 1.6 | 111 | 4.1 | 4.2 | 1.6 | < 0.05 | 1.43 | 47.2 | 5.20 | 0.03 | 0.9 | 85.6 | 17.8 |
| 91892 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91892 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91893 Orig | 23.7 | 1.41 | 1.66 | 5.01 | 1.64 | 0.66 | 0.1 | 76 | 275 | 660 | 6.39 | 0.3 | 89.7 | 3.2 | 4.4 | 1.2 | < 0.05 | 1.26 | 37.2 | 3.13 | 0.09 | 0.6 | 61.8 | 15.2 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91893 Dup | 25.5 | 1.44 | 1.80 | 5.33 | 1.76 | 0.70 | 0.2 | 73 | 304 | 729 | 6.76 | 2.4 | 99.5 | 3.3 | 4.9 | 1.2 | < 0.05 | 1.36 | 40.6 | 3.24 | 0.10 | 1.3 | 66.7 | 16.8 |
| 91914 Orig | 25.1 | 1.89 | 1.09 | 3.65 | 0.61 | 1.57 | 0.4 | 180 | 204 | 973 | 7.48 | 4.4 | 83.0 | 1.9 | 3.3 | 0.7 | < 0.05 | 0.98 | 28.5 | 1.70 | 0.08 | 0.3 | 80.9 | 17.3 |
| 91914 Dup | 27.0 | 1.96 | 1.26 | 5.70 | 0.71 | 1.70 | 0.4 | 75 | 179 | 1020 | 7.94 | 0.4 | 85.4 | 2.4 | 3.9 | 1.0 | < 0.05 | 1.37 | 29.6 | 2.72 | 0.08 | 0.4 | 93.0 | 17.9 |
| 92580 Orig | 19.1 | 1.92 | 1.15 | 5.97 | 1.69 | 1.64 | 0.2 | 79 | 57.1 | 954 | 3.89 | < 0.1 | 35.8 | 1.8 | 1.8 | 0.7 | < 0.05 | 1.70 | 13.6 | 2.03 | 0.04 | 0.5 | 62.4 | 15.8 |
| 92580 Dup | 18.8 | 1.92 | 1.14 | 6.05 | 1.71 | 1.68 | 0.3 | 80 | 67.5 | 962 | 3.96 | 0.8 | 36.4 | 1.8 | 1.8 | 0.7 | < 0.05 | 1.74 | 13.5 | 2.03 | 0.03 | 0.7 | 59.9 | 16.0 |
| 92589 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92589 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92601 Orig | 19.7 | 1.38 | 1.73 | 4.56 | 1.08 | 3.43 | 0.3 | 115 | 28.6 | 1560 | 4.72 | < 0.1 | 28.9 | 3.6 | 4.3 | 1.5 | < 0.05 | 1.51 | 16.7 | 6.31 | 0.10 | 0.9 | 94.1 | 12.0 |
| 92601 Dup | 19.5 | 1.40 | 1.76 | 4.60 | 1.14 | 3.36 | 0.3 | 113 | 24.6 | 1570 | 4.76 | < 0.1 | 29.0 | 3.7 | 4.9 | 1.5 | < 0.05 | 1.48 | 16.2 | 6.42 | 0.08 | 0.7 | 124 | 12.2 |
| 92615 Orig | 23.4 | 1.83 | 1.34 | 5.61 | 1.48 | 2.55 | 0.2 | 100 | 49.9 | 1670 | 4.85 | < 0.1 | 45.8 | 4.1 | 4.1 | 1.7 | < 0.05 | 1.38 | 15.0 | 8.79 | 0.52 | 0.6 | 119 | 13.6 |
| 92615 Dup | 22.0 | 1.77 | 1.25 | 5.34 | 1.43 | 2.42 | 0.2 | 93 | 45.6 | 1420 | 4.53 | < 0.1 | 42.5 | 4.1 | 4.3 | 1.7 | 0.40 | 1.28 | 13.8 | 8.44 | 0.43 | 1.0 | 110 | 12.6 |
| 92619 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92619 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92636 Orig | 19.5 | 2.13 | 1.06 | 6.58 | 1.85 | 1.41 | < 0.1 | 72 | 68.0 | 616 | 3.99 | 0.7 | 35.3 | 1.5 | 1.7 | 0.6 | < 0.05 | 1.37 | 12.7 | 1.56 | 0.04 | 0.5 | 46.2 | 15.4 |
| 92636 Dup | 18.0 | 1.99 | 0.91 | 4.26 | 1.67 | 1.04 | 0.1 | 67 | 72.4 | 570 | 3.56 | 4.5 | 33.3 | 1.1 | 1.7 | 0.4 | < 0.05 | 1.14 | 12.2 | 0.96 | 0.02 | 0.1 | 43.8 | 14.2 |
| 92649 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92649 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92662 Orig | 22.7 | 1.81 | 1.49 | 5.87 | 1.56 | 2.16 | 0.5 | 103 | 66.1 | 1770 | 6.20 | 0.5 | 72.7 | 3.6 | 3.1 | 1.6 | < 0.05 | 2.60 | 26.9 | 4.61 | 0.06 | 0.9 | 122 | 16.0 |
| 92662 Dup | 21.6 | 1.69 | 1.40 | 5.57 | 1.41 | 2.10 | 0.5 | 97 | 64.2 | 1670 | 5.85 | 0.3 | 69.1 | 3.6 | 2.7 | 1.6 | < 0.05 | 2.37 | 25.4 | 4.51 | 0.06 | 0.6 | 117 | 15.4 |
| 92129 Orig | 22.1 | 2.69 | 1.41 | 7.08 | 1.66 | 1.14 | 0.1 | 100 | 117 | 743 | 5.11 | 4.1 | 71.8 | 1.7 | 2.3 | 0.6 | < 0.05 | 1.80 | 22.0 | 1.55 | < 0.02 | 0.2 | 63.4 | 18.6 |
| 92129 Dup | 21.6 | 2.72 | 1.24 | 4.31 | 1.55 | 0.90 | 0.1 | 120 | 144 | 726 | 4.87 | 4.7 | 72.0 | 1.1 | 2.4 | 0.4 | < 0.05 | 1.37 | 21.7 | 0.81 | < 0.02 | 0.5 | 62.3 | 18.6 |
| 92147 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92147 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92150 Orig | 34.4 | 1.24 | 2.41 | 4.32 | 0.64 | 2.89 | 0.3 | 173 | 96.1 | 4860 | 8.31 | 0.5 | 123 | 4.4 | 3.9 | 1.8 | < 0.05 | 2.20 | 40.9 | 6.11 | 0.14 | 0.8 | 202 | 14.7 |
| 92150 Dup | 34.4 | 1.17 | 2.39 | 4.12 | 0.63 | 2.87 | 0.3 | 176 | 126 | 4910 | 8.12 | < 0.1 | 121 | 4.3 | 3.9 | 1.8 | < 0.05 | 2.16 | 40.4 | 5.90 | 0.13 | 1.4 | 196 | 14.1 |
| 92164 Orig | 19.8 | > 3.00 | 1.76 | 6.79 | 1.11 | 1.09 | < 0.1 | 90 | 98.1 | 836 | 6.00 | 2.5 | 72.3 | 1.9 | 2.1 | 0.7 | < 0.05 | 1.27 | 27.8 | 1.93 | < 0.02 | 0.6 | 73.0 | 17.7 |
| 92164 Dup | 20.7 | > 3.00 | 1.85 | 7.21 | 1.18 | 1.16 | < 0.1 | 73 | 106 | 872 | 6.34 | 2.5 | 76.3 | 2.1 | 2.2 | 0.8 | < 0.05 | 1.40 | 29.7 | 2.08 | < 0.02 | 0.2 | 77.6 | 18.5 |
| 92177 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92177 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92185 Orig | 23.1 | 2.05 | 1.18 | 6.58 | 1.71 | 1.08 | 0.1 | 77 | 84.4 | 476 | 4.80 | 3.7 | 47.8 | 1.1 | 3.6 | 0.4 | < 0.05 | 2.24 | 15.2 | 0.92 | 0.04 | 0.3 | 62.8 | 17.3 |
| 92185 Dup | 23.1 | 1.98 | 1.14 | 6.41 | 1.67 | 1.05 | 0.1 | 80 | 81.3 | 457 | 4.68 | 3.8 | 46.3 | 1.2 | 1.4 | 0.4 | < 0.05 | 2.21 | 14.8 | 0.91 | 0.03 | 0.8 | 58.4 | 17.1 |
| 92199 Orig | 17.5 | > 3.00 | 1.58 | 6.26 | 0.71 | 0.81 | < 0.1 | 111 | 121 | 706 | 6.07 | 2.9 | 74.4 | 1.3 | 2.3 | 0.5 | < 0.05 | 0.93 | 30.0 | 1.32 | < 0.02 | 0.8 | 62.1 | 18.5 |
| 92199 Dup | 18.0 | > 3.00 | 1.63 | 7.17 | 0.78 | 0.87 | < 0.1 | 90 | 111 | 703 | 6.23 | 2.8 | 74.6 | 1.6 | 2.9 | 0.6 | < 0.05 | 1.02 | 29.6 | 1.82 | 0.02 | 0.7 | 62.6 | 18.3 |
| 92379 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92379 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92392 Orig | 32.5 | 2.01 | 2.31 | 7.11 | 1.19 | 4.16 | 0.3 | 197 | 97.7 | 1540 | 8.05 | 1.6 | 91.1 | 4.5 | 5.0 | 1.8 | < 0.05 | 1.33 | 43.6 | 5.06 | 0.06 | 0.9 | 116 | 18.1 |
| 92392 Dup | 32.7 | 2.02 | 2.31 | 7.10 | 1.20 | 4.11 | 0.3 | 197 | 99.5 | 1530 | 7.93 | 2.0 | 89.7 | 4.4 | 5.5 | 1.7 | < 0.05 | 1.37 | 43.6 | 4.89 | 0.06 | 1.3 | 118 | 17.8 |
| 92418 Orig | 50.3 | 2.02 | 2.16 | 5.81 | 0.74 | 4.21 | 0.6 | 316 | 18.9 | 4160 | 13.7 | 4.1 | 81.5 | 7.0 | 5.9 | 2.7 | < 0.05 | 0.96 | 56.3 | 8.03 | 0.08 | 1.4 | 166 | 21.7 |
| 92418 Dup | 53.8 | 2.09 | 2.34 | 7.26 | 0.84 | 4.37 | 0.6 | 215 | 25.0 | 4190 | 14.0 | 1.9 | 83.1 | 8.4 | 6.7 | 3.3 | < 0.05 | 1.29 | 58.2 | 10.6 | 0.09 | 1.6 | 177 | 22.4 |
| 92424 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92424 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92432 Orig | 25.0 | > 3.00 | 1.11 | 6.66 | 1.33 | 0.77 | 0.3 | 99 | 167 | 792 | 5.72 | 3.0 | 75.3 | 1.7 | 6.6 | 0.7 | < 0.05 | 1.64 | 17.5 | 3.83 | 0.12 | < 0.1 | 76.0 | 22.9 |
| 92432 Dup | 26.5 | > 3.00 | 1.09 | 6.40 | 1.28 | 0.84 | 0.3 | 103 | 170 | 769 | 5.80 | 3.0 | 77.7 | 1.7 | 5.7 | 0.7 | < 0.05 | 1.70 | 17.9 | 3.91 | 0.12 | 0.5 | 83.4 | 21.8 |
| 92453 Orig | 40.0 | > 3.00 | 2.31 | 7.35 | 1.84 | 1.24 | 0.1 | 164 | 293 | 1190 | 6.63 | 4.0 | 186 | 2.7 | 7.1 | 1.1 | < 0.05 | 2.74 | 38.6 | 3.28 | 0.08 | 0.5 | 87.3 | 19.9 |
| 92453 Dup | 41.5 | > 3.00 | 2.39 | 7.39 | 1.84 | 1.24 | 0.1 | 148 | 281 | 1210 | 6.71 | 3.6 | 187 | 2.6 | 7.2 | 1.0 | < 0.05 | 2.66 | 39.5 | 3.29 | 0.07 | 0.5 | 93.8 | 21.0 |
| 92454 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92454 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92467 Orig | 35.8 | 2.88 | 1.80 | 5.34 | 1.33 | 1.02 | 0.2 | 152 | 221 | 877 | 5.59 | 4.8 | 109 | 1.6 | 5.1 | 0.6 | < 0.05 | 1.74 | 30.4 | 1.59 | 0.05 | 0.5 | 81.9 | 20.0 |
| 92467 Dup | 35.3 | 2.93 | 1.82 | 6.31 | 1.58 | 1.18 | 0.2 | 148 | 199 | 888 | 5.61 | 4.7 | 106 | 1.7 | 4.7 | 0.7 | < 0.05 | 1.86 | 30.1 | 1.84 | 0.05 | 0.5 | 79.7 | 19.4 |
| 92507 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92507 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92511 Orig | 13.3 | 2.33 | 0.87 | 6.52 | 2.07 | 1.25 | < 0.1 | 75 | 52.4 | 325 | 3.25 | 5.6 | 23.9 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.94 | 7.4 | 1.03 | 0.06 | 0.4 | 32.0 | 19.2 |
| 92511 Dup | 13.6 | 2.30 | 0.88 | 6.54 | 2.09 | 1.26 | < 0.1 | 77 | 57.0 | 332 | 3.27 | 5.8 | 24.2 | 1.1 | 1.4 | 0.4 | < 0.05 | 1.96 | 7.5 | 1.02 | 0.06 | 0.3 | 29.5 | 20.0 |
| 92547 Orig | 15.8 | 2.22 | 0.49 | 2.12 | 1.42 | 1.90 | 0.3 | 57 | 60.6 | 1450 | 3.25 | 4.3 | 19.3 | 1.3 | 1.6 | 0.5 | < 0.05 | 0.88 | 10.9 | 1.45 | 0.05 | < 0.1 | 38.2 | 15.3 |
| 92547 Dup | 17.0 | 2.46 | 0.59 | 3.28 | 1.39 | 2.16 | 0.3 | 59 | 57.7 | 1570 | 3.43 | 3.5 | 20.2 | 1.8 | 1.8 | 0.7 | < 0.05 | 1.01 | 11.1 | 2.11 | 0.05 | 0.1 | 42.3 | 16.5 |
| 92327 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92327 Dup | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | Ga |
| Unit Symbol | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

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Quality Control

| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|------|--|------|-----|------|--|--|--|--|-------|--|-----|------|--|--|------|--|--|--|--|------|----------|--|------|
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | 14.8 | 148 | 35 | | | | | 0.8 | | 99 | 3.4 | | | 4.4 | | | | | 98.9 | | | 1.8 |
| DNC-1a Cert | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | 5.20 | | | | | 100 | | | 2.00 |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | 53.0 | | | | | | | | | 9.2 | | | | | | | | | | | | 2330 | | |
| OREAS 13b (4-Acid) Cert | 57 | | | | | | | | | 9.0 | | | | | | | | | | | | 2300.000 | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1F Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 101988 Orig | 2.6 | 80.3 | 14.5 | 291 | 180 | 0.5 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 716 | 31.4 | 61.6 | 7.5 | 26.9 | 4.8 | 3.9 | 0.5 | 2.7 | 24.1 | 0.4 | 0.2 | 1.2 |
| 101988 Dup | 2.2 | 77.2 | 13.7 | 291 | 174 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 706 | 29.1 | 56.2 | 6.9 | 23.9 | 4.2 | 3.5 | 0.5 | 2.6 | 23.2 | 0.4 | 0.2 | 1.1 |
| 101993 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 101993 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 100741 Orig | 1.0 | 55.6 | 11.6 | 265 | 114 | 4.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 582 | 31.9 | 63.1 | 7.1 | 25.2 | 4.4 | 3.8 | 0.5 | 2.5 | 15.8 | 0.6 | 0.2 | 1.0 |
| 100741 Dup | 1.1 | 63.4 | 12.5 | 295 | 115 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 606 | 34.0 | 68.8 | 7.9 | 26.6 | 4.6 | 3.6 | 0.5 | 2.5 | 17.1 | 0.5 | 0.2 | 1.0 |
| 91737 Orig | 0.4 | 54.7 | 13.7 | 239 | 64 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 519 | 38.8 | 75.0 | 9.0 | 32.2 | 5.6 | 4.7 | 0.6 | 3.1 | 37.3 | 0.5 | 0.2 | 1.2 |
| 91737 Dup | 1.5 | 20.6 | 9.9 | 242 | 207 | 24.4 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 525 | 17.8 | 40.9 | 5.0 | 18.3 | 3.5 | 2.9 | 0.4 | 2.4 | 41.0 | 0.9 | 0.2 | 1.0 |
| 91815 Orig | 2.5 | 52.6 | 43.1 | 276 | 8 | 4.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 435 | 195 | 296 | 38.0 | 127 | 18.6 | 14.8 | 1.8 | 9.5 | 124 | 0.9 | 0.5 | 2.4 |
| 91815 Dup | 1.4 | 46.7 | 39.6 | 250 | 12 | 3.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 424 | 191 | 297 | 38.4 | 131 | 19.7 | 16.8 | 2.0 | 9.7 | 114 | 0.9 | 0.5 | 2.7 |
| 92241 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92241 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92246 Orig | 0.6 | 38.2 | 23.4 | 215 | 65 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 40.3 | 81.5 | 9.6 | 35.4 | 7.0 | 6.7 | 0.9 | 5.4 | 21.0 | 0.5 | 0.3 | 1.9 |
| 92246 Dup | 1.0 | 40.3 | 24.3 | 221 | 81 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 39.4 | 79.7 | 9.3 | 33.7 | 6.5 | 6.1 | 0.9 | 5.2 | 21.8 | 0.5 | 0.3 | 1.8 |
| 92260 Orig | 0.5 | 7.1 | 45.4 | 94.3 | 12 | 0.2 | 0.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 450 | 152 | 240 | 38.6 | 142 | 24.0 | 18.8 | 2.1 | 10.1 | 131 | 0.7 | 0.6 | 3.1 |
| 92260 Dup | 1.8 | 6.5 | 40.4 | 82.8 | 286 | 52.8 | 1.4 | < 0.1 | < 1 | 0.1 | < 0.1 | 420 | 139 | 216 | 34.2 | 128 | 21.8 | 17.3 | 1.9 | 9.3 | 122 | 1.0 | 0.5 | 2.8 |
| 92205 Orig | 1.8 | 49.4 | 31.6 | 180 | 14 | 4.3 | 0.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 543 | 116 | 235 | 25.9 | 90.3 | 15.0 | 12.9 | 1.5 | 8.0 | 42.0 | 0.6 | 0.4 | 2.4 |
| 92205 Dup | 1.0 | 52.0 | 35.0 | 195 | 29 | 0.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 571 | 127 | 260 | 28.7 | 98.8 | 16.7 | 13.8 | 1.7 | 8.9 | 46.0 | 0.7 | 0.5 | 2.5 |
| 92210 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92210 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92231 Orig | 0.4 | 36.2 | 19.1 | 263 | 40 | 0.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 519 | 60.1 | 116 | 13.6 | 47.2 | 7.9 | 5.9 | 0.8 | 4.2 | 28.5 | 0.4 | 0.3 | 1.4 |
| 92231 Dup | 0.6 | 34.1 | 18.5 | 254 | 30 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 487 | 56.5 | 110 | 13.2 | 46.3 | 7.6 | 5.7 | 0.8 | 4.0 | 28.0 | 0.4 | 0.3 | 1.4 |
| 92273 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92273 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 100728 Orig | 0.8 | 69.8 | 26.9 | 117 | 39 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 502 | 97.5 | 179 | 22.5 | 79.3 | 12.8 | 9.8 | 1.2 | 6.3 | 165 | 0.6 | 0.4 | 2.3 |
| 100728 Dup | 0.3 | 63.6 | 24.4 | 107 | 38 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 491 | 94.9 | 168 | 20.8 | 75.5 | 12.3 | 10.7 | 1.2 | 6.3 | 147 | 0.6 | 0.4 | 2.1 |
| 91933 Orig | 1.0 | 50.0 | 42.1 | 300 | 16 | 0.5 | 0.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 686 | 184 | 243 | 33.2 | 117 | 19.0 | 15.3 | 1.8 | 9.3 | 55.3 | 0.6 | 0.4 | 2.2 |
| 91933 Dup | 1.5 | 51.1 | 41.4 | 298 | 129 | 0.7 | 2.1 | < 0.1 | 1 | < 0.1 | < 0.1 | 693 | 176 | 235 | 32.2 | 115 | 18.6 | 14.9 | 1.8 | 9.2 | 55.5 | 0.7 | 0.4 | 2.2 |
| 91937 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91937 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91947 Orig | 0.5 | 38.9 | 8.3 | 154 | 114 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 415 | 36.3 | 70.1 | 8.4 | 29.2 | 4.4 | 3.1 | 0.4 | 1.8 | 23.0 | 0.4 | 0.1 | 0.7 |
| 91947 Dup | 0.3 | 41.8 | 8.8 | 159 | 111 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 429 | 38.7 | 74.4 | 8.9 | 30.4 | 4.7 | 3.3 | 0.4 | 2.0 | 22.2 | 0.4 | 0.1 | 0.8 |
| 91968 Orig | 1.3 | 48.3 | 39.9 | 286 | 55 | 4.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 805 | 110 | 207 | 27.7 | 101 | 17.5 | 13.7 | 1.7 | 9.2 | 190 | 0.7 | 0.5 | 2.8 |
| 91968 Dup | 1.3 | 47.4 | 38.5 | 268 | 6 | 3.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 811 | 107 | 194 | 26.4 | 96.0 | 16.2 | 13.6 | 1.7 | 9.2 | 182 | 0.7 | 0.5 | 2.9 |
| 91982 Orig | 0.4 | 65.4 | 20.9 | 172 | 78 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 527 | 52.5 | 102 | 13.3 | 49.8 | 8.6 | 6.6 | 0.8 | 4.7 | 116 | 0.6 | 0.3 | 1.7 |
| 91982 Dup | 0.3 | 62.5 | 20.5 | 166 | 76 | 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 533 | 57.3 | 106 | 13.6 | 49.7 | 8.5 | 7.1 | 0.9 | 4.7 | 110 | 0.6 | 0.3 | 1.7 |
| 91853 Orig | 2.2 | 56.4 | 35.7 | 399 | 155 | 33.1 | 1.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 607 | 106 | 198 | 25.5 | 90.3 | 15.4 | 13.1 | 1.7 | 9.2 | 59.8 | 0.7 | 0.5 | 2.3 |
| 91853 Dup | 2.0 | 61.8 | 39.4 | 441 | 267 | 87.7 | 1.2 | < 0.1 | 2 | < 0.1 | < 0.1 | 643 | 116 | 215 | 28.1 | 97.9 | 16.1 | 13.0 | 1.7 | 9.5 | 66.6 | 0.7 | 0.5 | 2.4 |
| 91862 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91862 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91879 Orig | 0.7 | 43.3 | 43.6 | 201 | 13 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 505 | 135 | 241 | 32.2 | 122 | 21.0 | 16.4 | 1.9 | 10.1 | 135 | 0.5 | 0.6 | 3.3 |
| 91879 Dup | 0.8 | 39.5 | 40.1 | 187 | 69 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 484 | 124 | 224 | 29.6 | 113 | 19.4 | 15.4 | 1.8 | 9.7 | 122 | 0.5 | 0.6 | 3.3 |
| 91892 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 91892 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 91893 Orig | 1.4 | 47.3 | 28.6 | 90.8 | 45 | 0.3 | 0.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 437 | 84.0 | 192 | 19.9 | 74.4 | 12.2 | 9.6 | 1.2 | 6.5 | 39.7 | 0.5 | 0.5 | 2.9 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 91893 Dup | 1.5 | 53.1 | 30.5 | 97.8 | 115 | 0.3 | 0.2 | < 0.1 | 1 | < 0.1 | < 0.1 | 470 | 84.0 | 198 | 20.5 | 76.2 | 12.6 | 10.1 | 1.2 | 6.7 | 43.3 | 0.5 | 0.5 | 3.0 |
| 91914 Orig | 1.5 | 9.0 | 15.1 | 165 | 199 | 85.8 | 0.9 | < 0.1 | 2 | < 0.1 | 0.1 | 493 | 34.7 | 70.8 | 8.9 | 34.7 | 6.2 | 5.1 | 0.7 | 3.9 | 64.1 | 1.0 | 0.3 | 1.5 |
| 91914 Dup | 1.0 | 34.9 | 23.6 | 225 | 30 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 547 | 82.9 | 148 | 16.6 | 60.1 | 9.8 | 7.9 | 1.0 | 5.4 | 68.1 | 0.4 | 0.3 | 1.9 |
| 92580 Orig | 1.2 | 82.3 | 17.6 | 313 | 7 | 17.5 | 4.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 606 | 74.8 | 147 | 15.6 | 54.6 | 8.3 | 6.4 | 0.7 | 4.0 | 16.5 | 0.4 | 0.2 | 1.3 |
| 92580 Dup | 1.5 | 81.8 | 18.0 | 312 | 35 | 26.8 | 4.9 | < 0.1 | < 1 | < 0.1 | 0.1 | 600 | 74.7 | 144 | 15.4 | 53.6 | 8.3 | 6.5 | 0.8 | 4.0 | 16.0 | 0.6 | 0.2 | 1.4 |
| 92589 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92589 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92601 Orig | 2.5 | 62.0 | 36.5 | 552 | 2 | 0.4 | 6.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 668 | 213 | 435 | 49.6 | 175 | 25.2 | 18.0 | 1.9 | 9.1 | 42.2 | 0.4 | 0.4 | 2.4 |
| 92601 Dup | 2.3 | 63.3 | 36.9 | 552 | < 1 | 0.1 | 6.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 654 | 211 | 440 | 49.6 | 177 | 25.7 | 17.8 | 1.9 | 9.4 | 41.4 | 0.4 | 0.4 | 2.4 |
| 92615 Orig | 3.4 | 64.7 | 41.0 | 461 | 12 | 19.4 | 1.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1210 | 542 | 1050 | 104 | 332 | 38.2 | 24.7 | 2.3 | 11.2 | 19.9 | 0.6 | 0.5 | 2.6 |
| 92615 Dup | 3.6 | 62.1 | 39.3 | 447 | 5 | 5.2 | 1.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 1020 | 454 | 924 | 92.8 | 304 | 35.8 | 23.8 | 2.3 | 11.1 | 19.2 | 0.6 | 0.5 | 2.6 |
| 92619 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92619 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92636 Orig | 3.1 | 78.2 | 14.9 | 318 | 63 | 20.9 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 663 | 51.1 | 103 | 11.4 | 40.0 | 6.3 | 4.8 | 0.6 | 3.2 | 18.3 | 0.1 | 0.2 | 1.1 |
| 92636 Dup | 2.7 | 50.0 | 8.9 | 256 | 176 | 45.1 | 0.6 | < 0.1 | 1 | 0.1 | < 0.1 | 621 | 24.3 | 55.6 | 6.4 | 23.1 | 4.1 | 3.1 | 0.4 | 2.2 | 17.0 | 0.6 | 0.2 | 0.9 |
| 92649 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92649 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92662 Orig | 2.4 | 86.6 | 36.5 | 327 | 24 | 17.0 | 3.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 543 | 117 | 225 | 25.4 | 91.7 | 15.6 | 14.4 | 1.8 | 9.9 | 41.5 | 0.6 | 0.4 | 2.1 |
| 92662 Dup | 1.7 | 80.7 | 36.9 | 320 | 16 | 9.5 | 3.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 510 | 108 | 210 | 24.0 | 87.4 | 15.5 | 14.3 | 1.8 | 9.8 | 39.3 | 0.5 | 0.4 | 2.0 |
| 92129 Orig | 1.7 | 75.2 | 16.0 | 242 | 180 | 4.3 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 589 | 43.4 | 87.2 | 9.9 | 35.8 | 6.4 | 5.2 | 0.6 | 3.4 | 40.6 | 0.3 | 0.2 | 1.5 |
| 92129 Dup | 2.5 | 30.4 | 8.0 | 206 | 204 | 43.4 | 3.1 | < 0.1 | 2 | 0.1 | < 0.1 | 561 | 14.5 | 35.8 | 4.3 | 16.2 | 3.2 | 2.6 | 0.4 | 2.1 | 42.1 | 1.2 | 0.2 | 1.1 |
| 92147 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92147 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92150 Orig | 1.3 | 55.0 | 42.3 | 299 | 77 | 0.3 | 3.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 907 | 215 | 404 | 43.7 | 150 | 22.5 | 18.5 | 2.1 | 11.1 | 57.5 | 0.3 | 0.5 | 2.6 |
| 92150 Dup | 1.8 | 55.1 | 40.0 | 284 | 28 | 1.7 | 4.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 917 | 203 | 379 | 41.2 | 142 | 21.4 | 17.4 | 2.0 | 10.8 | 58.4 | 0.3 | 0.5 | 2.5 |
| 92164 Orig | 1.2 | 56.8 | 17.7 | 210 | 109 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 460 | 43.1 | 82.1 | 10.2 | 37.9 | 6.7 | 5.8 | 0.7 | 4.0 | 66.6 | 0.3 | 0.3 | 1.4 |
| 92164 Dup | 0.5 | 61.9 | 18.8 | 224 | 97 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 490 | 46.9 | 89.5 | 11.3 | 42.1 | 7.3 | 6.2 | 0.8 | 4.5 | 70.6 | 0.4 | 0.3 | 1.6 |
| 92177 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92177 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92185 Orig | 2.7 | 82.1 | 10.5 | 237 | 147 | 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 573 | 26.1 | 51.8 | 5.8 | 21.0 | 3.7 | 3.1 | 0.4 | 2.2 | 38.2 | 0.3 | 0.2 | 1.0 |
| 92185 Dup | 2.7 | 81.3 | 10.5 | 234 | 150 | 0.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 562 | 26.8 | 52.3 | 5.8 | 20.9 | 3.6 | 3.0 | 0.4 | 2.2 | 36.5 | 0.2 | 0.2 | 1.0 |
| 92199 Orig | 1.1 | 11.8 | 10.7 | 152 | 141 | 3.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 334 | 29.1 | 67.9 | 7.8 | 28.9 | 4.9 | 4.0 | 0.5 | 2.7 | 40.2 | 0.4 | 0.2 | 1.0 |
| 92199 Dup | 0.9 | 31.7 | 14.8 | 166 | 125 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 360 | 47.8 | 102 | 11.2 | 41.4 | 6.8 | 5.5 | 0.6 | 3.6 | 39.4 | 0.4 | 0.2 | 1.2 |
| 92379 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92379 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92392 Orig | 1.6 | 62.3 | 44.9 | 339 | 128 | 25.0 | 1.9 | < 0.1 | 2 | < 0.1 | < 0.1 | 693 | 120 | 206 | 27.6 | 103 | 18.1 | 15.4 | 1.9 | 10.3 | 67.9 | 0.4 | 0.6 | 3.0 |
| 92392 Dup | 2.1 | 60.6 | 43.0 | 323 | 135 | 38.8 | 1.7 | < 0.1 | 3 | < 0.1 | < 0.1 | 696 | 119 | 201 | 27.2 | 101 | 17.8 | 15.0 | 1.9 | 10.1 | 67.0 | 0.4 | 0.5 | 2.9 |
| 92418 Orig | < 0.1 | 12.4 | 63.3 | 919 | 488 | 7.6 | 3.1 | 0.1 | < 1 | < 0.1 | 0.2 | 566 | 193 | 365 | 50.5 | 189 | 29.8 | 23.6 | 2.8 | 15.6 | 53.2 | 0.8 | 0.9 | 4.9 |
| 92418 Dup | < 0.1 | 41.0 | 81.6 | 965 | 287 | 20.3 | 1.5 | 0.1 | < 1 | < 0.1 | 0.1 | 604 | 316 | 555 | 71.9 | 261 | 39.8 | 30.8 | 3.6 | 19.3 | 60.5 | 0.8 | 1.0 | 5.9 |
| 92424 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92424 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92432 Orig | < 0.1 | 36.6 | 15.5 | 149 | 122 | 10.7 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 428 | 197 | 382 | 39.6 | 132 | 16.9 | 11.3 | 1.0 | 4.4 | 19.7 | 0.9 | 0.2 | 1.3 |
| 92432 Dup | < 0.1 | 34.3 | 15.9 | 154 | 125 | 12.6 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 436 | 192 | 376 | 39.3 | 132 | 17.3 | 10.9 | 1.0 | 4.5 | 21.5 | 0.9 | 0.2 | 1.4 |
| 92453 Orig | 0.5 | 74.0 | 25.9 | 215 | 160 | 40.5 | 0.7 | < 0.1 | 1 | 0.6 | 0.2 | 593 | 87.7 | 168 | 18.8 | 67.7 | 12.0 | 10.1 | 1.2 | 6.3 | 58.3 | 0.7 | 0.4 | 1.9 |
| 92453 Dup | 0.2 | 75.4 | 26.6 | 219 | 147 | 18.5 | 0.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 583 | 91.8 | 174 | 19.2 | 69.5 | 12.2 | 10.0 | 1.2 | 6.2 | 59.9 | 0.9 | 0.4 | 1.9 |
| 92454 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92454 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92467 Orig | 0.5 | 24.8 | 13.3 | 211 | 191 | 58.2 | 0.9 | < 0.1 | 2 | < 0.1 | 0.1 | 563 | 41.4 | 97.7 | 10.0 | 36.9 | 6.4 | 5.2 | 0.6 | 3.6 | 25.6 | 0.2 | 0.2 | 1.3 |
| 92467 Dup | 0.6 | 33.8 | 14.4 | 222 | 185 | 57.7 | 0.8 | < 0.1 | 2 | < 0.1 | 0.1 | 570 | 49.3 | 114 | 11.7 | 42.5 | 7.3 | 5.8 | 0.7 | 3.8 | 24.4 | 0.3 | 0.2 | 1.4 |
| 92507 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92507 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 92511 Orig | 1.7 | 83.3 | 9.3 | 284 | 209 | 6.1 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 652 | 42.0 | 84.5 | 9.1 | 31.9 | 4.8 | 3.5 | 0.4 | 2.1 | 4.7 | 0.3 | 0.2 | 0.9 |
| 92511 Dup | 1.0 | 84.5 | 9.3 | 281 | 217 | 4.6 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 637 | 41.8 | 82.6 | 8.8 | 30.6 | 4.5 | 3.3 | 0.4 | 2.0 | 4.8 | 0.3 | 0.2 | 1.0 |
| 92547 Orig | 1.0 | 19.6 | 9.0 | 339 | 171 | 123 | 2.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 521 | 19.0 | 57.9 | 7.2 | 29.4 | 5.9 | 4.7 | 0.6 | 3.2 | 5.4 | 0.5 | 0.2 | 0.9 |
| 92547 Dup | 1.3 | 22.5 | 13.0 | 408 | 201 | 15.7 | 2.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 577 | 23.6 | 75.6 | 9.5 | 39.6 | 8.2 | 6.7 | 0.9 | 4.5 | 6.2 | 0.4 | 0.2 | 1.2 |
| 92327 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92327 Dup | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm | Yb |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |

Method Blank Method

Blank

Method Blank Method

Blank

Method Blank Method

Blank

Method Blank Method

Blank

Quality Control

| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| GXR-1 Meas | 0.2 | < 0.1 | 138 | | 0.36 | 742 | 1 | 2.5 | 28.1 | | 0.058 | 0.24 | |
| GXR-1 Cert | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 | |
| GXR-1 Meas | | | | | | | < 1 | | | | 0.050 | 0.22 | |
| GXR-1 Cert | | | | | | | 1.58 | | | | 0.0650 | 0.257 | |
| GXR-1 Meas | | | | | | | 1 | | | | 0.049 | 0.20 | |
| GXR-1 Cert | | | | | | | 1.58 | | | | 0.0650 | 0.257 | |
| GXR-1 Meas | | | | | | | 1 | | | | 0.051 | 0.20 | |
| GXR-1 Cert | | | | | | | 1.58 | | | | 0.0650 | 0.257 | |
| GXR-1 Meas | | | | | | | 1 | | | | 0.059 | 0.24 | |
| GXR-1 Cert | | | | | | | 1.58 | | | | 0.0650 | 0.257 | |
| GXR-1 Meas | | | | | | | 1 | | | | 0.051 | 0.20 | |
| GXR-1 Cert | | | | | | | 1.58 | | | | 0.0650 | 0.257 | |
| GXR-4 Meas | 0.1 | 0.6 | 34.6 | | 3.03 | 48.0 | 8 | 18.2 | 5.0 | | 0.133 | 1.78 | |
| GXR-4 Cert | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 | |
| GXR-4 Meas | | | | | | | 8 | | | | 0.131 | 1.74 | |
| GXR-4 Cert | | | | | | | 7.70 | | | | 0.120 | 1.77 | |
| GXR-4 Meas | | | | | | | 8 | | | | 0.132 | 1.79 | |
| GXR-4 Cert | | | | | | | 7.70 | | | | 0.120 | 1.77 | |
| GXR-4 Meas | | | | | | | 7 | | | | 0.127 | 1.70 | |
| GXR-4 Cert | | | | | | | 7.70 | | | | 0.120 | 1.77 | |
| GXR-4 Meas | | | | | | | 8 | | | | 0.132 | 1.77 | |
| GXR-4 Cert | | | | | | | 7.70 | | | | 0.120 | 1.77 | |
| GXR-4 Meas | | | | | | | 7 | | | | 0.131 | 1.81 | |
| GXR-4 Cert | | | | | | | 7.70 | | | | 0.120 | 1.77 | |
| SDC-1 Meas | | | 0.1 | | 24.2 | 15 | | | | 0.299 | 0.058 | 0.06 | |
| SDC-1 Cert | | | 0.800 | | 25.0 | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SDC-1 Meas | | | | | | 16 | | | | 0.338 | 0.060 | 0.07 | |
| SDC-1 Cert | | | | | | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SDC-1 Meas | | | | | | 17 | | | | 0.569 | 0.058 | 0.07 | |
| SDC-1 Cert | | | | | | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SDC-1 Meas | | | | | | 16 | | | | 0.407 | 0.054 | 0.06 | |
| SDC-1 Cert | | | | | | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SDC-1 Meas | | | | | | 16 | | | | 0.109 | 0.054 | 0.06 | |
| SDC-1 Cert | | | | | | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SDC-1 Meas | | | | | | 15 | | | | 0.129 | 0.055 | 0.06 | |
| SDC-1 Cert | | | | | | 17.0 | | | | 0.606 | 0.0690 | 0.0650 | |
| SCO-1 Meas | | | 0.8 | | 32.6 | 11 | | | | 0.357 | 0.083 | | |
| SCO-1 Cert | | | 1.40 | | 31.0 | 10.8 | | | | 0.380 | 0.0900 | | |
| SCO-1 Meas | | | | | | 12 | | | | 0.362 | 0.085 | | |
| SCO-1 Cert | | | | | | 10.8 | | | | 0.380 | 0.0900 | | |
| SCO-1 Meas | | | | | | 11 | | | | 0.350 | 0.081 | | |
| SCO-1 Cert | | | | | | 10.8 | | | | 0.380 | 0.0900 | | |
| SCO-1 Meas | | | | | | 13 | | | | 0.346 | 0.081 | | |
| SCO-1 Cert | | | | | | 10.8 | | | | 0.380 | 0.0900 | | |
| SCO-1 Meas | | | | | | 13 | | | | 0.320 | 0.084 | | |
| SCO-1 Cert | | | | | | 10.8 | | | | 0.380 | 0.0900 | | |
| SCO-1 Meas | | | | | | 11 | | | | 0.283 | 0.078 | | |
| SCO-1 Cert | | | | | | 10.8 | | | | 0.380 | 0.0900 | | |
| GXR-6 Meas | 0.2 | < 0.1 | 0.4 | | 2.03 | 98.0 | 26 | 3.5 | 1.1 | | 0.034 | 0.02 | |
| GXR-6 Cert | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 | |
| GXR-6 Meas | | | | | | | 27 | | | | 0.036 | 0.02 | |
| GXR-6 Cert | | | | | | | 27.6 | | | | 0.0350 | 0.0160 | |
| GXR-6 Meas | | | | | | | 28 | | | | 0.036 | 0.01 | |
| GXR-6 Cert | | | | | | | 27.6 | | | | 0.0350 | 0.0160 | |
| GXR-6 Meas | | | | | | | 28 | | | | 0.035 | 0.02 | |
| GXR-6 Cert | | | | | | | 27.6 | | | | 0.0350 | 0.0160 | |
| GXR-6 Meas | | | | | | | 29 | | | | 0.034 | 0.01 | |

Quality Control

| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| GXR-6 Cert | | | | | | | 27.6 | | | | 0.0350 | 0.0160 | |
| GXR-6 Meas | | | | | | | 32 | | | | 0.047 | 0.02 | |
| GXR-6 Cert | | | | | | | 27.6 | | | | 0.0350 | 0.0160 | |
| DNC-1a Meas | | | | | | | 33 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| DNC-1a Meas | | | | | | | 35 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| DNC-1a Meas | | | | | | | 31 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| DNC-1a Meas | | | | | | | 30 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| DNC-1a Meas | | | | | | | 31 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| DNC-1a Meas | | | | | | | 27 | | | | | | |
| DNC-1a Cert | | | | | | | 31.0 | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.10 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.08 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.08 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.07 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 1.06 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | 0.83 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | 1.20 | |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1190 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-1F Meas | | | | | | | | | | | | | 1170 |
| CDN-GS-1F Cert | | | | | | | | | | | | | 1160.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 231 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 248 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 258 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 238 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 240 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-P2 Meas | | | | | | | | | | | | | 239 |
| CDN-GS-P2 Cert | | | | | | | | | | | | | 214.00 |
| CDN-GS-1H Meas | | | | | | | | | | | | | 986 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |
| CDN-GS-1H Meas | | | | | | | | | | | | | 964 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |
| CDN-GS-1H Meas | | | | | | | | | | | | | 959 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |

Quality Control

| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| CDN-GS-1H Meas | | | | | | | | | | | | | 877 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |
| CDN-GS-1H Meas | | | | | | | | | | | | | 1010 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |
| CDN-GS-1H Meas | | | | | | | | | | | | | 1030 |
| CDN-GS-1H Cert | | | | | | | | | | | | | 972.00 |
| CDN-GS-P2A Meas | | | | | | | | | | | | | 238 |
| CDN-GS-P2A Cert | | | | | | | | | | | | | 229.00 |
| CDN-GS-P2A Meas | | | | | | | | | | | | | 228 |
| CDN-GS-P2A Cert | | | | | | | | | | | | | 229.00 |
| CDN-GS-P2A Meas | | | | | | | | | | | | | 260 |
| CDN-GS-P2A Cert | | | | | | | | | | | | | 229.00 |
| 101988 Orig | | | | | | | | | | | | | |
| 101988 Dup | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.49 | 17.7 | 11 | 9.8 | 1.2 | 0.302 | 0.071 | 0.01 | |
| 101993 Orig | | | | | | | | | | | | | < 5 |
| 101993 Dup | | | | | | | | | | | | | < 5 |
| 100741 Orig | 0.2 | 0.2 | 0.2 | 0.001 | 0.33 | 14.3 | 9 | 8.4 | 0.8 | 0.206 | 0.067 | < 0.01 | |
| 100741 Dup | 0.2 | < 0.1 | < 0.1 | 0.008 | 0.33 | 13.5 | 10 | 8.5 | 0.9 | 0.139 | 0.063 | < 0.01 | |
| 91737 Orig | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 12.5 | 13 | 9.3 | 0.9 | 0.113 | 0.045 | < 0.01 | < 5 |
| 91737 Dup | 0.2 | 0.8 | 2.7 | 0.003 | 0.28 | 11.6 | 10 | 4.3 | 0.6 | 0.618 | 0.053 | < 0.01 | < 5 |
| 91815 Orig | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.32 | 15.5 | 22 | 16.9 | 3.1 | 0.203 | 0.296 | 0.01 | |
| 91815 Dup | 0.4 | < 0.1 | < 0.1 | 0.003 | 0.33 | 17.5 | 22 | 19.8 | 3.4 | 0.333 | 0.309 | 0.01 | |
| 92241 Orig | | | | | | | | | | | | | < 5 |
| 92241 Dup | | | | | | | | | | | | | < 5 |
| 92246 Orig | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.22 | 12.4 | 14 | 9.0 | 1.0 | 0.127 | 0.087 | < 0.01 | |
| 92246 Dup | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.21 | 11.3 | 15 | 8.7 | 0.9 | 0.152 | 0.094 | < 0.01 | |
| 92260 Orig | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.16 | 25.5 | 31 | 17.8 | 5.3 | 0.325 | 0.169 | 0.01 | |
| 92260 Dup | 0.4 | 1.3 | < 0.1 | < 0.001 | 0.15 | 23.0 | 29 | 18.5 | 4.8 | 1.34 | 0.235 | 0.03 | |
| 92205 Orig | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.31 | 45.8 | 20 | 20.6 | 2.6 | 0.525 | 0.162 | 0.02 | |
| 92205 Dup | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.31 | 47.5 | 19 | 23.1 | 2.7 | 0.179 | 0.171 | 0.02 | |
| 92210 Orig | | | | | | | | | | | | | < 5 |
| 92210 Dup | | | | | | | | | | | | | < 5 |
| 92231 Orig | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 18.1 | 15 | 9.9 | 1.9 | 0.0710 | 0.024 | 0.02 | |
| 92231 Dup | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.21 | 19.0 | 14 | 9.6 | 1.9 | 0.0621 | 0.023 | 0.02 | |
| 92273 Orig | | | | | | | | | | | | | < 5 |
| 92273 Dup | | | | | | | | | | | | | < 5 |
| 100728 Orig | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.30 | 12.0 | 30 | 14.9 | 0.7 | 0.136 | 0.097 | 0.02 | |
| 100728 Dup | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.28 | 11.9 | 30 | 15.8 | 0.8 | 0.149 | 0.097 | 0.02 | |
| 91933 Orig | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.31 | 19.7 | 23 | 23.9 | 4.8 | 0.374 | 0.173 | 0.04 | |
| 91933 Dup | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 20.0 | 23 | 24.7 | 4.7 | 0.388 | 0.183 | 0.04 | |
| 91937 Orig | | | | | | | | | | | | | < 5 |
| 91937 Dup | | | | | | | | | | | | | < 5 |
| 91947 Orig | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.37 | 11.9 | 12 | 6.6 | 0.6 | 0.184 | 0.039 | < 0.01 | |
| 91947 Dup | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 11.9 | 13 | 7.0 | 0.6 | 0.167 | 0.038 | < 0.01 | |
| 91968 Orig | 0.4 | 0.1 | < 0.1 | 0.001 | 0.29 | 22.0 | 23 | 15.0 | 1.5 | 0.278 | 0.211 | < 0.01 | |
| 91968 Dup | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.28 | 22.6 | 24 | 14.9 | 1.7 | 0.178 | 0.216 | < 0.01 | |
| 91982 Orig | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 10.7 | 20 | 9.8 | 0.8 | 0.134 | 0.105 | < 0.01 | < 5 |
| 91982 Dup | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.30 | 11.1 | 20 | 11.2 | 0.9 | 0.138 | 0.108 | < 0.01 | 6 |
| 91853 Orig | 0.3 | 1.2 | 0.6 | < 0.001 | 0.26 | 16.6 | 16 | 18.2 | 2.9 | 0.704 | 0.351 | 0.01 | |
| 91853 Dup | 0.3 | 3.9 | 1.5 | < 0.001 | 0.28 | 16.9 | 16 | 17.1 | 2.9 | 0.814 | 0.365 | 0.01 | |
| 91862 Orig | | | | | | | | | | | | | < 5 |
| 91862 Dup | | | | | | | | | | | | | < 5 |
| 91879 Orig | 0.5 | < 0.1 | < 0.1 | 0.003 | 0.15 | 23.8 | 26 | 17.6 | 1.8 | 0.170 | 0.238 | 0.02 | |
| 91879 Dup | 0.5 | < 0.1 | < 0.1 | 0.004 | 0.16 | 23.2 | 27 | 17.1 | 1.8 | 0.230 | 0.239 | 0.02 | |
| 91892 Orig | | | | | | | | | | | | | < 5 |
| 91892 Dup | | | | | | | | | | | | | 11 |
| 91893 Orig | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.16 | 12.3 | 17 | 22.1 | 2.1 | 0.261 | 0.151 | 0.02 | |

| Quality Control | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |
| 91893 Dup | 0.4 | < 0.1 | < 0.1 | 0.005 | 0.19 | 12.9 | 18 | 23.3 | 2.3 | 0.233 | 0.168 | 0.02 | |
| 91914 Orig | 0.2 | 2.8 | 0.4 | 0.005 | 0.28 | 16.6 | 18 | 6.7 | 1.2 | 1.27 | 0.181 | 0.03 | |
| 91914 Dup | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.30 | 19.3 | 20 | 12.7 | 2.4 | 0.218 | 0.147 | 0.03 | |
| 92580 Orig | 0.2 | 0.6 | 0.5 | 0.003 | 0.33 | 16.7 | 12 | 11.3 | 1.5 | 0.186 | 0.131 | < 0.01 | |
| 92580 Dup | 0.2 | 0.8 | 0.7 | 0.004 | 0.36 | 17.1 | 13 | 12.1 | 1.7 | 0.241 | 0.166 | 0.02 | |
| 92589 Orig | | | | | | | | | | | | | 13 |
| 92589 Dup | | | | | | | | | | | | | 7 |
| 92601 Orig | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 21.0 | 13 | 23.6 | 3.1 | 0.112 | 0.356 | < 0.01 | |
| 92601 Dup | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.34 | 21.1 | 13 | 25.2 | 3.3 | 0.0818 | 0.327 | < 0.01 | |
| 92615 Orig | 0.3 | 0.4 | 0.1 | 0.001 | 0.35 | 51.0 | 15 | 23.6 | 4.5 | 0.117 | 0.443 | 0.02 | |
| 92615 Dup | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.35 | 45.6 | 14 | 22.8 | 5.0 | 0.0845 | 0.446 | 0.01 | |
| 92619 Orig | | | | | | | | | | | | | < 5 |
| 92619 Dup | | | | | | | | | | | | | < 5 |
| 92636 Orig | 0.2 | 0.3 | 0.4 | 0.003 | 0.39 | 17.0 | 11 | 10.6 | 1.3 | 0.343 | 0.099 | < 0.01 | |
| 92636 Dup | 0.1 | 1.7 | 0.8 | 0.005 | 0.39 | 16.8 | 8 | 6.3 | 1.0 | 0.321 | 0.102 | < 0.01 | |
| 92649 Orig | | | | | | | | | | | | | < 5 |
| 92649 Dup | | | | | | | | | | | | | < 5 |
| 92662 Orig | 0.3 | 1.0 | 1.7 | 0.005 | 0.40 | 21.8 | 17 | 25.2 | 5.4 | 0.269 | 0.337 | 0.03 | |
| 92662 Dup | 0.3 | 0.5 | 1.0 | 0.004 | 0.37 | 20.0 | 17 | 24.3 | 5.2 | 0.210 | 0.330 | 0.02 | |
| 92129 Orig | 0.2 | 0.2 | 0.2 | < 0.001 | 0.38 | 14.8 | 13 | 11.7 | 1.3 | 0.496 | 0.081 | < 0.01 | |
| 92129 Dup | 0.1 | 1.6 | 3.0 | 0.001 | 0.37 | 14.2 | 12 | 2.9 | 0.8 | 0.644 | 0.084 | < 0.01 | |
| 92147 Orig | | | | | | | | | | | | | < 5 |
| 92147 Dup | | | | | | | | | | | | | < 5 |
| 92150 Orig | 0.3 | < 0.1 | < 0.1 | 0.006 | 0.26 | 30.3 | 24 | 17.7 | 3.1 | 0.469 | 0.181 | 0.03 | |
| 92150 Dup | 0.3 | < 0.1 | 0.1 | 0.008 | 0.28 | 30.1 | 24 | 17.0 | 3.0 | 0.643 | 0.260 | 0.07 | |
| 92164 Orig | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.23 | 9.2 | 18 | 7.4 | 1.0 | 0.339 | 0.098 | 0.01 | |
| 92164 Dup | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.25 | 10.1 | 19 | 8.6 | 1.1 | 0.242 | 0.105 | 0.01 | |
| 92177 Orig | | | | | | | | | | | | | < 5 |
| 92177 Dup | | | | | | | | | | | | | 16 |
| 92185 Orig | 0.1 | < 0.1 | < 0.1 | 0.006 | 0.41 | 14.8 | 12 | 7.6 | 1.0 | 0.329 | 0.049 | < 0.01 | |
| 92185 Dup | 0.1 | < 0.1 | < 0.1 | 0.003 | 0.41 | 14.5 | 12 | 7.8 | 0.9 | 0.351 | 0.052 | < 0.01 | |
| 92199 Orig | 0.1 | < 0.1 | < 0.1 | 0.005 | 0.14 | 7.6 | 17 | 3.9 | 0.5 | 0.553 | 0.102 | < 0.01 | |
| 92199 Dup | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.16 | 8.2 | 17 | 7.0 | 0.7 | 0.374 | 0.085 | < 0.01 | |
| 92379 Orig | | | | | | | | | | | | | < 5 |
| 92379 Dup | | | | | | | | | | | | | < 5 |
| 92392 Orig | 0.4 | 0.7 | 1.2 | 0.008 | 0.24 | 20.1 | 21 | 17.2 | 2.2 | 0.876 | 0.340 | 0.02 | |
| 92392 Dup | 0.4 | 1.3 | 1.3 | 0.001 | 0.26 | 20.7 | 22 | 16.8 | 1.9 | 0.880 | 0.348 | 0.02 | |
| 92418 Orig | 0.7 | 0.1 | 2.2 | < 0.001 | 0.17 | 27.8 | 35 | 10.7 | 5.8 | 1.16 | 0.278 | < 0.01 | |
| 92418 Dup | 0.8 | < 0.1 | 1.1 | 0.002 | 0.18 | 29.6 | 24 | 21.2 | 6.5 | 0.647 | 0.298 | < 0.01 | |
| 92424 Orig | | | | | | | | | | | | | < 5 |
| 92424 Dup | | | | | | | | | | | | | < 5 |
| 92432 Orig | 0.2 | < 0.1 | 0.4 | 0.001 | 0.30 | 18.5 | 13 | 26.4 | 1.7 | 0.336 | 0.089 | 0.01 | |
| 92432 Dup | 0.2 | < 0.1 | 0.3 | 0.007 | 0.28 | 18.6 | 13 | 25.8 | 1.5 | 0.363 | 0.091 | 0.01 | |
| 92453 Orig | 0.3 | 0.5 | 1.2 | 0.002 | 0.35 | 17.7 | 20 | 17.3 | 1.0 | 0.673 | 0.142 | 0.01 | |
| 92453 Dup | 0.3 | < 0.1 | 0.9 | 0.003 | 0.36 | 17.4 | 20 | 17.3 | 1.1 | 0.557 | 0.133 | 0.01 | |
| 92454 Orig | | | | | | | | | | | | | < 5 |
| 92454 Dup | | | | | | | | | | | | | < 5 |
| 92467 Orig | 0.2 | 1.7 | 2.2 | 0.003 | 0.34 | 16.2 | 18 | 8.0 | 1.2 | 0.734 | 0.168 | 0.01 | |
| 92467 Dup | 0.2 | 1.9 | 2.2 | 0.003 | 0.35 | 16.2 | 16 | 9.5 | 1.2 | 0.689 | 0.153 | < 0.01 | |
| 92507 Orig | | | | | | | | | | | | | < 5 |
| 92507 Dup | | | | | | | | | | | | | < 5 |
| 92511 Orig | 0.1 | < 0.1 | 0.2 | 0.004 | 0.44 | 17.6 | 9 | 9.7 | 1.8 | 0.325 | 0.040 | < 0.01 | |
| 92511 Dup | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.45 | 17.1 | 10 | 10.3 | 1.4 | 0.326 | 0.041 | < 0.01 | |
| 92547 Orig | 0.1 | 0.5 | 0.7 | 0.002 | 0.32 | 17.3 | 8 | 4.0 | 0.9 | 0.214 | 0.467 | 0.01 | |
| 92547 Dup | 0.2 | < 0.1 | 0.5 | 0.001 | 0.34 | 19.0 | 8 | 5.4 | 1.1 | 0.139 | 0.434 | 0.01 | |
| 92327 Orig | | | | | | | | | | | | | < 5 |
| 92327 Dup | | | | | | | | | | | | | < 5 |

| Quality Control | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|-------|
| Analyte Symbol | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S | Au |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | ppb |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 | 5 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP | FA-AA |

| | |
|------------------------------|-----|
| Method Blank Method Blank | < 5 |
| Method Blank Method Blank | < 5 |
| Method Blank Method Blank | < 5 |
| Method Blank Method Blank | < 5 |



Date Submitted: 28-Sep-11
Invoice No.: A11-11134
Invoice Date: 18-Oct-11
Your Reference: BATCH #14

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

279 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A11-11134**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92013 | | 45.1 | 2.13 | 1.75 | 6.64 | 2.03 | 2.25 | 0.3 | 96 | 61.5 | 1480 | 6.22 | 0.8 | 56.5 | 3.1 | 3.3 | 1.2 | < 0.05 | 2.00 | 24.0 | 4.28 | 0.10 | 1.4 | 110 |
| 92901 | | 28.0 | 2.91 | 2.01 | 6.67 | 1.74 | 1.75 | < 0.1 | 63 | 147 | 829 | 6.95 | < 0.1 | 118 | 2.1 | 4.0 | 0.8 | 0.90 | 2.55 | 34.1 | 2.03 | 0.05 | 0.9 | 92.0 |
| 92902 | < 5 | 32.1 | > 3.00 | 1.67 | 7.11 | 1.60 | 1.38 | 0.1 | 130 | 170 | 866 | 6.85 | 3.2 | 109 | 2.1 | 5.6 | 0.8 | < 0.05 | 2.10 | 28.8 | 2.90 | 0.06 | 1.3 | 78.6 |
| 92903 | | 47.9 | 2.79 | 2.47 | 6.86 | 1.92 | 1.59 | < 0.1 | 80 | 246 | 967 | 6.62 | 0.4 | 180 | 2.0 | 6.6 | 0.8 | 0.41 | 2.65 | 37.6 | 2.58 | 0.05 | 0.8 | 105 |
| 92904 | | 32.7 | 2.89 | 2.14 | 6.79 | 1.57 | 1.47 | 0.1 | 80 | 216 | 1330 | 6.90 | 2.0 | 156 | 2.6 | 4.7 | 1.0 | 0.32 | 2.38 | 37.1 | 3.72 | 0.08 | 1.0 | 94.0 |
| 92905 | < 5 | 38.6 | 1.61 | 1.51 | 5.26 | 1.58 | 2.53 | 0.5 | 102 | 329 | 3390 | 5.69 | 1.5 | 111 | 5.5 | 5.5 | 2.4 | < 0.05 | 2.16 | 27.0 | 5.84 | 0.13 | 2.0 | 134 |
| 92906 | | 19.7 | 2.50 | 1.01 | 6.71 | 1.75 | 1.19 | 0.1 | 31 | 60.4 | 396 | 4.02 | 2.0 | 39.6 | 1.1 | 2.5 | 0.4 | 0.23 | 1.69 | 16.0 | 0.94 | 0.04 | 0.5 | 45.7 |
| 92907 | | 19.9 | 2.55 | 1.09 | 6.66 | 1.70 | 1.13 | < 0.1 | 48 | 61.0 | 400 | 4.21 | 0.2 | 41.3 | 1.3 | 2.1 | 0.5 | 0.12 | 1.70 | 15.6 | 1.23 | 0.03 | 0.7 | 49.0 |
| 92908 | < 5 | 23.8 | 2.35 | 1.20 | 6.47 | 1.67 | 1.30 | 0.2 | 61 | 78.5 | 585 | 4.40 | 0.3 | 43.5 | 1.4 | 1.9 | 0.5 | 0.14 | 1.89 | 16.5 | 1.42 | 0.03 | 0.7 | 67.0 |
| 92909 | | 34.3 | 1.84 | 2.86 | 4.27 | 0.79 | 3.90 | 0.4 | 137 | 74.2 | 1910 | 6.41 | 2.8 | 53.1 | 5.2 | 5.2 | 2.1 | < 0.05 | 1.82 | 28.0 | 7.35 | 0.13 | 1.6 | 159 |
| 92910 | | 26.2 | 1.55 | 1.73 | 4.50 | 1.19 | 2.52 | 0.2 | 99 | 171 | 695 | 4.94 | 1.5 | 124 | 1.9 | 3.0 | 0.8 | < 0.05 | 1.91 | 22.3 | 2.42 | 0.07 | 1.1 | 79.7 |
| 92911 | < 5 | 27.5 | 1.84 | 1.86 | 5.82 | 1.46 | 1.80 | 0.1 | 95 | 184 | 670 | 5.54 | 0.3 | 64.5 | 2.1 | 3.2 | 0.8 | < 0.05 | 2.43 | 21.8 | 2.43 | 0.04 | 0.9 | 92.8 |
| 92912 | | 20.0 | 2.38 | 1.13 | 6.45 | 1.61 | 1.43 | 0.1 | 45 | 70.0 | 498 | 4.29 | 0.8 | 44.2 | 1.4 | 1.8 | 0.5 | 0.07 | 1.93 | 17.6 | 1.39 | 0.03 | 0.7 | 61.1 |
| 92913 | | 16.1 | 2.25 | 1.07 | 5.99 | 1.66 | 1.63 | 0.1 | 58 | 72.3 | 650 | 4.20 | 0.4 | 40.5 | 1.7 | 1.8 | 0.6 | 0.07 | 1.79 | 16.1 | 1.52 | < 0.02 | 1.0 | 65.5 |
| 92914 | < 5 | 18.3 | 2.38 | 2.04 | 6.03 | 1.74 | 3.82 | 0.2 | 93 | 66.5 | 954 | 4.62 | 2.6 | 40.5 | 3.2 | 2.5 | 1.2 | < 0.05 | 1.49 | 16.8 | 3.45 | 0.06 | 0.9 | 86.9 |
| 92915 | | 27.4 | 1.50 | 2.15 | 3.19 | 0.69 | 2.59 | 0.2 | 94 | 59.5 | 1350 | 4.83 | 0.5 | 56.5 | 1.5 | 4.2 | 0.6 | < 0.05 | 1.41 | 30.7 | 2.45 | 0.03 | 1.1 | 97.0 |
| 92916 | | 28.2 | 2.85 | 1.84 | 6.63 | 1.75 | 1.79 | 0.3 | 115 | 135 | 1490 | 6.21 | 2.7 | 87.0 | 3.0 | 4.1 | 1.2 | < 0.05 | 2.06 | 28.5 | 4.22 | 0.06 | 1.1 | 124 |
| 92917 | < 5 | 14.8 | 1.04 | 1.03 | 2.14 | 0.45 | 4.12 | 0.6 | 54 | 36.2 | 2960 | 2.93 | < 0.1 | 41.6 | 2.6 | 3.6 | 1.1 | < 0.05 | 1.22 | 12.1 | 3.60 | 0.08 | 2.0 | 97.3 |
| 92918 | | 29.6 | 2.75 | 1.68 | 6.36 | 1.54 | 1.66 | 0.1 | 108 | 155 | 855 | 5.45 | 1.4 | 106 | 2.3 | 4.5 | 0.9 | < 0.05 | 2.16 | 26.4 | 2.74 | 0.03 | 0.8 | 98.5 |
| 92919 | | 26.8 | 2.61 | 1.62 | 3.69 | 0.81 | 1.42 | 0.1 | 138 | 196 | 904 | 5.53 | 3.4 | 116 | 1.6 | 4.0 | 0.6 | < 0.05 | 1.67 | 29.4 | 1.76 | 0.04 | 0.7 | 87.7 |
| 92920 | < 5 | 27.2 | 2.58 | 1.55 | 6.22 | 1.02 | 2.00 | 0.2 | 147 | 131 | 1250 | 6.16 | 1.8 | 112 | 4.0 | 3.8 | 1.6 | < 0.05 | 2.07 | 30.5 | 5.74 | 0.07 | 1.0 | 75.8 |
| 92921 | | 33.7 | > 3.00 | 2.00 | 7.29 | 1.58 | 1.31 | < 0.1 | 82 | 183 | 497 | 6.25 | 0.2 | 125 | 2.1 | 4.3 | 0.8 | < 0.05 | 2.54 | 30.9 | 2.34 | 0.02 | 0.7 | 91.1 |
| 92922 | | 48.8 | 2.98 | 1.73 | 6.38 | 1.05 | 1.19 | 0.1 | 115 | 172 | 963 | 7.51 | 1.1 | 119 | 2.7 | 20.2 | 1.1 | < 0.05 | 1.69 | 35.5 | 3.20 | 0.04 | 1.1 | 99.5 |
| 92923 | < 5 | 21.1 | 1.96 | 2.88 | 4.00 | 0.26 | 1.29 | 0.4 | 52 | 1030 | 2000 | 11.1 | 0.8 | 820 | 3.3 | 11.1 | 1.4 | < 0.05 | 1.34 | 89.1 | 3.56 | 0.03 | 1.3 | 209 |
| 92924 | | 34.1 | 2.93 | 2.13 | 6.11 | 1.43 | 1.42 | 0.2 | 129 | 280 | 1310 | 8.25 | 2.4 | 169 | 3.5 | 7.3 | 1.3 | < 0.05 | 2.75 | 40.0 | 4.19 | 0.07 | 1.3 | 122 |
| 92925 | | 47.4 | 2.23 | 2.45 | 4.91 | 1.25 | 1.47 | 0.2 | 112 | 356 | 1640 | 6.88 | 2.3 | 244 | 3.4 | 9.2 | 1.3 | < 0.05 | 2.66 | 44.6 | 4.58 | 0.11 | 1.2 | 123 |
| 92673 | < 5 | 27.5 | 2.82 | 1.75 | 5.86 | 1.23 | 1.48 | 0.1 | 95 | 256 | 1080 | 6.91 | 2.4 | 160 | 2.2 | 4.4 | 0.9 | < 0.05 | 2.18 | 35.0 | 2.89 | 0.05 | 0.9 | 97.6 |
| 92674 | | 27.2 | 2.57 | 1.43 | 6.90 | 1.63 | 1.12 | 0.1 | 82 | 117 | 720 | 5.38 | 3.0 | 81.5 | 1.7 | 3.3 | 0.6 | < 0.05 | 2.01 | 26.0 | 1.93 | < 0.02 | 0.6 | 65.9 |
| 92675 | | 37.5 | > 3.00 | 1.81 | 6.56 | 1.26 | 1.12 | 0.2 | 90 | 203 | 1320 | 7.80 | 1.8 | 136 | 3.0 | 6.6 | 1.3 | < 0.05 | 2.73 | 33.1 | 9.12 | 0.16 | 0.8 | 117 |
| 92676 | < 5 | 37.3 | 2.38 | 1.52 | 3.25 | 1.17 | 0.96 | 0.2 | 132 | 252 | 1070 | 6.12 | 3.8 | 133 | 1.4 | 3.9 | 0.5 | < 0.05 | 1.67 | 27.7 | 1.61 | 0.08 | 0.6 | 82.7 |
| 92677 | | 44.4 | 2.58 | 2.53 | 5.22 | 1.12 | 1.29 | 0.2 | 88 | 399 | 1330 | 7.20 | 1.2 | 257 | 2.8 | 7.7 | 1.2 | < 0.05 | 2.95 | 41.4 | 4.05 | 0.08 | 1.0 | 120 |
| 92678 | | 46.7 | 2.99 | 2.74 | 6.36 | 1.66 | 1.36 | 0.2 | 83 | 386 | 1350 | 7.31 | 0.6 | 265 | 2.9 | 8.4 | 1.2 | 0.05 | 2.76 | 47.2 | 3.92 | 0.06 | 1.1 | 123 |
| 92679 | < 5 | 34.9 | > 3.00 | 1.89 | 6.21 | 1.05 | 1.30 | 0.2 | 71 | 286 | 852 | 6.93 | 1.9 | 180 | 2.2 | 6.0 | 0.9 | < 0.05 | 2.56 | 36.0 | 3.21 | 0.07 | 0.7 | 86.5 |
| 92680 | | 43.2 | > 3.00 | 1.83 | 6.69 | 1.25 | 0.78 | 0.1 | 54 | 239 | 546 | 6.75 | 2.2 | 153 | 1.2 | 5.2 | 0.5 | < 0.05 | 2.47 | 32.1 | 1.57 | 0.03 | 0.2 | 74.4 |
| 92681 | | 15.6 | 2.55 | 0.94 | 6.21 | 1.67 | 1.48 | < 0.1 | 62 | 89.7 | 590 | 3.45 | 0.9 | 50.7 | 1.5 | 2.2 | 0.5 | < 0.05 | 1.74 | 13.3 | 1.29 | < 0.02 | 0.7 | 44.0 |
| 92682 | 8 | 32.1 | 2.54 | 1.84 | 6.62 | 1.93 | 1.26 | 0.2 | 79 | 187 | 1020 | 5.77 | 2.8 | 135 | 2.4 | 5.4 | 0.9 | 0.13 | 2.50 | 32.9 | 2.61 | 0.05 | 0.8 | 85.4 |
| 92683 | | 31.4 | > 3.00 | 2.60 | 6.33 | 1.40 | 0.52 | < 0.1 | 92 | 248 | 1160 | 8.18 | 1.4 | 173 | 1.0 | 5.7 | 0.3 | < 0.05 | 4.01 | 52.5 | 1.29 | < 0.02 | 0.6 | 118 |
| 92684 | | 34.1 | 3.00 | 2.11 | 4.39 | 0.62 | 0.74 | 0.1 | 189 | 609 | 1260 | 7.57 | 3.5 | 313 | 1.7 | 5.8 | 0.7 | < 0.05 | 1.79 | 51.9 | 1.83 | < 0.02 | 0.9 | 65.9 |
| 92685 | < 5 | 23.5 | 2.66 | 1.57 | 5.72 | 1.12 | 0.97 | 0.1 | 64 | 226 | 669 | 5.43 | 2.6 | 132 | 1.8 | 4.3 | 0.7 | < 0.05 | 2.27 | 28.5 | 2.02 | < 0.02 | 1.0 | 71.7 |
| 92686 | | 53.7 | 1.60 | 2.04 | 4.65 | 1.15 | 1.52 | 1.1 | 100 | 373 | 4190 | 12.0 | < 0.1 | 244 | 8.5 | 11.9 | 4.2 | < 0.05 | 1.70 | 51.5 | 25.3 | 1.14 | 3.4 | 526 |
| 92687 | | 26.1 | 2.90 | 1.90 | 5.82 | 0.95 | 1.40 | 0.3 | 49 | 246 | 1340 | 6.47 | 1.2 | 183 | 2.2 | 5.4 | 0.9 | < 0.05 | 2.82 | 39.4 | 2.55 | 0.08 | 1.0 | 135 |
| 92688 | 7 | 69.3 | 0.76 | 2.83 | 3.61 | 1.40 | 3.08 | 1.6 | 105 | 260 | 7810 | 13.3 | 0.4 | 166 | 10.0 | 19.6 | 5.1 | < 0.05 | 1.36 | 49.9 | 33.9 | 1.57 | 3.9 | 703 |
| 92689 | | 29.4 | > 3.00 | 1.76 | 6.61 | 0.83 | 0.74 | < 0.1 | 57 | 188 | 881 | 7.16 | 1.6 | 145 | 1.9 | 5.1 | 0.8 | < 0.05 | 1.89 | 38.5 | 2.39 | 0.04 | 0.3 | 81.4 |
| 92690 | | 29.2 | > 3.00 | 1.63 | 6.05 | 0.83 | 1.19 | 0.1 | 52 | 211 | 795 | 7.18 | 0.3 | 156 | 2.2 | 5.1 | 0.9 | < 0.05 | 3.09 | 35.9 | 2.82 | 0.03 | 0.7 | 81.1 |
| 92691 | < 5 | 32.2 | > 3.00 | 2.36 | 5.90 | 1.04 | 1.07 | 0.1 | 72 | 322 | 1140 | 7.77 | 1.8 | 236 | 2.3 | 6.1 | 0.9 | < 0.05 | 3.08 | 45.9 | 2.74 | 0.04 | 0.9 | 97.4 |
| 92692 | | 40.6 | > 3.00 | 2.60 | 6.19 | 0.82 | 0.64 | 0.1 | 58 | 378 | 1240 | 8.25 | 1.4 | 306 | 3.2 | 8.0 | 1.3 | < 0.05 | 3.34 | 51.3 | 3.70 | 0.05 | 0.8 | 100 |
| 92693 | | 60.1 | 2.66 | 4.29 | 5.00 | 0.77 | 2.42 | 0.2 | 177 | 833 | 1280 | 8.03 | 3.0 | 477 | 1.9 | 13.3 | 0.7 | < 0.05 | 2.59 | 66.5 | 1.73 | < 0.02 | 0.9 | 120 |
| 92694 | < 5 | 41.5 | > 3.00 | 2.42 | 5.69 | 1.25 | 1.02 | 0.1 | 130 | 331 | 1250 | 7.15 | 2.9 | 220 | 2.4 | 7.4 | 0.9 | < 0.05 | 2.85 | 45.0 | 2.66 | 0.03 | 0.8 | 111 |
| 92695 | | 51.6 | > 3.00 | 2.31 | 6.31 | 0.85 | 0.45 | 0.1 | 87 | 401 | 842 | 8.98 | 2.5 | 228 | 1.5 | 10.0 | 0.6 | < 0.05 | 2.33 | 49.3 | 2.38 | 0.03 | 0.4 | 109 |
| 92696 | | 45.9 | 2.75 | 3.46 | 5.64 | 1.58 | 3.64 | 0.2 | 91 | 433 | 1340 | 7.02 | 2.2 | 273 | 2.7 | 8.9 | 1.1 | < 0.05 | 2.78 | 46.0 | 3.63 | 0.07 | 0.8 | 117 |
| 92697 | < 5 | 35.4 | 2.39 | 2.46 | 4.69 | 0.73 | 1.70 | 0.2 | 92 | 407 | 1670 | 6.64 | < 0.1 | 247 | 2.7 | 7.9 | 1.1 | < 0.05 | 2.66 | 42.9 | 3.94 | 0.06 | 0.9 | 102 |
| 92698 | | 42.5 | > 3.00 | 2.38 | 6.49 | 1.07 | 1.15 | 0.1 | 88 | 354 | 1480 | 7.58 | < 0.1 | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92699 | | 28.1 | 2.34 | 1.31 | 5.93 | 1.36 | 1.21 | < 0.1 | 61 | 145 | 781 | 5.06 | 0.2 | 87.9 | 1.9 | 3.2 | 0.8 | < 0.05 | 1.88 | 23.3 | 2.16 | 0.04 | 0.6 | 61.2 |
| 92700 | < 5 | 68.4 | > 3.00 | 2.69 | 6.04 | 1.11 | 0.87 | 0.1 | 65 | 446 | 879 | 8.23 | 1.3 | 290 | 2.2 | 12.9 | 0.9 | < 0.05 | 2.59 | 41.8 | 4.13 | 0.10 | 0.8 | 128 |
| 107301 | | 36.4 | 2.27 | 1.61 | 5.59 | 1.10 | 1.11 | 0.1 | 65 | 251 | 758 | 5.66 | 1.3 | 138 | 2.4 | 6.2 | 1.0 | < 0.05 | 2.22 | 27.9 | 3.25 | 0.08 | 0.8 | 71.8 |
| 107302 | | 28.2 | 1.84 | 1.68 | 3.51 | 0.40 | 1.75 | 0.2 | 122 | 359 | 1150 | 5.34 | 1.5 | 199 | 2.7 | 7.1 | 1.2 | < 0.05 | 1.59 | 33.0 | 4.13 | 0.06 | 0.8 | 78.8 |
| 107303 | < 5 | 33.5 | 2.59 | 2.18 | 5.18 | 1.04 | 1.65 | 0.2 | 142 | 323 | 1240 | 6.15 | 2.9 | 201 | 2.8 | 6.3 | 1.1 | < 0.05 | 2.44 | 36.4 | 3.81 | 0.06 | 1.1 | 105 |
| 107304 | | 36.9 | > 3.00 | 2.15 | 5.99 | 1.02 | 0.91 | 0.2 | 72 | 316 | 1210 | 7.26 | 1.6 | 225 | 2.5 | 7.4 | 1.0 | < 0.05 | 2.47 | 43.1 | 3.32 | 0.04 | 0.6 | 97.6 |
| 107305 | | 35.8 | 2.89 | 1.72 | 4.15 | 0.72 | 1.05 | 0.1 | 171 | 378 | 1140 | 7.02 | 4.3 | 226 | 2.8 | 5.6 | 1.1 | < 0.05 | 2.18 | 38.9 | 2.61 | 0.02 | 1.0 | 74.2 |
| 107306 | < 5 | 31.0 | 2.76 | 1.80 | 5.52 | 1.01 | 1.23 | 0.2 | 78 | 283 | 1150 | 5.71 | 1.3 | 176 | 2.1 | 5.7 | 0.8 | < 0.05 | 2.44 | 34.8 | 2.72 | 0.04 | 0.6 | 92.6 |
| 107307 | | 32.7 | 2.42 | 2.01 | 5.28 | 1.11 | 1.16 | 0.2 | 86 | 283 | 735 | 6.93 | 0.1 | 189 | 2.6 | 8.4 | 1.0 | < 0.05 | 3.16 | 34.5 | 2.81 | 0.04 | 1.3 | 128 |
| 107308 | | 27.1 | > 3.00 | 1.94 | 6.14 | 0.98 | 0.84 | < 0.1 | 40 | 239 | 1090 | 6.52 | < 0.1 | 179 | 1.7 | 6.6 | 0.7 | < 0.05 | 2.94 | 37.9 | 1.95 | < 0.02 | 0.7 | 78.8 |
| 107309 | < 5 | 20.4 | 1.93 | 2.79 | 4.41 | 0.46 | 2.38 | 0.1 | 86 | 218 | 1020 | 8.70 | 2.5 | 166 | 1.5 | 3.9 | 0.6 | < 0.05 | 2.00 | 54.1 | 2.52 | 0.05 | 0.8 | 88.0 |
| 107310 | | 33.4 | 2.96 | 2.06 | 6.05 | 0.79 | 1.26 | 0.1 | 70 | 339 | 890 | 7.67 | 2.2 | 213 | 3.0 | 6.1 | 1.2 | < 0.05 | 2.86 | 40.7 | 3.46 | 0.05 | 0.7 | 92.5 |
| 107311 | | 40.3 | > 3.00 | 2.06 | 6.57 | 1.15 | 1.10 | 0.1 | 64 | 275 | 1180 | 7.95 | 2.0 | 178 | 2.5 | 5.7 | 0.9 | < 0.05 | 2.99 | 41.6 | 2.99 | 0.05 | 0.7 | 95.2 |
| 107312 | < 5 | 27.6 | > 3.00 | 1.19 | 6.42 | 1.10 | 1.17 | < 0.1 | 58 | 162 | 559 | 6.03 | 2.3 | 88.9 | 1.6 | 3.9 | 0.6 | < 0.05 | 1.33 | 24.7 | 1.77 | < 0.02 | 0.6 | 61.0 |
| 107313 | | 62.1 | 2.71 | 1.76 | 6.66 | 0.99 | 1.33 | 0.2 | 87 | 201 | 684 | 9.31 | < 0.1 | 108 | 4.6 | 10.5 | 1.9 | < 0.05 | 2.07 | 30.9 | 6.49 | 0.23 | 1.0 | 134 |
| 107314 | | 18.8 | > 3.00 | 1.53 | 4.72 | 0.93 | 0.40 | 0.2 | 167 | 315 | 455 | 6.77 | 5.4 | 114 | 1.5 | 4.4 | 0.6 | < 0.05 | 1.46 | 26.7 | 1.80 | 0.03 | 0.4 | 84.8 |
| 107315 | < 5 | 33.7 | > 3.00 | 2.10 | 6.67 | 1.10 | 0.97 | 0.2 | 103 | 243 | 1060 | 7.67 | 2.3 | 127 | 2.3 | 7.2 | 0.9 | < 0.05 | 2.51 | 40.3 | 3.45 | 0.06 | 0.6 | 122 |
| 107316 | | 30.9 | > 3.00 | 2.16 | 6.93 | 0.70 | 0.83 | < 0.1 | 78 | 273 | 1180 | 8.48 | 0.2 | 187 | 2.1 | 6.0 | 0.8 | < 0.05 | 2.43 | 45.1 | 2.97 | < 0.02 | 0.6 | 86.0 |
| 107317 | | 27.6 | 2.63 | 2.86 | 5.53 | 1.26 | 3.13 | 0.1 | 56 | 239 | 1030 | 6.75 | 1.0 | 179 | 2.2 | 5.1 | 0.8 | 1.10 | 2.87 | 38.1 | 2.39 | 0.04 | 1.4 | 92.9 |
| 107318 | 6 | 24.0 | 2.05 | 1.87 | 4.69 | 0.92 | 1.86 | 0.2 | 71 | 198 | 740 | 5.38 | 0.1 | 138 | 1.7 | 4.1 | 0.7 | 0.63 | 2.92 | 30.3 | 1.82 | 0.07 | 1.0 | 79.3 |
| 107319 | | 23.3 | 2.60 | 1.81 | 4.84 | 1.04 | 1.30 | 0.1 | 48 | 195 | 710 | 6.00 | < 0.1 | 127 | 2.1 | 4.3 | 0.9 | 0.32 | 2.02 | 27.3 | 2.60 | 0.04 | 0.9 | 78.0 |
| 107320 | | 35.7 | > 3.00 | 2.57 | 6.22 | 1.27 | 1.61 | 0.2 | 68 | 341 | 1320 | 7.58 | 1.3 | 238 | 2.8 | 7.4 | 1.1 | 0.28 | 3.08 | 47.8 | 3.06 | 0.06 | 1.1 | 123 |
| 107321 | < 5 | 35.5 | > 3.00 | 1.72 | 6.36 | 1.27 | 0.88 | 0.1 | 52 | 269 | 948 | 6.01 | 2.0 | 198 | 1.9 | 7.0 | 0.8 | 0.29 | 2.36 | 36.1 | 2.46 | 0.04 | 0.9 | 79.2 |
| 107322 | | 34.5 | > 3.00 | 1.97 | 6.13 | 1.09 | 1.32 | 0.2 | 60 | 306 | 1220 | 6.83 | 2.3 | 199 | 2.5 | 6.7 | 1.0 | 0.29 | 2.50 | 38.1 | 3.45 | 0.08 | 1.1 | 91.6 |
| 107323 | | 46.5 | > 3.00 | 2.08 | 3.74 | 0.68 | 0.91 | < 0.1 | 189 | 552 | 1020 | 7.44 | 4.4 | 261 | 1.5 | 6.6 | 0.6 | < 0.05 | 1.94 | 45.4 | 1.99 | 0.13 | 1.3 | 98.8 |
| 107324 | < 5 | 47.4 | > 3.00 | 2.96 | 6.70 | 1.64 | 0.63 | 0.3 | 90 | 429 | 2010 | 8.11 | 2.3 | 353 | 3.0 | 9.8 | 1.3 | 0.11 | 6.19 | 56.2 | 4.86 | < 0.02 | 1.1 | 117 |
| 107325 | | 16.4 | 0.81 | 1.33 | 1.96 | 0.39 | 3.40 | 0.3 | 76 | 181 | 826 | 3.38 | < 0.1 | 127 | 2.4 | 5.2 | 0.9 | 0.16 | 1.94 | 17.5 | 2.31 | 0.09 | 2.3 | 95.1 |
| 107326 | | 46.5 | 2.90 | 2.66 | 5.61 | 1.09 | 1.87 | 0.2 | 118 | 464 | 1850 | 7.55 | < 0.1 | 318 | 3.6 | 11.0 | 1.5 | < 0.05 | 2.37 | 50.5 | 5.29 | 0.11 | 1.3 | 134 |
| 107327 | < 5 | 51.1 | 2.92 | 3.12 | 6.33 | 1.36 | 1.47 | 0.1 | 126 | 529 | 1470 | 8.43 | 2.5 | 329 | 3.9 | 11.1 | 1.5 | < 0.05 | 3.25 | 51.4 | 4.62 | 0.14 | 1.5 | 128 |
| 107328 | | 27.3 | 2.54 | 2.13 | 5.75 | 1.48 | 2.09 | 0.1 | 95 | 152 | 798 | 5.91 | 2.3 | 116 | 2.2 | 4.1 | 0.9 | < 0.05 | 2.23 | 28.6 | 2.60 | 0.07 | 0.9 | 86.5 |
| 107329 | | 30.4 | > 3.00 | 1.80 | 6.67 | 1.58 | 1.28 | < 0.1 | 69 | 135 | 549 | 5.40 | 1.1 | 109 | 1.9 | 4.0 | 0.7 | < 0.05 | 2.37 | 24.9 | 2.13 | 0.07 | 1.0 | 87.4 |
| 107330 | < 5 | 30.8 | > 3.00 | 1.67 | 7.05 | 1.44 | 1.15 | 0.1 | 52 | 116 | 872 | 6.10 | 0.4 | 95.4 | 2.1 | 3.7 | 0.8 | < 0.05 | 2.22 | 27.7 | 2.79 | 0.10 | 0.7 | 86.2 |
| 107331 | | 32.1 | 2.94 | 2.03 | 6.85 | 1.76 | 1.63 | 0.1 | 133 | 147 | 775 | 6.12 | 2.3 | 117 | 2.5 | 7.4 | 1.0 | < 0.05 | 2.46 | 29.4 | 3.10 | 0.06 | 1.0 | 100.0 |
| 107332 | | 26.8 | 2.51 | 1.54 | 5.39 | 1.16 | 3.06 | 0.2 | 142 | 85.7 | 949 | 5.89 | 0.2 | 86.2 | 4.6 | 5.1 | 2.0 | < 0.05 | 2.09 | 23.7 | 7.57 | 0.07 | 1.5 | 105 |
| 107333 | < 5 | 29.9 | 2.72 | 1.77 | 4.45 | 0.98 | 2.15 | 0.3 | 163 | 169 | 1740 | 6.76 | 1.6 | 142 | 3.0 | 5.1 | 1.2 | < 0.05 | 1.67 | 34.8 | 4.06 | 0.11 | 1.3 | 153 |
| 107334 | | 28.6 | 2.51 | 1.87 | 5.61 | 1.27 | 1.58 | 0.2 | 85 | 157 | 746 | 6.14 | 2.0 | 100 | 2.4 | 4.4 | 0.9 | < 0.05 | 2.40 | 29.4 | 2.41 | 0.04 | 0.7 | 116 |
| 107335 | | 24.3 | 2.04 | 1.40 | 4.55 | 1.10 | 2.05 | 0.2 | 99 | 71.7 | 737 | 4.35 | 0.1 | 66.4 | 2.7 | 4.3 | 1.1 | < 0.05 | 1.55 | 16.8 | 4.65 | 0.06 | 0.9 | 109 |
| 107336 | < 5 | 26.1 | 1.95 | 2.34 | 3.90 | 0.81 | 4.88 | 1.0 | 186 | 154 | 3660 | 9.93 | < 0.1 | 129 | 8.2 | 9.9 | 3.5 | < 0.05 | 1.99 | 36.1 | 15.8 | 0.57 | 2.1 | 285 |
| 107337 | | 48.9 | 2.63 | 2.66 | 5.50 | 0.92 | 2.60 | 0.4 | 209 | 136 | 2990 | 10.3 | 0.3 | 146 | 6.9 | 11.8 | 2.9 | < 0.05 | 1.66 | 52.2 | 12.6 | 0.62 | 1.5 | 192 |
| 107338 | | 37.8 | 2.53 | 2.58 | 5.64 | 1.67 | 2.38 | 0.4 | 153 | 93.8 | 1800 | 6.39 | 0.3 | 75.8 | 3.6 | 7.8 | 1.4 | < 0.05 | 1.90 | 29.7 | 5.54 | 0.15 | 1.0 | 149 |
| 107339 | < 5 | 42.1 | 2.26 | 1.95 | 5.06 | 1.14 | 1.60 | 0.5 | 135 | 216 | 2780 | 8.04 | 0.7 | 154 | 4.8 | 7.6 | 2.1 | < 0.05 | 1.59 | 29.4 | 13.4 | 0.30 | 1.4 | 131 |
| 107340 | | 0.7 | 0.08 | 7.51 | 0.15 | 0.04 | 18.7 | 0.6 | 196 | 12.3 | 3210 | 5.77 | < 0.1 | 12.7 | 8.1 | 0.9 | 3.7 | < 0.05 | 0.47 | 16.6 | 15.2 | 0.16 | 2.6 | 118 |
| 107341 | | 26.5 | 2.10 | 1.47 | 6.01 | 1.70 | 1.94 | 0.2 | 64 | 92.1 | 763 | 4.74 | 2.3 | 55.3 | 1.9 | 2.3 | 0.8 | < 0.05 | 2.11 | 18.7 | 2.32 | 0.09 | 1.4 | 97.9 |
| 107342 | < 5 | 22.9 | 2.71 | 1.49 | 6.72 | 1.82 | 1.45 | 0.1 | 63 | 85.5 | 699 | 5.14 | 2.4 | 61.1 | 1.7 | 2.8 | 0.7 | < 0.05 | 1.90 | 23.1 | 1.68 | 0.03 | 0.5 | 70.8 |
| 107343 | | 20.2 | 2.21 | 0.93 | 5.64 | 1.43 | 1.41 | < 0.1 | 54 | 61.0 | 450 | 3.22 | 3.0 | 30.7 | 1.2 | 1.2 | 0.4 | < 0.05 | 1.67 | 10.4 | 0.86 | 0.05 | 0.6 | 47.6 |
| 107344 | | 24.3 | 2.47 | 1.06 | 7.23 | 1.91 | 1.47 | 0.1 | 60 | 54.6 | 480 | 3.62 | 0.4 | 32.3 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.57 | 12.2 | 0.92 | 0.04 | 0.6 | 40.8 |
| 107345 | < 5 | 11.4 | 2.58 | 0.60 | 6.73 | 1.91 | 1.47 | 0.1 | 46 | 38.9 | 284 | 2.73 | 1.8 | 14.5 | 1.1 | 1.2 | 0.4 | < 0.05 | 1.01 | 5.5 | 1.11 | 0.03 | 0.2 | 24.5 |
| 107346 | | 23.6 | 2.05 | 1.04 | 5.72 | 1.50 | 3.98 | 0.6 | 99 | 46.5 | 1460 | 4.91 | < 0.1 | 21.6 | 8.4 | 3.0 | 3.8 | < 0.05 | 1.12 | 12.2 | 13.7 | 0.22 | 2.2 | 88.7 |
| 107347 | | 22.1 | 2.26 | 1.13 | 6.76 | 1.94 | 1.74 | 0.1 | 69 | 61.6 | 471 | 3.86 | 4.0 | 36.3 | 1.6 | 1.4 | 0.6 | < 0.05 | 1.85 | 11.7 | 1.61 | 0.06 | 0.4 | 70.0 |
| 107348 | < 5 | 27.3 | 2.30 | 1.43 | 7.11 | 2.03 | 1.59 | 0.1 | 68 | 86.4 | 538 | 4.23 | 4.0 | 49.2 | 1.4 | 1.5 | 0.5 | < 0.05 | 2.00 | 16.0 | 1.09 | 0.06 | 0.1 | 55.3 |
| 107349 | | 24.8 | 2.14 | 1.42 | 6.64 | 1.87 | 1.61 | 0.1 | 83 | 90.3 | 590 | 4.59 | 3.5 | 48.7 | 1.8 | 2.6 | 0.7 | < 0.05 | 1.77 | 15.5 | 1.63 | 0.04 | 0.6 | 62.5 |
| 107350 | | 19.9 | 2.33 | 1.07 | 6.5 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107351 | < 5 | 23.2 | 2.17 | 1.23 | 6.60 | 1.90 | 1.60 | 0.2 | 72 | 91.3 | 598 | 4.14 | 4.9 | 44.5 | 1.6 | 1.5 | 0.6 | < 0.05 | 1.88 | 16.3 | 1.32 | 0.09 | 0.6 | 67.8 |
| 107352 | | 24.2 | 2.16 | 1.21 | 6.82 | 1.84 | 1.98 | < 0.1 | 79 | 46.4 | 511 | 4.28 | 1.8 | 38.5 | 2.9 | 3.0 | 1.2 | < 0.05 | 2.01 | 12.5 | 3.26 | 0.10 | 0.8 | 68.7 |
| 107353 | | 16.6 | 2.56 | 0.81 | 6.66 | 1.76 | 1.60 | 0.1 | 59 | 60.6 | 382 | 3.60 | 6.8 | 30.6 | 1.6 | 1.2 | 0.5 | < 0.05 | 1.12 | 7.7 | 0.94 | 0.02 | 0.3 | 36.4 |
| 107354 | < 5 | 39.4 | 0.57 | 3.39 | 2.82 | 0.45 | 8.56 | 0.9 | 248 | 191 | 9910 | 12.9 | < 0.1 | 116 | 18.9 | 30.5 | 8.8 | < 0.05 | 1.89 | 29.9 | 54.0 | 0.45 | 5.6 | 257 |
| 107356 | | 21.2 | 2.30 | 1.16 | 6.72 | 1.96 | 2.49 | 0.2 | 121 | 45.8 | 1620 | 6.51 | < 0.1 | 50.6 | 4.1 | 2.5 | 1.8 | < 0.05 | 1.71 | 22.1 | 5.42 | 0.12 | 0.9 | 92.8 |
| 107357 | | 18.1 | 2.29 | 1.76 | 6.32 | 1.85 | 3.46 | 0.1 | 74 | 65.7 | 1070 | 4.32 | 3.5 | 34.8 | 2.1 | 2.8 | 0.8 | < 0.05 | 1.51 | 13.4 | 2.63 | 0.11 | 0.5 | 57.0 |
| 107358 | 5 | 25.5 | 2.98 | 1.54 | 6.85 | 1.62 | 1.58 | 0.1 | 82 | 109 | 752 | 6.04 | 3.0 | 71.2 | 1.8 | 2.6 | 0.7 | < 0.05 | 2.31 | 24.6 | 2.14 | 0.11 | 0.8 | 101 |
| 107359 | | 59.5 | 2.88 | 2.76 | 6.10 | 1.79 | 2.57 | 0.3 | 96 | 91.4 | 1650 | 7.88 | 1.6 | 60.3 | 2.7 | 6.4 | 1.1 | < 0.05 | 2.36 | 29.8 | 5.17 | 0.16 | 1.3 | 169 |
| 107360 | | 27.2 | 2.65 | 2.45 | 6.18 | 1.60 | 3.40 | 0.3 | 198 | 92.7 | 1220 | 5.89 | 2.7 | 70.8 | 3.6 | 4.7 | 1.4 | < 0.05 | 1.65 | 26.2 | 4.60 | 0.10 | 0.8 | 122 |
| 107361 | < 5 | 33.6 | > 3.00 | 2.14 | 7.02 | 1.46 | 1.83 | 0.3 | 158 | 104 | 1490 | 6.83 | 3.5 | 87.5 | 3.2 | 6.5 | 1.3 | < 0.05 | 1.81 | 34.3 | 3.66 | 0.08 | 0.1 | 116 |
| 107362 | | 51.4 | 2.68 | 1.81 | 6.11 | 1.21 | 2.88 | 0.6 | 139 | 70.0 | 2930 | 7.59 | 0.2 | 71.1 | 7.3 | 13.2 | 3.1 | < 0.05 | 1.59 | 26.3 | 13.5 | 0.16 | 1.6 | 244 |
| 107363 | | 27.2 | 2.62 | 2.19 | 4.90 | 0.89 | 2.81 | 0.2 | 139 | 91.9 | 1240 | 5.95 | 2.2 | 79.2 | 2.9 | 8.7 | 1.1 | < 0.05 | 1.60 | 27.4 | 3.71 | 0.13 | 0.5 | 150 |
| 107364 | < 5 | 19.9 | 2.00 | 1.25 | 4.55 | 1.04 | 1.91 | 0.1 | 86 | 105 | 522 | 4.23 | 0.2 | 69.7 | 2.0 | 2.7 | 0.7 | < 0.05 | 1.82 | 18.6 | 1.92 | 0.04 | 1.0 | 67.3 |
| 107365 | | 28.4 | 2.77 | 1.65 | 5.84 | 1.35 | 1.93 | 0.1 | 114 | 159 | 900 | 5.82 | 0.8 | 99.7 | 2.6 | 5.5 | 1.0 | < 0.05 | 1.98 | 26.6 | 3.37 | 0.10 | 0.6 | 85.7 |
| 107366 | | 16.7 | > 3.00 | 1.67 | 5.18 | 0.78 | 2.41 | 0.2 | 111 | 87.2 | 1700 | 6.91 | 0.8 | 86.0 | 3.1 | 14.5 | 1.2 | < 0.05 | 1.58 | 40.7 | 3.81 | 0.05 | 1.1 | 113 |
| 107367 | < 5 | 32.8 | > 3.00 | 2.14 | 7.24 | 1.44 | 1.82 | 0.2 | 158 | 150 | 1510 | 7.90 | 1.3 | 118 | 3.7 | 4.7 | 1.5 | < 0.05 | 2.70 | 40.3 | 4.32 | 0.13 | 0.9 | 115 |
| 107368 | | 36.9 | > 3.00 | 1.83 | 7.38 | 1.42 | 1.76 | 0.1 | 140 | 141 | 1160 | 7.17 | 0.8 | 116 | 3.3 | 4.6 | 1.2 | < 0.05 | 2.44 | 36.4 | 3.70 | 0.10 | 0.9 | 91.3 |
| 107369 | | 34.4 | 2.98 | 2.11 | 6.61 | 1.60 | 1.70 | < 0.1 | 101 | 171 | 1110 | 6.47 | 0.5 | 135 | 2.6 | 5.9 | 1.0 | < 0.05 | 2.17 | 34.6 | 3.21 | 0.06 | 0.6 | 100 |
| 107370 | < 5 | 25.1 | 2.52 | 2.04 | 5.74 | 1.01 | 1.76 | 0.1 | 90 | 227 | 1660 | 6.99 | 0.8 | 138 | 2.9 | 3.8 | 1.1 | < 0.05 | 2.70 | 35.9 | 3.12 | 0.05 | 0.9 | 102 |
| 107371 | | 41.5 | 2.46 | 2.80 | 5.61 | 1.31 | 1.64 | 0.2 | 91 | 321 | 1840 | 7.93 | 0.2 | 219 | 2.8 | 7.3 | 1.2 | < 0.05 | 2.81 | 43.9 | 4.12 | 0.09 | 1.4 | 134 |
| 107372 | | 38.0 | > 3.00 | 2.11 | 6.03 | 1.26 | 1.39 | 0.2 | 78 | 239 | 1540 | 6.58 | < 0.1 | 185 | 2.5 | 5.9 | 1.0 | < 0.05 | 2.33 | 40.5 | 3.90 | 0.07 | 0.9 | 108 |
| 107373 | < 5 | 36.3 | > 3.00 | 2.17 | 4.75 | 0.41 | 0.70 | 0.1 | 197 | 647 | 1600 | 8.93 | 3.7 | 393 | 1.7 | 7.6 | 0.7 | < 0.05 | 1.28 | 63.5 | 2.89 | 0.06 | 0.8 | 105 |
| 107374 | | 53.1 | 2.27 | 3.58 | 4.76 | 1.24 | 3.04 | 0.3 | 176 | 374 | 2250 | 8.97 | 0.3 | 358 | 4.4 | 10.1 | 1.8 | < 0.05 | 2.38 | 52.4 | 7.91 | 0.24 | 1.3 | 195 |
| 107375 | | 16.4 | > 3.00 | 2.23 | 6.69 | 0.51 | 1.16 | 0.1 | 37 | 50.6 | 1090 | 8.67 | 1.3 | 128 | 1.3 | 4.5 | 0.5 | < 0.05 | 1.20 | 57.9 | 1.25 | < 0.02 | 0.5 | 206 |
| 107376 | < 5 | 112 | > 3.00 | 5.22 | > 10.0 | 2.09 | 2.72 | 0.3 | 136 | 752 | 1840 | 17.7 | 0.3 | 533 | 7.1 | 20.6 | 3.0 | < 0.05 | 4.57 | 88.3 | 12.7 | 0.27 | 2.0 | 239 |
| 107377 | | 33.7 | > 3.00 | 1.84 | 6.76 | 1.73 | 1.42 | < 0.1 | 52 | 171 | 519 | 5.93 | 0.3 | 146 | 2.2 | 5.1 | 0.9 | < 0.05 | 2.19 | 28.6 | 2.60 | 0.08 | 0.9 | 78.8 |
| 107378 | | 34.4 | 2.90 | 2.79 | 5.74 | 0.88 | 1.73 | 0.2 | 69 | 362 | 6520 | 7.48 | 1.3 | 263 | 2.1 | 6.1 | 0.8 | < 0.05 | 2.25 | 45.9 | 2.38 | 0.06 | 0.5 | 113 |
| 107379 | < 5 | 31.7 | 2.74 | 1.59 | 5.54 | 1.13 | 1.54 | 0.1 | 74 | 272 | 967 | 6.01 | 2.7 | 162 | 2.1 | 4.8 | 0.8 | 1.20 | 2.41 | 35.2 | 2.71 | 0.12 | 1.7 | 70.6 |
| 107380 | | 39.0 | > 3.00 | 2.31 | 6.11 | 1.16 | 1.32 | 0.2 | 110 | 373 | 1250 | 7.83 | 3.0 | 240 | 3.0 | 7.1 | 1.3 | 0.55 | 3.30 | 45.7 | 4.64 | 0.11 | 1.9 | 103 |
| 107381 | | 36.0 | > 3.00 | 2.61 | 6.67 | 1.01 | 0.69 | 0.2 | 74 | 430 | 927 | 8.72 | 2.0 | 267 | 1.6 | 7.2 | 0.6 | 0.18 | 3.14 | 48.8 | 1.86 | 0.05 | 1.0 | 85.4 |
| 107382 | < 5 | 72.1 | 1.53 | 3.81 | 3.58 | 0.94 | 0.90 | 0.1 | 223 | 202 | 984 | 9.31 | 4.5 | 137 | 5.4 | 12.1 | 2.0 | < 0.05 | 1.37 | 58.6 | 3.80 | 0.17 | 1.4 | 103 |
| 107383 | | 31.9 | > 3.00 | 1.74 | 6.13 | 0.90 | 0.67 | < 0.1 | 66 | 234 | 501 | 7.32 | 2.2 | 151 | 1.8 | 6.3 | 0.7 | 0.08 | 2.83 | 35.5 | 2.47 | 0.11 | 0.8 | 82.3 |
| 107384 | | 35.2 | 2.49 | 2.26 | 5.59 | 1.34 | 1.72 | 0.3 | 86 | 198 | 1750 | 8.98 | 0.2 | 166 | 3.3 | 6.5 | 1.3 | 0.15 | 2.80 | 45.6 | 4.10 | 0.06 | 1.2 | 156 |
| 107385 | < 5 | 40.6 | 2.60 | 1.91 | 6.18 | 1.04 | 1.09 | 0.2 | 65 | 167 | 1150 | 7.98 | 2.4 | 119 | 2.8 | 6.5 | 1.1 | 0.18 | 1.73 | 42.6 | 4.10 | 0.07 | 2.2 | 90.1 |
| 107386 | | 28.0 | 1.88 | 1.55 | 4.25 | 0.13 | 1.55 | 0.1 | 106 | 165 | 1610 | 14.1 | < 0.1 | 92.1 | 5.7 | 8.0 | 2.4 | 0.17 | 0.70 | 61.5 | 9.02 | 0.42 | 1.8 | 128 |
| 107387 | | 23.7 | 2.24 | 1.99 | 4.99 | 0.82 | 1.78 | 0.3 | 71 | 193 | 1360 | 7.33 | 0.5 | 138 | 1.9 | 4.5 | 0.7 | 0.18 | 4.24 | 43.4 | 2.37 | 0.05 | 1.0 | 90.1 |
| 107388 | 6 | 21.6 | 2.08 | 1.59 | 4.71 | 0.98 | 1.90 | 0.4 | 71 | 184 | 704 | 5.69 | 1.4 | 114 | 1.9 | 3.4 | 0.7 | 0.48 | 2.55 | 29.7 | 2.05 | 0.06 | 1.3 | 104 |
| 107389 | | 30.4 | > 3.00 | 2.30 | 5.84 | 0.80 | 1.48 | 0.1 | 111 | 335 | 878 | 8.45 | 3.0 | 243 | 3.0 | 7.1 | 1.1 | 0.10 | 2.16 | 48.0 | 2.40 | 0.04 | 1.4 | 106 |
| 107390 | | 28.4 | 2.29 | 3.90 | 4.96 | 0.60 | 1.76 | 0.1 | 123 | 307 | 1650 | 10.1 | 3.2 | 225 | 2.4 | 6.3 | 0.9 | < 0.05 | 2.73 | 59.2 | 2.49 | 0.03 | 1.0 | 106 |
| 107391 | < 5 | 30.8 | > 3.00 | 2.30 | 5.76 | 1.00 | 1.18 | 0.2 | 104 | 345 | 1050 | 7.66 | 2.6 | 230 | 2.3 | 6.6 | 0.9 | < 0.05 | 3.36 | 45.6 | 2.71 | 0.09 | 1.1 | 101 |
| 107392 | | 34.1 | > 3.00 | 1.86 | 3.60 | 0.73 | 0.80 | 0.2 | 181 | 410 | 1490 | 8.00 | 3.6 | 238 | 1.6 | 7.7 | 0.6 | < 0.05 | 2.68 | 50.9 | 2.04 | 0.09 | 0.6 | 100 |
| 107393 | | 42.5 | > 3.00 | 2.00 | 6.06 | 0.65 | 0.63 | < 0.1 | 80 | 377 | 597 | 9.02 | 2.4 | 234 | 1.5 | 6.5 | 0.6 | < 0.05 | 2.79 | 43.4 | 2.60 | 0.08 | 0.7 | 88.6 |
| 107394 | < 5 | 45.2 | 2.87 | 2.02 | 5.91 | 1.26 | 0.67 | < 0.1 | 35 | 257 | 744 | 6.82 | 0.6 | 227 | 2.7 | 7.1 | 1.1 | < 0.05 | 3.27 | 41.9 | 3.27 | 0.04 | 0.8 | 82.0 |
| 107395 | | 49.6 | 2.89 | 1.92 | 5.79 | 1.09 | 1.04 | 0.2 | 58 | 313 | 808 | 6.99 | 1.8 | 239 | 2.6 | 6.3 | 1.1 | < 0.05 | 2.66 | 39.3 | 4.35 | 0.13 | 1.0 | 94.0 |
| 107396 | | 37.2 | 2.80 | 1.54 | 5.45 | 1.00 | 1.15 | 0.2 | 41 | 252 | 535 | 5.65 | 1.8 | 176 | 2.4 | 6.7 | 1.0 | < 0.05 | 1.94 | 28.7 | 3.55 | 0.13 | 0.9 | 71.7 |
| 107397 | < 5 | 33.3 | > 3.00 | 3.84 | 5.54 | 0.60 | 1.40 | 0.1 | 73 | 830 | 1180 | 10.5 | 1.0 | 469 | 2.3 | 13.5 | 0.9 | < 0.05 | 4.56 | 69.2 | 2.58 | < 0.02 | 1.0 | 105 |
| 107398 | | 2.1 | 0.02 | 7.59 | 0.03 | 0.02 | 15.8 | 0.7 | 20 | 20.4 | 6350 | 9.60 | < 0.1 | 55.0 | 17.9 | 0.1 | 9.8 | < 0.05 | 0.42 | 11.6 | 55.6 | < 0.02 | 6.1 | 177 |
| 107399 | | 98.3 | 2.27 | 2.82 | 4.50 | 0.96 | 1.56 | 0.2 | 126 | 473 | 2070 | 7.36 | 2.6 | 334 | 3.8 | 12.3 | 1.7 | < 0.05 | 1.89 | 46.8 | 6.37 | 0.13 | 1.7 | 172 |
| 107400 | < 5 | 29.3 | > 3.00 | 1.37 | 5.55 | 0.49 | 1.02 | 0.5 | 77 | 436 | 1040 | 7.89 | 1.9 | 235 | 3.7 | 6.7 | 1.6 | < 0.05 | 1.12 | 37.2 | 6.77 | 0.23 | 1.2 | 236 |
| 107401 | | 44.9 | 2.96 | 2.37 | 5.77 | 1.22 | 1.46 | 0.2 | 102 | 274 | 1410 | 7.29 | 1.9 | 222 | 2.5 | 7.1 | 1.0 | < 0.05 | 2.36 | 44.5 | 3.22 | 0.12 | 0.8 | 108 |
| 107402 | | 24.0 | 2.28 | 1.27 | 4.98 | 0.95 | 2.03 | 0.1 | 111 | 123 | 1090 | 6.81 | 0.2 | 74.1 | 2.3 | 3.9 | 0.9 | < 0.05 | 1.95 | 21.4 | 3.52 | 0.06 | 1.0 | 94.2 |
| 107403 | 6 | 22.8 | 2.56 | 1.37 | 3.65 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107404 | | 35.3 | 2.96 | 1.38 | 6.05 | 1.05 | 1.23 | 0.2 | 145 | 117 | 1290 | 7.74 | 3.5 | 79.9 | 2.9 | 3.7 | 1.2 | < 0.05 | 2.29 | 40.8 | 3.74 | 0.38 | 1.0 | 86.7 |
| 107405 | | 26.2 | 2.17 | 0.80 | 4.32 | 0.60 | 3.14 | 0.1 | 155 | 70.5 | 900 | 7.10 | < 0.1 | 37.2 | 4.8 | 3.4 | 2.2 | < 0.05 | 1.16 | 20.7 | 12.2 | 0.17 | 1.4 | 69.6 |
| 107406 | 5 | 29.1 | 2.56 | 2.29 | 5.21 | 0.75 | 1.67 | 0.1 | 143 | 101 | 1520 | 7.62 | 1.2 | 99.2 | 3.0 | 5.2 | 1.2 | < 0.05 | 2.45 | 39.4 | 3.99 | 0.04 | 0.8 | 110 |
| 107407 | | 29.1 | 2.45 | 2.41 | 4.72 | 1.10 | 3.39 | 0.3 | 169 | 137 | 1890 | 7.56 | 0.4 | 126 | 3.7 | 5.7 | 1.5 | < 0.05 | 1.89 | 38.8 | 4.85 | 0.12 | 0.9 | 146 |
| 107408 | | 17.7 | 2.22 | 1.35 | 3.95 | 0.62 | 2.87 | 0.2 | 78 | 110 | 1520 | 6.16 | < 0.1 | 114 | 2.8 | 4.2 | 1.1 | < 0.05 | 1.44 | 35.1 | 3.70 | 0.10 | 0.9 | 100 |
| 107409 | 104 | 22.8 | 2.17 | 1.59 | 4.54 | 0.93 | 3.12 | 0.3 | 124 | 64.9 | 1460 | 6.16 | < 0.1 | 68.4 | 3.2 | 3.5 | 1.3 | < 0.05 | 2.05 | 24.8 | 4.95 | 0.07 | 1.0 | 153 |
| 107410 | | 17.3 | 1.91 | 2.07 | 3.95 | 0.37 | 2.73 | 0.5 | 137 | 92.9 | 2600 | 10.3 | 1.0 | 102 | 3.6 | 4.5 | 1.6 | < 0.05 | 1.38 | 42.8 | 6.40 | 0.12 | 1.4 | 183 |
| 107411 | | 27.5 | 2.24 | 2.04 | 4.94 | 1.22 | 3.40 | 0.4 | 151 | 59.3 | 2170 | 7.02 | 0.1 | 73.3 | 4.8 | 9.1 | 2.0 | < 0.05 | 1.71 | 30.8 | 7.35 | 0.20 | 1.0 | 168 |
| 107412 | 6 | 18.5 | 2.20 | 1.29 | 4.63 | 0.86 | 2.21 | 0.2 | 74 | 109 | 631 | 3.90 | 5.2 | 33.3 | 1.9 | 1.8 | 0.7 | < 0.05 | 1.33 | 12.3 | 2.03 | 0.08 | 0.7 | 61.9 |
| 107413 | | 17.2 | 2.28 | 0.79 | 6.08 | 1.60 | 1.22 | 0.1 | 55 | 53.4 | 317 | 3.04 | 0.4 | 22.7 | 0.9 | 1.1 | 0.3 | < 0.05 | 1.49 | 8.0 | 0.82 | 0.04 | 0.3 | 33.4 |
| 107414 | | 27.9 | 1.60 | 1.22 | 5.10 | 1.54 | 1.56 | 0.1 | 81 | 106 | 802 | 5.55 | 1.0 | 72.4 | 2.0 | 2.8 | 0.7 | < 0.05 | 2.53 | 25.8 | 2.04 | 0.08 | 0.6 | 74.3 |
| 107415 | 7 | 13.0 | 0.58 | 1.48 | 2.10 | 0.54 | 3.18 | 1.0 | 174 | 63.8 | 7000 | 13.1 | 0.1 | 61.2 | 4.6 | 3.5 | 1.9 | < 0.05 | 1.27 | 49.9 | 8.73 | 0.07 | 1.8 | 213 |
| 107416 | | 26.2 | 2.61 | 1.08 | 6.48 | 1.38 | 1.02 | 0.1 | 65 | 60.2 | 452 | 5.18 | 2.1 | 53.1 | 1.5 | 2.1 | 0.6 | < 0.05 | 2.02 | 25.0 | 1.73 | 0.03 | 0.8 | 57.9 |
| 107417 | | 23.2 | 2.00 | 1.11 | 6.00 | 1.62 | 1.27 | 0.2 | 65 | 69.7 | 623 | 3.94 | 3.4 | 46.8 | 1.6 | 1.5 | 0.6 | < 0.05 | 2.00 | 16.0 | 1.28 | 0.06 | 0.5 | 61.4 |
| 107418 | < 5 | 25.1 | 2.42 | 1.45 | 6.66 | 1.92 | 1.55 | 0.1 | 62 | 93.1 | 599 | 4.68 | 3.8 | 55.0 | 1.6 | 1.7 | 0.6 | < 0.05 | 1.95 | 17.9 | 1.35 | 0.06 | 0.4 | 65.2 |
| 107419 | | 17.2 | 1.90 | 1.00 | 5.57 | 1.57 | 1.08 | < 0.1 | 51 | 63.7 | 390 | 3.21 | 3.0 | 37.0 | 1.0 | 1.1 | 0.4 | < 0.05 | 1.64 | 10.6 | 0.81 | 0.03 | 0.3 | 42.1 |
| 107420 | | 18.7 | 2.48 | 1.08 | 6.49 | 1.86 | 1.51 | 0.1 | 65 | 61.8 | 634 | 3.99 | 4.9 | 37.6 | 1.6 | 1.5 | 0.6 | < 0.05 | 1.60 | 15.3 | 1.52 | 0.04 | 0.5 | 51.2 |
| 107421 | < 5 | 11.8 | 2.39 | 0.63 | 4.43 | 1.43 | 1.04 | 0.1 | 46 | 46.1 | 254 | 2.14 | 5.8 | 18.0 | 0.9 | 1.0 | 0.3 | < 0.05 | 1.31 | 6.0 | 0.55 | < 0.02 | 0.3 | 27.6 |
| 107422 | | 7.4 | 2.14 | 0.30 | 3.72 | 0.36 | 8.30 | 0.7 | 306 | 59.3 | 3140 | 8.51 | < 0.1 | 25.7 | 20.0 | 6.2 | 8.7 | < 0.05 | 0.73 | 21.1 | 33.3 | 0.34 | 4.1 | 126 |
| 107423 | | 36.9 | 1.80 | 1.49 | 5.51 | 1.46 | 1.90 | 0.4 | 69 | 64.5 | 853 | 3.88 | 2.0 | 38.3 | 1.7 | 2.1 | 0.7 | < 0.05 | 1.98 | 13.9 | 3.13 | 0.06 | 1.8 | 134 |
| 107424 | < 5 | 16.6 | 1.58 | 1.04 | 4.98 | 1.13 | 2.34 | 0.1 | 51 | 56.0 | 412 | 3.24 | 1.0 | 30.0 | 1.2 | 1.1 | 0.4 | < 0.05 | 2.05 | 9.1 | 0.93 | 0.04 | 1.1 | 86.0 |
| 107425 | | 14.2 | 2.22 | 0.80 | 6.44 | 1.87 | 1.06 | < 0.1 | 15 | 43.0 | 235 | 2.43 | 2.0 | 20.5 | 1.1 | 1.0 | 0.4 | 0.08 | 2.45 | 6.3 | 0.80 | 0.08 | 0.4 | 30.9 |
| 107426 | | 10.8 | 2.33 | 0.61 | 5.96 | 1.66 | 1.15 | < 0.1 | 18 | 39.7 | 243 | 2.81 | 2.0 | 14.0 | 1.0 | 1.0 | 0.3 | < 0.05 | 1.51 | 5.2 | 0.72 | 0.04 | 0.3 | 31.7 |
| 107427 | < 5 | 28.4 | 1.73 | 1.05 | 5.82 | 1.60 | 1.25 | 0.2 | 74 | 75.9 | 996 | 4.98 | 4.5 | 38.8 | 1.4 | 1.7 | 0.5 | < 0.05 | 2.69 | 17.6 | 0.92 | 0.10 | 1.0 | 86.0 |
| 107428 | | 17.4 | 2.21 | 0.84 | 6.01 | 1.58 | 1.20 | < 0.1 | 56 | 61.2 | 410 | 3.59 | 5.1 | 31.4 | 1.2 | 1.3 | 0.4 | < 0.05 | 1.49 | 11.4 | 0.89 | 0.17 | 0.6 | 41.5 |
| 107429 | | 21.2 | 1.97 | 0.89 | 6.29 | 1.67 | 1.01 | 0.2 | 68 | 83.3 | 479 | 4.41 | 4.0 | 33.9 | 1.3 | 1.4 | 0.4 | < 0.05 | 1.65 | 15.6 | 0.88 | 0.05 | 0.5 | 68.4 |
| 107430 | < 5 | 17.0 | 2.36 | 1.01 | 6.18 | 1.74 | 1.37 | 0.1 | 53 | 70.8 | 522 | 3.76 | 4.4 | 36.0 | 1.5 | 1.4 | 0.5 | < 0.05 | 1.42 | 13.1 | 1.11 | 0.03 | 0.2 | 42.4 |
| 107431 | | 18.7 | 2.08 | 0.94 | 4.79 | 0.83 | 0.92 | 0.1 | 64 | 76.3 | 438 | 3.24 | 4.5 | 34.6 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.88 | 11.2 | 0.77 | 0.06 | 0.5 | 43.9 |
| 107432 | | 25.1 | 2.37 | 1.31 | 6.59 | 1.38 | 1.32 | 0.1 | 68 | 85.3 | 596 | 4.40 | 3.3 | 51.6 | 1.4 | 1.8 | 0.5 | < 0.05 | 2.03 | 17.9 | 1.20 | 0.05 | 0.6 | 61.4 |
| 107433 | < 5 | 45.6 | 1.37 | 2.51 | 4.56 | 0.84 | 7.51 | 0.6 | 197 | 57.4 | 3570 | 7.77 | < 0.1 | 45.0 | 13.3 | 7.2 | 5.9 | < 0.05 | 1.27 | 24.2 | 25.6 | 0.05 | 3.4 | 176 |
| 107434 | | 28.0 | 2.05 | 1.90 | 5.22 | 1.25 | 3.93 | 0.4 | 181 | 75.2 | 3530 | 7.26 | < 0.1 | 67.9 | 7.1 | 5.9 | 2.9 | < 0.05 | 1.95 | 32.8 | 10.2 | 0.13 | 1.3 | 151 |
| 107435 | | 24.1 | 2.70 | 1.31 | 6.30 | 1.73 | 1.52 | 0.1 | 104 | 87.0 | 713 | 5.23 | 4.3 | 60.0 | 2.3 | 2.9 | 0.9 | < 0.05 | 1.88 | 21.2 | 2.82 | 0.08 | 0.6 | 74.6 |
| 107436 | < 5 | 25.3 | 2.45 | 1.92 | 5.72 | 1.63 | 3.31 | 0.2 | 108 | 33.5 | 1190 | 5.35 | < 0.1 | 46.1 | 4.1 | 4.0 | 1.7 | < 0.05 | 1.59 | 19.2 | 6.32 | 0.10 | 0.8 | 105 |
| 107437 | | 25.5 | 1.66 | 1.34 | 3.90 | 0.96 | 4.63 | 1.2 | 202 | 74.7 | 5030 | 10.4 | < 0.1 | 55.1 | 10.9 | 17.1 | 4.5 | < 0.05 | 1.28 | 26.6 | 16.9 | 0.34 | 3.2 | 266 |
| 107438 | | 26.3 | 1.31 | 3.91 | 3.20 | 0.23 | 7.68 | 2.5 | 336 | 90.4 | 5910 | 10.7 | < 0.1 | 72.7 | 14.4 | 57.6 | 6.4 | < 0.05 | 0.82 | 38.8 | 28.0 | 0.38 | 3.0 | 422 |
| 107439 | < 5 | 103 | 1.96 | 4.19 | 4.00 | 1.61 | 2.47 | 0.9 | 192 | 375 | 3580 | 10.3 | 1.6 | 314 | 4.3 | 18.0 | 2.1 | < 0.05 | 3.85 | 47.4 | 15.4 | 0.11 | 1.4 | 348 |
| 107440 | | 45.4 | 2.78 | 2.53 | 5.98 | 1.51 | 2.11 | 0.2 | 153 | 280 | 914 | 7.23 | 3.4 | 200 | 3.1 | 7.8 | 1.2 | < 0.05 | 2.20 | 35.8 | 4.44 | 0.13 | 0.6 | 150 |
| 107441 | | 113 | 1.74 | 4.86 | 2.48 | 1.08 | 1.03 | 0.4 | 211 | 932 | 1440 | 10.0 | 4.0 | 622 | 2.5 | 37.1 | 1.1 | < 0.05 | 2.02 | 66.0 | 5.31 | 0.13 | 1.2 | 419 |
| 107442 | < 5 | 30.8 | > 3.00 | 2.24 | 6.19 | 1.42 | 2.79 | < 0.1 | 93 | 160 | 946 | 6.36 | 1.8 | 109 | 2.5 | 4.7 | 0.9 | < 0.05 | 2.18 | 33.5 | 2.51 | 0.07 | 0.4 | 95.0 |
| 107443 | | 9.1 | 0.31 | 2.13 | 0.79 | 0.25 | 9.10 | 0.5 | 639 | 32.5 | 5090 | 19.4 | < 0.1 | 53.9 | 6.2 | 1.8 | 2.7 | < 0.05 | 0.88 | 85.1 | 11.6 | 0.47 | 1.6 | 87.6 |
| 107444 | | 27.6 | > 3.00 | 1.87 | 6.09 | 1.42 | 2.40 | 0.2 | 121 | 119 | 925 | 6.71 | 2.2 | 94.0 | 2.6 | 4.0 | 1.0 | < 0.05 | 2.40 | 31.8 | 3.02 | 0.06 | 0.7 | 90.6 |
| 107445 | < 5 | 28.6 | 3.00 | 2.01 | 6.37 | 1.60 | 2.71 | 0.2 | 139 | 137 | 1100 | 6.84 | 4.1 | 104 | 3.0 | 4.2 | 1.2 | < 0.05 | 2.19 | 34.4 | 3.63 | 0.10 | 0.7 | 95.2 |
| 107446 | | 28.2 | 2.89 | 1.73 | 6.34 | 1.56 | 1.63 | 0.1 | 95 | 142 | 807 | 6.34 | 2.1 | 103 | 2.4 | 4.3 | 0.9 | < 0.05 | 2.35 | 28.2 | 2.69 | 0.10 | 0.7 | 89.5 |
| 107447 | | 44.5 | 2.78 | 1.40 | 5.39 | 0.80 | 0.99 | 0.2 | 128 | 176 | 1850 | 8.44 | 2.6 | 100 | 4.6 | 7.6 | 2.1 | < 0.05 | 1.17 | 24.6 | 15.4 | 0.29 | 1.3 | 93.2 |
| 107448 | < 5 | 39.2 | 2.71 | 1.77 | 5.32 | 0.87 | 1.29 | 0.2 | 98 | 239 | 1160 | 8.02 | 0.2 | 145 | 2.6 | 4.7 | 1.1 | < 0.05 | 1.50 | 26.9 | 5.78 | 0.09 | 0.4 | 83.2 |
| 107449 | | 33.4 | 2.86 | 1.56 | 3.67 | 0.68 | 1.45 | 0.3 | 116 | 338 | 936 | 6.13 | 5.2 | 198 | 1.6 | 5.1 | 0.6 | < 0.05 | 1.25 | 31.7 | 1.97 | 0.13 | 1.6 | 76.6 |
| 107450 | | 95.8 | 2.60 | 3.28 | 4.60 | 0.54 | 1.48 | 0.4 | 152 | 676 | 1210 | 8.37 | 3.4 | 432 | 5.0 | 19.2 | 2.2 | < 0.05 | 1.55 | 50.4 | 8.87 | 0.19 | 1.8 | 159 |
| 107451 | 5 | 29.0 | 2.89 | 1.71 | 5.32 | 0.82 | 1.79 | 0.5 | 81 | 297 | 1340 | 7.44 | 0.1 | 224 | 3.2 | 5.9 | 1.3 | 0.19 | 2.16 | 39.4 | 3.59 | 0.23 | 0.8 | 136 |
| 107452 | | 60.5 | 2.52 | 3.65 | 5.59 | 1.43 | 1.31 | 0.3 | 84 | 657 | 1900 | 9.71 | 0.2 | 511 | 3.4 | 12.3 | 1.4 | 0.14 | 2.72 | 60.5 | 7.15 | 0.25 | 1.0 | 212 |
| 107453 | | 39.1 | > 3.00 | 1.73 | 7.11 | 1.00 | 0.41 | 0.4 | 60 | 160 | 1430 | 10.2 | 0.3 | 160 | 1.6 | 5.8 | 0.6 | 0.40 | 2.74 | 66.9 | 1.45 | 0.22 | 0.3 | 193 |
| 107454 | < 5 | 30.0 | > 3.00 | 3.15 | 7.25 | 0.34 | 0.71 | 0.1 | 91 | 468 | 949 | 9.75 | 1.1 | 336 | 1.7 | 7.6 | 0.6 | 0.28 | 4.25 | 58.4 | 1.52 | 0.02 | 0.7 | 97.0 |
| 107455 | | 55.7 | > 3.00 | 2.34 | 6.74 | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107456 | | 53.2 | > 3.00 | 2.73 | 7.18 | 1.55 | 1.25 | 0.1 | 82 | 387 | 1190 | 7.73 | 2.3 | 282 | 2.4 | 9.0 | 1.0 | 0.18 | 2.98 | 46.9 | 3.67 | 0.04 | 0.7 | 112 |
| 107457 | < 5 | 49.5 | > 3.00 | 2.85 | 7.04 | 1.22 | 1.26 | 0.2 | 94 | 444 | 1410 | 8.14 | 2.2 | 311 | 2.3 | 9.9 | 0.9 | 0.05 | 3.35 | 53.2 | 2.70 | 0.09 | 0.4 | 123 |
| 107458 | | 33.8 | > 3.00 | 2.02 | 7.02 | 1.91 | 0.91 | < 0.1 | 81 | 185 | 1040 | 10.6 | 2.3 | 178 | 2.2 | 7.9 | 0.9 | < 0.05 | 3.38 | 57.5 | 2.56 | 0.03 | 0.2 | 99.8 |
| 107459 | | 32.1 | > 3.00 | 1.89 | 7.36 | 1.24 | 0.94 | < 0.1 | 40 | 226 | 617 | 6.62 | 1.4 | 171 | 1.8 | 5.6 | 0.7 | < 0.05 | 2.84 | 31.5 | 2.27 | 0.03 | 0.3 | 76.7 |
| 107460 | < 5 | 27.2 | > 3.00 | 1.55 | 3.63 | 0.61 | 0.69 | 0.1 | 192 | 295 | 1180 | 7.93 | 3.7 | 168 | 1.5 | 7.4 | 0.5 | < 0.05 | 2.01 | 42.5 | 1.68 | 0.03 | 0.1 | 83.4 |
| 107461 | | 28.5 | > 3.00 | 2.00 | 7.15 | 1.52 | 0.96 | 0.3 | 92 | 214 | 1890 | 10.8 | 1.4 | 174 | 2.7 | 7.1 | 1.1 | < 0.05 | 2.71 | 60.1 | 3.41 | 0.05 | < 0.1 | 121 |
| 107462 | | 28.8 | > 3.00 | 1.94 | 7.13 | 1.09 | 1.23 | < 0.1 | 48 | 170 | 1070 | 6.95 | 0.2 | 149 | 1.9 | 6.0 | 0.7 | < 0.05 | 2.84 | 35.9 | 2.15 | 0.03 | 0.5 | 91.2 |
| 107463 | < 5 | 31.4 | > 3.00 | 2.49 | 6.85 | 1.58 | 1.67 | 0.1 | 54 | 201 | 1300 | 7.58 | 0.4 | 168 | 2.3 | 5.6 | 0.9 | 0.05 | 2.58 | 41.5 | 2.71 | 0.04 | 0.4 | 94.5 |
| 107464 | | 38.9 | 2.82 | 2.34 | 6.22 | 1.20 | 0.61 | < 0.1 | 77 | 163 | 672 | 9.50 | 0.4 | 115 | 2.5 | 6.0 | 0.9 | < 0.05 | 3.16 | 37.6 | 2.33 | 0.12 | 0.4 | 91.0 |
| 107465 | | 24.8 | 2.86 | 1.68 | 5.53 | 1.00 | 1.53 | 0.7 | 116 | 140 | 3860 | 6.92 | 0.6 | 117 | 2.4 | 5.7 | 1.0 | 0.10 | 2.70 | 47.2 | 2.71 | < 0.02 | 0.8 | 148 |
| 107466 | < 5 | 13.9 | 1.34 | 1.19 | 3.51 | 1.13 | 0.80 | 1.0 | 115 | 203 | 511 | 16.0 | 1.4 | 79.9 | 1.5 | 2.4 | 0.6 | < 0.05 | 3.83 | 16.6 | 1.76 | 0.07 | 0.6 | 110 |
| 107467 | | 6.0 | 0.73 | 0.73 | 2.00 | 0.61 | 2.83 | 0.2 | 57 | 69.9 | 394 | 6.62 | 1.1 | 44.8 | 1.0 | 1.4 | 0.4 | < 0.05 | 1.77 | 8.8 | 0.94 | 0.03 | 2.0 | 45.5 |
| 107468 | | 24.3 | > 3.00 | 1.56 | 6.02 | 1.01 | 0.77 | 0.1 | 68 | 181 | 849 | 6.73 | 2.1 | 126 | 1.8 | 7.7 | 0.7 | < 0.05 | 2.66 | 33.6 | 2.24 | 0.08 | 0.6 | 79.4 |
| 107469 | < 5 | 27.7 | > 3.00 | 1.84 | 6.46 | 1.55 | 0.72 | 0.1 | 61 | 173 | 1060 | 6.68 | 2.4 | 133 | 3.0 | 6.7 | 1.1 | < 0.05 | 2.35 | 38.0 | 2.88 | 0.05 | 0.5 | 81.3 |
| 107470 | | 22.2 | 2.35 | 1.47 | 3.09 | 0.65 | 1.38 | 0.2 | 147 | 199 | 1240 | 6.20 | 2.9 | 128 | 1.5 | 4.4 | 0.6 | < 0.05 | 2.54 | 33.6 | 1.44 | 0.09 | 0.7 | 101 |
| 107471 | | 24.9 | > 3.00 | 1.80 | 5.91 | 0.85 | 0.90 | < 0.1 | 70 | 229 | 930 | 7.18 | 2.1 | 156 | 1.7 | 7.7 | 0.7 | < 0.05 | 2.91 | 39.2 | 2.11 | 0.07 | 0.4 | 76.4 |
| 107472 | < 5 | 28.6 | > 3.00 | 1.97 | 6.79 | 1.26 | 0.86 | < 0.1 | 47 | 211 | 1300 | 8.27 | < 0.1 | 175 | 2.8 | 7.6 | 1.1 | < 0.05 | 2.70 | 44.6 | 3.03 | 0.03 | 0.7 | 89.9 |
| 107473 | | 34.4 | > 3.00 | 1.42 | 6.20 | 0.67 | 0.59 | 0.1 | 82 | 133 | 1130 | 9.54 | 1.5 | 122 | 2.3 | 9.5 | 0.9 | < 0.05 | 3.27 | 48.4 | 3.05 | 0.04 | 0.4 | 111 |
| 107474 | | 42.0 | > 3.00 | 2.18 | 6.82 | 1.16 | 0.70 | < 0.1 | 41 | 231 | 1280 | 8.25 | 1.0 | 209 | 3.0 | 8.9 | 1.1 | < 0.05 | 3.40 | 51.1 | 3.06 | 0.05 | 0.9 | 94.2 |
| 107475 | < 5 | 39.0 | > 3.00 | 2.51 | 6.23 | 0.79 | 1.11 | 0.2 | 66 | 362 | 1240 | 9.07 | 1.5 | 248 | 2.7 | 9.0 | 1.1 | < 0.05 | 3.89 | 50.0 | 3.45 | 0.05 | 0.6 | 128 |
| 107476 | | 34.9 | > 3.00 | 1.70 | 5.59 | 0.55 | 1.27 | 0.5 | 102 | 335 | 1960 | 8.32 | 2.5 | 248 | 5.8 | 7.4 | 2.2 | < 0.05 | 3.00 | 48.4 | 4.63 | 0.12 | 1.1 | 127 |
| 107477 | | 37.6 | 2.76 | 3.11 | 5.42 | 1.38 | 3.55 | 0.2 | 65 | 282 | 1160 | 6.94 | 2.0 | 235 | 2.4 | 7.6 | 0.9 | < 0.05 | 3.02 | 44.1 | 2.74 | 0.60 | 0.2 | 98.1 |
| 107478 | < 5 | 36.1 | 1.41 | 4.59 | 4.88 | 1.76 | 3.09 | 0.3 | 121 | 622 | 1520 | 12.4 | 1.1 | 576 | 1.5 | 14.8 | 0.6 | < 0.05 | 2.18 | 89.7 | 3.69 | 0.18 | 0.5 | 245 |
| 107479 | | 51.7 | 2.99 | 4.61 | 4.73 | 0.79 | 3.81 | 0.2 | 64 | 395 | 1340 | 6.82 | 1.3 | 412 | 2.2 | 11.6 | 0.9 | < 0.05 | 3.07 | 57.1 | 2.98 | 0.05 | 0.7 | 112 |
| 107480 | | 36.6 | 1.17 | 2.11 | 2.42 | 0.60 | 3.32 | 0.2 | 100 | 422 | 898 | 4.08 | 0.4 | 229 | 2.6 | 8.7 | 1.1 | < 0.05 | 1.76 | 30.7 | 3.64 | 0.15 | 2.2 | 101 |
| 107481 | < 5 | 40.8 | 2.96 | 2.28 | 5.52 | 0.89 | 1.69 | 0.3 | 107 | 336 | 2350 | 8.23 | 0.3 | 236 | 4.2 | 8.0 | 1.9 | < 0.05 | 2.03 | 41.9 | 11.7 | 0.18 | 0.9 | 188 |
| 107482 | | 30.1 | > 3.00 | 1.34 | 5.00 | 0.80 | 0.47 | 0.3 | 129 | 108 | 2830 | 16.3 | 1.5 | 79.0 | 3.1 | 8.3 | 1.5 | < 0.05 | 0.63 | 28.9 | 12.0 | 2.42 | 1.2 | 401 |
| 107483 | | 56.7 | > 3.00 | 2.33 | 6.04 | 0.96 | 1.37 | 0.3 | 93 | 403 | 1830 | 7.71 | 1.6 | 249 | 3.7 | 8.8 | 1.6 | < 0.05 | 2.79 | 43.5 | 5.93 | 0.15 | 0.9 | 120 |
| 107484 | < 5 | 26.5 | 2.36 | 1.50 | 6.28 | 1.76 | 1.69 | 0.2 | 79 | 120 | 1130 | 5.93 | 1.5 | 80.1 | 2.2 | 2.7 | 0.9 | < 0.05 | 1.82 | 21.2 | 3.38 | 0.16 | 0.4 | 91.6 |
| 107485 | | 32.1 | 2.32 | 1.56 | 5.13 | 0.88 | 1.52 | 0.3 | 102 | 273 | 1300 | 9.86 | < 0.1 | 126 | 2.9 | 6.8 | 1.2 | < 0.05 | 2.60 | 50.4 | 5.26 | 0.17 | 0.5 | 94.7 |
| 107486 | | 35.7 | 2.18 | 3.35 | 5.12 | 0.54 | 2.01 | 0.2 | 91 | 477 | 1700 | 8.23 | 0.3 | 325 | 2.9 | 7.1 | 1.1 | < 0.05 | 2.28 | 61.3 | 3.36 | 0.06 | 0.9 | 110 |
| 107487 | < 5 | 21.7 | 1.92 | 1.88 | 4.36 | 0.50 | 3.20 | 0.2 | 182 | 40.1 | 1040 | 8.55 | < 0.1 | 83.7 | 4.8 | 3.9 | 1.9 | < 0.05 | 1.80 | 34.6 | 5.86 | 0.07 | 0.5 | 140 |
| 107488 | | 53.4 | 1.44 | 2.23 | 3.38 | 0.94 | 6.80 | 0.6 | 207 | 368 | 4190 | 8.55 | 1.1 | 300 | 9.9 | 6.6 | 4.2 | < 0.05 | 1.50 | 55.7 | 16.0 | 0.18 | 1.9 | 132 |
| 107489 | | 68.5 | 2.35 | 3.29 | 5.07 | 0.92 | 4.38 | 0.3 | 244 | 327 | 2050 | 8.63 | < 0.1 | 194 | 5.7 | 13.2 | 2.4 | < 0.05 | 3.86 | 55.6 | 8.97 | 0.16 | 1.0 | 124 |
| 107490 | < 5 | 30.4 | 2.77 | 2.26 | 6.23 | 1.50 | 3.15 | 0.2 | 147 | 100 | 1180 | 6.73 | 0.8 | 103 | 3.3 | 5.7 | 1.3 | < 0.05 | 1.90 | 32.2 | 4.36 | 0.08 | 0.5 | 140 |
| 107491 | | 21.7 | > 3.00 | 5.26 | 9.03 | 0.06 | 0.83 | < 0.1 | 187 | 437 | 1070 | 7.72 | 2.0 | 197 | 1.7 | 0.8 | 0.6 | < 0.05 | 1.01 | 56.9 | 1.50 | < 0.02 | < 0.1 | 84.6 |
| 107492 | | 49.7 | > 3.00 | 2.92 | 6.37 | 1.59 | 2.45 | 0.2 | 79 | 261 | 1210 | 7.45 | 0.1 | 248 | 2.8 | 8.8 | 1.1 | < 0.05 | 2.22 | 45.3 | 3.24 | 0.06 | 0.6 | 133 |
| 107493 | < 5 | 44.3 | > 3.00 | 2.51 | 7.26 | 1.84 | 1.86 | 0.1 | 116 | 229 | 743 | 7.08 | 1.3 | 176 | 2.8 | 6.9 | 1.1 | < 0.05 | 2.44 | 36.9 | 3.33 | 0.03 | 0.5 | 115 |
| 107494 | | 46.7 | > 3.00 | 1.99 | 7.01 | 1.19 | 1.21 | 0.3 | 120 | 219 | 1580 | 8.11 | 1.7 | 150 | 3.4 | 7.9 | 1.4 | < 0.05 | 2.48 | 38.4 | 5.40 | 0.12 | 0.6 | 169 |
| 107495 | | 53.9 | > 3.00 | 3.35 | 6.86 | 1.63 | 3.62 | 0.5 | 166 | 219 | 2240 | 8.54 | 2.6 | 145 | 4.9 | 9.9 | 2.1 | < 0.05 | 2.29 | 38.9 | 8.80 | 0.23 | 0.7 | 201 |
| 107496 | < 5 | 17.2 | 0.11 | 1.81 | 2.29 | 1.28 | 4.53 | 0.7 | 275 | 140 | 1400 | 8.31 | < 0.1 | 139 | 8.3 | 5.7 | 3.3 | < 0.05 | 2.62 | 30.0 | 7.76 | 0.13 | 1.8 | 278 |
| 107497 | | 28.4 | 1.84 | 4.12 | 4.37 | 1.31 | 8.66 | 0.6 | 250 | 75.8 | 2270 | 9.10 | 0.2 | 67.2 | 11.7 | 9.0 | 4.8 | < 0.05 | 1.50 | 40.4 | 15.2 | 0.48 | 2.1 | 228 |
| 107498 | | 20.1 | 1.32 | 4.18 | 2.05 | 0.13 | 12.4 | 2.6 | 214 | 58.8 | > 10000 | 9.27 | 0.2 | 57.9 | 26.9 | 4.8 | 12.6 | < 0.05 | 0.61 | 38.8 | 36.3 | 1.20 | 5.3 | 471 |
| 107499 | < 5 | 81.4 | 1.94 | 3.90 | 5.81 | 1.78 | 3.00 | 0.2 | 145 | 105 | 1210 | 5.98 | 0.6 | 70.7 | 5.0 | 14.9 | 2.0 | < 0.05 | 2.33 | 17.7 | 7.76 | 0.14 | 0.7 | 150 |
| 107500 | | 33.5 | 2.73 | 2.38 | 6.57 | 1.71 | 3.81 | 0.3 | 125 | 70.7 | 1500 | 6.24 | 1.0 | 58.6 | 3.7 | 3.9 | 1.5 | < 0.05 | 1.72 | 26.7 | 5.33 | 0.15 | 0.6 | 131 |
| 107501 | | 27.1 | 2.82 | 2.70 | 6.90 | 1.23 | 1.39 | < 0.1 | 72 | 112 | 790 | 6.65 | 0.2 | 83.9 | 1.6 | 4.4 | 0.6 | < 0.05 | 2.39 | 42.7 | 2.14 | < 0.02 | < 0.1 | 108 |
| 107502 | < 5 | 5.5 | 0.51 | 5.70 | 1.29 | 0.39 | 16.8 | 0.8 | 221 | 18.8 | 2420 | 4.95 | < 0.1 | 21.7 | 9.1 | 5.4 | 4.1 | < 0.05 | 0.71 | 28.4 | 19.2 | 0.07 | 1.9 | 289 |
| 107503 | | 24.5 | 2.39 | 1.45 | 7.22 | 2.02 | 1.63 | 0.2 | 50 | 74.9 | 702 | 4.72 | 0.3 | 51.4 | 1.7 | 1.8 | 0.7 | < 0.05 | 1.91 | 20.5 | 1.36 | 0.03 | 0.3 | 78.8 |
| 107504 | | 21.7 | 1.94 | 1.40 | 6.04 | 1.53 | 1.99 | < 0.1 | 67 | 94.7 | 579 | 3.67 | 0.9 | 54.6 | 1.3 | 1.9 | 0.5 | 0.06 | 2.10 | 16.2 | 1.07 | < 0.02 | 0.1 | 67.4 |
| 107505 | < 5 | 24.6 | 2.37 | 1.46 | 6.89 | 1.81 | 1.85 | 0.3 | 107 | 94.2 | 1230 | 4.89 | 2.3 | 59.0 | 2.5 | 2.5 | 1.0 | < 0.05 | 1.71 | 21.9 | 3.08 | 0.06 | 0.4 | 92.0 |
| 107506 | | 23.5 | 2.21 | 0.87 | 6.59 | 1.72 | 1.29 | 0.1 | 61 | 58.3 | 404 | 3.74 | 3.8 | 30.0 | 1.7 | 1.4 | 0.7 | < 0.05 | 1.74 | 12.3 | 1.91 | 0.07 | 0.5 | |

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| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107508 | < 5 | 23.7 | 2.36 | 1.26 | 7.24 | 1.89 | 1.38 | < 0.1 | 60 | 77.1 | 536 | 4.15 | 0.7 | 43.8 | 1.4 | 1.7 | 0.5 | < 0.05 | 1.79 | 15.6 | 1.00 | 0.03 | 0.2 | 50.9 |
| 107509 | | 15.8 | 2.17 | 0.85 | 4.29 | 0.96 | 1.10 | 0.1 | 69 | 83.4 | 339 | 3.30 | 4.5 | 36.6 | 0.9 | 1.5 | 0.3 | < 0.05 | 1.03 | 12.2 | 0.64 | < 0.02 | 0.2 | 39.7 |
| 107510 | | 17.9 | 2.14 | 0.88 | 6.04 | 1.66 | 1.31 | < 0.1 | 39 | 65.0 | 416 | 3.33 | 2.9 | 31.6 | 1.4 | 1.6 | 0.5 | 0.93 | 1.49 | 12.6 | 1.12 | 0.02 | 0.7 | 43.9 |
| 107511 | 6 | 13.8 | 1.36 | 1.04 | 4.41 | 1.19 | 2.27 | 0.1 | 62 | 79.5 | 558 | 3.04 | 1.8 | 36.7 | 1.7 | 1.5 | 0.7 | < 0.05 | 1.73 | 11.6 | 1.30 | 0.02 | 1.7 | 51.8 |
| 107512 | | 14.2 | 1.97 | 0.85 | 5.71 | 1.58 | 1.70 | 0.1 | 55 | 51.6 | 461 | 3.06 | 0.3 | 28.4 | 1.5 | 1.2 | 0.5 | 0.17 | 1.44 | 10.7 | 1.21 | 0.02 | 1.0 | 40.0 |
| 107513 | | 16.9 | 2.07 | 0.97 | 6.23 | 1.75 | 1.39 | < 0.1 | 51 | 58.6 | 450 | 3.43 | 1.1 | 33.8 | 1.2 | 1.3 | 0.4 | 0.28 | 1.46 | 12.3 | 0.91 | < 0.02 | 0.8 | 39.5 |
| 107514 | < 5 | 32.0 | 1.63 | 1.73 | 5.61 | 1.88 | 1.69 | 0.2 | 86 | 71.0 | 2180 | 6.53 | 0.2 | 56.7 | 3.9 | 4.4 | 1.6 | < 0.05 | 1.93 | 23.8 | 6.65 | 0.09 | 0.8 | 73.5 |
| 107515 | | 21.2 | 1.87 | 1.01 | 6.11 | 1.75 | 1.58 | 0.1 | 48 | 56.8 | 468 | 3.32 | 0.5 | 32.2 | 1.4 | 1.2 | 0.5 | 0.18 | 1.97 | 12.2 | 0.97 | 0.03 | 0.8 | 53.3 |
| 107516 | | 18.9 | 1.73 | 0.89 | 5.55 | 1.55 | 1.31 | 0.1 | 29 | 57.6 | 498 | 3.39 | 0.4 | 33.7 | 1.2 | 1.2 | 0.4 | 0.25 | 2.06 | 13.1 | 0.93 | 0.03 | 0.7 | 40.9 |
| 107517 | < 5 | 13.5 | 1.15 | 0.82 | 3.97 | 1.06 | 1.96 | 0.1 | 48 | 50.7 | 414 | 3.07 | 1.0 | 27.2 | 1.1 | 0.9 | 0.4 | < 0.05 | 1.77 | 9.2 | 0.79 | < 0.02 | 1.3 | 56.7 |
| 107518 | | 16.5 | 1.93 | 0.83 | 3.68 | 0.75 | 1.28 | < 0.1 | 55 | 62.6 | 407 | 3.01 | 4.2 | 29.3 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.24 | 10.7 | 0.79 | < 0.02 | 0.7 | 40.0 |
| 107519 | | 16.9 | 2.09 | 0.89 | 6.01 | 1.60 | 1.32 | < 0.1 | 56 | 67.7 | 439 | 3.25 | 4.6 | 32.2 | 1.4 | 1.3 | 0.5 | < 0.05 | 1.48 | 11.6 | 1.15 | < 0.02 | 0.7 | 39.9 |
| 107520 | < 5 | 19.3 | 1.84 | 0.85 | 5.88 | 1.36 | 1.14 | < 0.1 | 51 | 66.8 | 325 | 3.52 | 3.7 | 33.3 | 1.0 | 1.3 | 0.4 | 0.09 | 1.40 | 11.5 | 0.82 | < 0.02 | 0.2 | 44.2 |
| 107521 | | 20.4 | 1.85 | 0.90 | 6.19 | 1.62 | 1.24 | 0.1 | 47 | 56.3 | 367 | 3.93 | 1.3 | 37.6 | 1.3 | 1.6 | 0.4 | 0.16 | 1.57 | 13.5 | 0.88 | 0.03 | 0.5 | 44.4 |
| 107522 | | 15.7 | 1.61 | 1.07 | 5.35 | 1.49 | 1.81 | 0.1 | 73 | 74.8 | 638 | 3.82 | 0.4 | 38.3 | 1.5 | 1.7 | 0.5 | 0.13 | 2.17 | 15.1 | 1.06 | 0.03 | 0.8 | 44.5 |
| 107523 | < 5 | 18.3 | 1.71 | 1.51 | 5.18 | 1.34 | 1.48 | < 0.1 | 58 | 77.6 | 511 | 3.74 | 0.4 | 56.4 | 1.2 | 1.8 | 0.4 | 0.06 | 2.10 | 18.2 | 1.02 | < 0.02 | 0.3 | 62.6 |
| 107524 | | 21.7 | 2.31 | 1.36 | 6.50 | 1.64 | 1.38 | < 0.1 | 33 | 65.9 | 460 | 4.27 | 0.5 | 54.4 | 1.4 | 1.8 | 0.5 | 0.06 | 1.66 | 18.0 | 1.22 | < 0.02 | < 0.1 | 53.9 |
| 107525 | | 14.6 | 2.00 | 1.08 | 5.25 | 1.02 | 0.96 | < 0.1 | 52 | 63.9 | 322 | 4.57 | 0.2 | 44.6 | 1.3 | 1.3 | 0.5 | < 0.05 | 1.00 | 14.9 | 1.32 | < 0.02 | 0.1 | 40.6 |
| 107526 | < 5 | 22.0 | 2.53 | 1.85 | 6.41 | 1.43 | 1.33 | 0.1 | 68 | 150 | 1130 | 5.71 | 0.2 | 115 | 2.0 | 3.2 | 0.8 | < 0.05 | 1.80 | 29.4 | 2.40 | < 0.02 | 0.6 | 78.2 |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92013 | 17.4 | 4.0 | 76.8 | 29.2 | 388 | 52 | 32.8 | 2.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 699 | 134 | 273 | 31.6 | 113 | 17.4 | 13.0 | 1.4 | 7.1 | 38.6 | 0.6 | 0.4 |
| 92901 | 17.4 | 0.2 | 72.4 | 20.1 | 249 | 11 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 522 | 50.0 | 101 | 11.9 | 45.0 | 7.6 | 6.2 | 0.8 | 4.3 | 121 | 0.3 | 0.3 |
| 92902 | 18.7 | 0.2 | 59.5 | 20.4 | 239 | 146 | 14.2 | 2.4 | < 0.1 | 1 | < 0.1 | 0.2 | 527 | 99.8 | 198 | 22.0 | 77.0 | 11.7 | 8.7 | 1.0 | 4.8 | 48.1 | 0.6 | 0.3 |
| 92903 | 18.9 | < 0.1 | 80.0 | 19.8 | 240 | 35 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 522 | 78.9 | 152 | 17.1 | 61.7 | 10.0 | 7.8 | 0.9 | 4.6 | 37.5 | 0.4 | 0.3 |
| 92904 | 17.9 | < 0.1 | 58.9 | 25.3 | 224 | 85 | 0.9 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 491 | 102 | 199 | 23.4 | 85.9 | 14.1 | 10.6 | 1.2 | 6.0 | 50.1 | 0.5 | 0.3 |
| 92905 | 13.3 | 1.9 | 66.3 | 57.1 | 325 | 81 | 55.5 | 15.0 | < 0.1 | < 1 | 0.1 | 0.3 | 575 | 248 | 400 | 41.0 | 137 | 21.1 | 19.0 | 2.6 | 15.0 | 38.5 | 0.5 | 0.6 |
| 92906 | 15.3 | < 0.1 | 62.5 | 10.5 | 253 | 89 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 573 | 29.1 | 60.1 | 6.6 | 24.3 | 4.1 | 3.2 | 0.4 | 2.2 | 19.2 | 0.2 | 0.2 |
| 92907 | 15.6 | 0.5 | 61.9 | 11.9 | 248 | 15 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 550 | 45.8 | 89.8 | 9.8 | 35.3 | 5.5 | 4.1 | 0.5 | 2.7 | 29.2 | 0.3 | 0.2 |
| 92908 | 16.6 | 0.7 | 69.6 | 13.7 | 246 | 27 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 54.0 | 98.8 | 10.9 | 37.9 | 5.9 | 4.5 | 0.5 | 2.9 | 33.4 | 0.3 | 0.2 |
| 92909 | 14.0 | 3.4 | 26.5 | 44.9 | 433 | 158 | 257 | 5.3 | 0.1 | 2 | 0.1 | 0.4 | 537 | 213 | 455 | 52.8 | 190 | 28.4 | 21.0 | 2.4 | 12.4 | 39.1 | 1.0 | 0.6 |
| 92910 | 11.6 | 1.1 | 58.8 | 19.1 | 329 | 69 | 64.1 | 3.8 | < 0.1 | 1 | < 0.1 | 0.2 | 530 | 84.5 | 160 | 18.5 | 64.9 | 9.8 | 7.2 | 0.8 | 4.3 | 43.1 | 0.4 | 0.3 |
| 92911 | 15.3 | 0.8 | 68.3 | 20.1 | 257 | 29 | 16.6 | 1.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 547 | 77.1 | 146 | 17.2 | 60.5 | 9.5 | 7.3 | 0.9 | 4.5 | 55.8 | 0.3 | 0.3 |
| 92912 | 15.5 | 0.5 | 66.1 | 13.5 | 278 | 55 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 575 | 69.0 | 119 | 12.6 | 42.1 | 6.0 | 4.6 | 0.5 | 2.9 | 36.6 | 0.3 | 0.2 |
| 92913 | 14.0 | 0.2 | 61.3 | 16.1 | 294 | 32 | 1.1 | 1.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 555 | 51.6 | 97.9 | 11.1 | 40.4 | 6.7 | 5.2 | 0.6 | 3.4 | 19.6 | 0.6 | 0.2 |
| 92914 | 14.1 | 1.6 | 63.7 | 31.2 | 406 | 143 | 77.2 | 4.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 550 | 122 | 238 | 26.5 | 93.1 | 13.6 | 10.3 | 1.2 | 6.6 | 30.2 | 0.7 | 0.4 |
| 92915 | 10.5 | < 0.1 | 23.2 | 14.9 | 246 | 22 | 1.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 279 | 126 | 219 | 23.1 | 75.7 | 9.9 | 7.0 | 0.7 | 3.4 | 37.9 | 0.4 | 0.2 |
| 92916 | 16.3 | 0.3 | 69.6 | 29.9 | 283 | 123 | 28.8 | 1.0 | < 0.1 | 1 | < 0.1 | 0.1 | 576 | 164 | 319 | 34.8 | 121 | 17.0 | 12.2 | 1.4 | 6.9 | 57.8 | 0.8 | 0.4 |
| 92917 | 6.4 | 0.2 | 22.2 | 30.1 | 398 | 9 | 34.9 | 7.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 434 | 145 | 230 | 26.9 | 93.7 | 13.6 | 10.4 | 1.2 | 6.2 | 76.0 | 0.3 | 0.3 |
| 92918 | 16.6 | < 0.1 | 63.8 | 21.7 | 261 | 61 | 38.0 | 3.0 | < 0.1 | 1 | < 0.1 | 0.2 | 509 | 87.6 | 167 | 18.8 | 67.4 | 10.4 | 8.2 | 1.0 | 5.0 | 38.8 | 0.8 | 0.3 |
| 92919 | 16.3 | < 0.1 | 13.6 | 11.8 | 227 | 140 | 80.7 | 1.3 | < 0.1 | 1 | < 0.1 | 0.2 | 484 | 44.2 | 96.4 | 11.5 | 42.1 | 6.7 | 5.2 | 0.6 | 3.4 | 55.2 | 0.7 | 0.2 |
| 92920 | 17.1 | < 0.1 | 47.7 | 39.2 | 284 | 88 | 86.2 | 1.1 | < 0.1 | < 1 | < 0.1 | 0.3 | 492 | 177 | 377 | 42.8 | 153 | 22.1 | 16.9 | 1.9 | 9.7 | 51.9 | 1.0 | 0.5 |
| 92921 | 19.7 | < 0.1 | 68.7 | 20.7 | 202 | 31 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 523 | 69.7 | 129 | 15.6 | 57.9 | 9.9 | 7.5 | 0.9 | 4.6 | 53.2 | 0.3 | 0.3 |
| 92922 | 16.5 | < 0.1 | 37.8 | 26.2 | 204 | 65 | 72.5 | 0.4 | < 0.1 | 1 | < 0.1 | 0.1 | 420 | 85.4 | 196 | 21.7 | 78.9 | 12.5 | 10.0 | 1.2 | 6.2 | 33.7 | 0.5 | 0.4 |
| 92923 | 19.7 | < 0.1 | 6.2 | 33.9 | 113 | 45 | 1.8 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 179 | 24.9 | 62.3 | 8.6 | 36.9 | 10.7 | 11.3 | 1.7 | 8.8 | 49.2 | 0.3 | 0.4 |
| 92924 | 16.7 | < 0.1 | 69.4 | 35.0 | 195 | 116 | 3.4 | 1.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 487 | 139 | 262 | 29.3 | 105 | 16.1 | 12.7 | 1.5 | 7.8 | 131 | 0.7 | 0.5 |
| 92925 | 13.6 | < 0.1 | 57.0 | 34.4 | 207 | 104 | 5.8 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 465 | 137 | 265 | 29.8 | 107 | 17.0 | 13.3 | 1.5 | 8.0 | 88.3 | 0.7 | 0.4 |
| 92673 | 15.8 | < 0.1 | 57.7 | 21.7 | 215 | 103 | 2.1 | 10.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 434 | 91.5 | 167 | 18.9 | 68.0 | 11.2 | 8.7 | 1.0 | 5.0 | 64.6 | 0.6 | 0.3 |
| 92674 | 16.7 | < 0.1 | 64.4 | 16.7 | 226 | 121 | 2.8 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 530 | 59.7 | 124 | 13.1 | 48.1 | 7.8 | 6.1 | 0.7 | 3.8 | 53.5 | 0.7 | 0.2 |
| 92675 | 18.7 | < 0.1 | 62.4 | 31.3 | 163 | 79 | 1.7 | 0.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 436 | 919 | 1340 | 121 | 366 | 41.1 | 28.1 | 2.1 | 8.9 | 61.8 | 1.1 | 0.4 |
| 92676 | 16.8 | 0.3 | 19.0 | 11.3 | 184 | 155 | 83.0 | 1.4 | < 0.1 | 2 | 0.1 | 0.2 | 529 | 48.5 | 106 | 12.3 | 43.4 | 6.5 | 5.0 | 0.6 | 3.1 | 41.9 | 1.5 | 0.2 |
| 92677 | 15.3 | < 0.1 | 50.8 | 29.3 | 168 | 56 | 2.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 418 | 124 | 225 | 24.8 | 88.0 | 14.6 | 12.1 | 1.4 | 7.0 | 75.6 | 0.5 | 0.4 |
| 92678 | 17.7 | 3.4 | 66.3 | 28.8 | 200 | 47 | 0.6 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 480 | 135 | 245 | 27.1 | 95.1 | 14.9 | 12.2 | 1.4 | 7.1 | 77.3 | 0.4 | 0.4 |
| 92679 | 17.5 | < 0.1 | 42.6 | 22.2 | 194 | 81 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 416 | 108 | 197 | 21.7 | 75.5 | 12.0 | 9.5 | 1.1 | 5.5 | 47.9 | 0.4 | 0.3 |
| 92680 | 16.9 | < 0.1 | 44.5 | 11.4 | 153 | 92 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 354 | 45.9 | 89.6 | 9.8 | 35.3 | 5.9 | 4.7 | 0.5 | 2.7 | 28.0 | 0.3 | 0.2 |
| 92681 | 14.1 | 0.7 | 64.7 | 14.1 | 301 | 64 | 5.8 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 585 | 35.1 | 69.4 | 8.0 | 29.4 | 5.2 | 4.3 | 0.5 | 2.9 | 21.2 | 0.7 | 0.2 |
| 92682 | 16.7 | 3.5 | 79.9 | 24.0 | 231 | 114 | 0.9 | 0.7 | < 0.1 | < 1 | < 0.1 | 0.2 | 615 | 68.0 | 133 | 15.4 | 56.6 | 9.7 | 8.0 | 1.0 | 5.2 | 60.7 | 0.6 | 0.3 |
| 92683 | 20.1 | < 0.1 | 60.9 | 8.3 | 54.5 | 60 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 360 | 38.9 | 75.9 | 8.5 | 31.2 | 4.9 | 3.5 | 0.4 | 1.9 | 86.6 | 0.4 | 0.1 |
| 92684 | 15.9 | < 0.1 | 7.6 | 13.4 | 116 | 147 | 39.1 | 2.4 | < 0.1 | 1 | < 0.1 | 0.2 | 336 | 33.6 | 77.5 | 9.0 | 34.4 | 6.6 | 5.3 | 0.7 | 3.9 | 54.9 | 0.6 | 0.2 |
| 92685 | 14.8 | < 0.1 | 52.9 | 18.2 | 180 | 114 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 448 | 53.1 | 101 | 11.8 | 44.1 | 7.6 | 6.2 | 0.8 | 4.1 | 62.9 | 0.3 | 0.2 |
| 92686 | 14.1 | 3.4 | 39.8 | 97.3 | 233 | 7 | 10.3 | 2.2 | 0.3 | 1 | < 0.1 | 0.2 | 565 | 842 | 1590 | 177 | 628 | 96.8 | 72.4 | 7.3 | 31.8 | 85.6 | 1.4 | 0.9 |
| 92687 | 15.5 | < 0.1 | 50.5 | 21.7 | 194 | 62 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 422 | 66.7 | 129 | 14.5 | 52.4 | 9.1 | 7.6 | 0.9 | 4.9 | 75.5 | 0.3 | 0.3 |
| 92688 | 10.3 | 1.6 | 40.3 | 121 | 327 | 22 | 39.6 | 9.9 | 0.4 | 4 | 0.5 | 0.2 | 793 | 1310 | 2420 | 267 | 934 | > 100 | 96.0 | 9.1 | 38.0 | 138 | 2.1 | 1.1 |
| 92689 | 18.0 | < 0.1 | 30.2 | 17.7 | 133 | 66 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 389 | 73.6 | 150 | 15.7 | 56.5 | 9.1 | 7.4 | 0.8 | 4.5 | 60.6 | 0.4 | 0.3 |
| 92690 | 17.6 | < 0.1 | 46.6 | 21.9 | 150 | 13 | 0.4 | < 0.1 | < 0.1 | < 1 | 0.2 | 0.1 | 390 | 81.7 | 146 | 17.7 | 65.1 | 10.7 | 8.4 | 1.0 | 5.1 | 84.1 | 0.4 | 0.3 |
| 92691 | 16.9 | < 0.1 | 52.3 | 22.8 | 141 | 71 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 410 | 70.9 | 136 | 15.3 | 56.1 | 9.9 | 8.3 | 1.0 | 5.4 | 93.1 | 0.5 | 0.3 |
| 92692 | 17.8 | < 0.1 | 34.7 | 32.7 | 100 | 58 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 368 | 90.2 | 166 | 19.2 | 69.8 | 12.7 | 11.2 | 1.4 | 7.5 | 85.2 | 0.4 | 0.4 |
| 92693 | 16.8 | < 0.1 | 27.3 | 18.3 | 207 | 125 | 8.4 | 2.2 | < 0.1 | 1 | < 0.1 | 0.2 | 301 | 33.9 | 68.3 | 8.0 | 31.4 | 5.9 | 5.5 | 0.7 | 4.1 | 73.9 | 0.6 | 0.3 |
| 92694 | 17.7 | < 0.1 | 41.0 | 22.4 | 161 | 119 | 36.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 461 | 57.1 | 116 | 13.5 | 50.9 | 9.7 | 8.0 | 1.0 | 5.4 | 81.8 | 0.7 | 0.3 |
| 92695 | 18.9 | < 0.1 | 27.0 | 14.4 | 82.2 | 113 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 296 | 68.9 | 133 | 13.9 | 51.2 | 9.1 | 6.8 | 0.7 | 3.7 | 44.0 | 0.3 | 0.2 |
| 92696 | 16.0 | < 0.1 | 63.8 | 27.4 | 352 | 99 | 1.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 501 | 114 | 211 | 23.3 | 82.7 | 13.4 | 11.4 | 1.3 | 6.8 | 92.4 | 0.5 | 0.3 |
| 92697 | 13.9 | < 0.1 | 40.1 | 29.2 | 208 | 6 | 1.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 352 | 121 | 221 | 24.5 | 87.0 | 14.3 | 11.7 | 1.4 | 6.9 | 89.6 | 0.5 | 0.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92699 | 14.6 | < 0.1 | 50.4 | 18.6 | 217 | 26 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 62.3 | 123 | 14.3 | 51.7 | 8.6 | 6.8 | 0.8 | 4.4 | 35.6 | 0.4 | 0.3 |
| 92700 | 19.3 | < 0.1 | 45.3 | 22.1 | 140 | 58 | 1.0 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 420 | 137 | 264 | 29.4 | 106 | 16.4 | 11.8 | 1.3 | 6.1 | 53.4 | 0.6 | 0.3 |
| 107301 | 15.3 | < 0.1 | 45.8 | 24.1 | 171 | 48 | 1.0 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 443 | 110 | 205 | 22.3 | 78.5 | 12.4 | 9.7 | 1.1 | 5.8 | 44.8 | 0.5 | 0.3 |
| 107302 | 10.9 | < 0.1 | 17.8 | 28.1 | 223 | 71 | 17.1 | 2.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 326 | 110 | 209 | 23.4 | 84.1 | 14.7 | 12.6 | 1.5 | 7.3 | 49.1 | 0.5 | 0.3 |
| 107303 | 13.9 | < 0.1 | 44.2 | 26.8 | 221 | 122 | 15.2 | 2.9 | < 0.1 | 1 | < 0.1 | 0.1 | 415 | 125 | 232 | 25.0 | 87.1 | 13.9 | 11.4 | 1.3 | 6.9 | 48.3 | 0.4 | 0.3 |
| 107304 | 16.2 | < 0.1 | 35.9 | 24.3 | 143 | 65 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 410 | 85.7 | 164 | 18.5 | 67.2 | 12.1 | 10.1 | 1.2 | 6.1 | 42.1 | 0.5 | 0.3 |
| 107305 | 17.2 | < 0.1 | 7.4 | 25.0 | 170 | 171 | 76.9 | 0.9 | < 0.1 | 2 | < 0.1 | 0.7 | 434 | 47.3 | 98.2 | 12.1 | 45.6 | 8.9 | 8.2 | 1.1 | 6.1 | 74.1 | 0.8 | 0.4 |
| 107306 | 14.5 | < 0.1 | 41.7 | 20.1 | 184 | 82 | 1.5 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 393 | 73.3 | 144 | 16.3 | 58.7 | 10.3 | 8.2 | 1.0 | 4.9 | 43.9 | 0.3 | 0.3 |
| 107307 | 15.7 | < 0.1 | 57.9 | 24.9 | 149 | 19 | 0.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 389 | 72.8 | 135 | 15.9 | 57.9 | 10.2 | 8.5 | 1.0 | 5.6 | 72.3 | 0.4 | 0.3 |
| 107308 | 15.8 | < 0.1 | 59.9 | 16.8 | 144 | 11 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 378 | 50.1 | 105 | 11.0 | 40.5 | 7.2 | 6.1 | 0.7 | 4.0 | 50.4 | 0.3 | 0.2 |
| 107309 | 13.7 | < 0.1 | 17.3 | 15.1 | 187 | 102 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 265 | 65.9 | 133 | 15.1 | 56.0 | 9.4 | 7.3 | 0.8 | 4.0 | 91.0 | 0.4 | 0.2 |
| 107310 | 16.7 | < 0.1 | 27.3 | 30.7 | 134 | 83 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 327 | 77.6 | 146 | 17.9 | 66.8 | 12.3 | 10.4 | 1.3 | 7.0 | 150 | 0.4 | 0.4 |
| 107311 | 18.9 | < 0.1 | 60.8 | 23.2 | 157 | 77 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 448 | 85.6 | 159 | 18.6 | 67.4 | 11.3 | 9.0 | 1.1 | 5.6 | 77.1 | 0.4 | 0.3 |
| 107312 | 16.0 | < 0.1 | 36.6 | 15.1 | 208 | 88 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 423 | 54.4 | 105 | 11.9 | 43.6 | 7.3 | 5.6 | 0.7 | 3.5 | 18.9 | 0.4 | 0.2 |
| 107313 | 19.2 | 2.7 | 31.7 | 44.7 | 231 | 5 | 2.2 | 0.7 | 0.1 | 1 | < 0.1 | 0.1 | 564 | 192 | 326 | 43.5 | 157 | 25.2 | 18.7 | 2.2 | 11.7 | 46.7 | 0.6 | 0.6 |
| 107314 | 21.3 | 0.4 | 8.8 | 11.4 | 89.4 | 249 | 65.5 | 1.9 | < 0.1 | 1 | < 0.1 | 0.1 | 290 | 45.5 | 102 | 11.7 | 44.8 | 7.7 | 5.6 | 0.6 | 3.2 | 23.8 | 0.9 | 0.2 |
| 107315 | 20.9 | < 0.1 | 43.4 | 22.6 | 118 | 128 | 1.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 391 | 102 | 192 | 22.9 | 84.2 | 13.6 | 10.3 | 1.1 | 5.8 | 28.6 | 0.4 | 0.3 |
| 107316 | 18.4 | < 0.1 | 26.4 | 19.8 | 128 | 26 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 328 | 104 | 206 | 22.1 | 77.9 | 11.6 | 8.8 | 1.0 | 5.1 | 52.7 | 0.4 | 0.3 |
| 107317 | 14.8 | 2.7 | 56.5 | 21.1 | 293 | 37 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 456 | 62.8 | 119 | 13.9 | 51.4 | 8.9 | 7.3 | 0.9 | 4.8 | 92.5 | 0.4 | 0.3 |
| 107318 | 14.3 | < 0.1 | 61.7 | 16.9 | 201 | 14 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 480 | 45.3 | 84.6 | 10.0 | 37.0 | 6.6 | 5.6 | 0.7 | 3.8 | 65.5 | 0.4 | 0.2 |
| 107319 | 13.0 | < 0.1 | 46.1 | 20.8 | 160 | 6 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 325 | 71.7 | 138 | 15.9 | 58.6 | 10.0 | 8.0 | 0.9 | 5.1 | 57.1 | 0.4 | 0.3 |
| 107320 | 17.8 | < 0.1 | 65.6 | 27.0 | 191 | 56 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 437 | 75.7 | 146 | 16.9 | 62.1 | 11.0 | 9.4 | 1.2 | 6.4 | 86.2 | 0.4 | 0.4 |
| 107321 | 16.5 | < 0.1 | 50.7 | 18.6 | 163 | 78 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 403 | 62.1 | 119 | 13.6 | 49.9 | 8.9 | 7.2 | 0.8 | 4.5 | 75.7 | 0.4 | 0.3 |
| 107322 | 15.6 | < 0.1 | 45.5 | 24.9 | 196 | 93 | 0.4 | 1.8 | < 0.1 | < 1 | < 0.1 | 0.1 | 409 | 107 | 200 | 22.5 | 79.5 | 13.5 | 10.3 | 1.2 | 6.1 | 83.0 | 0.4 | 0.3 |
| 107323 | 18.1 | < 0.1 | 5.7 | 11.2 | 123 | 177 | 91.7 | 33.5 | < 0.1 | 2 | 0.1 | 0.3 | 325 | 47.2 | 103 | 12.0 | 44.5 | 7.8 | 5.8 | 0.6 | 3.3 | 37.8 | 0.9 | 0.2 |
| 107324 | 16.2 | < 0.1 | 46.6 | 31.0 | 80.0 | 98 | 1.7 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 333 | 139 | 243 | 28.0 | 100 | 17.7 | 14.3 | 1.7 | 8.3 | 82.9 | 0.4 | 0.4 |
| 107325 | 6.6 | < 0.1 | 24.0 | 26.8 | 310 | 7 | 2.4 | 14.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 305 | 57.0 | 102 | 12.3 | 44.5 | 7.8 | 7.3 | 1.0 | 5.3 | 219 | 0.2 | 0.3 |
| 107326 | 15.6 | < 0.1 | 46.0 | 36.6 | 240 | 11 | 4.4 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 429 | 190 | 353 | 37.5 | 131 | 19.9 | 16.1 | 1.8 | 9.2 | 72.7 | 0.6 | 0.4 |
| 107327 | 17.5 | < 0.1 | 53.0 | 39.6 | 207 | 114 | 3.8 | 5.8 | < 0.1 | 1 | < 0.1 | 0.1 | 463 | 150 | 275 | 31.3 | 110 | 17.6 | 14.1 | 1.7 | 9.1 | 104 | 0.7 | 0.5 |
| 107328 | 14.8 | < 0.1 | 64.9 | 21.5 | 263 | 99 | 3.2 | 0.3 | < 0.1 | 1 | < 0.1 | 0.1 | 492 | 78.2 | 153 | 17.8 | 63.8 | 10.3 | 8.0 | 0.9 | 5.0 | 92.2 | 0.6 | 0.3 |
| 107329 | 17.6 | < 0.1 | 73.4 | 18.3 | 210 | 52 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 498 | 69.3 | 130 | 14.7 | 52.4 | 8.4 | 6.6 | 0.8 | 4.1 | 41.8 | 0.6 | 0.3 |
| 107330 | 17.9 | < 0.1 | 57.1 | 19.7 | 203 | 26 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 506 | 82.1 | 166 | 18.2 | 65.1 | 10.7 | 8.0 | 0.9 | 4.9 | 55.3 | 0.5 | 0.3 |
| 107331 | 17.1 | 0.2 | 74.2 | 24.4 | 256 | 100 | 46.0 | 0.3 | < 0.1 | 1 | < 0.1 | 0.2 | 562 | 99.2 | 197 | 22.3 | 78.8 | 12.3 | 9.8 | 1.1 | 5.8 | 84.7 | 0.7 | 0.3 |
| 107332 | 14.2 | 0.1 | 53.5 | 45.8 | 447 | 14 | 7.8 | 1.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 448 | 251 | 523 | 60.0 | 212 | 30.1 | 22.0 | 2.4 | 12.1 | 52.1 | 0.7 | 0.6 |
| 107333 | 14.5 | < 0.1 | 25.2 | 29.1 | 287 | 117 | 23.0 | 2.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 441 | 133 | 256 | 29.5 | 105 | 15.9 | 12.1 | 1.4 | 7.3 | 64.0 | 0.6 | 0.4 |
| 107334 | 15.6 | < 0.1 | 50.8 | 22.6 | 218 | 94 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 412 | 65.4 | 130 | 15.6 | 56.6 | 9.3 | 7.2 | 0.9 | 4.9 | 72.4 | 0.3 | 0.3 |
| 107335 | 11.7 | < 0.1 | 45.3 | 27.7 | 269 | 28 | 9.1 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 385 | 172 | 339 | 38.0 | 134 | 18.7 | 13.3 | 1.4 | 6.8 | 35.0 | 0.5 | 0.3 |
| 107336 | 10.3 | 1.9 | 32.3 | 83.4 | 519 | 2 | 4.5 | 5.1 | 0.1 | < 1 | < 0.1 | 0.2 | 567 | 465 | 1050 | 122 | 438 | 63.0 | 45.0 | 4.7 | 22.6 | 76.6 | 1.0 | 1.0 |
| 107337 | 16.1 | 0.3 | 39.6 | 69.4 | 327 | 21 | 39.1 | 5.3 | 0.1 | < 1 | < 0.1 | 0.3 | 485 | 504 | 985 | 108 | 376 | 51.1 | 35.9 | 3.7 | 18.2 | 72.6 | 0.9 | 0.8 |
| 107338 | 14.4 | 0.3 | 64.0 | 35.6 | 292 | 23 | 53.9 | 4.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 535 | 260 | 467 | 49.6 | 167 | 22.6 | 16.6 | 1.7 | 8.7 | 56.2 | 0.5 | 0.4 |
| 107339 | 13.8 | 0.4 | 42.9 | 49.2 | 214 | 43 | 66.0 | 4.4 | 0.1 | 2 | < 0.1 | 0.1 | 421 | 1240 | 1920 | 181 | 560 | 61.6 | 41.3 | 3.5 | 15.0 | 32.8 | 1.2 | 0.5 |
| 107340 | 0.6 | 5.0 | 2.1 | 86.2 | > 1000 | < 1 | 7.2 | 4.5 | 0.1 | < 1 | < 0.1 | 0.1 | 128 | 357 | 830 | 99.8 | 369 | 56.9 | 44.3 | 4.8 | 23.8 | 9.4 | 0.8 | 0.9 |
| 107341 | 15.2 | 0.3 | 70.2 | 18.5 | 283 | 92 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 566 | 102 | 178 | 19.4 | 66.9 | 9.6 | 7.6 | 0.9 | 4.3 | 39.2 | 0.6 | 0.2 |
| 107342 | 16.0 | < 0.1 | 68.5 | 16.4 | 253 | 94 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 555 | 54.5 | 102 | 11.6 | 41.8 | 6.6 | 5.5 | 0.7 | 3.6 | 57.2 | 0.5 | 0.2 |
| 107343 | 14.8 | 1.0 | 53.6 | 10.6 | 281 | 126 | 9.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 624 | 23.9 | 48.6 | 5.9 | 21.7 | 3.9 | 3.1 | 0.4 | 2.2 | 20.3 | 0.6 | 0.2 |
| 107344 | 15.3 | 0.6 | 67.2 | 11.4 | 276 | 52 | 4.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 601 | 26.4 | 55.7 | 6.4 | 23.5 | 4.1 | 3.2 | 0.4 | 2.4 | 12.8 | 0.3 | 0.2 |
| 107345 | 15.1 | < 0.1 | 58.0 | 9.9 | 334 | 102 | 45.2 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 602 | 29.3 | 65.5 | 7.6 | 27.7 | 4.5 | 3.4 | 0.4 | 2.2 | 2.9 | 0.2 | 0.1 |
| 107346 | 13.3 | 4.9 | 48.3 | 85.9 | 594 | 4 | 19.0 | 1.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 538 | 344 | 824 | 95.9 | 341 | 51.5 | 39.3 | 4.9 | 24.7 | 9.3 | 0.9 | 0.9 |
| 107347 | 14.9 | 0.6 | 79.5 | 15.4 | 332 | 156 | 42.6 | 0.3 | < 0.1 | 1 | < 0.1 | 0.3 | 651 | 46.8 | 99.0 | 11.6 | 42.3 | 6.8 | 5.3 | 0.6 | 3.4 | 19.0 | 0.6 | 0.2 |
| 107348 | 16.0 | 4.0 | 79.8 | 13.0 | 263 | 141 | 2.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 619 | 30.5 | 59.7 | 7.1 | 26.7 | 4.8 | 3.9 | 0.5 | 2.8 | 22.4 | 0.8 | 0.2 |
| 107349 | 15.5 | 2.0 | 71.8 | 16.9 | 243 | 138 | 72.2 | 0.5 | < 0.1 | 1 | < 0.1 | 0.2 | 535 | 47.7 | 100 | 11.8 | 42.5 | | | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107351 | 15.4 | 1.2 | 72.8 | 15.4 | 263 | 174 | 13.4 | 1.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 628 | 39.2 | 79.0 | 9.3 | 33.5 | 5.7 | 4.5 | 0.6 | 3.2 | 25.9 | 0.7 | 0.2 |
| 107352 | 15.2 | 3.9 | 71.3 | 28.6 | 317 | 86 | 79.5 | 1.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 624 | 94.3 | 211 | 24.1 | 85.1 | 12.7 | 9.7 | 1.2 | 6.7 | 24.9 | 0.9 | 0.4 |
| 107353 | 13.9 | 1.4 | 59.7 | 13.8 | 323 | 257 | 5.3 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 586 | 40.8 | 83.4 | 9.6 | 34.4 | 5.8 | 4.5 | 0.5 | 2.9 | 13.0 | 0.3 | 0.2 |
| 107354 | 8.4 | 11.5 | 18.0 | 187 | 825 | 4 | 17.0 | 39.0 | 0.2 | < 1 | < 0.1 | 0.2 | 723 | 206.0 | 4790 | 549 | 1920 | > 100 | 148 | 13.5 | 60.0 | 16.5 | 3.6 | 2.2 |
| 107356 | 15.5 | 3.1 | 68.3 | 40.9 | 391 | 3 | 8.9 | 3.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 634 | 141 | 310 | 36.5 | 133 | 20.5 | 16.2 | 2.0 | 10.4 | 36.9 | 0.4 | 0.5 |
| 107357 | 13.7 | 0.8 | 66.3 | 20.5 | 366 | 137 | 135 | 2.5 | < 0.1 | < 1 | < 0.1 | 0.2 | 595 | 67.4 | 154 | 18.8 | 69.5 | 11.1 | 8.0 | 0.9 | 4.8 | 22.8 | 0.6 | 0.3 |
| 107358 | 16.2 | 0.5 | 73.2 | 17.3 | 255 | 121 | 1.8 | 2.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 513 | 86.9 | 155 | 17.4 | 60.5 | 8.7 | 6.5 | 0.8 | 4.0 | 41.7 | 0.6 | 0.3 |
| 107359 | 16.2 | 0.6 | 71.1 | 26.1 | 314 | 69 | 3.3 | 5.0 | < 0.1 | 1 | < 0.1 | < 0.1 | 594 | 251 | 446 | 47.9 | 160 | 21.5 | 14.6 | 1.4 | 6.8 | 36.3 | 0.8 | 0.3 |
| 107360 | 14.5 | 1.3 | 62.2 | 34.7 | 375 | 177 | 96.0 | 3.8 | < 0.1 | 1 | < 0.1 | 0.2 | 511 | 153 | 302 | 34.2 | 120 | 17.9 | 13.3 | 1.5 | 8.0 | 46.6 | 0.4 | 0.5 |
| 107361 | 17.6 | < 0.1 | 52.9 | 30.1 | 272 | 157 | 127 | 2.5 | < 0.1 | 1 | < 0.1 | 0.2 | 468 | 99.8 | 210 | 23.8 | 86.8 | 13.8 | 11.2 | 1.4 | 7.2 | 38.9 | 0.7 | 0.4 |
| 107362 | 15.0 | 2.6 | 40.2 | 76.4 | 379 | 17 | 34.3 | 4.8 | 0.1 | < 1 | < 0.1 | 0.2 | 510 | 523 | 1040 | 116 | 408 | 54.3 | 38.1 | 3.9 | 19.3 | 26.3 | 0.9 | 0.9 |
| 107363 | 14.6 | < 0.1 | 23.5 | 25.9 | 336 | 141 | 37.4 | 3.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 498 | 110 | 227 | 26.0 | 93.6 | 14.2 | 10.9 | 1.3 | 6.7 | 70.1 | 0.7 | 0.4 |
| 107364 | 11.9 | < 0.1 | 45.5 | 19.2 | 265 | 14 | 7.2 | 1.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 446 | 53.0 | 99.7 | 11.9 | 43.3 | 7.2 | 5.8 | 0.7 | 4.1 | 62.4 | 0.3 | 0.3 |
| 107365 | 14.9 | < 0.1 | 54.5 | 24.6 | 279 | 56 | 12.3 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 449 | 110 | 219 | 24.3 | 86.3 | 13.2 | 10.0 | 1.2 | 5.9 | 48.9 | 0.6 | 0.3 |
| 107366 | 16.4 | < 0.1 | 26.7 | 28.4 | 328 | 48 | 25.8 | 1.4 | < 0.1 | 1 | < 0.1 | 0.1 | 292 | 123 | 250 | 28.3 | 101 | 14.2 | 10.9 | 1.2 | 6.7 | 81.4 | 0.6 | 0.5 |
| 107367 | 18.4 | < 0.1 | 65.9 | 36.5 | 270 | 66 | 44.8 | 0.9 | < 0.1 | 3 | < 0.1 | 0.2 | 517 | 115 | 238 | 28.5 | 102 | 15.9 | 12.9 | 1.6 | 8.7 | 94.8 | 0.5 | 0.5 |
| 107368 | 19.4 | < 0.1 | 62.0 | 32.5 | 271 | 49 | 45.4 | 0.6 | < 0.1 | 2 | < 0.1 | 0.1 | 461 | 96.6 | 206 | 23.9 | 87.5 | 13.7 | 10.9 | 1.3 | 7.1 | 69.9 | 0.6 | 0.4 |
| 107369 | 16.9 | < 0.1 | 65.1 | 25.5 | 248 | 34 | 12.6 | 0.8 | < 0.1 | 1 | < 0.1 | 0.1 | 486 | 92.1 | 191 | 21.8 | 78.5 | 12.0 | 9.8 | 1.2 | 6.0 | 91.9 | 0.6 | 0.4 |
| 107370 | 15.9 | < 0.1 | 54.3 | 28.9 | 217 | 44 | 1.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 423 | 72.4 | 138 | 17.0 | 62.5 | 10.9 | 9.2 | 1.2 | 6.3 | 109 | 0.5 | 0.4 |
| 107371 | 16.3 | < 0.1 | 67.6 | 27.9 | 239 | 21 | 1.9 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 481 | 154 | 292 | 31.6 | 110 | 15.7 | 12.0 | 1.3 | 6.8 | 73.0 | 0.6 | 0.4 |
| 107372 | 16.3 | < 0.1 | 66.9 | 24.6 | 208 | 8 | 2.0 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 431 | 146 | 267 | 29.0 | 102 | 15.2 | 11.3 | 1.2 | 6.1 | 57.5 | 0.5 | 0.3 |
| 107373 | 17.3 | < 0.1 | 6.5 | 15.3 | 110 | 164 | 33.0 | 0.7 | < 0.1 | 1 | < 0.1 | < 0.1 | 212 | 70.3 | 158 | 18.7 | 70.2 | 11.3 | 8.3 | 0.9 | 4.5 | 84.7 | 0.7 | 0.2 |
| 107374 | 15.0 | < 0.1 | 51.2 | 46.8 | 359 | 31 | 14.8 | 3.7 | < 0.1 | < 1 | < 0.1 | 0.1 | 463 | 293 | 580 | 65.3 | 229 | 30.9 | 23.2 | 2.4 | 11.5 | 96.6 | 0.7 | 0.5 |
| 107375 | 24.1 | < 0.1 | 13.7 | 12.4 | 128 | 65 | 0.3 | < 0.1 | 0.1 | < 1 | < 0.1 | 0.1 | 151 | 42.0 | 90.8 | 10.6 | 37.7 | 4.3 | 3.6 | 0.4 | 2.5 | 14.1 | 0.4 | 0.2 |
| 107376 | 32.0 | < 0.1 | 78.0 | 75.7 | 342 | 25 | 1.5 | 3.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 669 | 451 | 806 | 88.1 | 303 | 48.5 | 36.3 | 3.9 | 19.2 | 151 | 1.0 | 0.9 |
| 107377 | 16.7 | < 0.1 | 67.3 | 21.0 | 238 | 16 | 0.6 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 502 | 71.1 | 136 | 15.4 | 56.2 | 9.9 | 7.9 | 0.9 | 4.9 | 46.0 | 0.5 | 0.3 |
| 107378 | 15.0 | < 0.1 | 31.9 | 19.8 | 212 | 56 | 0.5 | 4.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 776 | 59.9 | 117 | 13.2 | 48.0 | 8.5 | 7.2 | 0.8 | 4.7 | 76.8 | 0.5 | 0.3 |
| 107379 | 16.0 | 3.0 | 50.3 | 20.5 | 238 | 112 | 2.3 | 1.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 458 | 70.6 | 138 | 15.3 | 55.5 | 9.8 | 8.0 | 0.9 | 4.8 | 52.4 | 0.6 | 0.3 |
| 107380 | 17.6 | < 0.1 | 63.8 | 30.1 | 197 | 128 | 3.7 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 464 | 109 | 204 | 22.6 | 81.0 | 15.3 | 13.0 | 1.5 | 7.6 | 64.8 | 0.7 | 0.4 |
| 107381 | 18.9 | < 0.1 | 50.0 | 13.8 | 116 | 87 | 5.2 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 317 | 51.1 | 109 | 11.0 | 40.4 | 6.9 | 5.5 | 0.6 | 3.4 | 82.5 | 0.5 | 0.2 |
| 107382 | 19.3 | < 0.1 | 4.9 | 37.5 | 116 | 192 | 169 | 3.3 | < 0.1 | 2 | 0.1 | 0.3 | 356 | 38.7 | 89.4 | 12.1 | 49.6 | 11.4 | 11.9 | 1.8 | 11.0 | 57.5 | 1.1 | 0.7 |
| 107383 | 17.5 | < 0.1 | 43.8 | 16.7 | 129 | 107 | 1.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 384 | 72.5 | 138 | 15.2 | 54.2 | 8.9 | 7.1 | 0.8 | 4.1 | 72.2 | 0.4 | 0.2 |
| 107384 | 17.6 | < 0.1 | 56.9 | 32.5 | 188 | 21 | 1.1 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.1 | 417 | 104 | 198 | 23.7 | 87.3 | 14.8 | 12.4 | 1.5 | 7.8 | 91.3 | 0.5 | 0.4 |
| 107385 | 18.2 | < 0.1 | 32.2 | 26.1 | 163 | 102 | 0.9 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 385 | 125 | 265 | 27.0 | 96.9 | 15.8 | 12.2 | 1.3 | 6.8 | 41.3 | 0.5 | 0.4 |
| 107386 | 19.8 | < 0.1 | 4.3 | 56.1 | 151 | 3 | 0.4 | < 0.1 | 0.2 | 1 | < 0.1 | 0.1 | 389 | 219 | 438 | 56.6 | 209 | 33.8 | 25.6 | 2.9 | 15.1 | 164 | 0.8 | 0.7 |
| 107387 | 15.9 | < 0.1 | 36.5 | 18.7 | 183 | 35 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 378 | 69.4 | 136 | 15.0 | 54.1 | 8.9 | 7.2 | 0.9 | 4.4 | 71.2 | 0.4 | 0.2 |
| 107388 | 14.4 | < 0.1 | 48.1 | 17.8 | 194 | 64 | 0.5 | 0.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 356 | 55.1 | 105 | 12.0 | 43.8 | 7.4 | 6.2 | 0.7 | 4.1 | 59.0 | 0.4 | 0.3 |
| 107389 | 18.5 | < 0.1 | 33.5 | 28.6 | 192 | 145 | 2.0 | 8.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 388 | 50.4 | 92.5 | 11.6 | 43.3 | 8.0 | 7.4 | 1.0 | 5.8 | 103 | 0.5 | 0.4 |
| 107390 | 18.3 | < 0.1 | 29.8 | 23.6 | 186 | 135 | 2.8 | 1.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 385 | 49.3 | 121 | 12.2 | 46.9 | 8.9 | 8.1 | 1.0 | 5.5 | 78.3 | 0.4 | 0.3 |
| 107391 | 17.4 | < 0.1 | 59.0 | 22.7 | 169 | 115 | 2.8 | 0.8 | < 0.1 | < 1 | < 0.1 | 0.1 | 461 | 64.0 | 118 | 14.1 | 51.8 | 9.3 | 8.0 | 1.0 | 5.2 | 112 | 0.6 | 0.3 |
| 107392 | 17.0 | < 0.1 | 11.4 | 14.1 | 108 | 166 | 66.0 | 1.0 | < 0.1 | 1 | < 0.1 | 0.2 | 351 | 41.6 | 90.5 | 10.5 | 39.6 | 7.4 | 6.0 | 0.7 | 3.8 | 82.7 | 1.0 | 0.2 |
| 107393 | 18.5 | < 0.1 | 27.8 | 13.8 | 105 | 114 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 283 | 72.9 | 139 | 15.0 | 54.3 | 9.3 | 7.3 | 0.8 | 3.6 | 48.1 | 0.4 | 0.2 |
| 107394 | 16.7 | < 0.1 | 56.3 | 26.4 | 131 | 37 | 0.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 427 | 79.6 | 149 | 17.1 | 61.7 | 11.4 | 9.7 | 1.2 | 6.2 | 72.9 | 0.4 | 0.3 |
| 107395 | 17.4 | < 0.1 | 51.7 | 28.1 | 172 | 83 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 472 | 86.5 | 172 | 20.7 | 79.2 | 15.3 | 12.1 | 1.4 | 6.8 | 49.9 | 0.5 | 0.3 |
| 107396 | 15.4 | < 0.1 | 45.3 | 25.5 | 203 | 81 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 431 | 79.7 | 146 | 16.4 | 60.3 | 11.9 | 10.7 | 1.3 | 6.4 | 52.2 | 0.4 | 0.3 |
| 107397 | 20.5 | < 0.1 | 22.2 | 22.6 | 126 | 46 | 1.0 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 400 | 72.8 | 136 | 15.2 | 54.8 | 9.2 | 8.1 | 1.0 | 5.5 | 46.9 | 0.4 | 0.3 |
| 107398 | 0.7 | 3.1 | 1.2 | 200 | > 1000 | 2 | 42.6 | 8.9 | 0.2 | < 1 | < 0.1 | 0.2 | 68 | 2050 | 4770 | 559 | 1960 | > 100 | 166 | 16.4 | 71.0 | 5.6 | 3.6 | 1.4 |
| 107399 | 14.3 | < 0.1 | 33.3 | 41.4 | 235 | 127 | 69.0 | 2.3 | < 0.1 | 2 | < 0.1 | 0.2 | 400 | 225 | 406 | 44.6 | 151 | 22.9 | 18.7 | 2.1 | 10.6 | 41.7 | 0.9 | 0.5 |
| 107400 | 16.5 | < 0.1 | 15.4 | 38.9 | 152 | 86 | 4.1 | 0.5 | < 0.1 | 2 | < 0.1 | < 0.1 | 244 | 194 | 349 | 42.4 | 147 | 23.5 | 19.4 | 2.3 | 10.8 | 51.2 | 0.6 | 0.4 |
| 107401 | 17.0 | < 0.1 | 51.7 | 24.1 | 219 | 83 | 1.2 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 437 | 91.5 | 186 | 21.1 | 76.1 | 12.5 | 9.9 | 1.2 | 6.0 | 70.0 | 0.6 | 0.3 |
| 107402 | 14.4 | < 0.1 | 47.4 | 23.4 | 291 | 17 | 42.4 | 0.3 | < 0.1 | 2 | < 0.1 | < 0.1 | 415 | 105 | 204 | 23.3 | 83.2 | 12.8 | 9.9 | | | | | |

Activation Laboratories Ltd. Report: A11-11134

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107404 | 17.1 | < 0.1 | 49.9 | 28.5 | 227 | 170 | 50.3 | 11.3 | < 0.1 | 1 | < 0.1 | 0.1 | 397 | 96.6 | 195 | 21.6 | 78.1 | 13.3 | 11.0 | 1.3 | 7.0 | 46.1 | 0.4 | 0.4 |
| 107405 | 14.0 | 0.6 | 21.7 | 46.6 | 459 | 4 | 2.3 | 6.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 318 | 470 | 1040 | 114 | 392 | 49.8 | 34.0 | 3.2 | 14.7 | 23.0 | 0.9 | 0.6 |
| 107406 | 16.4 | < 0.1 | 32.9 | 29.2 | 223 | 92 | 24.3 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 320 | 113 | 235 | 27.1 | 96.7 | 14.5 | 11.5 | 1.3 | 6.9 | 88.5 | 0.6 | 0.4 |
| 107407 | 13.5 | < 0.1 | 52.3 | 35.2 | 438 | 31 | 38.4 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 404 | 129 | 269 | 31.1 | 113 | 17.8 | 13.7 | 1.6 | 8.6 | 122 | 0.4 | 0.5 |
| 107408 | 12.9 | < 0.1 | 31.2 | 26.6 | 402 | 5 | 2.0 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 83.2 | 180 | 20.8 | 77.1 | 13.4 | 10.5 | 1.2 | 6.6 | 80.6 | 0.4 | 0.4 |
| 107409 | 13.1 | < 0.1 | 43.3 | 30.9 | 411 | 18 | 9.2 | 2.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 461 | 145 | 311 | 36.1 | 128 | 19.1 | 13.9 | 1.5 | 7.7 | 53.8 | 0.5 | 0.4 |
| 107410 | 12.7 | 2.9 | 15.6 | 36.4 | 311 | 60 | 131 | 2.6 | < 0.1 | 2 | 0.1 | 0.2 | 303 | 227 | 475 | 53.0 | 182 | 24.2 | 17.4 | 1.8 | 9.1 | 52.1 | 0.6 | 0.5 |
| 107411 | 13.0 | 0.8 | 54.8 | 48.8 | 400 | 46 | 4.9 | 2.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 509 | 251 | 500 | 54.9 | 188 | 27.9 | 21.1 | 2.3 | 11.8 | 70.4 | 0.5 | 0.6 |
| 107412 | 13.3 | 1.9 | 30.5 | 17.2 | 315 | 207 | 64.1 | 1.8 | < 0.1 | 1 | < 0.1 | 0.2 | 530 | 72.2 | 144 | 15.6 | 53.8 | 8.0 | 6.4 | 0.8 | 4.1 | 22.1 | 0.4 | 0.3 |
| 107413 | 14.8 | 1.2 | 63.8 | 9.0 | 281 | 49 | 3.4 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 576 | 26.4 | 52.1 | 5.9 | 21.4 | 3.5 | 2.8 | 0.3 | 1.9 | 9.3 | 0.3 | 0.1 |
| 107414 | 13.5 | 3.6 | 62.4 | 18.4 | 247 | 43 | 21.9 | 6.0 | < 0.1 | 1 | < 0.1 | 0.1 | 560 | 68.6 | 129 | 15.2 | 53.0 | 8.2 | 6.3 | 0.8 | 4.1 | 55.4 | 0.7 | 0.3 |
| 107415 | 6.2 | 0.4 | 16.8 | 46.8 | 290 | 14 | 32.2 | 24.7 | < 0.1 | 3 | 0.1 | 0.1 | 444 | 335 | 606 | 64.9 | 228 | 34.5 | 24.0 | 2.4 | 11.8 | 98.9 | 0.6 | 0.6 |
| 107416 | 16.1 | < 0.1 | 59.0 | 13.9 | 245 | 86 | 1.5 | 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 495 | 42.2 | 94.3 | 10.6 | 39.3 | 6.6 | 5.3 | 0.6 | 3.3 | 26.8 | 0.6 | 0.2 |
| 107417 | 15.2 | 0.7 | 77.7 | 15.6 | 258 | 136 | 7.3 | 0.6 | < 0.1 | 1 | < 0.1 | 0.2 | 614 | 36.7 | 70.9 | 8.6 | 30.8 | 5.4 | 4.4 | 0.6 | 3.1 | 28.3 | 0.7 | 0.2 |
| 107418 | 16.6 | 4.0 | 80.2 | 15.3 | 277 | 148 | 1.9 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 651 | 40.1 | 81.2 | 9.5 | 34.3 | 5.9 | 4.9 | 0.6 | 3.2 | 30.0 | 0.8 | 0.2 |
| 107419 | 12.9 | 0.7 | 68.1 | 9.2 | 227 | 116 | 1.2 | 1.7 | < 0.1 | < 1 | < 0.1 | 0.1 | 541 | 23.2 | 46.3 | 5.3 | 19.1 | 3.4 | 2.8 | 0.3 | 2.0 | 15.4 | 0.7 | 0.1 |
| 107420 | 15.4 | 1.4 | 74.5 | 15.6 | 306 | 194 | 6.9 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 638 | 41.0 | 87.6 | 10.0 | 36.5 | 6.1 | 5.0 | 0.6 | 3.4 | 30.1 | 0.8 | 0.2 |
| 107421 | 15.0 | 0.3 | 46.3 | 7.1 | 255 | 229 | 7.2 | 1.4 | < 0.1 | 1 | < 0.1 | 0.1 | 563 | 13.5 | 29.6 | 3.5 | 12.8 | 2.4 | 2.0 | 0.3 | 1.6 | 6.0 | 0.4 | 0.1 |
| 107422 | 15.1 | 10.7 | 14.5 | 202 | 949 | 2 | 5.8 | 10.3 | 0.2 | < 1 | < 0.1 | 0.2 | 206 | 819 | 1850 | 219 | 801 | > 100 | 94.3 | 10.6 | 53.1 | 25.5 | 1.7 | 2.3 |
| 107423 | 14.0 | 0.9 | 65.5 | 16.2 | 269 | 110 | 25.3 | 28.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 576 | 76.4 | 162 | 19.5 | 74.0 | 13.4 | 8.8 | 0.9 | 4.3 | 28.4 | 0.6 | 0.2 |
| 107424 | 10.8 | 0.2 | 51.7 | 11.1 | 276 | 58 | 4.3 | 10.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 458 | 25.5 | 47.4 | 5.8 | 21.0 | 3.7 | 3.1 | 0.4 | 2.2 | 19.7 | 0.4 | 0.2 |
| 107425 | 17.5 | < 0.1 | 91.6 | 10.0 | 249 | 87 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 608 | 29.7 | 59.6 | 6.7 | 23.8 | 3.9 | 3.0 | 0.4 | 2.0 | 6.0 | 0.4 | 0.2 |
| 107426 | 16.3 | < 0.1 | 69.7 | 8.7 | 286 | 87 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 596 | 23.3 | 47.4 | 5.3 | 19.3 | 3.3 | 2.7 | 0.3 | 1.8 | 4.9 | 0.4 | 0.1 |
| 107427 | 14.9 | 1.6 | 86.8 | 12.3 | 230 | 173 | 6.7 | 2.5 | < 0.1 | 1 | < 0.1 | 0.2 | 605 | 29.4 | 64.3 | 7.0 | 24.9 | 4.3 | 3.5 | 0.4 | 2.5 | 32.7 | 0.6 | 0.2 |
| 107428 | 14.0 | 1.9 | 65.7 | 11.1 | 292 | 195 | 3.3 | 0.4 | < 0.1 | 1 | 0.1 | < 0.1 | 587 | 27.1 | 58.7 | 6.2 | 22.1 | 4.1 | 3.3 | 0.4 | 2.3 | 19.2 | 0.7 | 0.2 |
| 107429 | 13.9 | 1.3 | 66.6 | 10.1 | 234 | 160 | 9.5 | 1.2 | < 0.1 | 1 | < 0.1 | 0.2 | 545 | 26.3 | 58.5 | 6.1 | 21.9 | 3.9 | 3.0 | 0.4 | 2.2 | 10.0 | 0.7 | 0.2 |
| 107430 | 14.5 | 0.9 | 69.9 | 13.9 | 298 | 179 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 620 | 36.1 | 72.8 | 8.2 | 30.0 | 5.3 | 4.2 | 0.5 | 2.8 | 17.7 | 0.8 | 0.2 |
| 107431 | 15.3 | 1.2 | 42.2 | 9.9 | 236 | 177 | 15.6 | 0.4 | < 0.1 | 1 | < 0.1 | 0.2 | 579 | 18.3 | 41.1 | 4.7 | 17.1 | 3.2 | 2.6 | 0.4 | 2.1 | 15.7 | 0.3 | 0.2 |
| 107432 | 15.9 | 0.6 | 70.8 | 13.6 | 266 | 140 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | 632 | 34.4 | 70.1 | 8.1 | 29.5 | 5.2 | 4.2 | 0.5 | 2.8 | 29.9 | 0.3 | 0.2 |
| 107433 | 11.9 | 3.8 | 32.4 | 13.1 | 813 | 2 | 7.4 | 1.4 | 0.2 | < 1 | < 0.1 | 0.2 | 347 | 533 | 1330 | 165 | 621 | 97.0 | 71.1 | 7.6 | 37.3 | 28.9 | 1.3 | 1.6 |
| 107434 | 13.7 | 2.0 | 53.0 | 71.3 | 473 | 2 | 5.3 | 6.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 567 | 288 | 633 | 72.6 | 257 | 38.7 | 28.6 | 3.3 | 17.0 | 52.6 | 0.7 | 0.9 |
| 107435 | 15.7 | 0.8 | 72.1 | 21.8 | 287 | 174 | 99.3 | 6.2 | < 0.1 | 2 | 0.1 | 0.1 | 588 | 106 | 203 | 22.3 | 76.2 | 11.2 | 8.6 | 1.0 | 5.1 | 50.0 | 0.8 | 0.3 |
| 107436 | 13.8 | 1.4 | 66.0 | 39.4 | 408 | 3 | 3.0 | 4.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 558 | 232 | 456 | 50.4 | 172 | 24.3 | 17.7 | 2.0 | 9.9 | 37.5 | 0.5 | 0.5 |
| 107437 | 10.3 | 5.1 | 41.3 | 108 | 637 | 2 | 8.4 | 9.8 | 0.1 | < 1 | < 0.1 | 0.2 | 653 | 530 | 1130 | 123 | 425 | 62.0 | 46.9 | 5.3 | 27.0 | 48.8 | 1.0 | 1.3 |
| 107438 | 7.0 | 5.9 | 5.2 | 150 | 743 | 3 | 9.9 | 11.7 | 0.2 | < 1 | < 0.1 | 0.1 | 605 | 759 | 1810 | 205 | 744 | > 100 | 78.7 | 8.1 | 39.5 | 17.2 | 1.5 | 1.7 |
| 107439 | 13.6 | < 0.1 | 53.5 | 44.6 | 309 | 96 | 266 | 2.1 | 0.2 | 4 | < 0.1 | 0.5 | 311 | 677 | 1420 | 158 | 542 | 67.6 | 41.0 | 3.6 | 14.9 | 47.0 | 1.3 | 0.5 |
| 107440 | 15.7 | < 0.1 | 61.8 | 30.3 | 283 | 149 | 80.5 | 1.5 | < 0.1 | 2 | < 0.1 | 0.2 | 494 | 143 | 279 | 31.6 | 111 | 17.3 | 12.7 | 1.4 | 7.2 | 58.7 | 0.6 | 0.4 |
| 107441 | 15.7 | < 0.1 | 11.3 | 21.9 | 156 | 199 | 188 | 2.8 | 0.2 | 7 | 0.1 | 0.2 | 388 | 181 | 396 | 43.2 | 140 | 20.4 | 14.7 | 1.5 | 6.9 | 27.4 | 1.4 | 0.3 |
| 107442 | 16.8 | < 0.1 | 59.0 | 24.1 | 308 | 95 | 2.6 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 506 | 63.3 | 128 | 14.6 | 55.1 | 9.8 | 7.9 | 0.9 | 5.2 | 104 | 0.4 | 0.3 |
| 107443 | 3.8 | < 0.1 | 13.4 | 64.5 | > 1000 | 2 | 5.9 | 12.8 | 0.2 | 3 | < 0.1 | 0.9 | 302 | 281 | 671 | 79.7 | 288 | 42.5 | 32.7 | 3.5 | 17.0 | 1060 | 0.8 | 0.7 |
| 107444 | 17.3 | < 0.1 | 65.2 | 23.7 | 284 | 108 | 11.7 | 1.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 497 | 87.8 | 179 | 20.2 | 72.1 | 11.4 | 9.1 | 1.0 | 5.6 | 76.4 | 0.8 | 0.3 |
| 107445 | 16.3 | 4.1 | 69.5 | 29.2 | 356 | 178 | 153 | 2.1 | < 0.1 | 2 | < 0.1 | 0.4 | 537 | 94.0 | 202 | 23.5 | 84.8 | 13.6 | 10.9 | 1.3 | 6.8 | 104 | 0.7 | 0.4 |
| 107446 | 16.9 | 0.4 | 74.1 | 24.0 | 265 | 101 | 7.0 | 0.3 | < 0.1 | 1 | < 0.1 | 0.2 | 541 | 85.5 | 163 | 18.5 | 65.8 | 10.8 | 8.3 | 1.0 | 5.3 | 76.2 | 0.7 | 0.3 |
| 107447 | 15.4 | 1.2 | 24.7 | 48.5 | 168 | 116 | 191 | 10.4 | 0.2 | 5 | < 0.1 | 0.3 | 344 | 1090 | 1900 | 197 | 639 | 69.7 | 43.2 | 3.4 | 14.6 | 34.8 | 1.6 | 0.6 |
| 107448 | 15.2 | < 0.1 | 42.3 | 25.4 | 203 | 23 | 3.6 | 0.3 | < 0.1 | 1 | < 0.1 | < 0.1 | 387 | 316 | 564 | 58.1 | 187 | 24.4 | 16.4 | 1.5 | 7.1 | 52.0 | 0.7 | 0.3 |
| 107449 | 14.2 | 5.1 | 11.4 | 13.4 | 237 | 218 | 70.6 | 3.4 | < 0.1 | 1 | 0.2 | 0.3 | 392 | 58.1 | 123 | 13.9 | 48.7 | 8.0 | 6.0 | 0.7 | 3.7 | 22.9 | 1.3 | 0.2 |
| 107450 | 13.6 | < 0.1 | 18.3 | 54.2 | 217 | 188 | 83.9 | 2.0 | < 0.1 | 1 | 0.1 | 0.2 | 326 | 322 | 620 | 66.7 | 228 | 33.9 | 25.8 | 2.9 | 14.3 | 27.0 | 0.7 | 0.6 |
| 107451 | 18.8 | < 0.1 | 47.1 | 31.5 | 241 | 19 | 2.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 492 | 100.0 | 193 | 22.1 | 77.8 | 13.0 | 10.9 | 1.3 | 7.2 | 74.9 | 0.4 | 0.4 |
| 107452 | 16.5 | < 0.1 | 63.9 | 35.7 | 206 | 22 | 2.2 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 485 | 277 | 538 | 59.6 | 202 | 28.5 | 20.1 | 1.9 | 9.1 | 66.9 | 0.7 | 0.4 |
| 107453 | 21.0 | < 0.1 | 86.7 | 13.8 | 52.3 | 13 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 247 | 30.0 | 63.2 | 7.2 | 26.6 | 4.9 | 4.3 | 0.6 | 3.2 | 67.1 | 0.3 | 0.2 |
| 107454 | 19.0 | < 0.1 | 12.6 | 13.8 | 114 | 49 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 449 | 19.0 | 41.3 | 5.1 | 20.1 | 4.2 | 3.8 | 0.5 | 3.0 | 10.6 | 0.4 | 0.2 |
| 107455 | 17.3 | < 0.1 | 45.9 | 30.2 | 172 | 71 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 503 | 83.4 | | | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107456 | 17.2 | < 0.1 | 61.3 | 23.3 | 168 | 92 | 1.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 472 | 124 | 219 | 23.4 | 80.1 | 13.6 | 10.9 | 1.2 | 5.9 | 61.2 | 0.6 | 0.3 |
| 107457 | 18.6 | < 0.1 | 61.4 | 22.2 | 172 | 90 | 1.6 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 476 | 63.8 | 124 | 14.2 | 51.8 | 9.7 | 8.1 | 1.0 | 5.1 | 71.1 | 0.6 | 0.3 |
| 107458 | 19.2 | < 0.1 | 63.9 | 20.3 | 118 | 105 | 11.0 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 358 | 51.9 | 108 | 12.7 | 47.8 | 9.4 | 8.0 | 1.0 | 5.2 | 91.3 | 0.5 | 0.3 |
| 107459 | 18.3 | < 0.1 | 53.2 | 16.4 | 174 | 54 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 444 | 64.6 | 122 | 13.9 | 49.3 | 8.4 | 6.9 | 0.8 | 4.1 | 58.9 | 0.4 | 0.3 |
| 107460 | 17.6 | < 0.1 | 5.6 | 11.1 | 77.0 | 172 | 55.0 | 1.0 | < 0.1 | 1 | < 0.1 | 0.1 | 287 | 33.7 | 80.3 | 10.0 | 38.4 | 6.6 | 4.8 | 0.6 | 3.1 | 74.2 | 1.1 | 0.2 |
| 107461 | 18.4 | < 0.1 | 59.7 | 25.2 | 118 | 65 | 0.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 444 | 90.8 | 176 | 20.3 | 73.4 | 12.5 | 10.5 | 1.2 | 6.3 | 82.3 | 0.4 | 0.4 |
| 107462 | 16.9 | < 0.1 | 55.6 | 17.3 | 168 | 17 | 0.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 379 | 59.5 | 116 | 13.3 | 47.2 | 8.1 | 6.4 | 0.8 | 4.1 | 60.0 | 0.3 | 0.3 |
| 107463 | 17.8 | < 0.1 | 65.2 | 22.3 | 207 | 29 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 488 | 74.9 | 147 | 16.6 | 59.8 | 10.3 | 8.4 | 1.0 | 5.2 | 96.9 | 0.4 | 0.3 |
| 107464 | 21.5 | < 0.1 | 55.1 | 22.6 | 95.6 | 44 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 298 | 66.2 | 133 | 13.5 | 49.7 | 8.4 | 7.3 | 0.9 | 5.1 | 46.8 | 0.5 | 0.3 |
| 107465 | 16.3 | < 0.1 | 43.4 | 24.1 | 157 | 33 | 0.3 | 1.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 421 | 55.2 | 104 | 13.0 | 48.4 | 9.2 | 7.9 | 1.0 | 5.5 | 68.7 | 0.4 | 0.3 |
| 107466 | 13.6 | 4.5 | 79.0 | 13.7 | 98.5 | 67 | 13.7 | 6.0 | < 0.1 | < 1 | < 0.1 | 0.2 | 306 | 61.4 | 117 | 12.9 | 46.4 | 7.6 | 5.7 | 0.6 | 3.2 | 50.7 | 0.7 | 0.2 |
| 107467 | 6.8 | 22.1 | 35.2 | 9.1 | 178 | 58 | 11.6 | 46.7 | < 0.1 | < 1 | 0.2 | < 0.1 | 197 | 28.8 | 50.4 | 6.1 | 22.0 | 3.8 | 3.1 | 0.4 | 2.0 | 46.5 | 0.5 | 0.1 |
| 107468 | 18.0 | < 0.1 | 58.7 | 17.3 | 143 | 92 | 1.3 | 0.7 | < 0.1 | < 1 | 2.3 | < 0.1 | 373 | 66.0 | 128 | 14.2 | 50.5 | 8.6 | 6.6 | 0.8 | 4.0 | 54.5 | 0.5 | 0.3 |
| 107469 | 18.6 | < 0.1 | 69.9 | 28.2 | 147 | 104 | 0.9 | 0.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 481 | 68.5 | 139 | 15.8 | 59.1 | 10.9 | 9.4 | 1.1 | 6.3 | 87.0 | 0.5 | 0.4 |
| 107470 | 14.1 | < 0.1 | 18.6 | 12.3 | 135 | 126 | 54.3 | 8.9 | < 0.1 | 2 | < 0.1 | 0.2 | 356 | 29.2 | 62.8 | 7.5 | 28.5 | 5.2 | 4.5 | 0.6 | 3.2 | 59.9 | 0.9 | 0.2 |
| 107471 | 16.4 | < 0.1 | 44.4 | 16.4 | 143 | 106 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 373 | 58.5 | 111 | 12.5 | 45.0 | 7.8 | 6.2 | 0.7 | 3.9 | 74.4 | 0.4 | 0.2 |
| 107472 | 17.9 | < 0.1 | 57.7 | 28.1 | 146 | 9 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 482 | 75.2 | 135 | 16.8 | 60.4 | 10.8 | 9.1 | 1.1 | 6.1 | 156 | 0.4 | 0.4 |
| 107473 | 19.4 | < 0.1 | 40.5 | 21.8 | 79.4 | 71 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 327 | 89.8 | 173 | 18.7 | 67.5 | 11.7 | 8.8 | 1.0 | 5.2 | 103 | 0.5 | 0.3 |
| 107474 | 17.7 | < 0.1 | 62.2 | 27.3 | 122 | 45 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 64.4 | 132 | 14.9 | 55.4 | 10.6 | 9.6 | 1.2 | 6.5 | 173 | 0.5 | 0.4 |
| 107475 | 18.3 | < 0.1 | 44.9 | 25.8 | 159 | 66 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 457 | 89.2 | 174 | 19.2 | 69.0 | 12.2 | 10.2 | 1.2 | 6.2 | 89.0 | 0.5 | 0.4 |
| 107476 | 17.9 | < 0.1 | 31.4 | 54.9 | 164 | 118 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.2 | 334 | 87.2 | 177 | 20.1 | 76.2 | 15.3 | 14.4 | 2.0 | 12.0 | 60.5 | 0.6 | 0.8 |
| 107477 | 14.9 | < 0.1 | 57.1 | 22.4 | 311 | 76 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 71.3 | 136 | 15.3 | 54.9 | 9.9 | 8.4 | 1.0 | 5.4 | 75.0 | 0.5 | 0.3 |
| 107478 | 19.1 | < 0.1 | 71.0 | 14.1 | 272 | 46 | 39.6 | < 0.1 | 0.1 | 2 | < 0.1 | 0.1 | 261 | 41.7 | 100 | 13.4 | 55.2 | 12.3 | 9.7 | 1.0 | 4.1 | 89.6 | 0.5 | 0.2 |
| 107479 | 14.0 | < 0.1 | 32.0 | 22.3 | 319 | 61 | 1.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 305 | 81.4 | 152 | 16.6 | 58.4 | 10.1 | 9.0 | 1.1 | 5.7 | 56.1 | 0.5 | 0.3 |
| 107480 | 8.6 | 0.6 | 23.2 | 29.2 | 351 | 32 | 7.6 | 3.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 388 | 111 | 185 | 20.4 | 70.6 | 12.8 | 10.7 | 1.3 | 6.6 | 99.8 | 0.4 | 0.3 |
| 107481 | 13.9 | < 0.1 | 37.3 | 43.5 | 249 | 28 | 9.1 | 0.4 | 0.1 | < 1 | < 0.1 | 0.1 | 376 | 313 | 715 | 94.4 | 370 | 51.9 | 30.8 | 2.8 | 12.4 | 48.7 | 1.0 | 0.5 |
| 107482 | 17.9 | < 0.1 | 13.1 | 30.5 | 61.8 | 61 | 75.5 | 22.6 | 0.1 | 4 | < 0.1 | 0.3 | 170 | 435 | 794 | 92.4 | 328 | 51.0 | 31.0 | 2.5 | 10.3 | 105 | 1.4 | 0.4 |
| 107483 | 15.8 | < 0.1 | 41.5 | 38.2 | 186 | 66 | 2.1 | 0.5 | < 0.1 | 1 | < 0.1 | < 0.1 | 496 | 223 | 396 | 44.8 | 152 | 23.0 | 17.1 | 1.9 | 9.7 | 71.3 | 0.7 | 0.5 |
| 107484 | 14.3 | 5.0 | 72.3 | 21.3 | 270 | 80 | 4.7 | 1.0 | < 0.1 | 1 | < 0.1 | 0.1 | 588 | 168 | 274 | 28.4 | 97.3 | 14.7 | 9.8 | 1.0 | 4.9 | 47.0 | 0.9 | 0.3 |
| 107485 | 17.0 | < 0.1 | 54.1 | 27.1 | 264 | 11 | 2.3 | 1.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 358 | 172 | 343 | 38.5 | 137 | 20.8 | 14.6 | 1.5 | 7.6 | 28.3 | 0.7 | 0.4 |
| 107486 | 15.8 | < 0.1 | 24.2 | 28.8 | 233 | 20 | 1.6 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 288 | 61.9 | 134 | 15.9 | 60.2 | 11.4 | 10.0 | 1.2 | 6.4 | 95.9 | 0.5 | 0.4 |
| 107487 | 11.7 | < 0.1 | 22.9 | 48.9 | 436 | 3 | 2.5 | 3.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 244 | 141 | 290 | 35.9 | 129 | 20.6 | 17.1 | 2.1 | 11.0 | 161 | 0.4 | 0.6 |
| 107488 | 8.6 | < 0.1 | 37.3 | 99.0 | 961 | 76 | 468 | 5.0 | 0.1 | 1 | < 0.1 | 0.8 | 553 | 420 | 942 | 113 | 405 | 60.0 | 45.5 | 5.1 | 25.9 | 140 | 1.0 | 1.2 |
| 107489 | 15.0 | < 0.1 | 44.7 | 53.3 | 635 | 14 | 4.8 | 1.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 267 | 255 | 554 | 66.3 | 233 | 33.7 | 25.8 | 2.8 | 14.2 | 143 | 0.8 | 0.7 |
| 107490 | 14.5 | < 0.1 | 61.4 | 32.5 | 385 | 61 | 35.3 | 1.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 488 | 125 | 254 | 29.5 | 106 | 16.7 | 13.1 | 1.5 | 7.8 | 106 | 0.6 | 0.4 |
| 107491 | 15.3 | < 0.1 | 2.5 | 14.8 | 140 | 80 | 8.7 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 23 | 27.8 | 66.5 | 6.8 | 25.7 | 4.7 | 4.2 | 0.5 | 3.3 | 144 | 0.6 | 0.2 |
| 107492 | 16.8 | < 0.1 | 59.5 | 26.8 | 286 | 8 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 78.9 | 157 | 17.9 | 65.7 | 11.7 | 9.7 | 1.2 | 6.2 | 72.3 | 0.5 | 0.4 |
| 107493 | 16.7 | < 0.1 | 68.7 | 26.7 | 249 | 59 | 2.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 473 | 98.9 | 191 | 22.0 | 78.1 | 12.6 | 10.0 | 1.2 | 6.2 | 69.3 | 0.7 | 0.4 |
| 107494 | 16.0 | < 0.1 | 51.8 | 31.3 | 196 | 79 | 8.6 | 0.9 | < 0.1 | 2 | < 0.1 | < 0.1 | 430 | 218 | 412 | 46.3 | 155 | 21.4 | 15.6 | 1.7 | 8.5 | 72.2 | 0.7 | 0.4 |
| 107495 | 15.0 | < 0.1 | 66.9 | 48.1 | 399 | 139 | 227 | 4.7 | 0.1 | 2 | < 0.1 | 0.4 | 580 | 367 | 696 | 77.1 | 258 | 36.1 | 25.5 | 2.6 | 13.0 | 83.7 | 0.6 | 0.6 |
| 107496 | 10.8 | < 0.1 | 105 | 89.7 | 504 | 2 | 4.9 | 31.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 501 | 189 | 308 | 41.3 | 147 | 24.9 | 23.4 | 3.2 | 18.3 | 103 | 0.4 | 1.0 |
| 107497 | 10.9 | 7.1 | 48.8 | 111 | 688 | 18 | 36.2 | 9.3 | 0.1 | < 1 | < 0.1 | 0.2 | 440 | 416 | 917 | 106 | 375 | 56.1 | 45.6 | 5.4 | 28.7 | 47.5 | 0.9 | 1.5 |
| 107498 | 5.0 | 28.0 | 3.6 | 255 | > 1000 | 30 | 151 | 24.6 | 0.4 | 1 | 0.4 | 0.3 | 510 | 705 | 1490 | 178 | 650 | > 100 | 113 | 15.4 | 81.7 | 22.7 | 1.3 | 2.9 |
| 107499 | 13.5 | 1.9 | 77.3 | 46.7 | 373 | 56 | 30.0 | 4.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 467 | 305 | 575 | 64.2 | 216 | 30.3 | 21.9 | 2.4 | 12.1 | 38.0 | 0.8 | 0.6 |
| 107500 | 13.7 | 0.6 | 61.8 | 35.7 | 399 | 82 | 31.9 | 9.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 561 | 220 | 403 | 44.2 | 146 | 20.7 | 15.6 | 1.8 | 9.1 | 47.3 | 0.5 | 0.5 |
| 107501 | 15.5 | < 0.1 | 43.8 | 14.6 | 233 | 22 | 0.8 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 381 | 70.0 | 138 | 14.9 | 52.5 | 8.1 | 6.4 | 0.7 | 3.7 | 43.4 | 0.4 | 0.2 |
| 107502 | 3.3 | 3.1 | 14.4 | 87.0 | > 1000 | < 1 | 9.9 | 2.5 | 0.4 | < 1 | < 0.1 | < 0.1 | 153 | 419 | 1100 | 135 | 497 | 74.7 | 53.3 | 5.7 | 26.6 | 14.9 | 0.9 | 1.0 |
| 107503 | 14.5 | < 0.1 | 76.4 | 16.1 | 276 | 27 | 0.9 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 632 | 44.0 | 91.0 | 10.4 | 37.1 | 6.5 | 5.2 | 0.7 | 3.6 | 32.5 | 0.7 | 0.2 |
| 107504 | 12.4 | < 0.1 | 66.1 | 11.5 | 245 | 64 | 0.9 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 528 | 30.1 | 57.5 | 7.1 | 25.9 | 4.5 | 3.6 | 0.4 | 2.5 | 25.9 | 0.5 | 0.2 |
| 107505 | 14.4 | 2.2 | 69.9 | 24.5 | 288 | 131 | 78.5 | 3.3 | < 0.1 | 2 | < 0.1 | 0.1 | 588 | 98.6 | 209 | 23.7 | 83.9 | 12.5 | 9.5 | 1.1 | 5.8 | 29.5 | 0.4 | 0.3 |
| 107506 | 14.3 | 2.2 | 67.7 | 16.2 | 300 | 155 | 154 | 1.5 | < 0.1 | 1 | < 0.1 | 0.3 | 607 | 58.2 | 125 | 13.3 | 45.2 | 7.3 | 6.1 | 0.8 | 4.4 | 10.6 | 0. | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107508 | 14.9 | < 0.1 | 70.1 | 12.5 | 272 | 52 | 1.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 614 | 29.1 | 60.8 | 6.8 | 24.5 | 4.4 | 3.6 | 0.5 | 2.7 | 22.6 | 0.7 | 0.2 |
| 107509 | 13.0 | 0.7 | 17.8 | 6.8 | 228 | 172 | 13.4 | 1.4 | < 0.1 | 1 | < 0.1 | 0.1 | 527 | 10.7 | 26.1 | 3.2 | 12.7 | 2.5 | 2.1 | 0.3 | 1.8 | 15.5 | 0.4 | 0.1 |
| 107510 | 14.2 | 3.7 | 63.2 | 12.0 | 295 | 129 | 0.7 | 0.2 | < 0.1 | < 1 | < 0.1 | 0.2 | 605 | 32.5 | 65.9 | 7.1 | 25.7 | 4.3 | 3.5 | 0.4 | 2.5 | 16.3 | 0.4 | 0.2 |
| 107511 | 10.3 | 1.9 | 50.0 | 18.3 | 293 | 82 | 12.0 | 5.4 | < 0.1 | < 1 | < 0.1 | 0.1 | 454 | 33.9 | 59.1 | 7.9 | 29.1 | 5.2 | 4.6 | 0.6 | 3.4 | 42.8 | 0.6 | 0.2 |
| 107512 | 12.0 | 1.7 | 62.3 | 13.9 | 322 | 38 | 5.3 | 2.9 | < 0.1 | < 1 | < 0.1 | 0.1 | 594 | 30.4 | 61.6 | 7.3 | 27.5 | 4.8 | 4.1 | 0.5 | 2.9 | 23.9 | 0.3 | 0.2 |
| 107513 | 13.3 | 1.1 | 64.7 | 11.4 | 283 | 66 | 1.4 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 609 | 27.0 | 57.7 | 6.1 | 22.6 | 4.0 | 3.3 | 0.4 | 2.4 | 17.8 | 0.8 | 0.2 |
| 107514 | 13.7 | 0.1 | 77.5 | 38.5 | 307 | 16 | 9.0 | 0.4 | < 0.1 | < 1 | < 0.1 | 0.2 | 718 | 229 | 463 | 52.7 | 190 | 27.1 | 19.6 | 2.1 | 10.1 | 14.3 | 0.7 | 0.5 |
| 107515 | 13.7 | 0.8 | 77.9 | 13.3 | 293 | 30 | 0.8 | 4.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 638 | 36.2 | 69.8 | 8.1 | 28.4 | 4.9 | 3.9 | 0.5 | 2.7 | 23.6 | 0.8 | 0.2 |
| 107516 | 13.8 | 0.7 | 74.9 | 11.1 | 276 | 32 | 0.2 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 620 | 33.0 | 72.0 | 7.4 | 26.3 | 4.5 | 3.6 | 0.4 | 2.3 | 23.7 | 0.5 | 0.2 |
| 107517 | 9.6 | 1.8 | 51.2 | 10.8 | 258 | 58 | 4.6 | 4.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 511 | 24.3 | 42.2 | 5.5 | 19.8 | 3.5 | 3.1 | 0.4 | 2.2 | 57.6 | 0.5 | 0.2 |
| 107518 | 12.4 | 1.5 | 18.0 | 8.8 | 257 | 157 | 21.0 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 562 | 17.0 | 39.3 | 5.0 | 18.8 | 3.6 | 3.0 | 0.4 | 2.2 | 21.9 | 0.9 | 0.2 |
| 107519 | 13.8 | 0.9 | 65.8 | 13.6 | 297 | 189 | 3.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 662 | 40.4 | 72.3 | 8.7 | 31.3 | 5.2 | 4.1 | 0.5 | 2.8 | 17.2 | 0.3 | 0.2 |
| 107520 | 12.0 | 0.5 | 52.1 | 9.5 | 249 | 145 | 1.0 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 552 | 23.6 | 47.4 | 5.3 | 19.6 | 3.4 | 2.8 | 0.4 | 2.0 | 26.8 | 0.3 | 0.1 |
| 107521 | 13.6 | 0.5 | 58.1 | 11.3 | 252 | 74 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 566 | 28.6 | 61.1 | 6.7 | 24.2 | 4.2 | 3.5 | 0.4 | 2.4 | 23.5 | 0.6 | 0.2 |
| 107522 | 12.3 | < 0.1 | 58.9 | 13.7 | 209 | 33 | 0.8 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 534 | 29.6 | 53.9 | 6.8 | 24.5 | 4.3 | 3.7 | 0.5 | 2.8 | 31.1 | 0.5 | 0.2 |
| 107523 | 12.6 | < 0.1 | 59.3 | 11.0 | 202 | 20 | 1.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 511 | 28.0 | 53.5 | 6.5 | 24.0 | 4.1 | 3.4 | 0.4 | 2.4 | 30.1 | 0.5 | 0.2 |
| 107524 | 14.8 | < 0.1 | 59.6 | 12.3 | 243 | 24 | 0.3 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 558 | 32.3 | 64.6 | 7.8 | 28.6 | 4.8 | 4.0 | 0.5 | 2.7 | 31.1 | 0.3 | 0.2 |
| 107525 | 13.0 | < 0.1 | 33.6 | 11.9 | 169 | 9 | 0.5 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 45.3 | 87.3 | 9.6 | 33.6 | 5.3 | 4.3 | 0.5 | 2.7 | 11.8 | 0.3 | 0.2 |
| 107526 | 15.4 | < 0.1 | 57.0 | 19.8 | 226 | 23 | 2.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 513 | 65.3 | 135 | 15.9 | 58.1 | 9.4 | 7.4 | 0.8 | 4.3 | 63.3 | 0.5 | 0.3 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 92013 | 2.3 | 0.3 | 1.4 | 1.2 | 0.003 | 0.48 | 21.6 | 18 | 19.6 | 6.7 | 0.335 | 0.221 | < 0.01 |
| 92901 | 1.8 | 0.3 | < 0.1 | 0.7 | 0.004 | 0.31 | 13.5 | 19 | 11.1 | 1.5 | 0.168 | 0.101 | 0.01 |
| 92902 | 1.7 | 0.2 | 0.1 | 0.5 | 0.001 | 0.32 | 17.5 | 17 | 19.4 | 2.2 | 0.413 | 0.151 | 0.02 |
| 92903 | 1.6 | 0.2 | < 0.1 | 0.4 | 0.003 | 0.34 | 15.0 | 17 | 12.8 | 1.1 | 0.170 | 0.101 | 0.01 |
| 92904 | 2.0 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.28 | 15.7 | 22 | 17.3 | 1.3 | 0.199 | 0.125 | 0.02 |
| 92905 | 3.6 | 0.5 | 1.5 | 1.0 | 0.003 | 0.43 | 19.8 | 19 | 22.7 | 15.3 | 0.268 | 0.268 | 0.06 |
| 92906 | 1.0 | 0.1 | < 0.1 | 0.5 | 0.006 | 0.32 | 14.1 | 11 | 8.0 | 0.9 | 0.127 | 0.042 | < 0.01 |
| 92907 | 1.1 | 0.2 | < 0.1 | 0.5 | 0.004 | 0.33 | 14.6 | 12 | 9.1 | 1.4 | 0.222 | 0.054 | < 0.01 |
| 92908 | 1.1 | 0.2 | < 0.1 | 0.5 | 0.002 | 0.38 | 14.8 | 13 | 9.4 | 1.2 | 0.241 | 0.064 | 0.02 |
| 92909 | 3.7 | 0.5 | 10.0 | 1.6 | 0.004 | 0.42 | 39.3 | 30 | 29.7 | 7.2 | 0.379 | 0.612 | 0.02 |
| 92910 | 1.6 | 0.2 | 1.6 | 1.5 | 0.003 | 0.31 | 13.4 | 14 | 12.8 | 24.8 | 0.416 | 0.137 | 0.07 |
| 92911 | 1.8 | 0.2 | 0.9 | 0.8 | 0.003 | 0.37 | 17.5 | 17 | 16.9 | 14.5 | 0.350 | 0.119 | 0.03 |
| 92912 | 1.2 | 0.2 | < 0.1 | 0.4 | 0.004 | 0.35 | 14.9 | 13 | 9.5 | 5.8 | 0.169 | 0.054 | 0.02 |
| 92913 | 1.4 | 0.2 | < 0.1 | 0.4 | 0.003 | 0.30 | 14.3 | 14 | 10.7 | 16.3 | 0.253 | 0.089 | 0.04 |
| 92914 | 2.7 | 0.4 | 2.5 | 1.3 | 0.005 | 0.36 | 17.2 | 12 | 15.6 | 2.5 | 0.356 | 0.223 | 0.01 |
| 92915 | 1.2 | 0.2 | < 0.1 | 0.4 | 0.003 | 0.17 | 9.4 | 20 | 11.0 | 4.8 | 0.224 | 0.094 | 0.09 |
| 92916 | 2.2 | 0.3 | 0.7 | 0.6 | 0.004 | 0.32 | 17.7 | 18 | 23.9 | 2.1 | 0.383 | 0.199 | 0.02 |
| 92917 | 2.0 | 0.3 | 0.1 | 1.6 | 0.006 | 0.17 | 6.8 | 10 | 11.6 | 54.7 | 0.179 | 0.170 | 0.19 |
| 92918 | 1.7 | 0.2 | 1.0 | 1.2 | 0.001 | 0.29 | 14.9 | 16 | 13.6 | 3.2 | 0.447 | 0.148 | 0.03 |
| 92919 | 1.4 | 0.2 | 2.1 | 3.8 | 0.003 | 0.26 | 14.8 | 27 | 4.5 | 1.9 | 0.741 | 0.196 | 0.02 |
| 92920 | 2.9 | 0.4 | 5.0 | 2.3 | 0.005 | 0.27 | 21.5 | 17 | 33.1 | 9.2 | 0.656 | 0.379 | 0.03 |
| 92921 | 1.7 | 0.2 | < 0.1 | 0.3 | 0.002 | 0.31 | 12.9 | 18 | 15.0 | 1.6 | 0.292 | 0.094 | < 0.01 |
| 92922 | 2.2 | 0.3 | 1.5 | 1.1 | 0.005 | 0.22 | 15.3 | 16 | 22.7 | 3.0 | 0.488 | 0.209 | 0.01 |
| 92923 | 2.3 | 0.3 | < 0.1 | 0.4 | 0.007 | 0.11 | 27.0 | 20 | 8.9 | 0.3 | 0.288 | 0.036 | 0.02 |
| 92924 | 2.8 | 0.4 | < 0.1 | 0.2 | 0.002 | 0.27 | 18.9 | 25 | 22.7 | 1.4 | 0.447 | 0.172 | 0.02 |
| 92925 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.29 | 23.1 | 24 | 20.7 | 1.8 | 0.420 | 0.183 | 0.03 |
| 92673 | 1.8 | 0.2 | < 0.1 | 0.2 | 0.004 | 0.25 | 14.9 | 20 | 13.9 | 1.2 | 0.301 | 0.113 | 0.03 |
| 92674 | 1.3 | 0.2 | < 0.1 | 0.4 | 0.001 | 0.30 | 14.2 | 15 | 10.9 | 0.9 | 0.370 | 0.080 | < 0.01 |
| 92675 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.26 | 24.5 | 19 | 28.7 | 1.0 | 0.332 | 0.137 | 0.03 |
| 92676 | 1.3 | 0.2 | 1.5 | 2.8 | 0.001 | 0.33 | 19.1 | 19 | 5.3 | 0.9 | 0.671 | 0.083 | 0.02 |
| 92677 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.25 | 19.1 | 24 | 19.5 | 1.0 | 0.236 | 0.127 | 0.02 |
| 92678 | 2.2 | 0.3 | < 0.1 | 0.1 | 0.002 | 0.29 | 23.1 | 23 | 20.8 | 1.3 | 0.178 | 0.137 | 0.02 |
| 92679 | 1.8 | 0.3 | < 0.1 | 0.2 | 0.002 | 0.21 | 16.6 | 20 | 17.0 | 1.3 | 0.168 | 0.085 | 0.02 |
| 92680 | 1.0 | 0.1 | < 0.1 | 0.3 | 0.013 | 0.20 | 16.1 | 16 | 10.1 | 0.7 | 0.153 | 0.057 | < 0.01 |
| 92681 | 1.3 | 0.2 | 0.2 | 0.4 | 0.004 | 0.30 | 16.7 | 12 | 9.2 | 1.2 | 0.285 | 0.080 | 0.02 |
| 92682 | 1.9 | 0.3 | < 0.1 | 0.2 | 0.002 | 0.34 | 17.7 | 20 | 14.6 | 1.2 | 0.277 | 0.100 | < 0.01 |
| 92683 | 0.9 | 0.1 | < 0.1 | 0.4 | 0.005 | 0.20 | 5.0 | 28 | 6.8 | 0.6 | 0.178 | 0.019 | 0.01 |
| 92684 | 1.4 | 0.2 | 1.2 | 2.2 | 0.004 | 0.22 | 12.3 | 42 | 4.1 | 0.5 | 0.735 | 0.082 | 0.01 |
| 92685 | 1.4 | 0.2 | < 0.1 | 0.3 | 0.004 | 0.24 | 11.7 | 20 | 10.3 | 0.6 | 0.243 | 0.083 | < 0.01 |
| 92686 | 4.5 | 0.6 | < 0.1 | < 0.1 | 0.003 | 0.53 | 164 | 56 | > 200 | 2.8 | 0.275 | 0.183 | 0.05 |
| 92687 | 1.7 | 0.2 | < 0.1 | 0.2 | 0.009 | 0.24 | 16.7 | 23 | 14.8 | 2.5 | 0.0998 | 0.103 | 0.03 |
| 92688 | 5.3 | 0.7 | < 0.1 | < 0.1 | 0.015 | 0.82 | 159 | 61 | > 200 | 2.0 | 0.410 | 0.257 | 0.03 |
| 92689 | 1.5 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.23 | 11.1 | 21 | 15.3 | 0.8 | 0.146 | 0.075 | < 0.01 |
| 92690 | 1.8 | 0.3 | < 0.1 | 0.1 | 0.002 | 0.19 | 11.2 | 24 | 15.4 | 1.2 | 0.126 | 0.068 | 0.03 |
| 92691 | 1.9 | 0.3 | < 0.1 | 0.2 | 0.007 | 0.20 | 12.6 | 28 | 14.8 | 0.7 | 0.274 | 0.092 | 0.01 |
| 92692 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.23 | 12.5 | 31 | 18.7 | 0.7 | 0.176 | 0.068 | 0.01 |
| 92693 | 1.7 | 0.2 | < 0.1 | 0.5 | 0.003 | 0.16 | 10.3 | 27 | 6.4 | 1.0 | 0.447 | 0.096 | 0.03 |
| 92694 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.26 | 24.9 | 30 | 10.1 | 0.8 | 0.626 | 0.107 | < 0.01 |
| 92695 | 1.2 | 0.2 | < 0.1 | 0.3 | 0.003 | 0.16 | 15.7 | 15 | 13.6 | 0.6 | 0.188 | 0.051 | < 0.01 |
| 92696 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.26 | 19.9 | 22 | 18.9 | 1.1 | 0.226 | 0.120 | < 0.01 |
| 92697 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.20 | 16.4 | 23 | 17.1 | 2.4 | 0.225 | 0.153 | 0.05 |
| 92698 | 2.8 | 0.4 | < 0.1 | < 0.1 | < 0.001 | 0.25 | 21.1 | 24 | 23.3 | 1.7 | 0.204 | 0.166 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 92699 | 1.6 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 17.1 | 16 | 13.2 | 1.3 | 0.226 | 0.081 | 0.02 |
| 92700 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.012 | 0.28 | 23.1 | 19 | 23.3 | 1.3 | 0.133 | 0.057 | 0.01 |
| 107301 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.25 | 19.2 | 21 | 17.5 | 1.1 | 0.213 | 0.075 | 0.02 |
| 107302 | 1.9 | 0.2 | 0.4 | 0.5 | 0.003 | 0.17 | 17.4 | 21 | 21.0 | 1.7 | 0.648 | 0.245 | 0.06 |
| 107303 | 2.1 | 0.3 | 0.1 | 0.4 | 0.002 | 0.22 | 21.7 | 22 | 18.1 | 3.2 | 0.686 | 0.225 | 0.03 |
| 107304 | 1.9 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.23 | 17.8 | 24 | 17.4 | 1.1 | 0.259 | 0.085 | 0.02 |
| 107305 | 2.2 | 0.3 | 1.3 | 2.2 | 0.004 | 0.21 | 15.0 | 35 | 8.5 | 0.8 | 0.849 | 0.094 | 0.03 |
| 107306 | 1.6 | 0.2 | < 0.1 | 0.1 | 0.004 | 0.21 | 16.1 | 20 | 14.5 | 1.0 | 0.232 | 0.104 | 0.03 |
| 107307 | 2.0 | 0.3 | < 0.1 | 0.1 | 0.006 | 0.20 | 18.0 | 29 | 15.6 | 3.6 | 0.230 | 0.136 | 0.05 |
| 107308 | 1.5 | 0.2 | < 0.1 | 0.1 | 0.003 | 0.20 | 11.5 | 22 | 11.1 | 0.7 | 0.101 | 0.080 | < 0.01 |
| 107309 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.24 | 9.5 | 23 | 11.2 | 1.0 | 0.374 | 0.115 | 0.07 |
| 107310 | 2.4 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.19 | 14.2 | 33 | 17.1 | 0.9 | 0.253 | 0.094 | 0.02 |
| 107311 | 2.0 | 0.3 | < 0.1 | 0.1 | 0.003 | 0.22 | 15.0 | 24 | 17.1 | 1.6 | 0.237 | 0.058 | 0.02 |
| 107312 | 1.3 | 0.2 | < 0.1 | 0.1 | 0.001 | 0.19 | 13.7 | 14 | 10.8 | 1.0 | 0.223 | 0.079 | 0.02 |
| 107313 | 3.2 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.28 | 44.4 | 29 | 40.5 | 2.7 | 0.270 | 0.162 | 0.02 |
| 107314 | 1.5 | 0.2 | 2.0 | 2.6 | 0.001 | 0.16 | 19.0 | 37 | 8.8 | 1.0 | 2.27 | 0.134 | 0.03 |
| 107315 | 1.7 | 0.2 | < 0.1 | 0.1 | < 0.001 | 0.16 | 21.8 | 19 | 14.9 | 1.5 | 0.243 | 0.126 | 0.01 |
| 107316 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.15 | 11.7 | 22 | 14.8 | 0.7 | 0.185 | 0.093 | < 0.01 |
| 107317 | 1.8 | 0.2 | < 0.1 | 0.4 | 0.003 | 0.29 | 12.9 | 22 | 11.2 | 1.1 | 0.170 | 0.091 | 0.02 |
| 107318 | 1.4 | 0.2 | < 0.1 | 0.3 | 0.004 | 0.22 | 12.3 | 20 | 9.4 | 2.8 | 0.156 | 0.086 | 0.07 |
| 107319 | 1.7 | 0.2 | < 0.1 | 0.2 | 0.002 | 0.19 | 10.9 | 22 | 12.4 | 0.7 | 0.164 | 0.104 | < 0.01 |
| 107320 | 2.3 | 0.3 | < 0.1 | 0.2 | 0.009 | 0.23 | 15.2 | 26 | 16.2 | 1.3 | 0.131 | 0.121 | 0.03 |
| 107321 | 1.6 | 0.2 | < 0.1 | 0.1 | 0.001 | 0.23 | 13.5 | 22 | 14.4 | 0.6 | 0.153 | 0.074 | < 0.01 |
| 107322 | 1.9 | 0.3 | < 0.1 | 0.1 | 0.003 | 0.24 | 24.0 | 20 | 19.3 | 1.7 | 0.161 | 0.099 | 0.03 |
| 107323 | 1.3 | 0.2 | 1.6 | 3.5 | 0.003 | 0.21 | 18.8 | 46 | 5.4 | 0.5 | 1.25 | 0.098 | 0.03 |
| 107324 | 2.3 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.29 | 19.2 | 31 | 23.6 | 0.4 | 0.234 | 0.071 | 0.01 |
| 107325 | 1.8 | 0.3 | < 0.1 | 0.4 | 0.005 | 0.15 | 12.1 | 14 | 7.4 | 6.2 | 0.192 | 0.132 | 0.13 |
| 107326 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.26 | 24.0 | 22 | 22.5 | 1.9 | 0.354 | 0.205 | 0.03 |
| 107327 | 3.0 | 0.4 | < 0.1 | 0.2 | 0.002 | 0.29 | 20.4 | 28 | 19.7 | 1.7 | 0.439 | 0.175 | 0.01 |
| 107328 | 1.8 | 0.2 | < 0.1 | 0.1 | 0.003 | 0.28 | 13.7 | 19 | 16.3 | 1.1 | 0.406 | 0.132 | 0.02 |
| 107329 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.019 | 0.29 | 12.5 | 17 | 11.7 | 1.3 | 0.250 | 0.098 | 0.02 |
| 107330 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.28 | 14.2 | 16 | 16.0 | 1.1 | 0.156 | 0.070 | 0.01 |
| 107331 | 2.0 | 0.3 | 1.5 | 1.7 | 0.006 | 0.32 | 17.0 | 19 | 17.9 | 2.1 | 0.673 | 0.200 | 0.01 |
| 107332 | 3.2 | 0.4 | 0.4 | < 0.1 | 0.006 | 0.26 | 24.6 | 17 | 35.7 | 10.3 | 0.201 | 0.497 | < 0.01 |
| 107333 | 2.4 | 0.3 | 0.3 | 2.5 | 0.004 | 0.22 | 20.8 | 17 | 16.0 | 2.6 | 0.622 | 0.220 | 0.02 |
| 107334 | 2.0 | 0.3 | < 0.1 | 0.2 | 0.001 | 0.25 | 12.3 | 20 | 12.9 | 3.9 | 0.281 | 0.134 | 0.03 |
| 107335 | 1.9 | 0.3 | 0.1 | 0.2 | 0.003 | 0.22 | 14.0 | 16 | 19.6 | 4.5 | 0.302 | 0.241 | 0.02 |
| 107336 | 5.6 | 0.8 | < 0.1 | < 0.1 | 0.003 | 0.33 | 105 | 25 | 87.1 | 14.9 | 0.0768 | 0.771 | 0.01 |
| 107337 | 4.8 | 0.6 | 0.4 | 3.4 | < 0.001 | 0.28 | 39.9 | 28 | 47.0 | 3.8 | 0.649 | 0.374 | 0.02 |
| 107338 | 2.6 | 0.4 | 0.4 | 1.5 | 0.001 | 0.34 | 16.9 | 20 | 21.2 | 2.0 | 0.547 | 0.263 | 0.02 |
| 107339 | 2.7 | 0.3 | 0.5 | 0.9 | 0.002 | 0.25 | 48.1 | 24 | 45.7 | 2.7 | 0.412 | 0.200 | 0.04 |
| 107340 | 4.8 | 0.6 | < 0.1 | < 0.1 | 0.004 | 0.07 | 15.3 | 11 | 86.0 | 6.0 | 0.0134 | 1.48 | 0.04 |
| 107341 | 1.4 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.36 | 15.2 | 14 | 13.2 | 8.7 | 0.226 | 0.090 | 0.04 |
| 107342 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.33 | 14.7 | 16 | 8.8 | 1.5 | 0.248 | 0.087 | < 0.01 |
| 107343 | 1.0 | 0.1 | 0.4 | 0.4 | 0.004 | 0.38 | 15.5 | 16 | 7.1 | 1.5 | 0.293 | 0.076 | 0.01 |
| 107344 | 1.1 | 0.2 | 0.1 | 0.3 | 0.002 | 0.35 | 16.0 | 10 | 7.7 | 1.1 | 0.297 | 0.058 | 0.01 |
| 107345 | 0.9 | 0.1 | 0.2 | 0.2 | 0.006 | 0.30 | 16.7 | 8 | 12.5 | 0.9 | 0.204 | 0.054 | < 0.01 |
| 107346 | 4.9 | 0.6 | < 0.1 | < 0.1 | 0.003 | 0.33 | 35.8 | 14 | 155 | 4.1 | 0.0274 | 0.723 | 0.02 |
| 107347 | 1.4 | 0.2 | 0.9 | 0.4 | 0.002 | 0.41 | 16.8 | 11 | 14.7 | 1.8 | 0.321 | 0.113 | 0.01 |
| 107348 | 1.3 | 0.2 | < 0.1 | 0.3 | < 0.001 | 0.43 | 15.7 | 12 | 9.0 | 1.3 | 0.347 | 0.058 | < 0.01 |
| 107349 | 1.5 | 0.2 | 1.5 | 1.0 | < 0.001 | 0.37 | 15.8 | 14 | 13.0 | 1.8 | 0.446 | 0.154 | 0.01 |
| 107350 | 1.7 | 0.2 | 1.2 | 0.5 | 0.002 | 0.41 | 16.5 | 12 | 13.7 | 2.4 | 0.327 | 0.153 | 0.02 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107351 | 1.4 | 0.2 | 0.1 | 0.4 | 0.002 | 0.41 | 16.9 | 14 | 12.4 | 16.7 | 0.373 | 0.087 | 0.02 |
| 107352 | 2.0 | 0.3 | 3.0 | 0.7 | 0.002 | 0.40 | 17.6 | 13 | 24.6 | 7.1 | 0.272 | 0.256 | 0.02 |
| 107353 | 1.4 | 0.2 | 0.2 | 0.3 | 0.001 | 0.31 | 17.0 | 10 | 17.3 | 2.0 | 0.238 | 0.060 | 0.01 |
| 107354 | 11.2 | 1.4 | < 0.1 | < 0.1 | 0.006 | 0.29 | 39.1 | 27 | > 200 | 28.4 | 0.0303 | 1.83 | 0.04 |
| 107356 | 2.6 | 0.4 | < 0.1 | 0.2 | 0.003 | 0.63 | 26.1 | 13 | 33.8 | 4.1 | 0.0888 | 0.327 | 0.02 |
| 107357 | 1.6 | 0.2 | 0.5 | 0.5 | 0.002 | 0.37 | 16.6 | 11 | 19.4 | 5.1 | 0.292 | 0.220 | 0.02 |
| 107358 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.33 | 14.7 | 20 | 11.6 | 10.3 | 0.336 | 0.111 | 0.03 |
| 107359 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.39 | 21.5 | 21 | 23.6 | 3.0 | 0.339 | 0.156 | 0.02 |
| 107360 | 3.0 | 0.4 | 2.7 | 2.0 | 0.004 | 0.37 | 21.2 | 18 | 24.4 | 3.2 | 0.518 | 0.287 | < 0.01 |
| 107361 | 2.5 | 0.4 | 1.8 | 2.4 | < 0.001 | 0.44 | 15.8 | 19 | 18.1 | 2.7 | 0.575 | 0.268 | 0.02 |
| 107362 | 4.6 | 0.6 | 0.9 | 0.4 | 0.001 | 0.38 | 22.5 | 24 | 68.4 | 13.2 | 0.213 | 0.597 | 0.02 |
| 107363 | 2.2 | 0.3 | 0.5 | 2.8 | 0.004 | 0.28 | 19.3 | 15 | 16.8 | 2.8 | 0.545 | 0.182 | < 0.01 |
| 107364 | 1.7 | 0.2 | 0.3 | 0.4 | 0.003 | 0.21 | 10.6 | 15 | 10.0 | 4.2 | 0.470 | 0.113 | 0.07 |
| 107365 | 2.0 | 0.3 | < 0.1 | 0.3 | < 0.001 | 0.24 | 13.9 | 17 | 16.4 | 3.7 | 0.392 | 0.187 | 0.03 |
| 107366 | 3.1 | 0.5 | 1.0 | 1.3 | 0.004 | 0.12 | 17.6 | 20 | 17.2 | 5.0 | 0.564 | 0.264 | 0.05 |
| 107367 | 2.9 | 0.4 | 1.2 | 1.3 | 0.002 | 0.27 | 20.5 | 22 | 21.4 | 3.8 | 0.665 | 0.275 | 0.01 |
| 107368 | 2.7 | 0.4 | 0.7 | 1.0 | < 0.001 | 0.25 | 13.5 | 19 | 15.7 | 1.9 | 0.614 | 0.197 | 0.02 |
| 107369 | 2.0 | 0.3 | 0.2 | 0.3 | 0.002 | 0.28 | 16.1 | 18 | 16.5 | 1.3 | 0.346 | 0.165 | 0.01 |
| 107370 | 2.4 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.27 | 11.4 | 19 | 13.2 | 2.7 | 0.243 | 0.167 | 0.05 |
| 107371 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.31 | 16.8 | 22 | 19.4 | 2.1 | 0.204 | 0.157 | 0.03 |
| 107372 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.25 | 16.2 | 19 | 17.1 | 1.8 | 0.191 | 0.150 | 0.02 |
| 107373 | 1.3 | 0.2 | 0.6 | 0.5 | 0.001 | 0.16 | 18.3 | 41 | 13.8 | 0.8 | 0.686 | 0.124 | 0.02 |
| 107374 | 3.0 | 0.4 | 0.3 | 0.5 | 0.002 | 0.24 | 34.7 | 22 | 34.9 | 2.1 | 0.454 | 0.283 | 0.02 |
| 107375 | 1.5 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.07 | 4.8 | 28 | 4.9 | 1.0 | 0.151 | 0.020 | 0.02 |
| 107376 | 4.9 | 0.7 | < 0.1 | < 0.1 | 0.003 | 0.49 | 44.8 | 28 | 66.2 | 4.5 | 0.133 | 0.094 | 0.02 |
| 107377 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.005 | 0.31 | 17.4 | 18 | 14.2 | 1.4 | 0.184 | 0.074 | 0.01 |
| 107378 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.21 | 11.3 | 26 | 12.4 | 1.2 | 0.223 | 0.084 | 0.04 |
| 107379 | 1.6 | 0.2 | < 0.1 | 0.2 | 0.003 | 0.26 | 14.9 | 20 | 15.0 | 0.9 | 0.317 | 0.068 | 0.04 |
| 107380 | 2.2 | 0.3 | < 0.1 | 0.1 | 0.005 | 0.27 | 27.0 | 26 | 28.1 | 1.6 | 0.445 | 0.169 | 0.02 |
| 107381 | 1.3 | 0.2 | < 0.1 | 0.2 | 0.002 | 0.18 | 11.1 | 25 | 13.6 | 0.6 | 0.336 | 0.061 | 0.01 |
| 107382 | 4.5 | 0.6 | 2.5 | 8.6 | 0.002 | 0.25 | 24.3 | 34 | 7.8 | 1.4 | 1.24 | 0.113 | 0.03 |
| 107383 | 1.4 | 0.2 | < 0.1 | 0.2 | 0.005 | 0.19 | 11.3 | 22 | 14.2 | 0.7 | 0.177 | 0.080 | < 0.01 |
| 107384 | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.35 | 33.7 | 27 | 16.8 | 2.5 | 0.172 | 0.222 | 0.03 |
| 107385 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.22 | 24.6 | 25 | 21.4 | 1.4 | 0.201 | 0.124 | 0.02 |
| 107386 | 3.7 | 0.5 | < 0.1 | < 0.1 | 0.002 | 0.09 | 37.3 | 43 | 30.6 | 7.8 | 0.267 | 0.320 | 0.04 |
| 107387 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.29 | 16.8 | 22 | 11.9 | 1.9 | 0.189 | 0.147 | 0.05 |
| 107388 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.27 | 28.2 | 20 | 10.3 | 2.5 | 0.186 | 0.109 | 0.08 |
| 107389 | 2.5 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.18 | 13.8 | 34 | 10.3 | 4.0 | 0.454 | 0.085 | 0.03 |
| 107390 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.16 | 9.9 | 30 | 8.6 | 2.6 | 0.582 | 0.201 | 0.02 |
| 107391 | 1.8 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.21 | 13.3 | 29 | 13.1 | 0.7 | 0.410 | 0.105 | 0.03 |
| 107392 | 1.3 | 0.2 | 1.3 | 1.8 | 0.003 | 0.21 | 14.5 | 17 | 7.2 | 0.5 | 0.975 | 0.120 | 0.02 |
| 107393 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.16 | 15.7 | 21 | 17.0 | 0.6 | 0.162 | 0.064 | < 0.01 |
| 107394 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.25 | 12.5 | 27 | 15.2 | 0.7 | 0.0841 | 0.043 | < 0.01 |
| 107395 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.004 | 0.25 | 20.3 | 24 | 18.8 | 0.9 | 0.173 | 0.091 | 0.03 |
| 107396 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.26 | 16.9 | 21 | 14.6 | 0.9 | 0.124 | 0.057 | 0.02 |
| 107397 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.40 | 6.6 | 36 | 11.4 | 0.6 | 0.245 | 0.062 | 0.01 |
| 107398 | 4.2 | 0.4 | < 0.1 | < 0.1 | 0.005 | < 0.05 | 64.1 | 6 | > 200 | 0.5 | 0.0160 | 0.220 | < 0.01 |
| 107399 | 2.5 | 0.3 | 1.1 | 1.2 | 0.002 | 0.23 | 23.7 | 21 | 39.0 | 1.3 | 0.581 | 0.241 | 0.04 |
| 107400 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.17 | 112 | 26 | 31.2 | 1.0 | 0.298 | 0.200 | 0.03 |
| 107401 | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.24 | 17.6 | 20 | 17.7 | 1.9 | 0.344 | 0.179 | 0.02 |
| 107402 | 1.8 | 0.3 | 0.9 | 0.2 | 0.003 | 0.21 | 15.0 | 18 | 27.1 | 6.1 | 0.284 | 0.187 | 0.06 |
| 107403 | 2.2 | 0.3 | 0.4 | 1.0 | 0.001 | 0.25 | 13.9 | 11 | 10.4 | 1.9 | 0.352 | 0.292 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107404 | 2.2 | 0.3 | 1.5 | 1.9 | 0.004 | 0.22 | 15.5 | 15 | 15.1 | 1.2 | 0.784 | 0.260 | 0.02 |
| 107405 | 2.8 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.17 | 61.8 | 13 | 87.0 | 29.5 | 0.0518 | 0.905 | < 0.01 |
| 107406 | 2.4 | 0.3 | 0.7 | 1.5 | 0.001 | 0.17 | 11.7 | 23 | 15.0 | 2.7 | 0.776 | 0.399 | 0.02 |
| 107407 | 2.8 | 0.4 | 0.6 | 1.1 | 0.001 | 0.22 | 20.7 | 22 | 23.3 | 5.2 | 0.538 | 0.410 | 0.02 |
| 107408 | 2.1 | 0.3 | < 0.1 | 0.3 | 0.003 | 0.15 | 13.8 | 21 | 16.6 | 9.7 | 0.254 | 0.214 | 0.03 |
| 107409 | 2.3 | 0.3 | 0.2 | 0.6 | 0.005 | 0.20 | 16.8 | 17 | 27.6 | 12.9 | 0.253 | 0.299 | 0.03 |
| 107410 | 3.2 | 0.4 | 3.2 | 2.4 | 0.003 | 0.17 | 21.6 | 25 | 39.4 | 24.2 | 0.553 | 0.444 | 0.07 |
| 107411 | 3.4 | 0.5 | < 0.1 | 1.2 | 0.001 | 0.26 | 18.8 | 21 | 35.0 | 6.6 | 0.302 | 0.399 | 0.01 |
| 107412 | 1.5 | 0.2 | 2.2 | 1.1 | 0.003 | 0.34 | 16.4 | 10 | 8.8 | 1.9 | 0.332 | 0.187 | < 0.01 |
| 107413 | 0.8 | 0.1 | 0.1 | 0.3 | 0.001 | 0.36 | 14.9 | 9 | 7.3 | 0.9 | 0.273 | 0.045 | 0.01 |
| 107414 | 1.6 | 0.2 | 1.0 | 0.8 | 0.035 | 0.42 | 17.0 | 15 | 14.6 | 8.4 | 0.378 | 0.105 | 0.06 |
| 107415 | 3.4 | 0.5 | 1.1 | 3.1 | 0.007 | 0.14 | 13.3 | 30 | 59.2 | 78.5 | 0.354 | 0.488 | 0.22 |
| 107416 | 1.3 | 0.2 | < 0.1 | 0.2 | 0.003 | 0.36 | 15.7 | 17 | 14.9 | 3.4 | 0.221 | 0.084 | < 0.01 |
| 107417 | 1.3 | 0.2 | 0.2 | 0.4 | 0.002 | 0.42 | 14.5 | 13 | 9.0 | 4.5 | 0.341 | 0.076 | 0.02 |
| 107418 | 1.4 | 0.2 | < 0.1 | 0.1 | 0.001 | 0.42 | 15.2 | 14 | 10.1 | 1.4 | 0.297 | 0.096 | < 0.01 |
| 107419 | 0.9 | 0.1 | < 0.1 | 0.1 | 0.004 | 0.37 | 12.7 | 12 | 6.5 | 0.9 | 0.310 | 0.066 | < 0.01 |
| 107420 | 1.3 | 0.2 | 0.1 | 0.1 | < 0.001 | 0.39 | 15.6 | 12 | 9.8 | 1.3 | 0.362 | 0.124 | < 0.01 |
| 107421 | 0.8 | 0.1 | 0.4 | 0.3 | 0.001 | 0.34 | 13.5 | 7 | 4.4 | 0.8 | 0.310 | 0.040 | < 0.01 |
| 107422 | 12.0 | 1.6 | < 0.1 | < 0.1 | 0.001 | 0.16 | 87.3 | 26 | 125 | 22.0 | 0.0117 | 2.93 | 0.05 |
| 107423 | 1.2 | 0.2 | 0.5 | 0.5 | 0.006 | 0.39 | 14.7 | 12 | 12.6 | 52.6 | 0.330 | 0.128 | 0.08 |
| 107424 | 1.0 | 0.1 | 0.2 | 0.2 | < 0.001 | 0.28 | 10.2 | 10 | 7.1 | 34.6 | 0.263 | 0.211 | 0.14 |
| 107425 | 1.0 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.49 | 18.0 | 12 | 9.2 | 1.3 | 0.108 | 0.014 | < 0.01 |
| 107426 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.053 | 0.38 | 16.9 | 10 | 8.7 | 0.9 | 0.103 | 0.018 | < 0.01 |
| 107427 | 1.2 | 0.2 | 0.3 | 0.5 | < 0.001 | 0.46 | 17.4 | 12 | 11.0 | 4.3 | 0.332 | 0.091 | 0.04 |
| 107428 | 1.1 | 0.1 | 0.2 | 0.3 | 0.002 | 0.36 | 16.0 | 11 | 8.7 | 1.1 | 0.268 | 0.058 | 0.01 |
| 107429 | 1.0 | 0.1 | 0.3 | 1.1 | 0.004 | 0.35 | 16.2 | 12 | 9.1 | 1.1 | 0.354 | 0.055 | 0.01 |
| 107430 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.37 | 15.9 | 12 | 10.3 | 1.3 | 0.294 | 0.077 | < 0.01 |
| 107431 | 0.9 | 0.1 | 0.6 | 0.8 | 0.002 | 0.43 | 15.0 | 9 | 5.8 | 0.9 | 0.358 | 0.071 | < 0.01 |
| 107432 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.42 | 15.2 | 13 | 10.6 | 1.7 | 0.288 | 0.077 | < 0.01 |
| 107433 | 7.8 | 1.0 | < 0.1 | < 0.1 | 0.001 | 0.48 | 101 | 18 | 164 | 22.5 | 0.0127 | 2.94 | 0.01 |
| 107434 | 5.0 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.71 | 35.5 | 20 | 50.4 | 28.4 | 0.0583 | 0.710 | 0.01 |
| 107435 | 1.8 | 0.3 | 2.4 | 2.1 | 0.130 | 0.40 | 15.9 | 17 | 15.2 | 2.2 | 0.509 | 0.225 | 0.01 |
| 107436 | 2.8 | 0.4 | < 0.1 | 0.3 | 0.004 | 0.42 | 23.2 | 16 | 30.0 | 7.4 | 0.117 | 0.320 | < 0.01 |
| 107437 | 7.4 | 1.0 | < 0.1 | 1.1 | 0.003 | 0.35 | 35.7 | 23 | 55.4 | 18.0 | 0.150 | 1.30 | 0.04 |
| 107438 | 8.8 | 1.1 | < 0.1 | < 0.1 | 0.004 | 0.49 | 26.9 | 28 | 106 | 17.6 | 0.0327 | 2.07 | 0.05 |
| 107439 | 2.4 | 0.3 | 5.6 | 0.7 | 0.003 | 0.36 | 36.3 | 28 | 91.5 | 12.7 | 0.501 | 0.347 | 0.05 |
| 107440 | 2.4 | 0.3 | 1.5 | 1.6 | 0.002 | 0.29 | 23.1 | 22 | 21.6 | 2.6 | 0.591 | 0.275 | 0.02 |
| 107441 | 1.8 | 0.2 | 1.2 | 6.3 | 0.002 | 0.40 | 23.2 | 42 | 14.8 | 8.8 | 0.941 | 0.106 | 0.03 |
| 107442 | 1.9 | 0.3 | < 0.1 | 0.1 | 0.003 | 0.28 | 13.4 | 18 | 14.1 | 1.8 | 0.250 | 0.130 | < 0.01 |
| 107443 | 3.5 | 0.4 | < 0.1 | 0.4 | 0.004 | 0.11 | 15.4 | 9 | 35.9 | 16.0 | 0.0408 | 1.29 | 0.51 |
| 107444 | 1.9 | 0.3 | 0.4 | 0.6 | 0.004 | 0.26 | 15.5 | 18 | 15.3 | 2.6 | 0.496 | 0.223 | 0.01 |
| 107445 | 2.3 | 0.3 | 1.9 | 2.4 | < 0.001 | 0.32 | 15.2 | 18 | 18.1 | 1.4 | 0.641 | 0.299 | 0.01 |
| 107446 | 1.9 | 0.3 | 0.1 | 0.2 | 0.001 | 0.33 | 13.4 | 19 | 14.9 | 1.3 | 0.346 | 0.173 | 0.01 |
| 107447 | 2.8 | 0.4 | 2.9 | 1.1 | 0.003 | 0.23 | 19.9 | 32 | 45.9 | 3.4 | 0.498 | 0.277 | 0.04 |
| 107448 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.31 | 21.1 | 18 | 22.3 | 1.9 | 0.191 | 0.236 | 0.01 |
| 107449 | 1.5 | 0.2 | 1.3 | 2.5 | 0.004 | 0.25 | 19.5 | 12 | 8.1 | 1.2 | 0.582 | 0.105 | 0.02 |
| 107450 | 3.1 | 0.4 | 1.7 | 1.0 | < 0.001 | 0.23 | 31.2 | 23 | 41.2 | 2.0 | 0.580 | 0.292 | 0.02 |
| 107451 | 2.5 | 0.3 | < 0.1 | 0.1 | 0.002 | 0.23 | 34.1 | 23 | 16.6 | 2.5 | 0.179 | 0.201 | 0.04 |
| 107452 | 2.4 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.34 | 34.6 | 25 | 32.9 | 2.0 | 0.158 | 0.174 | 0.02 |
| 107453 | 1.5 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.17 | 39.3 | 22 | 7.6 | 0.4 | 0.122 | 0.056 | 0.01 |
| 107454 | 1.5 | 0.2 | < 0.1 | 0.1 | 0.002 | 0.17 | 7.3 | 32 | 2.6 | 0.3 | 0.174 | 0.074 | < 0.01 |
| 107455 | 2.4 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.31 | 21.0 | 28 | 19.9 | 1.0 | 0.167 | 0.046 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107456 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.28 | 14.1 | 26 | 17.0 | 0.6 | 0.252 | 0.117 | 0.02 |
| 107457 | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.29 | 15.1 | 26 | 13.8 | 0.7 | 0.272 | 0.111 | 0.03 |
| 107458 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.24 | 11.1 | 26 | 13.8 | 0.9 | 0.382 | 0.080 | 0.02 |
| 107459 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.23 | 11.1 | 22 | 11.8 | 0.7 | 0.114 | 0.071 | < 0.01 |
| 107460 | 1.2 | 0.2 | 1.2 | 1.2 | < 0.001 | 0.14 | 11.2 | 14 | 4.9 | 0.4 | 1.14 | 0.113 | 0.03 |
| 107461 | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 14.1 | 28 | 15.4 | 0.8 | 0.155 | 0.105 | 0.01 |
| 107462 | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.22 | 13.7 | 22 | 10.3 | 1.1 | 0.137 | 0.091 | 0.03 |
| 107463 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.25 | 30.6 | 24 | 12.3 | 0.7 | 0.128 | 0.106 | < 0.01 |
| 107464 | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 279 | 19 | 14.3 | 2.2 | 0.198 | 0.144 | < 0.01 |
| 107465 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.15 | 8.7 | 26 | 9.0 | 2.8 | 0.258 | 0.223 | 0.13 |
| 107466 | 1.3 | 0.2 | 0.4 | 0.9 | < 0.001 | 0.41 | 36.8 | 12 | 13.7 | 1.7 | 0.455 | 0.173 | 0.10 |
| 107467 | 0.8 | 0.1 | 0.3 | 1.0 | 0.004 | 0.21 | 17.8 | 8 | 5.0 | 6.5 | 0.301 | 0.152 | 0.23 |
| 107468 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.20 | 11.5 | 22 | 12.2 | 0.8 | 0.284 | 0.098 | 0.01 |
| 107469 | 2.3 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.25 | 60.8 | 27 | 13.1 | 1.4 | 0.198 | 0.106 | 0.01 |
| 107470 | 1.2 | 0.2 | 1.6 | 2.5 | 0.001 | 0.20 | 24.3 | 14 | 4.7 | 1.3 | 0.916 | 0.117 | 0.07 |
| 107471 | 1.4 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.19 | 10.6 | 24 | 10.9 | 0.7 | 0.173 | 0.077 | 0.01 |
| 107472 | 2.2 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 10.5 | 29 | 12.7 | 0.6 | 0.102 | 0.093 | < 0.01 |
| 107473 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.14 | 8.6 | 29 | 15.2 | 0.7 | 0.156 | 0.085 | 0.01 |
| 107474 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.25 | 10.5 | 33 | 13.3 | 0.6 | 0.132 | 0.064 | < 0.01 |
| 107475 | 2.1 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 13.1 | 29 | 18.5 | 1.2 | 0.185 | 0.105 | 0.03 |
| 107476 | 4.0 | 0.5 | < 0.1 | < 0.1 | 0.003 | 0.19 | 16.6 | 28 | 25.4 | 1.4 | 0.319 | 0.258 | 0.02 |
| 107477 | 1.7 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 13.0 | 25 | 15.7 | 0.9 | 0.232 | 0.103 | < 0.01 |
| 107478 | 1.1 | 0.2 | 0.1 | 0.2 | 0.001 | 0.34 | 22.3 | 34 | 20.2 | 0.2 | 0.470 | 0.018 | 0.05 |
| 107479 | 1.7 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.22 | 15.3 | 27 | 12.8 | 0.9 | 0.225 | 0.103 | < 0.01 |
| 107480 | 1.7 | 0.2 | < 0.1 | 0.7 | 0.005 | 0.24 | 14.8 | 16 | 15.8 | 2.6 | 0.299 | 0.137 | 0.15 |
| 107481 | 2.4 | 0.3 | < 0.1 | < 0.1 | 0.001 | 0.25 | 27.2 | 20 | 42.9 | 2.3 | 0.305 | 0.284 | 0.02 |
| 107482 | 1.9 | 0.3 | 0.3 | 0.3 | < 0.001 | 0.10 | 146 | 17 | 59.7 | 1.3 | 0.315 | 0.149 | 0.02 |
| 107483 | 2.5 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.22 | 25.8 | 23 | 22.7 | 1.5 | 0.229 | 0.145 | 0.04 |
| 107484 | 1.7 | 0.2 | < 0.1 | 0.1 | 0.001 | 0.38 | 18.9 | 17 | 24.3 | 1.2 | 0.299 | 0.109 | 0.01 |
| 107485 | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.21 | 19.6 | 18 | 23.0 | 3.2 | 0.278 | 0.279 | 0.03 |
| 107486 | 2.2 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.18 | 15.8 | 26 | 12.9 | 7.8 | 0.208 | 0.258 | 0.03 |
| 107487 | 3.7 | 0.5 | < 0.1 | 1.0 | 0.001 | 0.09 | 10.6 | 23 | 22.1 | 10.5 | 0.315 | 0.294 | 0.02 |
| 107488 | 6.7 | 0.9 | 3.8 | 0.9 | < 0.001 | 0.21 | 26.0 | 23 | 51.1 | 13.4 | 0.224 | 1.86 | 0.06 |
| 107489 | 3.8 | 0.5 | < 0.1 | < 0.1 | 0.001 | 0.27 | 19.3 | 24 | 24.9 | 4.2 | 0.0368 | 0.852 | < 0.01 |
| 107490 | 2.3 | 0.3 | 0.9 | 0.6 | < 0.001 | 0.28 | 16.4 | 18 | 22.8 | 3.0 | 0.488 | 0.293 | < 0.01 |
| 107491 | 1.4 | 0.2 | 0.4 | < 0.1 | 0.001 | 0.16 | 3.7 | 41 | 3.9 | 0.6 | 0.447 | 0.021 | < 0.01 |
| 107492 | 2.2 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 16.4 | 25 | 15.3 | 1.4 | 0.221 | 0.143 | < 0.01 |
| 107493 | 2.2 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.27 | 14.6 | 21 | 16.0 | 1.2 | 0.341 | 0.177 | < 0.01 |
| 107494 | 2.4 | 0.3 | 0.1 | < 0.1 | < 0.001 | 0.25 | 32.1 | 24 | 25.4 | 1.9 | 0.386 | 0.238 | 0.02 |
| 107495 | 3.1 | 0.4 | 6.7 | 2.1 | < 0.001 | 0.32 | 38.7 | 24 | 69.7 | 11.5 | 0.632 | 0.442 | 0.01 |
| 107496 | 5.8 | 0.8 | < 0.1 | 1.8 | 0.004 | 0.51 | 54.6 | 24 | 22.3 | 146 | 0.246 | 0.612 | 0.14 |
| 107497 | 8.0 | 1.1 | 0.5 | 0.1 | 0.001 | 0.81 | 27.7 | 20 | 81.7 | 12.0 | 0.0760 | 1.05 | 0.05 |
| 107498 | 12.7 | 1.5 | 0.5 | 2.0 | 0.002 | 0.26 | 36.2 | 22 | 115 | 12.0 | 0.0725 | 2.47 | 0.17 |
| 107499 | 3.6 | 0.5 | 0.7 | 0.4 | < 0.001 | 0.55 | 26.9 | 18 | 30.7 | 5.1 | 0.122 | 0.461 | 0.01 |
| 107500 | 2.5 | 0.3 | 0.9 | 1.7 | < 0.001 | 0.40 | 23.2 | 19 | 22.3 | 3.7 | 0.412 | 0.297 | < 0.01 |
| 107501 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.21 | 16.9 | 22 | 8.5 | 1.2 | 0.172 | 0.191 | 0.01 |
| 107502 | 5.1 | 0.7 | < 0.1 | 0.8 | 0.002 | 0.16 | 212 | 39 | > 200 | 105 | 0.0120 | 2.72 | 0.03 |
| 107503 | 1.5 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 17.3 | 15 | 18.3 | 3.8 | 0.210 | 0.079 | < 0.01 |
| 107504 | 1.0 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 11.3 | 13 | 8.5 | 14.8 | 0.273 | 0.111 | 0.06 |
| 107505 | 1.8 | 0.2 | 2.1 | 1.3 | < 0.001 | 0.37 | 21.2 | 15 | 17.5 | 6.7 | 0.480 | 0.254 | 0.02 |
| 107506 | 1.2 | 0.1 | 0.6 | 0.5 | < 0.001 | 0.38 | 18.0 | 11 | 14.2 | 1.5 | 0.289 | 0.129 | < 0.01 |
| 107507 | 1.0 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.35 | 18.4 | 13 | 8.5 | 1.1 | 0.228 | 0.048 | < 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107508 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.41 | 15.5 | 12 | 8.1 | 1.7 | 0.265 | 0.059 | < 0.01 |
| 107509 | 0.9 | 0.1 | 0.7 | 1.4 | 0.003 | 0.31 | 13.3 | 9 | 3.6 | 1.0 | 0.405 | 0.070 | < 0.01 |
| 107510 | 1.2 | 0.2 | < 0.1 | 0.2 | 0.002 | 0.38 | 15.7 | 13 | 7.4 | 1.4 | 0.142 | 0.047 | < 0.01 |
| 107511 | 1.3 | 0.2 | 0.4 | 0.9 | 0.005 | 0.30 | 11.0 | 15 | 8.3 | 61.6 | 0.339 | 0.145 | 0.11 |
| 107512 | 1.2 | 0.2 | 0.1 | 0.5 | 0.001 | 0.33 | 14.8 | 11 | 7.8 | 21.9 | 0.288 | 0.104 | 0.03 |
| 107513 | 1.1 | 0.1 | < 0.1 | < 0.1 | < 0.001 | 0.37 | 15.5 | 12 | 8.3 | 1.1 | 0.248 | 0.063 | < 0.01 |
| 107514 | 2.5 | 0.3 | < 0.1 | 0.1 | < 0.001 | 0.42 | 17.1 | 19 | 24.0 | 2.4 | 0.334 | 0.245 | 0.02 |
| 107515 | 1.1 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.41 | 15.8 | 12 | 11.6 | 33.4 | 0.233 | 0.076 | 0.03 |
| 107516 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.002 | 0.42 | 16.8 | 11 | 11.0 | 4.5 | 0.193 | 0.036 | 0.02 |
| 107517 | 0.9 | 0.1 | 0.2 | 0.2 | 0.001 | 0.29 | 12.4 | 11 | 7.3 | 81.9 | 0.293 | 0.103 | 0.08 |
| 107518 | 0.9 | 0.1 | 1.7 | 0.6 | < 0.001 | 0.34 | 15.4 | 8 | 5.1 | 2.2 | 0.308 | 0.104 | 0.01 |
| 107519 | 1.1 | 0.2 | 0.1 | 0.1 | 0.002 | 0.37 | 15.6 | 11 | 9.8 | 1.5 | 0.295 | 0.066 | < 0.01 |
| 107520 | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.31 | 14.3 | 11 | 6.6 | 1.0 | 0.275 | 0.044 | < 0.01 |
| 107521 | 1.1 | 0.2 | < 0.1 | < 0.1 | < 0.001 | 0.32 | 14.9 | 12 | 10.8 | 1.1 | 0.243 | 0.051 | < 0.01 |
| 107522 | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 13.4 | 16 | 8.1 | 2.9 | 0.288 | 0.118 | 0.07 |
| 107523 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.30 | 10.7 | 17 | 6.9 | 1.3 | 0.261 | 0.084 | 0.04 |
| 107524 | 1.2 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.34 | 13.3 | 16 | 7.5 | 1.8 | 0.121 | 0.063 | < 0.01 |
| 107525 | 1.0 | 0.1 | < 0.1 | < 0.1 | 0.001 | 0.23 | 12.0 | 16 | 8.5 | 1.7 | 0.213 | 0.106 | < 0.01 |
| 107526 | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.28 | 12.6 | 21 | 10.6 | 1.7 | 0.182 | 0.152 | < 0.01 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|-------|--------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | | 8.4 | 0.05 | 0.20 | 2.06 | 0.04 | 0.76 | 2.4 | 74 | 10.2 | 778 | 24.9 | 0.4 | 40.3 | | 0.9 | | 34.1 | 2.86 | 8.2 | 0.58 | 1580 | 16.0 | 796 |
| GXR-1 Cert | | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | 12.2 | 0.51 | 1.67 | 6.27 | 2.83 | 0.89 | < 0.1 | 80 | 38.6 | 138 | 3.16 | 1.2 | 41.5 | | 2.0 | | 2.49 | 2.75 | 15.1 | 1.35 | 19.3 | 6.1 | 73.5 |
| GXR-4 Cert | | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Meas | | 35.9 | 1.45 | 0.95 | 7.42 | 2.24 | 0.88 | < 0.1 | 35 | 38.8 | 755 | 4.70 | | 34.6 | | 2.7 | | < 0.05 | | 18.1 | | 0.23 | | 99.9 |
| SDC-1 Cert | | 34.0 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102 | 64.0 | 883 | 4.82 | | 38.0 | | 3.00 | | 0.0410 | | 17.9 | | 2.60 | | 103 |
| SDC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | 44.5 | 0.62 | 1.44 | 6.29 | 1.88 | 1.53 | 0.1 | 106 | 41.6 | 330 | 3.41 | | 26.5 | | 1.7 | | < 0.05 | | 11.0 | | 0.34 | | 96.4 |
| SCO-1 Cert | | 45.0 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 131 | 68.0 | 410 | 3.59 | | 27.0 | | 1.84 | | 0.134 | | 10.5 | | 0.370 | | 103 |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | 33.8 | 0.09 | 0.49 | > 10.0 | 1.45 | 0.13 | 0.1 | 127 | 53.4 | 870 | 5.21 | 1.9 | 23.9 | | 1.0 | | < 0.05 | 3.79 | 13.1 | 0.47 | 0.14 | 0.8 | 121 |
| GXR-6 Cert | | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | 4.6 | | | | | | | 127 | 157 | | | | 260 | | | | | | 55.8 | 0.49 | | | 61.3 |
| DNC-1a Cert | | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | 70.0 |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | > 5000 | | | | 2220 | | | | 1.05 | | 75.7 | | | | 130 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | | 2247 | | | | 0.86 | | 75 | | | | 133 |
| CDN-GS-1H Meas | 1050 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | 1070 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 258 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 242 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 230 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 92912 Orig | | 20.3 | 2.43 | 1.15 | 6.57 | 1.57 | 1.46 | 0.1 | 50 | 70.4 | 513 | 4.41 | 0.9 | 45.4 | 1.4 | 1.7 | 0.5 | 0.06 | 1.95 | 18.2 | 1.43 | 0.04 | 0.8 | 62.5 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92912 Dup | | 19.7 | 2.33 | 1.11 | 6.33 | 1.65 | 1.39 | 0.1 | 40 | 69.5 | 482 | 4.16 | 0.7 | 43.0 | 1.4 | 1.8 | 0.5 | 0.08 | 1.90 | 16.9 | 1.35 | 0.03 | 0.5 | 59.6 |
| 92673 Orig | | 26.3 | 2.69 | 1.67 | 5.54 | 1.17 | 1.39 | 0.1 | 94 | 255 | 1050 | 6.62 | 2.4 | 152 | 2.1 | 4.5 | 0.8 | < 0.05 | 2.13 | 33.6 | 2.80 | 0.05 | 1.0 | 94.8 |
| 92673 Dup | | 28.8 | 2.95 | 1.82 | 6.17 | 1.29 | 1.56 | 0.1 | 96 | 256 | 1100 | 7.20 | 2.4 | 169 | 2.2 | 4.3 | 0.9 | < 0.05 | 2.23 | 36.5 | 2.98 | 0.06 | 0.8 | 100 |
| 92676 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92676 Dup | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92694 Orig | | 43.0 | > 3.00 | 2.61 | 6.66 | 1.71 | 1.08 | 0.1 | 74 | 304 | 1280 | 7.33 | 2.1 | 222 | 2.6 | 7.4 | 1.0 | < 0.05 | 3.24 | 45.6 | 2.98 | 0.03 | 1.1 | 116 |
| 92694 Dup | | 40.0 | 2.83 | 2.24 | 4.72 | 0.78 | 0.96 | 0.1 | 186 | 357 | 1220 | 6.97 | 3.7 | 217 | 2.1 | 7.5 | 0.8 | < 0.05 | 2.45 | 44.3 | 2.33 | 0.03 | 0.5 | 106 |
| 107306 Orig | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107306 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107308 Orig | | 28.2 | > 3.00 | 2.01 | 6.47 | 1.03 | 0.88 | < 0.1 | 40 | 241 | 1130 | 6.73 | < 0.1 | 184 | 1.9 | 7.5 | 0.7 | < 0.05 | 3.02 | 39.0 | 2.10 | 0.02 | 0.6 | 83.0 |
| 107308 Dup | | 25.9 | > 3.00 | 1.87 | 5.81 | 0.92 | 0.81 | < 0.1 | 39 | 237 | 1060 | 6.32 | 0.1 | 175 | 1.6 | 5.7 | 0.6 | < 0.05 | 2.86 | 36.8 | 1.81 | < 0.02 | 0.8 | 74.6 |
| 107329 Orig | | 29.3 | 2.71 | 1.73 | 6.35 | 1.51 | 1.22 | < 0.1 | 54 | 129 | 530 | 5.20 | 1.4 | 106 | 1.8 | 3.8 | 0.7 | < 0.05 | 2.28 | 24.1 | 2.01 | 0.08 | 0.6 | 83.4 |
| 107329 Dup | | 31.4 | > 3.00 | 1.87 | 6.99 | 1.65 | 1.35 | < 0.1 | 84 | 142 | 569 | 5.60 | 0.9 | 113 | 2.0 | 4.2 | 0.8 | < 0.05 | 2.46 | 25.8 | 2.25 | 0.06 | 1.4 | 91.4 |
| 107336 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107336 Dup | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 107343 Orig | | 21.5 | 2.31 | 1.03 | 6.70 | 2.00 | 1.56 | < 0.1 | 55 | 60.4 | 467 | 3.46 | 1.9 | 32.7 | 1.4 | 1.4 | 0.5 | < 0.05 | 1.90 | 11.0 | 1.07 | 0.05 | 0.7 | 50.9 |
| 107343 Dup | | 18.9 | 2.11 | 0.84 | 4.57 | 0.86 | 1.26 | < 0.1 | 54 | 61.6 | 433 | 2.98 | 4.1 | 28.7 | 1.0 | 1.1 | 0.4 | < 0.05 | 1.44 | 9.7 | 0.65 | 0.05 | 0.6 | 44.2 |
| 107365 Orig | | 27.2 | 2.67 | 1.57 | 5.57 | 1.30 | 1.85 | 0.1 | 107 | 135 | 868 | 5.55 | 0.5 | 96.9 | 2.5 | 5.2 | 1.0 | < 0.05 | 1.93 | 25.6 | 3.28 | 0.05 | 0.5 | 84.1 |
| 107365 Dup | | 29.6 | 2.87 | 1.74 | 6.10 | 1.40 | 2.01 | 0.1 | 120 | 183 | 932 | 6.09 | 1.0 | 102 | 2.6 | 5.9 | 1.0 | < 0.05 | 2.03 | 27.5 | 3.46 | 0.16 | 0.7 | 87.3 |
| 107382 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107382 Dup | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107391 Orig | | 30.7 | > 3.00 | 2.29 | 5.76 | 1.00 | 1.19 | 0.1 | 116 | 347 | 1070 | 7.76 | 2.6 | 229 | 2.3 | 6.7 | 0.9 | < 0.05 | 3.29 | 45.6 | 2.69 | 0.10 | 1.2 | 101 |
| 107391 Dup | | 30.8 | 2.99 | 2.31 | 5.76 | 0.99 | 1.18 | 0.2 | 92 | 344 | 1040 | 7.57 | 2.6 | 231 | 2.3 | 6.6 | 0.9 | < 0.05 | 3.43 | 45.6 | 2.72 | 0.08 | 0.9 | 101 |
| 107405 Orig | | 23.3 | 1.91 | 0.71 | 3.81 | 0.53 | 2.79 | 0.1 | 140 | 65.4 | 783 | 6.37 | < 0.1 | 32.9 | 4.3 | 3.0 | 2.0 | < 0.05 | 1.05 | 18.6 | 10.9 | 0.17 | 1.4 | 70.6 |
| 107405 Dup | | 29.1 | 2.43 | 0.89 | 4.84 | 0.67 | 3.48 | 0.2 | 170 | 75.6 | 1020 | 7.83 | < 0.1 | 41.5 | 5.4 | 3.8 | 2.4 | < 0.05 | 1.28 | 22.9 | 13.5 | 0.17 | 1.3 | 68.6 |
| 107412 Orig | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 107412 Dup | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107426 Orig | | 10.9 | 2.36 | 0.62 | 5.99 | 1.67 | 1.15 | < 0.1 | 18 | 39.5 | 245 | 2.81 | 0.8 | 13.8 | 0.9 | 1.0 | 0.3 | < 0.05 | 1.51 | 5.2 | 0.72 | 0.04 | 0.2 | 31.9 |
| 107426 Dup | | 10.6 | 2.31 | 0.61 | 5.92 | 1.66 | 1.15 | < 0.1 | 18 | 40.0 | 240 | 2.81 | 3.2 | 14.2 | 1.0 | 0.9 | 0.3 | < 0.05 | 1.51 | 5.2 | 0.72 | 0.04 | 0.4 | 31.4 |
| 107440 Orig | | 43.5 | 2.68 | 2.41 | 5.61 | 1.44 | 1.99 | 0.2 | 152 | 271 | 896 | 7.01 | 3.6 | 193 | 2.9 | 7.8 | 1.1 | < 0.05 | 2.08 | 34.7 | 4.13 | 0.13 | 0.6 | 147 |
| 107440 Dup | | 47.4 | 2.87 | 2.64 | 6.36 | 1.57 | 2.23 | 0.3 | 153 | 288 | 932 | 7.44 | 3.1 | 208 | 3.3 | 7.7 | 1.3 | < 0.05 | 2.32 | 36.9 | 4.74 | 0.14 | 0.6 | 154 |
| 107442 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107442 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107461 Orig | | 28.9 | > 3.00 | 2.00 | 7.10 | 1.50 | 0.95 | 0.3 | 107 | 230 | 1890 | 10.7 | 2.0 | 173 | 2.7 | 7.1 | 1.1 | < 0.05 | 2.72 | 60.4 | 3.39 | 0.05 | 0.2 | 121 |
| 107461 Dup | | 28.1 | > 3.00 | 2.00 | 7.20 | 1.53 | 0.97 | 0.2 | 77 | 198 | 1890 | 10.8 | 0.9 | 174 | 2.8 | 7.2 | 1.1 | < 0.05 | 2.69 | 59.9 | 3.43 | 0.06 | < 0.1 | 122 |
| 107475 Orig | | 37.1 | > 3.00 | 2.42 | 6.05 | 0.75 | 1.08 | 0.2 | 61 | 339 | 1200 | 8.87 | 1.3 | 244 | 2.6 | 8.0 | 1.0 | < 0.05 | 3.87 | 49.0 | 3.38 | 0.04 | 0.6 | 126 |
| 107475 Dup | | 40.9 | > 3.00 | 2.61 | 6.41 | 0.83 | 1.14 | 0.2 | 71 | 385 | 1270 | 9.27 | 1.7 | 252 | 2.8 | 10.1 | 1.1 | < 0.05 | 3.92 | 50.9 | 3.52 | 0.05 | 0.7 | 131 |
| 107487 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107487 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107496 Orig | | 17.3 | 0.12 | 1.85 | 2.34 | 1.28 | 4.58 | 0.7 | 267 | 135 | 1420 | 8.21 | < 0.1 | 136 | 8.3 | 6.2 | 3.3 | 0.13 | 2.62 | 29.9 | 7.82 | 0.12 | 1.5 | 268 |
| 107496 Dup | | 17.1 | 0.11 | 1.77 | 2.24 | 1.27 | 4.48 | 0.7 | 282 | 144 | 1390 | 8.41 | < 0.1 | 141 | 8.2 | 5.2 | 3.3 | < 0.05 | 2.62 | 30.2 | 7.69 | 0.13 | 2.1 | 288 |
| 107517 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107517 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107522 Orig | | 15.2 | 1.59 | 1.08 | 5.29 | 1.48 | 1.79 | 0.1 | 71 | 74.1 | 640 | 3.82 | 0.4 | 37.9 | 1.5 | 1.6 | 0.5 | 0.10 | 2.16 | 15.1 | 1.02 | 0.04 | 0.8 | 44.2 |
| 107522 Dup | | 16.3 | 1.64 | 1.06 | 5.41 | 1.51 | 1.83 | 0.1 | 75 | 75.5 | 636 | 3.83 | 0.4 | 38.8 | 1.5 | 1.7 | 0.5 | 0.15 | 2.18 | 15.2 | 1.11 | 0.03 | 0.8 | 44.8 |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 0.5 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.1 | < 1 | < 0.5 | < 1 | < 0.01 | < 0.1 | < 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.05 | < 0.1 | < 0.05 | < 0.02 | < 0.1 | < 0.2 |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 10.4 | 383 | 2.6 | 27.1 | 276 | 20 | 0.8 | 16.4 | 0.7 | 27 | 35.6 | 10.6 | 641 | 6.9 | 13.8 | | 8.0 | 2.7 | 3.9 | 0.7 | 4.7 | 1200 | | 0.4 |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 16.6 | 88.4 | 128 | 12.6 | 199 | 40 | 8.6 | 302 | 0.2 | 7 | 4.2 | 1.1 | 132 | 53.5 | 102 | | 38.9 | 6.0 | 4.6 | 0.5 | 2.7 | 6710 | | 0.2 |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Meas | | < 0.1 | | 29.3 | 157 | 31 | | < 0.1 | | < 1 | < 0.1 | | 556 | | | | | | | | | 29.5 | | |
| SDC-1 Cert | | 0.220 | | 40.0 | 183 | 290 | | 0.250 | | 3.00 | 0.540 | | 630 | | | | | | | | | 30.0 | | |
| SDC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | 8.4 | | 17.2 | 145 | 65 | | 0.3 | | 2 | 0.6 | | 492 | | | | | | | | | 27.2 | | |
| SCO-1 Cert | | 12.4 | | 26.0 | 174 | 160 | | 1.37 | | 3.70 | 2.50 | | 570 | | | | | | | | | 28.7 | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | 24.9 | 233 | 65.9 | 9.3 | 30.3 | 71 | 1.7 | 0.7 | < 0.1 | < 1 | 1.3 | < 0.1 | 1000 | 9.2 | 25.2 | | 9.2 | 2.0 | 1.9 | 0.3 | 1.9 | 65.5 | | 0.2 |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | 14.2 | 124 | 32 | | | | | 0.6 | | 86 | 3.2 | | | 4.3 | | | | | 92.8 | | |
| DNC-1a Cert | | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | 5.20 | | | | | 100 | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | 41.9 | | | | | | 8.4 | | | | | | | | | | | | | | 2260 | | |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | 2300.000 | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 92912 Orig | 15.8 | 0.7 | 65.5 | 13.8 | 281 | 67 | 0.9 | < 0.1 | < 0.1 | < 1 | < 0.1 | 0.1 | 581 | 72.4 | 124 | 13.1 | 43.8 | 6.3 | 4.8 | 0.5 | 3.0 | 37.4 | 0.3 | 0.2 |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.1 |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 2.1 | 0.3 | < 0.1 | 130 | | 0.37 | 772 | 2 | 2.9 | 30.6 | | 0.057 | 0.23 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| GXR-1 Meas | | | | | | | | 1 | | | | 0.058 | 0.23 |
| GXR-1 Cert | | | | | | | | 1.58 | | | | 0.0650 | 0.257 |
| GXR-1 Meas | | | | | | | | 1 | | | | 0.050 | 0.25 |
| GXR-1 Cert | | | | | | | | 1.58 | | | | 0.0650 | 0.257 |
| GXR-4 Meas | 1.0 | 0.1 | 0.6 | 32.7 | | 2.84 | 48.4 | 8 | 17.3 | 5.0 | | 0.134 | 1.80 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| GXR-4 Meas | | | | | | | | 8 | | | | 0.133 | 1.79 |
| GXR-4 Cert | | | | | | | | 7.70 | | | | 0.120 | 1.77 |
| GXR-4 Meas | | | | | | | | 8 | | | | 0.111 | 1.77 |
| GXR-4 Cert | | | | | | | | 7.70 | | | | 0.120 | 1.77 |
| SDC-1 Meas | | | | 0.2 | | | 22.2 | 17 | | | 0.129 | 0.054 | 0.06 |
| SDC-1 Cert | | | | 0.800 | | | 25.0 | 17.0 | | | 0.606 | 0.0690 | 0.0650 |
| SDC-1 Meas | | | | | | | | 17 | | | 0.111 | 0.054 | 0.06 |
| SDC-1 Cert | | | | | | | | 17.0 | | | 0.606 | 0.0690 | 0.0650 |
| SDC-1 Meas | | | | | | | | 16 | | | 0.151 | 0.047 | 0.06 |
| SDC-1 Cert | | | | | | | | 17.0 | | | 0.606 | 0.0690 | 0.0650 |
| SCO-1 Meas | | | | 0.4 | | | 29.7 | 13 | | | 0.294 | 0.082 | |
| SCO-1 Cert | | | | 1.40 | | | 31.0 | 10.8 | | | 0.380 | 0.0900 | |
| SCO-1 Meas | | | | | | | | 13 | | | 0.312 | 0.078 | |
| SCO-1 Cert | | | | | | | | 10.8 | | | 0.380 | 0.0900 | |
| SCO-1 Meas | | | | | | | | 12 | | | 0.341 | 0.072 | |
| SCO-1 Cert | | | | | | | | 10.8 | | | 0.380 | 0.0900 | |
| GXR-6 Meas | 1.3 | 0.2 | < 0.1 | 0.6 | | 1.69 | 90.2 | 31 | 4.0 | 1.1 | | 0.035 | 0.01 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 |
| GXR-6 Meas | | | | | | | | 32 | | | | 0.037 | 0.01 |
| GXR-6 Cert | | | | | | | | 27.6 | | | | 0.0350 | 0.0160 |
| GXR-6 Meas | | | | | | | | 55 | | | | 0.068 | 0.03 |
| GXR-6 Cert | | | | | | | | 27.6 | | | | 0.0350 | 0.0160 |
| DNC-1a Meas | 1.7 | | | | | | | 31 | | | | | |
| DNC-1a Cert | 2.00 | | | | | | | 31.0 | | | | | |
| DNC-1a Meas | | | | | | | | 31 | | | | | |
| DNC-1a Cert | | | | | | | | 31.0 | | | | | |
| DNC-1a Meas | | | | | | | | 32 | | | | | |
| DNC-1a Cert | | | | | | | | 31.0 | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.11 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.08 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.14 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| 92912 Orig | 1.2 | 0.2 | < 0.1 | 0.4 | 0.004 | 0.36 | 15.1 | 13 | 9.6 | 5.9 | 0.194 | 0.053 | 0.02 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 92912 Dup | 1.2 | 0.2 | < 0.1 | 0.4 | 0.005 | 0.35 | 14.7 | 13 | 9.4 | 5.7 | 0.144 | 0.054 | 0.02 |
| 92673 Orig | 1.7 | 0.2 | < 0.1 | 0.2 | 0.003 | 0.23 | 14.4 | 21 | 14.0 | 1.1 | 0.328 | 0.112 | 0.03 |
| 92673 Dup | 1.8 | 0.3 | < 0.1 | 0.2 | 0.005 | 0.26 | 15.5 | 20 | 13.9 | 1.3 | 0.274 | 0.113 | 0.02 |
| 92676 Orig | | | | | | | | | | | | | |
| 92676 Dup | | | | | | | | | | | | | |
| 92694 Orig | 2.1 | 0.3 | < 0.1 | < 0.1 | 0.004 | 0.26 | 25.2 | 24 | 14.0 | 0.8 | 0.212 | 0.095 | < 0.01 |
| 92694 Dup | 1.7 | 0.2 | 1.6 | 3.9 | 0.001 | 0.27 | 24.7 | 35 | 6.1 | 0.8 | 1.04 | 0.120 | 0.02 |
| 107306 Orig | | | | | | | | | | | | | |
| 107306 Dup | | | | | | | | | | | | | |
| 107308 Orig | 1.5 | 0.2 | < 0.1 | 0.1 | 0.003 | 0.21 | 12.2 | 21 | 12.2 | 0.8 | 0.0953 | 0.082 | 0.02 |
| 107308 Dup | 1.4 | 0.2 | < 0.1 | 0.1 | 0.003 | 0.19 | 10.8 | 22 | 10.1 | 0.6 | 0.107 | 0.077 | < 0.01 |
| 107329 Orig | 1.5 | 0.2 | < 0.1 | < 0.1 | 0.003 | 0.28 | 12.0 | 17 | 11.1 | 1.6 | 0.198 | 0.097 | 0.02 |
| 107329 Dup | 1.6 | 0.2 | < 0.1 | < 0.1 | 0.034 | 0.30 | 13.1 | 17 | 12.2 | 1.0 | 0.302 | 0.099 | 0.02 |
| 107336 Orig | | | | | | | | | | | | | |
| 107336 Dup | | | | | | | | | | | | | |
| 107343 Orig | 1.1 | 0.2 | 0.2 | 0.2 | 0.005 | 0.41 | 16.4 | 11 | 9.2 | 1.9 | 0.287 | 0.068 | 0.01 |
| 107343 Dup | 0.9 | 0.1 | 0.5 | 0.5 | 0.002 | 0.36 | 14.6 | 21 | 5.1 | 1.2 | 0.298 | 0.084 | 0.02 |
| 107365 Orig | 2.0 | 0.3 | < 0.1 | 0.2 | 0.002 | 0.24 | 13.7 | 16 | 15.9 | 3.4 | 0.319 | 0.154 | 0.02 |
| 107365 Dup | 2.1 | 0.3 | 0.4 | 0.4 | < 0.001 | 0.24 | 14.2 | 18 | 17.0 | 3.9 | 0.466 | 0.221 | 0.04 |
| 107382 Orig | | | | | | | | | | | | | |
| 107382 Dup | | | | | | | | | | | | | |
| 107391 Orig | 1.8 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.21 | 13.2 | 29 | 13.2 | 0.7 | 0.469 | 0.104 | 0.03 |
| 107391 Dup | 1.9 | 0.3 | < 0.1 | < 0.1 | 0.003 | 0.22 | 13.3 | 30 | 13.0 | 0.7 | 0.351 | 0.106 | 0.03 |
| 107405 Orig | 2.5 | 0.3 | < 0.1 | < 0.1 | 0.005 | 0.16 | 56.0 | 13 | 78.6 | 29.7 | 0.0441 | 0.896 | < 0.01 |
| 107405 Dup | 3.1 | 0.4 | < 0.1 | < 0.1 | 0.001 | 0.18 | 67.5 | 13 | 95.4 | 29.4 | 0.0596 | 0.915 | 0.01 |
| 107412 Orig | | | | | | | | | | | | | |
| 107412 Dup | | | | | | | | | | | | | |
| 107426 Orig | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.101 | 0.38 | 17.0 | 10 | 8.0 | 0.9 | 0.102 | 0.015 | < 0.01 |
| 107426 Dup | 0.9 | 0.1 | < 0.1 | < 0.1 | 0.004 | 0.38 | 16.7 | 10 | 9.4 | 1.0 | 0.104 | 0.021 | < 0.01 |
| 107440 Orig | 2.2 | 0.3 | 2.1 | 2.1 | 0.003 | 0.29 | 21.9 | 21 | 21.3 | 3.0 | 0.611 | 0.263 | 0.02 |
| 107440 Dup | 2.6 | 0.3 | 1.0 | 1.2 | 0.001 | 0.30 | 24.2 | 23 | 22.0 | 2.3 | 0.571 | 0.286 | 0.02 |
| 107442 Orig | | | | | | | | | | | | | |
| 107442 Dup | | | | | | | | | | | | | |
| 107461 Orig | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 14.0 | 28 | 15.2 | 0.7 | 0.180 | 0.104 | 0.02 |
| 107461 Dup | 2.0 | 0.3 | < 0.1 | < 0.1 | 0.002 | 0.19 | 14.1 | 28 | 15.7 | 0.8 | 0.129 | 0.107 | 0.01 |
| 107475 Orig | 2.0 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.20 | 13.0 | 29 | 18.4 | 1.2 | 0.167 | 0.105 | 0.03 |
| 107475 Dup | 2.1 | 0.3 | < 0.1 | < 0.1 | < 0.001 | 0.19 | 13.1 | 29 | 18.5 | 1.2 | 0.202 | 0.105 | 0.03 |
| 107487 Orig | | | | | | | | | | | | | |
| 107487 Dup | | | | | | | | | | | | | |
| 107496 Orig | 5.8 | 0.8 | < 0.1 | 1.5 | 0.003 | 0.51 | 54.0 | 23 | 22.4 | 144 | 0.223 | 0.603 | 0.12 |
| 107496 Dup | 5.8 | 0.8 | < 0.1 | 2.2 | 0.006 | 0.51 | 55.3 | 25 | 22.3 | 149 | 0.269 | 0.621 | 0.15 |
| 107517 Orig | | | | | | | | | | | | | |
| 107517 Dup | | | | | | | | | | | | | |
| 107522 Orig | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.001 | 0.33 | 13.5 | 16 | 8.0 | 2.9 | 0.275 | 0.116 | 0.07 |
| 107522 Dup | 1.3 | 0.2 | < 0.1 | < 0.1 | 0.002 | 0.32 | 13.4 | 16 | 8.2 | 2.9 | 0.301 | 0.120 | 0.06 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | 0.0050 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |

| Quality Control | | | | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| Method Blank Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 1 | < 0.1 | < 0.1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank Method Blank | | | | | | | | | | | | | |
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| Method Blank Method Blank | | | | | | | | | | | | | |



Date Submitted: 12-Oct-11
Invoice No.: A11-11876
Invoice Date: 08-Nov-11
Your Reference: Batch #17

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

439 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A11-11876**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized and somewhat illegible due to the cursive nature of the writing.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107527 | | 17.8 | 2.76 | 1.79 | 5.32 | 0.70 | 2.43 | 0.1 | 174 | 97.6 | 1380 | 6.21 | 2.8 | 80.5 | 1.3 | 2.9 | 0.5 | < 0.05 | 1.95 | 38.4 | 1.85 | 0.28 | 0.8 | 100 |
| 107528 | | 25.2 | 2.21 | 2.23 | 6.18 | 1.86 | 3.27 | 0.3 | 129 | 102 | 1410 | 4.93 | 3.9 | 55.6 | 3.0 | 4.2 | 1.2 | < 0.05 | 1.82 | 22.0 | 4.57 | 0.32 | 0.5 | 94.3 |
| 107529 | < 5 | 12.0 | > 3.00 | 0.99 | 6.58 | 1.48 | 0.85 | 0.2 | 128 | 87.8 | 256 | 5.01 | 4.5 | 39.5 | 0.9 | 2.0 | 0.3 | < 0.05 | 1.66 | 13.9 | 0.68 | 0.20 | < 0.1 | 51.6 |
| 107530 | | 27.4 | 2.71 | 1.55 | 6.71 | 1.86 | 1.75 | 0.2 | 112 | 86.5 | 805 | 4.85 | 4.6 | 57.7 | 2.0 | 2.9 | 0.8 | < 0.05 | 1.90 | 22.5 | 2.40 | 0.20 | 0.3 | 68.9 |
| 107531 | | 59.5 | 2.16 | 1.92 | 4.58 | 1.76 | 3.18 | 0.8 | 128 | 134 | 3360 | 6.24 | 4.6 | 69.5 | 4.9 | 5.4 | 2.1 | < 0.05 | 1.01 | 23.5 | 9.93 | 0.43 | 1.4 | 259 |
| 107532 | < 5 | 45.6 | 2.05 | 1.77 | 5.50 | 1.69 | 2.78 | 0.5 | 121 | 164 | 3210 | 6.16 | 3.9 | 89.2 | 4.7 | 4.9 | 2.0 | < 0.05 | 1.89 | 23.8 | 8.34 | 0.28 | 1.1 | 155 |
| 107533 | | 112 | 2.15 | 2.53 | 6.41 | 1.64 | 2.10 | 0.3 | 130 | 206 | 1920 | 6.72 | 4.3 | 104 | 4.0 | 6.7 | 1.7 | < 0.05 | 1.78 | 26.3 | 7.37 | 0.31 | 0.8 | 154 |
| 107534 | | 64.7 | 2.49 | 2.45 | 6.87 | 2.38 | 3.00 | 0.2 | 114 | 174 | 1130 | 5.30 | 4.4 | 101 | 3.2 | 5.9 | 1.3 | < 0.05 | 2.11 | 21.8 | 5.60 | 0.21 | 0.4 | 139 |
| 107535 | < 5 | 37.5 | 2.39 | 1.70 | 6.75 | 2.05 | 2.20 | 0.2 | 92 | 105 | 973 | 4.37 | 5.0 | 60.7 | 2.4 | 3.5 | 0.9 | < 0.05 | 1.79 | 17.2 | 3.35 | 0.18 | 0.2 | 81.1 |
| 107536 | | 81.5 | 2.01 | 2.13 | 6.06 | 1.83 | 2.93 | 0.5 | 112 | 216 | 2750 | 5.94 | 4.3 | 134 | 4.2 | 6.8 | 1.9 | < 0.05 | 2.04 | 26.8 | 9.07 | 0.23 | 0.9 | 151 |
| 107537 | | 46.3 | 2.36 | 2.63 | 6.41 | 2.03 | 4.26 | 0.5 | 125 | 155 | 2480 | 5.88 | 4.5 | 97.6 | 4.4 | 5.0 | 1.8 | < 0.05 | 1.98 | 28.3 | 6.61 | 0.21 | 0.9 | 159 |
| 107538 | < 5 | 59.2 | 2.39 | 1.78 | 6.58 | 2.18 | 1.88 | 0.2 | 110 | 144 | 1380 | 5.09 | 5.0 | 92.8 | 2.7 | 7.4 | 1.1 | < 0.05 | 1.87 | 21.4 | 3.85 | 0.17 | 0.2 | 98.0 |
| 107539 | | 52.3 | 2.10 | 1.12 | 6.24 | 1.29 | 2.06 | 0.4 | 166 | 174 | 2130 | 7.78 | 5.2 | 56.7 | 3.5 | 5.4 | 1.5 | < 0.05 | 1.07 | 19.5 | 8.92 | 0.29 | 1.0 | 65.4 |
| 107540 | | 49.1 | 2.90 | 2.20 | 7.44 | 1.63 | 1.96 | 0.2 | 185 | 178 | 1660 | 7.37 | 4.8 | 112 | 3.8 | 5.5 | 1.6 | < 0.05 | 2.35 | 33.1 | 6.31 | 0.17 | 1.0 | 104 |
| 107541 | < 5 | 61.4 | 2.55 | 1.93 | 6.09 | 1.67 | 1.40 | 0.2 | 141 | 215 | 1090 | 6.10 | 4.8 | 113 | 2.3 | 6.2 | 1.0 | < 0.05 | 1.70 | 27.1 | 3.63 | 0.21 | 0.2 | 95.4 |
| 107542 | | 34.1 | 2.52 | 1.43 | 6.71 | 1.88 | 1.88 | 0.2 | 124 | 124 | 1080 | 5.14 | 5.7 | 54.3 | 2.2 | 3.3 | 0.9 | < 0.05 | 1.92 | 20.6 | 3.03 | 0.14 | < 0.1 | 65.6 |
| 107543 | | 75.9 | 2.26 | 1.93 | 6.97 | 2.15 | 1.74 | 0.1 | 116 | 297 | 930 | 4.90 | 4.4 | 146 | 1.8 | 8.0 | 0.7 | < 0.05 | 2.71 | 24.2 | 2.48 | 0.13 | < 0.1 | 96.8 |
| 107544 | < 5 | 51.3 | 2.77 | 1.91 | 7.50 | 2.52 | 2.03 | 0.1 | 99 | 244 | 903 | 4.56 | 4.9 | 146 | 1.8 | 7.8 | 0.7 | < 0.05 | 1.98 | 25.2 | 2.04 | 0.11 | < 0.1 | 71.0 |
| 107545 | | 96.8 | 2.93 | 2.61 | 8.12 | 2.31 | 1.10 | 0.2 | 160 | 281 | 1650 | 7.69 | 5.4 | 183 | 4.5 | 15.0 | 1.9 | < 0.05 | 3.76 | 38.4 | 8.02 | 0.15 | 0.7 | 117 |
| 107546 | | 32.3 | > 3.00 | 1.53 | 8.40 | 2.54 | 1.84 | 0.1 | 105 | 74.9 | 801 | 4.63 | 5.8 | 50.4 | 1.9 | 3.7 | 0.7 | < 0.05 | 2.50 | 19.3 | 2.11 | 0.13 | < 0.1 | 68.6 |
| 107547 | < 5 | 21.8 | 2.91 | 1.08 | 7.49 | 2.26 | 1.61 | < 0.1 | 74 | 61.0 | 340 | 3.30 | 5.8 | 34.2 | 1.2 | 2.4 | 0.4 | < 0.05 | 2.06 | 10.5 | 1.26 | 0.10 | < 0.1 | 36.9 |
| 107548 | | 19.7 | 2.58 | 0.87 | 7.17 | 2.18 | 1.38 | 0.1 | 67 | 44.9 | 330 | 3.15 | 5.4 | 24.9 | 1.1 | 2.3 | 0.4 | < 0.05 | 1.80 | 8.6 | 1.09 | 0.08 | < 0.1 | 42.2 |
| 107549 | | 67.0 | 2.30 | 1.60 | 6.31 | 2.32 | 1.44 | 0.2 | 167 | 86.6 | 1060 | 6.67 | 4.8 | 55.7 | 1.9 | 12.6 | 0.8 | < 0.05 | 3.02 | 27.3 | 4.30 | 0.30 | 0.4 | 143 |
| 107550 | < 5 | 31.7 | 2.38 | 1.26 | 6.46 | 2.19 | 1.81 | 0.1 | 108 | 77.4 | 737 | 4.78 | 5.5 | 48.5 | 2.0 | 2.9 | 0.8 | < 0.05 | 1.96 | 18.4 | 2.86 | 0.12 | 0.5 | 66.9 |
| 107551 | | 66.7 | 1.96 | 1.68 | 7.17 | 2.93 | 1.46 | 0.1 | 173 | 114 | 619 | 7.64 | 5.6 | 59.3 | 2.6 | 9.0 | 1.0 | < 0.05 | 1.47 | 21.4 | 5.84 | 0.29 | 0.3 | 73.1 |
| 107552 | | 37.3 | 2.80 | 0.80 | 4.60 | 0.77 | 2.83 | 0.5 | 240 | 104 | 3820 | 13.3 | 5.4 | 63.4 | 10.7 | 9.3 | 4.6 | < 0.05 | 3.33 | 30.2 | 21.5 | 0.21 | 2.9 | 140 |
| 107553 | < 5 | 58.5 | > 3.00 | 1.88 | 6.86 | 0.89 | 1.37 | < 0.1 | 220 | 519 | 1370 | 8.29 | 3.3 | 181 | 1.7 | 8.0 | 0.6 | < 0.05 | 2.51 | 59.9 | 1.38 | 0.04 | < 0.1 | 60.1 |
| 107554 | | 38.8 | > 3.00 | 2.44 | 8.32 | 0.72 | 1.17 | < 0.1 | 151 | 101 | 1840 | 8.43 | 2.9 | 89.1 | 1.5 | 4.5 | 0.6 | < 0.05 | 1.67 | 60.3 | 2.48 | 0.04 | < 0.1 | 84.1 |
| 107555 | | 27.8 | > 3.00 | 1.53 | 7.81 | 1.98 | 0.44 | 0.1 | 264 | 157 | 1110 | 10.2 | 3.7 | 93.8 | 1.6 | 8.0 | 0.6 | < 0.05 | 4.76 | 43.6 | 2.56 | 0.05 | < 0.1 | 66.5 |
| 107556 | < 5 | 37.4 | > 3.00 | 1.52 | 8.05 | 1.93 | 1.43 | < 0.1 | 97 | 90.3 | 523 | 5.18 | 5.7 | 53.1 | 1.4 | 3.9 | 0.5 | < 0.05 | 2.21 | 19.7 | 1.57 | 0.07 | < 0.1 | 44.2 |
| 104576 | | 23.0 | 0.09 | 5.02 | 0.51 | 0.23 | 22.5 | 0.6 | 51 | 27.8 | > 10000 | 12.5 | 1.2 | 50.9 | 25.1 | 12.5 | 10.2 | < 0.05 | 0.55 | 38.9 | 72.4 | 6.30 | 6.6 | 338 |
| 104577 | | 21.0 | 0.46 | 0.81 | 1.55 | 0.44 | 24.4 | 0.5 | 132 | 82.1 | > 10000 | 11.6 | 0.6 | 70.7 | 47.5 | 32.3 | 20.6 | < 0.05 | 0.74 | 51.8 | > 100 | 20.0 | 13.9 | 2270 |
| 107557 | < 5 | 49.4 | 2.39 | 1.94 | 7.10 | 2.42 | 1.62 | 0.1 | 164 | 120 | 1210 | 6.66 | 5.9 | 71.7 | 2.5 | 7.2 | 1.0 | < 0.05 | 2.51 | 28.2 | 4.95 | 0.25 | 0.1 | 100 |
| 107558 | | 36.3 | 2.21 | 0.98 | 6.40 | 3.23 | 0.80 | < 0.1 | 66 | 57.4 | 352 | 5.22 | 3.2 | 29.0 | 1.6 | 8.5 | 0.7 | < 0.05 | 3.08 | 14.0 | 6.60 | 0.41 | < 0.1 | 85.4 |
| 107559 | | 14.0 | 2.53 | 0.69 | 3.22 | 1.57 | 0.47 | 0.1 | 126 | 60.1 | 232 | 2.58 | 5.6 | 20.9 | 0.5 | 2.3 | 0.2 | < 0.05 | 2.74 | 6.9 | 0.65 | 0.11 | < 0.1 | 25.2 |
| 107560 | 5 | 47.2 | 2.63 | 1.90 | 7.15 | 2.58 | 1.65 | 0.2 | 173 | 104 | 1500 | 6.51 | 5.3 | 76.4 | 3.4 | 8.0 | 1.4 | < 0.05 | 3.11 | 27.9 | 5.93 | 0.21 | 0.5 | 128 |
| 107561 | | 44.4 | > 3.00 | 1.58 | 7.78 | 2.21 | 1.88 | 0.1 | 122 | 91.3 | 600 | 5.36 | 5.9 | 54.1 | 2.3 | 6.4 | 0.9 | < 0.05 | 2.82 | 17.9 | 3.14 | 0.14 | 0.3 | 84.5 |
| 107562 | | 168 | 1.91 | 2.44 | 5.45 | 2.98 | 1.31 | 0.5 | 238 | 732 | 2240 | 9.11 | 4.0 | 297 | 3.2 | 20.3 | 1.4 | < 0.05 | 2.49 | 42.5 | 15.5 | 0.54 | 0.8 | 254 |
| 107563 | < 5 | 38.8 | 2.38 | 1.83 | 6.73 | 1.94 | 2.27 | 0.3 | 156 | 144 | 1630 | 6.65 | 4.8 | 79.0 | 3.1 | 4.0 | 1.3 | < 0.05 | 2.25 | 29.4 | 5.08 | 0.14 | 0.3 | 106 |
| 107564 | | 39.7 | 2.49 | 1.56 | 7.01 | 1.78 | 1.66 | 0.1 | 121 | 139 | 736 | 5.14 | 4.5 | 75.5 | 2.1 | 4.0 | 0.9 | < 0.05 | 1.62 | 20.1 | 3.03 | 0.10 | < 0.1 | 72.8 |
| 107565 | | 34.7 | 2.28 | 1.52 | 6.04 | 1.55 | 1.98 | 0.2 | 139 | 157 | 1060 | 5.16 | 4.9 | 70.5 | 2.2 | 4.5 | 0.9 | < 0.05 | 1.94 | 19.8 | 3.90 | 0.10 | 0.3 | 73.9 |
| 107566 | < 5 | 47.8 | 2.08 | 1.38 | 5.98 | 1.52 | 1.87 | 0.2 | 134 | 174 | 973 | 5.57 | 4.7 | 83.8 | 2.5 | 4.3 | 1.1 | < 0.05 | 1.45 | 20.0 | 4.85 | 0.12 | 0.3 | 88.8 |
| 107567 | | 45.9 | 2.37 | 1.62 | 6.56 | 1.89 | 1.76 | 0.2 | 146 | 173 | 1130 | 5.99 | 4.8 | 98.9 | 3.4 | 5.6 | 1.4 | < 0.05 | 1.89 | 25.0 | 6.36 | 0.18 | 0.4 | 124 |
| 107568 | | 24.7 | 2.21 | 1.03 | 4.20 | 1.68 | 1.23 | < 0.1 | 88 | 102 | 515 | 3.55 | 5.1 | 49.0 | 1.2 | 2.5 | 0.5 | < 0.05 | 1.41 | 14.2 | 1.14 | 0.08 | < 0.1 | 50.2 |
| 107569 | < 5 | 24.2 | 1.99 | 0.97 | 5.14 | 1.70 | 1.63 | < 0.1 | 76 | 95.1 | 624 | 3.41 | 5.6 | 41.7 | 1.6 | 1.9 | 0.6 | < 0.05 | 1.66 | 12.1 | 1.71 | 0.07 | < 0.1 | 55.7 |
| 107570 | | 119 | 1.09 | 2.31 | 4.09 | 1.90 | 2.61 | 1.1 | 177 | 202 | 5490 | 9.88 | 2.7 | 118 | 6.1 | 9.4 | 2.7 | < 0.05 | 2.56 | 34.2 | 13.7 | 0.41 | 1.6 | 241 |
| 107571 | | 66.7 | 1.90 | 2.40 | 5.68 | 1.61 | 2.38 | 0.4 | 125 | 134 | 2490 | 6.93 | 4.8 | 80.1 | 5.6 | 7.3 | 2.3 | < 0.05 | 2.25 | 25.6 | 9.03 | 0.17 | 1.2 | 182 |
| 107572 | < 5 | 55.9 | 1.25 | 2.64 | 4.66 | 1.55 | 3.41 | 1.5 | 186 | 127 | 5710 | 12.5 | 2.8 | 54.1 | 14.0 | 29.0 | 6.1 | < 0.05 | 2.12 | 53.4 | 24.6 | 0.81 | 4.0 | 272 |
| 107573 | | 50.2 | 2.26 | 1.85 | 5.76 | 1.49 | 2.68 | 0.8 | 158 | 161 | 3720 | 7.16 | 3.9 | 89.2 | 6.3 | 5.9 | 2.7 | < 0.05 | 2.97 | 31.1 | 10.5 | 0.39 | 1.7 | 187 |
| 107574 | | 46.6 | 1.78 | 2.32 | 5.82 | 1.97 | 3.71 | 0.7 | 112 | 100 | 2260 | 5.65 | 3.7 | 65.7 | 5.1 | 4.2 | 2.1 | < 0.05 | 2.11 | 23.0 | 8.89 | 0.22 | 1.4 | 228 |
| 107575 | 6 | 44.5 | 1.60 | 0.91 | 5.50 | 1.74 | 2.14 | 0.4 | 90 | 98.1 | 744 | 3.31 | 4.1 | 33.2 | 7.2 | 6.4 | 3.4 | < 0.05 | 2.10 | 8.9 | 23.7</ | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107577 | | 23.9 | 2.13 | 0.91 | 5.98 | 1.90 | 1.68 | 0.3 | 94 | 71.0 | 1330 | 3.69 | 4.6 | 30.5 | 3.2 | 13.7 | 1.5 | < 0.05 | 1.79 | 8.7 | 12.1 | 0.45 | 0.5 | 104 |
| 107578 | < 5 | 38.0 | 1.18 | 1.53 | 3.71 | 1.03 | 6.60 | 1.0 | 154 | 92.4 | 5490 | 6.18 | 2.7 | 48.4 | 9.2 | 6.3 | 4.0 | < 0.05 | 2.09 | 26.0 | 18.9 | 0.23 | 2.7 | 208 |
| 107579 | | 40.8 | 2.32 | 1.36 | 5.05 | 1.28 | 3.75 | 0.2 | 122 | 113 | 1320 | 4.86 | 4.2 | 50.1 | 5.4 | 4.6 | 2.3 | < 0.05 | 1.78 | 16.7 | 11.4 | 0.17 | 0.9 | 98.3 |
| 107580 | | 62.6 | 2.13 | 1.67 | 5.82 | 1.58 | 1.60 | 0.1 | 110 | 170 | 849 | 4.87 | 4.1 | 89.5 | 2.8 | 5.1 | 1.2 | < 0.05 | 1.91 | 19.4 | 5.89 | 0.15 | 0.7 | 105 |
| 107581 | < 5 | 52.7 | 0.05 | 8.84 | 4.67 | 0.52 | 6.02 | 0.2 | 166 | 52.7 | 1520 | 8.34 | 0.4 | 39.0 | 5.7 | 11.9 | 2.6 | < 0.05 | 5.26 | 42.8 | 13.7 | 0.03 | 1.3 | 208 |
| 107582 | | 63.8 | 2.24 | 2.12 | 6.26 | 1.50 | 2.79 | 0.2 | 119 | 76.2 | 1500 | 5.34 | 1.3 | 48.9 | 6.5 | 6.0 | 2.6 | < 0.05 | 1.39 | 19.0 | 5.49 | 0.14 | 1.2 | 105 |
| 107583 | | 40.9 | 1.86 | 1.68 | 5.45 | 1.56 | 2.81 | 1.1 | 121 | 123 | 5740 | 9.40 | 4.7 | 71.3 | 12.9 | 8.7 | 5.6 | < 0.05 | 1.51 | 30.9 | 26.1 | 0.45 | 3.3 | 222 |
| 107584 | < 5 | 50.4 | 2.19 | 2.63 | 6.81 | 1.88 | 2.64 | 0.2 | 111 | 97.2 | 2540 | 5.64 | 3.2 | 61.4 | 3.7 | 7.1 | 1.5 | < 0.05 | 1.93 | 21.0 | 6.01 | 0.11 | 0.6 | 98.4 |
| 107585 | | 34.8 | 1.71 | 1.93 | 4.96 | 1.19 | 3.90 | 0.6 | 120 | 92.3 | 2960 | 5.94 | 1.1 | 61.3 | 4.7 | 5.9 | 2.0 | < 0.05 | 1.82 | 23.7 | 8.30 | 0.15 | 0.7 | 175 |
| 107586 | | 56.1 | 1.82 | 2.24 | 5.50 | 1.67 | 2.63 | 0.3 | 119 | 106 | 1650 | 5.46 | 4.2 | 56.8 | 4.3 | 5.6 | 1.7 | < 0.05 | 2.28 | 22.1 | 5.58 | 0.12 | 0.7 | 123 |
| 107587 | < 5 | 23.6 | 2.23 | 1.41 | 6.06 | 1.51 | 1.91 | 0.3 | 298 | 39.8 | 2480 | 10.3 | 4.4 | 21.3 | 4.5 | 7.3 | 1.8 | < 0.05 | 1.96 | 37.6 | 5.86 | 0.08 | 0.5 | 124 |
| 107588 | | 54.6 | 2.33 | 1.60 | 4.64 | 1.43 | 1.43 | 0.2 | 157 | 253 | 1100 | 5.59 | 5.5 | 102 | 2.1 | 4.9 | 0.9 | < 0.05 | 1.89 | 22.5 | 3.97 | 0.19 | 0.3 | 91.7 |
| 107589 | | 25.4 | 1.28 | 1.34 | 3.87 | 0.91 | 2.82 | 0.5 | 98 | 123 | 1470 | 4.14 | 2.9 | 66.1 | 1.8 | 2.8 | 0.7 | < 0.05 | 2.09 | 19.7 | 2.83 | 0.09 | 0.2 | 150 |
| 107590 | < 5 | 3.0 | 0.45 | 0.34 | 1.46 | 0.34 | 2.22 | 0.3 | 32 | 30.4 | 284 | 4.11 | < 0.1 | 11.2 | 1.4 | 0.7 | 0.6 | < 0.05 | 0.46 | 4.8 | 2.99 | 0.04 | 0.3 | 13.3 |
| 107591 | | 82.1 | 1.09 | 2.44 | 3.77 | 1.18 | 4.59 | 1.3 | 102 | 123 | 5040 | 8.40 | 1.1 | 76.0 | 6.5 | 5.7 | 2.8 | < 0.05 | 2.13 | 33.8 | 11.5 | 0.24 | 1.5 | 273 |
| 107592 | | 49.7 | 1.60 | 1.63 | 4.78 | 1.40 | 3.26 | 0.6 | 121 | 118 | 3130 | 8.14 | 2.4 | 69.0 | 5.8 | 8.9 | 2.4 | < 0.05 | 1.66 | 25.3 | 11.3 | 0.20 | 1.1 | 153 |
| 107593 | 5 | 27.6 | 0.81 | 2.07 | 3.26 | 1.13 | 7.29 | 0.9 | 124 | 123 | 5530 | 10.7 | 0.7 | 67.9 | 11.4 | 6.2 | 4.7 | < 0.05 | 1.87 | 23.0 | 21.9 | 0.17 | 2.7 | 546 |
| 107594 | | 25.2 | 1.65 | 1.27 | 4.81 | 1.34 | 3.55 | 0.6 | 84 | 86.6 | 1180 | 4.03 | 2.9 | 45.1 | 2.8 | 4.9 | 1.1 | < 0.05 | 1.89 | 15.1 | 4.02 | 0.08 | 0.7 | 194 |
| 107595 | | 28.6 | 1.79 | 1.65 | 4.83 | 1.22 | 6.96 | 0.9 | 197 | 83.0 | 5710 | 9.96 | 0.5 | 53.6 | 20.8 | 36.5 | 8.8 | 0.97 | 1.00 | 42.2 | 30.4 | 2.51 | 7.9 | 362 |
| 107596 | < 5 | 23.1 | 0.81 | 1.42 | 2.61 | 0.93 | 4.68 | 0.5 | 103 | 88.0 | 5870 | 8.20 | 2.2 | 48.3 | 7.1 | 11.8 | 2.9 | < 0.05 | 2.66 | 26.3 | 10.5 | 0.16 | 4.1 | 125 |
| 107597 | | 35.3 | 2.28 | 1.20 | 3.64 | 1.21 | 1.36 | 0.2 | 84 | 164 | 1040 | 3.98 | 3.4 | 74.9 | 2.1 | 4.2 | 0.9 | < 0.05 | 1.22 | 17.6 | 3.82 | 0.13 | 1.1 | 82.1 |
| 107598 | | 30.9 | 1.81 | 1.55 | 4.78 | 1.61 | 2.26 | 0.3 | 83 | 114 | 1400 | 4.38 | 2.0 | 67.2 | 2.9 | 3.9 | 1.2 | < 0.05 | 1.66 | 18.5 | 4.79 | 0.13 | 1.1 | 102 |
| 107599 | < 5 | 26.5 | 2.13 | 1.59 | 6.17 | 1.82 | 2.35 | 0.4 | 92 | 82.9 | 1500 | 4.74 | 2.9 | 56.6 | 4.2 | 4.2 | 1.9 | < 0.05 | 1.83 | 16.4 | 14.1 | 0.27 | 2.0 | 156 |
| 107600 | | 39.8 | 2.17 | 1.75 | 6.39 | 1.76 | 2.35 | 0.3 | 99 | 81.4 | 1390 | 5.22 | 1.7 | 65.1 | 4.7 | 4.4 | 2.1 | < 0.05 | 1.90 | 19.1 | 11.4 | 0.26 | 2.1 | 188 |
| 107626 | | 59.7 | 2.23 | 3.30 | 5.49 | 0.74 | 2.59 | 0.6 | 144 | 361 | 2260 | 7.24 | 1.4 | 299 | 4.2 | 9.2 | 2.0 | < 0.05 | 1.30 | 48.1 | 13.2 | 0.30 | 1.5 | 227 |
| 107627 | < 5 | 32.6 | 1.87 | 1.33 | 5.85 | 1.66 | 1.79 | 0.4 | 100 | 109 | 1180 | 4.66 | 3.6 | 57.5 | 3.3 | 3.1 | 1.5 | < 0.05 | 4.02 | 16.0 | 8.92 | 0.44 | 1.6 | 159 |
| 107628 | | 19.5 | 2.13 | 0.72 | 6.02 | 1.79 | 1.09 | 0.1 | 67 | 78.0 | 431 | 3.50 | 4.3 | 30.7 | 1.0 | 1.4 | 0.4 | < 0.05 | 1.73 | 9.7 | 0.98 | 0.08 | 0.6 | 44.7 |
| 107629 | | 14.5 | 2.50 | 0.84 | 7.21 | 2.17 | 1.56 | < 0.1 | 61 | 57.8 | 556 | 3.22 | 4.8 | 29.4 | 1.3 | 1.2 | 0.5 | < 0.05 | 1.36 | 12.4 | 1.10 | 0.07 | 0.3 | 36.7 |
| 107630 | < 5 | 30.6 | 1.45 | 1.26 | 5.08 | 1.41 | 2.45 | 0.4 | 77 | 112 | 1830 | 4.31 | 2.6 | 61.8 | 2.5 | 3.0 | 1.1 | < 0.05 | 2.39 | 16.2 | 6.03 | 0.20 | 1.6 | 183 |
| 107631 | | 90.7 | 0.75 | 1.40 | 3.14 | 1.80 | 0.55 | 0.5 | 213 | 67.6 | 4000 | 24.1 | 1.9 | 82.6 | 22.1 | 16.8 | 9.6 | < 0.05 | 1.98 | 67.6 | 55.6 | 0.19 | 8.8 | 547 |
| 107632 | | 26.0 | 2.48 | 1.38 | 3.77 | 1.42 | 1.04 | 0.1 | 154 | 118 | 1080 | 6.07 | 4.6 | 77.7 | 1.6 | 4.8 | 0.6 | < 0.05 | 2.94 | 31.1 | 2.10 | 0.09 | 0.7 | 85.9 |
| 107633 | < 5 | 35.4 | 2.76 | 1.69 | 5.26 | 1.41 | 1.18 | 0.1 | 181 | 256 | 1450 | 7.31 | 5.3 | 141 | 2.5 | 6.8 | 1.0 | < 0.05 | 4.66 | 44.7 | 3.28 | 0.07 | 0.9 | 91.5 |
| 107634 | | 19.6 | > 3.00 | 1.28 | 6.03 | 0.30 | 0.32 | < 0.1 | 223 | 163 | 509 | 9.81 | 5.7 | 110 | 0.9 | 2.8 | 0.3 | < 0.05 | 1.31 | 38.3 | 1.21 | 0.05 | < 0.1 | 62.7 |
| 107635 | | 70.5 | 2.31 | 2.93 | 6.54 | 1.64 | 1.20 | < 0.1 | 229 | 59.0 | 863 | 11.3 | 5.9 | 70.5 | 2.7 | 7.9 | 1.1 | < 0.05 | 2.54 | 49.4 | 5.61 | 0.05 | 1.3 | 184 |
| 107636 | < 5 | 28.1 | > 3.00 | 1.32 | 6.15 | 1.33 | 1.42 | < 0.1 | 159 | 93.5 | 1060 | 6.89 | 4.9 | 51.4 | 1.7 | 3.1 | 0.6 | < 0.05 | 2.46 | 34.7 | 1.74 | 0.07 | 0.6 | 75.2 |
| 107637 | | 43.9 | 2.32 | 4.04 | 5.73 | 1.32 | 1.11 | < 0.1 | 301 | 566 | 1460 | 10.6 | 2.6 | 206 | 1.4 | 11.5 | 0.7 | < 0.05 | 3.62 | 65.3 | 3.54 | 0.02 | 0.7 | 89.5 |
| 107638 | | 21.4 | 2.60 | 1.39 | 6.49 | 1.80 | 1.66 | 0.1 | 107 | 135 | 644 | 5.51 | 5.8 | 68.3 | 1.8 | 2.2 | 0.7 | < 0.05 | 1.56 | 22.5 | 1.47 | 0.08 | 0.8 | 67.1 |
| 107639 | < 5 | 17.5 | 2.30 | 1.24 | 6.27 | 1.79 | 1.53 | 0.1 | 88 | 90.4 | 610 | 4.07 | 5.1 | 32.9 | 1.4 | 2.1 | 0.5 | < 0.05 | 1.49 | 14.6 | 1.13 | 0.08 | 0.4 | 38.4 |
| 107640 | | 28.1 | 2.79 | 2.02 | 5.75 | 1.45 | 1.86 | 0.3 | 192 | 122 | 1690 | 7.34 | 3.9 | 98.8 | 2.5 | 3.6 | 1.0 | < 0.05 | 6.47 | 41.4 | 4.43 | 0.07 | 1.9 | 102 |
| 107641 | | 37.9 | 1.09 | 2.78 | 4.12 | 2.42 | 2.55 | 0.2 | 148 | 152 | 2070 | 6.29 | 2.3 | 107 | 3.4 | 4.6 | 1.4 | < 0.05 | 2.88 | 35.3 | 4.12 | 0.10 | 1.7 | 176 |
| 107642 | < 5 | 28.1 | 1.50 | 0.91 | 1.54 | 1.35 | 1.62 | 0.5 | 130 | 76.9 | 2260 | 6.19 | 2.3 | 56.3 | 2.1 | 3.8 | 0.8 | < 0.05 | 1.23 | 27.1 | 2.91 | 0.39 | 1.0 | 233 |
| 107643 | | 23.7 | 2.39 | 0.76 | 4.64 | 1.28 | 0.99 | 0.1 | 80 | 71.0 | 425 | 4.05 | 4.7 | 29.9 | 1.0 | 2.5 | 0.4 | < 0.05 | 1.22 | 12.4 | 1.38 | 0.14 | 0.3 | 65.1 |
| 107644 | | 33.2 | 0.46 | 1.10 | 2.67 | 0.63 | 2.86 | 1.2 | 146 | 90.3 | > 10000 | 14.7 | 2.0 | 49.2 | 24.1 | 16.7 | 10.1 | < 0.05 | 1.28 | 32.2 | 31.7 | 1.04 | 11.1 | 319 |
| 107645 | < 5 | 82.2 | 1.45 | 2.56 | 5.32 | 1.82 | 2.45 | 0.5 | 107 | 57.5 | 3630 | 8.63 | 1.1 | 40.8 | 8.6 | 11.0 | 3.7 | < 0.05 | 1.79 | 25.8 | 14.9 | 0.58 | 3.1 | 289 |
| 107646 | | 44.2 | 1.57 | 1.75 | 5.37 | 2.25 | 2.92 | 0.6 | 128 | 90.0 | 1680 | 10.5 | 2.3 | 50.3 | 7.6 | 8.4 | 3.4 | < 0.05 | 1.86 | 25.7 | 16.3 | 0.53 | 3.1 | 392 |
| 107647 | | 30.4 | 1.92 | 1.28 | 6.23 | 1.59 | 2.02 | 0.4 | 96 | 84.7 | 2300 | 6.75 | 4.2 | 49.1 | 3.8 | 3.3 | 1.6 | < 0.05 | 1.66 | 21.6 | 5.32 | 0.12 | 0.9 | 111 |
| 107648 | < 5 | 28.2 | 1.42 | 1.13 | 4.86 | 1.28 | 4.11 | 0.8 | 112 | 77.8 | 5660 | 9.27 | 1.0 | 42.1 | 13.3 | 4.6 | 5.9 | < 0.05 | 1.28 | 20.5 | 22.0 | 0.27 | 4.9 | 146 |
| 107649 | | 61.4 | 1.56 | 1.67 | 5.46 | 1.32 | 2.73 | 0.9 | 125 | 130 | 4980 | 10.2 | 3.8 | 65.3 | 6.9 | 4.4 | 2.9 | < 0.05 | 1.76 | 27.8 | 14.7 | 0.34 | 3.0 | 190 |
| 107650 | | 47.0 | 1.92 | 1.95 | 5.95 | 1.74 | 2.28 | 0.3 | 124 | 122 | 2670 | 7.20 | 4.3 | 77.8 | 3.6 | 4.6 | 1.4 | < 0.05 | 2.19 | 29.0 | 5.32 | 0.14 | 1.1 | 115 |
| 107651 | 7 | 38.2 | 1.82 | 1.23 | 2.74 | 1.34 | 2.26 | 0.3 | 84 | 216 | 1390 | 4.47 | 3.1 | 132 | 1.9 | 4.8 | 0.8 | < 0.05 | 1.47 | 21.9 | 3.51 | 0.19 | 1.0 | 119 |
| 107652 | | 48.7 | 1.76 | 1.97 | 4.23 | 1.57 | 2.82 | 0.3 | 87 | 205 | 1230 | 4.60 | 3.6 | 129 | 2.3 | 5.5 | 0.9 | < 0.05 | 1.94 | 22.8 | 3.77 | 0.17 | 1.2 | 124 |
| 107653 | | 39.1 | 2.12</ | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107654 | < 5 | 32.2 | 1.88 | 1.71 | 5.18 | 1.49 | 3.37 | 0.5 | 104 | 134 | 1930 | 5.74 | 3.3 | 83.5 | 5.0 | 4.2 | 2.3 | < 0.05 | 2.03 | 20.5 | 11.0 | 0.62 | 2.6 | 305 |
| 107655 | | 30.4 | 1.63 | 1.37 | 4.52 | 1.25 | 3.04 | 0.6 | 86 | 149 | 2950 | 5.33 | 3.0 | 81.4 | 3.8 | 5.4 | 1.7 | < 0.05 | 2.11 | 21.4 | 8.05 | 0.22 | 2.1 | 203 |
| 107656 | | 35.1 | 2.17 | 1.77 | 5.97 | 1.84 | 2.05 | 0.3 | 89 | 104 | 1810 | 4.98 | 5.2 | 66.8 | 3.6 | 5.1 | 1.5 | < 0.05 | 1.90 | 20.9 | 6.47 | 0.15 | 1.3 | 118 |
| 107657 | < 5 | 34.4 | 1.60 | 1.81 | 4.73 | 1.21 | 3.92 | 0.4 | 95 | 77.6 | 3400 | 5.50 | 0.5 | 49.3 | 5.7 | 8.3 | 2.4 | < 0.05 | 1.89 | 21.9 | 9.76 | 0.21 | 2.0 | 117 |
| 107658 | | 41.7 | 1.66 | 2.67 | 5.56 | 1.99 | 2.81 | 0.1 | 74 | 66.1 | 1650 | 4.88 | 1.1 | 42.0 | 2.8 | 6.3 | 1.2 | < 0.05 | 2.48 | 17.1 | 4.86 | 0.09 | 0.9 | 80.6 |
| 107659 | | 87.1 | 1.75 | 1.80 | 5.33 | 1.54 | 2.49 | 0.5 | 115 | 136 | 3010 | 7.65 | 1.5 | 109 | 5.5 | 9.6 | 2.5 | < 0.05 | 1.68 | 28.2 | 13.0 | 0.18 | 2.0 | 124 |
| 107660 | < 5 | 65.9 | 1.67 | 1.68 | 3.58 | 1.18 | 2.89 | 0.5 | 104 | 97.2 | 3210 | 6.24 | 3.3 | 50.2 | 5.0 | 8.0 | 2.0 | < 0.05 | 0.81 | 23.5 | 7.20 | 0.24 | 1.8 | 154 |
| 107661 | | 33.9 | 1.98 | 1.15 | 3.11 | 0.99 | 2.08 | 0.5 | 112 | 97.4 | 2420 | 5.61 | 2.7 | 51.7 | 3.7 | 4.1 | 1.5 | < 0.05 | 1.50 | 22.6 | 4.10 | 0.12 | 1.0 | 134 |
| 107662 | | 31.3 | 2.13 | 1.32 | 5.68 | 1.48 | 2.14 | 0.1 | 111 | 135 | 1440 | 4.99 | 3.6 | 66.4 | 2.6 | 3.5 | 1.1 | < 0.05 | 1.61 | 23.2 | 4.05 | 0.09 | 1.1 | 81.5 |
| 107663 | < 5 | 26.6 | 1.67 | 1.30 | 4.77 | 1.26 | 2.41 | 0.3 | 104 | 97.1 | 1670 | 5.54 | 3.2 | 56.5 | 3.5 | 3.9 | 1.5 | < 0.05 | 2.85 | 20.4 | 6.25 | 0.14 | 2.4 | 97.6 |
| 107664 | | 36.2 | 2.27 | 1.40 | 6.12 | 1.81 | 1.42 | 0.2 | 109 | 136 | 959 | 5.78 | 5.4 | 81.0 | 2.2 | 3.4 | 0.9 | < 0.05 | 2.36 | 22.7 | 3.98 | 0.16 | 0.8 | 99.4 |
| 107665 | | 43.6 | 1.89 | 1.27 | 5.55 | 1.72 | 1.30 | 0.8 | 149 | 207 | 2110 | 6.72 | 3.8 | 92.2 | 3.4 | 6.0 | 1.6 | < 0.05 | 2.61 | 22.0 | 8.45 | 0.29 | 1.6 | 116 |
| 107666 | < 5 | 17.0 | 2.49 | 0.71 | 6.29 | 1.77 | 1.31 | 0.1 | 58 | 62.9 | 379 | 3.47 | 5.3 | 26.8 | 1.0 | 1.5 | 0.4 | < 0.05 | 1.25 | 9.4 | 0.75 | 0.05 | 0.6 | 39.4 |
| 107667 | | 19.9 | 1.75 | 0.83 | 4.80 | 1.38 | 1.84 | 0.9 | 99 | 199 | 3860 | 6.70 | 3.7 | 75.6 | 3.4 | 7.1 | 1.4 | < 0.05 | 1.98 | 22.0 | 6.76 | 0.20 | 1.4 | 115 |
| 107668 | | 115 | 2.38 | 1.84 | 5.53 | 1.49 | 0.75 | 0.1 | 156 | 582 | 681 | 8.26 | 4.3 | 274 | 1.2 | 12.5 | 0.5 | < 0.05 | 2.41 | 45.6 | 2.14 | 0.14 | 0.6 | 140 |
| 107669 | < 5 | 27.0 | 2.48 | 1.13 | 6.25 | 1.98 | 1.25 | 0.2 | 97 | 82.3 | 647 | 4.90 | 4.9 | 57.6 | 2.2 | 4.7 | 0.9 | < 0.05 | 2.65 | 18.2 | 3.04 | 0.12 | 0.7 | 83.7 |
| 107670 | | 28.9 | 2.11 | 0.96 | 2.48 | 1.17 | 1.42 | 0.1 | 104 | 83.6 | 737 | 4.98 | 4.3 | 43.5 | 1.3 | 3.1 | 0.5 | < 0.05 | 1.22 | 17.9 | 1.39 | 0.14 | 0.7 | 89.7 |
| 107671 | | 26.4 | 2.53 | 1.12 | 5.76 | 1.42 | 0.98 | 0.1 | 95 | 75.1 | 694 | 4.51 | 4.4 | 48.4 | 1.3 | 2.6 | 0.5 | < 0.05 | 2.71 | 20.0 | 1.69 | 0.09 | 0.4 | 67.0 |
| 107672 | < 5 | 38.8 | 1.79 | 1.45 | 5.58 | 2.06 | 1.16 | 0.2 | 123 | 86.4 | 1690 | 7.49 | 3.6 | 57.9 | 1.8 | 4.8 | 0.7 | < 0.05 | 4.24 | 29.9 | 3.78 | 0.22 | 0.8 | 177 |
| 107673 | | 61.4 | 1.90 | 1.22 | 5.98 | 1.80 | 1.06 | 0.2 | 124 | 104 | 1670 | 8.68 | 4.6 | 75.1 | 3.1 | 5.3 | 1.4 | < 0.05 | 1.78 | 49.1 | 16.6 | 2.12 | 1.6 | 235 |
| 107674 | | 34.7 | 2.38 | 1.79 | 5.78 | 1.40 | 1.85 | < 0.1 | 150 | 102 | 699 | 6.82 | 4.8 | 74.8 | 2.7 | 3.2 | 1.1 | < 0.05 | 4.56 | 22.8 | 4.52 | 0.07 | 1.4 | 82.2 |
| 107675 | < 5 | 22.9 | 2.38 | 1.32 | 5.89 | 1.78 | 1.06 | < 0.1 | 172 | 154 | 639 | 7.10 | 4.9 | 65.6 | 1.2 | 5.9 | 0.4 | < 0.05 | 4.43 | 26.2 | 1.44 | 0.08 | 0.3 | 59.7 |
| 107676 | | 23.8 | > 3.00 | 2.24 | 5.42 | 0.82 | 0.90 | 0.1 | 255 | 231 | 1280 | 9.41 | 3.8 | 158 | 1.2 | 5.5 | 0.5 | < 0.05 | 5.03 | 50.7 | 1.91 | 0.05 | 0.3 | 76.3 |
| 107677 | | 22.2 | > 3.00 | 1.85 | 5.78 | 0.60 | 1.00 | < 0.1 | 198 | 53.5 | 1810 | 8.71 | 3.3 | 74.7 | 1.1 | 2.1 | 0.4 | < 0.05 | 1.36 | 64.5 | 1.05 | < 0.02 | 0.4 | 93.0 |
| 92012 | < 5 | 10.8 | > 3.00 | 0.48 | 5.64 | 0.60 | 2.36 | 0.4 | 195 | 152 | 2310 | 7.90 | 0.6 | 79.0 | 22.7 | 4.1 | 10.6 | < 0.05 | 3.08 | 28.8 | 21.4 | 0.54 | 8.7 | 150 |
| 107678 | | 26.6 | > 3.00 | 2.48 | 5.70 | 0.66 | 1.05 | 0.1 | 226 | 819 | 1560 | 9.78 | 3.6 | 310 | 1.6 | 5.5 | 0.6 | < 0.05 | 2.76 | 73.9 | 2.16 | 0.04 | 0.6 | 98.9 |
| 107679 | | 28.9 | > 3.00 | 3.23 | 5.88 | 0.85 | 0.93 | < 0.1 | 141 | 43.6 | 530 | 9.68 | 3.5 | 64.3 | 0.8 | 4.1 | 0.3 | < 0.05 | 2.49 | 42.8 | 2.05 | < 0.02 | 0.2 | 129 |
| 107680 | < 5 | 30.3 | > 3.00 | 1.71 | 4.77 | 1.17 | 0.79 | 0.3 | 123 | 191 | 1060 | 8.29 | 3.4 | 135 | 1.3 | 6.7 | 0.5 | 0.11 | 5.56 | 37.6 | 1.85 | 0.09 | 0.8 | 67.5 |
| 107681 | | 29.0 | 2.32 | 1.46 | 5.59 | 2.09 | 1.48 | 0.1 | 96 | 98.5 | 587 | 5.55 | 4.1 | 58.4 | 2.1 | 3.1 | 0.8 | < 0.05 | 2.52 | 20.8 | 2.66 | 0.08 | 0.9 | 72.9 |
| 107682 | | 30.8 | 2.85 | 0.97 | 5.48 | 2.08 | 0.53 | 0.2 | 116 | 101 | 472 | 7.52 | 3.6 | 54.1 | 1.3 | 7.2 | 0.5 | < 0.05 | 3.89 | 19.8 | 3.16 | 0.13 | 0.6 | 62.5 |
| 107683 | < 5 | 44.1 | 1.98 | 1.84 | 5.69 | 2.90 | 1.02 | 0.2 | 145 | 120 | 1350 | 9.56 | 4.1 | 90.6 | 2.0 | 10.8 | 0.8 | < 0.05 | 2.38 | 39.7 | 4.40 | 0.23 | 1.0 | 160 |
| 107684 | | 44.6 | 1.82 | 1.07 | 4.91 | 2.28 | 0.89 | 0.3 | 161 | 64.0 | 1710 | 10.0 | 3.9 | 41.0 | 2.7 | 10.6 | 1.4 | < 0.05 | 2.73 | 26.4 | 17.1 | 1.45 | 1.6 | 210 |
| 107685 | | 31.5 | 2.42 | 1.24 | 6.40 | 2.10 | 1.69 | 0.1 | 106 | 85.5 | 986 | 5.54 | 5.1 | 49.4 | 2.2 | 2.6 | 0.9 | < 0.05 | 2.17 | 19.8 | 3.65 | 0.23 | 0.7 | 107 |
| 107686 | < 5 | 42.1 | 2.54 | 1.27 | 5.88 | 1.76 | 1.26 | < 0.1 | 132 | 88.6 | 653 | 6.48 | 5.2 | 60.3 | 2.1 | 5.4 | 0.8 | < 0.05 | 2.00 | 24.2 | 3.11 | 0.13 | 0.7 | 73.8 |
| 107687 | | 42.8 | 2.31 | 1.28 | 5.96 | 1.84 | 1.09 | 0.2 | 89 | 94.8 | 1260 | 7.05 | 3.8 | 55.5 | 2.3 | 7.3 | 0.9 | < 0.05 | 2.69 | 22.1 | 4.26 | 0.16 | 0.7 | 98.4 |
| 107688 | | 75.3 | 1.74 | 2.15 | 5.08 | 1.43 | 1.42 | 0.5 | 143 | 646 | 1750 | 6.87 | 4.6 | 344 | 2.9 | 23.3 | 1.2 | < 0.05 | 3.08 | 40.7 | 6.28 | 0.22 | 1.1 | 89.0 |
| 107689 | < 5 | 21.3 | 2.14 | 0.66 | 2.20 | 1.01 | 0.64 | 0.2 | 59 | 114 | 338 | 3.08 | 3.9 | 50.7 | 0.6 | 2.8 | 0.2 | < 0.05 | 0.90 | 12.3 | 0.52 | 0.07 | 0.2 | 42.6 |
| 107690 | | 39.9 | 1.17 | 1.39 | 2.74 | 1.20 | 3.46 | 1.2 | 130 | 97.5 | 9330 | 13.8 | 2.8 | 51.3 | 6.9 | 4.8 | 3.1 | < 0.05 | 1.50 | 31.2 | 19.6 | 0.43 | 3.5 | 326 |
| 107691 | | 38.3 | 2.39 | 1.00 | 4.88 | 1.62 | 0.93 | 0.3 | 99 | 60.5 | 1080 | 8.05 | 3.3 | 42.5 | 2.3 | 8.0 | 1.0 | < 0.05 | 1.81 | 24.6 | 7.64 | 0.76 | 1.4 | 177 |
| 107692 | < 5 | 47.3 | 1.60 | 1.53 | 5.41 | 3.30 | 0.57 | 0.1 | 133 | 95.5 | 731 | 10.3 | 3.2 | 73.4 | 1.3 | 7.9 | 0.5 | < 0.05 | 1.44 | 37.9 | 3.39 | 0.20 | 0.4 | 165 |
| 107693 | | 27.2 | > 3.00 | 1.28 | 6.31 | 1.62 | 0.96 | < 0.1 | 105 | 88.8 | 450 | 6.13 | 4.7 | 57.5 | 1.2 | 3.3 | 0.4 | < 0.05 | 3.81 | 23.2 | 1.69 | 0.07 | 0.6 | 58.9 |
| 107694 | | 21.5 | 1.25 | 1.68 | 3.34 | 0.69 | 6.36 | 0.6 | 142 | 117 | 3460 | 11.5 | 0.7 | 53.0 | 8.3 | 7.3 | 3.7 | < 0.05 | 1.25 | 19.9 | 20.7 | 0.31 | 3.8 | 288 |
| 107695 | 5 | 34.2 | 2.04 | 1.19 | 5.46 | 1.44 | 3.45 | 0.4 | 98 | 74.6 | 2390 | 5.78 | 1.0 | 40.6 | 5.8 | 4.4 | 2.5 | < 0.05 | 1.39 | 14.9 | 7.84 | 0.12 | 2.0 | 104 |
| 107696 | | 52.6 | 1.70 | 1.70 | 4.92 | 1.29 | 3.26 | 0.4 | 94 | 75.9 | 3390 | 6.91 | 1.1 | 48.4 | 6.2 | 7.2 | 2.6 | < 0.05 | 1.47 | 23.5 | 9.88 | 0.20 | 1.9 | 104 |
| 107697 | | 37.2 | 2.01 | 1.66 | 5.56 | 1.42 | 2.20 | < 0.1 | 97 | 64.1 | 944 | 5.49 | 1.3 | 43.1 | 2.9 | 4.1 | 1.2 | < 0.05 | 1.61 | 16.5 | 5.45 | 0.13 | 0.9 | 84.9 |
| 107698 | 6 | 31.7 | 2.35 | 1.31 | 5.88 | 1.73 | 1.75 | 0.2 | 90 | 89.1 | 1150 | 4.74 | 4.3 | 53.9 | 2.8 | 3.8 | 1.1 | < 0.05 | 1.51 | 15.5 | 5.14 | 0.11 | 0.9 | 90.5 |
| 107699 | | 27.4 | 1.78 | 1.47 | 3.24 | 1.12 | 3.23 | 0.9 | 100 | 107 | 2320 | 5.69 | 2.8 | 46.4 | 5.0 | 6.1 | 2.2 | < 0.05 | 1.35 | 21.1 | 9.55 | 0.12 | 2.2 | 241 |
| 107700 | | 25.7 | 1.60 | 2.17 | 4.72 | 1.47 | 4.38 | 0.5 | 90 | 110 | 1730 | 4.79 | 2.7 | 55.5 | 6.1 | 4.7 | 2.6 | < 0.05 | 1.83 | 16.1 | 12.6 | 0.17 | 2.1 | 157 |
| 107801 | < 5 | 31.1 | 2.00 | 2.17 | 6.18 | 1.79 | 2.56 | 0.4 | 102 | 77.9 | 1890 | 5.58 | 1.4 | 61.7 | 4.4 | 4.2 | 1.9 | < 0.05 | 2.13 | 21.5 | 8.90 | 0.20 | 1.7 | 156 |
| 107802 | | 41.0 | 1.92 | 2.01 | 5.66 | 1.66 | 2.68 | 0.4 | 103 | 75.2 | 2500 | 5.82 | 1.0 | 72.9 | 5.4 | 5.9 | 2.4 | < 0.05 | 1.95 | 22.2 | 12.2 | 0.35 | 2.3 | 207 |
| 107803 | | 54.7 | 0.82 | 2.05 | 3.30 | 0.85 | 4.52 | 2.2 | 149 | 114 | 8410 | 9.18 | < 0.1 | 85.7 | 13.4 | 10.8 | 5.9 | < 0.05 | 2.27 | 31.1 | 31.1 | 0.66 | 5.6 | 385 |
| 107804 | 27</ | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107805 | | 18.9 | 2.21 | 0.89 | 6.45 | 2.14 | 1.36 | 0.2 | 61 | 57.4 | 363 | 3.29 | 3.9 | 30.4 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.89 | 9.2 | 0.87 | 0.07 | 0.3 | 51.1 |
| 107806 | | 13.6 | 2.28 | 0.71 | 6.28 | 2.03 | 1.18 | < 0.1 | 51 | 52.2 | 416 | 2.73 | 4.0 | 26.1 | 1.0 | 1.1 | 0.4 | < 0.05 | 1.55 | 8.9 | 0.78 | 0.06 | < 0.1 | 32.6 |
| 107807 | < 5 | 17.1 | 2.28 | 0.92 | 6.33 | 1.85 | 1.95 | 0.3 | 66 | 63.3 | 1520 | 3.92 | 4.1 | 28.3 | 2.2 | 6.1 | 0.9 | < 0.05 | 1.60 | 11.9 | 3.53 | 0.10 | 0.6 | 60.8 |
| 107808 | | 17.7 | 1.10 | 0.90 | 4.15 | 1.09 | 5.56 | 2.0 | 146 | 54.4 | > 10000 | 9.98 | 0.5 | 30.5 | 20.2 | 9.2 | 8.9 | < 0.05 | 1.74 | 16.9 | 39.5 | 0.38 | 7.5 | 308 |
| 107809 | | 18.8 | 1.76 | 0.75 | 1.97 | 0.62 | 1.40 | 0.3 | 67 | 70.9 | 1190 | 3.49 | 4.0 | 30.6 | 1.7 | 2.2 | 0.7 | < 0.05 | 0.78 | 11.2 | 3.26 | 0.18 | 1.0 | 94.8 |
| 107810 | < 5 | 28.7 | 1.87 | 1.59 | 3.94 | 1.19 | 2.97 | 0.5 | 93 | 90.8 | 1980 | 4.92 | 2.9 | 49.1 | 3.9 | 6.1 | 1.6 | < 0.05 | 1.40 | 16.5 | 6.76 | 0.38 | 1.4 | 170 |
| 107811 | | 26.9 | 2.08 | 1.47 | 5.43 | 1.61 | 1.76 | 0.2 | 93 | 50.8 | 1100 | 4.72 | 0.8 | 46.9 | 2.6 | 4.9 | 1.1 | < 0.05 | 1.84 | 16.1 | 4.44 | 0.13 | 0.9 | 98.6 |
| 107812 | | 32.9 | 1.03 | 3.24 | 4.53 | 1.29 | 2.88 | 0.8 | 103 | 76.4 | 2870 | 6.56 | 2.0 | 46.7 | 3.1 | 6.0 | 1.3 | < 0.05 | 4.70 | 21.5 | 5.65 | 0.11 | 2.0 | 184 |
| 107813 | < 5 | 91.3 | 1.17 | 2.34 | 5.43 | 1.80 | 2.40 | 0.2 | 125 | 52.8 | 913 | 9.09 | 0.6 | 39.9 | 3.6 | 7.0 | 1.5 | < 0.05 | 2.09 | 27.3 | 5.67 | 0.16 | 0.9 | 161 |
| 107814 | | 28.6 | 1.91 | 1.11 | 5.44 | 1.64 | 1.79 | 0.3 | 83 | 76.1 | 2210 | 5.20 | 3.8 | 34.6 | 2.3 | 2.1 | 0.9 | < 0.05 | 1.65 | 14.8 | 4.75 | 0.41 | 0.9 | 88.2 |
| 107815 | | 21.8 | 1.61 | 1.25 | 4.99 | 1.53 | 2.16 | 0.2 | 83 | 76.9 | 2240 | 4.89 | 4.8 | 36.6 | 2.5 | 1.8 | 1.0 | < 0.05 | 1.73 | 16.1 | 3.75 | 0.11 | 1.2 | 79.6 |
| 107816 | < 5 | 21.4 | 2.00 | 1.20 | 5.36 | 1.72 | 1.81 | 0.2 | 67 | 76.9 | 706 | 3.88 | 4.3 | 39.2 | 2.3 | 1.9 | 0.9 | < 0.05 | 1.69 | 12.8 | 2.49 | 0.09 | 1.0 | 85.0 |
| 107817 | | 18.2 | 2.11 | 0.76 | 2.99 | 1.28 | 0.87 | < 0.1 | 60 | 75.0 | 438 | 3.04 | 4.3 | 32.5 | 0.8 | 1.5 | 0.3 | < 0.05 | 1.11 | 10.9 | 0.58 | 0.07 | < 0.1 | 41.9 |
| 107818 | | 12.8 | 2.04 | 0.72 | 4.59 | 1.25 | 1.02 | 0.1 | 70 | 85.0 | 659 | 3.20 | 4.8 | 24.1 | 1.1 | 1.3 | 0.4 | < 0.05 | 1.14 | 8.7 | 1.18 | 0.07 | 0.4 | 44.5 |
| 107819 | 6 | 16.6 | 2.17 | 0.74 | 5.70 | 1.83 | 1.13 | 0.2 | 55 | 64.2 | 394 | 3.36 | 4.0 | 26.4 | 1.0 | 1.3 | 0.4 | < 0.05 | 1.50 | 9.3 | 0.80 | 0.06 | 0.3 | 37.0 |
| 107820 | | 20.5 | 2.22 | 0.98 | 5.84 | 1.91 | 1.50 | 0.1 | 65 | 59.0 | 623 | 3.62 | 4.8 | 38.1 | 1.7 | 1.4 | 0.6 | < 0.05 | 1.75 | 12.4 | 1.70 | 0.11 | 0.6 | 60.6 |
| 107821 | | 22.7 | 2.31 | 0.95 | 6.03 | 1.95 | 1.33 | 0.1 | 55 | 49.7 | 341 | 2.47 | 4.6 | 33.4 | 1.3 | 1.5 | 0.5 | < 0.05 | 1.65 | 10.3 | 1.23 | 0.06 | 0.3 | 49.6 |
| 107822 | 17 | 21.4 | 1.44 | 0.90 | 4.63 | 1.30 | 2.08 | 0.2 | 50 | 78.6 | 808 | 3.38 | 1.3 | 28.6 | 2.5 | 1.3 | 1.0 | < 0.05 | 1.97 | 9.2 | 2.67 | 0.08 | 1.6 | 110 |
| 107823 | | 29.3 | 1.50 | 1.24 | 4.72 | 1.45 | 2.49 | 0.6 | 70 | 59.3 | 2720 | 4.55 | 0.4 | 30.9 | 3.3 | 3.3 | 1.3 | < 0.05 | 1.93 | 14.4 | 5.47 | 0.16 | 1.4 | 186 |
| 107824 | | 41.7 | 1.49 | 1.79 | 5.05 | 1.34 | 2.47 | 0.4 | 85 | 72.0 | 2130 | 5.79 | 1.0 | 40.2 | 4.2 | 5.6 | 1.8 | < 0.05 | 2.20 | 17.7 | 7.03 | 0.19 | 1.6 | 215 |
| 107825 | 6 | 22.0 | 1.75 | 1.13 | 4.98 | 1.38 | 2.09 | 0.2 | 63 | 62.4 | 2170 | 5.84 | 3.3 | 32.1 | 2.6 | 3.8 | 1.1 | < 0.05 | 1.70 | 13.9 | 4.53 | 0.12 | 1.5 | 115 |
| 107826 | | 27.6 | 2.18 | 1.05 | 6.20 | 1.65 | 1.40 | 0.2 | 69 | 69.0 | 569 | 3.95 | 4.6 | 41.3 | 1.8 | 2.3 | 0.7 | < 0.05 | 1.44 | 13.2 | 2.64 | 0.12 | 0.5 | 75.4 |
| 107827 | | 15.2 | 2.26 | 0.77 | 4.29 | 1.43 | 1.10 | < 0.1 | 59 | 57.8 | 558 | 3.03 | 4.7 | 29.3 | 1.1 | 1.5 | 0.4 | < 0.05 | 1.25 | 11.0 | 1.05 | 0.08 | < 0.1 | 42.6 |
| 107828 | 5 | 16.8 | 2.14 | 0.75 | 4.07 | 0.97 | 0.89 | 0.2 | 55 | 70.6 | 460 | 2.95 | 5.3 | 29.8 | 1.1 | 1.5 | 0.4 | < 0.05 | 1.09 | 11.1 | 0.95 | 0.06 | < 0.1 | 49.3 |
| 107829 | | 14.5 | 2.37 | 0.77 | 5.81 | 1.68 | 1.18 | 0.2 | 54 | 61.3 | 473 | 2.99 | 4.8 | 26.8 | 1.0 | 1.4 | 0.4 | < 0.05 | 1.28 | 10.2 | 0.77 | 0.06 | 0.4 | 36.7 |
| 107830 | | 38.8 | 1.82 | 1.42 | 5.60 | 1.39 | 2.31 | 0.4 | 102 | 80.7 | 3040 | 5.97 | 0.9 | 53.8 | 7.1 | 6.1 | 3.1 | < 0.05 | 1.94 | 17.9 | 15.8 | 0.29 | 2.6 | 162 |
| 107831 | < 5 | 34.1 | 1.94 | 2.59 | 5.73 | 1.63 | 2.74 | 0.3 | 100 | 86.5 | 1930 | 5.55 | 2.3 | 69.1 | 4.9 | 5.2 | 2.2 | < 0.05 | 2.33 | 20.6 | 11.1 | 0.36 | 1.7 | 186 |
| 107832 | | 34.7 | 2.07 | 1.49 | 5.10 | 1.72 | 1.67 | 0.4 | 100 | 109 | 2900 | 5.46 | 3.9 | 70.1 | 3.8 | 4.5 | 1.6 | < 0.05 | 1.78 | 21.6 | 8.14 | 0.22 | 1.4 | 144 |
| 107833 | | 50.8 | 1.82 | 1.99 | 5.49 | 1.68 | 2.32 | 0.6 | 105 | 113 | 4140 | 6.81 | 3.6 | 62.1 | 7.9 | 9.8 | 3.3 | < 0.05 | 2.02 | 20.4 | 15.9 | 0.26 | 3.0 | 181 |
| 107834 | 7 | 36.0 | 1.67 | 1.76 | 4.92 | 1.44 | 2.51 | 0.7 | 104 | 101 | 5610 | 7.44 | 3.7 | 54.0 | 5.4 | 4.7 | 2.3 | < 0.05 | 1.92 | 22.9 | 11.6 | 0.24 | 2.3 | 147 |
| 107835 | | 41.6 | 1.65 | 1.76 | 5.24 | 1.56 | 1.95 | 0.9 | 121 | 137 | 4590 | 7.60 | 4.3 | 74.8 | 5.0 | 9.2 | 2.2 | < 0.05 | 2.04 | 22.9 | 12.1 | 0.31 | 2.0 | 246 |
| 107836 | | 36.2 | 1.79 | 1.60 | 5.10 | 1.33 | 2.21 | 0.5 | 111 | 112 | 3140 | 6.61 | 4.0 | 58.4 | 4.3 | 5.3 | 1.8 | < 0.05 | 1.91 | 22.5 | 8.76 | 0.17 | 1.7 | 142 |
| 107837 | 6 | 37.7 | 2.03 | 1.68 | 5.26 | 1.47 | 1.62 | 0.2 | 113 | 197 | 1910 | 6.43 | 3.6 | 124 | 3.2 | 5.1 | 1.3 | < 0.05 | 2.18 | 24.9 | 5.10 | 0.17 | 1.1 | 107 |
| 107838 | | 34.7 | 1.39 | 1.39 | 2.15 | 0.90 | 2.97 | 0.6 | 107 | 108 | 3430 | 6.99 | 3.5 | 63.4 | 3.0 | 4.8 | 1.2 | < 0.05 | 0.56 | 27.1 | 5.44 | 0.20 | 0.9 | 148 |
| 107839 | | 60.4 | 1.61 | 1.34 | 3.58 | 1.13 | 1.84 | 0.8 | 93 | 123 | 3700 | 7.26 | 3.6 | 68.5 | 3.1 | 3.2 | 1.3 | < 0.05 | 1.19 | 26.3 | 5.28 | 0.32 | 1.1 | 282 |
| 107840 | < 5 | 36.6 | 1.53 | 1.24 | 4.55 | 1.24 | 2.42 | 0.4 | 88 | 73.1 | 4170 | 7.95 | 2.1 | 37.7 | 4.6 | 2.5 | 2.0 | < 0.05 | 1.45 | 16.4 | 12.3 | 0.16 | 1.9 | 92.6 |
| 107841 | | 49.0 | 1.33 | 1.79 | 4.35 | 1.26 | 4.01 | 1.0 | 87 | 72.3 | 5940 | 8.29 | 0.9 | 44.5 | 6.1 | 4.5 | 2.6 | < 0.05 | 1.83 | 23.3 | 11.6 | 0.25 | 2.3 | 210 |
| 107842 | | 80.0 | 0.37 | 2.63 | 2.13 | 0.99 | 7.27 | 1.1 | 115 | 86.4 | 3560 | 9.19 | < 0.1 | 34.0 | 12.9 | 6.1 | 5.7 | < 0.05 | 1.72 | 25.3 | 19.9 | 0.36 | 4.8 | 274 |
| 107843 | 8 | 160 | 0.07 | 5.27 | 3.57 | 1.81 | 3.62 | 0.6 | 109 | 33.0 | 3560 | 15.5 | 1.0 | 21.6 | 10.7 | 9.5 | 4.7 | < 0.05 | 1.40 | 40.6 | 20.5 | 0.31 | 3.9 | 382 |
| 107844 | | 73.7 | 1.12 | 3.90 | 4.43 | 2.18 | 5.95 | 0.9 | 96 | 49.3 | 4450 | 8.72 | 1.7 | 48.6 | 7.4 | 8.5 | 3.2 | < 0.05 | 1.78 | 30.9 | 13.5 | 0.46 | 2.8 | 566 |
| 107845 | | 65.8 | 1.35 | 2.49 | 5.00 | 2.30 | 1.60 | 0.4 | 125 | 260 | 3940 | 10.2 | 3.0 | 128 | 7.3 | 15.1 | 3.2 | < 0.05 | 1.50 | 36.4 | 16.1 | 1.21 | 2.9 | 738 |
| 107846 | 10 | 76.9 | 1.85 | 2.90 | 5.51 | 2.39 | 1.32 | 0.2 | 196 | 616 | 1670 | 7.78 | 4.3 | 204 | 3.5 | 33.1 | 1.5 | < 0.05 | 3.81 | 48.0 | 6.17 | 0.23 | 1.2 | 165 |
| 107847 | | 22.6 | 2.06 | 1.31 | 2.76 | 1.60 | 2.34 | 0.1 | 135 | 123 | 1080 | 5.78 | 3.9 | 74.9 | 1.6 | 6.3 | 0.6 | < 0.05 | 1.05 | 30.1 | 2.39 | 0.16 | 0.2 | 92.5 |
| 107848 | | 30.6 | 1.93 | 1.74 | 4.44 | 1.35 | 1.15 | 0.1 | 129 | 109 | 1500 | 6.40 | 4.4 | 67.5 | 2.1 | 3.8 | 0.9 | < 0.05 | 1.72 | 27.1 | 3.97 | 0.17 | 0.7 | 115 |
| 107849 | < 5 | 19.7 | 2.36 | 1.96 | 5.04 | 1.41 | 1.53 | 0.1 | 132 | 383 | 1070 | 5.27 | 4.7 | 91.3 | 1.7 | 3.6 | 0.6 | < 0.05 | 1.90 | 25.4 | 1.65 | 0.06 | 0.5 | 56.0 |
| 107850 | | 13.4 | 2.58 | 1.29 | 5.70 | 1.48 | 1.46 | < 0.1 | 77 | 186 | 638 | 3.79 | 3.6 | 58.0 | 1.4 | 1.7 | 0.5 | 1.29 | 1.58 | 16.6 | 1.81 | 0.06 | 0.9 | 43.5 |
| 107851 | | 21.1 | 2.24 | 1.01 | 6.43 | 1.68 | 1.37 | 0.1 | 60 | 60.2 | 786 | 3.40 | 4.1 | 32.7 | 1.5 | 1.3 | 0.6 | < 0.05 | 1.91 | 12.5 | 1.62 | 0.10 | 0.9 | 56.3 |
| 107852 | < 5 | 20.6 | 2.12 | 1.02 | 6.33 | 1.74 | 1.41 | 0.1 | 66 | 60.7 | 914 | 3.72 | 3.5 | 37.9 | 1.9 | 1.9 | 0.7 | < 0.05 | 1.78 | 13.9 | 2.19 | 0.09 | 0.7 | 59.9 |
| 107853 | | 19.1 | 2.33 | 1.07 | 6.61 | 1.98 | 1.51 | 0.1 | 70 | 66.5 | 796 | 3.62 | 4.1 | 37.1 | 1.8 | 2.0 | 0.7 | < 0.05 | 1.67 | 12.8 | 2.57 | 0.09 | 0.9 | 55.4 |
| 107854 | | 20.2 | 2.20 | 1.07 | 6.63 | 1.97 | 1.78 | 0.2 | 74 | 71.9 | 975 | 4.20 | 3.5 | 39.0 | 2.1 | 1.8 | 0.8 | < 0.05 | 1.83 | 14.4 | 3.06 | 0.11 | 1.0 | 80.1 |
| 107855 | < 5 | 22.3 | 2.14 | 0.85 | 6.29 | 1.76 | 1.70 | 0.3 | 67 | 51.6 | 2430 | 4.15 | 2.4 | 32.1 | 2.8 | 3.5 | 1.2 | < 0.05 | 1.68 | 12.8 | 4.78 | 0.25 | 1.0 | 107 |
| 107856 | | 17.4 | 2.00 | 0.60 | 2.95 | 1.20 | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107857 | | 22.6 | 2.11 | 0.95 | 5.40 | 1.08 | 1.49 | 0.2 | 67 | 81.0 | 959 | 4.12 | 4.4 | 36.5 | 1.9 | 1.8 | 0.8 | < 0.05 | 1.56 | 13.9 | 2.94 | 0.11 | 0.9 | 68.4 |
| 107858 | 11 | 43.1 | 2.12 | 1.71 | 5.59 | 1.60 | 2.21 | 0.6 | 106 | 177 | 3620 | 6.18 | 1.0 | 165 | 5.1 | 5.4 | 2.1 | < 0.05 | 1.99 | 25.6 | 11.5 | 0.42 | 1.8 | 227 |
| 107859 | | 51.9 | 2.22 | 1.81 | 6.08 | 1.78 | 1.51 | 0.2 | 106 | 183 | 1430 | 5.41 | 3.7 | 128 | 3.0 | 5.3 | 1.3 | < 0.05 | 2.42 | 26.3 | 5.38 | 0.18 | 1.2 | 102 |
| 107860 | | 48.8 | 2.22 | 1.41 | 5.61 | 1.58 | 1.50 | 0.3 | 96 | 338 | 2010 | 5.74 | 2.0 | 215 | 7.1 | 12.5 | 3.0 | < 0.05 | 1.93 | 31.0 | 10.7 | 0.21 | 2.4 | 125 |
| 107861 | < 5 | 48.5 | 1.90 | 1.33 | 5.58 | 1.65 | 1.50 | 0.4 | 89 | 137 | 1620 | 5.02 | 2.9 | 99.8 | 3.7 | 4.3 | 1.6 | < 0.05 | 2.29 | 19.3 | 7.00 | 0.19 | 1.2 | 126 |
| 107862 | | 36.9 | 2.09 | 1.39 | 6.23 | 1.67 | 1.45 | 0.2 | 85 | 93.1 | 1290 | 4.66 | 3.5 | 70.2 | 3.3 | 3.6 | 1.4 | < 0.05 | 2.06 | 18.0 | 6.56 | 0.21 | 1.5 | 142 |
| 107863 | | 30.0 | 2.08 | 1.20 | 5.82 | 1.60 | 1.33 | 0.2 | 74 | 94.0 | 902 | 3.89 | 4.2 | 61.5 | 2.1 | 3.0 | 0.9 | < 0.05 | 1.87 | 15.5 | 3.28 | 0.11 | 0.6 | 79.7 |
| 107864 | 6 | 36.5 | 1.40 | 1.85 | 5.01 | 1.21 | 3.39 | 0.8 | 113 | 71.2 | 3530 | 6.61 | < 0.1 | 52.3 | 17.5 | 7.7 | 7.3 | 0.41 | 2.28 | 19.5 | 25.6 | 0.37 | 5.8 | 193 |
| 107865 | | 27.5 | 2.07 | 1.29 | 5.96 | 1.56 | 1.51 | 0.2 | 86 | 94.5 | 1240 | 4.42 | 2.4 | 62.0 | 3.5 | 3.8 | 1.5 | < 0.05 | 1.92 | 16.7 | 8.08 | 0.16 | 1.5 | 83.0 |
| 107866 | | 36.4 | 1.18 | 1.37 | 1.32 | 0.92 | 1.77 | 0.6 | 104 | 96.9 | 5100 | 10.6 | 3.0 | 52.7 | 2.5 | 13.6 | 1.0 | < 0.05 | 0.64 | 30.8 | 5.42 | 0.19 | 1.0 | 149 |
| 107867 | 6 | 55.2 | 1.62 | 1.46 | 3.89 | 0.87 | 1.77 | 0.4 | 98 | 85.7 | 3370 | 6.18 | 1.7 | 50.7 | 4.3 | 4.2 | 1.8 | < 0.05 | 1.44 | 19.7 | 6.99 | 0.14 | 1.4 | 94.5 |
| 107868 | | 116 | > 3.00 | 2.64 | 5.45 | 1.16 | 0.88 | 0.1 | 90 | 63.0 | 1150 | 7.02 | 2.2 | 20.5 | 1.5 | 8.7 | 0.6 | < 0.05 | 1.43 | 15.6 | 2.38 | 0.13 | 0.6 | 127 |
| 107869 | | 26.4 | 1.90 | 1.65 | 5.53 | 1.41 | 2.28 | 0.2 | 89 | 98.6 | 985 | 4.45 | 3.3 | 57.7 | 2.2 | 3.1 | 0.9 | < 0.05 | 1.96 | 18.2 | 3.30 | 0.12 | 0.8 | 93.0 |
| 107870 | 7 | 37.1 | 1.72 | 1.15 | 5.23 | 1.11 | 2.03 | 0.5 | 89 | 56.5 | 2050 | 7.00 | 0.5 | 49.0 | 5.6 | 4.5 | 2.3 | < 0.05 | 1.30 | 23.1 | 8.14 | 0.21 | 1.9 | 148 |
| 107871 | | 30.8 | 1.55 | 1.99 | 4.75 | 1.34 | 3.42 | 0.5 | 87 | 74.5 | 2120 | 5.79 | 0.6 | 55.1 | 3.6 | 3.2 | 1.5 | < 0.05 | 2.00 | 21.5 | 6.26 | 0.16 | 1.1 | 154 |
| 107872 | | 37.4 | 1.55 | 1.24 | 4.66 | 1.25 | 2.71 | 0.8 | 84 | 70.6 | 5760 | 8.08 | 1.9 | 43.5 | 5.1 | 4.6 | 2.2 | < 0.05 | 1.72 | 22.0 | 11.2 | 0.18 | 1.9 | 112 |
| 107873 | 15 | 71.5 | 1.16 | 2.15 | 3.80 | 1.21 | 3.95 | 1.0 | 92 | 81.3 | 5890 | 9.79 | 1.3 | 45.8 | 6.4 | 6.5 | 2.8 | < 0.05 | 1.65 | 27.1 | 14.6 | 0.35 | 2.3 | 253 |
| 107874 | | 123 | 0.90 | 2.49 | 5.24 | 2.78 | 1.58 | 0.3 | 196 | 109 | 2000 | 10.8 | 0.7 | 48.0 | 5.2 | 6.4 | 2.2 | < 0.05 | 1.57 | 52.9 | 10.5 | 0.16 | 2.2 | 206 |
| 107875 | | 131 | 0.19 | 6.35 | 3.91 | 3.16 | 3.24 | 0.6 | 114 | 206 | 3160 | 9.03 | 0.2 | 119 | 5.5 | 12.1 | 2.5 | 0.24 | 2.72 | 34.5 | 12.5 | 0.08 | 2.1 | 167 |
| 107876 | 38 | 42.9 | 1.10 | 1.91 | 2.83 | 0.81 | 2.55 | 0.4 | 149 | 40.0 | 2680 | 8.34 | 1.8 | 34.2 | 4.4 | 7.0 | 2.0 | < 0.05 | 1.08 | 23.7 | 10.4 | 0.17 | 1.7 | 123 |
| 107877 | | 50.1 | 1.25 | 1.82 | 3.90 | 1.27 | 3.08 | 0.5 | 137 | 44.5 | 4600 | 9.72 | 0.4 | 45.1 | 6.4 | 7.2 | 2.9 | < 0.05 | 1.27 | 34.0 | 13.4 | 0.27 | 2.8 | 181 |
| 107878 | | 64.2 | 1.27 | 2.46 | 4.37 | 1.37 | 4.14 | 0.7 | 119 | 69.0 | 5260 | 8.62 | 0.2 | 50.9 | 6.3 | 6.8 | 2.7 | 0.71 | 1.86 | 30.2 | 11.8 | 0.27 | 2.2 | 231 |
| 107879 | 6 | 39.6 | 1.73 | 2.32 | 5.51 | 1.65 | 3.37 | 0.3 | 93 | 52.7 | 2170 | 5.90 | 0.3 | 54.1 | 3.5 | 4.6 | 1.5 | 0.92 | 1.94 | 22.2 | 5.93 | 0.15 | 1.4 | 138 |
| 107880 | | 36.4 | 1.78 | 1.79 | 5.70 | 1.73 | 2.32 | 0.4 | 93 | 108 | 2670 | 6.13 | 2.9 | 70.8 | 3.2 | 3.8 | 1.3 | < 0.05 | 1.96 | 24.1 | 5.33 | 0.18 | 1.2 | 120 |
| 107881 | | 24.4 | > 3.00 | 1.32 | 7.22 | 1.82 | 1.72 | < 0.1 | 99 | 78.9 | 492 | 5.61 | 3.7 | 50.1 | 1.7 | 2.4 | 0.7 | 1.14 | 2.12 | 23.8 | 1.59 | 0.07 | 0.5 | 76.3 |
| 107882 | 6 | 19.3 | > 3.00 | 2.20 | 6.53 | 0.54 | 1.33 | 0.1 | 140 | 92.4 | 1710 | 9.84 | 3.1 | 74.5 | 2.2 | 1.8 | 0.9 | 0.63 | 1.84 | 51.4 | 2.68 | 0.04 | 0.7 | 113 |
| 107883 | | 19.4 | > 3.00 | 1.24 | 5.21 | 0.92 | 0.89 | 0.1 | 137 | 40.5 | 1240 | 7.97 | 4.4 | 48.1 | 1.3 | 9.3 | 0.5 | 1.26 | 1.74 | 45.1 | 1.63 | 0.06 | 0.2 | 119 |
| 107884 | | 19.6 | 2.80 | 1.14 | 5.80 | 1.01 | 1.01 | 0.1 | 106 | 91.0 | 701 | 6.87 | 4.0 | 38.1 | 2.0 | 2.9 | 0.7 | < 0.05 | 2.09 | 25.4 | 1.92 | 0.08 | 0.6 | 78.3 |
| 107885 | 7 | 23.4 | > 3.00 | 0.81 | 4.55 | 0.35 | 0.28 | 0.1 | 236 | 27.3 | 909 | 9.17 | 4.4 | 48.3 | 1.5 | 12.4 | 0.6 | < 0.05 | 1.33 | 43.4 | 1.25 | 0.06 | 0.4 | 78.6 |
| 107886 | | 32.4 | 2.35 | 3.61 | 5.00 | 0.91 | 1.58 | 0.1 | 200 | 939 | 508 | 7.13 | 2.9 | 200 | 1.7 | 6.5 | 0.6 | < 0.05 | 2.66 | 50.2 | 2.37 | 0.04 | 0.7 | 84.4 |
| 107887 | | 59.4 | 2.47 | 4.54 | 4.00 | 0.52 | 5.94 | 0.3 | 151 | 575 | 3470 | 6.66 | 2.0 | 226 | 3.9 | 18.2 | 1.7 | 1.51 | 1.33 | 59.7 | 7.78 | 0.08 | 1.6 | 162 |
| 107888 | < 5 | 25.2 | 2.90 | 1.60 | 6.01 | 1.25 | 1.14 | 0.1 | 134 | 98.6 | 665 | 6.89 | 3.6 | 68.2 | 1.8 | 3.6 | 0.7 | 2.53 | 3.30 | 32.2 | 2.85 | 0.12 | 0.8 | 232 |
| 107889 | | 32.9 | 2.36 | 1.69 | 6.10 | 1.63 | 1.13 | 0.1 | 124 | 221 | 1050 | 6.64 | 3.5 | 119 | 2.6 | 6.0 | 1.1 | 1.95 | 3.35 | 33.8 | 3.93 | 0.20 | 0.8 | 102 |
| 107890 | | 25.9 | > 3.00 | 1.92 | 6.03 | 0.79 | 1.02 | 0.1 | 105 | 175 | 920 | 7.76 | 2.3 | 90.3 | 2.1 | 7.6 | 0.8 | 0.66 | 1.35 | 36.8 | 3.84 | 0.20 | 0.7 | 139 |
| 107891 | 9 | 53.5 | 1.56 | 1.99 | 5.34 | 1.90 | 1.71 | 0.4 | 136 | 257 | 2490 | 8.97 | 3.3 | 144 | 5.9 | 10.3 | 2.5 | < 0.05 | 1.61 | 32.2 | 11.1 | 0.75 | 2.3 | 369 |
| 107892 | | 105 | 0.43 | 4.59 | 2.43 | 1.63 | 7.74 | 1.4 | 160 | 375 | 8410 | 12.2 | 0.3 | 223 | 17.0 | 21.8 | 7.7 | < 0.05 | 1.48 | 36.9 | 37.3 | 1.11 | 7.1 | 687 |
| 107893 | | 202 | 0.37 | 5.29 | 3.45 | 2.41 | 4.88 | 1.1 | 150 | 667 | 5350 | 14.7 | 0.6 | 457 | 16.2 | 30.8 | 7.4 | < 0.05 | 1.79 | 70.2 | 43.5 | 1.28 | 6.3 | 673 |
| 107894 | 8 | 117 | 0.94 | 3.18 | 4.70 | 1.76 | 3.56 | 0.5 | 114 | 52.4 | 2930 | 10.3 | 0.3 | 37.8 | 8.1 | 11.9 | 3.5 | < 0.05 | 1.88 | 29.0 | 13.8 | 0.32 | 3.1 | 316 |
| 107895 | | 36.7 | 1.84 | 0.88 | 2.72 | 0.79 | 1.05 | 0.2 | 99 | 104 | 681 | 5.68 | 4.3 | 50.3 | 1.7 | 4.9 | 0.7 | < 0.05 | 1.06 | 16.9 | 2.64 | 0.27 | 0.7 | 178 |
| 107896 | | 29.6 | 1.50 | 2.46 | 4.08 | 1.04 | 3.11 | 0.3 | 149 | 119 | 2150 | 8.38 | 3.6 | 78.5 | 4.1 | 10.1 | 1.8 | < 0.05 | 1.59 | 32.4 | 9.85 | 1.78 | 1.5 | 390 |
| 107897 | 7 | 27.9 | 2.03 | 1.80 | 5.70 | 1.53 | 1.62 | 0.3 | 132 | 89.7 | 1440 | 7.04 | 3.8 | 67.6 | 2.4 | 3.4 | 1.0 | < 0.05 | 2.80 | 32.8 | 3.91 | 0.16 | 1.0 | 102 |
| 107898 | | 17.1 | 2.44 | 1.00 | 5.97 | 1.71 | 1.52 | 0.1 | 81 | 89.2 | 867 | 4.13 | 4.6 | 38.1 | 1.5 | 2.4 | 0.6 | < 0.05 | 1.78 | 17.1 | 1.88 | 0.09 | 0.5 | 63.4 |
| 107899 | | 40.1 | > 3.00 | 2.27 | 6.40 | 0.88 | 0.63 | < 0.1 | 95 | 39.6 | 1090 | 8.21 | 0.7 | 71.7 | 2.2 | 12.3 | 0.9 | 1.12 | 3.17 | 55.9 | 2.15 | 0.03 | 0.6 | 147 |
| 107900 | 11 | 38.3 | > 3.00 | 3.24 | 6.48 | 0.98 | 1.18 | 0.1 | 71 | 43.0 | 1110 | 9.59 | 1.3 | 74.5 | 2.0 | 7.1 | 0.8 | 0.86 | 4.30 | 56.3 | 2.40 | 0.04 | 1.3 | 139 |
| 107901 | | 40.8 | 2.00 | 2.09 | 4.57 | 1.28 | 1.45 | 0.3 | 127 | 356 | 2290 | 8.69 | 1.9 | 126 | 2.8 | 7.7 | 1.1 | 0.60 | 2.67 | 53.7 | 4.07 | 0.21 | 1.1 | 158 |
| 107902 | | 23.4 | > 3.00 | 1.54 | 5.81 | 0.64 | 0.92 | 0.1 | 104 | 66.4 | 498 | 6.65 | 2.1 | 59.1 | 2.2 | 6.7 | 0.8 | 0.21 | 2.19 | 42.7 | 2.19 | 0.04 | 0.6 | 146 |
| 107903 | 8 | 19.0 | > 3.00 | 1.36 | 5.87 | 0.50 | 0.95 | 0.1 | 94 | 45.9 | 1170 | 8.51 | 2.3 | 52.1 | 1.8 | 4.4 | 0.7 | 0.16 | 1.80 | 40.1 | 2.78 | 0.04 | 0.6 | 108 |
| 107904 | | 20.9 | > 3.00 | 1.66 | 5.64 | 0.64 | 1.52 | 0.1 | 78 | 51.5 | 992 | 7.57 | 2.0 | 59.4 | 1.7 | 4.4 | 0.6 | 0.11 | 1.96 | 41.3 | 2.07 | 0.05 | 0.5 | 119 |
| 107905 | | 20.9 | 2.88 | 2.01 | 2.10 | 0.44 | 1.08 | 0.2 | 286 | 49.5 | 820 | 9.17 | 4.2 | 67.5 | 0.8 | 6.1 | 0.3 | < 0.05 | 0.65 | 50.9 | 1.12 | 0.04 | 0.5 | 113 |
| 107906 | < 5 | 25.3 | 2.59 | 1.38 | 4.76 | 1.15 | 1.12 | < 0.1 | 161 | 107 | 774 | 6.17 | 4.9 | 57.7 | 1.6 | 3.9 | 0.6 | < 0.05 | 1.80 | 29.6 | 1.71 | 0.11 | 0.5 | 81.1 |
| 107907 | | 23.1 | 2.20 | 1.33 | 4.98 | 1.48 | 1.50 | 0.1 | 127 | 120 | 465 | 6.20 | 4.7 | 61.7 | 2.2 | 5.1 | 0.9 | < 0.05 | 2.27 | 24.7 | 3.97 | 0.47 | 1.0 | 192 |
| 107908 | | 45.8 | 2.08 | 1.64 | 5.44 | 1.51 | 1.11 | 0.3 | 179 | 163 | 1480 | 8.59 | 3. | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107909 | 8 | 55.8 | 1.67 | 2.36 | 5.42 | 1.70 | 0.91 | 0.1 | 157 | 116 | 1440 | 10.8 | 2.7 | 79.5 | 2.2 | 15.2 | 1.0 | < 0.05 | 2.88 | 35.0 | 7.15 | 0.81 | 1.1 | 375 |
| 107910 | | 69.1 | 1.64 | 2.60 | 4.16 | 1.32 | 1.82 | 0.7 | 186 | 168 | > 10000 | 13.0 | 2.3 | 141 | 12.4 | 18.7 | 5.7 | < 0.05 | 4.57 | 49.7 | 24.3 | 1.19 | 5.2 | 400 |
| 107911 | | 76.6 | 1.26 | 2.40 | 4.88 | 1.09 | 2.22 | 0.5 | 109 | 159 | 3660 | 8.85 | 0.7 | 116 | 8.6 | 10.4 | 3.6 | < 0.05 | 1.57 | 32.7 | 14.9 | 0.42 | 3.0 | 337 |
| 107912 | 6 | 46.3 | 0.96 | 1.76 | 3.36 | 1.02 | 3.55 | 0.7 | 111 | 58.4 | 3210 | 10.8 | 0.1 | 38.4 | 7.8 | 8.3 | 3.3 | < 0.05 | 2.12 | 22.4 | 12.8 | 0.62 | 2.9 | 357 |
| 107913 | | 92.8 | 1.19 | 3.06 | 4.87 | 1.18 | 2.43 | 0.6 | 133 | 180 | 4610 | 9.67 | 0.1 | 152 | 7.2 | 16.1 | 3.2 | < 0.05 | 2.06 | 38.0 | 13.0 | 0.29 | 3.0 | 341 |
| 107914 | | 105 | 1.34 | 2.63 | 5.12 | 1.90 | 2.12 | 0.6 | 117 | 68.4 | 3780 | 9.34 | < 0.1 | 43.2 | 4.7 | 8.7 | 2.1 | < 0.05 | 2.26 | 27.5 | 11.8 | 0.16 | 2.1 | 236 |
| 107915 | 9 | 55.1 | 1.52 | 2.48 | 5.13 | 1.75 | 3.76 | 0.4 | 110 | 56.6 | 2430 | 7.60 | 0.4 | 50.8 | 4.3 | 10.2 | 1.9 | < 0.05 | 2.06 | 26.3 | 8.71 | 0.19 | 1.6 | 186 |
| 107916 | | 81.1 | 1.17 | 3.06 | 4.96 | 1.70 | 3.07 | 0.7 | 146 | 46.8 | 4770 | 9.99 | < 0.1 | 58.9 | 5.5 | 8.4 | 2.5 | 0.20 | 2.40 | 35.8 | 10.8 | 0.24 | 1.8 | 245 |
| 107917 | | 94.2 | 0.80 | 4.00 | 4.23 | 1.14 | 3.34 | 0.5 | 116 | 46.0 | 4430 | 13.0 | < 0.1 | 61.4 | 4.7 | 11.0 | 2.1 | 0.30 | 2.08 | 41.9 | 14.6 | 0.38 | 1.7 | 319 |
| 107918 | < 5 | 12.7 | 0.28 | 1.29 | 1.09 | 0.44 | 6.97 | 0.8 | 34 | 25.8 | 2590 | 3.86 | < 0.1 | 17.4 | 4.7 | 1.1 | 2.2 | < 0.05 | 0.96 | 12.9 | 10.4 | 0.25 | 2.6 | 178 |
| 107919 | | 21.4 | 1.02 | 1.20 | 3.21 | 0.98 | 4.71 | 0.3 | 67 | 62.4 | 1440 | 3.90 | < 0.1 | 43.9 | 2.5 | 2.9 | 1.0 | 0.22 | 2.51 | 15.2 | 4.22 | 0.12 | 1.2 | 116 |
| 107920 | | 63.5 | 1.71 | 1.94 | 5.44 | 1.43 | 3.20 | 0.4 | 92 | 66.2 | 2490 | 7.73 | 0.7 | 56.8 | 4.1 | 4.5 | 1.8 | < 0.05 | 1.99 | 25.4 | 7.97 | 0.16 | 1.4 | 151 |
| 107921 | 7 | 49.5 | 1.34 | 1.77 | 4.04 | 0.90 | 3.78 | 0.6 | 133 | 98.3 | 4440 | 11.3 | 1.0 | 68.9 | 4.5 | 4.0 | 1.9 | < 0.05 | 1.40 | 33.3 | 8.29 | 0.19 | 1.3 | 257 |
| 107922 | | 22.3 | 1.00 | 1.92 | 3.63 | 1.14 | 6.99 | 0.4 | 72 | 67.2 | 4160 | 8.55 | 0.2 | 43.6 | 3.3 | 3.6 | 1.4 | < 0.05 | 1.36 | 20.9 | 5.72 | 0.11 | 1.3 | 135 |
| 107923 | | 41.5 | 1.91 | 2.52 | 6.14 | 1.50 | 3.93 | 0.3 | 116 | 82.9 | 1730 | 7.67 | < 0.1 | 85.3 | 3.2 | 4.4 | 1.3 | < 0.05 | 2.03 | 30.8 | 5.42 | 0.17 | 0.8 | 208 |
| 107924 | 7 | 81.9 | 1.58 | 2.20 | 5.67 | 1.58 | 2.70 | 0.8 | 129 | 114 | 4040 | 11.3 | < 0.1 | 50.8 | 4.6 | 5.5 | 2.0 | < 0.05 | 2.08 | 36.5 | 10.4 | 0.48 | 1.4 | 337 |
| 107925 | | 70.8 | 2.30 | 2.28 | 7.14 | 1.83 | 2.80 | 0.3 | 130 | 114 | 3390 | 8.12 | 2.1 | 74.4 | 8.0 | 10.6 | 3.3 | < 0.05 | 1.60 | 27.4 | 14.2 | 0.21 | 2.5 | 141 |
| 107926 | | 30.4 | 1.81 | 1.43 | 5.73 | 1.69 | 2.84 | 0.3 | 91 | 88.4 | 1800 | 5.35 | 0.9 | 59.7 | 4.1 | 3.3 | 1.7 | < 0.05 | 1.84 | 18.2 | 7.73 | 0.16 | 1.7 | 131 |
| 107927 | 8 | 50.3 | 1.90 | 1.95 | 6.43 | 1.98 | 3.20 | 0.5 | 124 | 124 | 4720 | 8.75 | 0.5 | 65.7 | 7.0 | 5.4 | 2.9 | < 0.05 | 1.90 | 26.9 | 12.4 | 0.27 | 1.9 | 222 |
| 107928 | | 55.9 | 2.32 | 1.81 | 6.71 | 1.84 | 2.04 | 0.3 | 121 | 150 | 2250 | 6.80 | 3.3 | 88.6 | 5.2 | 5.0 | 2.3 | < 0.05 | 2.44 | 23.4 | 11.9 | 0.33 | 2.1 | 219 |
| 107929 | | 37.9 | 1.01 | 1.69 | 3.15 | 0.76 | 14.6 | 3.4 | 95 | 78.2 | > 10000 | 10.0 | 0.1 | 59.9 | 31.6 | 8.0 | 13.5 | < 0.05 | 1.14 | 34.8 | 53.5 | 0.52 | 11.4 | 1190 |
| 107930 | < 5 | 33.7 | 2.09 | 1.08 | 6.28 | 1.87 | 2.19 | 0.4 | 117 | 133 | 1630 | 6.44 | 2.5 | 60.5 | 4.9 | 4.7 | 2.6 | < 0.05 | 2.32 | 13.6 | 23.0 | 0.62 | 3.1 | 204 |
| 107931 | | 49.9 | 2.42 | 1.42 | 4.56 | 0.76 | 2.05 | 0.2 | 103 | 150 | 1760 | 5.51 | 1.6 | 99.8 | 2.6 | 5.3 | 1.2 | < 0.05 | 1.54 | 22.9 | 5.98 | 0.19 | 1.0 | 199 |
| 107932 | | 40.1 | 2.42 | 1.40 | 7.01 | 1.37 | 2.24 | 0.1 | 101 | 127 | 1300 | 5.36 | 1.8 | 76.8 | 3.6 | 6.6 | 1.5 | < 0.05 | 1.96 | 17.1 | 8.78 | 0.21 | 1.7 | 144 |
| 107933 | 7 | 38.8 | 2.16 | 1.02 | 6.26 | 1.26 | 1.23 | 0.2 | 59 | 97.9 | 479 | 4.06 | 2.0 | 37.1 | 1.4 | 2.1 | 0.5 | < 0.05 | 2.14 | 10.1 | 3.45 | 0.14 | 0.3 | 75.8 |
| 107934 | | 20.0 | 2.38 | 0.85 | 7.20 | 1.63 | 1.50 | 0.1 | 59 | 56.6 | 440 | 3.82 | 0.6 | 32.3 | 1.2 | 1.3 | 0.5 | < 0.05 | 1.59 | 10.7 | 1.18 | 0.06 | 0.2 | 54.4 |
| 107935 | | 19.5 | 2.22 | 0.97 | 6.72 | 1.48 | 1.53 | 0.2 | 65 | 70.3 | 764 | 4.15 | 3.7 | 42.4 | 1.7 | 1.4 | 0.7 | < 0.05 | 1.72 | 14.8 | 2.46 | 0.08 | 0.4 | 59.4 |
| 107936 | < 5 | 19.7 | 2.36 | 0.94 | 6.90 | 1.89 | 1.64 | 0.1 | 67 | 71.4 | 505 | 3.95 | 2.0 | 33.9 | 1.4 | 1.4 | 0.5 | < 0.05 | 1.72 | 11.6 | 1.39 | 0.06 | 0.2 | 49.7 |
| 107937 | | 17.7 | 2.73 | 0.98 | 7.72 | 2.39 | 1.70 | 0.1 | 65 | 75.8 | 639 | 4.00 | 4.4 | 39.5 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.59 | 14.9 | 1.01 | 0.07 | 0.2 | 58.0 |
| 107938 | | 19.5 | 2.47 | 1.14 | 7.30 | 2.15 | 2.32 | 0.1 | 71 | 74.2 | 428 | 3.93 | 4.4 | 33.6 | 1.7 | 1.6 | 0.6 | < 0.05 | 2.08 | 10.8 | 1.81 | 0.06 | 0.8 | 107 |
| 107939 | < 5 | 37.3 | 2.63 | 0.90 | 7.25 | 2.28 | 1.75 | 0.1 | 64 | 71.8 | 768 | 3.87 | 4.2 | 39.1 | 1.6 | 1.4 | 0.6 | < 0.05 | 1.46 | 14.1 | 1.55 | 0.06 | 0.2 | 51.9 |
| 107940 | | 19.3 | 2.31 | 0.88 | 6.28 | 1.79 | 1.56 | 0.1 | 61 | 59.3 | 680 | 3.67 | 3.3 | 29.0 | 1.4 | 1.5 | 0.5 | < 0.05 | 1.60 | 12.2 | 1.56 | 0.07 | 0.3 | 50.2 |
| 107941 | | 16.5 | 2.18 | 0.74 | 4.20 | 0.82 | 1.29 | 0.1 | 61 | 70.5 | 611 | 3.31 | 4.7 | 31.7 | 1.3 | 1.4 | 0.5 | < 0.05 | 1.40 | 12.1 | 1.18 | 0.07 | 0.2 | 48.1 |
| 107942 | < 5 | 69.6 | 1.25 | 2.95 | 4.88 | 1.45 | 3.81 | 1.1 | 107 | 84.9 | 5810 | 10.8 | 0.2 | 70.5 | 5.8 | 9.4 | 2.5 | < 0.05 | 2.21 | 35.1 | 11.3 | 0.32 | 2.2 | 359 |
| 107943 | | 37.8 | 2.05 | 2.09 | 5.87 | 1.56 | 3.04 | 0.4 | 137 | 86.7 | 2050 | 8.11 | 1.1 | 89.8 | 4.7 | 5.1 | 2.0 | < 0.05 | 2.34 | 28.8 | 7.33 | 0.15 | 1.6 | 209 |
| 107944 | | 40.3 | 1.83 | 1.75 | 5.87 | 1.88 | 1.91 | 0.3 | 114 | 101 | 1700 | 6.51 | 2.1 | 81.1 | 3.4 | 4.4 | 1.4 | < 0.05 | 2.33 | 23.0 | 5.37 | 0.13 | 0.8 | 165 |
| 107945 | < 5 | 50.1 | 1.86 | 1.77 | 5.99 | 1.88 | 2.87 | 0.5 | 107 | 80.7 | 3730 | 7.13 | 0.4 | 58.3 | 4.9 | 4.3 | 2.0 | < 0.05 | 2.20 | 22.0 | 9.29 | 0.17 | 1.6 | 160 |
| 107946 | | 36.2 | 1.47 | 1.65 | 5.19 | 1.53 | 3.28 | 0.9 | 104 | 121 | 3900 | 6.42 | 0.2 | 72.5 | 5.7 | 4.8 | 2.4 | < 0.05 | 2.27 | 21.3 | 11.4 | 0.26 | 1.8 | 178 |
| 107947 | | 26.6 | 0.71 | 1.68 | 2.69 | 0.80 | 7.38 | 4.2 | 150 | 70.0 | > 10000 | 9.89 | < 0.1 | 41.9 | 14.8 | 7.1 | 7.3 | < 0.05 | 1.56 | 18.6 | 60.2 | 0.72 | 7.0 | 544 |
| 107948 | 11 | 29.2 | 1.79 | 1.28 | 5.36 | 1.38 | 3.22 | 0.4 | 105 | 75.8 | 2660 | 9.34 | 0.4 | 44.4 | 6.3 | 5.0 | 2.7 | < 0.05 | 2.05 | 27.1 | 13.0 | 0.35 | 2.5 | 212 |
| 107949 | | 150 | 1.12 | 4.40 | 2.67 | 0.69 | 0.97 | 0.8 | 91 | 108 | 1520 | 7.81 | 2.4 | 57.6 | 2.1 | 13.4 | 0.9 | < 0.05 | 3.02 | 22.4 | 5.74 | 0.38 | 0.6 | 169 |
| 107950 | | 20.5 | 2.13 | 0.83 | 5.66 | 1.42 | 1.07 | 0.3 | 105 | 147 | 527 | 4.56 | 3.4 | 57.4 | 1.7 | 2.9 | 0.7 | < 0.05 | 2.26 | 12.1 | 4.59 | 0.20 | 0.5 | 56.0 |
| 107951 | 8 | 42.5 | 2.37 | 1.43 | 6.53 | 1.65 | 1.82 | 0.1 | 120 | 123 | 982 | 5.17 | 0.3 | 70.9 | 2.6 | 3.8 | 1.1 | < 0.05 | 2.61 | 16.6 | 5.79 | 0.21 | 1.1 | 86.9 |
| 107952 | | 68.9 | 2.25 | 2.21 | 6.29 | 1.95 | 2.25 | 0.3 | 129 | 262 | 2640 | 6.94 | 3.6 | 187 | 4.2 | 8.0 | 1.8 | < 0.05 | 2.65 | 35.5 | 8.54 | 0.24 | 1.8 | 176 |
| 107953 | | 80.2 | 2.58 | 3.39 | 5.36 | 1.57 | 1.35 | 0.4 | 112 | 178 | 2600 | 10.3 | 0.5 | 107 | 2.2 | 11.7 | 0.9 | < 0.05 | 3.69 | 65.7 | 5.30 | 0.22 | 0.7 | 308 |
| 107954 | < 5 | 33.2 | 2.19 | 1.26 | 6.51 | 1.86 | 1.70 | 0.2 | 80 | 123 | 1360 | 5.11 | 1.3 | 93.1 | 2.9 | 4.0 | 1.2 | < 0.05 | 2.45 | 20.7 | 4.84 | 0.14 | 0.9 | 79.3 |
| 107955 | | 26.7 | 2.08 | 0.96 | 6.33 | 1.72 | 1.74 | 0.2 | 72 | 70.2 | 1000 | 4.09 | 1.7 | 46.5 | 4.0 | 2.7 | 1.7 | < 0.05 | 1.83 | 12.9 | 9.52 | 0.22 | 1.5 | 116 |
| 107956 | | 24.7 | 2.18 | 1.03 | 6.39 | 1.82 | 1.70 | 0.2 | 72 | 68.1 | 1220 | 4.30 | 2.8 | 35.8 | 2.7 | 2.5 | 1.1 | < 0.05 | 1.64 | 14.0 | 4.59 | 0.15 | 1.0 | 83.6 |
| 107957 | < 5 | 31.6 | 1.83 | 1.31 | 5.89 | 1.64 | 2.46 | 0.7 | 99 | 81.1 | 1480 | 6.09 | 1.3 | 49.5 | 4.2 | 4.3 | 1.8 | < 0.05 | 2.22 | 15.1 | 8.25 | 0.29 | 1.4 | 113 |
| 107958 | | 71.3 | 1.98 | 2.24 | 5.72 | 1.47 | 2.88 | 0.5 | 108 | 77.2 | 2300 | 6.16 | < 0.1 | 48.0 | 5.3 | 5.1 | 2.3 | < 0.05 | 2.67 | 19.9 | 9.11 | 0.27 | 1.7 | 230 |
| 107959 | | 29.1 | 1.96 | 1.46 | 5.45 | 1.13 | 2.49 | 0.5 | 96 | 71.7 | 1530 | 5.28 | 0.9 | 55.0 | 3.1 | 4.0 | 1.3 | < 0.05 | 1.84 | 18.8 | 6.16 | 0.13 | 0.9 | 151 |
| 107960 | 5 | 16.8 | 2.35 | 0.91 | 6.25 | 1 | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107961 | | 17.8 | 2.24 | 0.83 | 6.23 | 1.51 | 1.45 | < 0.1 | 62 | 54.8 | 417 | 3.29 | 0.5 | 28.9 | 1.5 | 1.2 | 0.5 | < 0.05 | 1.51 | 9.7 | 1.68 | 0.08 | 0.3 | 40.3 |
| 107962 | | 23.0 | 2.07 | 1.18 | 6.14 | 1.44 | 1.99 | 0.2 | 75 | 55.9 | 1360 | 4.38 | 0.7 | 44.9 | 3.0 | 2.8 | 1.2 | < 0.05 | 2.06 | 15.3 | 4.82 | 0.17 | 1.1 | 97.5 |
| 107963 | 9 | 23.5 | 1.59 | 1.16 | 5.03 | 1.45 | 3.34 | 0.5 | 86 | 53.9 | 1800 | 5.99 | 0.4 | 33.5 | 6.6 | 2.7 | 2.8 | < 0.05 | 2.10 | 13.8 | 12.1 | 0.29 | 3.1 | 213 |
| 107964 | | 67.4 | 1.82 | 1.93 | 5.78 | 1.55 | 2.44 | 0.2 | 97 | 76.6 | 2310 | 6.02 | 1.4 | 51.2 | 4.2 | 3.5 | 1.8 | < 0.05 | 2.48 | 18.9 | 8.47 | 0.18 | 1.8 | 164 |
| 107965 | | 33.8 | 2.02 | 1.17 | 6.55 | 1.70 | 1.96 | 0.2 | 77 | 71.8 | 964 | 4.89 | < 0.1 | 57.5 | 3.4 | 3.1 | 1.5 | < 0.05 | 1.69 | 14.5 | 7.72 | 0.21 | 1.0 | 144 |
| 107966 | < 5 | 26.5 | 2.32 | 1.14 | 6.44 | 2.08 | 1.57 | 0.1 | 93 | 133 | 548 | 4.19 | 4.5 | 70.8 | 2.0 | 3.0 | 0.8 | < 0.05 | 2.40 | 13.6 | 2.99 | 0.11 | 0.7 | 73.3 |
| 107967 | | 25.0 | 2.40 | 1.04 | 7.06 | 2.07 | 1.43 | 0.2 | 76 | 102 | 902 | 4.45 | 3.3 | 56.0 | 1.5 | 2.4 | 0.6 | < 0.05 | 2.22 | 17.7 | 2.22 | 0.10 | 0.5 | 69.9 |
| 107968 | | 15.7 | 2.07 | 0.72 | 5.74 | 1.73 | 1.29 | 0.1 | 63 | 70.4 | 580 | 3.94 | 3.4 | 29.2 | 1.4 | 2.3 | 0.5 | < 0.05 | 1.55 | 9.5 | 1.66 | 0.08 | 0.7 | 49.1 |
| 107969 | 14 | 38.5 | 2.20 | 1.15 | 6.36 | 1.71 | 1.37 | 0.2 | 81 | 105 | 709 | 4.57 | 2.0 | 66.7 | 1.8 | 2.8 | 0.7 | < 0.05 | 1.94 | 15.0 | 3.11 | 0.14 | 0.6 | 83.5 |
| 107970 | | 33.7 | 1.59 | 1.80 | 4.23 | 0.73 | 2.97 | 0.4 | 132 | 82.6 | 2710 | 6.75 | 1.3 | 66.0 | 4.3 | 5.1 | 1.9 | < 0.05 | 2.22 | 24.7 | 9.34 | 0.32 | 1.8 | 175 |
| 107971 | | 28.9 | 1.15 | 1.67 | 3.89 | 1.02 | 3.04 | 0.5 | 88 | 71.7 | 3130 | 5.51 | < 0.1 | 59.7 | 4.8 | 6.4 | 2.0 | < 0.05 | 2.35 | 21.8 | 9.20 | 0.30 | 1.4 | 230 |
| 107972 | 15 | 166 | 0.41 | 3.44 | 4.82 | 2.14 | 2.17 | 0.3 | 141 | 49.0 | 1560 | 14.1 | < 0.1 | 28.8 | 4.4 | 84.7 | 1.7 | < 0.05 | 1.71 | 43.0 | 6.17 | 0.20 | 1.4 | 343 |
| 107973 | | 62.1 | 0.13 | 3.60 | 1.04 | 0.21 | 11.4 | 5.7 | 252 | 27.1 | > 10000 | 17.3 | < 0.1 | 62.4 | 27.6 | 3.2 | 13.0 | 0.23 | 0.77 | 59.4 | 65.1 | 1.76 | 11.1 | 1080 |
| 107974 | | 85.4 | 0.62 | 3.12 | 3.40 | 0.64 | 4.29 | 1.2 | 109 | 54.3 | 4310 | 6.98 | < 0.1 | 34.2 | 7.8 | 6.5 | 3.2 | < 0.05 | 2.47 | 22.2 | 15.3 | 0.33 | 2.9 | 239 |
| 107975 | 18 | 122 | 1.17 | 2.55 | 4.98 | 1.58 | 3.22 | 0.9 | 132 | 107 | 5230 | 10.6 | < 0.1 | 58.4 | 9.5 | 10.1 | 4.1 | < 0.05 | 2.46 | 41.5 | 21.7 | 0.43 | 3.7 | 288 |
| 106801 | | 62.6 | 1.76 | 2.36 | 5.69 | 2.06 | 2.44 | 0.6 | 144 | 94.7 | 2950 | 8.90 | 1.4 | 61.9 | 4.8 | 6.8 | 2.1 | < 0.05 | 2.32 | 31.0 | 9.18 | 0.24 | 1.9 | 220 |
| 106802 | | 72.5 | 1.75 | 3.03 | 6.61 | 2.51 | 3.38 | 0.5 | 160 | 122 | 3330 | 12.7 | 0.5 | 55.9 | 6.5 | 8.2 | 2.9 | < 0.05 | 2.22 | 27.8 | 14.6 | 0.35 | 2.8 | 298 |
| 106803 | 13 | 39.8 | 1.91 | 1.84 | 5.59 | 2.27 | 3.06 | 0.4 | 174 | 104 | 2020 | 10.5 | < 0.1 | 67.4 | 4.8 | 7.4 | 2.1 | < 0.05 | 2.38 | 22.4 | 11.7 | 0.32 | 2.2 | 186 |
| 106804 | | 28.9 | 0.68 | 2.06 | 2.50 | 0.92 | 5.51 | 3.0 | 150 | 47.3 | > 10000 | 18.3 | 2.2 | 38.9 | 13.1 | 5.6 | 5.7 | < 0.05 | 1.60 | 16.7 | 26.5 | 0.46 | 5.0 | 858 |
| 106805 | | 34.7 | 1.13 | 1.42 | 4.04 | 1.15 | 5.36 | 1.0 | 153 | 95.9 | 3420 | 11.2 | < 0.1 | 62.3 | 15.8 | 9.9 | 6.0 | 0.06 | 1.28 | 37.1 | 16.9 | 0.55 | 4.8 | 223 |
| 106806 | 21 | 49.5 | 1.81 | 3.42 | 5.07 | 1.90 | 4.49 | 0.4 | 81 | 148 | 2870 | 8.29 | 1.1 | 114 | 4.4 | 11.4 | 1.8 | 0.83 | 2.28 | 36.9 | 8.19 | 0.51 | 1.9 | 369 |
| 106807 | | 41.5 | 1.95 | 2.47 | 4.99 | 1.86 | 3.62 | 0.3 | 96 | 126 | 3080 | 8.18 | 1.1 | 82.7 | 4.8 | 9.1 | 2.0 | < 0.05 | 1.92 | 30.7 | 10.1 | 0.44 | 2.0 | 300 |
| 106808 | | 71.1 | 2.78 | 2.09 | 6.77 | 2.09 | 1.25 | 0.2 | 62 | 129 | 988 | 8.57 | 1.0 | 82.5 | 2.1 | 6.9 | 0.8 | 0.45 | 2.24 | 31.6 | 3.80 | 0.23 | 1.1 | 203 |
| 106809 | 20 | 44.7 | > 3.00 | 3.53 | 6.45 | 1.21 | 2.04 | 0.3 | 62 | 61.9 | 1660 | 10.0 | 1.5 | 83.6 | 2.0 | 9.5 | 0.8 | 0.38 | 2.48 | 53.2 | 2.62 | 0.06 | 1.0 | 182 |
| 106810 | | 33.5 | > 3.00 | 1.76 | 7.27 | 1.69 | 1.24 | < 0.1 | 56 | 82.3 | 1280 | 9.34 | 1.8 | 70.4 | 2.1 | 5.2 | 0.9 | 0.27 | 2.04 | 45.1 | 3.03 | 0.11 | 0.7 | 127 |
| 106811 | | 17.5 | > 3.00 | 2.13 | 6.06 | 0.55 | 1.82 | 0.2 | 78 | 73.2 | 1930 | 12.0 | 1.6 | 74.3 | 1.8 | 5.2 | 0.7 | 0.27 | 1.76 | 48.5 | 3.85 | 0.07 | 1.1 | 143 |
| 106812 | 12 | 23.3 | 2.85 | 3.42 | 6.10 | 0.57 | 1.42 | 0.1 | 51 | 69.8 | 1080 | 9.99 | 0.9 | 82.2 | 3.0 | 4.0 | 1.2 | 0.11 | 1.75 | 53.0 | 3.41 | 0.07 | 0.8 | 110 |
| 106813 | | 16.0 | > 3.00 | 1.74 | 3.74 | 0.51 | 1.05 | 0.1 | 160 | 49.0 | 1250 | 9.71 | 4.0 | 53.5 | 1.1 | 4.6 | 0.4 | < 0.05 | 1.36 | 44.7 | 1.24 | 0.04 | 0.6 | 109 |
| 106814 | | 27.2 | > 3.00 | 2.86 | 6.28 | 0.96 | 1.04 | < 0.1 | 103 | 327 | 1320 | 10.7 | 2.0 | 134 | 1.7 | 5.9 | 0.6 | < 0.05 | 3.10 | 57.2 | 1.61 | 0.08 | 0.6 | 111 |
| 106815 | 12 | 55.2 | 1.81 | 3.11 | 5.93 | 1.77 | 1.26 | 0.1 | 69 | 67.2 | 1990 | 13.9 | 0.3 | 100 | 2.3 | 9.9 | 0.9 | < 0.05 | 4.17 | 71.8 | 3.88 | 0.20 | 0.8 | 148 |
| 106816 | | 21.6 | > 3.00 | 1.95 | 6.80 | 1.41 | 1.84 | < 0.1 | 53 | 127 | 1660 | 8.12 | 0.6 | 78.9 | 1.8 | 4.8 | 0.7 | < 0.05 | 2.39 | 37.7 | 2.15 | 0.11 | 0.7 | 95.4 |
| 106817 | | 73.7 | 2.97 | 2.03 | 6.43 | 1.99 | 1.71 | 0.2 | 79 | 122 | 2240 | 9.55 | 0.3 | 93.5 | 3.2 | 7.9 | 1.3 | < 0.05 | 2.84 | 41.0 | 6.08 | 0.27 | 1.3 | 240 |
| 106818 | 11 | 61.2 | > 3.00 | 3.26 | 7.42 | 2.15 | 0.57 | 0.2 | 35 | 61.3 | 1090 | 12.3 | 0.7 | 97.0 | 1.5 | 10.6 | 0.6 | < 0.05 | 3.60 | 63.5 | 2.13 | 0.12 | 0.5 | 189 |
| 106819 | | 39.8 | > 3.00 | 2.17 | 6.21 | 1.42 | 1.25 | 0.1 | 68 | 69.7 | 1890 | 8.28 | 1.1 | 79.1 | 2.4 | 8.5 | 1.0 | < 0.05 | 3.04 | 42.9 | 4.51 | 0.19 | 0.9 | 181 |
| 106820 | | 64.8 | > 3.00 | 2.59 | 6.60 | 1.34 | 1.10 | 0.1 | 68 | 79.0 | 2100 | 10.4 | 0.8 | 100 | 2.4 | 8.8 | 1.0 | < 0.05 | 4.62 | 59.1 | 4.25 | 0.27 | 0.6 | 216 |
| 106821 | 7 | 57.0 | 2.01 | 2.87 | 5.48 | 2.11 | 3.25 | 0.4 | 138 | 179 | 3170 | 10.2 | 2.2 | 138 | 5.6 | 11.1 | 2.4 | < 0.05 | 2.48 | 41.4 | 11.0 | 0.37 | 2.1 | 356 |
| 106822 | | 74.2 | 1.50 | 2.71 | 5.64 | 1.88 | 1.77 | 0.3 | 99 | 112 | 4570 | 11.7 | 1.1 | 97.5 | 7.1 | 9.0 | 3.0 | < 0.05 | 2.61 | 52.7 | 11.7 | 0.33 | 2.7 | 230 |
| 106823 | | 47.6 | 1.56 | 2.92 | 4.58 | 0.78 | 4.62 | 0.3 | 114 | 94.1 | 1890 | 7.54 | 2.5 | 65.9 | 4.2 | 6.2 | 1.8 | < 0.05 | 1.90 | 23.5 | 7.67 | 0.27 | 1.9 | 271 |
| 106824 | 5 | 56.8 | 1.76 | 3.21 | 6.00 | 2.13 | 3.73 | 0.4 | 146 | 57.4 | 1960 | 9.73 | 0.6 | 63.4 | 4.1 | 6.5 | 1.8 | < 0.05 | 2.97 | 28.8 | 7.88 | 0.22 | 1.6 | 297 |
| 106825 | | 64.9 | 1.33 | 3.09 | 4.96 | 2.26 | 3.16 | 1.1 | 167 | 80.9 | 6540 | 12.6 | < 0.1 | 68.7 | 6.4 | 10.6 | 2.8 | < 0.05 | 2.65 | 40.7 | 16.3 | 0.37 | 2.3 | 421 |
| 106826 | | 64.0 | 1.91 | 2.63 | 5.88 | 1.74 | 2.68 | 0.7 | 156 | 79.5 | 4200 | 10.5 | < 0.1 | 65.0 | 7.5 | 9.8 | 3.3 | < 0.05 | 1.70 | 38.6 | 15.3 | 0.32 | 2.7 | 237 |
| 106827 | 9 | 57.8 | 1.75 | 3.17 | 5.66 | 2.53 | 3.15 | 0.4 | 184 | 72.2 | 3060 | 9.95 | < 0.1 | 89.5 | 5.2 | 12.1 | 2.3 | < 0.05 | 3.51 | 41.1 | 9.71 | 0.17 | 1.9 | 213 |
| 106828 | | 32.0 | 0.68 | 2.40 | 3.05 | 0.81 | 3.87 | 0.4 | 125 | 48.1 | 3080 | 6.83 | < 0.1 | 47.4 | 3.5 | 4.1 | 1.5 | < 0.05 | 2.24 | 28.7 | 5.47 | 0.18 | 1.1 | 137 |
| 106829 | | 46.0 | 1.57 | 2.10 | 5.26 | 1.70 | 3.40 | 0.6 | 145 | 97.9 | 4160 | 10.6 | 0.6 | 66.4 | 6.6 | 6.5 | 2.8 | < 0.05 | 2.13 | 31.5 | 11.9 | 0.25 | 2.9 | 178 |
| 106830 | < 5 | 31.7 | 2.01 | 1.69 | 6.40 | 2.06 | 2.14 | 0.3 | 101 | 116 | 1810 | 5.92 | 3.5 | 66.2 | 2.3 | 2.3 | 0.9 | < 0.05 | 2.34 | 21.9 | 3.70 | 0.13 | 0.9 | 104 |
| 106831 | | 22.4 | 2.53 | 1.21 | 7.10 | 2.06 | 1.73 | 0.1 | 59 | 91.1 | 784 | 4.87 | 3.3 | 51.7 | 1.6 | 2.0 | 0.6 | < 0.05 | 1.78 | 17.6 | 1.67 | 0.10 | 0.4 | 63.7 |
| 106832 | | 58.6 | 1.91 | 2.23 | 6.05 | 2.02 | 2.83 | 0.5 | 128 | 92.2 | 3410 | 9.25 | 0.5 | 70.4 | 4.3 | 5.0 | 1.8 | < 0.05 | 2.54 | 33.5 | 7.22 | 0.18 | 1.6 | 226 |
| 106833 | < 5 | 89.2 | 1.19 | 2.42 | 4.89 | 0.69 | 3.12 | 0.4 | 89 | 116 | 2320 | 8.45 | 1.7 | 49.0 | 5.2 | 8.1 | 2.3 | < 0.05 | 1.62 | 20.2 | 9.69 | 0.16 | 1.9 | 199 |
| 106834 | | 32.4 | 1.23 | 1.84 | 4.41 | 1.27 | 3.04 | 0.9 | 114 | 89.1 | 9510 | 9.21 | < 0.1 | 72.3 | 4.6 | 3.7 | 2.0 | < 0.05 | 2.37 | 27.3 | 7.54 | 0.20 | 1.8 | 259 |
| 106835 | | 44.8 | 1.74 | 2.22 | 6.05 | 1.68 | 2.12 | 0.3 | 100 | 165 | 1380 | 7.42 | 0.1 | 102 | 2.8 | 5.1 | 1.1 | < 0.05 | 2.81 | 27.6 | 4.28 | 0.20 | 1.1 | 189 |
| 106836 | 5 | 56.3 | 1.54 | 1.97 | 4.88 | 1.74 | 3.62 | 1.2 | 124 | 85.1 | 5760 | 8.80 | < 0.1 | 73.3 | 8.1 | 8.3 | 3.5 | < 0.05 | 2.66 | 26.3 | 14.0 | 0.23 | 2.9 | 213 |
| 106837 | | 41.7 | 1.8 | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 106838 | | 42.1 | 1.20 | 1.63 | 4.10 | 1.13 | 4.19 | 0.6 | 125 | 75.7 | 3680 | 7.61 | < 0.1 | 50.4 | 9.7 | 8.7 | 4.3 | < 0.05 | 2.10 | 21.4 | 23.2 | 0.50 | 3.6 | 195 |
| 106839 | 8 | 55.4 | 1.88 | 2.24 | 5.71 | 1.53 | 2.35 | 0.4 | 123 | 153 | 2850 | 7.52 | 3.3 | 79.6 | 6.1 | 5.3 | 2.7 | < 0.05 | 2.13 | 24.3 | 14.9 | 0.38 | 2.4 | 234 |
| 106840 | | 48.4 | 1.70 | 2.09 | 5.55 | 1.57 | 2.74 | 1.1 | 123 | 122 | 5340 | 8.63 | 0.9 | 74.5 | 8.4 | 6.3 | 3.8 | < 0.05 | 2.32 | 27.5 | 22.3 | 0.49 | 3.5 | 338 |
| 106841 | | 53.6 | 2.31 | 1.75 | 4.15 | 0.79 | 2.26 | 0.2 | 141 | 133 | 1860 | 7.06 | 1.2 | 126 | 3.9 | 5.7 | 1.7 | < 0.05 | 1.22 | 28.1 | 7.13 | 0.22 | 1.5 | 130 |
| 106842 | < 5 | 66.6 | 2.15 | 1.81 | 6.31 | 1.54 | 2.02 | 0.3 | 129 | 194 | 2800 | 7.11 | 1.2 | 150 | 5.7 | 9.8 | 2.5 | < 0.05 | 2.11 | 29.9 | 12.8 | 0.26 | 2.1 | 168 |
| 106843 | | 64.2 | 2.18 | 2.45 | 5.98 | 1.39 | 2.40 | 0.2 | 141 | 362 | 2500 | 7.58 | 2.4 | 197 | 2.7 | 4.6 | 1.1 | < 0.05 | 2.47 | 36.7 | 5.18 | 0.16 | 0.9 | 168 |
| 106844 | | 43.5 | 2.29 | 2.25 | 6.39 | 2.11 | 2.81 | 0.4 | 125 | 212 | 3420 | 7.29 | 0.8 | 171 | 4.9 | 6.6 | 2.1 | < 0.05 | 2.40 | 33.1 | 11.8 | 0.26 | 1.8 | 196 |
| 106845 | < 5 | 69.7 | 0.43 | 8.72 | 4.77 | 0.45 | 5.14 | 0.5 | 95 | 118 | 4840 | 8.94 | < 0.1 | 102 | 3.3 | 6.4 | 1.5 | < 0.05 | 3.75 | 37.5 | 7.01 | 0.11 | 1.5 | 215 |
| 106846 | | 63.2 | 1.39 | 1.92 | 4.32 | 1.10 | 4.01 | 1.0 | 141 | 162 | > 10000 | 11.0 | 0.3 | 116 | 9.4 | 6.9 | 4.3 | < 0.05 | 2.07 | 33.7 | 30.3 | 0.45 | 4.2 | 186 |
| 106847 | | 14.9 | 1.72 | 0.69 | 5.36 | 1.66 | 1.04 | 0.1 | 64 | 65.1 | 432 | 3.67 | 1.9 | 22.7 | 1.2 | 1.4 | 0.5 | < 0.05 | 1.87 | 7.2 | 1.86 | 0.14 | 0.4 | 37.4 |
| 106848 | < 5 | 39.6 | 1.80 | 1.05 | 6.05 | 1.99 | 1.21 | 0.2 | 86 | 81.7 | 461 | 4.60 | 2.8 | 29.9 | 2.2 | 2.5 | 0.9 | < 0.05 | 1.83 | 8.2 | 4.84 | 0.18 | 0.9 | 60.6 |
| 106849 | | 23.2 | 2.14 | 0.83 | 6.06 | 1.75 | 1.62 | 0.1 | 61 | 53.9 | 418 | 3.46 | 2.4 | 24.7 | 1.8 | 2.1 | 0.7 | < 0.05 | 1.53 | 8.1 | 2.93 | 0.10 | 0.6 | 44.2 |
| 106850 | | 124 | 0.94 | 4.68 | 4.57 | 1.10 | 5.80 | 0.8 | 144 | 221 | 6750 | 12.4 | < 0.1 | 211 | 10.4 | 6.2 | 4.2 | < 0.05 | 2.26 | 42.8 | 14.3 | 0.24 | 3.4 | 301 |
| 106851 | < 5 | 60.5 | 2.84 | 2.22 | 5.75 | 0.81 | 1.32 | 0.3 | 79 | 161 | 1180 | 8.03 | 0.3 | 168 | 3.2 | 6.4 | 1.3 | < 0.05 | 2.16 | 41.2 | 3.78 | 0.10 | 0.7 | 93.9 |
| 106852 | | 49.5 | 1.93 | 1.84 | 4.53 | 0.76 | 2.01 | 0.2 | 133 | 229 | 2520 | 6.90 | 3.3 | 138 | 3.0 | 5.1 | 1.3 | < 0.05 | 2.26 | 32.3 | 5.43 | 0.20 | 1.2 | 119 |
| 106853 | | 44.5 | 1.97 | 1.78 | 5.31 | 1.48 | 2.73 | 0.5 | 117 | 86.4 | 3600 | 6.47 | < 0.1 | 98.8 | 4.9 | 6.9 | 2.2 | < 0.05 | 2.06 | 30.4 | 11.7 | 0.31 | 1.9 | 192 |
| 106854 | < 5 | 48.4 | 1.99 | 1.93 | 5.63 | 1.65 | 2.85 | 0.6 | 134 | 176 | 3490 | 7.44 | 0.6 | 134 | 4.7 | 6.5 | 2.0 | < 0.05 | 2.44 | 32.7 | 10.3 | 0.32 | 1.9 | 232 |
| 106855 | | 47.5 | 2.22 | 1.89 | 5.91 | 1.79 | 2.93 | 0.5 | 131 | 179 | 2890 | 7.42 | 0.9 | 133 | 5.0 | 8.0 | 2.2 | < 0.05 | 2.58 | 30.5 | 11.4 | 0.30 | 2.1 | 245 |
| 106856 | | 44.5 | 1.75 | 1.65 | 5.98 | 1.85 | 3.93 | 0.9 | 127 | 68.4 | 4080 | 8.49 | < 0.1 | 50.9 | 8.4 | 5.9 | 3.6 | < 0.05 | 1.99 | 20.3 | 21.6 | 0.44 | 2.9 | 180 |
| 106857 | < 5 | 45.2 | 2.10 | 1.44 | 6.26 | 1.95 | 2.69 | 0.3 | 133 | 57.1 | 1010 | 6.42 | < 0.1 | 52.4 | 8.5 | 4.3 | 3.4 | < 0.05 | 2.46 | 13.1 | 15.3 | 0.36 | 2.7 | 79.9 |
| 106858 | | 42.7 | 2.35 | 1.81 | 6.94 | 1.98 | 1.99 | 0.4 | 144 | 125 | 2450 | 8.34 | 0.4 | 89.6 | 3.5 | 3.9 | 1.5 | < 0.05 | 2.44 | 31.7 | 6.39 | 0.19 | 1.3 | 165 |
| 106859 | | 45.2 | 2.31 | 1.74 | 6.89 | 1.68 | 1.40 | 0.3 | 81 | 104 | 1050 | 7.96 | 0.3 | 86.8 | 2.1 | 3.5 | 0.9 | < 0.05 | 2.71 | 31.3 | 2.93 | 0.11 | 0.5 | 160 |
| 106860 | < 5 | 37.9 | 2.14 | 1.80 | 6.46 | 1.82 | 1.84 | 0.2 | 130 | 124 | 1630 | 7.18 | 0.8 | 81.9 | 4.1 | 3.6 | 1.8 | < 0.05 | 2.99 | 25.4 | 5.78 | 0.12 | 1.1 | 124 |
| 106861 | | 97.6 | 1.42 | 3.48 | 6.49 | 2.75 | 2.27 | 0.4 | 198 | 285 | 3260 | 12.0 | < 0.1 | 257 | 3.8 | 8.8 | 1.6 | < 0.05 | 2.07 | 51.7 | 6.80 | 0.13 | 1.3 | 303 |
| 106862 | | 88.5 | 1.25 | 2.73 | 5.36 | 1.27 | 3.75 | 0.6 | 143 | 210 | 5050 | 11.4 | 0.7 | 112 | 6.8 | 7.6 | 2.9 | < 0.05 | 1.67 | 40.6 | 12.5 | 0.23 | 2.4 | 258 |
| 106863 | < 5 | 45.0 | 1.49 | 2.35 | 6.21 | 1.45 | 1.84 | 0.4 | 87 | 94.0 | 2230 | 7.43 | < 0.1 | 48.9 | 2.9 | 3.2 | 1.2 | < 0.05 | 2.20 | 25.2 | 5.30 | 0.20 | 0.9 | 208 |
| 106864 | | 42.4 | 1.18 | 1.88 | 4.43 | 1.80 | 3.12 | 0.3 | 122 | 62.4 | 4230 | 7.34 | < 0.1 | 75.5 | 3.8 | 9.5 | 1.6 | < 0.05 | 2.00 | 32.2 | 6.40 | 0.12 | 1.2 | 114 |
| 106865 | | 31.6 | 2.06 | 1.54 | 6.60 | 1.77 | 1.81 | 0.1 | 90 | 90.7 | 1180 | 5.47 | 1.9 | 62.5 | 1.9 | 3.1 | 0.8 | < 0.05 | 1.84 | 18.9 | 2.48 | 0.11 | 0.5 | 67.7 |
| 106866 | < 5 | 66.3 | 1.38 | 1.40 | 5.18 | 1.39 | 3.12 | 0.7 | 129 | 80.0 | 6670 | 12.9 | < 0.1 | 52.3 | 8.8 | 6.1 | 4.0 | < 0.05 | 1.44 | 27.9 | 21.2 | 0.36 | 3.3 | 148 |
| 106867 | | 51.2 | 0.33 | 4.05 | 4.84 | 1.78 | 2.33 | 2.1 | 273 | 60.5 | > 10000 | 17.1 | 0.5 | 153 | 8.4 | 7.1 | 3.5 | < 0.05 | 4.29 | 82.2 | 13.3 | 0.59 | 3.7 | 530 |
| 106868 | | 75.8 | 2.11 | 2.84 | 6.49 | 2.01 | 1.87 | 0.2 | 168 | 150 | 1630 | 10.9 | 2.1 | 92.7 | 4.4 | 9.4 | 1.9 | < 0.05 | 3.38 | 39.1 | 8.20 | 0.18 | 2.4 | 131 |
| 106869 | < 5 | 63.3 | 1.83 | 2.99 | 6.09 | 2.62 | 3.72 | 0.5 | 156 | 117 | 3870 | 11.5 | 0.9 | 67.6 | 5.8 | 9.0 | 2.5 | < 0.05 | 2.75 | 33.5 | 12.6 | 0.63 | 2.7 | 346 |
| 106870 | | 52.9 | 1.80 | 2.27 | 5.71 | 2.43 | 2.92 | 0.5 | 142 | 102 | 2750 | 9.36 | 0.4 | 60.9 | 5.4 | 7.6 | 2.4 | < 0.05 | 2.58 | 28.9 | 10.3 | 0.29 | 2.6 | 307 |
| 106871 | | 50.1 | 1.75 | 3.25 | 4.74 | 0.86 | 5.35 | 0.4 | 132 | 96.1 | 2400 | 8.02 | 2.7 | 61.4 | 4.1 | 6.9 | 1.8 | < 0.05 | 2.11 | 28.3 | 7.30 | 0.21 | 1.7 | 244 |
| 106872 | 15 | 75.2 | 1.95 | 2.85 | 6.08 | 1.70 | 2.30 | 0.2 | 152 | 104 | 2160 | 9.32 | 1.3 | 87.9 | 4.6 | 7.6 | 1.9 | < 0.05 | 2.72 | 38.7 | 8.29 | 0.23 | 1.8 | 227 |
| 106873 | | 55.4 | 2.03 | 2.42 | 5.93 | 2.26 | 2.86 | 0.3 | 131 | 190 | 3420 | 9.67 | 1.4 | 124 | 5.6 | 9.3 | 2.4 | < 0.05 | 2.13 | 37.9 | 9.55 | 0.38 | 2.5 | 261 |
| 106874 | | 37.7 | 2.88 | 2.25 | 6.35 | 1.53 | 2.49 | 0.2 | 56 | 80.5 | 2150 | 8.26 | 0.2 | 77.0 | 2.4 | 8.0 | 1.0 | 0.06 | 2.64 | 39.7 | 3.58 | 0.16 | 0.9 | 169 |
| 106875 | < 5 | 40.7 | > 3.00 | 1.52 | 7.96 | 1.16 | 0.48 | < 0.1 | 164 | 68.8 | 761 | 11.2 | 2.9 | 66.1 | 1.1 | 5.6 | 0.4 | < 0.05 | 2.85 | 43.9 | 1.68 | 0.04 | 0.4 | 116 |
| 106876 | | 50.6 | > 3.00 | 1.71 | 7.95 | 1.88 | 1.10 | 0.1 | 146 | 113 | 1770 | 12.6 | 1.6 | 78.0 | 2.9 | 9.9 | 1.2 | < 0.05 | 3.36 | 46.7 | 4.10 | 0.06 | 0.9 | 210 |
| 106877 | | 46.4 | > 3.00 | 2.60 | 6.59 | 1.22 | 2.28 | < 0.1 | 120 | 94.6 | 1630 | 12.1 | 1.3 | 87.2 | 2.6 | 7.5 | 1.0 | < 0.05 | 3.10 | 53.3 | 2.91 | 0.04 | 0.9 | 128 |
| 106878 | < 5 | 21.3 | > 3.00 | 1.47 | 4.93 | 0.35 | 1.32 | 0.2 | 112 | 65.6 | 5350 | 11.5 | 1.1 | 60.2 | 1.9 | 4.8 | 0.8 | < 0.05 | 1.38 | 34.3 | 2.86 | 0.09 | 1.1 | 164 |
| 106879 | | 44.8 | > 3.00 | 1.98 | 6.39 | 0.61 | 0.87 | 0.1 | 107 | 72.7 | 855 | 10.9 | 1.8 | 73.2 | 1.6 | 6.0 | 0.6 | < 0.05 | 2.76 | 47.9 | 2.97 | 0.07 | 0.6 | 147 |
| 106880 | | 43.6 | > 3.00 | 1.66 | 6.61 | 1.40 | 0.91 | 0.1 | 70 | 66.8 | 764 | 8.87 | 2.0 | 61.4 | 1.5 | 5.4 | 0.6 | < 0.05 | 2.36 | 40.9 | 1.66 | 0.05 | 0.4 | 126 |
| 106881 | < 5 | 25.0 | > 3.00 | 1.13 | 3.33 | 0.61 | 1.14 | 0.5 | 406 | 87.1 | 2550 | 11.1 | 2.6 | 42.2 | 2.2 | 8.8 | 0.9 | < 0.05 | 1.08 | 39.0 | 6.33 | 0.77 | 1.1 | 196 |
| 106882 | | 21.6 | 2.38 | 1.88 | 5.20 | 1.47 | 4.68 | 0.8 | 265 | 87.1 | 2500 | 10.2 | < 0.1 | 83.4 | 8.9 | 15.9 | 3.5 | < 0.05 | 1.78 | 33.6 | 12.2 | 0.14 | 2.7 | 288 |
| 106883 | | 23.8 | 1.89 | 2.74 | 5.28 | 1.00 | 5.40 | 0.5 | 179 | 91.6 | 2480 | 9.18 | < 0.1 | 128 | 4.5 | 8.0 | 1.9 | < 0.05 | 1.66 | 42.5 | 7.14 | 0.15 | 1.1 | 225 |
| 106884 | < 5 | 47.8 | 1.05 | 5.64 | 3.67 | 0.92 | 11.6 | 0.9 | 225 | 371 | 5620 | 9.39 | < 0.1 | 300 | 10.2 | 11.7 | 4.5 | < 0.05 | 2.20 | 58.7 | 20.4 | 0.35 | 4.3 | 190 |
| 106885 | | 34.5 | 2.94 | 1.98 | 6.22 | 1.61 | 3.38 | 0.4 | 176 | 201 | 3600 | 9.66 | 0.1 | 191 | 5.0 | 10.5 | 2.0 | < 0.05 | 2.05 | 43.8 | 8.84 | 0.14 | 1.6 | 175 |
| 106886 | | 31.5 | > 3.00 | 2.27 | 7.74 | 2.01 | 1.76 | 0.2 | 103 | 217 | 1730 | 8.79 | 0.3 | 209 | 3.2 | 5.0 | 1.2 | < 0.05 | 2.15 | 45.4 | 3.64 | 0.06 | 0.8 | 135 |
| 106887 | < 5 | 36.2 | > 3.00 | 1.94 | 6.24 | 1.38 | 1.40 | 0.2 | 120 | 296 | 1690 | 9.26 | 0.2 | 231 | 3.8 | 8.5 | 1.5 | < 0.05 | 2.54 | 46.4 | 5.16 | 0.13 | 1.3 | 142 |
| 106888 | | 32.0 | 2.91 | 2.26 | 6.38 | 1.84 | 3.24 | 0.2 | 124 | 185 | 1480 | 7.98 | 0.3 | 167 | 2.8 | 5.4 | 1.1 | < 0.05 | 2.19 | 41.8 | 3.61 | 0.12 | 1.0 | 120 |

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| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|-----------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 106890 | < 5 | 43.5 | 1.04 | 4.44 | 4.01 | 0.67 | 3.63 | 0.1 | 185 | 1000 | 1800 | 11.4 | 0.1 | 1090 | 6.5 | 16.8 | 2.3 | < 0.05 | 1.16 | 112 | 4.09 | 0.14 | 1.9 | 329 |
| 106891 | | 27.6 | > 3.00 | 1.34 | 6.40 | 1.09 | 1.38 | 0.2 | 128 | 151 | 1120 | 8.03 | 1.5 | 101 | 2.0 | 4.3 | 0.8 | < 0.05 | 1.76 | 28.6 | 3.89 | 0.10 | 0.8 | 92.3 |
| 106892 | | 15.7 | > 3.00 | 3.11 | 4.34 | 0.27 | 1.06 | 0.2 | 196 | 1150 | 1600 | 7.66 | 3.4 | 573 | 1.6 | 3.9 | 0.6 | < 0.05 | 1.95 | 66.8 | 1.70 | 0.05 | 0.7 | 72.1 |
| 106893 | < 5 | 19.6 | 2.10 | 2.01 | 6.07 | 1.56 | 2.42 | < 0.1 | 124 | 88.9 | 880 | 6.60 | < 0.1 | 77.2 | 2.5 | 2.6 | 1.0 | < 0.05 | 2.30 | 19.9 | 3.53 | 0.07 | 0.8 | 131 |
| 106894 | | 15.5 | 1.16 | 2.43 | 3.04 | 0.68 | 4.40 | 1.7 | 194 | 357 | > 10000 | 17.3 | 0.4 | 232 | 14.8 | 4.4 | 6.1 | < 0.05 | 2.66 | 57.0 | 25.4 | 0.14 | 4.4 | 376 |
| 106895 | | 34.3 | > 3.00 | 1.62 | 6.88 | 1.55 | 1.62 | 0.3 | 105 | 152 | 1630 | 7.04 | 0.4 | 122 | 2.9 | 4.5 | 1.2 | < 0.05 | 2.05 | 32.0 | 4.62 | 0.13 | 1.1 | 92.2 |
| 106896 | < 5 | 208 | 1.99 | 5.01 | 3.94 | 2.27 | 2.04 | 0.7 | 171 | 882 | 4980 | 11.5 | 1.0 | 713 | 6.1 | 27.7 | 2.9 | < 0.05 | 5.77 | 79.2 | 19.0 | 0.28 | 2.9 | 282 |
| 106897 | | 26.9 | 2.47 | 1.44 | 6.67 | 1.88 | 2.31 | 0.5 | 69 | 108 | 748 | 4.92 | 0.5 | 63.5 | 1.7 | 2.2 | 0.7 | < 0.05 | 2.58 | 15.6 | 1.75 | 0.07 | 0.7 | 76.6 |
| 106898 | | 39.0 | > 3.00 | 3.12 | 7.01 | 0.64 | 1.13 | 0.2 | 51 | 197 | 2270 | 8.86 | 0.7 | 199 | 4.8 | 10.9 | 2.1 | < 0.05 | 2.29 | 50.8 | 7.68 | 0.12 | 1.6 | 157 |
| 106899 | < 5 | 57.8 | > 3.00 | 2.44 | 6.33 | 0.96 | 1.12 | 0.1 | 80 | 430 | 969 | 8.63 | 1.8 | 304 | 3.0 | 8.9 | 1.3 | < 0.05 | 2.45 | 41.9 | 5.65 | 0.12 | 1.0 | 115 |
| 106900 | | 64.8 | 2.85 | 3.24 | 5.39 | 1.49 | 1.63 | 0.2 | 89 | 548 | 1560 | 8.95 | 1.0 | 417 | 3.2 | 13.8 | 1.3 | < 0.05 | 3.98 | 56.7 | 4.86 | 0.11 | 1.1 | 157 |
| 92014 | | 64.1 | > 3.00 | 2.47 | 4.69 | 0.84 | 0.89 | 0.1 | 180 | 557 | 1160 | 9.18 | 3.4 | 342 | 1.9 | 8.6 | 0.8 | < 0.05 | 3.34 | 56.2 | 2.94 | 0.13 | 0.7 | 116 |
| 92015 | < 5 | 37.7 | > 3.00 | 2.02 | 6.78 | 1.32 | 0.97 | 0.2 | 63 | 299 | 1340 | 8.68 | 0.6 | 248 | 2.3 | 8.4 | 0.9 | < 0.05 | 3.32 | 49.5 | 2.82 | 0.07 | 0.5 | 111 |
| 92016 | | 67.5 | 2.86 | 2.54 | 6.51 | 2.16 | 0.78 | 0.6 | 68 | 789 | 2320 | 13.4 | 0.8 | 577 | 3.8 | 10.8 | 1.6 | < 0.05 | 4.08 | 83.8 | 10.3 | 0.22 | 1.3 | 320 |
| 92017 | | 50.7 | > 3.00 | 3.48 | 6.31 | 1.81 | 1.36 | 0.1 | 75 | 386 | 941 | 8.40 | 0.8 | 321 | 1.7 | 10.4 | 0.6 | < 0.05 | 3.59 | 56.2 | 1.95 | 0.13 | 0.4 | 126 |
| 92018 | < 5 | 32.5 | 2.44 | 2.59 | 5.50 | 1.25 | 2.13 | 0.2 | 85 | 466 | 914 | 7.95 | 0.7 | 278 | 2.1 | 6.1 | 0.8 | < 0.05 | 4.64 | 47.8 | 2.33 | 0.09 | 0.7 | 147 |
| 92019 | | 33.6 | > 3.00 | 2.07 | 7.37 | 1.54 | 1.10 | < 0.1 | 74 | 274 | 1370 | 9.08 | 1.7 | 209 | 2.8 | 6.1 | 1.1 | < 0.05 | 3.16 | 47.4 | 3.84 | 0.10 | 0.8 | 109 |
| 92020 | | 29.5 | > 3.00 | 1.92 | 7.34 | 1.19 | 1.05 | < 0.1 | 65 | 249 | 1100 | 9.64 | 1.7 | 168 | 2.3 | 7.0 | 0.9 | < 0.05 | 3.60 | 47.3 | 2.91 | 0.05 | 0.6 | 106 |
| 92021 | < 5 | 30.1 | > 3.00 | 2.35 | 7.04 | 1.42 | 1.20 | 0.1 | 75 | 338 | 1550 | 9.26 | 2.3 | 242 | 2.8 | 6.2 | 1.1 | < 0.05 | 3.82 | 51.2 | 3.14 | 0.06 | 0.6 | 98.3 |
| 92022 | | 32.3 | > 3.00 | 1.72 | 7.19 | 1.43 | 1.23 | < 0.1 | 66 | 183 | 827 | 7.89 | 2.7 | 133 | 1.9 | 4.1 | 0.7 | < 0.05 | 2.82 | 40.5 | 2.37 | 0.06 | 0.5 | 77.3 |
| 92023 | | 24.2 | > 3.00 | 1.55 | 4.48 | 0.96 | 0.94 | < 0.1 | 120 | 257 | 932 | 7.50 | 3.5 | 146 | 1.1 | 4.6 | 0.4 | < 0.05 | 2.06 | 40.2 | 1.32 | 0.05 | 0.4 | 78.2 |
| 92024 | < 5 | 28.6 | > 3.00 | 2.00 | 6.93 | 1.41 | 0.75 | < 0.1 | 100 | 416 | 878 | 8.96 | 2.3 | 244 | 1.5 | 5.5 | 0.6 | < 0.05 | 2.33 | 49.0 | 1.98 | 0.04 | 0.3 | 97.1 |
| 92025 | | 25.1 | 2.17 | 2.10 | 5.42 | 1.20 | 1.79 | 0.2 | 67 | 231 | 2110 | 7.37 | 0.2 | 140 | 2.6 | 4.0 | 1.0 | < 0.05 | 3.05 | 34.5 | 2.55 | 0.13 | 0.9 | 140 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107527 | 15.3 | 4.0 | 33.4 | 13.7 | 233 | 128 | 20.7 | 16.3 | < 0.1 | 1 | 1.8 | < 0.1 | 307 | 41.4 | 81.4 | 9.9 | 38.1 | 7.0 | 5.4 | 0.6 | 3.0 | 66.3 | 0.4 | 0.2 |
| 107528 | 13.6 | 5.3 | 73.6 | 31.5 | 383 | 160 | 87.4 | 6.9 | < 0.1 | 2 | 0.5 | < 0.1 | 643 | 193 | 339 | 38.8 | 133 | 18.8 | 14.1 | 1.5 | 7.2 | 42.9 | 0.4 | 0.4 |
| 107529 | 18.1 | 1.5 | 45.5 | 8.0 | 211 | 190 | 14.0 | 0.7 | < 0.1 | < 1 | 0.2 | < 0.1 | 551 | 19.3 | 42.3 | 5.0 | 18.3 | 3.1 | 2.4 | 0.3 | 1.6 | 21.4 | 0.7 | 0.1 |
| 107530 | 15.5 | 2.7 | 64.9 | 21.5 | 297 | 191 | 61.6 | 3.4 | < 0.1 | 1 | 0.7 | < 0.1 | 635 | 90.2 | 172 | 18.7 | 64.8 | 10.0 | 7.8 | 0.9 | 4.6 | 37.9 | 0.3 | 0.3 |
| 107531 | 14.0 | 5.3 | 23.1 | 42.3 | 553 | 196 | > 500 | 7.9 | 0.1 | 4 | 35.7 | 0.7 | 663 | 274 | 621 | 76.2 | 273 | 40.1 | 27.6 | 2.8 | 13.3 | 27.4 | 0.8 | 0.6 |
| 107532 | 13.7 | 3.5 | 61.2 | 49.0 | 436 | 182 | 335 | 19.1 | < 0.1 | 1 | 1.4 | 0.4 | 723 | 254 | 527 | 64.0 | 232 | 33.2 | 23.7 | 2.5 | 12.4 | 33.7 | 1.0 | 0.6 |
| 107533 | 15.2 | 3.2 | 54.4 | 40.9 | 347 | 190 | 245 | 10.7 | 0.1 | 3 | 1.2 | 0.3 | 669 | 240 | 467 | 53.9 | 192 | 29.2 | 20.9 | 2.2 | 10.4 | 27.7 | 0.6 | 0.5 |
| 107534 | 16.0 | 2.6 | 87.9 | 35.1 | 422 | 195 | 139 | 10.6 | < 0.1 | 2 | 0.5 | 0.2 | 728 | 166 | 320 | 39.4 | 144 | 22.7 | 16.2 | 1.7 | 8.0 | 38.2 | 0.5 | 0.4 |
| 107535 | 14.4 | 2.4 | 71.6 | 25.5 | 355 | 195 | 111 | 6.0 | < 0.1 | 2 | 2.0 | < 0.1 | 705 | 102 | 196 | 23.4 | 85.8 | 13.9 | 10.1 | 1.1 | 5.6 | 34.5 | 0.3 | 0.3 |
| 107536 | 13.5 | 2.2 | 62.3 | 46.7 | 403 | 180 | 283 | 7.4 | 0.1 | 3 | 5.0 | 0.3 | 681 | 279 | 545 | 65.6 | 238 | 36.8 | 25.8 | 2.6 | 11.9 | 35.2 | 0.7 | 0.5 |
| 107537 | 13.7 | 3.8 | 68.9 | 47.6 | 479 | 190 | 213 | 10.9 | < 0.1 | 3 | 24.6 | 0.2 | 641 | 197 | 369 | 44.6 | 159 | 25.1 | 19.8 | 2.2 | 11.0 | 69.0 | 0.4 | 0.6 |
| 107538 | 15.3 | 2.4 | 64.9 | 28.0 | 318 | 197 | 98.2 | 5.0 | < 0.1 | 2 | 0.8 | 0.1 | 695 | 116 | 227 | 26.9 | 97.0 | 15.6 | 11.6 | 1.3 | 6.4 | 33.2 | 0.4 | 0.3 |
| 107539 | 16.1 | 3.4 | 35.4 | 36.6 | 326 | 225 | 458 | 13.2 | 0.1 | 3 | 2.5 | 0.5 | 532 | 358 | 707 | 77.7 | 267 | 36.9 | 25.3 | 2.4 | 10.5 | 18.6 | 0.9 | 0.4 |
| 107540 | 17.0 | 2.2 | 45.9 | 42.2 | 262 | 219 | 89.2 | 8.7 | < 0.1 | 2 | 0.9 | < 0.1 | 604 | 161 | 302 | 38.2 | 140 | 22.9 | 18.8 | 2.1 | 10.0 | 74.1 | 0.9 | 0.5 |
| 107541 | 17.0 | 3.9 | 29.0 | 22.8 | 224 | 207 | 101 | 4.8 | < 0.1 | 2 | 14.9 | 0.3 | 533 | 97.0 | 225 | 24.6 | 89.4 | 14.3 | 10.4 | 1.2 | 5.9 | 38.5 | 0.3 | 0.3 |
| 107542 | 14.5 | 3.1 | 51.1 | 21.8 | 272 | 222 | 51.0 | 3.5 | < 0.1 | 2 | 1.0 | < 0.1 | 625 | 70.4 | 148 | 17.8 | 66.4 | 11.6 | 9.2 | 1.0 | 5.3 | 27.4 | 0.2 | 0.3 |
| 107543 | 15.6 | 1.3 | 77.0 | 18.2 | 275 | 176 | 40.2 | 16.9 | < 0.1 | 2 | 1.6 | < 0.1 | 666 | 62.8 | 126 | 14.6 | 54.0 | 9.5 | 7.5 | 0.8 | 4.2 | 27.7 | 0.4 | 0.3 |
| 107544 | 15.7 | 2.3 | 79.2 | 18.9 | 313 | 200 | 29.1 | 8.0 | < 0.1 | 2 | 1.8 | < 0.1 | 725 | 56.0 | 113 | 12.3 | 44.3 | 7.8 | 6.4 | 0.8 | 4.0 | 43.1 | 0.3 | 0.2 |
| 107545 | 17.1 | 2.4 | 64.9 | 45.7 | 202 | 240 | 103 | 23.3 | < 0.1 | 2 | 1.3 | 0.1 | 763 | 239 | 382 | 49.4 | 175 | 29.3 | 23.8 | 2.5 | 12.2 | 106 | 1.2 | 0.6 |
| 107546 | 16.4 | 1.8 | 83.7 | 19.4 | 304 | 235 | 35.6 | 11.4 | < 0.1 | 1 | 0.8 | < 0.1 | 759 | 61.3 | 121 | 13.9 | 49.9 | 8.6 | 6.8 | 0.8 | 4.2 | 45.8 | 0.8 | 0.2 |
| 107547 | 16.2 | 0.8 | 71.7 | 12.2 | 315 | 234 | 15.5 | 6.6 | < 0.1 | 1 | 2.8 | < 0.1 | 730 | 35.1 | 70.3 | 7.9 | 28.9 | 5.0 | 3.9 | 0.5 | 2.4 | 16.4 | 0.9 | 0.2 |
| 107548 | 16.0 | 0.7 | 68.0 | 10.4 | 297 | 216 | 7.6 | 2.1 | < 0.1 | < 1 | 0.7 | < 0.1 | 683 | 29.3 | 59.5 | 6.7 | 24.8 | 4.3 | 3.4 | 0.4 | 2.1 | 10.5 | 0.7 | 0.2 |
| 107549 | 16.2 | 0.9 | 66.7 | 19.7 | 256 | 207 | 98.9 | 7.6 | < 0.1 | 2 | 1.0 | < 0.1 | 640 | 102 | 207 | 22.3 | 86.3 | 17.1 | 11.5 | 1.1 | 4.9 | 68.4 | 1.0 | 0.3 |
| 107550 | 15.9 | 1.1 | 68.6 | 22.8 | 337 | 231 | 44.5 | 3.2 | < 0.1 | 1 | 6.8 | < 0.1 | 695 | 65.6 | 120 | 14.3 | 52.9 | 10.7 | 8.6 | 1.0 | 4.8 | 67.7 | 0.6 | 0.3 |
| 107551 | 18.2 | 0.3 | 47.7 | 25.9 | 234 | 258 | 140 | 5.3 | < 0.1 | 2 | 4.6 | < 0.1 | 795 | 199 | 366 | 40.3 | 140 | 22.8 | 16.1 | 1.6 | 6.8 | 33.2 | 1.2 | 0.4 |
| 107552 | 12.9 | 1.0 | 6.0 | 102 | 269 | 373 | 294 | 21.4 | 0.2 | 4 | 0.9 | 0.4 | 561 | 778 | 1520 | 174 | 592 | 83.5 | 63.7 | 6.6 | 30.6 | 66.3 | 1.5 | 1.3 |
| 107553 | 16.4 | < 0.1 | 16.3 | 15.5 | 140 | 187 | 27.9 | 5.3 | < 0.1 | < 1 | 4.0 | < 0.1 | 452 | 34.0 | 72.7 | 8.6 | 31.9 | 5.0 | 4.0 | 0.5 | 3.1 | 33.2 | 1.0 | 0.2 |
| 107554 | 19.1 | < 0.1 | 13.1 | 15.2 | 136 | 138 | 33.5 | 1.0 | < 0.1 | < 1 | 0.6 | < 0.1 | 364 | 40.6 | 84.8 | 10.9 | 42.5 | 7.8 | 6.7 | 0.8 | 3.8 | 55.3 | 0.8 | 0.2 |
| 107555 | 19.4 | < 0.1 | 37.1 | 16.3 | 47.0 | 180 | 31.0 | 0.3 | < 0.1 | < 1 | 0.1 | < 0.1 | 324 | 54.1 | 113 | 13.6 | 51.8 | 9.3 | 7.1 | 0.8 | 3.9 | 73.3 | 0.8 | 0.2 |
| 107556 | 15.9 | 0.2 | 48.8 | 13.4 | 254 | 228 | 19.1 | 0.5 | < 0.1 | < 1 | 0.3 | < 0.1 | 601 | 39.3 | 83.4 | 9.2 | 34.1 | 6.0 | 5.0 | 0.6 | 3.0 | 32.0 | 0.8 | 0.2 |
| 104576 | 1.7 | 26.4 | 7.7 | 298 | > 1000 | 83 | 115 | 52.1 | 1.0 | 4 | 2.2 | 0.3 | 218 | 6020 | > 10000 | 869 | 2240 | > 100 | 236 | 16.7 | 64.7 | 34.6 | 5.3 | 3.2 |
| 104577 | 5.0 | 36.3 | 14.3 | 545 | > 1000 | 41 | 16.5 | 211 | 2.9 | 5 | 5.8 | 0.7 | 292 | > 10000 | > 10000 | 1710 | 4440 | > 100 | 478 | 35.5 | 137 | 27.0 | 10.4 | 5.9 |
| 107557 | 16.1 | 1.5 | 62.5 | 25.7 | 261 | 250 | 87.5 | 9.4 | < 0.1 | 2 | 0.6 | 0.2 | 659 | 137 | 260 | 29.2 | 106 | 19.0 | 14.0 | 1.4 | 6.6 | 43.0 | 0.5 | 0.3 |
| 107558 | 20.7 | 0.8 | 88.2 | 16.8 | 187 | 126 | 15.5 | 1.8 | < 0.1 | < 1 | 0.3 | < 0.1 | 736 | 126 | 252 | 32.1 | 137 | 28.6 | 16.2 | 1.3 | 5.0 | 22.9 | 0.7 | 0.2 |
| 107559 | 18.3 | 1.5 | 41.3 | 3.7 | 163 | 228 | 44.7 | 9.1 | < 0.1 | 2 | 1.0 | < 0.1 | 648 | 17.9 | 39.1 | 4.6 | 16.8 | 2.9 | 2.0 | 0.2 | 1.0 | 10.4 | 0.3 | < 0.1 |
| 107560 | 16.2 | 4.7 | 76.0 | 35.2 | 252 | 225 | 81.7 | 27.2 | < 0.1 | 2 | 2.5 | < 0.1 | 849 | 193 | 351 | 41.5 | 146 | 22.9 | 17.6 | 1.8 | 8.6 | 110 | 0.8 | 0.4 |
| 107561 | 16.1 | 2.0 | 64.6 | 22.2 | 286 | 245 | 56.9 | 24.5 | < 0.1 | 2 | 8.3 | < 0.1 | 761 | 87.2 | 159 | 19.2 | 69.1 | 12.0 | 9.2 | 1.0 | 5.2 | 38.4 | 0.5 | 0.3 |
| 107562 | 16.9 | 6.3 | 81.2 | 34.1 | 163 | 174 | 116 | 52.6 | 0.2 | 5 | 0.8 | 0.1 | 542 | 530 | 1050 | 122 | 428 | 65.1 | 38.4 | 2.8 | 10.4 | 40.9 | 1.2 | 0.4 |
| 107563 | 15.6 | 3.3 | 67.3 | 32.6 | 291 | 199 | 56.0 | 7.8 | < 0.1 | 2 | 4.3 | < 0.1 | 655 | 120 | 242 | 30.1 | 112 | 19.1 | 14.8 | 1.6 | 7.8 | 57.0 | 0.4 | 0.4 |
| 107564 | 15.8 | 2.1 | 53.6 | 21.9 | 264 | 178 | 57.7 | 4.4 | < 0.1 | 1 | 9.2 | < 0.1 | 594 | 85.7 | 163 | 19.1 | 69.6 | 11.4 | 9.0 | 1.0 | 5.2 | 37.5 | 0.5 | 0.3 |
| 107565 | 15.6 | 1.8 | 54.1 | 23.2 | 284 | 207 | 112 | 11.6 | < 0.1 | 2 | 3.6 | < 0.1 | 544 | 106 | 219 | 26.1 | 96.1 | 15.2 | 11.6 | 1.2 | 5.8 | 18.8 | 0.6 | 0.3 |
| 107566 | 15.7 | 1.8 | 53.6 | 28.6 | 292 | 197 | 132 | 8.1 | < 0.1 | 2 | 6.0 | 0.1 | 571 | 145 | 297 | 34.5 | 126 | 19.3 | 14.2 | 1.5 | 7.1 | 21.5 | 0.6 | 0.3 |
| 107567 | 16.3 | 2.3 | 54.1 | 36.2 | 273 | 200 | 110 | 9.2 | < 0.1 | 2 | 5.1 | < 0.1 | 604 | 197 | 364 | 45.1 | 163 | 24.8 | 18.1 | 1.9 | 9.1 | 42.3 | 0.7 | 0.4 |
| 107568 | 15.3 | 1.7 | 33.5 | 10.2 | 257 | 205 | 44.0 | 2.4 | < 0.1 | 1 | 6.9 | < 0.1 | 636 | 19.6 | 47.5 | 6.0 | 23.1 | 4.4 | 3.6 | 0.5 | 2.6 | 23.0 | 0.2 | 0.2 |
| 107569 | 15.3 | 2.2 | 59.5 | 15.9 | 328 | 227 | 127 | 4.3 | < 0.1 | < 1 | 2.8 | 0.2 | 666 | 43.1 | 92.5 | 10.9 | 40.7 | 6.9 | 5.4 | 0.7 | 3.4 | 15.0 | 0.3 | 0.2 |
| 107570 | 13.4 | 4.1 | 62.3 | 63.4 | 403 | 129 | 399 | 35.3 | 0.2 | 3 | 1.5 | 0.4 | 775 | 420 | 843 | 102 | 372 | 55.1 | 38.1 | 3.7 | 17.6 | 50.5 | 1.0 | 0.7 |
| 107571 | 14.2 | 2.8 | 56.1 | 59.4 | 389 | 206 | 255 | 11.9 | 0.1 | 1 | 0.9 | 0.6 | 647 | 312 | 583 | 67.3 | 233 | 35.6 | 26.5 | 2.9 | 14.2 | 29.3 | 0.7 | 0.7 |
| 107572 | 13.3 | 14.0 | 40.8 | 145 | 492 | 136 | 366 | 36.3 | 0.3 | 7 | 1.9 | 0.4 | 595 | 652 | 1310 | 165 | 602 | 91.4 | 69.3 | 8.0 | 39.1 | 22.7 | 1.5 | 1.7 |
| 107573 | 15.0 | 3.7 | 67.4 | 65.7 | 471 | 170 | > 500 | 24.5 | 0.1 | 2 | 6.4 | 0.5 | 657 | 339 | 663 | 76.4 | 264 | 39.7 | 30.2 | 3.4 | 16.7 | 32.4 | 0.7 | 0.8 |
| 107574 | 14.9 | 3.6 | 85.8 | 55.4 | 616 | 154 | 278 | 14.6 | < 0.1 | 2 | 1.2 | 0.2 | 760 | 281 | 570 | 67.7 | 237 | 35.2 | 25.8 | 2.7 | 13.0 | 28.4 | 0.7 | 0.6 |
| 107575 | 15.2 | 1.8 | 75.4 | 85.7 | 373 | 160 | 227 | 14.1 | 0.2 | 6 | 0.6 | 0.2 | 670 | 963 | 1720 | 188 | 645 | 96.5 | 64.4 | 5.9 | 24.7 | 19.3 | 1.5 | 0.8 |
| 107576 | 16.3 | 1.8 | 72.7 | 16.9 | 336 | 200 | 67.5 | 4.2 | < 0.1 | 1 | 4.4 | < 0.1 | 664 | 62.9 | 153 | 14.6 | 52.5 | 8.7 | 6.8 | 0.8 | 3.8 | 17.4 | 0.3 | 0.2 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107577 | 15.8 | 2.0 | 80.4 | 38.3 | 330 | 188 | 153 | 8.8 | < 0.1 | 4 | 6.9 | 0.6 | 676 | 487 | 970 | 108 | 359 | 50.0 | 32.4 | 2.8 | 10.9 | 6.5 | 1.3 | 0.4 |
| 107578 | 9.4 | 5.4 | 56.1 | 97.3 | > 1000 | 188 | > 500 | 139 | 0.1 | 4 | 0.7 | 1.4 | 1060 | 559 | 1230 | 145 | 516 | 73.4 | 53.8 | 5.5 | 25.8 | 24.0 | 1.5 | 1.1 |
| 107579 | 13.6 | 2.5 | 36.7 | 55.0 | 626 | 186 | > 500 | 9.7 | < 0.1 | 4 | 4.6 | 0.5 | 667 | 309 | 681 | 83.0 | 297 | 44.3 | 31.4 | 3.3 | 15.3 | 14.8 | 1.2 | 0.6 |
| 107580 | 15.8 | 1.4 | 61.1 | 30.4 | 311 | 170 | 135 | 8.8 | < 0.1 | 2 | 1.9 | 0.1 | 645 | 219 | 407 | 45.9 | 158 | 23.4 | 16.9 | 1.7 | 8.0 | 14.1 | 0.5 | 0.3 |
| 107581 | 13.6 | 0.4 | 25.8 | 64.0 | 881 | 35 | 309 | 2.2 | 0.1 | 2 | 2.8 | 0.3 | 331 | 334 | 780 | 96.8 | 360 | 53.0 | 38.7 | 3.8 | 17.3 | 6.7 | 1.1 | 0.6 |
| 107582 | 16.9 | 1.6 | 52.4 | 66.6 | 458 | 112 | 54.0 | 21.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 561 | 162 | 307 | 35.4 | 124 | 19.4 | 17.2 | 2.4 | 14.6 | 9.3 | 0.4 | 0.8 |
| 107583 | 12.2 | 4.8 | 56.8 | 134 | 463 | 214 | 445 | 91.8 | 0.2 | 4 | 15.4 | 0.6 | 803 | 837 | 1750 | 194 | 733 | > 100 | 74.1 | 7.4 | 35.5 | 28.8 | 1.8 | 1.5 |
| 107584 | 16.3 | 1.6 | 60.9 | 40.3 | 413 | 159 | 247 | 23.8 | < 0.1 | 1 | 12.1 | 0.2 | 696 | 193 | 378 | 44.5 | 159 | 23.6 | 17.2 | 1.8 | 9.4 | 18.6 | 0.5 | 0.5 |
| 107585 | 12.5 | 1.7 | 44.2 | 50.1 | 519 | 86 | 98.0 | 29.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 580 | 236 | 502 | 59.7 | 214 | 32.6 | 23.6 | 2.5 | 12.4 | 37.3 | 0.6 | 0.6 |
| 107586 | 14.4 | 2.0 | 80.8 | 44.6 | 410 | 181 | 262 | 27.1 | < 0.1 | 2 | 1.3 | 0.2 | 606 | 166 | 309 | 36.6 | 131 | 20.8 | 16.5 | 1.9 | 10.2 | 27.1 | 0.4 | 0.5 |
| 107587 | 20.1 | < 0.1 | 54.8 | 45.3 | 294 | 185 | 217 | 21.5 | 0.1 | 2 | 0.5 | 0.2 | 683 | 133 | 263 | 32.1 | 120 | 20.8 | 17.4 | 2.2 | 11.0 | 14.6 | 1.0 | 0.6 |
| 107588 | 17.2 | 0.8 | 32.0 | 19.7 | 233 | 239 | 160 | 15.0 | < 0.1 | 3 | 2.0 | 0.2 | 510 | 94.8 | 221 | 25.9 | 96.3 | 15.6 | 10.7 | 1.1 | 5.6 | 15.9 | 1.4 | 0.3 |
| 107589 | 11.3 | 1.0 | 37.2 | 19.1 | 329 | 119 | 56.5 | 18.1 | < 0.1 | 2 | 15.3 | < 0.1 | 408 | 77.3 | 153 | 18.3 | 66.8 | 10.5 | 8.0 | 0.9 | 4.5 | 30.8 | 0.5 | 0.2 |
| 107590 | 4.5 | 0.7 | 10.1 | 14.4 | 317 | 17 | 110 | 55.9 | < 0.1 | 1 | 0.7 | < 0.1 | 220 | 107 | 220 | 24.7 | 85.7 | 12.1 | 8.6 | 0.9 | 3.9 | 14.0 | 0.2 | 0.2 |
| 107591 | 11.4 | 4.9 | 56.1 | 69.8 | 747 | 86 | 34.9 | 12.5 | 0.2 | < 1 | 0.2 | < 0.1 | 557 | 355 | 721 | 83.3 | 291 | 42.9 | 33.8 | 3.6 | 17.5 | 34.0 | 0.8 | 0.8 |
| 107592 | 13.5 | 3.0 | 53.3 | 59.5 | 525 | 141 | 135 | 11.5 | 0.2 | < 1 | 0.1 | 0.1 | 540 | 400 | 780 | 90.5 | 316 | 44.5 | 31.9 | 3.3 | 15.3 | 34.3 | 0.8 | 0.7 |
| 107593 | 9.8 | 2.6 | 48.4 | 126 | 905 | 67 | 35.2 | 576 | 0.3 | < 1 | 0.2 | < 0.1 | 623 | 510 | 1100 | 139 | 523 | 81.1 | 60.4 | 6.2 | 29.8 | 82.1 | 1.4 | 1.4 |
| 107594 | 12.4 | 2.1 | 61.9 | 31.4 | 484 | 135 | 89.2 | 59.7 | < 0.1 | < 1 | 7.6 | < 0.1 | 529 | 123 | 246 | 29.0 | 102 | 14.9 | 11.6 | 1.3 | 6.6 | 30.5 | 0.3 | 0.4 |
| 107595 | 13.6 | 23.4 | 37.0 | 206 | 992 | 80 | 25.1 | 111 | 0.2 | < 1 | 4.5 | 0.3 | 604 | 771 | 1880 | 203 | 731 | > 100 | 94.1 | 10.7 | 54.4 | 14.1 | 2.1 | 2.6 |
| 107596 | 10.5 | 3.3 | 18.0 | 67.4 | 675 | 108 | > 500 | 99.8 | 0.1 | 3 | 0.9 | 1.2 | 872 | 260 | 574 | 68.1 | 252 | 38.4 | 31.3 | 3.4 | 17.4 | 80.7 | 1.6 | 0.9 |
| 107597 | 14.2 | 2.4 | 20.1 | 18.6 | 266 | 139 | 90.8 | 8.3 | < 0.1 | < 1 | 1.7 | 0.2 | 589 | 88.4 | 211 | 23.2 | 87.7 | 14.4 | 11.3 | 1.2 | 5.8 | 16.3 | 0.8 | 0.3 |
| 107598 | 11.7 | 2.2 | 48.1 | 26.9 | 383 | 120 | 25.7 | 6.6 | < 0.1 | < 1 | 0.3 | 0.1 | 646 | 134 | 293 | 32.7 | 118 | 18.7 | 13.9 | 1.5 | 7.3 | 21.3 | 0.7 | 0.4 |
| 107599 | 14.8 | 3.3 | 72.2 | 47.5 | 388 | 132 | 65.8 | 4.1 | < 0.1 | < 1 | 0.3 | 0.2 | 686 | 674 | 1290 | 132 | 450 | 58.5 | 39.9 | 3.4 | 14.0 | 23.4 | 1.3 | 0.5 |
| 107600 | 14.6 | 7.0 | 66.1 | 50.3 | 402 | 108 | 29.0 | 4.2 | 0.1 | < 1 | < 0.1 | 0.2 | 721 | 453 | 875 | 92.6 | 325 | 45.7 | 32.1 | 3.2 | 14.0 | 26.7 | 0.9 | 0.6 |
| 107626 | 15.0 | 1.5 | 26.4 | 42.4 | 400 | 90 | 75.5 | 9.5 | 0.1 | < 1 | 0.2 | 0.2 | 521 | 571 | 1090 | 107 | 370 | 53.5 | 37.6 | 3.4 | 14.2 | 13.4 | 1.0 | 0.5 |
| 107627 | 14.0 | 2.7 | 90.8 | 34.8 | 347 | 141 | 130 | 11.1 | 0.1 | 2 | 1.4 | 0.5 | 661 | 389 | 783 | 83.5 | 280 | 36.4 | 25.0 | 2.4 | 10.7 | 15.1 | 0.8 | 0.4 |
| 107628 | 14.0 | 2.3 | 54.4 | 8.4 | 266 | 163 | 36.5 | 2.1 | < 0.1 | 1 | 4.8 | 0.1 | 639 | 29.0 | 63.3 | 7.0 | 25.5 | 4.1 | 3.1 | 0.4 | 2.0 | 6.2 | 0.4 | 0.1 |
| 107629 | 16.5 | 2.0 | 74.6 | 12.5 | 330 | 180 | 13.2 | 0.9 | < 0.1 | < 1 | 2.3 | < 0.1 | 684 | 36.9 | 78.2 | 8.2 | 29.7 | 5.0 | 4.1 | 0.5 | 2.7 | 11.9 | 0.5 | 0.2 |
| 107630 | 12.9 | 2.2 | 72.7 | 26.7 | 386 | 104 | 179 | 17.4 | < 0.1 | 1 | 0.5 | 0.4 | 554 | 211 | 438 | 48.0 | 170 | 24.2 | 17.1 | 1.6 | 7.3 | 17.3 | 0.5 | 0.3 |
| 107631 | 17.1 | 1.2 | 17.6 | 229 | 97.6 | 73 | 112 | 29.7 | 0.5 | 2 | 11.3 | 0.3 | 614 | 577 | 1210 | 147 | 636 | > 100 | 145 | 14.4 | 65.0 | 167 | 2.5 | 2.7 |
| 107632 | 16.9 | 1.2 | 18.7 | 12.6 | 181 | 186 | 61.0 | 5.8 | < 0.1 | 1 | 1.7 | 0.2 | 540 | 38.0 | 83.4 | 10.1 | 38.9 | 7.6 | 6.4 | 0.7 | 3.7 | 86.0 | 0.5 | 0.2 |
| 107633 | 18.6 | < 0.1 | 20.6 | 23.5 | 180 | 208 | 33.6 | 1.7 | < 0.1 | 1 | 9.6 | < 0.1 | 440 | 89.9 | 190 | 22.1 | 82.7 | 13.2 | 10.0 | 1.1 | 5.6 | 129 | 0.6 | 0.4 |
| 107634 | 22.4 | < 0.1 | 1.5 | 6.6 | 83.4 | 237 | 2.9 | 0.5 | < 0.1 | < 1 | 0.3 | < 0.1 | 154 | 22.6 | 54.1 | 6.9 | 27.3 | 4.7 | 3.3 | 0.4 | 1.7 | 36.6 | 0.3 | 0.1 |
| 107635 | 23.2 | < 0.1 | 39.3 | 27.2 | 148 | 274 | 21.3 | 4.7 | < 0.1 | < 1 | 0.2 | 0.1 | 391 | 195 | 382 | 41.9 | 152 | 22.4 | 16.4 | 1.6 | 7.4 | 41.1 | 1.1 | 0.3 |
| 107636 | 19.8 | 0.4 | 34.8 | 15.9 | 237 | 203 | 20.1 | 1.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 494 | 39.1 | 81.9 | 10.1 | 38.5 | 6.7 | 5.7 | 0.7 | 3.7 | 49.8 | 0.8 | 0.2 |
| 107637 | 17.1 | < 0.1 | 28.5 | 14.4 | 114 | 120 | 16.9 | 1.9 | < 0.1 | < 1 | 1.4 | < 0.1 | 354 | 130 | 252 | 26.2 | 91.7 | 12.6 | 10.4 | 1.0 | 4.5 | 185 | 1.1 | 0.2 |
| 107638 | 19.3 | 3.7 | 44.1 | 17.6 | 295 | 226 | 22.8 | 3.8 | < 0.1 | < 1 | 0.8 | 0.1 | 568 | 37.8 | 72.3 | 9.1 | 33.6 | 5.9 | 5.2 | 0.7 | 3.7 | 58.4 | 0.5 | 0.3 |
| 107639 | 17.5 | 1.9 | 53.7 | 12.5 | 275 | 190 | 15.1 | 1.3 | < 0.1 | < 1 | 0.5 | < 0.1 | 564 | 28.5 | 62.5 | 6.7 | 25.1 | 4.6 | 3.8 | 0.5 | 2.7 | 20.0 | 0.6 | 0.2 |
| 107640 | 17.0 | 0.3 | 42.2 | 24.7 | 191 | 167 | 53.2 | 3.5 | < 0.1 | 1 | 0.5 | 0.4 | 474 | 109 | 203 | 23.5 | 86.8 | 15.7 | 12.6 | 1.4 | 6.3 | 185 | 0.6 | 0.3 |
| 107641 | 13.0 | 0.7 | 72.9 | 35.4 | 249 | 96 | 121 | 6.6 | < 0.1 | 2 | 2.5 | 0.2 | 749 | 67.3 | 110 | 15.8 | 62.1 | 12.9 | 12.2 | 1.6 | 8.2 | 107 | 0.5 | 0.4 |
| 107642 | 12.7 | 2.8 | 7.7 | 13.7 | 212 | 89 | 126 | 14.1 | < 0.1 | 3 | 2.6 | 0.3 | 481 | 36.9 | 78.8 | 10.2 | 43.0 | 10.2 | 8.0 | 1.0 | 5.1 | 61.1 | 0.5 | 0.3 |
| 107643 | 13.7 | 1.9 | 26.5 | 8.2 | 245 | 179 | 47.4 | 4.0 | < 0.1 | 1 | 20.6 | 0.2 | 565 | 22.7 | 54.5 | 6.7 | 28.3 | 5.6 | 3.9 | 0.4 | 2.2 | 16.4 | 0.5 | 0.1 |
| 107644 | 8.2 | 5.6 | 19.7 | 226 | 433 | 127 | > 500 | 137 | 0.3 | 10 | 3.2 | 1.2 | 722 | 1010 | 1790 | 191 | 682 | > 100 | 91.7 | 11.5 | 60.1 | 50.5 | 1.9 | 2.8 |
| 107645 | 13.3 | 3.2 | 61.3 | 85.9 | 418 | 84 | 37.4 | 18.1 | 0.2 | < 1 | 0.2 | 0.2 | 670 | 528 | 936 | 114 | 403 | 57.5 | 43.0 | 4.5 | 22.7 | 22.7 | 1.1 | 1.1 |
| 107646 | 13.8 | 4.9 | 80.1 | 77.2 | 501 | 125 | 161 | 116 | 0.2 | < 1 | 0.6 | 0.3 | 716 | 630 | 1180 | 125 | 442 | 64.6 | 46.9 | 4.7 | 21.8 | 33.4 | 1.3 | 0.9 |
| 107647 | 13.9 | 2.8 | 56.8 | 36.5 | 363 | 166 | 222 | 9.1 | < 0.1 | 2 | 2.5 | 0.6 | 603 | 179 | 371 | 38.0 | 133 | 20.1 | 16.2 | 1.9 | 9.5 | 22.5 | 0.5 | 0.5 |
| 107648 | 13.1 | 7.3 | 41.3 | 135 | 666 | 83 | 32.4 | 17.5 | 0.2 | < 1 | 0.2 | 0.1 | 510 | 628 | 1090 | 127 | 459 | 74.2 | 62.8 | 7.4 | 37.5 | 13.7 | 1.3 | 1.5 |
| 107649 | 14.5 | 3.9 | 49.7 | 67.9 | 493 | 161 | > 500 | 16.3 | 0.2 | 3 | 0.9 | 1.0 | 559 | 608 | 1190 | 127 | 446 | 59.3 | 43.1 | 4.1 | 18.8 | 31.9 | 1.3 | 0.8 |
| 107650 | 15.4 | 3.6 | 55.9 | 32.7 | 385 | 171 | 263 | 4.1 | < 0.1 | 2 | 4.0 | 0.5 | 719 | 192 | 376 | 40.5 | 142 | 21.0 | 15.9 | 1.7 | 8.6 | 52.4 | 0.5 | 0.5 |
| 107651 | 11.0 | 4.3 | 15.0 | 14.3 | 360 | 115 | 110 | 14.0 | < 0.1 | 2 | 0.9 | 0.2 | 563 | 94.5 | 204 | 23.4 | 85.9 | 13.6 | 9.5 | 1.0 | 4.8 | 35.5 | 0.8 | 0.3 |
| 107652 | 11.4 | 3.9 | 30.5 | 19.1 | 398 | 143 | 71.1 | 9.7 | < 0.1 | 2 | 1.8 | 0.3 | 591 | 104 | 221 | 24.8 | 89.5 | 14.5 | 10.7 | 1.2 | 5.6 | 39.9 | 0.5 | 0.3 |
| 107653 | 13.7 | 3.5 | 64.9 | 31.3 | 424 | 101 | 50.6 | 9.4 | < 0.1 | < 1 | 1.1 | 0.6 | 608 | 197 | 393 | 43.0 | 153 | 22.2 | 16.3 | 1.7 | 8.2 | 31.1 | 0.6 | 0.4 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107654 | 14.2 | 3.0 | 61.9 | 58.0 | 484 | 137 | 140 | 5.3 | 0.1 | 3 | 32.6 | 0.3 | 520 | 413 | 819 | 88.5 | 307 | 43.0 | 32.3 | 3.3 | 15.3 | 40.2 | 1.0 | 0.6 |
| 107655 | 9.5 | 5.1 | 48.9 | 38.6 | 468 | 119 | 123 | 28.0 | 0.1 | 2 | 30.6 | 0.3 | 626 | 348 | 645 | 69.0 | 244 | 33.4 | 23.3 | 2.3 | 10.6 | 36.9 | 0.7 | 0.5 |
| 107656 | 12.7 | 4.1 | 61.4 | 35.4 | 338 | 194 | 143 | 5.5 | < 0.1 | 2 | 48.9 | 0.3 | 696 | 186 | 395 | 45.9 | 168 | 25.8 | 18.2 | 2.0 | 9.1 | 29.4 | 0.6 | 0.4 |
| 107657 | 10.5 | 3.8 | 42.0 | 55.6 | 556 | 61 | 10.4 | 28.1 | 0.1 | < 1 | 0.2 | 0.4 | 682 | 306 | 639 | 68.9 | 247 | 36.8 | 29.3 | 3.1 | 14.7 | 30.4 | 0.7 | 0.7 |
| 107658 | 13.2 | 1.7 | 85.2 | 26.6 | 427 | 79 | 17.3 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 561 | 162 | 343 | 36.8 | 131 | 19.5 | 14.7 | 1.5 | 7.2 | 14.1 | 0.4 | 0.3 |
| 107659 | 13.4 | 2.8 | 51.4 | 52.4 | 461 | 88 | 472 | 6.5 | 0.1 | < 1 | 0.5 | 0.7 | 657 | 367 | 816 | 92.0 | 346 | 51.7 | 36.8 | 3.7 | 16.8 | 19.3 | 1.1 | 0.6 |
| 107660 | 12.8 | 3.6 | 10.3 | 34.7 | 467 | 138 | > 500 | 16.6 | 0.1 | 3 | 1.6 | 1.0 | 583 | 192 | 429 | 49.6 | 182 | 27.8 | 20.4 | 2.3 | 11.8 | 32.3 | 1.5 | 0.6 |
| 107661 | 11.6 | 1.8 | 11.9 | 27.6 | 325 | 148 | 38.7 | 13.4 | < 0.1 | < 1 | 0.2 | 0.2 | 583 | 83.0 | 189 | 22.5 | 84.0 | 14.6 | 12.0 | 1.5 | 8.5 | 23.5 | 0.8 | 0.5 |
| 107662 | 12.1 | 1.7 | 47.7 | 25.0 | 326 | 157 | 40.1 | 12.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 552 | 117 | 262 | 27.2 | 100 | 15.7 | 12.1 | 1.4 | 6.7 | 23.7 | 0.4 | 0.3 |
| 107663 | 10.9 | 3.6 | 58.7 | 36.7 | 286 | 131 | 61.2 | 12.6 | < 0.1 | 2 | 15.4 | 0.2 | 532 | 171 | 312 | 40.3 | 148 | 23.2 | 18.0 | 2.0 | 9.7 | 54.5 | 0.6 | 0.4 |
| 107664 | 13.6 | 3.0 | 59.8 | 20.6 | 258 | 204 | 37.6 | 9.4 | < 0.1 | 1 | 1.9 | 0.1 | 631 | 134 | 276 | 29.4 | 106 | 16.1 | 11.5 | 1.1 | 5.5 | 33.5 | 0.7 | 0.3 |
| 107665 | 14.1 | 3.0 | 61.4 | 33.4 | 234 | 152 | 134 | 18.0 | 0.1 | 3 | 3.1 | 0.2 | 675 | 307 | 590 | 66.4 | 234 | 34.3 | 23.8 | 2.4 | 10.6 | 28.6 | 1.0 | 0.4 |
| 107666 | 11.9 | 2.0 | 56.9 | 8.9 | 304 | 203 | 10.3 | 1.7 | < 0.1 | < 1 | 1.0 | < 0.1 | 646 | 25.0 | 51.9 | 5.5 | 20.3 | 3.5 | 2.9 | 0.3 | 1.9 | 7.0 | 0.3 | 0.2 |
| 107667 | 11.2 | 3.1 | 59.9 | 33.9 | 384 | 149 | 406 | 26.2 | < 0.1 | 3 | 3.5 | 0.6 | 535 | 991 | 1250 | 96.5 | 262 | 28.1 | 22.0 | 2.0 | 9.0 | 27.4 | 0.7 | 0.4 |
| 107668 | 17.2 | 0.9 | 31.0 | 10.1 | 162 | 173 | 54.8 | 31.6 | < 0.1 | 1 | 0.4 | 0.2 | 492 | 55.5 | 115 | 12.9 | 47.6 | 8.2 | 5.9 | 0.6 | 2.9 | 38.3 | 1.0 | 0.2 |
| 107669 | 13.4 | 2.4 | 60.6 | 19.9 | 245 | 190 | 49.6 | 17.1 | < 0.1 | 1 | 4.7 | 0.1 | 707 | 95.2 | 174 | 20.2 | 71.3 | 11.7 | 9.0 | 1.0 | 5.1 | 49.2 | 0.7 | 0.3 |
| 107670 | 14.4 | 2.4 | 13.3 | 9.1 | 206 | 170 | 67.8 | 17.2 | < 0.1 | 1 | 3.3 | 0.1 | 556 | 29.2 | 66.2 | 8.0 | 30.1 | 5.4 | 4.1 | 0.5 | 2.8 | 38.4 | 0.9 | 0.2 |
| 107671 | 14.8 | 1.6 | 36.1 | 11.5 | 223 | 172 | 18.4 | 2.8 | < 0.1 | < 1 | 1.3 | 0.1 | 638 | 42.5 | 110 | 10.0 | 36.9 | 6.7 | 5.3 | 0.6 | 3.0 | 52.5 | 0.4 | 0.2 |
| 107672 | 15.4 | < 0.1 | 59.0 | 16.5 | 190 | 151 | 43.8 | 6.1 | < 0.1 | 1 | 10.2 | 0.2 | 578 | 59.1 | 122 | 14.7 | 62.4 | 15.2 | 9.4 | 1.0 | 4.5 | 61.4 | 0.5 | 0.2 |
| 107673 | 14.2 | 11.9 | 57.0 | 30.2 | 235 | 178 | 84.9 | 5.5 | 0.2 | 1 | 3.5 | 0.1 | 622 | 462 | 847 | 94.2 | 371 | 69.8 | 40.7 | 3.1 | 10.9 | 23.3 | 1.5 | 0.4 |
| 107674 | 15.8 | 0.9 | 37.0 | 26.7 | 225 | 200 | 44.1 | 8.0 | < 0.1 | 1 | 1.1 | 0.1 | 645 | 131 | 236 | 27.7 | 102 | 17.4 | 13.9 | 1.4 | 6.8 | 84.5 | 0.6 | 0.4 |
| 107675 | 20.5 | 0.3 | 45.8 | 10.3 | 167 | 199 | 18.1 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 659 | 35.1 | 73.1 | 8.4 | 31.3 | 5.4 | 4.3 | 0.5 | 2.6 | 28.7 | 0.7 | 0.2 |
| 107676 | 18.4 | < 0.1 | 8.6 | 10.1 | 87.5 | 171 | 16.0 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 377 | 29.9 | 69.3 | 8.8 | 35.1 | 6.6 | 5.5 | 0.6 | 3.0 | 63.1 | 0.7 | 0.2 |
| 107677 | 19.8 | < 0.1 | 3.8 | 8.1 | 113 | 125 | 11.0 | 1.8 | < 0.1 | < 1 | 0.3 | < 0.1 | 345 | 12.6 | 39.2 | 4.0 | 16.5 | 3.4 | 3.3 | 0.4 | 2.4 | 71.8 | 0.6 | 0.1 |
| 92012 | 21.9 | 5.0 | 37.0 | 24.7 | 335 | 48 | 10.5 | 6.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 274 | 166 | 309 | 35.7 | 147 | 52.0 | 74.7 | 12.0 | 66.6 | 49.1 | 0.6 | 2.4 |
| 107678 | 16.3 | < 0.1 | 9.5 | 13.7 | 113 | 159 | 9.5 | 1.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 299 | 36.1 | 73.7 | 9.2 | 35.4 | 6.9 | 5.9 | 0.7 | 3.7 | 75.6 | 0.6 | 0.2 |
| 107679 | 21.3 | < 0.1 | 14.8 | 6.7 | 100 | 153 | 8.3 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 368 | 28.0 | 72.9 | 9.4 | 38.9 | 7.5 | 5.6 | 0.6 | 2.3 | 48.5 | 0.4 | 0.1 |
| 107680 | 19.6 | 1.6 | 15.3 | 10.3 | 80.1 | 149 | 16.3 | 1.1 | < 0.1 | < 1 | 0.8 | 0.1 | 351 | 36.3 | 79.7 | 9.8 | 37.9 | 6.8 | 5.3 | 0.6 | 2.9 | 88.3 | 0.6 | 0.2 |
| 107681 | 18.3 | 1.5 | 42.4 | 21.1 | 233 | 161 | 22.2 | 3.7 | < 0.1 | 1 | 0.7 | < 0.1 | 503 | 76.6 | 151 | 17.5 | 62.4 | 10.7 | 8.7 | 1.0 | 5.0 | 53.2 | 0.9 | 0.3 |
| 107682 | 22.4 | 1.2 | 36.7 | 10.3 | 118 | 152 | 58.1 | 6.2 | < 0.1 | < 1 | 2.2 | 0.2 | 464 | 71.5 | 149 | 17.5 | 65.4 | 11.8 | 8.7 | 0.8 | 3.4 | 52.3 | 0.8 | 0.2 |
| 107683 | 17.5 | 0.3 | 50.1 | 17.6 | 182 | 174 | 32.1 | 12.3 | < 0.1 | < 1 | 2.0 | 0.1 | 573 | 85.3 | 190 | 20.8 | 81.9 | 16.9 | 12.2 | 1.2 | 5.4 | 65.5 | 0.6 | 0.3 |
| 107684 | 16.7 | 0.3 | 60.3 | 27.3 | 146 | 163 | 47.7 | 7.0 | 0.2 | < 1 | 3.1 | 0.1 | 460 | 205 | 469 | 74.1 | 397 | 81.2 | 38.4 | 3.2 | 11.3 | 57.6 | 1.4 | 0.3 |
| 107685 | 18.1 | 1.5 | 59.7 | 20.8 | 277 | 194 | 37.2 | 6.2 | < 0.1 | 1 | 2.1 | < 0.1 | 600 | 78.7 | 157 | 17.3 | 69.0 | 14.6 | 10.3 | 1.1 | 5.3 | 39.5 | 0.8 | 0.3 |
| 107686 | 18.2 | 1.7 | 36.2 | 19.9 | 228 | 206 | 65.4 | 29.3 | < 0.1 | 1 | 0.4 | 0.2 | 844 | 82.1 | 164 | 19.2 | 69.5 | 11.7 | 9.5 | 1.0 | 5.1 | 49.5 | 0.8 | 0.3 |
| 107687 | 16.8 | 2.2 | 51.9 | 20.1 | 216 | 160 | 31.5 | 28.2 | < 0.1 | 1 | 0.6 | < 0.1 | 610 | 159 | 349 | 30.9 | 108 | 16.8 | 12.7 | 1.3 | 5.9 | 27.8 | 0.8 | 0.3 |
| 107688 | 15.6 | < 0.1 | 71.4 | 28.9 | 226 | 183 | 77.2 | 28.3 | < 0.1 | 2 | 9.1 | 0.2 | 592 | 205 | 370 | 40.8 | 147 | 23.9 | 18.1 | 1.8 | 7.8 | 58.7 | 0.8 | 0.4 |
| 107689 | 12.5 | 1.5 | 13.7 | 4.1 | 172 | 145 | 23.0 | 3.6 | < 0.1 | < 1 | 1.4 | < 0.1 | 510 | 9.8 | 24.7 | 2.8 | 10.8 | 2.1 | 1.8 | 0.2 | 1.2 | 9.6 | 0.1 | < 0.1 |
| 107690 | 13.1 | 4.9 | 15.5 | 60.9 | 582 | 127 | > 500 | 89.4 | 0.2 | 7 | 3.1 | 0.9 | 678 | 1220 | 2390 | 245 | 786 | 86.8 | 57.6 | 4.8 | 20.3 | 36.5 | 2.9 | 0.8 |
| 107691 | 18.4 | 1.0 | 19.5 | 20.9 | 158 | 136 | 40.1 | 4.4 | 0.1 | 2 | 8.5 | < 0.1 | 483 | 79.9 | 203 | 29.5 | 151 | 32.9 | 18.6 | 1.7 | 7.0 | 64.0 | 0.8 | 0.3 |
| 107692 | 20.5 | < 0.1 | 41.3 | 11.2 | 110 | 132 | 36.8 | 4.9 | < 0.1 | < 1 | 2.2 | < 0.1 | 406 | 53.7 | 113 | 13.5 | 57.6 | 13.7 | 8.7 | 0.8 | 3.4 | 55.2 | 0.5 | 0.2 |
| 107693 | 18.3 | 0.4 | 33.7 | 10.2 | 196 | 198 | 15.6 | 2.4 | < 0.1 | < 1 | 0.5 | < 0.1 | 465 | 43.1 | 91.2 | 10.6 | 38.9 | 6.6 | 5.0 | 0.5 | 2.6 | 21.7 | 0.7 | 0.2 |
| 107694 | 9.9 | 3.3 | 24.1 | 83.3 | 876 | 67 | 31.3 | 221 | 0.2 | < 1 | < 0.1 | 0.1 | 327 | 638 | 1380 | 160 | 589 | 85.2 | 59.0 | 5.6 | 24.3 | 38.5 | 1.7 | 1.0 |
| 107695 | 14.2 | 1.8 | 52.1 | 55.8 | 679 | 80 | 22.2 | 15.9 | < 0.1 | < 1 | < 0.1 | 0.1 | 474 | 251 | 534 | 57.3 | 204 | 29.3 | 24.2 | 2.8 | 14.8 | 10.0 | 0.7 | 0.7 |
| 107696 | 12.0 | 3.1 | 44.9 | 57.6 | 558 | 83 | 38.3 | 13.3 | 0.1 | < 1 | < 0.1 | 0.2 | 592 | 298 | 612 | 68.3 | 249 | 37.7 | 29.7 | 3.2 | 15.6 | 22.0 | 0.7 | 0.8 |
| 107697 | 13.2 | 1.6 | 47.0 | 26.5 | 358 | 100 | 56.9 | 4.9 | < 0.1 | < 1 | < 0.1 | 0.2 | 533 | 185 | 381 | 42.4 | 152 | 21.8 | 15.9 | 1.6 | 7.8 | 12.5 | 0.5 | 0.4 |
| 107698 | 14.3 | 2.2 | 53.7 | 27.7 | 326 | 170 | 124 | 8.1 | < 0.1 | 2 | 8.8 | 0.2 | 650 | 176 | 345 | 39.5 | 139 | 20.6 | 14.5 | 1.5 | 7.1 | 20.7 | 0.5 | 0.3 |
| 107699 | 10.7 | 4.5 | 9.2 | 37.2 | 566 | 146 | > 500 | 13.5 | < 0.1 | 4 | 2.3 | 1.4 | 973 | 270 | 629 | 72.4 | 263 | 37.6 | 27.1 | 2.8 | 13.6 | 19.0 | 1.8 | 0.6 |
| 107700 | 12.4 | 3.0 | 51.4 | 59.0 | 638 | 127 | 307 | 11.8 | < 0.1 | 2 | 7.0 | 0.5 | 605 | 495 | 1020 | 108 | 385 | 51.8 | 36.4 | 3.5 | 16.0 | 24.8 | 1.6 | 0.8 |
| 107801 | 15.5 | 2.6 | 77.3 | 45.8 | 435 | 91 | 105 | 5.6 | < 0.1 | < 1 | 1.2 | 0.3 | 683 | 331 | 672 | 73.0 | 256 | 35.8 | 26.2 | 2.6 | 11.8 | 29.2 | 1.2 | 0.5 |
| 107802 | 13.6 | 3.1 | 65.6 | 55.0 | 424 | 89 | 19.2 | 17.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 667 | 499 | 986 | 103 | 357 | 48.8 | 36.3 | 3.5 | 15.6 | 29.9 | 1.1 | 0.7 |
| 107803 | 11.2 | 5.5 | 37.4 | 143 | 694 | 66 | 8.9 | 18.4 | 0.3 | < 1 | 0.2 | 0.2 | 603 | 1130 | 2190 | 240 | 826 | > 100 | 91.2 | 9.0 | 39.0 | 37.8 | 2.3 | 1.6 |
| 107804 | 15.9 | 4.4 | 73.4 | 79.8 | 532 | 57 | 55.0 | 20.3 | 0.2 | < 1 | < 0.1 | 0.2 | 560 | 571 | 1200 | 145 | 524 | 79 | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107805 | 18.5 | 1.6 | 78.9 | 9.0 | 298 | 155 | 11.1 | 2.3 | < 0.1 | 1 | 1.2 | < 0.1 | 652 | 24.0 | 50.7 | 5.6 | 21.0 | 3.5 | 2.8 | 0.3 | 1.9 | 7.3 | 1.0 | 0.1 |
| 107806 | 15.9 | 1.5 | 72.6 | 8.9 | 289 | 153 | 9.4 | 0.7 | < 0.1 | < 1 | 7.8 | < 0.1 | 656 | 24.3 | 50.5 | 5.5 | 19.9 | 3.4 | 2.8 | 0.3 | 1.8 | 10.3 | 0.5 | 0.1 |
| 107807 | 15.0 | 1.7 | 72.5 | 20.1 | 442 | 153 | 155 | 5.3 | < 0.1 | 1 | 0.4 | 0.2 | 660 | 89.2 | 216 | 23.5 | 87.8 | 13.5 | 10.1 | 1.1 | 5.6 | 8.0 | 0.3 | 0.3 |
| 107808 | 11.0 | 7.6 | 48.9 | 187 | 637 | 84 | 29.8 | 20.4 | 0.3 | 1 | 0.4 | 0.2 | 760 | 814 | 2050 | 247 | 935 | > 100 | 112 | 12.0 | 56.7 | 16.3 | 2.7 | 2.4 |
| 107809 | 12.9 | 2.0 | 10.3 | 12.6 | 245 | 152 | 196 | 2.9 | < 0.1 | 2 | 0.9 | 0.4 | 527 | 68.1 | 169 | 20.9 | 79.8 | 12.7 | 9.1 | 0.9 | 4.4 | 16.2 | 0.3 | 0.2 |
| 107810 | 13.9 | 2.8 | 29.1 | 34.8 | 530 | 160 | 96.3 | 5.9 | < 0.1 | < 1 | 2.4 | 0.2 | 628 | 184 | 429 | 47.1 | 172 | 26.3 | 19.9 | 2.1 | 10.0 | 24.2 | 1.2 | 0.5 |
| 107811 | 15.6 | 2.5 | 54.2 | 24.5 | 344 | 75 | 15.3 | 2.5 | < 0.1 | < 1 | 0.5 | < 0.1 | 636 | 137 | 306 | 33.2 | 119 | 17.6 | 13.5 | 1.4 | 6.7 | 17.8 | 0.6 | 0.3 |
| 107812 | 12.4 | 2.0 | 95.0 | 33.3 | 409 | 88 | 160 | 42.2 | 0.1 | 2 | 1.3 | 0.3 | 476 | 240 | 449 | 52.4 | 182 | 23.1 | 17.4 | 1.6 | 7.7 | 92.7 | 0.6 | 0.4 |
| 107813 | 16.9 | 1.1 | 59.2 | 34.9 | 465 | 88 | 25.2 | 5.4 | 0.1 | < 1 | < 0.1 | 0.1 | 513 | 217 | 408 | 41.6 | 144 | 21.3 | 17.3 | 1.8 | 9.0 | 11.6 | 0.5 | 0.5 |
| 107814 | 13.5 | 5.7 | 57.3 | 20.7 | 337 | 150 | 189 | 19.4 | < 0.1 | 2 | 2.3 | 0.3 | 653 | 167 | 394 | 43.0 | 156 | 20.5 | 13.6 | 1.3 | 5.9 | 13.2 | 0.6 | 0.3 |
| 107815 | 13.1 | 4.0 | 59.5 | 23.5 | 366 | 179 | 170 | 4.0 | < 0.1 | 2 | 2.0 | 0.3 | 573 | 128 | 266 | 28.1 | 100 | 14.8 | 11.5 | 1.2 | 5.9 | 22.9 | 0.4 | 0.3 |
| 107816 | 13.8 | 2.7 | 56.1 | 21.5 | 330 | 161 | 70.1 | 2.5 | < 0.1 | 1 | 3.8 | 0.2 | 582 | 65.0 | 123 | 16.2 | 60.4 | 10.0 | 8.1 | 1.0 | 5.0 | 33.3 | 0.5 | 0.3 |
| 107817 | 14.1 | 1.8 | 26.4 | 5.8 | 222 | 159 | 18.6 | 0.9 | < 0.1 | < 1 | 3.2 | < 0.1 | 591 | 11.8 | 28.2 | 3.4 | 13.3 | 2.6 | 2.0 | 0.3 | 1.5 | 13.0 | 0.9 | 0.1 |
| 107818 | 15.1 | 1.4 | 38.9 | 9.5 | 258 | 190 | 53.9 | 2.6 | < 0.1 | 1 | 0.7 | 0.1 | 587 | 54.0 | 106 | 10.6 | 36.1 | 5.1 | 3.9 | 0.4 | 2.3 | 8.2 | 0.2 | 0.2 |
| 107819 | 13.7 | 2.0 | 57.4 | 8.5 | 271 | 153 | 14.8 | 1.0 | < 0.1 | < 1 | 0.3 | 0.1 | 620 | 21.7 | 44.9 | 5.0 | 18.1 | 3.1 | 2.7 | 0.3 | 1.9 | 10.1 | 0.3 | 0.1 |
| 107820 | 14.4 | 2.3 | 64.4 | 15.3 | 301 | 180 | 46.9 | 3.1 | < 0.1 | 1 | 1.4 | 0.2 | 687 | 49.9 | 102 | 11.8 | 43.5 | 7.1 | 5.8 | 0.7 | 3.6 | 20.6 | 0.2 | 0.2 |
| 107821 | 12.8 | 0.7 | 63.5 | 10.7 | 291 | 168 | 22.3 | 1.9 | < 0.1 | < 1 | 1.3 | < 0.1 | 725 | 36.3 | 75.3 | 8.4 | 30.3 | 5.1 | 4.1 | 0.5 | 2.6 | 14.2 | 0.5 | 0.2 |
| 107822 | 9.6 | 1.7 | 57.8 | 23.6 | 341 | 74 | 11.8 | 17.8 | < 0.1 | < 1 | 0.2 | 0.1 | 520 | 77.8 | 155 | 18.4 | 66.8 | 10.4 | 8.2 | 1.0 | 5.4 | 16.4 | 0.3 | 0.3 |
| 107823 | 11.2 | 2.7 | 66.6 | 30.8 | 392 | 46 | 6.9 | 17.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 581 | 206 | 411 | 43.7 | 155 | 21.5 | 16.4 | 1.7 | 8.3 | 17.6 | 0.5 | 0.4 |
| 107824 | 12.7 | 1.7 | 63.2 | 40.1 | 410 | 80 | 18.3 | 17.0 | < 0.1 | < 1 | < 0.1 | 0.1 | 579 | 259 | 527 | 55.6 | 198 | 27.8 | 20.7 | 2.2 | 10.6 | 15.8 | 0.6 | 0.5 |
| 107825 | 10.6 | 3.0 | 61.5 | 25.0 | 371 | 133 | 84.3 | 64.5 | < 0.1 | 2 | 0.3 | 0.2 | 611 | 156 | 326 | 35.4 | 127 | 17.9 | 13.4 | 1.4 | 6.6 | 12.4 | 0.4 | 0.3 |
| 107826 | 13.3 | 2.2 | 59.1 | 16.8 | 317 | 182 | 97.1 | 1.9 | < 0.1 | 1 | 1.0 | 0.2 | 625 | 78.8 | 179 | 19.4 | 69.3 | 10.6 | 7.8 | 0.9 | 4.4 | 11.8 | 0.4 | 0.2 |
| 107827 | 12.8 | 2.1 | 43.6 | 9.0 | 268 | 173 | 25.9 | 1.3 | < 0.1 | < 1 | 2.7 | < 0.1 | 640 | 29.7 | 67.2 | 7.4 | 26.9 | 4.5 | 3.7 | 0.4 | 2.4 | 15.3 | 0.7 | 0.2 |
| 107828 | 12.7 | 2.0 | 27.3 | 8.1 | 241 | 193 | 47.1 | 0.7 | < 0.1 | 1 | 2.3 | 0.1 | 593 | 22.0 | 56.6 | 6.1 | 23.2 | 4.1 | 3.3 | 0.4 | 2.2 | 12.9 | 0.3 | 0.2 |
| 107829 | 13.6 | 1.9 | 55.9 | 9.1 | 296 | 187 | 8.4 | 0.5 | < 0.1 | < 1 | 0.8 | 0.1 | 659 | 21.5 | 47.3 | 5.0 | 18.5 | 3.3 | 2.7 | 0.3 | 1.9 | 10.9 | 0.1 | 0.1 |
| 107830 | 12.7 | 3.2 | 61.4 | 68.7 | 401 | 70 | 58.4 | 4.2 | 0.1 | < 1 | 0.9 | 0.5 | 633 | 660 | 1260 | 134 | 456 | 63.9 | 45.9 | 4.5 | 20.4 | 16.3 | 1.6 | 0.8 |
| 107831 | 13.5 | 2.6 | 80.0 | 50.3 | 438 | 121 | 88.4 | 7.6 | 0.1 | < 1 | 0.1 | 0.2 | 662 | 416 | 834 | 89.6 | 316 | 44.8 | 32.7 | 3.2 | 14.1 | 31.5 | 1.0 | 0.6 |
| 107832 | 12.3 | 3.7 | 49.8 | 36.9 | 332 | 159 | 139 | 4.7 | 0.1 | 2 | 1.3 | 0.2 | 710 | 311 | 642 | 66.6 | 234 | 33.1 | 23.2 | 2.2 | 10.2 | 29.7 | 0.7 | 0.5 |
| 107833 | 13.7 | 4.6 | 69.2 | 77.3 | 432 | 150 | 271 | 10.4 | 0.2 | 3 | 0.6 | 0.6 | 696 | 709 | 1340 | 147 | 506 | 65.5 | 44.8 | 4.4 | 20.2 | 32.5 | 1.5 | 1.0 |
| 107834 | 11.4 | 2.8 | 56.8 | 52.9 | 470 | 153 | > 500 | 14.7 | 0.1 | 3 | 2.5 | 0.8 | 692 | 425 | 879 | 94.3 | 336 | 46.1 | 33.7 | 3.3 | 14.9 | 23.8 | 1.0 | 0.7 |
| 107835 | 13.6 | 5.3 | 67.8 | 50.9 | 345 | 172 | 275 | 13.6 | 0.1 | 4 | 2.2 | 0.4 | 727 | 1940 | 2580 | 205 | 533 | 51.5 | 43.2 | 3.3 | 14.0 | 45.4 | 1.5 | 0.6 |
| 107836 | 12.7 | 3.7 | 53.6 | 39.8 | 365 | 160 | 236 | 13.1 | 0.1 | 2 | 0.8 | 0.5 | 556 | 336 | 657 | 70.9 | 252 | 35.0 | 25.5 | 2.5 | 11.3 | 57.9 | 0.8 | 0.5 |
| 107837 | 13.7 | 2.2 | 48.4 | 30.1 | 289 | 152 | 149 | 6.9 | < 0.1 | < 1 | 0.4 | 0.3 | 575 | 161 | 315 | 36.1 | 129 | 19.4 | 15.1 | 1.6 | 8.0 | 36.6 | 0.6 | 0.4 |
| 107838 | 11.3 | 3.1 | 9.4 | 18.5 | 493 | 142 | 397 | 7.9 | 0.1 | 3 | 0.7 | 0.8 | 519 | 179 | 376 | 42.3 | 152 | 21.8 | 16.3 | 1.6 | 7.6 | 47.0 | 1.6 | 0.4 |
| 107839 | 13.2 | 3.5 | 15.9 | 25.0 | 351 | 144 | 319 | 10.8 | 0.1 | 2 | 4.7 | 0.5 | 534 | 148 | 349 | 37.6 | 135 | 20.6 | 15.4 | 1.6 | 7.7 | 17.9 | 0.6 | 0.4 |
| 107840 | 12.7 | 3.1 | 36.4 | 45.1 | 462 | 103 | 357 | 4.5 | 0.1 | 2 | 1.8 | 0.5 | 545 | 554 | 1110 | 120 | 427 | 52.6 | 34.5 | 3.0 | 13.4 | 15.4 | 1.6 | 0.6 |
| 107841 | 10.6 | 4.3 | 51.1 | 59.7 | 774 | 75 | 26.6 | 19.0 | 0.2 | < 1 | < 0.1 | 0.2 | 567 | 466 | 858 | 91.0 | 317 | 44.8 | 35.6 | 3.6 | 16.5 | 28.5 | 1.0 | 0.7 |
| 107842 | 7.9 | 7.1 | 41.5 | 129 | > 1000 | 32 | 8.5 | 23.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 399 | 668 | 1220 | 126 | 449 | 70.7 | 65.1 | 7.2 | 35.0 | 31.3 | 1.4 | 1.5 |
| 107843 | 16.3 | 1.6 | 63.4 | 104 | 571 | 76 | > 500 | 27.3 | 0.3 | < 1 | 0.4 | 1.2 | 299 | 673 | 1440 | 148 | 532 | 80.6 | 61.3 | 6.1 | 28.9 | 8.1 | 1.6 | 1.3 |
| 107844 | 12.9 | 4.7 | 76.5 | 74.4 | 739 | 96 | 145 | 32.6 | 0.2 | < 1 | < 0.1 | 0.3 | 633 | 683 | 1220 | 118 | 390 | 53.2 | 44.9 | 4.2 | 19.6 | 44.4 | 1.2 | 0.9 |
| 107845 | 12.8 | 5.3 | 81.5 | 76.5 | 264 | 132 | 413 | 82.6 | 0.2 | 10 | 1.2 | 0.7 | 576 | 456 | 1220 | 124 | 460 | 66.8 | 46.9 | 4.6 | 21.1 | 38.8 | 1.5 | 0.9 |
| 107846 | 15.9 | 2.9 | 69.8 | 32.2 | 221 | 183 | 114 | 6.9 | < 0.1 | 2 | 2.9 | 0.2 | 571 | 172 | 331 | 38.9 | 146 | 24.0 | 18.1 | 1.9 | 8.9 | 62.4 | 1.0 | 0.4 |
| 107847 | 13.2 | 1.6 | 15.9 | 10.6 | 212 | 154 | 64.1 | 7.1 | < 0.1 | 1 | 1.4 | 0.2 | 492 | 47.2 | 106 | 12.0 | 46.0 | 8.6 | 7.2 | 0.8 | 3.9 | 111 | 0.8 | 0.2 |
| 107848 | 15.2 | 1.4 | 22.0 | 17.8 | 230 | 175 | 96.9 | 3.1 | < 0.1 | 2 | 1.8 | 0.3 | 537 | 60.3 | 140 | 15.5 | 63.7 | 14.3 | 11.5 | 1.2 | 5.5 | 31.9 | 0.5 | 0.3 |
| 107849 | 15.2 | 0.8 | 33.3 | 13.7 | 241 | 183 | 28.0 | 0.8 | < 0.1 | 1 | 0.4 | 0.1 | 591 | 44.6 | 93.2 | 10.2 | 37.4 | 6.2 | 5.4 | 0.6 | 3.5 | 26.7 | 0.5 | 0.2 |
| 107850 | 13.6 | 2.6 | 54.7 | 13.3 | 302 | 152 | 1.0 | 1.1 | < 0.1 | < 1 | 0.1 | < 0.1 | 526 | 67.4 | 125 | 13.4 | 47.3 | 7.2 | 5.8 | 0.6 | 3.2 | 37.6 | 0.3 | 0.2 |
| 107851 | 15.6 | 2.9 | 76.9 | 14.1 | 317 | 158 | 28.4 | 0.8 | < 0.1 | 1 | 0.4 | 0.2 | 664 | 51.6 | 107 | 11.6 | 41.4 | 6.8 | 5.3 | 0.6 | 3.2 | 18.4 | 0.2 | 0.2 |
| 107852 | 15.9 | 2.6 | 74.2 | 17.9 | 326 | 153 | 46.6 | 1.9 | < 0.1 | 1 | 0.9 | 0.2 | 648 | 66.7 | 135 | 15.5 | 56.8 | 8.8 | 7.2 | 0.8 | 4.2 | 21.0 | 0.3 | 0.2 |
| 107853 | 16.9 | 2.2 | 76.0 | 17.1 | 329 | 167 | 37.3 | 1.1 | < 0.1 | 1 | 0.5 | 0.1 | 644 | 74.8 | 159 | 18.3 | 66.4 | 10.2 | 8.0 | 0.8 | 4.1 | 21.6 | 0.3 | 0.2 |
| 107854 | 18.3 | 2.1 | 76.3 | 21.4 | 373 | 156 | 41.5 | 1.8 | < 0.1 | 1 | 0.2 | 0.1 | 651 | 87.6 | 180 | 22.1 | 80.9 | 12.3 | 9.6 | 1.0 | 4.9 | 36.5 | 0.4 | 0.3 |
| 107855 | 16.7 | 2.5 | 71.5 | 28.0 | 393 | 116 | 167 | 1.4 | < 0.1 | 1 | 1.5 | 0.3 | 637 | 146 | 323 | 35.4 | 129 | 19.3 | 14.6 | 1.5 | 7.3 | 11.4 | 1.0 | 0.4 |
| 107856 | 15.8 | 2.1 | 29.5 | 8.0 | 237 | 153 | 185 | 2.7 | < 0.1 | 1 | 1.2 | 0.4 | 544 | 39.9 | 97.5 | 11.4 | 42.7 | 6.7 | 4.8 | 0.5 | 2.5 | 4.3 | 1.3 | 0.2 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107857 | 15.6 | 2.4 | 42.8 | 17.0 | 307 | 177 | 173 | 2.0 | < 0.1 | 2 | 5.0 | 0.4 | 561 | 87.0 | 222 | 22.3 | 80.7 | 12.1 | 9.0 | 0.9 | 4.5 | 15.5 | 0.4 | 0.2 |
| 107858 | 15.5 | 3.0 | 66.6 | 50.9 | 477 | 90 | 34.3 | 6.4 | < 0.1 | < 1 | 0.1 | < 0.1 | 544 | 362 | 769 | 89.3 | 337 | 49.0 | 32.7 | 3.1 | 13.2 | 35.5 | 1.3 | 0.6 |
| 107859 | 17.1 | 2.7 | 68.7 | 31.7 | 326 | 163 | 90.1 | 12.8 | < 0.1 | 1 | 2.8 | 0.1 | 542 | 167 | 326 | 37.4 | 134 | 20.7 | 16.3 | 1.7 | 8.0 | 40.1 | 0.6 | 0.4 |
| 107860 | 13.8 | 5.1 | 54.3 | 68.4 | 329 | 100 | 50.0 | 24.2 | < 0.1 | < 1 | 0.4 | 0.1 | 550 | 266 | 535 | 53.3 | 190 | 35.0 | 31.8 | 3.7 | 18.4 | 16.2 | 0.7 | 0.9 |
| 107861 | 13.5 | 2.8 | 74.7 | 35.6 | 308 | 132 | 54.3 | 7.5 | < 0.1 | 2 | 1.0 | 0.1 | 601 | 201 | 405 | 47.0 | 172 | 26.8 | 20.6 | 2.1 | 10.1 | 19.9 | 0.6 | 0.4 |
| 107862 | 15.3 | 2.7 | 76.5 | 33.2 | 310 | 143 | 65.6 | 4.2 | < 0.1 | 2 | 8.7 | < 0.1 | 660 | 215 | 406 | 46.2 | 165 | 25.2 | 19.3 | 1.9 | 8.9 | 28.1 | 0.6 | 0.4 |
| 107863 | 13.0 | 1.9 | 68.4 | 19.5 | 279 | 162 | 42.9 | 2.5 | < 0.1 | 1 | 2.9 | 0.1 | 641 | 124 | 247 | 26.8 | 94.5 | 14.1 | 10.5 | 1.1 | 5.1 | 20.7 | 0.4 | 0.3 |
| 107864 | 11.6 | 6.3 | 55.8 | 167 | 535 | 14 | 2.9 | 23.2 | 0.2 | < 1 | < 0.1 | 0.2 | 630 | 893 | 1700 | 192 | 663 | 94.9 | 75.3 | 8.7 | 43.2 | 21.4 | 1.9 | 2.2 |
| 107865 | 13.3 | 3.2 | 64.7 | 35.0 | 303 | 133 | 54.4 | 2.9 | < 0.1 | 2 | 1.3 | 0.2 | 654 | 364 | 674 | 72.4 | 249 | 33.2 | 22.9 | 2.1 | 9.4 | 24.3 | 0.8 | 0.4 |
| 107866 | 16.1 | 2.7 | 3.7 | 16.2 | 321 | 119 | > 500 | 3.5 | 0.2 | 7 | 11.4 | 1.4 | 564 | 345 | 681 | 70.8 | 235 | 25.1 | 17.0 | 1.4 | 6.1 | 11.8 | 1.8 | 0.3 |
| 107867 | 12.2 | 2.4 | 18.0 | 36.3 | 333 | 106 | 91.3 | 3.5 | 0.1 | < 1 | 0.2 | 0.2 | 534 | 183 | 382 | 45.8 | 172 | 26.3 | 20.5 | 2.2 | 10.7 | 14.8 | 0.8 | 0.5 |
| 107868 | 16.8 | 1.2 | 22.6 | 14.9 | 142 | 74 | 114 | 7.2 | 0.1 | 5 | 1.5 | 0.7 | 191 | 123 | 241 | 23.8 | 77.4 | 9.7 | 7.3 | 0.8 | 3.8 | 7.4 | 0.3 | 0.2 |
| 107869 | 12.4 | 1.8 | 61.8 | 20.0 | 323 | 135 | 58.1 | 5.9 | < 0.1 | < 1 | 0.2 | 0.1 | 594 | 110 | 220 | 24.2 | 86.5 | 13.1 | 10.4 | 1.1 | 5.4 | 29.6 | 0.4 | 0.3 |
| 107870 | 11.9 | 3.2 | 41.5 | 54.2 | 415 | 45 | 31.3 | 4.9 | 0.1 | < 1 | 0.1 | < 0.1 | 513 | 270 | 487 | 56.5 | 200 | 29.9 | 24.7 | 2.8 | 14.0 | 27.4 | 0.8 | 0.7 |
| 107871 | 10.5 | 2.9 | 68.1 | 34.5 | 521 | 68 | 12.7 | 5.3 | < 0.1 | < 1 | < 0.1 | 0.2 | 596 | 240 | 460 | 49.4 | 172 | 24.6 | 18.5 | 1.9 | 9.3 | 30.2 | 0.6 | 0.5 |
| 107872 | 9.7 | 3.3 | 47.5 | 47.3 | 542 | 84 | 364 | 9.3 | 0.1 | 2 | 0.5 | 0.6 | 594 | 458 | 899 | 96.3 | 339 | 44.8 | 32.3 | 3.1 | 14.1 | 29.2 | 1.3 | 0.6 |
| 107873 | 9.6 | 5.2 | 50.5 | 60.6 | 689 | 66 | 286 | 9.1 | 0.2 | 5 | 0.3 | 0.6 | 561 | 765 | 1410 | 144 | 481 | 60.8 | 42.8 | 3.9 | 17.4 | 33.8 | 1.5 | 0.8 |
| 107874 | 14.0 | 2.5 | 35.3 | 50.3 | 296 | 67 | 23.2 | 8.8 | 0.2 | 7 | 0.6 | < 0.1 | 901 | 374 | 681 | 70.6 | 245 | 38.8 | 31.4 | 3.2 | 14.6 | 153 | 1.0 | 0.7 |
| 107875 | 15.7 | 0.1 | 98.6 | 51.3 | 490 | 59 | 2.4 | 4.3 | 0.2 | < 1 | < 0.1 | < 0.1 | 581 | 466 | 900 | 90.9 | 325 | 47.7 | 38.6 | 3.7 | 16.4 | 15.1 | 1.0 | 0.6 |
| 107876 | 11.8 | 1.4 | 16.6 | 38.5 | 396 | 104 | 160 | 8.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 468 | 343 | 710 | 79.9 | 294 | 41.8 | 29.6 | 2.9 | 13.2 | 38.5 | 1.4 | 0.5 |
| 107877 | 11.9 | 5.4 | 25.5 | 67.6 | 500 | 58 | 80.6 | 7.0 | 0.2 | 1 | 0.5 | 0.2 | 550 | 460 | 918 | 99.8 | 358 | 51.8 | 40.9 | 4.1 | 18.3 | 31.8 | 1.3 | 0.7 |
| 107878 | 13.2 | 2.9 | 52.8 | 61.7 | 643 | 52 | 3.2 | 10.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 645 | 450 | 846 | 89.3 | 314 | 45.2 | 36.6 | 3.6 | 16.9 | 51.1 | 1.1 | 0.8 |
| 107879 | 14.8 | 1.7 | 69.6 | 35.3 | 506 | 57 | 15.8 | 5.3 | < 0.1 | < 1 | 0.1 | 0.2 | 581 | 211 | 406 | 44.0 | 155 | 22.7 | 18.3 | 1.9 | 9.0 | 41.9 | 0.7 | 0.4 |
| 107880 | 16.2 | 2.2 | 69.0 | 31.1 | 380 | 139 | 95.3 | 5.4 | < 0.1 | 2 | 0.6 | 0.2 | 602 | 179 | 355 | 40.0 | 143 | 20.8 | 16.1 | 1.7 | 8.1 | 28.9 | 0.6 | 0.4 |
| 107881 | 22.3 | 2.0 | 69.2 | 16.6 | 286 | 149 | 1.9 | 2.7 | < 0.1 | < 1 | 0.4 | < 0.1 | 538 | 36.2 | 68.4 | 8.5 | 32.1 | 5.8 | 5.2 | 0.7 | 3.6 | 58.7 | 0.7 | 0.2 |
| 107882 | 22.2 | < 0.1 | 15.8 | 20.8 | 135 | 132 | 3.1 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 302 | 42.4 | 94.4 | 11.6 | 46.5 | 8.9 | 8.2 | 1.0 | 5.4 | 94.2 | 0.6 | 0.3 |
| 107883 | 21.3 | < 0.1 | 13.9 | 11.1 | 148 | 203 | 4.1 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 409 | 26.3 | 60.9 | 7.5 | 30.2 | 5.8 | 5.0 | 0.6 | 2.9 | 37.6 | 0.4 | 0.2 |
| 107884 | 18.5 | 0.4 | 42.7 | 15.9 | 213 | 184 | 9.3 | 0.4 | < 0.1 | < 1 | 0.1 | < 0.1 | 483 | 58.5 | 110 | 11.8 | 42.4 | 7.0 | 6.0 | 0.7 | 4.0 | 19.8 | 0.6 | 0.3 |
| 107885 | 23.2 | 0.4 | 1.7 | 10.3 | 48.8 | 275 | 27.7 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 118 | 19.4 | 51.5 | 5.9 | 23.2 | 4.2 | 3.7 | 0.5 | 2.9 | 51.0 | 0.9 | 0.2 |
| 107886 | 15.8 | < 0.1 | 16.3 | 14.0 | 183 | 123 | 31.1 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 489 | 108 | 199 | 20.2 | 68.8 | 9.2 | 7.4 | 0.8 | 3.8 | 43.2 | 1.0 | 0.2 |
| 107887 | 12.7 | < 0.1 | 19.8 | 41.6 | 842 | 113 | 3.4 | 0.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 566 | 466 | 778 | 75.5 | 242 | 30.0 | 24.9 | 2.5 | 11.4 | 67.9 | 0.9 | 0.5 |
| 107888 | 17.4 | 0.2 | 56.5 | 17.3 | 198 | 172 | 2.1 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 428 | 66.2 | 130 | 15.1 | 58.3 | 10.4 | 8.5 | 0.9 | 4.4 | 71.8 | 0.4 | 0.2 |
| 107889 | 16.7 | 1.1 | 60.0 | 25.9 | 208 | 153 | 1.0 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 540 | 99.4 | 181 | 21.9 | 82.0 | 14.3 | 11.6 | 1.3 | 6.5 | 99.0 | 0.4 | 0.3 |
| 107890 | 18.0 | < 0.1 | 25.9 | 19.5 | 118 | 105 | 4.8 | 2.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 296 | 85.5 | 195 | 25.5 | 101 | 15.3 | 11.0 | 1.1 | 5.2 | 40.6 | 0.7 | 0.3 |
| 107891 | 17.4 | 10.3 | 55.8 | 65.0 | 253 | 150 | 40.0 | 43.3 | 0.2 | 5 | < 0.1 | < 0.1 | 496 | 286 | 597 | 68.2 | 258 | 42.6 | 31.6 | 3.3 | 15.9 | 33.4 | 1.0 | 0.7 |
| 107892 | 10.7 | 9.0 | 51.8 | 194 | 784 | 52 | 25.8 | 54.1 | 0.3 | 6 | 0.4 | 0.1 | 409 | 1170 | 2280 | 261 | 935 | > 100 | 115 | 11.5 | 51.2 | 58.0 | 3.0 | 2.0 |
| 107893 | 15.8 | 12.3 | 72.7 | 172 | 528 | 72 | 78.6 | 23.6 | 0.4 | 13 | 0.5 | 0.3 | 423 | 967 | 2310 | 270 | 1050 | > 100 | 121 | 11.2 | 49.3 | 39.4 | 3.3 | 1.9 |
| 107894 | 15.6 | 2.5 | 45.7 | 82.2 | 616 | 43 | 64.8 | 11.2 | 0.2 | < 1 | < 0.1 | 0.2 | 456 | 460 | 908 | 93.9 | 332 | 51.1 | 43.0 | 4.5 | 22.0 | 13.8 | 1.1 | 1.0 |
| 107895 | 15.5 | 1.6 | 7.3 | 13.6 | 203 | 174 | 158 | 14.6 | < 0.1 | 3 | 0.2 | 0.3 | 437 | 44.7 | 107 | 13.5 | 53.8 | 10.5 | 7.7 | 0.9 | 4.2 | 15.7 | 1.2 | 0.2 |
| 107896 | 12.9 | 2.2 | 28.1 | 38.2 | 301 | 140 | 174 | 16.3 | 0.1 | 4 | 0.4 | 0.3 | 482 | 147 | 335 | 44.2 | 192 | 39.1 | 26.8 | 2.6 | 11.7 | 86.5 | 1.0 | 0.5 |
| 107897 | 17.1 | 0.6 | 66.4 | 24.0 | 229 | 169 | 3.0 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 531 | 141 | 247 | 27.1 | 96.1 | 14.8 | 11.8 | 1.3 | 6.1 | 93.8 | 0.4 | 0.3 |
| 107898 | 16.1 | 1.4 | 64.1 | 14.5 | 301 | 182 | 5.4 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 604 | 46.8 | 98.5 | 10.7 | 39.9 | 7.1 | 5.8 | 0.7 | 3.4 | 23.9 | 0.2 | 0.2 |
| 107899 | 23.4 | < 0.1 | 25.1 | 21.2 | 99.4 | 38 | 1.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 275 | 31.4 | 69.7 | 8.8 | 35.8 | 7.1 | 6.8 | 0.9 | 5.1 | 77.2 | 0.4 | 0.3 |
| 107900 | 24.7 | < 0.1 | 45.8 | 18.7 | 158 | 63 | 1.4 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 402 | 36.2 | 76.2 | 9.7 | 39.3 | 8.0 | 7.2 | 0.9 | 4.4 | 118 | 0.3 | 0.3 |
| 107901 | 17.8 | < 0.1 | 81.8 | 24.6 | 219 | 93 | 0.4 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 571 | 140 | 264 | 28.0 | 99.2 | 15.1 | 12.4 | 1.4 | 6.8 | 86.5 | 0.6 | 0.3 |
| 107902 | 21.5 | < 0.1 | 22.7 | 18.9 | 119 | 101 | 0.8 | 0.3 | < 0.1 | < 1 | < 0.1 | < 0.1 | 363 | 48.0 | 94.7 | 11.2 | 42.5 | 7.4 | 6.7 | 0.8 | 4.6 | 64.5 | 0.3 | 0.3 |
| 107903 | 19.4 | < 0.1 | 19.4 | 17.1 | 134 | 110 | 0.8 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 275 | 64.6 | 130 | 15.3 | 58.1 | 10.0 | 8.3 | 0.9 | 4.5 | 51.2 | 0.4 | 0.2 |
| 107904 | 19.9 | < 0.1 | 33.0 | 15.5 | 190 | 90 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 379 | 45.1 | 91.6 | 10.7 | 41.5 | 7.4 | 6.5 | 0.7 | 3.8 | 60.0 | 0.3 | 0.2 |
| 107905 | 22.1 | < 0.1 | 0.9 | 4.7 | 138 | 186 | 46.5 | 2.4 | < 0.1 | 2 | < 0.1 | 0.1 | 352 | 9.9 | 28.2 | 4.0 | 17.7 | 3.7 | 3.2 | 0.4 | 1.9 | 83.9 | 1.1 | 0.1 |
| 107906 | 18.1 | 0.8 | 27.2 | 13.3 | 201 | 198 | 34.0 | 0.9 | < 0.1 | 1 | 0.1 | 0.1 | 497 | 36.9 | 78.6 | 9.7 | 37.2 | 6.6 | 5.5 | 0.7 | 3.4 | 58.3 | 0.7 | 0.2 |
| 107907 | 15.2 | 2.3 | 51.5 | 21.8 | 237 | 199 | 11.3 | 8.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 524 | 88.4 | 192 | 22.9 | 87.9 | 15.4 | 11.4 | 1.2 | 5.6 | 53.3 | 0.4 | 0.3 |
| 107908 | 15.7 | 1.9 | 67.2 | 30.3 | 212 | 162 | 31.3 | 15.8 | 0.1 | 2 | < 0.1 | 0.1 | 436 | 239 | 445 | 48.9 | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107909 | 18.1 | 4.2 | 86.6 | 20.9 | 156 | 126 | 4.2 | 6.9 | 0.1 | < 1 | < 0.1 | < 0.1 | 498 | 211 | 677 | 76.6 | 267 | 33.0 | 19.7 | 1.6 | 6.6 | 38.3 | 1.0 | 0.3 |
| 107910 | 11.2 | 2.1 | 33.9 | 127 | 246 | 148 | 52.6 | 99.8 | 0.2 | 4 | 0.3 | < 0.1 | 1040 | 617 | 1310 | 144 | 541 | 90.2 | 69.0 | 7.6 | 37.0 | 27.9 | 1.7 | 1.4 |
| 107911 | 13.1 | 5.2 | 42.2 | 92.3 | 380 | 43 | 122 | 9.6 | 0.2 | 2 | 0.2 | 0.3 | 539 | 518 | 829 | 104 | 373 | 56.3 | 43.0 | 4.6 | 22.4 | 18.4 | 1.4 | 1.0 |
| 107912 | 9.8 | 6.3 | 32.2 | 77.0 | 561 | 12 | 44.0 | 34.8 | 0.2 | 2 | < 0.1 | 0.1 | 410 | 596 | 970 | 112 | 381 | 50.5 | 38.5 | 4.0 | 19.6 | 30.6 | 1.1 | 0.9 |
| 107913 | 14.9 | 2.2 | 44.5 | 73.6 | 415 | 16 | 53.6 | 14.8 | 0.2 | < 1 | < 0.1 | < 0.1 | 569 | 591 | 1010 | 104 | 354 | 50.5 | 39.3 | 4.1 | 19.8 | 20.7 | 1.2 | 0.9 |
| 107914 | 16.7 | 3.0 | 71.6 | 48.7 | 365 | 23 | 30.3 | 6.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 679 | 1140 | 1650 | 146 | 433 | 48.9 | 37.9 | 3.2 | 13.8 | 19.2 | 1.3 | 0.6 |
| 107915 | 15.6 | 2.3 | 71.5 | 44.1 | 524 | 38 | 31.0 | 5.6 | 0.1 | < 1 | < 0.1 | 0.1 | 580 | 343 | 647 | 68.5 | 239 | 34.4 | 25.7 | 2.5 | 11.9 | 48.3 | 0.9 | 0.5 |
| 107916 | 16.1 | 1.2 | 58.3 | 56.8 | 459 | 21 | 2.9 | 3.7 | 0.2 | < 1 | < 0.1 | < 0.1 | 633 | 405 | 770 | 82.9 | 292 | 41.7 | 32.2 | 3.3 | 15.5 | 39.6 | 1.0 | 0.7 |
| 107917 | 18.1 | 1.6 | 39.9 | 47.5 | 426 | 12 | 1.6 | 14.2 | 0.2 | < 1 | < 0.1 | < 0.1 | 424 | 850 | 1630 | 176 | 574 | 64.8 | 43.9 | 3.4 | 13.8 | 39.5 | 1.8 | 0.6 |
| 107918 | 4.5 | 2.6 | 17.7 | 47.4 | 775 | < 1 | 12.8 | 5.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 251 | 288 | 605 | 70.1 | 261 | 39.2 | 31.3 | 3.1 | 14.1 | 17.4 | 0.8 | 0.5 |
| 107919 | 9.1 | 1.4 | 41.2 | 24.7 | 559 | 3 | 1.3 | 4.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 440 | 135 | 264 | 30.9 | 112 | 16.5 | 13.0 | 1.3 | 6.3 | 36.8 | 0.4 | 0.3 |
| 107920 | 18.4 | 1.5 | 63.5 | 40.1 | 503 | 37 | 95.5 | 5.4 | 0.1 | < 1 | < 0.1 | 0.2 | 519 | 350 | 644 | 67.7 | 233 | 31.9 | 24.2 | 2.3 | 10.9 | 32.3 | 1.1 | 0.5 |
| 107921 | 19.2 | 1.7 | 19.5 | 41.2 | 552 | 80 | 53.9 | 3.8 | 0.2 | < 1 | < 0.1 | 0.1 | 407 | 297 | 587 | 65.5 | 229 | 32.5 | 24.9 | 2.5 | 12.1 | 62.5 | 1.2 | 0.5 |
| 107922 | 12.9 | 1.3 | 38.7 | 32.2 | 647 | 12 | 47.7 | 4.6 | 0.1 | < 1 | < 0.1 | 0.2 | 350 | 436 | 694 | 65.8 | 205 | 23.2 | 20.7 | 1.8 | 8.6 | 29.4 | 0.8 | 0.4 |
| 107923 | 20.1 | 0.9 | 66.2 | 31.9 | 453 | 22 | 10.9 | 14.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 524 | 169 | 332 | 37.4 | 135 | 21.0 | 16.3 | 1.7 | 8.2 | 53.0 | 0.7 | 0.4 |
| 107924 | 18.0 | 1.8 | 56.3 | 41.9 | 407 | 16 | 17.6 | 14.6 | 0.2 | 1 | < 0.1 | < 0.1 | 476 | 366 | 760 | 82.7 | 302 | 43.3 | 29.8 | 2.8 | 12.6 | 20.2 | 1.0 | 0.6 |
| 107925 | 22.8 | 2.4 | 51.7 | 75.0 | 405 | 94 | 210 | 8.1 | 0.1 | 2 | < 0.1 | 0.3 | 564 | 438 | 896 | 105 | 382 | 55.6 | 41.5 | 4.3 | 20.6 | 18.2 | 1.9 | 1.0 |
| 107926 | 17.5 | 2.6 | 63.4 | 40.9 | 401 | 42 | 46.6 | 4.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 554 | 305 | 570 | 63.7 | 223 | 31.1 | 22.6 | 2.2 | 10.5 | 33.5 | 1.0 | 0.5 |
| 107927 | 20.4 | 4.8 | 66.6 | 69.7 | 471 | 31 | 104 | 9.2 | 0.1 | < 1 | < 0.1 | 0.2 | 636 | 409 | 808 | 90.4 | 322 | 47.6 | 36.4 | 3.8 | 18.5 | 23.2 | 1.2 | 0.9 |
| 107928 | 20.4 | 2.3 | 72.7 | 55.0 | 335 | 144 | 128 | 6.0 | 0.1 | 2 | < 0.1 | 0.2 | 617 | 504 | 943 | 102 | 344 | 47.9 | 34.2 | 3.4 | 15.0 | 28.1 | 1.3 | 0.6 |
| 107929 | 14.9 | 6.2 | 25.4 | 331 | > 1000 | 13 | 46.2 | 8.4 | 0.4 | 2 | < 0.1 | 0.1 | 704 | 1380 | 2780 | 323 | 1170 | > 100 | 163 | 17.6 | 84.8 | 21.3 | 3.9 | 3.9 |
| 107930 | 21.2 | 2.0 | 72.4 | 57.2 | 358 | 107 | 107 | 8.5 | 0.2 | 3 | < 0.1 | 0.2 | 507 | 788 | 1500 | 166 | 577 | 87.7 | 65.6 | 5.8 | 21.4 | 19.4 | 2.3 | 0.5 |
| 107931 | 22.7 | 1.4 | 12.9 | 23.3 | 306 | 105 | 14.2 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 513 | 195 | 428 | 45.2 | 157 | 22.7 | 17.7 | 1.8 | 7.9 | 22.6 | 0.8 | 0.3 |
| 107932 | 20.9 | 2.9 | 57.9 | 37.2 | 387 | 101 | 80.7 | 9.5 | < 0.1 | < 1 | < 0.1 | 0.1 | 568 | 298 | 580 | 68.1 | 243 | 35.4 | 24.8 | 2.3 | 10.1 | 21.6 | 1.3 | 0.4 |
| 107933 | 21.5 | 1.1 | 59.4 | 12.9 | 257 | 102 | 7.2 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 530 | 177 | 328 | 34.4 | 116 | 15.5 | 10.0 | 0.8 | 3.5 | 11.3 | 0.5 | 0.2 |
| 107934 | 18.9 | 1.5 | 64.3 | 11.3 | 313 | 69 | 7.6 | 3.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 620 | 34.8 | 71.4 | 8.0 | 29.3 | 5.0 | 4.0 | 0.5 | 2.5 | 11.6 | 0.2 | 0.2 |
| 107935 | 18.6 | 2.3 | 62.3 | 16.3 | 308 | 164 | 15.8 | 1.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 619 | 73.0 | 186 | 19.9 | 71.9 | 10.3 | 7.5 | 0.8 | 3.9 | 17.0 | 0.4 | 0.2 |
| 107936 | 19.9 | 1.8 | 70.5 | 13.4 | 319 | 108 | 6.6 | 0.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 617 | 42.4 | 89.8 | 10.2 | 37.2 | 6.1 | 4.9 | 0.6 | 2.9 | 9.1 | 0.3 | 0.2 |
| 107937 | 22.8 | 1.5 | 75.5 | 11.6 | 327 | 169 | 8.1 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 632 | 29.8 | 64.5 | 6.8 | 24.8 | 4.3 | 3.6 | 0.4 | 2.4 | 18.0 | 0.5 | 0.2 |
| 107938 | 22.1 | 1.0 | 74.8 | 15.9 | 381 | 162 | 44.4 | 6.8 | < 0.1 | 1 | < 0.1 | 0.1 | 597 | 51.2 | 103 | 12.3 | 45.3 | 7.3 | 6.0 | 0.7 | 3.7 | 12.5 | 0.3 | 0.2 |
| 107939 | 20.6 | 1.5 | 72.9 | 15.4 | 343 | 162 | 32.2 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 624 | 51.2 | 110 | 11.6 | 42.2 | 7.0 | 5.6 | 0.6 | 3.4 | 22.6 | 0.4 | 0.2 |
| 107940 | 17.5 | 1.6 | 67.1 | 12.8 | 323 | 148 | 19.0 | 4.3 | < 0.1 | < 1 | < 0.1 | 0.1 | 609 | 60.2 | 126 | 13.0 | 45.7 | 7.0 | 5.4 | 0.6 | 3.0 | 8.4 | 0.4 | 0.2 |
| 107941 | 15.6 | 1.9 | 28.2 | 10.5 | 275 | 170 | 41.7 | 0.8 | < 0.1 | 1 | < 0.1 | < 0.1 | 597 | 31.7 | 70.0 | 7.8 | 28.7 | 5.0 | 4.1 | 0.5 | 2.6 | 13.0 | 0.2 | 0.2 |
| 107942 | 15.9 | 4.7 | 64.6 | 60.4 | 581 | 16 | 57.1 | 9.9 | 0.2 | < 1 | < 0.1 | 0.2 | 503 | 494 | 918 | 96.6 | 333 | 45.2 | 34.8 | 3.4 | 15.6 | 48.7 | 1.2 | 0.7 |
| 107943 | 17.7 | 2.1 | 69.3 | 48.8 | 416 | 67 | 75.0 | 5.2 | 0.1 | < 1 | < 0.1 | 0.1 | 533 | 270 | 514 | 56.3 | 193 | 27.4 | 22.6 | 2.5 | 12.2 | 55.5 | 1.2 | 0.6 |
| 107944 | 18.1 | 1.7 | 83.2 | 33.6 | 296 | 88 | 100.0 | 3.7 | < 0.1 | 1 | < 0.1 | 0.2 | 576 | 183 | 343 | 39.0 | 138 | 20.8 | 16.2 | 1.7 | 8.7 | 39.1 | 1.1 | 0.4 |
| 107945 | 19.1 | 1.9 | 89.3 | 48.0 | 443 | 28 | 52.5 | 8.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 601 | 319 | 630 | 71.3 | 260 | 37.1 | 27.3 | 2.7 | 12.7 | 28.1 | 0.9 | 0.6 |
| 107946 | 17.2 | 4.4 | 68.0 | 58.5 | 472 | 21 | 33.1 | 6.1 | 0.1 | < 1 | 1.3 | 0.1 | 523 | 415 | 843 | 92.9 | 332 | 45.9 | 33.2 | 3.2 | 14.9 | 23.1 | 1.1 | 0.7 |
| 107947 | 9.9 | 8.5 | 38.9 | 184 | 666 | 7 | 72.2 | 12.5 | 0.3 | 9 | 2.4 | 0.3 | 696 | 3570 | 6620 | 693 | 2230 | > 100 | 179 | 13.6 | 51.7 | 31.3 | 6.4 | 1.6 |
| 107948 | 19.8 | 2.7 | 62.8 | 64.6 | 469 | 22 | 49.4 | 6.2 | 0.2 | < 1 | 0.1 | 0.2 | 487 | 467 | 936 | 103 | 361 | 51.2 | 39.3 | 3.9 | 17.9 | 16.1 | 1.3 | 0.8 |
| 107949 | 21.3 | 1.7 | 8.3 | 16.9 | 172 | 98 | > 500 | 24.9 | < 0.1 | 3 | 2.0 | 0.9 | 356 | 171 | 371 | 42.6 | 153 | 23.3 | 16.3 | 1.5 | 6.4 | 21.2 | 1.3 | 0.2 |
| 107950 | 20.4 | 2.2 | 60.2 | 16.3 | 230 | 145 | 37.3 | 5.8 | < 0.1 | 2 | 0.9 | 0.1 | 515 | 182 | 363 | 39.3 | 137 | 19.3 | 13.3 | 1.2 | 4.9 | 15.8 | 0.6 | 0.2 |
| 107951 | 22.2 | 1.4 | 62.1 | 23.8 | 324 | 26 | 69.2 | 10.5 | < 0.1 | < 1 | 1.1 | 0.2 | 555 | 203 | 416 | 45.7 | 161 | 23.5 | 16.9 | 1.6 | 7.2 | 12.6 | 0.7 | 0.3 |
| 107952 | 18.1 | 3.8 | 76.6 | 43.1 | 380 | 149 | 115 | 7.9 | < 0.1 | 2 | 0.8 | 0.2 | 638 | 284 | 551 | 60.4 | 213 | 32.5 | 25.1 | 2.5 | 11.5 | 54.8 | 0.8 | 0.5 |
| 107953 | 17.5 | < 0.1 | 48.0 | 21.2 | 219 | 31 | 2.4 | 1.9 | 0.2 | < 1 | < 0.1 | < 0.1 | 643 | 166 | 325 | 35.8 | 131 | 20.6 | 15.0 | 1.5 | 6.3 | 51.2 | 0.6 | 0.3 |
| 107954 | 17.4 | 2.8 | 78.1 | 28.8 | 392 | 72 | 58.4 | 2.1 | < 0.1 | 1 | 1.5 | 0.1 | 729 | 134 | 262 | 33.0 | 121 | 19.7 | 14.6 | 1.6 | 7.3 | 17.7 | 0.5 | 0.4 |
| 107955 | 17.0 | 2.1 | 62.4 | 41.1 | 365 | 71 | 97.0 | 2.8 | < 0.1 | 1 | 0.2 | 0.2 | 649 | 341 | 693 | 80.5 | 287 | 40.0 | 26.8 | 2.5 | 11.1 | 13.9 | 1.3 | 0.5 |
| 107956 | 17.4 | 2.2 | 62.3 | 26.1 | 353 | 121 | 119 | 2.8 | < 0.1 | 1 | 0.1 | 0.2 | 607 | 135 | 363 | 33.4 | 121 | 18.4 | 13.7 | 1.5 | 7.0 | 9.5 | 0.6 | 0.3 |
| 107957 | 21.0 | 2.6 | 61.8 | 42.1 | 419 | 52 | 185 | 6.2 | < 0.1 | 1 | 0.3 | 0.3 | 572 | 264 | 539 | 62.1 | 225 | 32.1 | 24.9 | 2.5 | 11.7 | 54.6 | 1.2 | 0.5 |
| 107958 | 19.2 | 1.6 | 54.0 | 52.4 | 524 | 13 | 21.1 | 4.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 581 | 255 | 558 | 65.5 | 242 | 36.0 | 27.5 | 2.9 | 14.2 | 21.0 | 1.0 | 0.6 |
| 107959 | 17.5 | 1.4 | 43.1 | 31.5 | 422 | 85 | 27.9 | 4.6 | < 0.1 | < 1 | < 0.1 | 0.1 | 519 | 194 | 399 | 45.5 | 166 | 24.2 | 18.4 | 1.8 | 8.3 | 33.8 | 0.8 | 0.4 |
| 107960 | 17.0 | 1.8 | 60.1 | 16.5 | 354 | 184 | 43.5 | 2.6 | < 0.1 | < 1 | 0.2 | 0.1 | 593 | 61.3 | 131 | 14.3 | 52. | | | | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 107961 | 16.2 | 1.7 | 56.8 | 13.1 | 296 | 53 | 26.3 | 1.2 | < 0.1 | < 1 | 0.7 | < 0.1 | 606 | 49.3 | 104 | 11.7 | 42.7 | 6.9 | 5.3 | 0.6 | 3.1 | 12.3 | 0.3 | 0.2 |
| 107962 | 16.4 | 2.4 | 72.2 | 30.6 | 421 | 39 | 59.4 | 3.6 | < 0.1 | < 1 | < 0.1 | 0.2 | 686 | 160 | 320 | 37.3 | 133 | 19.4 | 14.3 | 1.5 | 7.5 | 25.8 | 0.9 | 0.4 |
| 107963 | 13.2 | 4.0 | 62.1 | 69.5 | 580 | 25 | 66.0 | 24.0 | 0.1 | < 1 | 0.2 | 0.2 | 629 | 375 | 761 | 90.5 | 329 | 47.8 | 35.6 | 3.8 | 18.0 | 30.4 | 1.1 | 0.8 |
| 107964 | 17.0 | 2.4 | 65.7 | 45.7 | 445 | 61 | 111 | 10.7 | < 0.1 | 1 | 1.1 | 0.2 | 695 | 261 | 495 | 62.5 | 225 | 33.1 | 24.2 | 2.5 | 11.4 | 62.8 | 1.1 | 0.5 |
| 107965 | 17.7 | 1.8 | 58.7 | 33.7 | 365 | 4 | 7.6 | 1.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 574 | 241 | 529 | 59.2 | 215 | 31.2 | 22.2 | 2.1 | 9.6 | 10.8 | 0.7 | 0.4 |
| 107966 | 21.2 | 1.1 | 77.0 | 19.3 | 319 | 169 | 87.6 | 5.0 | < 0.1 | 2 | 0.4 | 0.2 | 567 | 85.5 | 185 | 21.1 | 77.0 | 12.3 | 9.3 | 1.0 | 4.9 | 7.8 | 0.6 | 0.3 |
| 107967 | 19.6 | 1.7 | 77.9 | 14.4 | 314 | 142 | 63.7 | 2.7 | < 0.1 | 1 | 0.2 | 0.1 | 626 | 71.7 | 150 | 16.3 | 58.7 | 9.2 | 6.9 | 0.7 | 3.5 | 13.0 | 0.4 | 0.2 |
| 107968 | 15.6 | 2.2 | 63.0 | 12.7 | 287 | 141 | 30.9 | 1.6 | < 0.1 | < 1 | 1.5 | < 0.1 | 569 | 57.3 | 122 | 13.6 | 49.2 | 7.8 | 5.9 | 0.6 | 3.1 | 9.7 | 0.4 | 0.2 |
| 107969 | 16.6 | 2.5 | 64.5 | 16.7 | 294 | 94 | 40.2 | 3.4 | < 0.1 | 1 | 1.3 | < 0.1 | 591 | 91.1 | 200 | 22.3 | 80.5 | 12.4 | 9.0 | 0.9 | 4.4 | 13.5 | 0.5 | 0.2 |
| 107970 | 17.1 | 2.8 | 24.2 | 42.1 | 474 | 117 | 50.6 | 6.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 581 | 306 | 613 | 68.5 | 242 | 35.7 | 27.5 | 2.8 | 12.3 | 44.2 | 1.0 | 0.5 |
| 107971 | 14.7 | 1.8 | 52.9 | 51.4 | 412 | 8 | 12.8 | 4.1 | 0.1 | < 1 | < 0.1 | < 0.1 | 675 | 323 | 616 | 69.8 | 244 | 35.5 | 28.1 | 2.8 | 12.9 | 35.4 | 1.0 | 0.6 |
| 107972 | 41.1 | 0.5 | 37.5 | 42.7 | 269 | 8 | 2.7 | 0.4 | 0.2 | < 1 | < 0.1 | < 0.1 | 433 | 216 | 460 | 50.9 | 184 | 26.0 | 19.6 | 2.0 | 9.8 | 21.2 | 0.7 | 0.6 |
| 107973 | 4.7 | 17.2 | 7.4 | 276 | > 1000 | 3 | 6.0 | 30.3 | 0.5 | < 1 | < 0.1 | 0.3 | 372 | 2440 | 5230 | 587 | 2070 | > 100 | 205 | 19.5 | 85.8 | 17.7 | 5.7 | 3.0 |
| 107974 | 11.6 | 3.3 | 28.2 | 76.7 | 542 | 7 | 4.2 | 9.6 | 0.2 | < 1 | < 0.1 | < 0.1 | 623 | 647 | 1280 | 136 | 463 | 61.7 | 48.2 | 4.5 | 20.1 | 23.4 | 1.3 | 1.0 |
| 107975 | 16.9 | 4.1 | 59.0 | 94.9 | 497 | 24 | 54.7 | 23.2 | 0.2 | 1 | 0.1 | 0.2 | 424 | 779 | 1710 | 182 | 639 | 87.7 | 64.2 | 6.0 | 26.7 | 23.3 | 1.9 | 1.2 |
| 106801 | 16.6 | 3.0 | 75.7 | 51.8 | 401 | 103 | 91.1 | 4.7 | 0.1 | 2 | 0.2 | 0.1 | 607 | 377 | 706 | 75.5 | 261 | 36.5 | 27.7 | 2.8 | 13.1 | 40.9 | 0.8 | 0.6 |
| 106802 | 22.7 | 5.8 | 63.5 | 70.5 | 482 | 52 | 122 | 13.0 | 0.2 | 4 | 0.9 | 0.2 | 518 | 608 | 1170 | 120 | 425 | 58.9 | 45.9 | 4.3 | 19.3 | 24.7 | 1.5 | 0.8 |
| 106803 | 23.5 | 4.0 | 63.9 | 50.4 | 486 | 20 | 46.5 | 18.8 | 0.2 | < 1 | < 0.1 | 0.2 | 786 | 568 | 1060 | 108 | 368 | 48.2 | 37.1 | 3.3 | 14.1 | 27.8 | 1.3 | 0.6 |
| 106804 | 9.8 | 6.7 | 32.3 | 134 | 632 | 115 | > 500 | 117 | 0.3 | 4 | 1.5 | 1.3 | 492 | 2360 | 4110 | 377 | 1060 | > 100 | 99.4 | 8.4 | 36.9 | 16.6 | 3.3 | 1.5 |
| 106805 | 15.7 | 4.6 | 30.4 | 164 | 854 | 2 | 2.9 | 19.5 | 0.2 | < 1 | < 0.1 | < 0.1 | 385 | 412 | 811 | 89.1 | 335 | 60.5 | 54.4 | 6.5 | 34.2 | 32.7 | 1.1 | 2.0 |
| 106806 | 16.3 | 4.2 | 69.2 | 47.4 | 526 | 48 | 5.8 | 3.9 | 0.1 | 2 | 6.0 | 0.1 | 508 | 337 | 633 | 67.3 | 233 | 33.4 | 25.6 | 2.4 | 11.2 | 77.0 | 0.9 | 0.5 |
| 106807 | 13.9 | 2.6 | 72.9 | 53.6 | 448 | 54 | 42.8 | 8.0 | 0.1 | 2 | 6.9 | 0.1 | 550 | 350 | 735 | 83.1 | 301 | 43.7 | 30.7 | 2.8 | 12.8 | 51.2 | 1.1 | 0.6 |
| 106808 | 20.6 | 0.2 | 68.4 | 21.2 | 220 | 44 | 0.8 | 0.4 | < 0.1 | < 1 | 0.9 | < 0.1 | 524 | 95.6 | 198 | 22.5 | 85.6 | 15.2 | 11.1 | 1.1 | 5.2 | 29.8 | 0.5 | 0.3 |
| 106809 | 26.2 | < 0.1 | 45.5 | 19.7 | 211 | 58 | 0.4 | 0.4 | < 0.1 | < 1 | 5.6 | < 0.1 | 762 | 59.5 | 118 | 14.0 | 52.7 | 9.3 | 7.9 | 0.9 | 4.5 | 64.8 | 0.4 | 0.3 |
| 106810 | 23.0 | < 0.1 | 49.2 | 21.0 | 212 | 69 | 0.3 | 0.1 | < 0.1 | < 1 | 1.5 | < 0.1 | 472 | 66.1 | 144 | 16.4 | 63.9 | 11.3 | 9.4 | 1.1 | 5.1 | 52.4 | 0.4 | 0.3 |
| 106811 | 21.1 | < 0.1 | 19.3 | 18.8 | 229 | 72 | 0.4 | 0.3 | < 0.1 | < 1 | 5.4 | < 0.1 | 413 | 160 | 291 | 30.0 | 99.7 | 14.3 | 12.0 | 1.1 | 4.9 | 90.9 | 0.5 | 0.2 |
| 106812 | 22.2 | < 0.1 | 15.3 | 30.7 | 165 | 44 | < 0.1 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 539 | 80.9 | 155 | 19.3 | 73.6 | 12.5 | 10.3 | 1.2 | 6.8 | 145 | 0.4 | 0.4 |
| 106813 | 23.1 | < 0.1 | 3.3 | 9.8 | 125 | 180 | 15.1 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 325 | 21.1 | 46.4 | 5.8 | 22.8 | 4.3 | 3.7 | 0.5 | 2.3 | 50.9 | 0.6 | 0.2 |
| 106814 | 23.2 | < 0.1 | 35.1 | 15.7 | 174 | 108 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 403 | 55.1 | 115 | 11.1 | 38.9 | 5.9 | 5.1 | 0.6 | 3.4 | 85.4 | 0.3 | 0.2 |
| 106815 | 27.4 | < 0.1 | 69.2 | 22.7 | 161 | 16 | 0.1 | 0.1 | < 0.1 | < 1 | 0.2 | < 0.1 | 347 | 143 | 240 | 25.9 | 89.9 | 14.2 | 11.7 | 1.2 | 5.7 | 134 | 0.4 | 0.3 |
| 106816 | 23.2 | < 0.1 | 54.8 | 18.2 | 290 | 38 | < 0.1 | < 0.1 | < 0.1 | < 1 | 0.4 | < 0.1 | 515 | 49.6 | 96.9 | 11.6 | 43.7 | 7.8 | 6.9 | 0.8 | 4.1 | 84.3 | 0.3 | 0.2 |
| 106817 | 22.5 | < 0.1 | 71.6 | 33.9 | 240 | 19 | 0.4 | 0.4 | < 0.1 | < 1 | 0.3 | < 0.1 | 482 | 176 | 369 | 40.3 | 149 | 24.4 | 17.6 | 1.8 | 8.2 | 66.5 | 0.7 | 0.4 |
| 106818 | 26.8 | < 0.1 | 65.2 | 13.9 | 92.2 | 35 | 0.4 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 435 | 51.7 | 112 | 12.3 | 46.6 | 7.8 | 6.5 | 0.7 | 3.5 | 47.2 | 0.3 | 0.2 |
| 106819 | 19.0 | < 0.1 | 45.9 | 23.7 | 191 | 46 | 0.4 | 0.4 | < 0.1 | < 1 | 0.2 | < 0.1 | 340 | 134 | 281 | 31.4 | 115 | 17.9 | 13.0 | 1.3 | 6.1 | 52.3 | 0.5 | 0.3 |
| 106820 | 24.0 | < 0.1 | 45.1 | 23.6 | 154 | 35 | 0.4 | 0.3 | 0.1 | < 1 | 0.7 | < 0.1 | 249 | 126 | 280 | 30.0 | 108 | 16.6 | 12.3 | 1.3 | 6.0 | 62.8 | 0.5 | 0.3 |
| 106821 | 17.1 | 2.3 | 71.9 | 62.8 | 437 | 108 | 84.0 | 12.1 | 0.1 | 3 | 0.2 | 0.2 | 507 | 420 | 789 | 84.3 | 297 | 43.9 | 33.3 | 3.3 | 15.0 | 68.3 | 1.2 | 0.7 |
| 106822 | 18.7 | 3.2 | 41.9 | 73.8 | 277 | 60 | 2.8 | 3.7 | 0.2 | 2 | 0.1 | < 0.1 | 519 | 382 | 695 | 78.3 | 281 | 43.8 | 35.8 | 3.8 | 18.6 | 59.5 | 1.1 | 0.9 |
| 106823 | 15.5 | 2.6 | 28.8 | 43.6 | 554 | 124 | 174 | 8.2 | 0.1 | 2 | 2.5 | 0.2 | 497 | 284 | 551 | 61.7 | 216 | 30.8 | 23.2 | 2.4 | 11.1 | 40.8 | 1.4 | 0.5 |
| 106824 | 20.3 | 0.9 | 74.5 | 45.4 | 463 | 39 | 68.0 | 9.8 | 0.1 | < 1 | 2.7 | 0.1 | 541 | 327 | 589 | 63.0 | 216 | 30.8 | 24.5 | 2.4 | 11.1 | 49.9 | 1.0 | 0.5 |
| 106825 | 15.8 | 2.8 | 60.8 | 67.8 | 512 | 5 | 5.7 | 15.9 | 0.2 | < 1 | 0.6 | < 0.1 | 605 | 904 | 1610 | 166 | 548 | 68.0 | 49.8 | 4.2 | 18.2 | 51.2 | 1.6 | 0.8 |
| 106826 | 18.9 | 3.3 | 41.2 | 82.8 | 418 | 9 | 8.7 | 5.5 | 0.2 | < 1 | 0.4 | < 0.1 | 527 | 590 | 1070 | 116 | 410 | 59.3 | 46.4 | 4.5 | 21.0 | 32.1 | 1.4 | 0.9 |
| 106827 | 19.3 | 1.3 | 104 | 56.6 | 431 | 43 | 7.2 | 5.8 | 0.1 | < 1 | < 0.1 | < 0.1 | 654 | 366 | 684 | 73.4 | 254 | 37.4 | 29.2 | 3.0 | 14.3 | 79.3 | 0.8 | 0.7 |
| 106828 | 12.2 | 0.9 | 41.4 | 36.3 | 430 | 5 | 16.7 | 4.7 | < 0.1 | < 1 | 4.5 | < 0.1 | 562 | 194 | 361 | 39.0 | 136 | 20.8 | 17.2 | 1.8 | 9.0 | 66.3 | 0.5 | 0.4 |
| 106829 | 16.2 | 3.2 | 61.1 | 70.0 | 551 | 35 | 87.7 | 9.5 | 0.2 | 3 | 8.2 | 0.2 | 549 | 447 | 827 | 90.5 | 316 | 45.9 | 35.6 | 3.7 | 17.6 | 39.2 | 1.0 | 0.8 |
| 106830 | 18.5 | 2.0 | 94.2 | 24.0 | 357 | 151 | 97.4 | 4.0 | < 0.1 | 2 | 21.0 | 0.2 | 615 | 154 | 284 | 30.2 | 104 | 14.8 | 11.3 | 1.2 | 5.7 | 27.5 | 0.4 | 0.3 |
| 106831 | 19.1 | 1.4 | 72.8 | 15.6 | 321 | 123 | 1.4 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 629 | 53.3 | 122 | 11.3 | 40.0 | 6.8 | 5.7 | 0.6 | 3.4 | 19.5 | 0.6 | 0.2 |
| 106832 | 19.4 | 1.9 | 78.5 | 44.5 | 417 | 47 | 42.3 | 3.2 | 0.1 | < 1 | 2.0 | 0.1 | 616 | 253 | 490 | 55.3 | 196 | 28.6 | 22.3 | 2.3 | 11.1 | 49.3 | 0.7 | 0.5 |
| 106833 | 15.0 | 2.0 | 19.1 | 51.4 | 444 | 97 | 210 | 4.5 | 0.2 | 1 | 0.7 | 0.3 | 409 | 276 | 559 | 62.8 | 230 | 36.4 | 29.4 | 3.1 | 14.7 | 12.7 | 1.4 | 0.6 |
| 106834 | 14.7 | 1.4 | 69.5 | 49.5 | 421 | 10 | 25.3 | 61.5 | 0.1 | < 1 | 2.9 | < 0.1 | 840 | 241 | 464 | 52.8 | 186 | 28.1 | 23.3 | 2.6 | 12.5 | 49.3 | 0.8 | 0.6 |
| 106835 | 18.7 | 2.3 | 96.1 | 28.3 | 323 | 22 | 8.3 | 4.3 | < 0.1 | < 1 | 1.1 | < 0.1 | 585 | 147 | 259 | 30.4 | 107 | 16.3 | 12.9 | 1.4 | 6.8 | 52.7 | 0.5 | 0.4 |
| 106836 | 14.4 | 2.8 | 86.7 | 83.2 | 599 | 10 | 24.9 | 16.6 | 0.2 | < 1 | 0.5 | < 0.1 | 742 | 414 | 829 | 95.8 | 349 | 53.0 | 41.7 | 4.5 | 21.9 | 32.0 | 1.1 | 1.0 |
| 106837 | 15.5 | 5.4 | 76.7 | 64.8 | 465 | 68 | 128 | 6.7 | 0.1 | 1 | 6.9 | 0.2 | 656 | 572 | 1120 | 120 | 419 | 57.3 | 40.9 | 3.8 | | | | |

Activation Laboratories Ltd. Report: A11-11876

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 106838 | 11.4 | 4.9 | 52.5 | 104 | 586 | 3 | 5.6 | 5.7 | 0.2 | < 1 | < 0.1 | < 0.1 | 573 | 1050 | 1990 | 211 | 716 | 93.5 | 67.0 | 6.2 | 28.0 | 26.6 | 1.9 | 1.2 |
| 106839 | 15.1 | 4.0 | 55.0 | 66.0 | 382 | 184 | 225 | 4.8 | 0.2 | 3 | 0.2 | 0.4 | 701 | 647 | 1180 | 129 | 441 | 60.8 | 43.5 | 4.1 | 18.2 | 20.1 | 1.2 | 0.7 |
| 106840 | 17.0 | 5.1 | 58.4 | 91.9 | 422 | 84 | 125 | 9.1 | 0.2 | 3 | 0.1 | 0.2 | 700 | 2300 | 3650 | 323 | 927 | 97.3 | 77.2 | 6.0 | 25.1 | 18.4 | 2.5 | 1.0 |
| 106841 | 17.6 | 4.5 | 9.5 | 36.2 | 326 | 106 | 17.4 | 6.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 475 | 206 | 438 | 49.2 | 172 | 26.6 | 21.0 | 2.2 | 10.8 | 14.6 | 1.0 | 0.5 |
| 106842 | 17.7 | 3.5 | 53.9 | 59.2 | 387 | 76 | 90.2 | 6.4 | 0.1 | < 1 | 0.1 | 0.1 | 706 | 394 | 783 | 92.9 | 339 | 50.1 | 35.9 | 3.6 | 16.2 | 29.4 | 1.4 | 0.7 |
| 106843 | 19.3 | 2.3 | 50.5 | 28.4 | 357 | 120 | 100 | 19.1 | < 0.1 | 1 | 0.1 | 0.1 | 487 | 155 | 342 | 37.0 | 134 | 21.4 | 15.6 | 1.5 | 7.1 | 13.6 | 0.7 | 0.3 |
| 106844 | 18.9 | 3.1 | 73.8 | 54.8 | 495 | 45 | 87.1 | 8.3 | 0.1 | < 1 | < 0.1 | 0.2 | 633 | 405 | 823 | 92.2 | 331 | 47.8 | 34.1 | 3.2 | 14.2 | 47.5 | 1.2 | 0.6 |
| 106845 | 15.3 | 1.4 | 19.5 | 36.8 | 702 | 14 | 3.7 | 8.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 241 | 193 | 399 | 46.9 | 173 | 26.5 | 20.8 | 2.1 | 9.5 | 28.3 | 0.6 | 0.4 |
| 106846 | 14.7 | 5.0 | 40.5 | 104 | 836 | 26 | 131 | 14.6 | 0.2 | < 1 | 0.6 | 0.2 | 630 | 893 | 2010 | 240 | 873 | > 100 | 84.7 | 7.5 | 30.3 | 35.0 | 2.6 | 1.1 |
| 106847 | 18.9 | 2.1 | 65.1 | 10.5 | 244 | 76 | 40.0 | 3.9 | < 0.1 | 1 | 1.5 | < 0.1 | 545 | 71.4 | 145 | 16.2 | 56.7 | 7.9 | 5.5 | 0.6 | 2.7 | 8.6 | 0.7 | 0.2 |
| 106848 | 20.4 | 1.3 | 63.4 | 20.7 | 278 | 119 | 162 | 6.4 | < 0.1 | 4 | < 0.1 | 0.1 | 560 | 184 | 378 | 41.3 | 146 | 20.0 | 13.9 | 1.3 | 6.0 | 11.5 | 0.7 | 0.3 |
| 106849 | 16.8 | 1.2 | 59.9 | 17.1 | 331 | 98 | 73.5 | 2.6 | < 0.1 | < 1 | 3.0 | 0.1 | 581 | 92.8 | 201 | 22.8 | 81.4 | 12.0 | 8.6 | 0.9 | 4.4 | 8.8 | 0.7 | 0.2 |
| 106850 | 13.3 | 3.2 | 33.6 | 105 | 835 | 11 | 21.9 | 10.1 | 0.2 | < 1 | < 0.1 | < 0.1 | 492 | 419 | 872 | 99.9 | 365 | 52.6 | 43.3 | 4.8 | 24.9 | 19.7 | 1.1 | 1.3 |
| 106851 | 15.2 | < 0.1 | 24.0 | 32.8 | 226 | 16 | 1.5 | 0.2 | < 0.1 | < 1 | 1.0 | < 0.1 | 378 | 88.4 | 196 | 21.1 | 77.3 | 13.8 | 12.1 | 1.4 | 7.6 | 33.5 | 0.4 | 0.4 |
| 106852 | 17.0 | 2.1 | 20.5 | 28.6 | 330 | 152 | 99.9 | 7.3 | < 0.1 | 1 | 0.1 | 0.2 | 593 | 149 | 345 | 37.7 | 136 | 21.1 | 15.6 | 1.7 | 8.1 | 25.5 | 1.1 | 0.4 |
| 106853 | 15.3 | 1.7 | 57.7 | 52.6 | 451 | 10 | 11.7 | 8.0 | 0.1 | < 1 | < 0.1 | < 0.1 | 596 | 423 | 860 | 92.5 | 323 | 46.4 | 34.4 | 3.3 | 14.4 | 33.3 | 1.1 | 0.6 |
| 106854 | 17.2 | 2.9 | 67.9 | 50.4 | 422 | 49 | 57.4 | 16.3 | 0.1 | < 1 | 2.2 | 0.2 | 559 | 361 | 729 | 79.8 | 279 | 40.6 | 29.9 | 3.0 | 13.4 | 44.3 | 1.0 | 0.6 |
| 106855 | 17.1 | 2.0 | 72.6 | 53.7 | 449 | 61 | 84.1 | 12.6 | 0.1 | < 1 | 4.5 | 0.2 | 579 | 393 | 801 | 88.1 | 311 | 45.4 | 33.6 | 3.3 | 14.5 | 38.3 | 1.1 | 0.6 |
| 106856 | 18.7 | 3.3 | 59.2 | 86.4 | 561 | 4 | 9.0 | 7.3 | 0.2 | < 1 | 0.2 | < 0.1 | 574 | 887 | 1690 | 195 | 682 | 90.3 | 63.0 | 5.7 | 23.8 | 21.0 | 2.0 | 1.0 |
| 106857 | 22.4 | 3.1 | 79.1 | 72.7 | 516 | 8 | 34.5 | 11.0 | < 0.1 | < 1 | < 0.1 | < 0.1 | 535 | 566 | 1180 | 130 | 461 | 64.1 | 45.4 | 4.5 | 20.9 | 19.2 | 1.6 | 1.1 |
| 106858 | 20.5 | 2.6 | 78.0 | 36.8 | 313 | 29 | 25.9 | 8.9 | < 0.1 | 2 | 3.6 | < 0.1 | 626 | 198 | 392 | 46.2 | 167 | 24.7 | 18.4 | 1.9 | 8.9 | 49.5 | 0.7 | 0.4 |
| 106859 | 19.1 | 0.4 | 68.8 | 20.6 | 218 | 19 | 1.6 | 0.9 | < 0.1 | 1 | < 0.1 | < 0.1 | 524 | 82.9 | 199 | 18.5 | 66.7 | 10.9 | 9.0 | 1.0 | 5.1 | 40.2 | 0.5 | 0.3 |
| 106860 | 19.2 | 1.2 | 92.5 | 41.6 | 278 | 36 | 31.6 | 3.8 | < 0.1 | 2 | < 0.1 | < 0.1 | 572 | 159 | 311 | 36.6 | 131 | 21.2 | 17.7 | 2.2 | 10.9 | 44.3 | 0.7 | 0.5 |
| 106861 | 23.2 | < 0.1 | 71.8 | 39.3 | 295 | 16 | 7.4 | 4.6 | 0.2 | < 1 | 0.2 | < 0.1 | 461 | 208 | 482 | 46.1 | 164 | 25.6 | 20.9 | 2.2 | 10.5 | 73.1 | 0.7 | 0.4 |
| 106862 | 17.8 | 3.3 | 37.5 | 73.3 | 522 | 68 | 97.2 | 9.8 | 0.2 | < 1 | < 0.1 | 0.2 | 444 | 395 | 740 | 86.1 | 312 | 47.1 | 36.7 | 3.9 | 18.8 | 23.1 | 1.4 | 0.8 |
| 106863 | 15.0 | 2.3 | 60.0 | 29.0 | 329 | 11 | 14.2 | 3.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 567 | 218 | 431 | 42.6 | 144 | 21.2 | 15.9 | 1.6 | 7.8 | 12.2 | 0.5 | 0.4 |
| 106864 | 13.3 | 0.7 | 71.5 | 42.4 | 411 | 4 | 2.4 | 5.1 | < 0.1 | < 1 | 0.3 | < 0.1 | 550 | 325 | 516 | 53.5 | 178 | 24.8 | 19.7 | 2.0 | 9.9 | 148 | 0.6 | 0.5 |
| 106865 | 18.1 | 1.9 | 65.9 | 18.6 | 313 | 79 | 39.4 | 1.6 | < 0.1 | 1 | 0.8 | < 0.1 | 587 | 116 | 213 | 20.4 | 67.3 | 10.0 | 8.2 | 0.9 | 4.5 | 12.8 | 0.3 | 0.3 |
| 106866 | 15.4 | 3.6 | 44.1 | 90.6 | 526 | 4 | 15.4 | 6.1 | 0.2 | < 1 | 1.6 | < 0.1 | 646 | 733 | 1490 | 164 | 581 | 81.8 | 61.3 | 6.0 | 26.7 | 22.1 | 1.7 | 1.0 |
| 106867 | 28.6 | 5.4 | 58.7 | 90.7 | 281 | 43 | 11.1 | 13.0 | 0.2 | 1 | 0.9 | 0.1 | 739 | 354 | 693 | 75.1 | 272 | 46.5 | 39.2 | 4.4 | 21.8 | 65.1 | 0.9 | 1.1 |
| 106868 | 21.3 | 1.9 | 67.7 | 46.0 | 285 | 132 | 55.4 | 3.2 | 0.1 | 2 | 2.0 | 0.2 | 549 | 314 | 585 | 63.0 | 219 | 31.6 | 23.8 | 2.5 | 12.1 | 41.4 | 0.8 | 0.5 |
| 106869 | 19.1 | 3.9 | 95.8 | 62.3 | 495 | 79 | 56.8 | 8.4 | 0.2 | 2 | 0.4 | < 0.1 | 617 | 603 | 1130 | 119 | 409 | 53.2 | 37.7 | 3.5 | 16.1 | 51.6 | 1.3 | 0.7 |
| 106870 | 17.2 | 3.6 | 85.9 | 57.2 | 433 | 56 | 63.0 | 11.9 | 0.1 | 2 | 0.6 | < 0.1 | 594 | 427 | 789 | 84.6 | 290 | 40.5 | 29.9 | 3.1 | 14.7 | 53.1 | 0.9 | 0.6 |
| 106871 | 15.6 | 3.0 | 26.6 | 41.1 | 615 | 124 | 183 | 8.8 | < 0.1 | 1 | 2.6 | 0.4 | 540 | 252 | 482 | 53.5 | 189 | 28.3 | 22.1 | 2.3 | 11.0 | 57.4 | 1.2 | 0.5 |
| 106872 | 17.9 | 1.4 | 58.4 | 48.6 | 325 | 70 | 76.1 | 3.3 | 0.1 | < 1 | 0.5 | 0.2 | 464 | 302 | 530 | 59.1 | 206 | 31.1 | 24.2 | 2.5 | 12.2 | 46.2 | 0.9 | 0.6 |
| 106873 | 17.9 | 1.8 | 69.4 | 61.0 | 376 | 68 | 79.3 | 7.1 | 0.1 | 1 | 0.6 | 0.2 | 526 | 332 | 640 | 67.9 | 235 | 36.2 | 27.9 | 3.0 | 14.9 | 50.9 | 1.1 | 0.7 |
| 106874 | 19.0 | < 0.1 | 50.3 | 25.1 | 292 | 15 | 0.5 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 347 | 86.2 | 176 | 20.0 | 74.2 | 12.8 | 10.4 | 1.2 | 6.1 | 78.2 | 0.4 | 0.3 |
| 106875 | 26.2 | < 0.1 | 28.9 | 10.3 | 80.7 | 140 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 221 | 44.3 | 90.6 | 10.4 | 39.1 | 6.2 | 4.7 | 0.5 | 2.4 | 51.6 | 0.3 | 0.1 |
| 106876 | 28.9 | < 0.1 | 48.7 | 28.5 | 167 | 83 | 0.6 | 0.3 | 0.1 | < 1 | < 0.1 | < 0.1 | 426 | 101 | 197 | 22.5 | 82.2 | 14.2 | 12.3 | 1.4 | 7.3 | 54.4 | 0.7 | 0.4 |
| 106877 | 23.2 | < 0.1 | 51.2 | 26.4 | 332 | 68 | < 0.1 | 0.4 | < 0.1 | < 1 | 0.2 | < 0.1 | 440 | 54.5 | 111 | 13.3 | 50.9 | 9.6 | 8.6 | 1.1 | 5.9 | 168 | 0.5 | 0.3 |
| 106878 | 17.0 | < 0.1 | 12.2 | 19.6 | 170 | 57 | 0.4 | 14.1 | < 0.1 | < 1 | 0.3 | < 0.1 | 619 | 73.5 | 141 | 16.8 | 62.1 | 10.3 | 8.0 | 0.9 | 4.6 | 84.8 | 0.5 | 0.2 |
| 106879 | 22.0 | < 0.1 | 30.6 | 14.9 | 140 | 83 | 0.6 | 0.6 | < 0.1 | < 1 | < 0.1 | < 0.1 | 308 | 78.5 | 155 | 17.9 | 66.1 | 11.2 | 8.2 | 0.9 | 4.1 | 132 | 0.4 | 0.2 |
| 106880 | 22.4 | < 0.1 | 46.5 | 13.4 | 178 | 92 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 489 | 41.9 | 89.9 | 9.8 | 36.7 | 6.1 | 4.9 | 0.6 | 3.3 | 35.1 | 0.4 | 0.2 |
| 106881 | 17.1 | 3.8 | 5.9 | 19.0 | 153 | 105 | 238 | 46.0 | 0.2 | 5 | 1.0 | 0.4 | 278 | 452 | 782 | 76.6 | 241 | 27.8 | 18.1 | 1.5 | 6.1 | 57.1 | 0.8 | 0.3 |
| 106882 | 15.5 | 3.0 | 48.5 | 86.9 | 465 | 4 | 3.9 | 12.7 | 0.1 | < 1 | < 0.1 | < 0.1 | 476 | 378 | 809 | 89.6 | 318 | 45.4 | 35.4 | 3.9 | 20.0 | 71.2 | 1.1 | 1.2 |
| 106883 | 18.2 | < 0.1 | 41.9 | 47.7 | 566 | 16 | 7.5 | 3.5 | < 0.1 | < 1 | 0.3 | < 0.1 | 475 | 253 | 506 | 56.0 | 194 | 26.9 | 21.5 | 2.2 | 11.1 | 96.9 | 0.8 | 0.6 |
| 106884 | 13.7 | 3.9 | 33.3 | 106 | > 1000 | < 1 | 1.8 | 4.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 466 | 757 | 1560 | 168 | 578 | 79.9 | 63.8 | 6.2 | 28.3 | 66.9 | 1.7 | 1.2 |
| 106885 | 20.4 | 0.4 | 58.8 | 53.2 | 405 | 23 | 23.6 | 9.6 | < 0.1 | < 1 | 1.2 | 0.1 | 593 | 342 | 703 | 74.8 | 258 | 34.6 | 26.9 | 2.6 | 12.2 | 79.3 | 0.9 | 0.6 |
| 106886 | 23.1 | < 0.1 | 66.1 | 32.0 | 231 | 15 | 1.0 | 0.3 | < 0.1 | < 1 | 0.2 | < 0.1 | 481 | 93.7 | 185 | 21.6 | 79.2 | 13.1 | 11.0 | 1.3 | 6.9 | 111 | 0.5 | 0.4 |
| 106887 | 18.5 | < 0.1 | 62.6 | 38.0 | 206 | 15 | 1.2 | 0.7 | < 0.1 | < 1 | < 0.1 | < 0.1 | 497 | 142 | 273 | 30.5 | 110 | 18.7 | 15.2 | 1.7 | 8.9 | 97.3 | 0.6 | 0.5 |
| 106888 | 18.6 | < 0.1 | 72.0 | 28.2 | 348 | 20 | 17.2 | 1.1 | < 0.1 | 1 | 0.2 | < 0.1 | 560 | 98.1 | 192 | 22.2 | 80.2 | 13.7 | 10.6 | 1.2 | 6.2 | 123 | 0.6 | 0.4 |
| 106889 | 7.5 | 5.3 | 23.1 | 168 | > 1000 | 3 | 5.5 | 29.5 | 0.1 | < 1 | 1.0 | 0.1 | 943 | 1140 | 2300 | 240 | | | | | | | | |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 106890 | 18.6 | < 0.1 | 10.7 | 61.6 | 395 | 41 | 6.4 | 9.5 | < 0.1 | < 1 | 0.3 | 0.2 | 231 | 19.2 | 43.6 | 5.4 | 22.8 | 9.6 | 13.8 | 2.1 | 12.3 | 80.4 | 0.2 | 0.9 |
| 106891 | 17.0 | 0.9 | 40.4 | 19.6 | 263 | 99 | 25.0 | 2.5 | < 0.1 | 2 | 0.1 | 0.1 | 413 | 153 | 316 | 33.8 | 118 | 16.5 | 11.1 | 1.1 | 5.1 | 56.8 | 0.6 | 0.3 |
| 106892 | 14.2 | < 0.1 | 2.8 | 14.0 | 133 | 144 | 41.9 | 1.7 | < 0.1 | < 1 | 0.3 | 0.5 | 192 | 24.1 | 57.5 | 7.0 | 27.6 | 5.6 | 5.0 | 0.6 | 3.5 | 85.1 | 0.9 | 0.2 |
| 106893 | 16.3 | 0.7 | 62.2 | 24.7 | 379 | 24 | 14.1 | 1.8 | < 0.1 | < 1 | < 0.1 | < 0.1 | 505 | 81.0 | 182 | 22.6 | 84.7 | 13.6 | 10.6 | 1.2 | 6.1 | 37.9 | 0.5 | 0.3 |
| 106894 | 11.0 | 0.8 | 29.3 | 146 | 539 | 30 | 40.1 | 6.4 | 0.2 | 2 | 0.4 | 0.1 | 790 | 1110 | 2000 | 203 | 681 | 96.4 | 76.9 | 7.8 | 37.4 | 166 | 2.0 | 1.8 |
| 106895 | 18.4 | 1.9 | 60.5 | 29.0 | 295 | 29 | 6.4 | 1.6 | < 0.1 | 1 | < 0.1 | < 0.1 | 566 | 151 | 301 | 32.8 | 117 | 17.7 | 13.7 | 1.5 | 7.2 | 34.6 | 0.7 | 0.4 |
| 106896 | 15.2 | < 0.1 | 68.4 | 72.6 | 250 | 85 | 74.5 | 35.2 | < 0.1 | 2 | 0.6 | 0.2 | 572 | 749 | 1440 | 149 | 520 | 78.9 | 53.6 | 4.9 | 20.8 | 126 | 1.7 | 0.7 |
| 106897 | 18.6 | 0.7 | 93.6 | 17.6 | 357 | 35 | 1.7 | 0.9 | < 0.1 | < 1 | < 0.1 | < 0.1 | 611 | 52.2 | 95.9 | 11.1 | 39.5 | 6.6 | 5.7 | 0.7 | 3.8 | 33.1 | 0.4 | 0.2 |
| 106898 | 19.7 | 1.3 | 19.7 | 51.3 | 143 | 30 | 0.8 | 0.6 | < 0.1 | < 1 | 0.3 | < 0.1 | 383 | 224 | 405 | 44.4 | 156 | 25.7 | 21.3 | 2.6 | 13.2 | 45.5 | 0.6 | 0.6 |
| 106899 | 17.3 | 0.3 | 38.3 | 31.4 | 155 | 75 | 0.6 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 335 | 199 | 350 | 36.6 | 129 | 20.7 | 17.0 | 1.8 | 8.6 | 32.1 | 0.6 | 0.4 |
| 106900 | 16.3 | < 0.1 | 64.7 | 35.6 | 188 | 50 | < 0.1 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 487 | 140 | 251 | 27.3 | 96.1 | 16.6 | 14.9 | 1.7 | 8.5 | 101 | 0.5 | 0.4 |
| 92014 | 20.2 | < 0.1 | 10.1 | 16.9 | 104 | 145 | 50.2 | 0.5 | < 0.1 | < 1 | 1.8 | < 0.1 | 449 | 43.6 | 96.9 | 11.8 | 46.1 | 9.6 | 8.2 | 1.0 | 4.9 | 67.0 | 0.7 | 0.3 |
| 92015 | 19.1 | 1.2 | 51.5 | 21.1 | 150 | 28 | 0.2 | 0.3 | < 0.1 | < 1 | 0.6 | < 0.1 | 405 | 84.9 | 158 | 16.9 | 58.7 | 9.9 | 8.6 | 1.0 | 5.3 | 69.8 | 0.3 | 0.3 |
| 92016 | 25.5 | < 0.1 | 38.0 | 37.1 | 87.9 | 40 | 0.3 | 0.3 | 0.2 | < 1 | 2.2 | < 0.1 | 315 | 465 | 750 | 72.4 | 234 | 38.7 | 28.2 | 2.5 | 10.4 | 81.1 | 0.9 | 0.5 |
| 92017 | 20.8 | < 0.1 | 57.3 | 16.4 | 144 | 35 | 0.2 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 424 | 45.0 | 87.4 | 10.0 | 36.9 | 6.8 | 5.9 | 0.7 | 3.7 | 39.8 | 0.4 | 0.2 |
| 92018 | 19.4 | < 0.1 | 72.1 | 21.6 | 251 | 35 | < 0.1 | 0.2 | < 0.1 | < 1 | 0.4 | < 0.1 | 542 | 55.0 | 100 | 11.7 | 42.8 | 7.9 | 7.1 | 0.9 | 4.7 | 94.0 | 0.4 | 0.3 |
| 92019 | 21.9 | < 0.1 | 66.7 | 28.3 | 162 | 68 | 0.2 | 0.1 | < 0.1 | < 1 | 2.4 | < 0.1 | 522 | 106 | 189 | 21.5 | 76.7 | 13.6 | 11.8 | 1.3 | 6.8 | 97.4 | 0.5 | 0.4 |
| 92020 | 22.4 | < 0.1 | 54.5 | 22.4 | 137 | 66 | 0.6 | 0.1 | < 0.1 | < 1 | 0.2 | < 0.1 | 426 | 79.7 | 148 | 16.9 | 61.3 | 10.4 | 8.9 | 1.1 | 5.4 | 92.4 | 0.4 | 0.3 |
| 92021 | 21.4 | < 0.1 | 56.4 | 27.2 | 163 | 89 | 0.3 | 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | 537 | 73.3 | 140 | 16.2 | 60.3 | 10.7 | 9.6 | 1.2 | 6.2 | 132 | 0.4 | 0.4 |
| 92022 | 20.3 | < 0.1 | 60.0 | 17.8 | 183 | 119 | 0.9 | 0.1 | < 0.1 | < 1 | 0.4 | < 0.1 | 453 | 55.5 | 112 | 12.1 | 44.8 | 8.5 | 7.4 | 0.9 | 4.3 | 52.2 | 0.4 | 0.3 |
| 92023 | 20.0 | < 0.1 | 16.7 | 10.5 | 136 | 156 | 6.7 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 377 | 31.8 | 66.0 | 7.4 | 27.0 | 4.7 | 4.0 | 0.5 | 2.5 | 70.1 | 0.4 | 0.2 |
| 92024 | 23.2 | < 0.1 | 44.2 | 13.5 | 123 | 116 | 0.3 | 0.2 | < 0.1 | < 1 | < 0.1 | < 0.1 | 383 | 51.4 | 110 | 11.6 | 43.4 | 7.4 | 5.9 | 0.6 | 3.2 | 34.6 | 0.3 | 0.2 |
| 92025 | 19.2 | < 0.1 | 91.8 | 24.4 | 213 | 20 | 0.2 | 0.2 | < 0.1 | < 1 | 0.5 | < 0.1 | 488 | 70.3 | 142 | 15.3 | 56.4 | 9.9 | 8.7 | 1.1 | 5.6 | 58.7 | 0.3 | 0.4 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107527 | 1.1 | 0.2 | 1.0 | 4.3 | 0.002 | 0.16 | 7.0 | 24 | 7.1 | 101 | 0.737 | 0.118 | 0.11 |
| 107528 | 2.2 | 0.3 | 1.8 | 3.0 | 0.001 | 0.38 | 28.1 | 19 | 20.1 | 12.4 | 0.502 | 0.209 | 0.05 |
| 107529 | 1.0 | 0.2 | 0.3 | 1.3 | < 0.001 | 0.27 | 11.6 | 13 | 6.5 | 1.0 | 0.629 | 0.025 | < 0.01 |
| 107530 | 1.5 | 0.2 | 2.0 | 2.7 | < 0.001 | 0.38 | 18.4 | 15 | 12.6 | 2.4 | 0.532 | 0.192 | < 0.01 |
| 107531 | 3.2 | 0.4 | 8.6 | 2.9 | < 0.001 | 0.51 | 42.4 | 17 | 23.0 | 4.1 | 0.420 | 0.613 | 0.03 |
| 107532 | 3.2 | 0.4 | 4.3 | 2.7 | < 0.001 | 0.47 | 26.2 | 19 | 29.3 | 10.1 | 0.431 | 0.342 | 0.05 |
| 107533 | 2.7 | 0.4 | 5.8 | 3.0 | 0.002 | 0.51 | 26.4 | 19 | 35.5 | 5.2 | 0.473 | 0.254 | 0.02 |
| 107534 | 2.2 | 0.3 | 2.3 | 1.8 | < 0.001 | 0.50 | 24.4 | 18 | 25.4 | 1.7 | 0.463 | 0.246 | 0.01 |
| 107535 | 1.9 | 0.3 | 3.6 | 1.6 | 0.002 | 0.43 | 19.3 | 16 | 17.6 | 8.5 | 0.407 | 0.179 | 0.02 |
| 107536 | 2.8 | 0.4 | 4.3 | 1.7 | < 0.001 | 0.47 | 28.8 | 25 | 30.2 | 13.6 | 0.442 | 0.325 | 0.06 |
| 107537 | 3.1 | 0.4 | 5.1 | 2.3 | 0.002 | 0.45 | 51.5 | 24 | 37.2 | 3.9 | 0.466 | 0.299 | 0.05 |
| 107538 | 2.1 | 0.3 | 1.6 | 2.1 | < 0.001 | 0.49 | 20.8 | 18 | 21.0 | 1.5 | 0.457 | 0.151 | 0.01 |
| 107539 | 2.3 | 0.3 | 13.0 | 3.2 | < 0.001 | 0.39 | 24.6 | 21 | 35.1 | 7.2 | 0.689 | 0.267 | 0.03 |
| 107540 | 2.7 | 0.4 | 2.2 | 2.9 | < 0.001 | 0.37 | 20.2 | 25 | 23.9 | 1.6 | 0.861 | 0.238 | 0.01 |
| 107541 | 1.7 | 0.2 | 2.2 | 3.5 | 0.001 | 0.36 | 20.8 | 36 | 14.6 | 1.5 | 0.718 | 0.093 | 0.01 |
| 107542 | 1.7 | 0.3 | 1.3 | 3.9 | < 0.001 | 0.39 | 17.7 | 18 | 14.7 | 2.2 | 0.627 | 0.092 | 0.02 |
| 107543 | 1.6 | 0.2 | 0.8 | 3.3 | 0.001 | 0.54 | 21.3 | 17 | 18.5 | 1.5 | 0.459 | 0.075 | 0.03 |
| 107544 | 1.5 | 0.2 | 0.6 | 2.3 | 0.001 | 0.51 | 21.4 | 14 | 13.6 | 0.9 | 0.389 | 0.089 | < 0.01 |
| 107545 | 3.2 | 0.4 | 1.6 | 9.7 | < 0.001 | 0.70 | 21.2 | 25 | 40.0 | 1.1 | 0.832 | 0.127 | 0.01 |
| 107546 | 1.6 | 0.2 | 0.9 | 3.8 | 0.002 | 0.55 | 17.9 | 14 | 13.7 | 1.1 | 0.512 | 0.103 | < 0.01 |
| 107547 | 1.1 | 0.2 | < 0.1 | 0.8 | < 0.001 | 0.38 | 16.2 | 11 | 8.6 | 0.9 | 0.359 | 0.040 | < 0.01 |
| 107548 | 1.1 | 0.1 | < 0.1 | 0.5 | < 0.001 | 0.39 | 19.4 | 10 | 7.6 | 0.9 | 0.307 | 0.035 | < 0.01 |
| 107549 | 1.5 | 0.2 | 1.3 | 5.4 | < 0.001 | 0.38 | 32.7 | 21 | 26.2 | 1.1 | 0.768 | 0.067 | 0.04 |
| 107550 | 1.7 | 0.2 | 0.5 | 2.2 | 0.001 | 0.35 | 16.4 | 16 | 15.9 | 1.6 | 0.498 | 0.104 | 0.02 |
| 107551 | 2.3 | 0.3 | 1.6 | 3.6 | 0.002 | 0.27 | 22.0 | 19 | 49.1 | 3.2 | 0.803 | 0.075 | 0.02 |
| 107552 | 7.0 | 1.0 | 18.5 | 12.5 | 0.002 | 0.17 | 42.0 | 25 | 140 | 10.3 | 0.890 | 0.932 | 0.06 |
| 107553 | 1.6 | 0.2 | 1.1 | 6.0 | < 0.001 | 0.09 | 5.4 | 28 | 6.7 | 0.5 | 0.788 | 0.086 | 0.04 |
| 107554 | 1.2 | 0.2 | 0.5 | 1.8 | < 0.001 | 0.09 | 6.0 | 30 | 5.9 | 1.0 | 0.757 | 0.082 | 0.03 |
| 107555 | 1.6 | 0.2 | 0.7 | 2.5 | < 0.001 | 0.12 | 6.6 | 28 | 13.4 | 0.3 | 0.940 | 0.077 | 0.04 |
| 107556 | 1.3 | 0.2 | 0.1 | 0.9 | < 0.001 | 0.32 | 15.5 | 14 | 10.4 | 1.1 | 0.476 | 0.030 | 0.01 |
| 104576 | 17.6 | 2.5 | < 0.1 | < 0.1 | 0.004 | 0.32 | 531 | 185 | > 200 | 0.6 | 0.0796 | 0.695 | 0.11 |
| 104577 | 32.4 | 4.8 | < 0.1 | < 0.1 | 0.003 | 0.68 | 1200 | 367 | > 200 | 0.9 | 0.0859 | 2.48 | 0.10 |
| 107557 | 2.0 | 0.3 | 1.3 | 6.6 | < 0.001 | 0.38 | 19.0 | 23 | 37.3 | 1.1 | 0.711 | 0.117 | 0.02 |
| 107558 | 1.5 | 0.2 | < 0.1 | 0.2 | < 0.001 | 0.46 | 29.0 | 13 | 36.7 | 0.9 | 0.255 | 0.028 | 0.01 |
| 107559 | 0.5 | < 0.1 | 0.9 | 3.7 | < 0.001 | 0.38 | 16.3 | 4 | 5.5 | 0.7 | 0.602 | 0.018 | < 0.01 |
| 107560 | 2.5 | 0.4 | 1.9 | 7.7 | < 0.001 | 0.51 | 24.9 | 23 | 28.6 | 1.5 | 0.792 | 0.178 | 0.03 |
| 107561 | 1.9 | 0.3 | 1.5 | 6.1 | 0.002 | 0.46 | 16.9 | 15 | 17.3 | 4.7 | 0.707 | 0.121 | 0.03 |
| 107562 | 2.3 | 0.4 | 1.2 | 7.1 | 0.001 | 0.88 | 36.4 | 30 | 92.7 | 1.1 | 0.616 | 0.103 | 0.07 |
| 107563 | 2.3 | 0.3 | 1.3 | 3.1 | < 0.001 | 0.46 | 22.6 | 25 | 24.2 | 1.5 | 0.662 | 0.135 | 0.02 |
| 107564 | 1.7 | 0.2 | 1.4 | 2.3 | 0.001 | 0.35 | 17.2 | 17 | 13.6 | 1.2 | 0.604 | 0.117 | < 0.01 |
| 107565 | 1.6 | 0.2 | 1.9 | 2.5 | < 0.001 | 0.34 | 17.6 | 18 | 19.2 | 2.4 | 0.690 | 0.183 | 0.04 |
| 107566 | 1.8 | 0.3 | 2.0 | 2.4 | < 0.001 | 0.40 | 18.0 | 18 | 21.2 | 5.8 | 0.619 | 0.174 | 0.02 |
| 107567 | 2.3 | 0.3 | 1.7 | 2.9 | 0.002 | 0.41 | 22.8 | 22 | 25.2 | 1.3 | 0.688 | 0.182 | 0.02 |
| 107568 | 1.1 | 0.2 | 1.0 | 1.7 | < 0.001 | 0.38 | 14.9 | 12 | 5.1 | 1.1 | 0.476 | 0.111 | < 0.01 |
| 107569 | 1.3 | 0.2 | 4.2 | 1.3 | < 0.001 | 0.40 | 17.2 | 13 | 9.4 | 2.7 | 0.378 | 0.174 | < 0.01 |
| 107570 | 3.9 | 0.5 | 5.3 | 3.7 | < 0.001 | 0.63 | 50.6 | 37 | 69.6 | 8.7 | 0.565 | 0.543 | 0.04 |
| 107571 | 3.8 | 0.5 | 6.0 | 2.3 | 0.002 | 0.40 | 40.3 | 25 | 48.3 | 5.2 | 0.479 | 0.362 | 0.04 |
| 107572 | 9.0 | 1.2 | 3.3 | 1.8 | 0.003 | 0.52 | 115 | 37 | 63.4 | 2.0 | 0.509 | 0.967 | 0.07 |
| 107573 | 4.0 | 0.5 | 5.6 | 3.3 | < 0.001 | 0.52 | 42.8 | 25 | 41.7 | 7.2 | 0.656 | 0.563 | 0.05 |
| 107574 | 3.2 | 0.4 | 5.7 | 1.8 | < 0.001 | 0.56 | 35.6 | 19 | 43.3 | 3.4 | 0.444 | 0.429 | 0.02 |
| 107575 | 4.0 | 0.5 | 1.2 | 1.2 | 0.001 | 0.57 | 94.4 | 25 | 189 | 10.1 | 0.419 | 0.170 | 0.06 |
| 107576 | 1.3 | 0.2 | 1.0 | 1.1 | < 0.001 | 0.46 | 18.7 | 13 | 15.5 | 1.3 | 0.354 | 0.108 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107577 | 1.9 | 0.3 | 0.9 | 0.7 | 0.001 | 0.49 | 32.7 | 18 | 88.1 | 2.3 | 0.443 | 0.087 | 0.02 |
| 107578 | 6.1 | 0.8 | 37.1 | 1.8 | 0.003 | 0.68 | 112 | 20 | 50.3 | 13.8 | 0.383 | 2.08 | 0.11 |
| 107579 | 3.5 | 0.5 | 8.8 | 2.0 | < 0.001 | 0.66 | 29.7 | 18 | 48.8 | 3.3 | 0.625 | 0.885 | 0.04 |
| 107580 | 1.9 | 0.2 | 3.1 | 1.8 | < 0.001 | 0.48 | 24.9 | 16 | 29.1 | 2.6 | 0.463 | 0.185 | 0.02 |
| 107581 | 3.2 | 0.4 | 3.1 | 0.7 | < 0.001 | 1.11 | 11.4 | 10 | 39.5 | 5.2 | 0.163 | 1.64 | 0.02 |
| 107582 | 4.3 | 0.5 | 0.5 | 0.9 | 0.002 | 0.43 | 30.8 | 15 | 38.0 | 5.4 | 0.212 | 0.459 | 0.02 |
| 107583 | 7.9 | 1.0 | 5.9 | 1.2 | 0.001 | 0.55 | 152 | 24 | 145 | 8.8 | 0.374 | 0.446 | 0.09 |
| 107584 | 2.6 | 0.4 | 5.1 | 1.5 | 0.001 | 0.47 | 18.4 | 15 | 23.1 | 5.3 | 0.413 | 0.430 | 0.02 |
| 107585 | 3.1 | 0.4 | 0.5 | 1.4 | < 0.001 | 0.46 | 26.9 | 19 | 44.7 | 10.0 | 0.241 | 0.497 | 0.04 |
| 107586 | 2.9 | 0.4 | 6.1 | 2.2 | < 0.001 | 0.49 | 22.0 | 19 | 35.2 | 11.1 | 0.539 | 0.379 | 0.04 |
| 107587 | 3.3 | 0.5 | 6.2 | 3.3 | < 0.001 | 0.53 | 14.6 | 30 | 27.7 | 8.6 | 1.31 | 0.408 | 0.03 |
| 107588 | 1.6 | 0.2 | 2.4 | 3.4 | 0.002 | 0.37 | 21.4 | 27 | 14.8 | 1.7 | 0.893 | 0.183 | 0.03 |
| 107589 | 1.4 | 0.2 | 1.4 | 2.0 | 0.002 | 0.23 | 13.0 | 15 | 11.7 | 34.3 | 0.544 | 0.182 | 0.13 |
| 107590 | 1.0 | 0.1 | 0.2 | 0.3 | 0.002 | 0.10 | 8.5 | 7 | 10.5 | 20.6 | 0.183 | 0.132 | 0.22 |
| 107591 | 4.1 | 0.6 | 0.1 | 2.0 | 0.001 | 0.38 | 38.1 | 22 | 36.7 | 17.5 | 0.238 | 0.833 | 0.04 |
| 107592 | 4.0 | 0.5 | 1.0 | 2.6 | 0.002 | 0.34 | 22.9 | 25 | 34.6 | 7.4 | 0.516 | 0.721 | 0.04 |
| 107593 | 7.6 | 1.1 | < 0.1 | 2.6 | < 0.001 | 0.44 | 19.5 | 35 | 66.0 | 80.6 | 0.168 | 1.37 | 0.11 |
| 107594 | 2.1 | 0.3 | 1.4 | 1.1 | 0.001 | 0.37 | 17.4 | 17 | 29.9 | 20.7 | 0.351 | 0.222 | 0.12 |
| 107595 | 13.1 | 1.7 | < 0.1 | < 0.1 | 0.002 | 2.01 | 73.3 | 31 | > 200 | 22.8 | 0.0455 | 1.61 | 0.03 |
| 107596 | 4.9 | 0.7 | 23.4 | 2.4 | 0.003 | 0.95 | 22.2 | 28 | 49.2 | 39.4 | 0.358 | 1.05 | 0.14 |
| 107597 | 1.4 | 0.2 | 2.5 | 6.0 | 0.004 | 0.43 | 23.8 | 14 | 9.3 | 3.5 | 0.412 | 0.206 | < 0.01 |
| 107598 | 1.9 | 0.3 | 1.0 | 4.8 | 0.002 | 0.40 | 23.2 | 15 | 22.1 | 4.4 | 0.240 | 0.268 | 0.03 |
| 107599 | 2.5 | 0.3 | 0.4 | < 0.1 | 0.005 | 0.44 | 28.2 | 23 | 47.8 | 2.1 | 0.437 | 0.245 | 0.01 |
| 107600 | 2.9 | 0.4 | 0.1 | < 0.1 | 0.003 | 0.50 | 37.8 | 21 | 48.2 | 2.4 | 0.383 | 0.368 | < 0.01 |
| 107626 | 2.4 | 0.3 | 1.5 | < 0.1 | 0.003 | 0.33 | 52.0 | 19 | 54.6 | 27.5 | 0.375 | 0.684 | 0.01 |
| 107627 | 2.0 | 0.3 | 2.5 | 1.3 | 0.003 | 0.44 | 33.3 | 22 | 61.5 | 3.5 | 0.480 | 0.339 | 0.06 |
| 107628 | 0.8 | 0.1 | 1.1 | 6.6 | 0.005 | 0.39 | 17.9 | 10 | 8.3 | 1.2 | 0.329 | 0.065 | 0.01 |
| 107629 | 1.1 | 0.2 | 0.5 | 6.1 | 0.002 | 0.41 | 16.9 | 11 | 10.1 | 1.3 | 0.322 | 0.080 | < 0.01 |
| 107630 | 1.6 | 0.2 | 2.1 | 3.0 | 0.004 | 0.38 | 29.9 | 16 | 37.1 | 11.7 | 0.347 | 0.305 | 0.10 |
| 107631 | 15.1 | 2.0 | 1.1 | < 0.1 | 0.001 | 0.37 | 156 | 80 | > 200 | 2.9 | 0.467 | 0.203 | 0.03 |
| 107632 | 1.3 | 0.2 | 1.7 | 12.2 | 0.002 | 0.33 | 13.8 | 24 | 9.0 | 0.8 | 0.930 | 0.127 | 0.02 |
| 107633 | 2.2 | 0.3 | 0.9 | 7.0 | 0.003 | 0.40 | 16.7 | 29 | 18.4 | 0.9 | 0.743 | 0.112 | 0.03 |
| 107634 | 1.0 | 0.2 | < 0.1 | 7.7 | 0.001 | 0.10 | 7.8 | 18 | 3.7 | 0.7 | 0.441 | 0.029 | 0.02 |
| 107635 | 2.0 | 0.3 | 0.7 | 5.6 | 0.001 | 0.15 | 9.9 | 21 | 17.6 | 0.6 | 0.903 | 0.215 | 0.04 |
| 107636 | 1.4 | 0.2 | 0.7 | 6.7 | 0.003 | 0.21 | 11.0 | 19 | 7.5 | 1.1 | 0.821 | 0.116 | 0.03 |
| 107637 | 1.1 | 0.2 | 0.4 | 7.2 | 0.002 | 0.17 | 7.5 | 44 | 5.3 | 0.3 | 0.672 | 0.134 | 0.02 |
| 107638 | 1.6 | 0.2 | 0.9 | 6.9 | 0.001 | 0.48 | 29.9 | 16 | 9.6 | 1.2 | 0.546 | 0.116 | 0.02 |
| 107639 | 1.2 | 0.2 | 0.6 | 6.0 | 0.003 | 0.36 | 16.2 | 13 | 7.8 | 1.1 | 0.456 | 0.041 | 0.02 |
| 107640 | 1.9 | 0.3 | 1.3 | 8.6 | 0.003 | 0.26 | 11.6 | 28 | 26.3 | 0.9 | 0.866 | 0.139 | 0.08 |
| 107641 | 2.5 | 0.3 | 1.1 | 13.3 | 0.003 | 0.65 | 16.4 | 29 | 20.5 | 1.2 | 0.757 | 0.169 | 0.13 |
| 107642 | 1.6 | 0.2 | 1.2 | 9.9 | 0.002 | 0.38 | 49.7 | 19 | 6.4 | 0.6 | 0.633 | 0.142 | 0.06 |
| 107643 | 0.9 | 0.1 | 0.8 | 7.3 | 0.002 | 0.33 | 20.3 | 11 | 6.3 | 0.7 | 0.453 | 0.065 | < 0.01 |
| 107644 | 14.5 | 1.7 | 5.8 | < 0.1 | 0.002 | 0.37 | 126 | 56 | > 200 | 133 | 0.371 | 0.698 | 0.20 |
| 107645 | 5.7 | 0.8 | 0.2 | 0.8 | 0.003 | 0.65 | 64.8 | 38 | 93.3 | 6.2 | 0.290 | 0.553 | 0.02 |
| 107646 | 4.7 | 0.6 | 1.6 | < 0.1 | 0.003 | 0.71 | 43.5 | 32 | 93.5 | 39.7 | 0.372 | 0.913 | 0.03 |
| 107647 | 2.5 | 0.3 | 3.0 | 4.2 | 0.002 | 0.41 | 20.8 | 18 | 23.2 | 3.2 | 0.533 | 0.346 | 0.03 |
| 107648 | 7.5 | 0.9 | < 0.1 | < 0.1 | 0.004 | 0.42 | 36.4 | 25 | 77.9 | 19.0 | 0.166 | 1.24 | 0.03 |
| 107649 | 4.4 | 0.6 | 6.7 | < 0.1 | < 0.001 | 0.39 | 47.0 | 26 | 53.1 | 12.7 | 0.500 | 0.713 | 0.04 |
| 107650 | 2.6 | 0.4 | 7.6 | 4.6 | 0.002 | 0.46 | 21.3 | 20 | 18.6 | 4.8 | 0.688 | 0.465 | 0.02 |
| 107651 | 1.4 | 0.2 | 2.2 | 5.0 | 0.005 | 0.49 | 39.3 | 14 | 7.2 | 5.6 | 0.385 | 0.209 | 0.05 |
| 107652 | 1.7 | 0.2 | 2.5 | 4.9 | 0.003 | 0.52 | 33.7 | 17 | 9.1 | 3.2 | 0.411 | 0.152 | 0.04 |
| 107653 | 2.2 | 0.3 | 0.9 | 3.0 | 0.003 | 0.49 | 32.0 | 18 | 25.9 | 6.0 | 0.359 | 0.282 | 0.04 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107654 | 3.1 | 0.4 | 1.8 | < 0.1 | 0.001 | 0.40 | 58.8 | 24 | 69.2 | 4.2 | 0.468 | 0.272 | 0.07 |
| 107655 | 2.5 | 0.3 | 2.7 | 1.4 | 0.003 | 0.41 | 23.4 | 21 | 34.8 | 40.3 | 0.360 | 0.339 | 0.12 |
| 107656 | 2.5 | 0.3 | 4.0 | 2.1 | 0.002 | 0.46 | 22.4 | 19 | 25.8 | 3.5 | 0.434 | 0.211 | 0.02 |
| 107657 | 3.8 | 0.5 | < 0.1 | < 0.1 | 0.004 | 0.50 | 33.9 | 18 | 35.5 | 35.4 | 0.111 | 0.714 | 0.03 |
| 107658 | 2.0 | 0.3 | 0.3 | 2.3 | 0.003 | 0.41 | 18.9 | 13 | 17.9 | 6.8 | 0.174 | 0.513 | 0.01 |
| 107659 | 3.0 | 0.4 | 2.1 | 1.1 | 0.004 | 0.41 | 22.4 | 21 | 27.2 | 6.5 | 0.371 | 0.557 | 0.02 |
| 107660 | 3.6 | 0.5 | 11.5 | 4.1 | 0.003 | 0.41 | 48.8 | 25 | 12.8 | 11.7 | 0.495 | 0.655 | 0.04 |
| 107661 | 2.8 | 0.4 | 1.1 | 5.0 | 0.004 | 0.35 | 22.7 | 11 | 9.9 | 7.8 | 0.376 | 0.351 | 0.02 |
| 107662 | 1.8 | 0.3 | 0.4 | 4.0 | 0.004 | 0.35 | 15.5 | 18 | 19.5 | 25.4 | 0.581 | 0.244 | 0.03 |
| 107663 | 2.3 | 0.3 | 1.4 | 3.3 | 0.003 | 0.34 | 17.6 | 21 | 23.2 | 24.3 | 0.574 | 0.289 | 0.10 |
| 107664 | 1.7 | 0.2 | 0.7 | 4.0 | 0.004 | 0.41 | 20.1 | 18 | 18.2 | 1.3 | 0.600 | 0.113 | 0.02 |
| 107665 | 2.3 | 0.3 | 1.8 | 3.9 | 0.002 | 0.47 | 24.0 | 29 | 38.9 | 4.4 | 0.695 | 0.123 | 0.04 |
| 107666 | 0.9 | 0.1 | 0.4 | 5.0 | 0.005 | 0.34 | 16.1 | 10 | 7.9 | 1.0 | 0.296 | 0.047 | < 0.01 |
| 107667 | 2.5 | 0.3 | 1.5 | 4.5 | 0.003 | 0.40 | 30.6 | 23 | 46.5 | 1.8 | 0.332 | 0.203 | 0.05 |
| 107668 | 1.1 | 0.2 | 0.8 | 7.4 | 0.003 | 0.45 | 35.0 | 16 | 14.5 | 0.6 | 0.644 | 0.041 | 0.01 |
| 107669 | 1.7 | 0.2 | 1.1 | 6.9 | 0.002 | 0.54 | 17.6 | 16 | 16.4 | 1.2 | 0.635 | 0.129 | 0.02 |
| 107670 | 1.1 | 0.2 | 1.3 | 7.3 | 0.002 | 0.37 | 15.9 | 12 | 4.3 | 3.2 | 0.704 | 0.144 | 0.04 |
| 107671 | 1.1 | 0.2 | 0.3 | 4.8 | 0.003 | 0.41 | 16.4 | 13 | 9.7 | 0.9 | 0.476 | 0.072 | < 0.01 |
| 107672 | 1.5 | 0.2 | 0.4 | 3.9 | 0.003 | 0.36 | 31.1 | 23 | 16.3 | 1.4 | 0.573 | 0.077 | 0.03 |
| 107673 | 2.1 | 0.3 | 0.2 | < 0.1 | 0.004 | 0.35 | 58.2 | 36 | 134 | 1.1 | 0.597 | 0.074 | 0.05 |
| 107674 | 2.1 | 0.3 | 0.5 | 6.0 | < 0.001 | 0.31 | 11.9 | 27 | 31.5 | 2.0 | 0.793 | 0.270 | 0.11 |
| 107675 | 1.2 | 0.2 | 0.5 | 4.8 | 0.002 | 0.33 | 14.5 | 19 | 9.9 | 0.9 | 0.763 | 0.054 | 0.02 |
| 107676 | 1.1 | 0.2 | 0.4 | 5.4 | 0.002 | 0.13 | 7.0 | 23 | 6.6 | 0.4 | 0.880 | 0.132 | 0.02 |
| 107677 | 0.9 | 0.1 | 0.5 | 5.5 | 0.004 | 0.11 | 6.0 | 29 | 2.2 | 0.6 | 0.818 | 0.174 | 0.03 |
| 92012 | 10.3 | 1.1 | < 0.1 | 1.2 | < 0.001 | 0.14 | 55.0 | 20 | 163 | 4.0 | 0.433 | 0.880 | 0.04 |
| 107678 | 1.3 | 0.2 | 0.3 | 5.2 | 0.002 | 0.11 | 8.6 | 48 | 6.4 | 0.6 | 0.567 | 0.130 | 0.02 |
| 107679 | 0.8 | 0.1 | 0.3 | 5.0 | 0.001 | 0.08 | 2.3 | 25 | 3.0 | 0.2 | 0.906 | 0.075 | < 0.01 |
| 107680 | 1.3 | 0.2 | 0.3 | 4.7 | 0.003 | 0.28 | 11.7 | 21 | 8.2 | 0.7 | 0.444 | 0.109 | 0.04 |
| 107681 | 1.7 | 0.2 | 0.2 | 3.8 | 0.001 | 0.34 | 15.0 | 18 | 17.1 | 1.1 | 0.506 | 0.135 | 0.04 |
| 107682 | 1.3 | 0.2 | 0.7 | 4.6 | 0.001 | 0.42 | 19.9 | 17 | 17.9 | 0.5 | 0.526 | 0.036 | 0.01 |
| 107683 | 1.6 | 0.2 | 0.2 | 4.2 | 0.004 | 0.50 | 28.5 | 23 | 25.8 | 0.7 | 0.578 | 0.037 | 0.01 |
| 107684 | 1.7 | 0.2 | 0.2 | < 0.1 | 0.002 | 0.46 | 92.9 | 22 | 64.3 | 0.7 | 0.628 | 0.081 | 0.03 |
| 107685 | 1.7 | 0.2 | 0.7 | 4.2 | 0.003 | 0.40 | 38.9 | 17 | 18.3 | 1.1 | 0.526 | 0.071 | 0.02 |
| 107686 | 1.6 | 0.2 | 1.2 | 7.1 | 0.003 | 0.44 | 17.5 | 18 | 15.1 | 1.0 | 0.727 | 0.089 | 0.02 |
| 107687 | 1.8 | 0.2 | 0.1 | 3.9 | 0.002 | 0.51 | 21.9 | 19 | 28.4 | 1.0 | 0.512 | 0.109 | 0.01 |
| 107688 | 2.2 | 0.3 | 1.0 | 4.8 | 0.002 | 0.46 | 35.5 | 26 | 45.3 | 2.3 | 0.635 | 0.114 | 0.04 |
| 107689 | 0.5 | < 0.1 | 0.6 | 4.8 | 0.002 | 0.30 | 14.6 | 8 | 2.0 | 0.7 | 0.331 | 0.072 | < 0.01 |
| 107690 | 4.3 | 0.6 | 11.4 | 3.4 | 0.002 | 0.44 | 27.4 | 34 | 38.9 | 49.0 | 0.456 | 1.05 | 0.08 |
| 107691 | 1.8 | 0.2 | 0.6 | 2.0 | 0.002 | 0.43 | 76.9 | 21 | 30.2 | 3.7 | 0.481 | 0.113 | 0.02 |
| 107692 | 1.2 | 0.2 | 0.2 | 3.8 | 0.003 | 0.50 | 32.1 | 20 | 20.0 | 0.4 | 0.517 | 0.027 | 0.01 |
| 107693 | 1.2 | 0.2 | 0.2 | 3.7 | 0.002 | 0.30 | 14.4 | 15 | 10.8 | 0.7 | 0.543 | 0.047 | < 0.01 |
| 107694 | 5.2 | 0.7 | < 0.1 | < 0.1 | < 0.001 | 0.17 | 25.6 | 27 | 48.9 | 98.3 | 0.180 | 1.40 | 0.11 |
| 107695 | 3.7 | 0.5 | < 0.1 | 1.5 | 0.001 | 0.32 | 17.7 | 15 | 29.3 | 3.8 | 0.197 | 0.712 | < 0.01 |
| 107696 | 4.2 | 0.6 | 0.3 | 1.2 | 0.002 | 0.48 | 45.0 | 21 | 52.6 | 13.4 | 0.213 | 0.856 | 0.02 |
| 107697 | 2.0 | 0.3 | 0.8 | 3.0 | 0.004 | 0.43 | 19.4 | 15 | 30.2 | 5.7 | 0.350 | 0.469 | 0.01 |
| 107698 | 2.0 | 0.3 | 2.5 | 3.3 | 0.003 | 0.38 | 20.5 | 17 | 23.3 | 3.9 | 0.453 | 0.250 | 0.01 |
| 107699 | 3.2 | 0.4 | 7.8 | 2.0 | 0.003 | 0.41 | 26.5 | 29 | 20.5 | 9.7 | 0.452 | 0.949 | 0.07 |
| 107700 | 4.2 | 0.6 | 4.6 | < 0.1 | 0.003 | 0.49 | 25.9 | 19 | 40.6 | 6.8 | 0.264 | 0.597 | 0.05 |
| 107801 | 2.8 | 0.4 | 2.0 | 1.1 | < 0.001 | 0.65 | 32.5 | 18 | 38.4 | 5.2 | 0.186 | 0.285 | < 0.01 |
| 107802 | 3.5 | 0.5 | < 0.1 | 0.4 | 0.003 | 0.47 | 41.7 | 23 | 63.5 | 4.6 | 0.318 | 0.355 | < 0.01 |
| 107803 | 8.0 | 1.1 | < 0.1 | < 0.1 | < 0.001 | 0.58 | 77.5 | 36 | 150 | 20.0 | 0.106 | 1.20 | 0.05 |
| 107804 | 3.8 | 0.5 | 0.3 | < 0.1 | 0.019 | 0.55 | 58.7 | 27 | 161 | 28.1 | 0.212 | 0.665 | 0.05 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107805 | 0.9 | 0.1 | 0.3 | 2.9 | 0.002 | 0.45 | 15.8 | 10 | 6.2 | 1.0 | 0.326 | 0.036 | 0.01 |
| 107806 | 0.8 | 0.1 | 0.4 | 3.1 | 0.003 | 0.43 | 16.0 | 9 | 6.7 | 1.0 | 0.286 | 0.061 | 0.01 |
| 107807 | 1.6 | 0.2 | 1.2 | 2.7 | 0.002 | 0.39 | 20.0 | 13 | 17.2 | 1.6 | 0.314 | 0.342 | 0.01 |
| 107808 | 12.5 | 1.6 | 0.5 | < 0.1 | < 0.001 | 0.53 | 41.3 | 37 | > 200 | 52.0 | 0.0456 | 2.05 | 0.04 |
| 107809 | 1.4 | 0.2 | 2.1 | 3.3 | 0.003 | 0.35 | 23.9 | 9 | 8.0 | 1.6 | 0.312 | 0.277 | 0.02 |
| 107810 | 2.7 | 0.4 | 1.1 | 1.6 | 0.001 | 0.44 | 34.2 | 12 | 19.1 | 3.1 | 0.180 | 0.433 | 0.01 |
| 107811 | 1.8 | 0.2 | 0.2 | 2.5 | < 0.001 | 0.44 | 20.5 | 12 | 21.9 | 2.1 | 0.227 | 0.218 | < 0.01 |
| 107812 | 2.2 | 0.3 | 2.9 | 2.5 | 0.004 | 0.66 | 16.5 | 21 | 23.5 | 28.4 | 0.420 | 0.331 | 0.10 |
| 107813 | 2.5 | 0.3 | 0.3 | 7.2 | 0.002 | 0.39 | 19.8 | 13 | 18.1 | 3.6 | 0.370 | 0.678 | < 0.01 |
| 107814 | 1.6 | 0.2 | 2.2 | 2.4 | 0.001 | 0.41 | 27.6 | 13 | 20.9 | 3.6 | 0.359 | 0.271 | 0.03 |
| 107815 | 1.7 | 0.2 | 1.5 | 4.1 | 0.002 | 0.45 | 19.9 | 15 | 18.2 | 3.2 | 0.371 | 0.220 | 0.07 |
| 107816 | 1.8 | 0.3 | 1.5 | 3.0 | 0.002 | 0.38 | 17.8 | 15 | 12.8 | 14.4 | 0.340 | 0.148 | 0.02 |
| 107817 | 0.7 | < 0.1 | 0.7 | 3.3 | 0.006 | 0.40 | 15.3 | 10 | 3.0 | 1.2 | 0.338 | 0.075 | 0.01 |
| 107818 | 1.0 | 0.1 | 0.9 | 3.3 | 0.001 | 0.40 | 16.9 | 14 | 8.9 | 1.4 | 0.335 | 0.064 | 0.01 |
| 107819 | 0.9 | 0.1 | 0.5 | 3.1 | 0.001 | 0.39 | 15.5 | 9 | 5.8 | 1.0 | 0.272 | 0.068 | 0.01 |
| 107820 | 1.4 | 0.2 | 1.2 | 3.0 | 0.001 | 0.45 | 17.3 | 12 | 10.4 | 2.7 | 0.340 | 0.139 | 0.01 |
| 107821 | 1.0 | 0.1 | 0.5 | 2.8 | 0.002 | 0.45 | 15.7 | 11 | 8.1 | 2.5 | 0.329 | 0.100 | 0.02 |
| 107822 | 1.8 | 0.2 | < 0.1 | 2.4 | 0.004 | 0.33 | 13.3 | 12 | 13.7 | 7.4 | 0.204 | 0.244 | 0.14 |
| 107823 | 2.1 | 0.3 | < 0.1 | 1.8 | 0.002 | 0.37 | 22.3 | 14 | 21.0 | 6.0 | 0.150 | 0.429 | 0.06 |
| 107824 | 2.7 | 0.4 | < 0.1 | 2.0 | 0.001 | 0.41 | 24.7 | 20 | 28.5 | 6.6 | 0.230 | 0.555 | 0.04 |
| 107825 | 1.7 | 0.2 | 0.7 | 2.6 | 0.004 | 0.40 | 19.5 | 13 | 20.0 | 10.2 | 0.298 | 0.402 | 0.06 |
| 107826 | 1.3 | 0.2 | 0.9 | 2.8 | 0.003 | 0.40 | 23.6 | 11 | 15.9 | 1.4 | 0.344 | 0.194 | < 0.01 |
| 107827 | 0.9 | 0.1 | 0.6 | 3.0 | 0.004 | 0.40 | 17.1 | 10 | 7.6 | 1.1 | 0.320 | 0.094 | < 0.01 |
| 107828 | 0.9 | 0.1 | 1.0 | 3.2 | 0.001 | 0.37 | 15.8 | 15 | 6.1 | 1.3 | 0.281 | 0.110 | < 0.01 |
| 107829 | 0.8 | 0.1 | 0.3 | 3.0 | 0.002 | 0.38 | 15.7 | 10 | 6.1 | 1.0 | 0.275 | 0.063 | < 0.01 |
| 107830 | 4.2 | 0.5 | 1.5 | < 0.1 | 0.002 | 0.39 | 37.4 | 22 | 70.4 | 6.9 | 0.109 | 0.514 | < 0.01 |
| 107831 | 3.0 | 0.4 | 0.9 | 0.8 | 0.003 | 0.59 | 38.4 | 22 | 59.4 | 3.8 | 0.419 | 0.398 | 0.01 |
| 107832 | 2.6 | 0.4 | 2.7 | 1.7 | 0.002 | 0.46 | 34.9 | 22 | 28.5 | 2.4 | 0.445 | 0.290 | 0.02 |
| 107833 | 5.4 | 0.7 | 3.8 | < 0.1 | 0.005 | 0.47 | 26.6 | 29 | 50.5 | 3.8 | 0.439 | 0.557 | 0.03 |
| 107834 | 3.6 | 0.5 | 5.8 | 1.5 | 0.004 | 0.42 | 39.3 | 24 | 45.1 | 6.8 | 0.441 | 0.605 | 0.04 |
| 107835 | 2.9 | 0.4 | 5.4 | 2.1 | 0.003 | 0.44 | 23.5 | 29 | 58.3 | 3.6 | 0.665 | 0.442 | 0.04 |
| 107836 | 2.8 | 0.4 | 5.1 | 2.2 | 0.001 | 0.41 | 22.7 | 23 | 39.3 | 16.3 | 0.520 | 0.440 | 0.05 |
| 107837 | 2.3 | 0.3 | 2.0 | 3.5 | 0.003 | 0.37 | 21.2 | 23 | 19.1 | 5.2 | 0.574 | 0.304 | 0.02 |
| 107838 | 2.1 | 0.3 | 11.9 | 4.3 | 0.002 | 0.34 | 30.2 | 32 | 7.2 | 6.4 | 0.676 | 0.637 | 0.03 |
| 107839 | 2.2 | 0.3 | 6.3 | 4.0 | 0.003 | 0.45 | 35.6 | 31 | 12.2 | 5.5 | 0.456 | 0.403 | 0.03 |
| 107840 | 3.0 | 0.4 | 3.6 | 0.6 | 0.001 | 0.36 | 19.4 | 16 | 19.2 | 6.4 | 0.262 | 0.541 | 0.03 |
| 107841 | 3.7 | 0.5 | < 0.1 | 1.6 | 0.002 | 0.40 | 32.9 | 20 | 44.7 | 9.1 | 0.170 | 0.887 | 0.03 |
| 107842 | 7.7 | 1.0 | < 0.1 | < 0.1 | 0.002 | 0.42 | 61.1 | 25 | 68.8 | 37.9 | 0.0390 | 1.94 | 0.06 |
| 107843 | 6.6 | 0.9 | 10.5 | 9.7 | < 0.001 | 0.53 | 57.7 | 35 | 119 | 42.7 | 0.231 | 1.15 | 0.03 |
| 107844 | 4.5 | 0.6 | 1.3 | 3.2 | < 0.001 | 0.64 | 58.4 | 26 | 89.5 | 6.2 | 0.314 | 0.777 | 0.02 |
| 107845 | 4.1 | 0.5 | 3.1 | 4.8 | 0.002 | 1.07 | 147 | 33 | 156 | 1.6 | 0.486 | 0.341 | 0.03 |
| 107846 | 2.4 | 0.3 | 1.6 | 6.0 | 0.002 | 0.71 | 31.3 | 34 | 26.7 | 1.2 | 0.625 | 0.172 | 0.02 |
| 107847 | 1.2 | 0.2 | 1.5 | 8.7 | 0.002 | 0.36 | 16.0 | 30 | 6.6 | 0.7 | 0.874 | 0.120 | 0.01 |
| 107848 | 1.6 | 0.2 | 1.5 | 7.3 | 0.003 | 0.38 | 21.5 | 20 | 11.7 | 1.0 | 0.645 | 0.117 | 0.02 |
| 107849 | 1.3 | 0.2 | 0.7 | 4.0 | 0.002 | 0.30 | 15.6 | 22 | 6.0 | 1.0 | 0.609 | 0.108 | 0.01 |
| 107850 | 1.1 | 0.1 | < 0.1 | 2.2 | < 0.001 | 0.29 | 12.4 | 15 | 7.2 | 1.0 | 0.347 | 0.113 | 0.02 |
| 107851 | 1.2 | 0.2 | 0.3 | 2.5 | 0.002 | 0.45 | 18.0 | 12 | 13.5 | 1.2 | 0.314 | 0.113 | < 0.01 |
| 107852 | 1.3 | 0.2 | 0.4 | 2.4 | 0.004 | 0.43 | 18.3 | 12 | 13.5 | 1.4 | 0.335 | 0.167 | < 0.01 |
| 107853 | 1.3 | 0.2 | 0.3 | 2.2 | 0.003 | 0.41 | 17.0 | 12 | 11.8 | 2.4 | 0.336 | 0.160 | < 0.01 |
| 107854 | 1.5 | 0.2 | 0.2 | 2.0 | 0.001 | 0.41 | 19.7 | 13 | 16.0 | 1.8 | 0.312 | 0.165 | 0.03 |
| 107855 | 1.9 | 0.2 | 2.5 | 1.8 | < 0.001 | 0.43 | 25.4 | 13 | 29.1 | 1.8 | 0.276 | 0.302 | 0.02 |
| 107856 | 0.8 | 0.1 | 2.4 | 3.0 | 0.002 | 0.38 | 19.1 | 5 | 6.2 | 1.4 | 0.323 | 0.094 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107857 | 1.4 | 0.2 | 0.5 | 2.5 | < 0.001 | 0.38 | 22.6 | 18 | 15.0 | 1.6 | 0.342 | 0.258 | 0.01 |
| 107858 | 3.3 | 0.5 | 0.1 | 0.4 | 0.003 | 0.44 | 51.7 | 22 | 42.7 | 2.4 | 0.225 | 0.319 | 0.02 |
| 107859 | 2.0 | 0.3 | 1.1 | 2.8 | 0.001 | 0.69 | 28.6 | 20 | 28.4 | 2.2 | 0.496 | 0.238 | 0.02 |
| 107860 | 4.3 | 0.5 | 0.4 | 2.6 | < 0.001 | 0.67 | 44.7 | 20 | 47.3 | 3.0 | 0.331 | 0.304 | 0.02 |
| 107861 | 2.2 | 0.3 | 1.0 | 2.1 | < 0.001 | 0.50 | 35.0 | 20 | 35.7 | 5.1 | 0.395 | 0.247 | 0.02 |
| 107862 | 2.1 | 0.3 | 1.2 | 1.9 | 0.002 | 0.47 | 31.1 | 19 | 38.0 | 3.9 | 0.422 | 0.225 | 0.01 |
| 107863 | 1.4 | 0.2 | 0.6 | 2.4 | 0.003 | 0.42 | 21.0 | 15 | 21.6 | 1.8 | 0.402 | 0.143 | 0.01 |
| 107864 | 10.8 | 1.4 | < 0.1 | < 0.1 | < 0.001 | 1.30 | 62.7 | 29 | 107 | 15.6 | 0.0640 | 0.966 | 0.04 |
| 107865 | 2.3 | 0.3 | 0.6 | 1.1 | < 0.001 | 0.47 | 22.7 | 18 | 30.7 | 2.7 | 0.432 | 0.217 | 0.02 |
| 107866 | 1.7 | 0.2 | 22.0 | 3.4 | 0.001 | 0.38 | 22.4 | 19 | 7.6 | 14.3 | 0.372 | 0.401 | 0.04 |
| 107867 | 2.8 | 0.4 | 1.6 | 2.3 | 0.025 | 0.36 | 31.0 | 24 | 18.1 | 6.6 | 0.491 | 0.475 | 0.03 |
| 107868 | 1.1 | 0.1 | 1.4 | 2.9 | 0.001 | 0.25 | 8.8 | 20 | 19.7 | 1.8 | 0.314 | 0.194 | 0.02 |
| 107869 | 1.6 | 0.2 | 0.9 | 2.7 | 0.004 | 0.41 | 16.8 | 15 | 16.7 | 3.2 | 0.491 | 0.231 | 0.01 |
| 107870 | 3.4 | 0.4 | 1.4 | 2.0 | 0.002 | 0.34 | 22.3 | 22 | 31.9 | 14.8 | 0.184 | 0.385 | 0.02 |
| 107871 | 2.4 | 0.3 | 0.2 | 1.8 | 0.003 | 0.36 | 20.8 | 19 | 23.2 | 4.7 | 0.336 | 0.399 | 0.02 |
| 107872 | 3.2 | 0.4 | 6.7 | 1.6 | 0.004 | 0.38 | 24.8 | 18 | 27.1 | 8.4 | 0.177 | 0.671 | 0.03 |
| 107873 | 3.7 | 0.5 | 11.4 | 1.1 | 0.004 | 0.46 | 48.1 | 22 | 50.7 | 16.2 | 0.140 | 0.935 | 0.04 |
| 107874 | 3.6 | 0.5 | < 0.1 | 2.6 | 0.001 | 0.37 | 19.6 | 58 | 36.3 | 3.0 | 0.488 | 0.411 | 0.05 |
| 107875 | 3.4 | 0.5 | < 0.1 | 1.5 | < 0.001 | 0.88 | 18.5 | 35 | 33.2 | 7.2 | 0.174 | 0.454 | < 0.01 |
| 107876 | 2.5 | 0.3 | 4.4 | 2.4 | 0.002 | 0.31 | 28.7 | 22 | 24.2 | 6.9 | 0.565 | 0.432 | < 0.01 |
| 107877 | 3.7 | 0.5 | 1.6 | 1.2 | 0.001 | 0.50 | 26.0 | 30 | 56.1 | 17.2 | 0.136 | 0.490 | 0.05 |
| 107878 | 3.8 | 0.5 | < 0.1 | 0.9 | 0.002 | 0.44 | 37.6 | 24 | 50.4 | 10.0 | 0.0654 | 0.591 | 0.01 |
| 107879 | 2.2 | 0.3 | 0.4 | 1.6 | 0.002 | 0.44 | 23.5 | 18 | 23.6 | 4.7 | 0.171 | 0.280 | < 0.01 |
| 107880 | 2.1 | 0.3 | 1.8 | 2.1 | 0.001 | 0.43 | 32.8 | 18 | 20.7 | 3.9 | 0.468 | 0.352 | 0.02 |
| 107881 | 1.4 | 0.2 | < 0.1 | 2.1 | 0.002 | 0.33 | 12.9 | 17 | 7.0 | 2.0 | 0.435 | 0.107 | 0.02 |
| 107882 | 1.6 | 0.2 | < 0.1 | 2.5 | 0.002 | 0.10 | 3.4 | 25 | 4.0 | 0.8 | 0.626 | 0.134 | 0.03 |
| 107883 | 1.1 | 0.2 | < 0.1 | 2.4 | 0.002 | 0.16 | 9.1 | 17 | 6.0 | 0.8 | 0.448 | 0.098 | 0.02 |
| 107884 | 1.7 | 0.2 | < 0.1 | 2.1 | 0.001 | 0.26 | 15.2 | 19 | 10.4 | 1.3 | 0.579 | 0.052 | 0.02 |
| 107885 | 1.3 | 0.2 | 0.7 | 4.0 | 0.001 | 0.10 | 6.0 | 20 | 3.4 | 0.4 | 0.970 | 0.058 | 0.01 |
| 107886 | 1.1 | 0.2 | 0.8 | 4.3 | 0.002 | 0.15 | 9.0 | 35 | 4.5 | 0.7 | 0.741 | 0.058 | 0.01 |
| 107887 | 2.6 | 0.4 | < 0.1 | 1.0 | 0.005 | 0.10 | 27.1 | 46 | 33.1 | 0.3 | 0.488 | 0.173 | 0.02 |
| 107888 | 1.4 | 0.2 | < 0.1 | 2.2 | 0.003 | 0.26 | 12.7 | 22 | 12.9 | 1.0 | 0.629 | 0.104 | 0.02 |
| 107889 | 1.9 | 0.3 | < 0.1 | 1.8 | 0.004 | 0.34 | 19.5 | 27 | 20.3 | 0.9 | 0.493 | 0.091 | 0.02 |
| 107890 | 1.5 | 0.2 | < 0.1 | 1.8 | 0.001 | 0.24 | 18.2 | 28 | 21.3 | 1.2 | 0.370 | 0.116 | 0.03 |
| 107891 | 3.6 | 0.5 | < 0.1 | 1.6 | < 0.001 | 0.83 | 95.0 | 31 | 83.7 | 1.7 | 0.526 | 0.212 | 0.02 |
| 107892 | 10.0 | 1.3 | < 0.1 | < 0.1 | < 0.001 | 1.05 | 133 | 48 | 173 | 1.0 | 0.375 | 0.460 | 0.06 |
| 107893 | 9.7 | 1.3 | < 0.1 | < 0.1 | 0.001 | 1.82 | 214 | 75 | 169 | 4.5 | 0.372 | 0.608 | 0.08 |
| 107894 | 4.9 | 0.6 | 0.4 | 2.1 | 0.001 | 0.45 | 42.9 | 29 | 78.5 | 12.4 | 0.177 | 1.05 | 0.02 |
| 107895 | 1.2 | 0.2 | 1.1 | 5.4 | 0.003 | 0.38 | 33.1 | 12 | 9.1 | 0.7 | 0.552 | 0.088 | 0.02 |
| 107896 | 2.7 | 0.4 | 1.7 | 8.3 | 0.002 | 0.66 | 89.6 | 26 | 30.3 | 1.0 | 0.724 | 0.139 | 0.02 |
| 107897 | 1.7 | 0.2 | < 0.1 | 1.9 | 0.002 | 0.33 | 16.8 | 23 | 19.4 | 1.2 | 0.694 | 0.126 | 0.04 |
| 107898 | 1.2 | 0.2 | < 0.1 | 2.0 | 0.002 | 0.34 | 16.0 | 13 | 10.4 | 1.0 | 0.423 | 0.121 | 0.02 |
| 107899 | 1.5 | 0.2 | < 0.1 | 2.3 | 0.002 | 0.13 | 6.0 | 25 | 5.6 | 0.2 | 0.262 | 0.054 | < 0.01 |
| 107900 | 1.5 | 0.2 | < 0.1 | 2.3 | < 0.001 | 0.13 | 6.0 | 30 | 6.0 | 1.2 | 0.271 | 0.060 | 0.03 |
| 107901 | 2.0 | 0.3 | < 0.1 | 1.9 | 0.002 | 0.27 | 14.2 | 33 | 18.1 | 1.0 | 0.280 | 0.136 | 0.10 |
| 107902 | 1.6 | 0.2 | < 0.1 | 2.1 | 0.004 | 0.12 | 7.1 | 24 | 7.1 | 0.9 | 0.306 | 0.132 | 0.05 |
| 107903 | 1.4 | 0.2 | < 0.1 | 2.1 | 0.002 | 0.10 | 6.4 | 20 | 8.7 | 0.8 | 0.264 | 0.106 | 0.03 |
| 107904 | 1.4 | 0.2 | < 0.1 | 2.0 | 0.001 | 0.14 | 8.5 | 22 | 8.0 | 1.0 | 0.216 | 0.083 | 0.05 |
| 107905 | 0.7 | < 0.1 | 2.3 | 3.7 | 0.003 | 0.11 | 5.1 | 26 | 0.9 | 0.7 | 2.15 | 0.135 | 0.03 |
| 107906 | 1.3 | 0.2 | 1.1 | 3.8 | 0.001 | 0.28 | 12.9 | 20 | 7.7 | 0.8 | 1.04 | 0.096 | 0.02 |
| 107907 | 1.7 | 0.2 | < 0.1 | 2.0 | < 0.001 | 0.39 | 29.4 | 19 | 20.5 | 1.2 | 0.701 | 0.106 | 0.03 |
| 107908 | 2.0 | 0.3 | < 0.1 | 2.1 | 0.004 | 0.46 | 56.3 | 23 | 57.6 | 0.9 | 0.723 | 0.115 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107909 | 1.5 | 0.2 | < 0.1 | 1.9 | 0.002 | 0.75 | 189 | 20 | 82.4 | 0.8 | 0.467 | 0.108 | 0.02 |
| 107910 | 6.8 | 0.8 | < 0.1 | 2.8 | 0.002 | 0.60 | 48.0 | 37 | 110 | 19.6 | 0.521 | 0.319 | 0.07 |
| 107911 | 5.3 | 0.7 | 2.0 | 1.4 | 0.001 | 0.61 | 61.7 | 35 | 74.8 | 6.8 | 0.132 | 0.252 | 0.09 |
| 107912 | 4.8 | 0.6 | 0.3 | 1.5 | 0.001 | 0.32 | 41.1 | 38 | 74.3 | 21.0 | 0.252 | 0.460 | 0.09 |
| 107913 | 4.4 | 0.6 | 0.5 | 1.6 | < 0.001 | 0.57 | 47.3 | 34 | 69.1 | 5.7 | 0.129 | 0.316 | 0.02 |
| 107914 | 2.9 | 0.4 | < 0.1 | 1.4 | 0.002 | 0.49 | 24.1 | 26 | 47.1 | 3.6 | 0.340 | 0.386 | 0.02 |
| 107915 | 2.6 | 0.4 | 0.9 | 1.8 | 0.002 | 0.47 | 28.3 | 23 | 35.8 | 3.4 | 0.259 | 0.324 | < 0.01 |
| 107916 | 3.3 | 0.4 | < 0.1 | 1.3 | 0.002 | 0.52 | 32.7 | 29 | 39.7 | 6.8 | 0.293 | 0.365 | 0.01 |
| 107917 | 2.9 | 0.4 | < 0.1 | < 0.1 | 0.002 | 0.37 | 36.0 | 31 | 69.5 | 11.0 | 0.278 | 0.275 | < 0.01 |
| 107918 | 2.7 | 0.4 | 4.8 | < 0.1 | < 0.001 | 0.14 | 14.6 | 12 | 21.6 | 45.1 | 0.0656 | 0.790 | 0.15 |
| 107919 | 1.7 | 0.2 | < 0.1 | 1.2 | 0.003 | 0.28 | 14.3 | 13 | 13.3 | 25.2 | 0.0673 | 0.545 | 0.08 |
| 107920 | 2.7 | 0.4 | 2.2 | 2.9 | < 0.001 | 0.40 | 23.6 | 18 | 23.9 | 4.6 | 0.0883 | 0.330 | < 0.01 |
| 107921 | 2.8 | 0.4 | 2.4 | 2.9 | 0.002 | 0.36 | 29.9 | 20 | 23.4 | 12.6 | 0.261 | 0.670 | 0.01 |
| 107922 | 2.0 | 0.3 | 3.9 | 2.5 | < 0.001 | 0.24 | 16.3 | 18 | 18.6 | 33.2 | 0.0622 | 0.528 | 0.06 |
| 107923 | 2.1 | 0.3 | < 0.1 | 2.5 | < 0.001 | 0.44 | 26.9 | 22 | 22.9 | 5.2 | 0.201 | 0.251 | < 0.01 |
| 107924 | 3.0 | 0.4 | 0.2 | 1.6 | 0.005 | 0.46 | 71.4 | 24 | 44.4 | 9.7 | 0.326 | 0.425 | 0.08 |
| 107925 | 5.3 | 0.7 | 3.5 | 1.0 | < 0.001 | 0.45 | 31.8 | 23 | 46.8 | 4.6 | 0.273 | 0.316 | 0.02 |
| 107926 | 2.7 | 0.4 | 1.7 | 1.3 | < 0.001 | 0.39 | 22.3 | 19 | 30.6 | 6.1 | 0.212 | 0.262 | 0.02 |
| 107927 | 4.6 | 0.6 | 3.9 | 1.2 | 0.002 | 0.52 | 33.7 | 22 | 76.9 | 10.0 | 0.221 | 0.484 | 0.01 |
| 107928 | 3.3 | 0.4 | 2.9 | 1.3 | < 0.001 | 0.42 | 37.6 | 26 | 63.0 | 4.7 | 0.559 | 0.372 | 0.02 |
| 107929 | 20.8 | 2.8 | 14.0 | < 0.1 | < 0.001 | 0.31 | 151 | 36 | 101 | 262 | 0.0899 | 3.05 | 0.07 |
| 107930 | 2.5 | 0.3 | 1.4 | < 0.1 | 0.002 | 0.41 | 64.9 | 30 | 162 | 3.1 | 0.437 | 0.592 | 0.04 |
| 107931 | 1.8 | 0.2 | 0.4 | 2.1 | 0.002 | 0.41 | 29.8 | 11 | 18.4 | 3.3 | 0.301 | 0.305 | 0.01 |
| 107932 | 2.2 | 0.3 | 1.3 | 1.7 | 0.001 | 0.42 | 30.1 | 19 | 37.0 | 2.3 | 0.312 | 0.287 | 0.01 |
| 107933 | 1.0 | 0.2 | < 0.1 | 1.8 | 0.001 | 0.44 | 20.4 | 14 | 20.4 | 1.4 | 0.270 | 0.081 | < 0.01 |
| 107934 | 1.0 | 0.1 | < 0.1 | 2.4 | 0.004 | 0.39 | 18.5 | 11 | 9.0 | 1.1 | 0.299 | 0.088 | < 0.01 |
| 107935 | 1.4 | 0.2 | 0.2 | 2.1 | 0.002 | 0.41 | 18.8 | 13 | 12.2 | 1.4 | 0.334 | 0.117 | < 0.01 |
| 107936 | 1.1 | 0.2 | 0.1 | 2.1 | 0.001 | 0.35 | 16.6 | 12 | 10.5 | 1.2 | 0.323 | 0.103 | < 0.01 |
| 107937 | 1.0 | 0.1 | 0.1 | 2.4 | < 0.001 | 0.39 | 16.8 | 11 | 8.7 | 1.0 | 0.308 | 0.091 | < 0.01 |
| 107938 | 1.3 | 0.2 | 0.5 | 2.1 | 0.016 | 0.36 | 19.6 | 13 | 11.5 | 1.7 | 0.350 | 0.198 | 0.04 |
| 107939 | 1.2 | 0.2 | 0.5 | 2.1 | 0.002 | 0.37 | 17.2 | 12 | 12.0 | 1.2 | 0.311 | 0.139 | < 0.01 |
| 107940 | 1.1 | 0.2 | 0.3 | 2.1 | 0.002 | 0.35 | 17.3 | 11 | 12.2 | 1.4 | 0.332 | 0.105 | < 0.01 |
| 107941 | 1.0 | 0.1 | 0.9 | 2.6 | 0.003 | 0.37 | 16.5 | 8 | 6.1 | 1.0 | 0.366 | 0.117 | < 0.01 |
| 107942 | 3.8 | 0.5 | 2.7 | 1.9 | 0.001 | 0.46 | 40.7 | 28 | 49.1 | 13.3 | 0.0924 | 0.514 | 0.09 |
| 107943 | 3.0 | 0.4 | 2.4 | 2.9 | 0.001 | 0.40 | 22.4 | 24 | 32.5 | 4.9 | 0.261 | 0.225 | < 0.01 |
| 107944 | 2.2 | 0.3 | 2.8 | 2.8 | < 0.001 | 0.42 | 25.6 | 22 | 27.0 | 4.3 | 0.353 | 0.196 | < 0.01 |
| 107945 | 3.3 | 0.5 | 0.7 | 1.6 | < 0.001 | 0.45 | 28.8 | 21 | 30.3 | 3.6 | 0.266 | 0.330 | 0.03 |
| 107946 | 3.9 | 0.5 | 0.6 | 1.0 | 0.001 | 0.43 | 33.1 | 20 | 35.4 | 6.5 | 0.230 | 0.406 | 0.07 |
| 107947 | 7.9 | 1.1 | < 0.1 | < 0.1 | 0.004 | 0.31 | 112 | 56 | 195 | 6.6 | 0.211 | 0.408 | 0.10 |
| 107948 | 3.9 | 0.5 | 2.9 | 0.8 | < 0.001 | 0.33 | 39.4 | 27 | 53.6 | 13.8 | 0.195 | 0.530 | 0.03 |
| 107949 | 1.2 | 0.2 | 39.5 | 4.0 | 0.001 | 0.45 | 97.4 | 9 | 20.0 | 30.2 | 0.396 | 0.227 | 0.03 |
| 107950 | 1.3 | 0.2 | 1.2 | 2.0 | < 0.001 | 0.49 | 30.8 | 14 | 32.1 | 3.8 | 0.513 | 0.136 | 0.03 |
| 107951 | 1.8 | 0.2 | 1.5 | 2.6 | 0.001 | 0.48 | 30.5 | 15 | 32.2 | 3.2 | 0.533 | 0.191 | 0.02 |
| 107952 | 2.8 | 0.4 | 1.4 | 2.5 | 0.003 | 0.63 | 37.2 | 23 | 42.2 | 2.5 | 0.493 | 0.266 | 0.04 |
| 107953 | 1.6 | 0.2 | < 0.1 | 2.1 | 0.002 | 0.56 | 26.0 | 44 | 23.7 | 1.1 | 0.209 | 0.145 | 0.06 |
| 107954 | 2.0 | 0.3 | 0.3 | 1.7 | 0.002 | 0.54 | 32.9 | 18 | 30.6 | 2.1 | 0.325 | 0.206 | 0.02 |
| 107955 | 2.7 | 0.4 | 0.8 | 0.8 | 0.003 | 0.47 | 38.9 | 17 | 41.3 | 2.6 | 0.258 | 0.220 | 0.01 |
| 107956 | 1.8 | 0.2 | 0.9 | 1.8 | 0.002 | 0.42 | 26.9 | 14 | 30.4 | 1.8 | 0.318 | 0.227 | 0.02 |
| 107957 | 2.7 | 0.4 | 6.3 | 1.6 | 0.002 | 0.49 | 47.5 | 17 | 39.2 | 9.3 | 0.113 | 0.283 | 0.02 |
| 107958 | 3.4 | 0.4 | < 0.1 | 1.0 | < 0.001 | 0.45 | 31.6 | 19 | 46.7 | 3.0 | 0.118 | 0.428 | 0.01 |
| 107959 | 2.1 | 0.3 | 0.3 | 2.4 | 0.001 | 0.35 | 24.5 | 15 | 24.6 | 3.8 | 0.279 | 0.343 | 0.02 |
| 107960 | 1.4 | 0.2 | 0.9 | 2.0 | 0.001 | 0.36 | 18.2 | 11 | 13.1 | 1.6 | 0.315 | 0.186 | 0.01 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 107961 | 1.2 | 0.2 | 0.3 | 2.0 | 0.003 | 0.46 | 17.3 | 12 | 9.8 | 1.4 | 0.353 | 0.122 | < 0.01 |
| 107962 | 2.1 | 0.3 | 0.5 | 1.8 | 0.003 | 0.47 | 26.8 | 15 | 27.6 | 1.8 | 0.190 | 0.181 | 0.01 |
| 107963 | 4.2 | 0.5 | 0.7 | 0.5 | < 0.001 | 0.40 | 33.6 | 21 | 50.9 | 7.9 | 0.105 | 0.496 | 0.03 |
| 107964 | 2.8 | 0.4 | 0.9 | 1.4 | 0.001 | 0.55 | 39.2 | 20 | 30.9 | 4.8 | 0.141 | 0.325 | 0.02 |
| 107965 | 2.3 | 0.3 | < 0.1 | 1.1 | 0.001 | 0.47 | 37.1 | 15 | 38.1 | 3.3 | 0.114 | 0.260 | < 0.01 |
| 107966 | 1.4 | 0.2 | 1.2 | 2.8 | 0.003 | 0.45 | 22.9 | 13 | 20.1 | 1.5 | 0.396 | 0.190 | 0.02 |
| 107967 | 1.1 | 0.2 | 0.8 | 2.1 | 0.001 | 0.44 | 23.2 | 12 | 16.5 | 1.5 | 0.355 | 0.154 | 0.01 |
| 107968 | 1.1 | 0.2 | 0.4 | 1.9 | 0.002 | 0.36 | 20.1 | 11 | 16.5 | 1.3 | 0.296 | 0.150 | 0.01 |
| 107969 | 1.3 | 0.2 | 0.8 | 2.1 | 0.002 | 0.43 | 23.5 | 13 | 16.4 | 2.0 | 0.407 | 0.187 | 0.01 |
| 107970 | 2.8 | 0.4 | 1.2 | 1.9 | 0.002 | 0.47 | 45.4 | 16 | 34.7 | 9.9 | 0.326 | 0.375 | 0.02 |
| 107971 | 3.4 | 0.5 | 0.4 | 1.1 | 0.001 | 0.41 | 41.1 | 21 | 43.8 | 8.8 | 0.164 | 0.256 | 0.05 |
| 107972 | 3.7 | 0.6 | < 0.1 | 2.0 | 0.003 | 0.52 | 20.3 | 28 | 27.2 | 5.6 | 0.194 | 0.290 | 0.02 |
| 107973 | 13.7 | 1.7 | < 0.1 | < 0.1 | 0.007 | 0.52 | 138 | 38 | 180 | 35.4 | 0.123 | 0.849 | 0.09 |
| 107974 | 5.2 | 0.7 | < 0.1 | < 0.1 | 0.027 | 0.44 | 51.7 | 23 | 77.5 | 12.4 | 0.137 | 0.526 | 0.07 |
| 107975 | 6.4 | 0.9 | 0.5 | 1.2 | 0.001 | 0.44 | 58.5 | 32 | 98.4 | 11.5 | 0.314 | 0.701 | 0.03 |
| 106801 | 3.1 | 0.4 | 1.0 | 3.1 | 0.007 | 0.49 | 34.5 | 27 | 41.8 | 4.1 | 0.508 | 0.449 | 0.03 |
| 106802 | 3.8 | 0.5 | 1.3 | 2.3 | 0.001 | 0.40 | 41.6 | 23 | 62.3 | 5.9 | 0.341 | 0.586 | 0.12 |
| 106803 | 2.9 | 0.4 | 0.6 | 2.8 | 0.002 | 0.55 | 39.5 | 25 | 64.0 | 5.4 | 0.313 | 0.625 | 0.03 |
| 106804 | 7.9 | 1.0 | 2.4 | 6.0 | 0.003 | 0.38 | 49.0 | 46 | 125 | 7.2 | 0.216 | 0.552 | 0.06 |
| 106805 | 10.5 | 1.3 | < 0.1 | 1.0 | 0.015 | 0.40 | 83.6 | 34 | 118 | 16.3 | 0.0607 | 0.856 | 0.02 |
| 106806 | 3.0 | 0.4 | < 0.1 | 1.6 | 0.001 | 0.52 | 52.1 | 21 | 52.7 | 2.1 | 0.246 | 0.169 | 0.12 |
| 106807 | 3.0 | 0.4 | 0.5 | 2.2 | 0.002 | 0.51 | 57.4 | 20 | 64.7 | 3.1 | 0.389 | 0.177 | 0.04 |
| 106808 | 1.6 | 0.2 | < 0.1 | 2.4 | 0.001 | 0.39 | 33.6 | 19 | 23.3 | 0.9 | 0.157 | 0.059 | < 0.01 |
| 106809 | 1.6 | 0.2 | < 0.1 | 2.3 | 0.002 | 0.20 | 7.8 | 23 | 10.5 | 1.4 | 0.168 | 0.066 | 0.05 |
| 106810 | 1.6 | 0.2 | < 0.1 | 2.2 | < 0.001 | 0.25 | 16.4 | 20 | 13.0 | 0.8 | 0.160 | 0.103 | 0.02 |
| 106811 | 1.5 | 0.3 | < 0.1 | 2.3 | 0.001 | 0.15 | 10.7 | 24 | 21.4 | 1.5 | 0.231 | 0.099 | 0.04 |
| 106812 | 2.4 | 0.3 | < 0.1 | 2.3 | 0.003 | 0.08 | 8.6 | 26 | 9.6 | 1.2 | 0.120 | 0.037 | 0.03 |
| 106813 | 1.1 | 0.2 | 0.3 | 2.7 | 0.002 | 0.11 | 6.5 | 14 | 2.3 | 0.5 | 0.902 | 0.065 | 0.02 |
| 106814 | 1.5 | 0.2 | < 0.1 | 2.6 | 0.001 | 0.16 | 9.9 | 30 | 5.9 | 0.8 | 0.252 | 0.049 | 0.01 |
| 106815 | 1.9 | 0.3 | < 0.1 | 2.3 | 0.002 | 0.23 | 17.2 | 33 | 13.9 | 0.8 | 0.109 | 0.057 | 0.02 |
| 106816 | 1.5 | 0.2 | < 0.1 | 2.0 | 0.001 | 0.25 | 12.6 | 23 | 8.6 | 1.0 | 0.119 | 0.091 | 0.03 |
| 106817 | 2.3 | 0.3 | < 0.1 | 1.5 | < 0.001 | 0.38 | 37.4 | 23 | 33.0 | 1.0 | 0.150 | 0.101 | 0.02 |
| 106818 | 1.2 | 0.2 | < 0.1 | 3.0 | < 0.001 | 0.24 | 13.6 | 21 | 10.5 | 0.4 | 0.105 | 0.034 | < 0.01 |
| 106819 | 1.7 | 0.2 | < 0.1 | 2.4 | < 0.001 | 0.28 | 26.6 | 18 | 25.6 | 1.1 | 0.147 | 0.086 | 0.02 |
| 106820 | 1.8 | 0.3 | < 0.1 | 2.5 | < 0.001 | 0.26 | 26.3 | 24 | 25.3 | 1.1 | 0.122 | 0.064 | 0.02 |
| 106821 | 3.7 | 0.5 | 1.1 | 3.5 | 0.003 | 0.49 | 53.7 | 29 | 61.7 | 3.1 | 0.510 | 0.267 | 0.03 |
| 106822 | 4.7 | 0.6 | < 0.1 | 1.8 | 0.002 | 0.37 | 33.9 | 38 | 60.2 | 4.2 | 0.316 | 0.262 | 0.04 |
| 106823 | 2.8 | 0.4 | 3.9 | 4.8 | 0.002 | 0.43 | 38.5 | 19 | 35.3 | 4.2 | 0.399 | 0.330 | 0.01 |
| 106824 | 2.7 | 0.4 | 1.0 | 3.5 | 0.001 | 0.51 | 33.5 | 26 | 36.7 | 5.2 | 0.197 | 0.169 | 0.01 |
| 106825 | 4.1 | 0.6 | < 0.1 | 3.0 | 0.003 | 0.54 | 42.2 | 35 | 71.2 | 6.8 | 0.319 | 0.368 | 0.02 |
| 106826 | 4.7 | 0.6 | < 0.1 | 2.1 | < 0.001 | 0.46 | 48.5 | 34 | 54.2 | 7.2 | 0.408 | 0.386 | 0.02 |
| 106827 | 3.6 | 0.5 | < 0.1 | 3.6 | < 0.001 | 0.50 | 33.1 | 31 | 46.8 | 2.6 | 0.525 | 0.313 | < 0.01 |
| 106828 | 2.3 | 0.3 | 0.1 | 2.9 | 0.002 | 0.27 | 25.5 | 26 | 23.2 | 4.9 | 0.497 | 0.289 | 0.07 |
| 106829 | 4.4 | 0.6 | 2.2 | 2.6 | 0.001 | 0.38 | 39.4 | 28 | 42.1 | 9.3 | 0.426 | 0.502 | 0.05 |
| 106830 | 1.7 | 0.2 | 2.2 | 3.1 | 0.001 | 0.46 | 22.9 | 18 | 17.3 | 2.6 | 0.469 | 0.292 | 0.03 |
| 106831 | 1.3 | 0.2 | < 0.1 | 1.7 | 0.001 | 0.40 | 20.7 | 15 | 11.1 | 1.2 | 0.291 | 0.110 | 0.01 |
| 106832 | 2.9 | 0.4 | 1.5 | 3.0 | 0.001 | 0.49 | 21.8 | 26 | 28.6 | 7.2 | 0.434 | 0.398 | 0.03 |
| 106833 | 3.3 | 0.4 | 5.5 | 2.5 | 0.002 | 0.36 | 35.3 | 19 | 40.3 | 13.1 | 0.239 | 0.620 | 0.03 |
| 106834 | 2.9 | 0.4 | 1.0 | 2.7 | 0.001 | 0.42 | 23.4 | 22 | 33.2 | 26.6 | 0.113 | 0.298 | 0.04 |
| 106835 | 2.1 | 0.3 | 0.3 | 2.1 | 0.002 | 0.47 | 27.2 | 21 | 20.8 | 5.1 | 0.301 | 0.168 | 0.04 |
| 106836 | 5.2 | 0.7 | 0.6 | 1.3 | < 0.001 | 0.64 | 41.5 | 24 | 46.6 | 10.7 | 0.105 | 0.553 | 0.01 |
| 106837 | 4.0 | 0.5 | 3.0 | 1.9 | 0.002 | 0.51 | 37.6 | 21 | 56.1 | 4.3 | 0.245 | 0.331 | 0.12 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 106838 | 6.0 | 0.8 | < 0.1 | < 0.1 | < 0.001 | 0.41 | 63.1 | 34 | 105 | 14.7 | 0.151 | 0.757 | 0.04 |
| 106839 | 3.8 | 0.5 | 6.8 | 2.2 | 0.003 | 0.49 | 58.8 | 28 | 66.5 | 8.5 | 0.416 | 0.447 | 0.04 |
| 106840 | 4.8 | 0.6 | 2.5 | 0.8 | 0.001 | 0.46 | 67.2 | 24 | 80.6 | 8.2 | 0.375 | 0.500 | 0.04 |
| 106841 | 2.6 | 0.3 | 0.3 | 2.4 | 0.001 | 0.43 | 41.2 | 12 | 19.7 | 3.1 | 0.289 | 0.221 | 0.11 |
| 106842 | 3.8 | 0.5 | 1.7 | 2.7 | 0.002 | 0.63 | 50.6 | 26 | 57.5 | 4.4 | 0.329 | 0.205 | 0.01 |
| 106843 | 1.9 | 0.3 | 0.8 | 2.7 | 0.001 | 0.51 | 43.2 | 24 | 33.7 | 2.2 | 0.485 | 0.236 | 0.03 |
| 106844 | 3.3 | 0.4 | 1.2 | 1.6 | 0.002 | 0.61 | 46.8 | 24 | 49.0 | 3.4 | 0.233 | 0.293 | 0.01 |
| 106845 | 2.1 | 0.3 | < 0.1 | 1.7 | 0.002 | 0.44 | 49.1 | 12 | 12.8 | 5.6 | 0.131 | 0.589 | 0.03 |
| 106846 | 6.1 | 0.8 | 0.4 | 0.9 | 0.003 | 0.66 | 65.2 | 34 | 91.1 | 4.8 | 0.250 | 0.640 | 0.07 |
| 106847 | 0.9 | 0.1 | 0.4 | 1.7 | 0.002 | 0.54 | 21.6 | 13 | 12.7 | 1.6 | 0.284 | 0.155 | 0.03 |
| 106848 | 1.6 | 0.2 | 2.0 | 1.6 | 0.009 | 0.59 | 23.6 | 14 | 27.5 | 2.8 | 0.357 | 0.169 | 0.02 |
| 106849 | 1.3 | 0.2 | 1.0 | 1.8 | 0.003 | 0.42 | 21.8 | 11 | 16.2 | 1.8 | 0.302 | 0.209 | 0.02 |
| 106850 | 7.3 | 1.0 | < 0.1 | 2.2 | < 0.001 | 0.33 | 51.0 | 27 | 61.9 | 4.8 | 0.0996 | 1.17 | 0.02 |
| 106851 | 2.5 | 0.3 | < 0.1 | 2.0 | 0.002 | 0.28 | 18.0 | 28 | 16.1 | 2.5 | 0.117 | 0.217 | 0.02 |
| 106852 | 2.1 | 0.3 | 2.0 | 3.8 | 0.002 | 0.52 | 32.3 | 15 | 17.9 | 4.0 | 0.424 | 0.228 | 0.02 |
| 106853 | 3.0 | 0.4 | < 0.1 | 1.4 | < 0.001 | 0.52 | 48.0 | 21 | 54.6 | 4.5 | 0.165 | 0.201 | < 0.01 |
| 106854 | 3.0 | 0.4 | 1.1 | 2.4 | 0.003 | 0.51 | 48.5 | 24 | 49.6 | 5.5 | 0.398 | 0.367 | 0.04 |
| 106855 | 3.2 | 0.4 | 1.8 | 2.3 | 0.001 | 0.49 | 47.8 | 24 | 55.2 | 5.1 | 0.292 | 0.325 | 0.02 |
| 106856 | 5.3 | 0.7 | < 0.1 | < 0.1 | 0.001 | 0.50 | 41.0 | 24 | 65.6 | 15.8 | 0.146 | 0.635 | 0.01 |
| 106857 | 6.3 | 0.8 | 0.5 | 0.6 | < 0.001 | 0.62 | 59.6 | 17 | 65.0 | 13.5 | 0.142 | 0.399 | < 0.01 |
| 106858 | 2.5 | 0.3 | 0.4 | 1.8 | 0.002 | 0.44 | 34.1 | 23 | 34.0 | 2.7 | 0.504 | 0.231 | 0.02 |
| 106859 | 1.6 | 0.2 | < 0.1 | 1.8 | < 0.001 | 0.34 | 19.9 | 19 | 17.4 | 1.6 | 0.330 | 0.148 | 0.02 |
| 106860 | 2.6 | 0.3 | 0.6 | 2.1 | 0.002 | 0.42 | 22.1 | 23 | 30.8 | 2.6 | 0.592 | 0.224 | 0.02 |
| 106861 | 2.5 | 0.3 | 0.1 | 3.0 | < 0.001 | 0.49 | 23.0 | 24 | 29.1 | 8.3 | 0.534 | 0.292 | 0.01 |
| 106862 | 4.4 | 0.6 | 1.6 | 2.9 | < 0.001 | 0.42 | 38.1 | 33 | 50.0 | 16.9 | 0.231 | 0.625 | 0.02 |
| 106863 | 1.9 | 0.2 | 0.2 | 1.8 | 0.001 | 0.38 | 28.3 | 17 | 26.9 | 8.3 | 0.338 | 0.314 | 0.02 |
| 106864 | 2.6 | 0.3 | < 0.1 | 2.4 | < 0.001 | 0.50 | 16.8 | 23 | 21.6 | 4.6 | 0.339 | 0.228 | 0.03 |
| 106865 | 1.5 | 0.2 | 1.0 | 2.4 | 0.002 | 0.44 | 19.7 | 15 | 12.3 | 2.7 | 0.462 | 0.181 | 0.02 |
| 106866 | 5.4 | 0.7 | < 0.1 | 1.1 | 0.003 | 0.34 | 40.5 | 24 | 33.2 | 9.5 | 0.290 | 0.743 | 0.03 |
| 106867 | 5.8 | 0.7 | < 0.1 | 2.4 | 0.002 | 0.62 | 31.9 | 45 | 53.3 | 3.4 | 0.486 | 0.439 | 0.17 |
| 106868 | 2.8 | 0.4 | 0.8 | 2.2 | 0.003 | 0.39 | 26.1 | 25 | 45.2 | 5.6 | 0.498 | 0.339 | 0.03 |
| 106869 | 3.6 | 0.5 | 0.7 | 2.1 | 0.004 | 0.52 | 63.4 | 30 | 53.4 | 4.9 | 0.396 | 0.508 | 0.03 |
| 106870 | 3.6 | 0.5 | 0.5 | 3.3 | 0.001 | 0.54 | 39.5 | 27 | 48.8 | 4.2 | 0.445 | 0.451 | 0.04 |
| 106871 | 2.7 | 0.4 | 3.6 | 4.6 | 0.003 | 0.46 | 34.4 | 18 | 27.7 | 3.1 | 0.462 | 0.345 | 0.02 |
| 106872 | 3.0 | 0.4 | 1.5 | 3.7 | < 0.001 | 0.42 | 36.0 | 28 | 43.9 | 4.4 | 0.523 | 0.251 | 0.02 |
| 106873 | 3.7 | 0.5 | 0.9 | 3.0 | 0.003 | 0.50 | 49.1 | 26 | 55.4 | 3.2 | 0.338 | 0.250 | 0.04 |
| 106874 | 1.8 | 0.2 | < 0.1 | 1.5 | 0.016 | 0.29 | 21.9 | 20 | 18.5 | 1.2 | 0.127 | 0.097 | 0.04 |
| 106875 | 0.9 | 0.1 | < 0.1 | 1.9 | 0.001 | 0.13 | 8.2 | 15 | 7.4 | 0.4 | 0.173 | 0.046 | < 0.01 |
| 106876 | 2.2 | 0.3 | < 0.1 | 1.7 | 0.001 | 0.16 | 17.6 | 24 | 21.0 | 0.9 | 0.300 | 0.106 | 0.01 |
| 106877 | 2.0 | 0.3 | < 0.1 | 1.7 | 0.007 | 0.16 | 10.0 | 26 | 8.3 | 0.5 | 0.244 | 0.075 | 0.01 |
| 106878 | 1.4 | 0.2 | < 0.1 | 2.2 | 0.001 | 0.16 | 12.0 | 19 | 11.7 | 21.2 | 0.380 | 0.130 | 0.09 |
| 106879 | 1.3 | 0.2 | < 0.1 | 1.8 | 0.008 | 0.14 | 11.9 | 23 | 11.7 | 0.7 | 0.347 | 0.051 | 0.03 |
| 106880 | 1.3 | 0.2 | < 0.1 | 1.7 | 0.005 | 0.19 | 12.5 | 22 | 7.8 | 1.0 | 0.250 | 0.049 | 0.01 |
| 106881 | 1.9 | 0.3 | 1.6 | 3.0 | 0.004 | 0.24 | 20.4 | 21 | 18.4 | 8.4 | 0.756 | 0.148 | 0.09 |
| 106882 | 7.4 | 1.0 | < 0.1 | 1.5 | 0.005 | 0.59 | 19.0 | 29 | 42.9 | 42.6 | 0.125 | 0.411 | 0.01 |
| 106883 | 3.3 | 0.5 | < 0.1 | 1.4 | 0.003 | 0.22 | 19.6 | 28 | 40.9 | 10.3 | 0.319 | 0.252 | 0.01 |
| 106884 | 6.2 | 0.8 | < 0.1 | < 0.1 | 0.002 | 0.23 | 67.3 | 21 | 94.0 | 19.7 | 0.0645 | 0.896 | 0.02 |
| 106885 | 3.7 | 0.5 | 0.4 | 2.5 | < 0.001 | 0.27 | 47.6 | 23 | 36.0 | 9.0 | 0.366 | 0.456 | 0.02 |
| 106886 | 2.6 | 0.4 | < 0.1 | 1.4 | 0.002 | 0.25 | 16.3 | 25 | 14.2 | 1.1 | 0.292 | 0.200 | < 0.01 |
| 106887 | 3.0 | 0.4 | < 0.1 | 1.5 | 0.006 | 0.26 | 22.2 | 30 | 27.5 | 1.2 | 0.316 | 0.190 | 0.02 |
| 106888 | 2.2 | 0.3 | 0.2 | 1.6 | 0.001 | 0.31 | 19.0 | 23 | 19.6 | 2.1 | 0.378 | 0.203 | 0.01 |
| 106889 | 10.4 | 1.4 | < 0.1 | < 0.1 | 0.002 | 0.16 | 66.9 | 16 | 72.4 | 124 | 0.0391 | 3.33 | 0.06 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Ti | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 106890 | 5.6 | 0.7 | < 0.1 | 2.2 | 0.002 | 0.22 | 28.9 | 29 | 20.3 | 4.6 | 0.430 | 0.794 | 0.05 |
| 106891 | 1.4 | 0.2 | 0.3 | 1.6 | 0.003 | 0.22 | 17.5 | 16 | 20.1 | 3.0 | 0.397 | 0.295 | 0.02 |
| 106892 | 1.4 | 0.2 | 1.7 | 2.6 | 0.001 | 0.18 | 9.1 | 20 | 4.7 | 1.1 | 0.983 | 0.115 | 0.03 |
| 106893 | 1.8 | 0.2 | 0.6 | 1.6 | 0.002 | 0.29 | 14.8 | 14 | 35.6 | 5.5 | 0.188 | 0.261 | < 0.01 |
| 106894 | 9.9 | 1.3 | 0.5 | 0.6 | 0.003 | 0.25 | 61.1 | 46 | 172 | 10.2 | 0.424 | 0.444 | 0.06 |
| 106895 | 2.2 | 0.3 | < 0.1 | 1.4 | 0.002 | 0.32 | 24.0 | 21 | 20.7 | 1.9 | 0.378 | 0.180 | 0.02 |
| 106896 | 3.8 | 0.5 | < 0.1 | 0.8 | 0.002 | 0.44 | 50.4 | 26 | 109 | 12.9 | 0.382 | 0.189 | 0.06 |
| 106897 | 1.3 | 0.2 | < 0.1 | 1.4 | 0.002 | 0.55 | 16.6 | 14 | 10.7 | 12.2 | 0.175 | 0.114 | 0.04 |
| 106898 | 2.9 | 0.3 | < 0.1 | 1.1 | 0.002 | 0.21 | 25.1 | 26 | 33.1 | 1.2 | 0.196 | 0.103 | 0.12 |
| 106899 | 1.9 | 0.2 | < 0.1 | 1.1 | 0.002 | 0.21 | 20.0 | 25 | 26.1 | 1.5 | 0.272 | 0.148 | 0.01 |
| 106900 | 2.3 | 0.3 | < 0.1 | 1.2 | 0.002 | 0.29 | 21.1 | 30 | 21.3 | 0.8 | 0.185 | 0.126 | 0.02 |
| 92014 | 1.5 | 0.2 | 0.7 | 2.4 | 0.002 | 0.19 | 16.6 | 23 | 9.3 | 0.6 | 0.615 | 0.093 | 0.01 |
| 92015 | 1.8 | 0.2 | < 0.1 | 1.6 | 0.001 | 0.28 | 14.9 | 23 | 15.6 | 0.8 | 0.120 | 0.096 | 0.12 |
| 92016 | 3.2 | 0.5 | < 0.1 | 1.2 | 0.002 | 0.22 | 46.3 | 41 | 64.9 | 0.8 | 0.118 | 0.077 | 0.03 |
| 92017 | 1.3 | 0.2 | < 0.1 | 1.6 | < 0.001 | 0.22 | 8.9 | 29 | 9.6 | 11.3 | 0.136 | 0.063 | 0.01 |
| 92018 | 1.6 | 0.2 | < 0.1 | 1.4 | 0.003 | 0.26 | 13.9 | 27 | 12.1 | 1.8 | 0.128 | 0.089 | 0.05 |
| 92019 | 2.1 | 0.3 | < 0.1 | 1.4 | 0.001 | 0.26 | 13.1 | 30 | 21.3 | 0.9 | 0.175 | 0.106 | 0.02 |
| 92020 | 1.9 | 0.3 | < 0.1 | 1.4 | 0.001 | 0.20 | 11.7 | 28 | 14.4 | 0.8 | 0.219 | 0.090 | 0.01 |
| 92021 | 2.2 | 0.3 | < 0.1 | 1.4 | 0.002 | 0.22 | 12.1 | 30 | 12.2 | 1.0 | 0.233 | 0.106 | 0.01 |
| 92022 | 1.5 | 0.2 | < 0.1 | 1.5 | 0.002 | 0.22 | 13.4 | 22 | 11.0 | 0.8 | 0.235 | 0.082 | < 0.01 |
| 92023 | 1.0 | 0.1 | 0.1 | 1.6 | 0.002 | 0.21 | 11.5 | 14 | 4.9 | 0.5 | 0.445 | 0.096 | < 0.01 |
| 92024 | 1.2 | 0.2 | < 0.1 | 1.6 | 0.003 | 0.15 | 12.4 | 22 | 7.8 | 0.7 | 0.217 | 0.074 | 0.01 |
| 92025 | 2.2 | 0.3 | < 0.1 | 1.3 | < 0.001 | 0.25 | 112 | 23 | 14.6 | 3.3 | 0.124 | 0.117 | 0.06 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|--|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn | |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 | |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | |
| GXR-1 Meas | | 7.1 | 0.04 | 0.16 | 1.56 | 0.04 | 0.69 | 2.3 | 69 | 12.4 | 791 | 23.0 | 0.4 | 39.8 | | 0.9 | | 32.9 | 2.82 | 7.7 | 0.55 | 1480 | 16.2 | 750 | |
| GXR-1 Cert | | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 | |
| GXR-1 Meas | | 11.2 | 0.05 | 0.25 | 2.09 | 0.06 | 0.92 | 2.6 | 87 | 11.5 | 847 | 24.5 | 0.5 | 42.2 | | 1.3 | | 50.1 | 2.99 | 8.2 | 0.63 | 1390 | 16.5 | 752 | |
| GXR-1 Cert | | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 | |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | 10.6 | 0.51 | 1.50 | 5.97 | 2.48 | 0.92 | 0.1 | 81 | 53.4 | 147 | 3.15 | 1.2 | 43.2 | | 1.9 | | 2.18 | 2.77 | 15.1 | 1.35 | 18.7 | 6.3 | 73.7 | |
| GXR-4 Cert | | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 | |
| GXR-4 Meas | | 13.8 | 0.57 | 1.81 | 6.59 | 4.18 | 1.23 | 0.1 | 97 | 44.8 | 163 | 3.25 | 1.2 | 47.4 | | 2.5 | | 4.33 | 3.23 | 16.1 | 1.51 | 19.3 | 7.2 | 95.6 | |
| GXR-4 Cert | | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 | |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Meas | | 30.9 | 1.44 | 0.85 | 6.55 | 1.76 | 0.83 | < 0.1 | 45 | 47.3 | 820 | 4.61 | 0.8 | 36.0 | 3.3 | 2.5 | 1.1 | < 0.05 | 3.82 | 18.1 | 1.35 | 0.28 | | 101 | |
| SDC-1 Cert | | 34.00 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102.00 | 64.00 | 880.00 | 4.82 | 8.30 | 38.0 | 4.10 | 3.00 | 1.50 | 0.0410 | 4.00 | 18.0 | 1.70 | 2.60 | | 103.00 | |
| SDC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | 37.7 | 0.63 | 1.33 | 6.05 | 1.86 | 1.60 | 0.1 | 111 | 49.7 | 369 | 3.48 | | 28.4 | | 1.5 | | < 0.05 | 6.86 | 11.5 | | 0.35 | | 99.8 | |
| SCO-1 Cert | | 45 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 130 | 68.0 | 410 | 3.59 | | 27 | | 1.80 | | 0.134 | 7.80 | 11.00 | | 0.37 | | 100 | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | 30.8 | 0.09 | 0.34 | 8.61 | 1.43 | 0.13 | < 0.1 | 148 | 60.9 | 933 | 5.11 | 2.1 | 25.2 | | 1.0 | | < 0.05 | 3.36 | 13.4 | 0.35 | 0.16 | 1.0 | 118 | |
| GXR-6 Cert | | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 | |
| GXR-6 Meas | | 40.6 | 0.10 | 0.43 | > 10.0 | 1.78 | 0.17 | 0.1 | 206 | 70.1 | 992 | 5.30 | 2.9 | 27.0 | | 1.3 | | < 0.05 | 3.55 | 14.3 | 0.26 | 0.17 | 0.5 | 120 | |
| GXR-6 Cert | | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | 4.1 | | | | | | | 134 | 156 | | | | 281 | | | | | | 58.5 | 0.48 | | | 65.7 | |
| DNC-1a Cert | | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | 70.0 | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | > 5000 | | | | | 2630 | | | | 1.19 | | 86.1 | | | | 148 | |
| OREAS 13b (4-Acid) Cert | | | | | | | | | 8650 | | | | | 2247 | | | | 0.86 | | 75 | | | | 133 | |
| CDN-GS-1H Meas | | 888 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | 1020 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | 964 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | 970 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | 972.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | 247 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| CDN-GS-P2A Meas | 252 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 256 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 243 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 107539 Orig | | 50.3 | 2.02 | 1.06 | 6.00 | 1.25 | 2.01 | 0.4 | 164 | 166 | 2110 | 7.78 | 5.4 | 55.8 | 3.5 | 4.8 | 1.6 | < 0.05 | 1.07 | 19.5 | 8.93 | 0.30 | 0.9 | 64.5 |
| 107539 Dup | | 54.3 | 2.17 | 1.17 | 6.48 | 1.33 | 2.11 | 0.4 | 169 | 181 | 2150 | 7.79 | 5.1 | 57.6 | 3.5 | 5.9 | 1.5 | < 0.05 | 1.06 | 19.5 | 8.91 | 0.29 | 1.0 | 66.4 |
| 107553 Orig | | 60.0 | > 3.00 | 1.88 | 6.79 | 0.78 | 1.34 | < 0.1 | 235 | 531 | 1360 | 8.44 | 3.4 | 183 | 1.6 | 8.0 | 0.6 | < 0.05 | 2.42 | 60.1 | 1.32 | 0.04 | < 0.1 | 57.7 |
| 107553 Dup | | 57.1 | > 3.00 | 1.88 | 6.93 | 1.01 | 1.40 | < 0.1 | 205 | 507 | 1380 | 8.13 | 3.2 | 180 | 1.8 | 8.1 | 0.6 | < 0.05 | 2.61 | 59.7 | 1.45 | 0.04 | < 0.1 | 62.5 |
| 107556 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107556 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107572 Orig | | 55.6 | 1.24 | 2.62 | 4.63 | 1.52 | 3.39 | 1.5 | 183 | 122 | 5620 | 12.4 | 2.8 | 53.6 | 14.0 | 29.2 | 6.1 | < 0.05 | 2.11 | 52.8 | 24.4 | 0.82 | 3.9 | 267 |
| 107572 Dup | | 56.2 | 1.26 | 2.66 | 4.68 | 1.59 | 3.42 | 1.6 | 189 | 133 | 5800 | 12.6 | 2.8 | 54.5 | 14.0 | 28.7 | 6.1 | < 0.05 | 2.13 | 54.1 | 24.8 | 0.81 | 4.1 | 277 |
| 107584 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107584 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107586 Orig | | 56.4 | 1.84 | 2.24 | 5.54 | 1.69 | 2.66 | 0.3 | 118 | 106 | 1640 | 5.44 | 4.1 | 57.0 | 4.3 | 6.3 | 1.7 | < 0.05 | 2.28 | 22.1 | 5.56 | 0.12 | 0.5 | 123 |
| 107586 Dup | | 55.8 | 1.81 | 2.24 | 5.46 | 1.65 | 2.60 | 0.3 | 120 | 106 | 1660 | 5.48 | 4.3 | 56.7 | 4.3 | 4.9 | 1.7 | < 0.05 | 2.28 | 22.0 | 5.60 | 0.12 | 0.9 | 124 |
| 107632 Orig | | 25.2 | 2.45 | 1.25 | 2.72 | 1.39 | 0.94 | 0.1 | 150 | 119 | 1070 | 5.92 | 4.4 | 78.5 | 1.4 | 5.4 | 0.5 | < 0.05 | 2.33 | 31.1 | 1.69 | 0.09 | 0.5 | 88.6 |
| 107632 Dup | | 26.8 | 2.51 | 1.50 | 4.82 | 1.46 | 1.14 | 0.1 | 158 | 117 | 1090 | 6.22 | 4.8 | 76.9 | 1.8 | 4.3 | 0.7 | < 0.05 | 3.56 | 31.1 | 2.51 | 0.09 | 0.9 | 83.2 |
| 107639 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107639 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107646 Orig | | 44.7 | 1.57 | 1.76 | 5.36 | 2.28 | 2.96 | 0.6 | 130 | 87.1 | 1700 | 10.7 | 1.8 | 50.9 | 7.6 | 9.0 | 3.3 | < 0.05 | 1.85 | 26.2 | 16.0 | 0.51 | 3.0 | 400 |
| 107646 Dup | | 43.8 | 1.57 | 1.74 | 5.38 | 2.22 | 2.88 | 0.7 | 126 | 92.9 | 1650 | 10.4 | 2.7 | 49.7 | 7.6 | 7.8 | 3.4 | < 0.05 | 1.87 | 25.1 | 16.6 | 0.55 | 3.2 | 383 |
| 107667 Orig | | 19.9 | 1.74 | 0.82 | 4.77 | 1.36 | 1.79 | 0.9 | 96 | 196 | 3780 | 6.66 | 3.7 | 74.4 | 3.4 | 5.9 | 1.4 | < 0.05 | 1.97 | 21.6 | 6.74 | 0.20 | 1.4 | 114 |
| 107667 Dup | | 20.0 | 1.77 | 0.83 | 4.83 | 1.39 | 1.89 | 0.9 | 102 | 202 | 3940 | 6.74 | 3.8 | 76.8 | 3.4 | 8.3 | 1.5 | < 0.05 | 1.99 | 22.4 | 6.77 | 0.20 | 1.4 | 116 |
| 107683 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107683 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107692 Orig | | 47.8 | 1.60 | 1.54 | 5.49 | 3.35 | 0.57 | 0.1 | 137 | 93.8 | 746 | 10.5 | 3.3 | 73.8 | 1.4 | 6.5 | 0.5 | < 0.05 | 1.48 | 38.1 | 3.46 | 0.20 | 0.3 | 168 |
| 107692 Dup | | 46.7 | 1.60 | 1.51 | 5.34 | 3.25 | 0.57 | 0.1 | 129 | 97.2 | 715 | 10.1 | 3.2 | 73.0 | 1.3 | 9.4 | 0.5 | < 0.05 | 1.39 | 37.6 | 3.32 | 0.20 | 0.4 | 162 |
| 107806 Orig | | 13.8 | 2.25 | 0.72 | 6.41 | 2.04 | 1.19 | < 0.1 | 52 | 52.8 | 410 | 2.69 | 3.9 | 24.4 | 1.0 | 1.0 | 0.4 | < 0.05 | 1.57 | 8.9 | 0.78 | 0.06 | < 0.1 | 32.8 |
| 107806 Dup | | 13.5 | 2.30 | 0.71 | 6.15 | 2.02 | 1.18 | 0.1 | 51 | 51.5 | 422 | 2.77 | 4.2 | 27.8 | 0.9 | 1.1 | 0.3 | < 0.05 | 1.53 | 9.0 | 0.78 | 0.07 | 0.2 | 32.3 |
| 107813 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107813 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107827 Orig | | 15.9 | 2.33 | 0.83 | 5.93 | 1.81 | 1.37 | 0.1 | 59 | 47.2 | 568 | 3.23 | 4.9 | 30.0 | 1.4 | 1.2 | 0.5 | < 0.05 | 1.50 | 11.2 | 1.35 | 0.08 | 0.4 | 45.0 |
| 107827 Dup | | 14.5 | 2.19 | 0.71 | 2.65 | 1.04 | 0.84 | < 0.1 | 59 | 68.4 | 548 | 2.83 | 4.4 | 28.5 | 0.9 | 1.7 | 0.3 | < 0.05 | 1.00 | 10.8 | 0.76 | 0.08 | < 0.1 | 40.1 |
| 107841 Orig | | 48.4 | 1.30 | 1.74 | 4.23 | 1.23 | 3.94 | 1.0 | 85 | 68.1 | 5800 | 8.17 | 0.5 | 43.3 | 6.2 | 4.3 | 2.6 | < 0.05 | 1.79 | 22.7 | 11.3 | 0.25 | 2.2 | 205 |
| 107841 Dup | | 49.7 | 1.36 | 1.84 | 4.46 | 1.28 | 4.08 | 1.1 | 89 | 76.6 | 6080 | 8.40 | 1.2 | 45.7 | 6.0 | 4.7 | 2.6 | < 0.05 | 1.86 | 23.8 | 11.9 | 0.24 | 2.4 | 214 |
| 107843 Orig | 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 107843 Dup | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 107862 Orig | | 37.2 | 2.13 | 1.42 | 6.39 | 1.73 | 1.44 | 0.2 | 88 | 91.0 | 1310 | 4.73 | 3.5 | 69.6 | 3.3 | 3.6 | 1.4 | < 0.05 | 2.05 | 18.3 | 6.58 | 0.22 | 1.5 | 144 |
| 107862 Dup | | 36.6 | 2.04 | 1.36 | 6.07 | 1.61 | 1.46 | 0.2 | 82 | 95.3 | 1280 | 4.58 | 3.5 | 70.9 | 3.3 | 3.7 | 1.4 | < 0.05 | 2.06 | 17.6 | 6.53 | 0.20 | 1.5 | 140 |
| 107876 Orig | | 46.5 | 1.14 | 2.14 | 4.31 | 0.92 | 2.66 | 0.4 | 151 | 31.4 | 2730 | 8.64 | 0.4 | 35.4 | 5.7 | 7.5 | 2.6 | < 0.05 | 1.48 | 24.4 | 13.6 | 0.18 | 2.0 | 128 |
| 107876 Dup | | 39.4 | 1.07 | 1.68 | 1.35 | 0.71 | 2.44 | 0.4 | 148 | 48.7 | 2620 | 8.04 | 3.1 | 33.0 | 3.2 | 6.6 | 1.4 | < 0.05 | 0.68 | 23.0 | 7.14 | 0.17 | 1.3 | 118 |
| 107888 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107888 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107897 Orig | | 28.4 | 1.99 | 1.78 | 5.61 | 1.50 | 1.56 | 0.3 | 143 | 92.4 | 1450 | 7.03 | 4.5 | 67.2 | 2.4 | 3.8 | 1.0 | < 0.05 | 2.86 | 32.5 | 3.97 | 0.14 | 1.1 | 101 |
| 107897 Dup | | 27.3 | 2.08 | 1.81 | 5.79 | 1.56 | 1.68 | 0.3 | 122 | 87.1 | 1430 | 7.05 | 3.2 | 67.9 | 2.3 | 3.1 | 1.0 | 0.30 | 2.74 | 33.1 | 3.85 | 0.19 | 1.0 | 103 |
| 107918 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 107918 Dup | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 107923 Orig | | 40.3 | 1.86 | 2.46 | 6.02 | 1.49 | 3.81 | 0.3 | 115 | 81.4 | 1700 | 7.53 | 0.2 | 81.8 | 3.1 | 4.2 | 1.3 | < 0.05 | 1.99 | 30.0 | 5.30 | 0.15 | 0.7 | 202 |
| 107923 Dup | | 42.6 | 1.97 | 2.58 | 6.26 | 1.51 | 4.06 | 0.3 | 117 | 84.3 | 1760 | 7.81 | < 0.1 | 88.7 | 3.3 | 4.5 | 1.4 | < 0.05 | 2.08 | 31.7 | 5.55 | 0.18 | 0.9 | 214 |
| 107937 Orig | | 17.4 | 2.61 | 0.94 | 7.47 | 2.30 | 1.63 | 0.1 | 63 | 68.2 | 626 | 3.92 | 4.3 | 39.2 | 1.3 | 1.4 | 0.4 | < 0.05 | 1.60 | 14.9 | 1.01 | 0.09 | 0.3 | 57.8 |
| 107937 Dup | | 18.1 | 2.86 | 1.01 | 7.96 | 2.49 | 1.77 | 0.1 | 67 | 83.3 | 651 | 4.07 | 4.6 | 39.7 | 1.2 | 1.4 | 0.4 | < 0.05 | 1.57 | 15.0 | 1.01 | 0.06 | 0.2 | 58.2 |
| 107948 Orig | 12 | | | | | | | | | | | | | | | | | | | | | | | |
| 107948 Dup | 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 107958 Orig | | 69.7 | 1.90 | 2.17 | 5.53 | 1.44 | 2.80 | 0.4 | 106 | 75.4 | 2270 | 6.00 | 0.1 | 46.7 | 5.2 | 4.6 | 2.2 | < 0.05 | 2.62 | 19.0 | 8.97 | 0.28 | 1.7 | 225 |

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Quality Control

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-------------------------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 9.0 | 356 | 2.4 | 23.4 | 259 | 18 | 1.0 | 16.2 | 0.7 | 31 | 68.0 | 13.4 | 639 | 6.8 | 13.5 | | 7.6 | 2.5 | 3.8 | 0.7 | 4.4 | 1100 | | 0.3 |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 |
| GXR-1 Meas | 9.9 | 419 | 2.6 | 30.1 | 295 | 23 | 1.2 | 17.8 | 0.8 | 35 | 112 | 13.1 | 706 | 7.4 | 14.9 | | 8.5 | 2.9 | 4.2 | 0.8 | 5.1 | 1080 | | 0.4 |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | 16.9 | 89.9 | 121 | 12.6 | 209 | 40 | 8.7 | 297 | 0.2 | 7 | 5.2 | 1.1 | 398 | 55.6 | 104 | | 38.7 | 6.0 | 4.7 | 0.5 | 2.7 | 6780 | | 0.2 |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 |
| GXR-4 Meas | 18.9 | 109 | 172 | 15.6 | 244 | 45 | 9.8 | 354 | 0.2 | 8 | 5.6 | 0.7 | 383 | 61.8 | 116 | | 42.5 | 6.5 | 5.1 | 0.6 | 3.0 | 6370 | | 0.2 |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-4 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Meas | 20.3 | 0.6 | 89.3 | 28.5 | 157 | 33 | 4.8 | 0.3 | | < 1 | 1.2 | | 570 | 34.5 | 78.3 | | 33.8 | 6.7 | 6.4 | 0.9 | 5.7 | 31.8 | | 0.5 |
| SDC-1 Cert | 21.00 | 0.220 | 127.00 | 40.0 | 180.00 | 290.00 | 21.00 | 0.250 | | 3.00 | 0.54 | | 630 | 42.00 | 93.00 | | 40.00 | 8.20 | 7.00 | 1.20 | 6.70 | 30.00 | | 0.65 |
| SDC-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SDC-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | 16.4 | 10.0 | 95.9 | 17.1 | 149 | 84 | 4.1 | 1.1 | | 2 | 4.2 | | 486 | 24.1 | 47.3 | 5.6 | 21.1 | | | | | 27.4 | | |
| SCO-1 Cert | 15 | 12.00 | 110.0 | 26 | 170 | 160 | 11 | 1.4 | | 3.7 | 2.50 | | 570 | 30.0 | 62.00 | 6.6 | 26.0 | | | | | 29 | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | 29.1 | 247 | 48.3 | 6.8 | 28.6 | 75 | 3.2 | 1.7 | < 0.1 | < 1 | 1.4 | < 0.1 | 1060 | 6.1 | 16.9 | | 6.4 | 1.4 | 1.4 | 0.2 | 1.4 | 66.2 | | 0.2 |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 |
| GXR-6 Meas | 31.1 | 324 | 35.8 | 4.5 | 31.4 | 105 | 6.6 | 2.2 | < 0.1 | 1 | 1.1 | < 0.1 | 1200 | 2.6 | 8.6 | | 4.1 | 1.0 | 1.1 | 0.2 | 1.3 | 68.0 | | 0.2 |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| GXR-6 Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | 13.6 | 128 | 31 | | | | | 2.3 | | 88 | 3.0 | | | 4.0 | | | | | 99.0 | | |
| DNC-1a Cert | | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | 5.20 | | | | | 100 | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 13b (4-Acid) Meas | | 46.1 | | | | | | 9.1 | | | | | | | | | | | | | | 2510 | | |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | 2300.000 | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |

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Quality Control

| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 107539 Orig | 15.8 | 2.9 | 35.7 | 36.7 | 323 | 230 | 466 | 13.0 | 0.2 | 3 | 2.3 | 0.4 | 532 | 363 | 711 | 77.9 | 268 | 37.2 | 25.8 | 2.4 | 10.5 | 18.0 | 0.9 | 0.4 |
| 107539 Dup | 16.5 | 3.8 | 35.1 | 36.4 | 329 | 219 | 449 | 13.4 | 0.1 | 3 | 2.8 | 0.6 | 532 | 352 | 704 | 77.5 | 265 | 36.6 | 24.8 | 2.4 | 10.4 | 19.2 | 0.8 | 0.4 |
| 107553 Orig | 16.5 | < 0.1 | 10.6 | 14.2 | 134 | 194 | 32.5 | 5.9 | < 0.1 | < 1 | 1.4 | < 0.1 | 434 | 31.6 | 68.5 | 8.2 | 30.5 | 4.8 | 3.9 | 0.5 | 3.0 | 32.6 | 1.0 | 0.2 |
| 107553 Dup | 16.4 | < 0.1 | 21.9 | 16.7 | 146 | 180 | 23.3 | 4.7 | < 0.1 | < 1 | 6.5 | < 0.1 | 470 | 36.5 | 76.8 | 9.1 | 33.4 | 5.2 | 4.1 | 0.5 | 3.3 | 33.9 | 1.0 | 0.3 |
| 107556 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107556 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107572 Orig | 12.7 | 13.7 | 40.1 | 142 | 483 | 135 | 354 | 35.2 | 0.3 | 7 | 3.2 | 0.4 | 597 | 648 | 1300 | 164 | 596 | 90.0 | 69.2 | 8.0 | 39.3 | 22.3 | 1.5 | 1.7 |
| 107572 Dup | 14.0 | 14.2 | 41.5 | 148 | 501 | 138 | 378 | 37.4 | 0.3 | 8 | 0.5 | 0.4 | 592 | 656 | 1320 | 165 | 607 | 92.7 | 69.4 | 7.9 | 38.9 | 23.1 | 1.6 | 1.7 |
| 107584 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107584 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107586 Orig | 14.6 | 1.9 | 81.0 | 44.3 | 411 | 176 | 251 | 27.2 | < 0.1 | 2 | 2.0 | 0.2 | 604 | 165 | 307 | 36.3 | 131 | 20.7 | 16.3 | 1.9 | 10.2 | 28.2 | 0.4 | 0.5 |
| 107586 Dup | 14.1 | 2.2 | 80.5 | 45.0 | 408 | 186 | 273 | 27.1 | < 0.1 | 2 | 0.6 | 0.3 | 608 | 166 | 310 | 36.9 | 131 | 20.8 | 16.7 | 1.9 | 10.2 | 26.0 | 0.4 | 0.5 |
| 107632 Orig | 17.2 | 1.1 | 11.8 | 9.4 | 164 | 172 | 59.8 | 5.7 | < 0.1 | 1 | 1.2 | 0.2 | 528 | 25.8 | 61.3 | 7.6 | 29.9 | 6.1 | 5.1 | 0.6 | 3.2 | 87.0 | 0.5 | 0.2 |
| 107632 Dup | 16.5 | 1.2 | 25.7 | 15.8 | 198 | 200 | 62.2 | 6.0 | < 0.1 | 1 | 2.1 | 0.2 | 551 | 50.1 | 106 | 12.6 | 47.9 | 9.0 | 7.6 | 0.9 | 4.3 | 85.0 | 0.6 | 0.2 |
| 107639 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107639 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107646 Orig | 14.1 | 4.5 | 82.1 | 79.0 | 514 | 110 | 166 | 118 | 0.2 | < 1 | 0.4 | 0.4 | 708 | 629 | 1180 | 125 | 441 | 63.8 | 45.6 | 4.6 | 21.6 | 34.1 | 1.3 | 0.9 |
| 107646 Dup | 13.4 | 5.2 | 78.0 | 75.4 | 488 | 140 | 156 | 115 | 0.2 | 2 | 0.8 | 0.3 | 724 | 632 | 1180 | 125 | 444 | 65.4 | 48.3 | 4.8 | 22.0 | 32.7 | 1.3 | 0.9 |
| 107667 Orig | 10.6 | 3.2 | 58.4 | 33.5 | 371 | 145 | 415 | 25.8 | < 0.1 | 3 | 0.8 | 0.6 | 538 | 988 | 1250 | 97.1 | 262 | 28.1 | 21.1 | 1.9 | 8.9 | 26.6 | 0.7 | 0.4 |
| 107667 Dup | 11.8 | 3.1 | 61.5 | 34.2 | 398 | 153 | 397 | 26.5 | < 0.1 | 3 | 6.2 | 0.6 | 532 | 994 | 1250 | 95.8 | 263 | 28.1 | 22.9 | 2.0 | 9.1 | 28.2 | 0.8 | 0.5 |
| 107683 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107683 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107692 Orig | 20.9 | < 0.1 | 43.9 | 11.7 | 111 | 135 | 34.1 | 3.8 | 0.1 | < 1 | 3.5 | < 0.1 | 409 | 57.5 | 120 | 14.2 | 60.0 | 14.0 | 8.9 | 0.8 | 3.5 | 56.6 | 0.5 | 0.2 |
| 107692 Dup | 20.1 | < 0.1 | 38.6 | 10.7 | 108 | 128 | 39.6 | 6.0 | < 0.1 | < 1 | 0.9 | < 0.1 | 404 | 49.9 | 107 | 12.8 | 55.2 | 13.3 | 8.4 | 0.8 | 3.3 | 53.7 | 0.4 | 0.2 |
| 107806 Orig | 15.3 | 1.5 | 75.9 | 9.0 | 295 | 146 | 9.6 | 0.7 | < 0.1 | < 1 | 0.8 | 0.2 | 655 | 25.0 | 51.3 | 5.5 | 19.8 | 3.3 | 2.8 | 0.3 | 1.8 | 10.5 | 0.6 | 0.1 |
| 107806 Dup | 16.4 | 1.6 | 69.2 | 8.7 | 283 | 160 | 9.3 | 0.7 | < 0.1 | < 1 | 14.8 | < 0.1 | 657 | 23.6 | 49.8 | 5.5 | 20.0 | 3.4 | 2.8 | 0.3 | 1.8 | 10.1 | 0.4 | 0.1 |
| 107813 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107813 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107827 Orig | 13.3 | 2.2 | 64.0 | 11.8 | 304 | 178 | 25.2 | 1.2 | < 0.1 | < 1 | 4.5 | < 0.1 | 675 | 41.8 | 89.9 | 9.7 | 34.7 | 5.7 | 4.6 | 0.5 | 2.9 | 15.9 | 0.6 | 0.2 |
| 107827 Dup | 12.3 | 2.0 | 23.3 | 6.3 | 233 | 168 | 26.6 | 1.5 | < 0.1 | < 1 | 0.9 | < 0.1 | 605 | 17.7 | 44.6 | 5.1 | 19.0 | 3.4 | 2.7 | 0.3 | 1.8 | 14.7 | 0.8 | 0.1 |
| 107841 Orig | 10.5 | 4.2 | 49.6 | 57.4 | 744 | 56 | 13.8 | 18.2 | 0.2 | < 1 | < 0.1 | 0.2 | 551 | 452 | 831 | 88.1 | 308 | 43.4 | 34.5 | 3.5 | 16.3 | 28.1 | 1.0 | 0.7 |
| 107841 Dup | 10.7 | 4.4 | 52.6 | 61.9 | 803 | 94 | 39.3 | 19.7 | 0.2 | < 1 | < 0.1 | 0.2 | 582 | 479 | 885 | 93.8 | 325 | 46.1 | 36.6 | 3.6 | 16.7 | 28.9 | 1.0 | 0.7 |
| 107843 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107843 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107862 Orig | 16.2 | 2.6 | 78.1 | 33.3 | 312 | 143 | 68.3 | 4.3 | < 0.1 | 2 | 11.2 | 0.2 | 663 | 215 | 405 | 46.3 | 166 | 25.1 | 19.3 | 2.0 | 8.9 | 28.4 | 0.6 | 0.4 |
| 107862 Dup | 14.5 | 2.7 | 74.9 | 33.0 | 308 | 143 | 62.9 | 4.1 | < 0.1 | 2 | 6.2 | < 0.1 | 657 | 216 | 407 | 46.1 | 165 | 25.2 | 19.3 | 1.9 | 8.9 | 27.8 | 0.6 | 0.4 |
| 107876 Orig | 11.6 | 1.1 | 30.3 | 54.2 | 413 | 46 | 38.4 | 7.6 | 0.1 | < 1 | < 0.1 | < 0.1 | 490 | 489 | 983 | 108 | 394 | 55.1 | 39.6 | 3.9 | 17.1 | 39.6 | 1.3 | 0.6 |
| 107876 Dup | 12.0 | 1.8 | 2.9 | 22.8 | 378 | 161 | 282 | 8.6 | 0.1 | 2 | 2.9 | 0.5 | 445 | 197 | 437 | 52.1 | 195 | 28.5 | 19.7 | 2.0 | 9.4 | 37.3 | 1.4 | 0.4 |
| 107888 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107888 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107897 Orig | 16.0 | 0.9 | 65.5 | 24.3 | 229 | 191 | 5.3 | 1.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 545 | 142 | 249 | 27.3 | 96.8 | 15.0 | 11.9 | 1.3 | 6.2 | 91.4 | 0.4 | 0.3 |
| 107897 Dup | 18.2 | 0.3 | 67.4 | 23.7 | 228 | 147 | 0.8 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 517 | 139 | 245 | 27.0 | 95.5 | 14.7 | 11.7 | 1.3 | 5.9 | 96.2 | 0.5 | 0.3 |
| 107918 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107918 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107923 Orig | 19.2 | 1.0 | 65.2 | 31.0 | 444 | 30 | 19.1 | 14.2 | 0.1 | < 1 | < 0.1 | < 0.1 | 514 | 168 | 327 | 36.7 | 131 | 20.5 | 16.1 | 1.7 | 8.0 | 50.5 | 0.7 | 0.4 |
| 107923 Dup | 21.0 | 0.9 | 67.2 | 32.7 | 452 | 14 | 2.8 | 14.4 | 0.1 | < 1 | < 0.1 | < 0.1 | 533 | 170 | 337 | 38.2 | 138 | 21.5 | 16.6 | 1.7 | 8.4 | 55.5 | 0.6 | 0.4 |
| 107937 Orig | 21.6 | 1.3 | 75.3 | 11.6 | 321 | 165 | 7.5 | 0.5 | < 0.1 | < 1 | < 0.1 | < 0.1 | 636 | 29.6 | 63.8 | 6.7 | 24.4 | 4.3 | 3.6 | 0.4 | 2.4 | 17.9 | 0.5 | 0.2 |
| 107937 Dup | 24.0 | 1.6 | 75.7 | 11.5 | 332 | 173 | 8.7 | 0.4 | < 0.1 | < 1 | < 0.1 | < 0.1 | 627 | 30.0 | 65.3 | 6.9 | 25.3 | 4.3 | 3.6 | 0.4 | 2.4 | 18.2 | 0.4 | 0.2 |
| 107948 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107948 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107958 Orig | 18.4 | 1.6 | 54.2 | 52.0 | 521 | 18 | 35.1 | 4.6 | 0.1 | < 1 | 0.2 | 0.6 | 574 | 249 | 541 | 63.6 | 237 | 35.0 | 26.8 | 2.9 | 13.9 | 22.1 | 0.9 | 0.6 |

| Quality Control | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|--------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 1.9 | 0.2 | < 0.1 | 145 | | 0.36 | 759 | 2 | 2.5 | 33.3 | | 0.054 | 0.25 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| GXR-1 Meas | 2.3 | 0.3 | < 0.1 | 190 | | 0.38 | 748 | 2 | 2.7 | 33.1 | | 0.049 | 0.24 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| GXR-1 Meas | | | | | | | | 1 | | | | 0.060 | 0.23 |
| GXR-1 Cert | | | | | | | | 1.58 | | | | 0.0650 | 0.257 |
| GXR-1 Meas | | | | | | | | 2 | | | | 0.063 | 0.25 |
| GXR-1 Cert | | | | | | | | 1.58 | | | | 0.0650 | 0.257 |
| GXR-4 Meas | 0.9 | 0.1 | 0.6 | 34.9 | | 2.89 | 49.0 | 8 | 19.4 | 5.5 | | 0.136 | 1.62 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| GXR-4 Meas | 1.0 | 0.1 | 0.6 | 36.6 | | 3.26 | 49.9 | 8 | 22.9 | 5.5 | | 0.134 | 1.79 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| GXR-4 Meas | | | | | | | | 8 | | | | 0.140 | 1.81 |
| GXR-4 Cert | | | | | | | | 7.70 | | | | 0.120 | 1.77 |
| GXR-4 Meas | | | | | | | | 9 | | | | 0.142 | 1.86 |
| GXR-4 Cert | | | | | | | | 7.70 | | | | 0.120 | 1.77 |
| SDC-1 Meas | 2.9 | | 0.2 | 3.3 | | 0.53 | 22.9 | 17 | 9.9 | 2.6 | 0.235 | 0.060 | 0.06 |
| SDC-1 Cert | 4.00 | | 1.20 | 0.800 | | 0.70 | 25.00 | 17.00 | 12.00 | 3.10 | 0.606 | 0.0690 | 0.0650 |
| SDC-1 Meas | | | | | | | | 14 | | | 0.465 | 0.061 | 0.07 |
| SDC-1 Cert | | | | | | | | 17.00 | | | 0.606 | 0.0690 | 0.0650 |
| SCO-1 Meas | | | | 3.6 | | | 28.7 | 15 | 7.6 | | 0.352 | 0.077 | 0.07 |
| SCO-1 Cert | | | | 1.4 | | | 31.0 | 11.0 | 9.70 | | 0.380 | 0.0900 | 0.0630 |
| SCO-1 Meas | | | | | | | | 15 | | | 0.355 | 0.081 | 0.07 |
| SCO-1 Cert | | | | | | | | 11.0 | | | 0.380 | 0.0900 | 0.0630 |
| SCO-1 Meas | | | | | | | | 13 | | | 0.351 | 0.086 | 0.07 |
| SCO-1 Cert | | | | | | | | 11.0 | | | 0.380 | 0.0900 | 0.0630 |
| SCO-1 Meas | | | | | | | | 12 | | | 0.372 | 0.089 | 0.07 |
| SCO-1 Cert | | | | | | | | 11.0 | | | 0.380 | 0.0900 | 0.0630 |
| GXR-6 Meas | 1.0 | 0.1 | 0.2 | 4.2 | | 1.71 | 89.5 | 31 | 2.7 | 0.9 | | 0.047 | 0.02 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 |
| GXR-6 Meas | 1.0 | 0.2 | 0.3 | 1.0 | | 2.10 | 94.9 | 31 | 2.1 | 0.9 | | 0.046 | 0.02 |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | 27.6 | 5.30 | 1.54 | | 0.0350 | 0.0160 |
| GXR-6 Meas | | | | | | | | 17 | | | | 0.025 | 0.01 |
| GXR-6 Cert | | | | | | | | 27.6 | | | | 0.0350 | 0.0160 |
| GXR-6 Meas | | | | | | | | 26 | | | | 0.032 | 0.01 |
| GXR-6 Cert | | | | | | | | 27.6 | | | | 0.0350 | 0.0160 |
| DNC-1a Meas | 1.6 | | | | | | | 31 | | | | | |
| DNC-1a Cert | 2.00 | | | | | | | 31.0 | | | | | |
| DNC-1a Meas | | | | | | | | 31 | | | | | |
| DNC-1a Cert | | | | | | | | 31.0 | | | | | |
| DNC-1a Meas | | | | | | | | 31 | | | | | |
| DNC-1a Cert | | | | | | | | 31.0 | | | | | |
| DNC-1a Meas | | | | | | | | 28 | | | | | |
| DNC-1a Cert | | | | | | | | 31.0 | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 1.19 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|-----------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| 107539 Orig | 2.3 | 0.3 | 11.1 | 3.1 | 0.001 | 0.39 | 23.5 | 21 | 35.7 | 7.3 | 0.684 | 0.269 | 0.03 |
| 107539 Dup | 2.4 | 0.3 | 14.9 | 3.2 | < 0.001 | 0.38 | 25.8 | 22 | 34.6 | 7.1 | 0.694 | 0.266 | 0.03 |
| 107553 Orig | 1.5 | 0.2 | 1.4 | 8.0 | < 0.001 | 0.09 | 4.9 | 27 | 6.1 | 0.5 | 0.867 | 0.088 | 0.04 |
| 107553 Dup | 1.7 | 0.2 | 0.8 | 4.0 | 0.001 | 0.09 | 6.0 | 30 | 7.3 | 0.5 | 0.709 | 0.085 | 0.04 |
| 107556 Orig | | | | | | | | | | | | | |
| 107556 Dup | | | | | | | | | | | | | |
| 107572 Orig | 9.0 | 1.2 | 3.2 | 1.8 | 0.001 | 0.52 | 116 | 37 | 64.5 | 2.1 | 0.506 | 0.955 | 0.07 |
| 107572 Dup | 8.9 | 1.2 | 3.3 | 1.7 | 0.004 | 0.51 | 114 | 37 | 62.4 | 2.0 | 0.512 | 0.979 | 0.07 |
| 107584 Orig | | | | | | | | | | | | | |
| 107584 Dup | | | | | | | | | | | | | |
| 107586 Orig | 2.9 | 0.4 | 6.1 | 2.1 | 0.002 | 0.48 | 21.8 | 19 | 35.0 | 10.8 | 0.533 | 0.382 | 0.04 |
| 107586 Dup | 2.9 | 0.4 | 6.1 | 2.3 | < 0.001 | 0.51 | 22.3 | 19 | 35.3 | 11.4 | 0.545 | 0.375 | 0.04 |
| 107632 Orig | 1.1 | 0.2 | 1.6 | 12.6 | 0.002 | 0.33 | 13.8 | 25 | 5.4 | 0.7 | 0.937 | 0.126 | 0.02 |
| 107632 Dup | 1.5 | 0.2 | 1.7 | 11.9 | 0.001 | 0.33 | 13.8 | 24 | 12.6 | 0.9 | 0.923 | 0.128 | 0.03 |
| 107639 Orig | | | | | | | | | | | | | |
| 107639 Dup | | | | | | | | | | | | | |
| 107646 Orig | 4.6 | 0.6 | 2.2 | < 0.1 | 0.004 | 0.68 | 43.1 | 32 | 91.9 | 39.5 | 0.360 | 0.892 | 0.03 |
| 107646 Dup | 4.7 | 0.6 | 0.9 | < 0.1 | 0.002 | 0.73 | 43.9 | 33 | 95.1 | 39.8 | 0.384 | 0.935 | 0.04 |
| 107667 Orig | 2.5 | 0.3 | 1.5 | 4.6 | 0.003 | 0.41 | 30.6 | 23 | 45.8 | 1.8 | 0.333 | 0.201 | 0.05 |
| 107667 Dup | 2.5 | 0.4 | 1.4 | 4.4 | 0.003 | 0.40 | 30.6 | 24 | 47.1 | 1.8 | 0.332 | 0.204 | 0.05 |
| 107683 Orig | | | | | | | | | | | | | |
| 107683 Dup | | | | | | | | | | | | | |
| 107692 Orig | 1.2 | 0.2 | 0.2 | 3.9 | 0.004 | 0.49 | 32.6 | 20 | 20.9 | 0.5 | 0.450 | 0.026 | 0.01 |
| 107692 Dup | 1.2 | 0.2 | 0.2 | 3.6 | 0.002 | 0.50 | 31.7 | 20 | 19.1 | 0.4 | 0.583 | 0.027 | 0.01 |
| 107806 Orig | 0.8 | 0.1 | 0.4 | 3.2 | 0.001 | 0.43 | 15.8 | 9 | 6.8 | 0.9 | 0.280 | 0.061 | 0.01 |
| 107806 Dup | 0.8 | 0.1 | 0.4 | 3.1 | 0.004 | 0.42 | 16.2 | 9 | 6.5 | 1.0 | 0.292 | 0.061 | 0.01 |
| 107813 Orig | | | | | | | | | | | | | |
| 107813 Dup | | | | | | | | | | | | | |
| 107827 Orig | 1.1 | 0.2 | 0.6 | 2.9 | 0.004 | 0.43 | 17.9 | 11 | 11.0 | 1.3 | 0.319 | 0.095 | < 0.01 |
| 107827 Dup | 0.7 | 0.1 | 0.7 | 3.2 | 0.003 | 0.37 | 16.2 | 10 | 4.3 | 1.0 | 0.322 | 0.094 | < 0.01 |
| 107841 Orig | 3.8 | 0.5 | < 0.1 | 1.8 | 0.001 | 0.40 | 33.0 | 20 | 44.3 | 8.8 | 0.132 | 0.843 | 0.03 |
| 107841 Dup | 3.7 | 0.5 | 0.1 | 1.4 | 0.002 | 0.41 | 32.9 | 21 | 45.0 | 9.4 | 0.207 | 0.932 | 0.04 |
| 107843 Orig | | | | | | | | | | | | | |
| 107843 Dup | | | | | | | | | | | | | |
| 107862 Orig | 2.1 | 0.3 | 1.3 | 1.9 | 0.001 | 0.47 | 31.2 | 19 | 38.5 | 2.8 | 0.426 | 0.227 | 0.01 |
| 107862 Dup | 2.1 | 0.3 | 1.2 | 1.9 | 0.002 | 0.47 | 31.0 | 19 | 37.5 | 5.1 | 0.418 | 0.224 | 0.01 |
| 107876 Orig | 3.1 | 0.4 | 1.0 | 0.5 | 0.003 | 0.33 | 29.7 | 27 | 41.4 | 7.0 | 0.175 | 0.219 | < 0.01 |
| 107876 Dup | 1.9 | 0.2 | 7.7 | 4.3 | 0.002 | 0.28 | 27.8 | 17 | 6.9 | 6.8 | 0.956 | 0.645 | 0.03 |
| 107888 Orig | | | | | | | | | | | | | |
| 107888 Dup | | | | | | | | | | | | | |
| 107897 Orig | 1.8 | 0.3 | < 0.1 | 2.1 | 0.001 | 0.33 | 16.9 | 23 | 19.8 | 1.2 | 0.862 | 0.132 | 0.04 |
| 107897 Dup | 1.7 | 0.2 | < 0.1 | 1.7 | 0.002 | 0.33 | 16.7 | 23 | 18.9 | 1.2 | 0.526 | 0.120 | 0.04 |
| 107918 Orig | | | | | | | | | | | | | |
| 107918 Dup | | | | | | | | | | | | | |
| 107923 Orig | 2.1 | 0.3 | 0.7 | 2.6 | < 0.001 | 0.44 | 26.4 | 21 | 22.7 | 4.9 | 0.179 | 0.245 | 0.02 |
| 107923 Dup | 2.1 | 0.3 | < 0.1 | 2.4 | 0.001 | 0.44 | 27.4 | 22 | 23.1 | 5.4 | 0.223 | 0.258 | < 0.01 |
| 107937 Orig | 1.1 | 0.1 | 0.2 | 2.7 | 0.001 | 0.40 | 17.0 | 11 | 8.7 | 1.0 | 0.317 | 0.091 | < 0.01 |
| 107937 Dup | 1.0 | 0.1 | 0.1 | 2.0 | < 0.001 | 0.39 | 16.6 | 11 | 8.8 | 0.9 | 0.300 | 0.092 | < 0.01 |
| 107948 Orig | | | | | | | | | | | | | |
| 107948 Dup | | | | | | | | | | | | | |
| 107958 Orig | 3.3 | 0.4 | 0.2 | 1.2 | < 0.001 | 0.45 | 31.0 | 19 | 45.5 | 3.0 | 0.128 | 0.423 | 0.01 |



Date Submitted: 13-Dec-11
Invoice No.: A11-14874
Invoice Date: 22-Dec-11
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

4 Soil samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A11-14874**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized and somewhat abstract, with several loops and flourishes.

Emmanuel Esemé , Ph.D.
Quality Control

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| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92001 | < 5 | 45.2 | 0.40 | 2.53 | 2.69 | 0.98 | 6.71 | 1.0 | 170 | 112 | 7260 | 8.46 | < 0.1 | 190 | 11.7 | 9.4 | 4.6 | < 0.05 | 2.19 | 65.3 | 16.8 | 0.93 | 1.8 | 523 |
| 92002 | < 5 | 22.7 | 0.10 | 3.90 | 2.26 | 0.96 | 11.5 | 0.8 | 123 | 27.4 | 4640 | 6.83 | < 0.1 | 11.1 | 15.2 | 15.1 | 6.6 | 0.22 | 1.64 | 18.9 | 22.3 | 0.51 | 2.9 | 250 |
| 92003 | < 5 | 9.3 | 0.38 | 0.32 | 1.02 | 0.10 | 7.65 | 1.6 | 258 | 41.6 | 8250 | 18.2 | < 0.1 | 37.8 | 24.0 | 6.0 | 10.0 | 0.21 | 0.81 | 30.4 | 32.5 | 0.43 | 4.9 | 225 |
| 92004 | < 5 | 95.8 | 0.97 | 3.12 | 3.92 | 0.99 | 1.78 | 0.5 | 97 | 417 | 4860 | 10.4 | 0.3 | 409 | 12.9 | 12.3 | 5.5 | 0.11 | 2.84 | 69.2 | 19.6 | 0.81 | 3.0 | 449 |

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| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| 92001 | 6.7 | 1.6 | 46.1 | 118 | 623 | 46 | 13.2 | 2.6 | 0.2 | < 1 | < 0.1 | < 0.1 | 1190 | 794 | 1700 | 170 | 532 | 63.5 | 47.2 | 5.2 | 26.4 | 137 | 1.2 | 1.6 |
| 92002 | 4.3 | 4.9 | 45.5 | 153 | 431 | 2 | 1.2 | 0.7 | 0.2 | < 1 | < 0.1 | < 0.1 | 1270 | 539 | 1010 | 124 | 452 | 75.5 | 60.8 | 7.7 | 39.9 | 3.2 | 1.0 | 1.8 |
| 92003 | 3.3 | 2.5 | 6.3 | 232 | 564 | 5 | 1.0 | 2.7 | 0.2 | < 1 | < 0.1 | < 0.1 | 484 | 762 | 1170 | 183 | 685 | > 100 | 93.3 | 11.5 | 59.1 | 35.1 | 1.6 | 3.0 |
| 92004 | 11.8 | 4.0 | 47.6 | 137 | 308 | 40 | 1.1 | 1.8 | 0.3 | 2 | < 0.1 | < 0.1 | 999 | 620 | 1010 | 110 | 369 | 64.7 | 56.3 | 6.8 | 34.1 | 138 | 1.1 | 1.5 |

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| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
|------------------------|-------|-------|-------|-------|---------|-------|-------|--------|-------|-------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| 92001 | 7.9 | 0.9 | < 0.1 | 0.3 | 0.001 | 0.36 | 94.1 | 48 | 71.4 | 4.0 | 0.521 | 0.416 | 0.05 |
| 92002 | 9.0 | 1.1 | < 0.1 | 0.1 | 0.003 | 0.75 | 88.8 | 20 | 64.9 | 22.8 | 0.0604 | 1.40 | 0.01 |
| 92003 | 15.5 | 2.1 | < 0.1 | 0.3 | 0.003 | 0.15 | 66.8 | 11 | 79.9 | 24.8 | 0.0650 | 2.80 | 0.03 |
| 92004 | 7.5 | 0.9 | < 0.1 | < 0.1 | < 0.001 | 0.60 | 138 | 67 | 140 | 2.4 | 0.219 | 0.332 | 0.05 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|--------|
| Analyte Symbol | Au | Li | Na | Mg | Al | K | Ca | Cd | V | Cr | Mn | Fe | Hf | Ni | Er | Be | Ho | Ag | Cs | Co | Eu | Bi | Se | Zn |
| Unit Symbol | ppb | ppm | % | % | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.1 | 1 | 0.5 | 1 | 0.01 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 | 0.05 | 0.05 | 0.1 | 0.05 | 0.02 | 0.1 | 0.2 |
| Analysis Method | FA-AA | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | | 8.2 | 0.04 | 0.19 | 1.86 | 0.04 | 0.74 | 2.2 | 84 | 19.2 | 859 | 22.7 | 0.3 | 41.5 | | 0.9 | | 32.2 | 2.93 | 8.4 | 0.55 | 1510 | 16.1 | 801 |
| GXR-1 Cert | | 8.20 | 0.0520 | 0.217 | 3.52 | 0.0500 | 0.960 | 3.30 | 80.0 | 12.0 | 852 | 23.6 | 0.960 | 41.0 | | 1.22 | | 31.0 | 3.00 | 8.20 | 0.690 | 1380 | 16.6 | 760 |
| GXR-4 Meas | | 11.0 | 0.43 | 1.45 | 5.45 | 2.66 | 0.82 | 0.1 | 87 | 37.1 | 141 | 2.76 | 1.1 | 40.2 | | 2.0 | | 1.72 | 2.73 | 14.5 | 1.27 | 17.0 | 5.2 | 69.9 |
| GXR-4 Cert | | 11.1 | 0.564 | 1.66 | 7.20 | 4.01 | 1.01 | 0.860 | 87.0 | 64.0 | 155 | 3.09 | 6.30 | 42.0 | | 1.90 | | 4.00 | 2.80 | 14.6 | 1.63 | 19.0 | 5.60 | 73.0 |
| SDC-1 Meas | | 31.6 | 1.26 | 0.80 | 5.89 | 1.11 | 0.74 | < 0.1 | 65 | 52.9 | 809 | 4.02 | 1.0 | 32.9 | 3.1 | 2.4 | 1.0 | < 0.05 | 3.56 | 17.2 | 1.27 | 0.18 | | 96.7 |
| SDC-1 Cert | | 34.00 | 1.52 | 1.02 | 8.34 | 2.72 | 1.00 | 0.0800 | 102.00 | 64.00 | 880.00 | 4.82 | 8.30 | 38.0 | 4.10 | 3.00 | 1.50 | 0.0410 | 4.00 | 18.0 | 1.70 | 2.60 | | 103.00 |
| SCO-1 Meas | | 40.4 | 0.58 | 1.31 | 5.66 | 1.34 | 1.42 | 0.1 | 113 | 43.5 | 334 | 3.09 | | 25.9 | | 1.6 | | < 0.05 | 6.97 | 10.9 | | 0.31 | | 101 |
| SCO-1 Cert | | 45 | 0.670 | 1.64 | 7.24 | 2.30 | 1.87 | 0.140 | 130 | 68.0 | 410 | 3.59 | | 27 | | 1.80 | | 0.134 | 7.80 | 11.00 | | 0.37 | | 100 |
| GXR-6 Meas | | 33.5 | 0.08 | 0.51 | > 10.0 | 1.32 | 0.14 | < 0.1 | 115 | 48.2 | 976 | 4.94 | 1.5 | 23.5 | | 1.0 | | < 0.05 | 4.04 | 13.3 | 0.56 | 0.13 | 0.4 | 128 |
| GXR-6 Cert | | 32.0 | 0.104 | 0.609 | 17.7 | 1.87 | 0.180 | 1.00 | 186 | 96.0 | 1010 | 5.58 | 4.30 | 27.0 | | 1.40 | | 1.30 | 4.20 | 13.8 | 0.760 | 0.290 | 0.940 | 118 |
| DNC-1a Meas | | 4.5 | | | | | | | 148 | 179 | | | | 270 | | | | | | 60.8 | 0.52 | | | 65.2 |
| DNC-1a Cert | | 5.20 | | | | | | | 148 | 270 | | | | 247 | | | | | | 57.0 | 0.590 | | | 70.0 |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | > 5000 | | | | 2200 | | | | 0.81 | | 78.2 | | | | 134 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | 8650 | | | | 2247 | | | | 0.86 | | 75 | | | | 133 |
| CDN-GS-P2A Meas | 250 | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 92004 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 92004 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank | | < 0.5 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.1 | < 1 | < 0.5 | < 1 | < 0.01 | < 0.1 | < 0.5 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.05 | < 0.1 | < 0.05 | < 0.02 | < 0.1 | < 0.2 |
| Method Blank | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| Analyte Symbol | Ga | As | Rb | Y | Sr | Zr | Nb | Mo | In | Sn | Sb | Te | Ba | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Cu | Ge | Tm |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS |
| GXR-1 Meas | 8.4 | 372 | 2.3 | 28.3 | 272 | 19 | 0.3 | 15.2 | 0.7 | 23 | 23.0 | 12.8 | 622 | 6.9 | 13.9 | | 7.5 | 2.6 | 3.8 | 0.7 | 4.6 | 1160 | | 0.4 |
| GXR-1 Cert | 13.8 | 427 | 14.0 | 32.0 | 275 | 38.0 | 0.800 | 18.0 | 0.770 | 54.0 | 122 | 13.0 | 750 | 7.50 | 17.0 | | 18.0 | 2.70 | 4.20 | 0.830 | 4.30 | 1110 | | 0.430 |
| GXR-4 Meas | 15.7 | 87.3 | 128 | 13.0 | 193 | 36 | 7.2 | 272 | 0.2 | 6 | 4.2 | 0.9 | 96 | 51.1 | 95.6 | | 35.5 | 5.5 | 4.1 | 0.5 | 2.7 | 6140 | | 0.2 |
| GXR-4 Cert | 20.0 | 98.0 | 160 | 14.0 | 221 | 186 | 10.0 | 310 | 0.270 | 5.60 | 4.80 | 0.970 | 1640 | 64.5 | 102 | | 45.0 | 6.60 | 5.25 | 0.360 | 2.60 | 6520 | | 0.210 |
| SDC-1 Meas | 18.8 | < 0.1 | 75.8 | 28.5 | 146 | 43 | < 0.1 | < 0.1 | | < 1 | < 0.1 | | 481 | 31.6 | 72.3 | | 31.4 | 6.2 | 5.8 | 0.8 | 5.3 | 32.2 | | 0.5 |
| SDC-1 Cert | 21.00 | 0.220 | 127.00 | 40.0 | 180.00 | 290.00 | 21.00 | 0.250 | | 3.00 | 0.54 | | 630 | 42.00 | 93.00 | | 40.00 | 8.20 | 7.00 | 1.20 | 6.70 | 30.00 | | 0.65 |
| SCO-1 Meas | 13.8 | 8.4 | 79.1 | 18.2 | 142 | 73 | 3.0 | 0.3 | | 2 | 0.9 | | 494 | 25.6 | 49.5 | 6.0 | 22.0 | | | | | 26.5 | | |
| SCO-1 Cert | 15 | 12.00 | 110.0 | 26 | 170 | 160 | 11 | 1.4 | | 3.7 | 2.50 | | 570 | 30.0 | 62.00 | 6.6 | 26.0 | | | | | 29 | | |
| GXR-6 Meas | 25.2 | 202 | 71.2 | 11.9 | 34.5 | 62 | < 0.1 | 0.3 | < 0.1 | < 1 | 0.3 | < 0.1 | 1150 | 11.4 | 30.7 | | 11.0 | 2.3 | 2.1 | 0.3 | 2.1 | 65.8 | | 0.2 |
| GXR-6 Cert | 35.0 | 330 | 90.0 | 14.0 | 35.0 | 110 | 7.50 | 2.40 | 0.260 | 1.70 | 3.60 | 0.0180 | 1300 | 13.9 | 36.0 | | 13.0 | 2.67 | 2.97 | 0.415 | 2.80 | 66.0 | | 0.0320 |
| DNC-1a Meas | | | | 16.1 | 130 | 36 | | | | | 0.8 | | 92 | 3.5 | | | 4.5 | | | | | 96.7 | | |
| DNC-1a Cert | | | | 18.0 | 144 | 38.0 | | | | | 0.960 | | 118 | 3.60 | | | 5.20 | | | | | 100 | | |
| OREAS 13b (4-Acid) Meas | | 44.9 | | | | | | 7.6 | | | | | | | | | | | | | | 2160 | | |
| OREAS 13b (4-Acid) Cert | | 57 | | | | | | 9.0 | | | | | | | | | | | | | | 2300.000 | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 92004 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 92004 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.2 | < 0.1 | < 0.1 |
| Method Blank | | | | | | | | | | | | | | | | | | | | | | | | |

| Quality Control | | | | | | | | | | | | | |
|-------------------------|-------|-------|-------|-------|---------|--------|-------|--------|-------|-------|----------|---------|--------|
| Analyte Symbol | Yb | Lu | Ta | W | Re | Tl | Pb | Sc | Th | U | Ti | P | S |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % |
| Detection Limit | 0.1 | 0.1 | 0.1 | 0.1 | 0.001 | 0.05 | 0.5 | 1 | 0.1 | 0.1 | 0.0005 | 0.001 | 0.01 |
| Analysis Method | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-MS | TD-ICP | TD-MS | TD-MS | TD-ICP | TD-ICP | TD-ICP |
| GXR-1 Meas | 1.9 | 0.2 | < 0.1 | 126 | | 0.37 | 752 | 1 | 2.9 | 33.9 | | 0.056 | 0.23 |
| GXR-1 Cert | 1.90 | 0.280 | 0.175 | 164 | | 0.390 | 730 | 1.58 | 2.44 | 34.9 | | 0.0650 | 0.257 |
| GXR-4 Meas | 0.9 | 0.1 | 0.4 | 29.5 | | 2.68 | 46.2 | 8 | 14.1 | 5.4 | | 0.130 | 1.73 |
| GXR-4 Cert | 1.60 | 0.170 | 0.790 | 30.8 | | 3.20 | 52.0 | 7.70 | 22.5 | 6.20 | | 0.120 | 1.77 |
| SDC-1 Meas | 2.7 | | < 0.1 | < 0.1 | | 0.46 | 22.3 | 17 | 8.9 | 2.5 | 0.117 | 0.055 | 0.06 |
| SDC-1 Cert | 4.00 | | 1.20 | 0.800 | | 0.70 | 25.00 | 17.00 | 12.00 | 3.10 | 0.606 | 0.0690 | 0.0650 |
| SCO-1 Meas | | | | 0.3 | | | 30.3 | 13 | 7.0 | | 0.280 | 0.079 | 0.07 |
| SCO-1 Cert | | | | 1.4 | | | 31.0 | 11.0 | 9.70 | | 0.380 | 0.0900 | 0.0630 |
| GXR-6 Meas | 1.4 | 0.2 | < 0.1 | < 0.1 | | 1.80 | 96.0 | | 4.7 | 1.4 | | | |
| GXR-6 Cert | 2.40 | 0.330 | 0.485 | 1.90 | | 2.20 | 101 | | 5.30 | 1.54 | | | |
| DNC-1a Meas | 1.7 | | | | | | | 31 | | | | | |
| DNC-1a Cert | 2.00 | | | | | | | 31.0 | | | | | |
| OREAS 13b (4-Acid) Meas | | | | | | | | | | | | | 0.97 |
| OREAS 13b (4-Acid) Cert | | | | | | | | | | | | | 1.20 |
| CDN-GS-P2A Meas | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | |
| 92004 Orig | | | | | | | | | | | | | |
| 92004 Dup | | | | | | | | | | | | | |
| Method Blank | | | | | | | | < 1 | | | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.001 | < 0.05 | < 0.5 | < 1 | < 0.1 | < 0.1 | < 0.0005 | < 0.001 | < 0.01 |
| Method Blank | | | | | | | | | | | | | |

APPENDIX 7A: 2010 AND 2011 TRENCH ATTRIBUTES

Appendix 7a: 2010 and 2011 Trench Attributes

| Claim | Expl Area | Trench ID Current | Trench Nickname | Survey Method | Easting NAD 83 / Zone 19 | Northing NAD 83 / Zone 19 | Date Started | Approx Volume Excavated (m ³) | Main Lithology | Samples Analyzed | Sample List | Purpose of Trench | Trench Notes | Reclaimed | Date Reclamation Completed |
|---------|-------------|-------------------|-----------------|--|--------------------------|---------------------------|--------------|---|--------------------------------|---|--|---|--|-----------|----------------------------|
| 2087790 | Ashram | TR10-014 | - | Handheld GPS, Compass and Topofil, adjusted to satellite image | 536097 | 6312012 | Jul-2010 | 56.3 | Glim / alb amph phlogopilitite | 3 channel, 1 comp | 87301, 87302, 87303, 87605 (comp) | Targeted western contact of Ashram Deposit | Trench filled with water and mud after rain. Pumped out and managed to get 3 samples. No real mapping completed as water had no place to drain. Contact was not located. | No | - |
| 2087760 | Star Trench | TR10-015 | German | Handheld GPS, Compass and Survey Chain, adjusted to satellite image | 537282 | 6310086 | 11-Jul-2010 | 80.5 | Carb / non-Carb (±phoscorite) | 15 channel | 67726, 67727, 67728, 67729, 67730, 87314, 87315, 87316, 87317, 87318, 87319, 87320, 87321, 87322, 87323 | Area of increased RA south of TR08-008 with coincident mag anomaly. Hand digging yielded subcrop with magnetite | Very blocky subcrop, trench very similar to Star Trench (TR08-008) in terms of RA, mineralization, and lithology | No | - |
| 2087774 | Star Trench | TR10-016 | New German | Handheld GPS, Compass and Survey Chain, adjusted to satellite image | 537411 | 6310160 | Jul-2010 | 9.3 | Glim / dol-Carb | 2 channel | 87324, 87325 | Elevated RA at surface, hand digging yielded shallow Carb subcrop | Low grade Ta-Nb mineralization confirmed from sampling. No further work done. | No | - |
| 2087800 | Miranna | TR10-017A | Miranna | Handheld GPS | 537392 | 6313026 | Jul-2010 | 42.1 | dol-Carb / Non-Carb | 8 channel, 10 soil samples (over two vertical profiles) | 87304, 87305, 87306, 87307, 87308, 87309, 87310, 87311 | Evaluate area of soil anomalies up to 8,500 cps, RA elevated all over area | Bedrock was reached but was unmineralized in Ta-Nb-REE. RA decreased with depth suggested source further south | No | - |
| 2087800 | Miranna | TR10-017B | Miranna | Handheld GPS | 537390 | 6313050 | Jul-2010 | 32.4 | Non-Carb | 2 channel, 5 soil samples (over one vertical profile) | 87312, 87313 | Evaluate area of soil anomalies up to 8,500 cps, RA elevated all over area | Bedrock was reached but was unmineralized in Ta-Nb-REE. RA decreased with depth suggested source further south | No | - |
| 2087800 | Miranna | TR10-017C | Miranna | Handheld GPS | 537394 | 6313001 | 2-Aug-10 | 18.5 | N/A | 1 soil sample | - | Attempt to trace soil profile mineralization from TR10-017A and B | Trench abandoned before bedrock reached. Notes very poor but trench is believed have flooded. | No | - |
| 1007890 | Triple D | TR11-018 | DDD-B | Handheld GPS, simple sketch (2011, 2013) | 535760 | 6313629 | 22-Apr-11 | 11.2 | Not Documented | No | Three boulders samples were collected but were not sent for assay (100701A, 100702, 100703) | Try and get more information than soils for which to target drill hole | Excavated late in the 2011 winter drill program using a D5 CAT. Bedrock was exposed on south end of trench but not sampled. Max CPS of 1,500 recorded in trench. Trenching not overly positive but dth still completed in area. | Yes | 2011 |
| 1007890 | Triple D | TR11-019 | DDD-A | Handheld GPS, simple sketch (2011, 2013) | 535717 | 6313760 | 23-Apr-11 | 5.7 | Not Documented | No | - | Try and get more information than soils for which to target drill hole | Excavated late in the 2011 winter drill program using a D5 CAT. Bedrock was exposed on but not sampled. Max CPS of 1,050 recorded in trench. Trenching not overly positive and no dth was completed. | Yes | 2011 |
| 2087790 | Ashram | TR11-020 | - | Handheld GPS, Compass and Topofil, adjusted to satellite image | 536092 | 6312201 | 17-Jun-11 | 12.7 | N/A | No | - | Attempt to located Ashram Deposit's western contact to confirm pads for EC11-060 and 061 are not too far west | Excavated with D5 CAT but failed to reach bedrock and was abandoned. Max CPS of 1,000 noted in trench. | No | - |
| 1007883 | West Rim | TR11-021A | - | Handheld GPS, simple sketch (2013) | 535131 | 6312587 | Aug-2010 | 1.8 | N/A | 2 boulders | 92940, 92941 | Evaluate background RA of 1,000 CPS with coincident airborne Th high and mag low, little OC in area | Abandoned before hitting encountering bedrock with only boulders found. Kept filling up with water preventing further excavation. Max CPS of 1,100 recorded in trench. | No | - |
| 1007883 | West Rim | TR11-021B | - | Handheld GPS, simple sketch (2013) | 535138 | 6312602 | Aug-2010 | 10.8 | N/A | 1 boulder | 92942 | Evaluate background RA of 1,000 CPS with coincident airborne Th high and mag low, little OC in area | Abandoned before hitting encountering bedrock with only boulders found. Kept filling up with water preventing further excavation. Max CPS of 1,100 recorded in trench. | No | - |
| 1007883 | West Rim | TR11-021C | - | Handheld GPS, simple sketch (2013) | 535099 | 6312607 | Aug-2010 | 4.2 | N/A | 1 boulder | 92943 | Evaluate background RA of 1,000 CPS with coincident airborne Th high and mag low, little OC in area | Abandoned before hitting encountering bedrock with only boulders found. Kept filling up with water preventing further excavation. Max CPS of 1,130 recorded in trench. | No | - |
| 2087796 | Beckling | TR11-022A | Beckling 1 | DGPS waypoints collected along centreline of trench, compass and topofil | 539129 | 6312892 | 16-Aug-11 | 27.8 | dol-Carb / Non-Carb (minor) | 23 channel | 107994, 107995, 107996, 107997, 107998, 107999, 108000, 109901, 109902, 109903, 109904, 109905, 109906, 109907, 109908, 109909, 109910, 109911, 109912, 109913, 109914, 109915, 109916 | Evaluate new carbonatite showing outside of main complex. High RA associated with fluorite present indicating mineralization. Attempt to better orient dth | Trenching confirmed sizable bedrock carbonatite source to RA with abundant fluorite present indicating potential REE mineralization. Orientation of rock fabric and contacts allowed for more optimal orientation of drill. Max CPS of ~10,000 recorded in trench. | No | - |
| 2087796 | Beckling | TR11-022B | Beckling 2 | Handheld GPS, Compass and Topofil | 539110 | 6312913 | 17-Aug-11 | 16.2 | dol-Carb | 8 channel | 109917, 109918, 109919, 109920, 109921, 109922, 109923, 109924 | Evaluate new carbonatite showing outside of main complex. High RA associated with fluorite present indicating mineralization. Attempt to better orient dth | Trenching confirmed sizable bedrock carbonatite source to RA with abundant fluorite present indicating potential REE mineralization. Max CPS of 3,300 recorded in trench. | No | - |
| 2087804 | Beckling | TR11-022C | Beckling 3 | Handheld GPS, Compass and Topofil | 539091 | 6312931 | 15-Aug-11 | 11.2 | dol-Carb | 6 channel | 109925, 109926, 109927, 109928, 109929, 109930 | Evaluate new carbonatite showing outside of main complex. High RA associated with fluorite present indicating mineralization. Attempt to better orient dth | Trenching confirmed sizable bedrock carbonatite source to RA with abundant fluorite present indicating potential REE mineralization. Max CPS of 5,800 recorded in trench. | No | - |
| 2087796 | Beckling | TR11-023 | Beckling 4 | DGPS waypoints collected along centreline of trench | 539215 | 6312858 | 5-Sep-11 | 54.1 | dol-Carb / non-Carb | 19 channel | 87696, 107976, 107977, 107978, 107979, 107980, 107981, 107982, 107983, 107984, 107985, 107986, 107987, 107988, 107989, 107990, 107991, 107992, 107993 | Evaluate new carbonatite showing outside of main complex. Area of high RA southeast of TR11-022A with dol-Carb outcroppings. Attempt to further evaluate for potential dth. | Trenching confirmed sizable bedrock carbonatite source to RA with abundant fluorite present indicating potential REE mineralization. Max CPS of 7,500 recorded in trench. | No | - |

**APPENDIX 7B: 2010 AND 2011 TRENCH SAMPLE LOCATIONS AND
DESCRIPTIONS**

Appendix 7b: 2010 and 2011 Trench Sample Locations and Descriptions

| Sample ID | Year Sampled | Trench ID | General Location | Easting N83Z19 | Northing N83Z19 | Sample Length (m) | Sample Type | Max CPS | Bag CPS | Basic Litho | Sample Description | Date Sampled |
|-----------|--------------|-----------|------------------|----------------|-----------------|-------------------|-------------|---------|---------|----------------|---|--------------|
| 67726 | 2010 | TR10-015 | Star Trench Area | 537277 | 6310096 | 0.83 | Chip | - | 490 | Glim-dol-Carb | m.g., Glim (~30%), dol (gr, ~60%), dol (y, ~10%, vn cutting sharp through) | 9-Aug-10 |
| 67727 | 2010 | TR10-015 | Star Trench Area | 537275 | 6310094 | 0.59 | Chip | - | 230 | Glim? | v.f.g., dk, scht or sed layer, sul (common) | 9-Aug-10 |
| 67728 | 2010 | TR10-015 | Star Trench Area | 537274 | 6310092 | 0.68 | Chip | - | 410 | Glim-dol-Carb | y with r-br patches (~40%), dol-Carb vns (perv, ~30%), Glim frag (~30%) | 9-Aug-10 |
| 67729 | 2010 | TR10-015 | Star Trench Area | 537282 | 6310091 | 0.95 | Chip | - | 760 | si-Carb | gy-gr gdmass, mag phenos (~1cm, less than 20%) | 9-Aug-10 |
| 67730 | 2010 | TR10-015 | Star Trench Area | 537286 | 6310087 | 0.72 | Chip | - | 520 | Glim | m.g., dol-Carb (vns, ~35%), Glim (~60%) ctc with si-Carb (~5%) | 9-Aug-10 |
| 67731 | 2010 | TR08-009 | - | 538505 | 6310651 | - | Sawcut | 1450 | 330 | dol-Carb | m.g., gy-gr, sul (abdt throughout), ukn min (blk, suh-anh), fl (blebs throughout), bio? (v.f.g., blk, shiny, throughout) | 15-Aug-10 |
| 67732 | 2010 | TR08-009 | - | 538503 | 6310649 | - | Sawcut | 1550 | 300 | dol-Carb | m.g., gy-gr, sul (abdt throughout), ukn min (blk, suh-anh), fl (blebs throughout), bio? (v.f.g., blk, shiny, throughout) | 15-Aug-10 |
| 67733 | 2010 | TR08-009 | - | 538501 | 6310647 | - | Sawcut | 1400 | 350 | dol-Carb | m.g., gy-gr, sul (abdt throughout), ukn min (blk, suh-anh), fl (blebs throughout), bio? (v.f.g., blk, shiny, throughout) | 15-Aug-10 |
| 87301 | 2010 | TR10-014 | Ashram | 536087 | 6312008 | 0.50 | Chip | - | 270 | meta-Sed? | f.g., dk navy b, cc (vns, 1-7mm wide throughout), ukn min (dull r, glomerocrystic), py (few, diss, euh), no mag | 7-Jul-10 |
| 87302 | 2010 | TR10-014 | Ashram | 536088 | 6312007 | 0.50 | Chip | - | 280 | meta-Sed? | f.g., dk navy b, cc (vns, 3-8mm wide), ukn min (dull r), py (few, diss, euh), WR (few), qtz (minor), no mag | 7-Jul-10 |
| 87303 | 2010 | TR10-014 | Ashram | 536088 | 6312008 | 0.50 | Chip | - | 140 | meta-Sed? | f.g.-m.g., lt b-gy, xtln, calcitic, vns (f.g., pale gr with dull r min along ctc, 0.5cm wide), py (v. few, diss), no mag | 7-Jul-10 |
| 87304 | 2010 | TR10-017A | South J-Lake | 537396 | 6313022 | 0.50 | Chip | 1270 | 230 | dol-Carb | f.g., xtln, sul (few, f.g., diss), bio (common, f.g., vnlets), no mag, ukn min (few, blk, clusters) | 3-Aug-10 |
| 87305 | 2010 | TR10-017A | South J-Lake | 537396 | 6313025 | 0.50 | Chip | 910 | 210 | dol-Carb | v.f.g., pale ol, xtln, brc, Glim (abdt), sul (few, f.g., py, diss), bio (v.f.g., vns) | 4-Aug-10 |
| 87306 | 2010 | TR10-017A | South J-Lake | 537395 | 6313024 | 0.50 | Chip | 970 | 230 | Carb-WR | brc, WR with bio (f.g.), Glim rimming | 5-Aug-10 |
| 87307 | 2010 | TR10-017A | South J-Lake | 537392 | 6313026 | 0.50 | Chip | 1050 | 210 | si-WR-dol-Carb | m.g., lt gy to tan, si-WR (aph) brc by dol-Carb, bio (f.g., rims around WR), clsts (ang, rectangular), low mineralization | 4-Aug-10 |
| 87308 | 2010 | TR10-017A | South J-Lake | 537391 | 6313024 | 0.50 | Chip | 1190 | 215 | Glim-si-WR | aph, tan, Glim brc si-WR (perv, stockwork), cc (vns xcut throughout), qtz | 4-Aug-10 |

Appendix 7b: (continued)

| Sample ID | Year Sampled | Trench ID | General Location | Easting N83Z19 | Northing N83Z19 | Sample Length (m) | Sample Type | Max CPS | Bag CPS | Basic Litho | Sample Description | Date Sampled |
|-----------|--------------|-----------|------------------|----------------|-----------------|-------------------|-------------|---------|---------|---------------|--|--------------|
| 87309 | 2010 | TR10-017A | South J-Lake | 537390 | 6313022 | 0.50 | Chip | 1300 | 220 | Carb-WR | m.g., lt gy to tan, dol vns brc si-WR (aph), bio (f.g., rimming ang clsts), low mineralization | 4-Aug-10 |
| 87310 | 2010 | TR10-017A | South J-Lake | 537387 | 6313025 | 0.50 | Chip | 1000 | 250 | dol-Carb | m.g., xtln, bio (abdt, f.g., gradually grading into Glim), py (abdt, euh, m.g.) | 4-Aug-10 |
| 87311 | 2010 | TR10-017A | South J-Lake | 537387 | 6313023 | 0.50 | Chip | 990 | 270 | Glim-dol-Carb | xtln, Carb vns (m.g.) | 4-Aug-10 |
| 87312 | 2010 | TR10-017B | South J-Lake | 537393 | 6313047 | 0.50 | Chip | - | 270 | WR | brc by dol-Carb, bio rim | 4-Aug-10 |
| 87313 | 2010 | TR10-017B | South J-Lake | 537392 | 6313043 | 0.50 | Chip | - | 230 | WR | fracd, brc by dol-Carb, bio rim around WR | 4-Aug-10 |
| 87314 | 2010 | TR10-015 | Star Trench Area | 537290 | 6310079 | 1.04 | Chip | - | 900 | si-Carb | gr gdmass, mag phenos ap-dol-Carb (70-80%), Glim (~20%), si-Carb (~30%) | 9-Aug-10 |
| 87315 | 2010 | TR10-015 | Star Trench Area | 537287 | 6310081 | 1.25 | Chip | - | 1200 | si-Carb | gr, suc? gdmass, mag phenos (up to 1.5cm, ~60%) | 9-Aug-10 |
| 87316 | 2010 | TR10-015 | Star Trench Area | 537282 | 6310082 | 0.82 | Chip | - | 640 | Glim | f.g.-m.g., Carb (vns, withd, ~1%) | 9-Aug-10 |
| 87317 | 2010 | TR10-015 | Star Trench Area | 537280 | 6310085 | 0.95 | Chip | - | 430 | si-Carb (S3) | gr gdmass, mag phenos (up to 3cm), ap-Carb, vn or inclusion (~2cm, y gdmass) with pych? (blk) | 9-Aug-10 |
| 87318 | 2010 | TR10-015 | Star Trench Area | 537280 | 6310092 | 1.63 | - | - | 730 | si-Carb | mag phenos (~1.5cm, ~50%) with Carb (vn, y-gy, ~20cm, no mag phenos) | 9-Aug-10 |
| 87319 | 2010 | TR10-015 | Star Trench Area | 537279 | 6310095 | 1.00 | Chip | - | 900 | Glim-si-Carb? | gr gdmass, si-Carb (vns, abdt, Carb?) | 9-Aug-10 |
| 87320 | 2010 | TR10-015 | Star Trench Area | 537278 | 6310098 | 0.65 | Chip | - | 330 | dol-Carb | gr-y, layered, no mag phenos | 9-Aug-10 |
| 87321 | 2010 | TR10-015 | Star Trench Area | 537278 | 6310097 | 1.12 | Chip | - | 640 | si-Carb | gr gdmass, ap, mag phenos (up to 1cm, 40-50%), Carb dykes without mag cutting | 9-Aug-10 |
| 87322 | 2010 | TR10-015 | Star Trench Area | 537276 | 6310101 | - | - | - | 410 | dol-Carb | f.g.-m.g., y, mafic mins (few, patches, bnds) | 9-Aug-10 |
| 87323 | 2010 | TR10-015 | Star Trench Area | 537276 | 6310100 | 0.77 | - | - | 380 | si-Carb | gr gdmass, ap, dol-Carb, mag phenos (up to ~3cm, ~65-70%) | 9-Aug-10 |
| 87324 | 2010 | TR10-016 | Star Trench Area | 537415 | 6310162 | 0.80 | Chip | - | 510 | dol-Carb | m.g.-c.g., gy-gr, pych? (abdt, ~7-10%, anh-suh, blk-dk gy), ap? | 15-Aug-10 |
| 87325 | 2010 | TR10-016 | Star Trench Area | 537409 | 6310159 | 0.83 | Chip | - | 650 | dol-Carb | m.g.-c.g., gy-gr, pych? (abdt, ~7-10%, anh-suh, blk-dk gy), ap? | 15-Aug-10 |
| 87696 | 2011 | TR11-023 | Beckling | 539213 | 6312863 | - | comp chip | - | - | qtz vns | milky, clear, xcutting, ~10cm wide, fl-sul (various amounts) | 18-Sep-11 |

Appendix 7b: (continued)

| Sample ID | Year Sampled | Trench ID | General Location | Easting N83Z19 | Northing N83Z19 | Sample Length (m) | Sample Type | Max CPS | Bag CPS | Basic Litho | Sample Description | Date Sampled |
|-----------|--------------|-----------|------------------|----------------|-----------------|-------------------|-------------|---------|---------|-------------|---|--------------|
| 107976 | 2011 | TR11-023 | Beckling | 539222 | 6312860 | 1.64 | channel | 3500 | 500 | dol-Carb | lt gy, wthd - rusty dk br, mottled, psbrc?, fl (~5%, v.f.g.-f.g., patches or streaks, perv, itsl), py (~1%, f.g., suh), phl-qtz-gal (trace) | 17-Sep-11 |
| 107977 | 2011 | TR11-023 | Beckling | 539222 | 6312858 | 1.29 | channel | 3350 | 450 | dol-Carb | lt ol-gy, wthd - rusty dk br, mottled, psbrc?, qtz-fl (xcutting, minor, brittle frac vnlets), fl (stringers, rare), py-phlog-gal (trace) | 17-Sep-11 |
| 107978 | 2011 | TR11-023 | Beckling | 539222 | 6312855 | 0.95 | channel | 1600 | 275 | dol-Carb | med-lt gy, wthd - br-blk, clst sup brc, dol-Carb clsts (sub ang-rnd, f.g.-v.c.g., shr itsl bio-phl), bio-phl often wraps around clsts, fl-py (trace) | 17-Sep-11 |
| 107979 | 2011 | TR11-023 | Beckling | 539220 | 6312853 | 1.35 | channel | 1600 | 280 | dol-Carb | v.f.g. mtx, pale y-br, wthd - rusty br, pblic?, dol pbils? (f.g.-m.g., anh-v.rare euh), phl (stringers, patches), qtz (vn, ~5mm, xcutting), fl (p)-ap (m.g., pale y, euh), py (trace) | 17-Sep-11 |
| 107980 | 2011 | TR11-023 | Beckling | 539218 | 6312852 | 1.45 | channel | 3500 | 370 | dol-Carb | v.f.g. mtx, lt ol-gy to gy, wthd - rusty br, brc or psbrc, dol-Carb clsts (f.g.-c.g., ang-sub rnd), fl (stringers or patches, perv, ~5%), py-qtz-gal (trace), qtz (minor, xcutting, vnlets) | 17-Sep-11 |
| 107981 | 2011 | TR11-023 | Beckling | 539216 | 6312850 | 0.83 | channel | 1050 | 260 | dol-Carb | v.f.g. mtx (itsl), lt gy-gy, wthd - rusty dk br, clst sup brc, (f.g.-v.c.g., sub ang-rnd), bio-phl (few, stringers), fl (rare, f.g.), py-qtz (trace) | 17-Sep-11 |
| 107982 | 2011 | TR11-023 | Beckling | 539215 | 6312848 | 0.84 | channel | 2200 | 300 | dol-Carb | lt ol-gy, wthd - rusty dk br, brc, dol-Carb clsts (f.g.-v.c.g., sub ang-rnd), dol (v.f.g.) ± fl (itsl, perv, up to 10%), qtz-py-gal-phl-bio (trace) | 17-Sep-11 |
| 107983 | 2011 | TR11-023 | Beckling | 539215 | 6312847 | 1.18 | channel | 1500 | 250 | dol-Carb | f.g., lt ol-gy, wthd - dk rusty br, psbrc, fl (~3%, streaky), py (trace), dol-phl (shr zone regolith) | 17-Sep-11 |
| 107984 | 2011 | TR11-023 | Beckling | 539214 | 6312844 | 1.24 | channel | 970 | 240 | dol-Carb | f.g., y-gy, wthd - rusty br, wk mottled to mass, qtz (common, xcutting, vnlets) ± fl, rhodocrosite? (f.g., pk), py-phl?-msc? (trace) | 17-Sep-11 |
| 107985 | 2011 | TR11-023 | Beckling | 539213 | 6312841 | 1.2 | channel | 980 | 200 | dol-Carb | f.g., lt ol-gy to y-gy, wthd - rusty br, qtz (common, xcutting, vnlets or vns), fl-py (trace)-mnz? (f.g.-m.g., br, suh-euh)-phl?-msc?-gal | 17-Sep-11 |
| 107986 | 2011 | TR11-023 | Beckling | 539213 | 6312838 | 0.87 | channel | 700 | 175 | dol-Carb | lt gy to y-gy, wthd - rusty br, dol-Carb clsts (lineated, elongate) with bio-phl (shrd, itsl), py (trace) | 17-Sep-11 |
| 107987 | 2011 | TR11-023 | Beckling | 539212 | 6312853 | 0.82 | channel | 2400 | 315 | dol-Carb | gy to y-gy, wthd - dk rusty br, clst sup brc, dol-Carb clsts (f.g.-c.g., sub rnd-rnd), bio-phl or fl (itsl, shrd around clsts), py-qtz (trace) | 17-Sep-11 |
| 107988 | 2011 | TR11-023 | Beckling | 539214 | 6312874 | 0.7 | channel | 1090 | 250 | dol-Carb | gy, wthd - rusty br, dol-Carb clsts (lineated, elongate) with bio-phl (itsl, shrd), gal-py-qtz-fl (trace) | 17-Sep-11 |
| 107989 | 2011 | TR11-023 | Beckling | 539214 | 6312868 | 1.55 | channel | 2280 | 530 | dol-Carb | f.g., lt ol-gy to pale p, wthd - rusty dk br, mass to mottled, fl (wk perv, itsl, ~5%), py-phl-bio-qtz-gal (trace) | 17-Sep-11 |
| 107990 | 2011 | TR11-023 | Beckling | 539214 | 6312864 | 1.08 | channel | 1460 | 260 | dol-Carb | f.g., y-gy, wthd - rusty br, mass to mottled, qtz (common, xcutting, vnlets), bio-phl (few, stringers), py-fl (trace) | 17-Sep-11 |
| 107991 | 2011 | TR11-023 | Beckling | 539214 | 6312863 | 0.9 | channel | 1790 | 260 | dol-Carb | y-gy to blk, wthd - dk rusty br, mtx sup brc (shrd, bio-phl), dol-Carb clsts (f.g.-c.g., sub rnd-rnd) py-qtz (trace) | 17-Sep-11 |

Appendix 7b: (continued)

| Sample ID | Year Sampled | Trench ID | General Location | Easting N83Z19 | Northing N83Z19 | Sample Length (m) | Sample Type | Max CPS | Bag CPS | Basic Litho | Sample Description | Date Sampled |
|-----------|--------------|-----------|------------------|----------------|-----------------|-------------------|-------------|---------|---------|-------------|---|--------------|
| 107992 | 2011 | TR11-023 | Beckling | 539213 | 6312862 | 1.31 | channel | 5200 | 500 | dol-Carb | med-lt gy, wthd - dk rusty br, clst sup brc, dol-Carb clsts (f.g.-c.g., sub ang-sub rnd), dol-fl-sul mtx (v.f.g.), fl (streaky or diss), qtz-py-gal-bio-phl (trace) | 17-Sep-11 |
| 107993 | 2011 | TR11-023 | Beckling | 539212 | 6312860 | 1.19 | channel | 3000 | 350 | dol-Carb | f.g., med-lt gy, wthd - rusty br, wk mottled to mass, qtz-fl (xcutting, hy-therm), fl (wk perv, itsl), py-gal-bio-phl (trace) | 17-Sep-11 |
| 107994 | 2011 | TR11-022A | Beckling | 539136 | 6312905 | 0.63 | channel | 3185 | 400 | dol-Carb | med-lt gy, wthd - dk rusty br, mtx (f.g., bio-phl, shrd around grains) or clst (f.g.-c.g., sub ang-sub rnd) sup brc, fl (streaky), py-gal (trace) | 18-Sep-11 |
| 107995 | 2011 | TR11-022A | Beckling | 539135 | 6312902 | 0.85 | channel | 4285 | 250 | dol-Carb | gy, wthd - rusty br-blk, shrd, lineated, fol?, dol-Carb clsts (f.g., flattened, elongate)-bio-phl (itsl), py-qtz (trace) | 18-Sep-11 |
| 107996 | 2011 | TR11-022A | Beckling | 539135 | 6312902 | 0.59 | channel | 3655 | 380 | dol-Carb | f.g., lt ol-gy, wthd - rusty br, wk mottled to mass, fl (common, stringers, ~5%), py-qtz-bio-phl (trace) | 18-Sep-11 |
| 107997 | 2011 | TR11-022A | Beckling | 539134 | 6312901 | 1.19 | channel | 3595 | 375 | dol-Carb | lt gy to med gy, wthd - rusty br, dol-Carb clst (f.g.-c.g., sub ang-rnd) sup brc, bio-phl (itsl), fl (few, stringers), qtz-py (trace) | 18-Sep-11 |
| 107998 | 2011 | TR11-022A | Beckling | 539134 | 6312900 | 0.97 | channel | 4870 | 450 | dol-Carb | f.g., lt ol-gy, wthd - rusty br, wk mottled to mass, fl (streaky, itsl), bio-phl (rare, shr bnds), qtz-py (trace) | 18-Sep-11 |
| 107999 | 2011 | TR11-022A | Beckling | 539134 | 6312899 | 0.81 | channel | 3825 | 500 | dol-Carb | f.g.-m.g., lt ol-gy, wthd - dk rusty br, mass, fl (few, stringers), py (minor), gal-qtz-bio-phl-msc? (trace) | 18-Sep-11 |
| 108000 | 2011 | TR11-022A | Beckling | 539133 | 6312898 | 1.07 | channel | 6590 | 650 | dol-Carb | lt ol-gy, wthd - rusty dk br, clst (f.g.-c.g., ang-sub rnd, itsl sul-fl) sup brc, py-gal-po-sph-chp (high content) | - |
| 109901 | 2011 | TR11-022A | Beckling | 539132 | 6312897 | 1.26 | channel | 6485 | 1000 | dol-Carb? | f.g., pale ol, brc?, fl (stringers, vnlets), sul (v. abdt, mostly ~0.1cm, py cubes, rare gal patches), lim (rusty, in fracs & on surface), mnz? (gr, itsl) | 18-Sep-11 |
| 109902 | 2011 | TR11-022A | Beckling | 539131 | 6312896 | 1.18 | channel | 7530 | 600 | dol-Carb | f.g., lt gy, mottled, fl gdmass brc, mnz? (gr, itsl), py (cubes, abdt) | 18-Sep-11 |
| 109903 | 2011 | TR11-022A | Beckling | 539131 | 6312895 | 1.24 | channel | 9435 | 1800 | dol-Carb | f.g., lt gy to pale ol, dol-Carb clsts (~30%), fl gdmass (60%), lim, all lineated, shr zone?, py (abdt) | 18-Sep-11 |
| 109904 | 2011 | TR11-022A | Beckling | 539130 | 6312894 | 0.85 | channel | 8930 | 1600 | dol-Carb? | f.g., lt gy to pale ol, bio (minor, layers, f.g.), dol-Carb clsts with bio & fl wrapped around them, sul (v. abdt), qtz (vn cutting) | 18-Sep-11 |
| 109905 | 2011 | TR11-022A | Beckling | 539129 | 6312893 | 1.1 | channel | 5885 | 950 | dol-Carb? | f.g., pale ol, py (abdt), bio (bnds & layers), fl (minor, vnlets, itsl), dol-Carb vn (some, w, c.g., cutting), qtz (some) | 18-Sep-11 |
| 109906 | 2011 | TR11-022A | Beckling | 539129 | 6312891 | 1.57 | channel | 4640 | 400 | dol-Carb? | f.g., lt gy, lim wthg, sul (some), qtz sticking out | 18-Sep-11 |
| 109907 | 2011 | TR11-022A | Beckling | 539128 | 6312891 | 0.52 | channel | 3920 | 750 | dol-Carb? | f.g., lt gy, ukn min (altn?, perv, y-gy), ap? (y, xtls), mnz? (r-br), fl (trace), qtz (patches common), lim along fracs | 18-Sep-11 |

Appendix 7b: (continued)

| Sample ID | Year Sampled | Trench ID | General Location | Easting N83Z19 | Northing N83Z19 | Sample Length (m) | Sample Type | Max CPS | Bag CPS | Basic Litho | Sample Description | Date Sampled |
|-----------|--------------|-----------|------------------|----------------|-----------------|-------------------|-------------|---------|---------|-------------|--|--------------|
| 109908 | 2011 | TR11-022A | Beckling | 539128 | 6312890 | 0.61 | channel | 1270 | 500 | dol-Carb? | f.g., lt gy, fl (patches, ~20%), lim along fracs, mnz? (gr, patches?), py (common) | 18-Sep-11 |
| 109909 | 2011 | TR11-022A | Beckling | 539128 | 6312890 | 0.63 | channel | 1330 | 200 | dol-Carb | lt gy, fl (~20%, v. bright p), sul (some) | 18-Sep-11 |
| 109910 | 2011 | TR11-022A | Beckling | 539127 | 6312889 | 1.17 | channel | 855 | 200 | dol-Carb | f.g., lt gy, bio (layers, ~2%), fl (rare, in similar layers), py (diss) | 18-Sep-11 |
| 109911 | 2011 | TR11-022A | Beckling | 539126 | 6312888 | 0.9 | channel | 985 | 200 | dol-Carb | f.g.-m.g., lt gy, bio-chl (some, layers), fl (big, bright, p, patch, m.g., xtl), bio (minor, layers) | 18-Sep-11 |
| 109912 | 2011 | TR11-022A | Beckling | 539125 | 6312888 | 0.63 | channel | 1130 | 200 | dol-Carb | f.g., lt gy, bio (~10%, layers), ukn min (y-gy, itsl) | 18-Sep-11 |
| 109913 | 2011 | TR11-022A | Beckling | 539125 | 6312887 | 0.56 | channel | 1160 | 280 | dol-Carb? | f.g., lt gy to y-gy, lineated, bio rich gdmass wrapping around clsts, fl (minor) | 18-Sep-11 |
| 109914 | 2011 | TR11-022A | Beckling | 539124 | 6312887 | 0.71 | channel | 1015 | 230 | dol-Carb | f.g., lt gy, lineated, dol-Carb clsts in a fl gdmass (f.g., ~5-10%) wrapping around clsts | 18-Sep-11 |
| 109915 | 2011 | TR11-022A | Beckling | 539124 | 6312886 | 0.67 | channel | 850 | 230 | dol-Carb | f.g., lt gy, lineated, dol-Carb clsts in a fl gdmass (f.g., ~5-10%) wrapping around clsts | 18-Sep-11 |
| 109916 | 2011 | TR11-022A | Beckling | 539124 | 6312886 | 0.64 | channel | 815 | 230 | dol-Carb | f.g., lt gy, lineated, dol-Carb clsts in a fl gdmass (f.g., ~5-10%) wrapping around clsts | 18-Sep-11 |
| 109917 | 2011 | TR11-022B | Beckling | 539119 | 6312919 | 0.62 | channel | 1885 | 300 | dol-Carb | f.g., lt gy, dol-Carb clsts with bio gdmass wrapping around clsts, mnz? (gr, itsl, in Carb), py (diss, all over) | 18-Sep-11 |
| 109918 | 2011 | TR11-022B | Beckling | 539118 | 6312919 | 0.65 | channel | 2635 | 450 | dol-Carb? | f.g., lt gy to pale ol, mottled, fl (stringers) | 18-Sep-11 |
| 109919 | 2011 | TR11-022B | Beckling | 539118 | 6312918 | 1.14 | channel | 2375 | 420 | dol-Carb? | f.g., lt gy, withd - br, mottled, fl (stringers, patches) | 18-Sep-11 |
| 109920 | 2011 | TR11-022B | Beckling | 539117 | 6312918 | 1.02 | channel | 2430 | 360 | dol-Carb | f.g., lt gr-gy, mottled, mnz? (f.g., gr, stringers), fl (few, vnlets) | 18-Sep-11 |
| 109921 | 2011 | TR11-022B | Beckling | 539116 | 6312917 | 0.77 | channel | 1490 | 270 | dol-Carb | f.g., lt gy, bio (clsts, ~30%, lineated) | 18-Sep-11 |
| 109922 | 2011 | TR11-022B | Beckling | 539116 | 6312917 | 1 | channel | 2305 | 230 | dol-Carb | f.g., lt gy, bio (~60%, lineated) | 18-Sep-11 |
| 109923 | 2011 | TR11-022B | Beckling | 539115 | 6312916 | 0.82 | channel | 2515 | 400 | dol-Carb | f.g., lt gy, fl (abdt, ~5-6%)-mnz? (gr, stringer), sul (v. abdt, lineated), lim (some, on fracs) | 18-Sep-11 |
| 109924 | 2011 | TR11-022B | Beckling | 539114 | 6312916 | 0.82 | channel | 1415 | 240 | dol-Carb | f.g., lt gy, bio (~10-15%, lineated, in clsts & bnds), fl (vns xcutting), sul (abdt), qtz (some, vnlets) | 18-Sep-11 |
| 109925 | 2011 | TR11-022C | Beckling | 539090 | 6312939 | 1.3 | channel | 5035 | 480 | dol-Carb | f.g., pale ol, fl (~60%, all lineated), sul (up to 10%, gal-po-py) | 18-Sep-11 |
| 109926 | 2011 | TR11-022C | Beckling | 539090 | 6312939 | 0.75 | channel | 4370 | 480 | dol-Carb | f.g., pale ol, fl (~60%, all lineated), sul (up to 10%) | 18-Sep-11 |
| 109927 | 2011 | TR11-022C | Beckling | 539089 | 6312938 | 0.91 | channel | 5815 | 530 | dol-Carb | f.g.-m.g., fl (patches & stringers)-mnz? (gr), sul (v. abdt), bio (minor, stringers & bnds) | 18-Sep-11 |
| 109928 | 2011 | TR11-022C | Beckling | 539089 | 6312938 | 0.57 | channel | 3530 | 320 | dol-Carb | f.g.-m.g., fl (patches & stringers)-mnz? (gr), sul (v. abdt), bio (minor, stringers & bnds) | 18-Sep-11 |
| 109929 | 2011 | TR11-022C | Beckling | 539090 | 6312937 | 0.52 | channel | 2980 | 300 | dol-Carb | f.g.-m.g., fl (patches & stringers)-mnz? (gr), sul (v. abdt), bio (minor, stringers & bnds) | 18-Sep-11 |
| 109930 | 2011 | TR11-022C | Beckling | 539089 | 6312937 | 0.53 | channel | 3065 | 370 | - | all gravel & dirt, fl (abdt) | 18-Sep-11 |

APPENDIX 7C: 2010 AND 2011 TRENCH SAMPLE ANALYTICAL CERTIFICATES



Date Submitted: 27-Aug-10
Invoice No.: A10-5394 (i)
Invoice Date: 30-Sep-10
Your Reference: 20007

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

1 Pulp sample and 34 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 8-REE-Rare Earth Element Pkg Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF

REPORT A10-5394 (i)

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

[Handwritten signature]

Emmanuel Esemé , Ph.D.
Quality Control



ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A10-5394 (i) rev 1

| Analyte Symbol | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb |
|------------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87301 | 50.43 | 5.32 | 12.14 | 0.338 | 7.50 | 5.46 | 4.83 | 4.01 | 0.871 | 0.02 | 8.43 | 99.34 | 92 | 47 | 396 | 120 | 13 | < 20 | < 10 | 250 | 20 | 6 | < 5 | 22 |
| 87302 | 52.49 | 11.04 | 4.97 | 0.305 | 5.78 | 6.77 | 6.34 | 2.79 | 0.238 | 0.90 | 8.38 | 99.99 | 34 | 52 | 136 | 100 | 12 | 30 | 30 | 140 | 18 | 3 | < 5 | 69 |
| 87303 | 35.11 | 8.39 | 5.65 | 0.340 | 6.94 | 15.65 | 2.81 | 3.31 | 0.507 | 0.04 | 20.53 | 99.28 | 25 | 17 | 78 | 110 | 19 | 40 | 30 | 160 | 15 | 1 | 11 | 45 |
| 87304 | 6.31 | 1.48 | 7.19 | 0.841 | 11.84 | 30.57 | 0.08 | 1.26 | 0.113 | 7.21 | 31.47 | 98.38 | 10 | 6 | 69 | < 20 | 5 | < 20 | 270 | 250 | 9 | 2 | < 5 | 15 |
| 87305 | 47.68 | 10.27 | 8.54 | 0.461 | 4.78 | 6.10 | 2.39 | 5.80 | 0.490 | 0.11 | 12.96 | 99.60 | 12 | 6 | 70 | 40 | 9 | < 20 | < 10 | 90 | 15 | 2 | < 5 | 77 |
| 87306 | 20.46 | 3.72 | 8.38 | 0.811 | 11.38 | 20.14 | 0.11 | 3.15 | 0.149 | 0.31 | 30.68 | 99.29 | 13 | 6 | 77 | 30 | 5 | < 20 | 20 | 130 | 8 | < 1 | < 5 | 46 |
| 87307 | 25.83 | 4.74 | 8.34 | 0.747 | 10.39 | 18.01 | 0.23 | 3.88 | 0.164 | 0.44 | 27.02 | 99.80 | 13 | 11 | 70 | 40 | 8 | < 20 | 50 | 140 | 10 | 1 | < 5 | 60 |
| 87308 | 36.45 | 7.26 | 8.21 | 0.564 | 7.74 | 13.01 | 0.94 | 5.21 | 0.219 | 0.76 | 19.77 | 100.1 | 15 | 8 | 94 | 50 | 9 | < 20 | < 10 | 150 | 13 | 2 | < 5 | 82 |
| 87309 | 42.29 | 8.00 | 7.64 | 0.420 | 6.19 | 9.72 | 0.36 | 7.07 | 0.313 | 0.13 | 17.11 | 99.25 | 17 | 4 | 115 | 60 | 8 | < 20 | < 10 | 150 | 17 | 2 | < 5 | 89 |
| 87310 | 39.65 | 9.40 | 8.63 | 0.301 | 8.14 | 9.54 | 3.14 | 4.27 | 0.299 | 0.40 | 15.02 | 98.80 | 18 | 9 | 76 | 40 | 9 | < 20 | 20 | 140 | 16 | 2 | < 5 | 103 |
| 87311 | 23.36 | 5.65 | 7.78 | 0.556 | 12.37 | 16.78 | 0.84 | 3.64 | 0.334 | 1.01 | 24.95 | 97.26 | 22 | 53 | 83 | 270 | 20 | 100 | 10 | 130 | 10 | 2 | < 5 | 82 |
| 87312 | 48.42 | 11.88 | 5.59 | 0.221 | 6.27 | 7.09 | 4.35 | 4.05 | 0.332 | 0.69 | 10.08 | 98.97 | 20 | 15 | 73 | 50 | 9 | 20 | 20 | 90 | 18 | 2 | < 5 | 93 |
| 87313 | 32.23 | 5.97 | 5.73 | 0.462 | 8.94 | 16.66 | 0.19 | 5.15 | 0.187 | 1.92 | 21.67 | 99.11 | 17 | 6 | 66 | 40 | 6 | < 20 | < 10 | 70 | 11 | 1 | < 5 | 64 |
| 87314 | 12.18 | 2.42 | 17.17 | 0.249 | 15.28 | 18.93 | 0.04 | 2.20 | 0.266 | 8.08 | 22.41 | 99.22 | 28 | 36 | 121 | 40 | 32 | < 20 | < 10 | 260 | 13 | 2 | < 5 | 56 |
| 87315 | 8.87 | 0.13 | 18.16 | 0.266 | 11.86 | 26.48 | 0.67 | 0.04 | 0.103 | 12.70 | 20.38 | 99.67 | 33 | 6 | 102 | < 20 | 20 | < 20 | < 10 | 140 | 9 | 2 | < 5 | < 2 |
| 87316 | 27.18 | 6.40 | 9.78 | 0.217 | 19.12 | 12.50 | 0.15 | 5.34 | 0.492 | 3.36 | 15.43 | 99.98 | 29 | 10 | 110 | 90 | 23 | 20 | < 10 | 150 | 15 | 2 | < 5 | 128 |
| 87317 | 4.02 | 0.22 | 28.52 | 0.293 | 9.01 | 26.26 | 0.07 | 0.07 | 0.176 | 10.30 | 20.40 | 99.34 | 34 | 5 | 186 | < 20 | 36 | < 20 | < 10 | 170 | 13 | 1 | < 5 | < 2 |
| 87318 | 4.51 | 0.32 | 26.31 | 0.269 | 9.27 | 25.13 | 0.17 | 0.02 | 0.148 | 11.34 | 20.88 | 98.36 | 45 | 7 | 153 | < 20 | 46 | < 20 | 10 | 160 | 12 | 2 | < 5 | < 2 |
| 87319 | 24.93 | 7.31 | 15.16 | 0.263 | 16.87 | 9.58 | 0.39 | 5.53 | 1.147 | 3.75 | 14.79 | 99.73 | 33 | 19 | 214 | 30 | 41 | < 20 | 40 | 160 | 22 | 3 | < 5 | 162 |
| 87320 | 4.29 | 0.50 | 6.10 | 0.350 | 15.25 | 30.94 | 0.13 | 0.26 | 0.032 | 4.52 | 37.54 | 99.91 | 31 | 2 | 53 | < 20 | 5 | < 20 | < 10 | 70 | 6 | 1 | < 5 | < 2 |
| 87321 | 6.19 | 0.18 | 27.42 | 0.251 | 6.92 | 27.69 | 0.09 | 0.04 | 0.132 | 16.16 | 14.44 | 99.50 | 31 | 3 | 175 | < 20 | 42 | < 20 | < 10 | 130 | 13 | 2 | 6 | < 2 |
| 87322 | 2.13 | 0.15 | 9.76 | 0.413 | 13.50 | 31.26 | 0.04 | 0.10 | 0.065 | 4.73 | 36.76 | 98.93 | 25 | < 1 | 59 | < 20 | 13 | < 20 | < 10 | 140 | 4 | < 1 | < 5 | < 2 |
| 87323 | 2.63 | 0.30 | 62.13 | 0.361 | 5.76 | 11.19 | 0.12 | 0.07 | 0.306 | 4.53 | 11.66 | 99.07 | 33 | 4 | 399 | < 20 | 63 | < 20 | < 10 | 200 | 26 | 2 | < 5 | < 2 |
| 87324 | 2.38 | 0.70 | 7.94 | 0.308 | 12.75 | 32.68 | 0.20 | 0.32 | 0.047 | 7.52 | 33.18 | 98.03 | 30 | < 1 | 67 | < 20 | 19 | < 20 | < 10 | 70 | 6 | 1 | 8 | < 2 |
| 87325 | 3.04 | 0.89 | 8.53 | 0.412 | 12.42 | 29.91 | 0.04 | 0.73 | 0.043 | 5.10 | 34.83 | 95.94 | 31 | 1 | 86 | < 20 | 18 | < 20 | < 10 | 90 | 7 | 1 | 8 | 4 |
| 67726 | 26.33 | 7.22 | 13.37 | 0.304 | 14.38 | 10.35 | 1.65 | 3.76 | 1.209 | 2.32 | 18.38 | 99.29 | 32 | 13 | 180 | 40 | 33 | < 20 | 60 | 180 | 19 | 3 | < 5 | 107 |
| 67727 | 42.91 | 14.67 | 11.34 | 0.188 | 3.23 | 6.69 | 5.26 | 2.59 | 2.136 | 0.28 | 10.04 | 99.33 | 29 | 8 | 303 | < 20 | 34 | < 20 | 60 | 80 | 19 | 2 | < 5 | 54 |
| 67728 | 17.25 | 4.26 | 9.64 | 0.305 | 14.65 | 20.04 | 0.61 | 2.65 | 0.970 | 3.56 | 24.96 | 98.90 | 30 | 7 | 119 | < 20 | 21 | < 20 | 50 | 140 | 12 | 1 | < 5 | 75 |
| 67729 | 4.54 | 0.32 | 18.17 | 0.238 | 9.80 | 29.29 | 0.16 | 0.04 | 0.103 | 11.98 | 23.62 | 98.25 | 37 | 3 | 97 | < 20 | 25 | < 20 | < 10 | 120 | 8 | 2 | < 5 | < 2 |
| 67730 | 22.87 | 5.94 | 13.90 | 0.171 | 18.12 | 13.14 | 0.16 | 4.85 | 0.241 | 5.55 | 15.80 | 100.7 | 27 | 10 | 95 | 100 | 49 | 30 | 10 | 150 | 14 | 3 | < 5 | 130 |
| 67731 | 3.52 | 1.05 | 7.57 | 0.300 | 12.98 | 30.37 | 0.10 | 0.86 | 0.359 | 6.77 | 27.97 | 91.86 | 9 | 3 | 375 | < 20 | 14 | 20 | 20 | 130 | 7 | < 1 | 8 | 7 |
| 67732 | 3.57 | 1.06 | 7.69 | 0.276 | 12.66 | 30.89 | 0.11 | 0.86 | 0.355 | 7.15 | 27.80 | 92.41 | 10 | 7 | 376 | < 20 | 18 | 30 | 10 | 130 | 7 | < 1 | 8 | 6 |
| 67733 | 3.52 | 1.06 | 4.86 | 0.260 | 13.63 | 33.83 | 0.11 | 0.86 | 0.294 | 8.42 | 31.28 | 98.13 | 9 | 9 | 342 | < 20 | 18 | 30 | 10 | 130 | 7 | < 1 | 9 | 6 |
| 67734 | 97.08 | 0.08 | 0.82 | 0.006 | 0.15 | 0.37 | 0.03 | 0.02 | 0.005 | 0.07 | 0.43 | 99.06 | < 1 | < 1 | < 5 | 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 |
| 67735 | 8.41 | 2.54 | 7.79 | 0.789 | 13.46 | 26.98 | 0.17 | 1.41 | 0.256 | 3.65 | 30.48 | 95.94 | 10 | 6 | 160 | < 20 | 3 | < 20 | < 10 | 340 | 15 | 1 | 11 | 30 |

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| Analyte Symbol | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|------------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 87301 | 323 | 29 | 265 | 10 | 0.7 | < 0.2 | 42 | 0.7 | < 0.5 | 183 | < 0.4 | 1500 | 2550 | 246 | 795 | 86.2 | 17.7 | 38.9 | 3.1 | 10.3 | 1.3 | 2.7 | 0.31 | 1.8 |
| 87302 | 487 | 71 | 113 | 22 | < 0.5 | < 0.2 | 9 | 0.8 | 0.7 | 364 | < 0.4 | 757 | 1220 | 119 | 354 | 45.9 | 12.9 | 35.1 | 4.4 | 20.6 | 3.1 | 6.7 | 0.73 | 3.6 |
| 87303 | 777 | 37 | 63 | 20 | < 0.5 | < 0.2 | 6 | 1.1 | < 0.5 | 365 | < 0.4 | 469 | 834 | 90.4 | 306 | 44.0 | 10.2 | 21.4 | 2.1 | 8.8 | 1.4 | 3.8 | 0.53 | 3.2 |
| 87304 | 2405 | 289 | 73 | 8 | < 0.5 | < 0.2 | 1 | 0.6 | < 0.5 | 97 | < 0.4 | 480 | 1170 | 156 | 643 | 130 | 39.5 | 105 | 15.2 | 77.6 | 12.5 | 27.7 | 3.01 | 14.3 |
| 87305 | 445 | 15 | 200 | < 2 | < 0.5 | < 0.2 | 8 | 1.0 | < 0.5 | 317 | < 0.4 | 132 | 233 | 23.3 | 74.4 | 10.3 | 2.66 | 6.9 | 0.8 | 3.9 | 0.6 | 1.4 | 0.19 | 1.1 |
| 87306 | 1722 | 30 | 91 | < 2 | < 0.5 | < 0.2 | 13 | 0.7 | < 0.5 | 138 | < 0.4 | 152 | 318 | 36.7 | 137 | 24.2 | 6.58 | 15.8 | 1.9 | 8.4 | 1.2 | 2.7 | 0.31 | 1.7 |
| 87307 | 1370 | 38 | 102 | 4 | < 0.5 | < 0.2 | 14 | 0.9 | < 0.5 | 141 | < 0.4 | 187 | 359 | 42.0 | 155 | 28.2 | 7.87 | 19.3 | 2.3 | 10.5 | 1.6 | 3.4 | 0.41 | 2.2 |
| 87308 | 852 | 44 | 175 | 4 | < 0.5 | < 0.2 | 12 | 0.8 | < 0.5 | 147 | < 0.4 | 241 | 460 | 53.1 | 191 | 32.1 | 8.72 | 21.5 | 2.5 | 11.6 | 1.8 | 4.2 | 0.51 | 2.9 |
| 87309 | 655 | 18 | 132 | 6 | < 0.5 | < 0.2 | 57 | 0.9 | < 0.5 | 618 | < 0.4 | 608 | 883 | 81.4 | 241 | 30.4 | 7.03 | 15.0 | 1.4 | 5.7 | 0.8 | 1.7 | 0.20 | 1.1 |
| 87310 | 570 | 16 | 147 | < 2 | < 0.5 | < 0.2 | 5 | 0.7 | 1.4 | 124 | < 0.4 | 151 | 301 | 33.7 | 120 | 17.1 | 3.95 | 8.8 | 1.0 | 4.2 | 0.7 | 1.8 | 0.26 | 1.8 |
| 87311 | 1240 | 36 | 92 | < 2 | < 0.5 | < 0.2 | 2 | 0.6 | 1.5 | 468 | < 0.4 | 248 | 458 | 53.0 | 192 | 30.8 | 7.85 | 19.1 | 2.2 | 9.5 | 1.4 | 3.4 | 0.42 | 2.5 |
| 87312 | 604 | 26 | 127 | < 2 | < 0.5 | < 0.2 | 7 | 0.6 | 0.7 | 166 | < 0.4 | 88.6 | 186 | 22.1 | 85.5 | 15.0 | 4.29 | 10.5 | 1.4 | 6.5 | 1.0 | 2.3 | 0.30 | 1.7 |
| 87313 | 1364 | 47 | 168 | 5 | < 0.5 | < 0.2 | 7 | 0.7 | < 0.5 | 176 | < 0.4 | 203 | 397 | 47.8 | 181 | 32.2 | 9.07 | 22.5 | 2.8 | 13.2 | 2.0 | 4.6 | 0.55 | 3.0 |
| 87314 | 1613 | 48 | 1343 | < 2 | < 0.5 | < 0.2 | 2 | 0.7 | 1.8 | 805 | < 0.4 | 158 | 395 | 54.3 | 220 | 39.5 | 10.4 | 27.3 | 3.2 | 14.5 | 2.2 | 4.9 | 0.56 | 2.8 |
| 87315 | 1644 | 73 | 2044 | < 2 | < 0.5 | < 0.2 | 4 | 0.6 | < 0.5 | 995 | < 0.4 | 236 | 583 | 79.9 | 324 | 58.1 | 15.3 | 40.1 | 4.7 | 21.4 | 3.2 | 7.1 | 0.78 | 4.1 |
| 87316 | 940 | 34 | 468 | < 2 | 1.0 | < 0.2 | 6 | < 0.5 | 6.0 | 976 | < 0.4 | 102 | 245 | 30.9 | 122 | 21.7 | 5.75 | 15.3 | 1.9 | 9.1 | 1.5 | 3.4 | 0.43 | 2.5 |
| 87317 | 1853 | 100 | 997 | < 2 | 0.5 | < 0.2 | 10 | < 0.5 | < 0.5 | 288 | < 0.4 | 217 | 539 | 75.1 | 306 | 57.1 | 15.6 | 41.6 | 5.4 | 25.4 | 4.1 | 9.8 | 1.20 | 6.8 |
| 87318 | 1849 | 81 | 1579 | < 2 | < 0.5 | < 0.2 | 12 | 0.9 | < 0.5 | 456 | < 0.4 | 278 | 658 | 87.3 | 348 | 62.0 | 16.4 | 43.2 | 5.3 | 23.6 | 3.7 | 8.3 | 0.97 | 5.1 |
| 87319 | 777 | 43 | 461 | < 2 | 1.2 | < 0.2 | 7 | 1.3 | 5.6 | 2019 | < 0.4 | 115 | 272 | 34.1 | 134 | 24.1 | 6.55 | 17.2 | 2.2 | 10.8 | 1.8 | 4.2 | 0.54 | 3.0 |
| 87320 | 2308 | 106 | 531 | 3 | 1.1 | < 0.2 | < 1 | < 0.5 | < 0.5 | 278 | < 0.4 | 270 | 580 | 72.3 | 274 | 49.0 | 13.5 | 35.9 | 4.9 | 25.2 | 4.3 | 10.8 | 1.40 | 8.3 |
| 87321 | 1909 | 87 | 1125 | < 2 | < 0.5 | < 0.2 | 19 | 0.7 | < 0.5 | 201 | < 0.4 | 283 | 693 | 94.9 | 387 | 70.6 | 18.7 | 49.1 | 6.0 | 25.7 | 3.9 | 8.3 | 0.87 | 4.4 |
| 87322 | 1132 | 122 | 407 | < 2 | 1.0 | < 0.2 | 2 | < 0.5 | < 0.5 | 235 | < 0.4 | 207 | 513 | 68.8 | 272 | 51.6 | 14.5 | 38.5 | 5.4 | 27.2 | 4.6 | 11.5 | 1.47 | 8.5 |
| 87323 | 875 | 41 | 703 | < 2 | 1.0 | < 0.2 | 49 | < 0.5 | < 0.5 | 85 | < 0.4 | 102 | 254 | 33.4 | 137 | 25.4 | 6.79 | 17.8 | 2.1 | 10.3 | 1.7 | 3.9 | 0.48 | 2.6 |
| 87324 | 1498 | 172 | 202 | 10 | 0.6 | < 0.2 | < 1 | 0.6 | < 0.5 | 98 | < 0.4 | 402 | 940 | 122 | 480 | 89.7 | 25.3 | 66.8 | 8.9 | 42.9 | 7.1 | 16.6 | 2.03 | 11.0 |
| 87325 | 1308 | 113 | 97 | 10 | < 0.5 | < 0.2 | 1 | 0.6 | < 0.5 | 152 | < 0.4 | 479 | 996 | 121 | 455 | 78.2 | 21.0 | 53.0 | 6.9 | 30.6 | 4.8 | 10.8 | 1.25 | 6.5 |
| 67726 | 723 | 35 | 284 | < 2 | 0.7 | < 0.2 | 9 | 0.8 | 4.2 | 2235 | < 0.4 | 173 | 343 | 41.4 | 155 | 25.2 | 6.36 | 15.6 | 1.9 | 9.0 | 1.5 | 3.7 | 0.49 | 2.9 |
| 67727 | 211 | 25 | 141 | < 2 | < 0.5 | < 0.2 | 2 | < 0.5 | 1.6 | 1252 | < 0.4 | 34.2 | 68.5 | 8.01 | 31.0 | 6.3 | 1.70 | 5.6 | 0.9 | 5.2 | 1.0 | 2.9 | 0.43 | 2.8 |
| 67728 | 1595 | 54 | 403 | < 2 | 1.0 | < 0.2 | 3 | < 0.5 | 3.0 | 693 | < 0.4 | 136 | 339 | 44.1 | 179 | 35.3 | 9.53 | 24.8 | 3.1 | 14.5 | 2.3 | 5.5 | 0.67 | 3.8 |
| 67729 | 1884 | 95 | 988 | < 2 | 0.5 | < 0.2 | 6 | 0.6 | < 0.5 | 86 | < 0.4 | 297 | 711 | 96.1 | 383 | 68.5 | 18.1 | 47.2 | 5.9 | 26.5 | 4.1 | 9.1 | 1.06 | 5.6 |
| 67730 | 1099 | 36 | 801 | < 2 | 0.6 | < 0.2 | 4 | 0.8 | 4.7 | 2294 | < 0.4 | 118 | 297 | 39.0 | 158 | 28.8 | 7.54 | 19.7 | 2.4 | 10.5 | 1.6 | 3.5 | 0.40 | 2.0 |
| 67731 | 1373 | 114 | 148 | 3 | < 0.5 | < 0.2 | 1 | 0.8 | < 0.5 | 193 | < 0.4 | 455 | 1060 | 122 | 430 | 64.7 | 17.5 | 42.3 | 5.5 | 27.6 | 4.7 | 11.4 | 1.36 | 7.0 |
| 67732 | 1480 | 122 | 156 | 6 | < 0.5 | < 0.2 | 1 | 0.7 | < 0.5 | 201 | < 0.4 | 370 | 880 | 105 | 381 | 61.5 | 17.0 | 43.0 | 5.8 | 29.8 | 5.1 | 12.1 | 1.48 | 7.6 |
| 67733 | 1685 | 129 | 202 | 9 | < 0.5 | < 0.2 | 1 | 0.7 | < 0.5 | 237 | < 0.4 | 385 | 955 | 115 | 417 | 66.4 | 18.2 | 45.2 | 6.4 | 30.8 | 5.3 | 12.3 | 1.43 | 7.5 |
| 67734 | 19 | < 2 | 7 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 6 | < 0.4 | 3.7 | 8.5 | 0.97 | 3.4 | 0.6 | 0.14 | 0.4 | < 0.1 | 0.2 | < 0.1 | < 0.1 | < 0.05 | < 0.1 |
| 67735 | 989 | 126 | 469 | 7 | 1.1 | < 0.2 | 3 | < 0.5 | 0.7 | 1299 | < 0.4 | 324 | 752 | 93.7 | 359 | 63.8 | 18.0 | 43.8 | 6.1 | 29.8 | 5.1 | 12.5 | 1.62 | 9.0 |

| Analyte Symbol | Lu | Hf | W | Ti | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87301 | 0.25 | 13.1 | 3 | 0.2 | < 5 | 62.5 | 0.4 | < 0.003 | 0.038 |
| 87302 | 0.45 | 3.9 | 2 | 0.4 | 14 | 54.3 | 1.1 | < 0.003 | 0.019 |
| 87303 | 0.50 | 1.1 | 2 | 0.3 | 32 | 45.9 | 0.3 | < 0.003 | 0.034 |
| 87304 | 1.75 | 1.0 | 3 | < 0.1 | 105 | 71.7 | 1.2 | < 0.003 | 0.025 |
| 87305 | 0.17 | 6.3 | 11 | 0.1 | 10 | 15.2 | 0.6 | < 0.003 | 0.018 |
| 87306 | 0.24 | 2.3 | 7 | < 0.1 | 23 | 31.0 | 1.6 | < 0.003 | 0.132 |
| 87307 | 0.31 | 2.8 | 6 | 0.1 | 18 | 32.2 | 1.0 | < 0.003 | 0.073 |
| 87308 | 0.41 | 4.9 | 5 | 0.2 | 20 | 30.7 | 0.6 | < 0.003 | 0.041 |
| 87309 | 0.16 | 4.9 | 6 | 0.2 | 13 | 50.9 | 0.4 | < 0.003 | 0.030 |
| 87310 | 0.30 | 3.6 | 4 | 0.3 | 16 | 17.1 | 1.4 | < 0.003 | 0.025 |
| 87311 | 0.38 | 1.5 | 4 | 0.3 | 33 | 33.8 | 12.1 | 0.003 | 0.052 |
| 87312 | 0.24 | 3.3 | 3 | 0.2 | 9 | 12.3 | 1.5 | < 0.003 | 0.019 |
| 87313 | 0.41 | 3.3 | 4 | 0.2 | 10 | 38.9 | 2.1 | < 0.003 | 0.061 |
| 87314 | 0.37 | 2.0 | 3 | 0.3 | 489 | 27.4 | 365 | 0.033 | 0.202 |
| 87315 | 0.54 | 2.4 | < 1 | < 0.1 | 237 | 27.3 | 525 | 0.056 | 0.236 |
| 87316 | 0.35 | 7.3 | < 1 | 0.3 | 113 | 32.6 | 208 | 0.018 | 0.124 |
| 87317 | 0.93 | 1.8 | < 1 | < 0.1 | 77 | 41.3 | 110 | 0.013 | 0.080 |
| 87318 | 0.70 | 8.3 | 3 | < 0.1 | 306 | 33.7 | 272 | 0.027 | 0.128 |
| 87319 | 0.40 | 7.2 | 8 | 0.7 | 230 | 39.7 | 337 | 0.034 | 0.171 |
| 87320 | 1.22 | 5.1 | < 1 | < 0.1 | 179 | 67.8 | 59.0 | 0.004 | 0.078 |
| 87321 | 0.57 | 10.3 | 2 | < 0.1 | 100 | 25.7 | 220 | 0.027 | 0.126 |
| 87322 | 1.19 | 5.4 | 1 | < 0.1 | 564 | 55.7 | 105 | 0.011 | 0.053 |
| 87323 | 0.37 | 4.7 | 2 | < 0.1 | 53 | 20.5 | 103 | 0.014 | 0.070 |
| 87324 | 1.56 | 3.2 | 2 | < 0.1 | 104 | 47.8 | 139 | 0.011 | 0.072 |
| 87325 | 0.91 | 1.6 | 1 | < 0.1 | 171 | 100 | 164 | 0.019 | 0.196 |
| 67726 | 0.45 | 4.7 | 5 | 0.3 | 138 | 34.4 | 165 | 0.015 | 0.097 |
| 67727 | 0.45 | 3.5 | 6 | 0.1 | < 5 | 6.3 | 1.9 | < 0.003 | 0.006 |
| 67728 | 0.59 | 6.0 | 7 | 0.1 | 97 | 45.6 | 151 | 0.012 | 0.123 |
| 67729 | 0.80 | 2.3 | 3 | < 0.1 | 233 | 33.3 | 287 | 0.029 | 0.135 |
| 67730 | 0.28 | 2.2 | < 1 | 0.3 | 177 | 22.3 | 222 | 0.022 | 0.112 |
| 67731 | 0.93 | 1.0 | 6 | 0.5 | 29 | 96.7 | 51.3 | 0.010 | 0.418 |
| 67732 | 1.05 | 1.2 | 5 | 0.4 | 44 | 96.0 | 42.5 | 0.009 | 0.398 |
| 67733 | 1.01 | 1.3 | 4 | 0.3 | 67 | 131 | 56.1 | 0.009 | 0.601 |
| 67734 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | 1.1 | 1.0 | < 0.003 | < 0.003 |
| 67735 | 1.28 | 3.8 | 3 | < 0.1 | 20 | 147 | 17.2 | 0.004 | 0.681 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--|
| Analyte Symbol | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | |
| Unit Symbol | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| WMG-1 Meas | | | | | | | | | | | | | | | | 760 | 204 | 2560 | 5940 | 120 | 10 | | 8 | | |
| WMG-1 Cert | | | | | | | | | | | | | | | | 770 | 200 | 2700 | 5900 | 110 | 10.3 | | 7.00 | | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | 11.31 | 1.91 | 0.76 | 0.009 | 0.36 | 44.33 | 0.88 | 0.55 | 0.119 | 30.21 | | | | | 1683 | | | | | | | | | | |
| NIST 694 Cert | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | | | |
| DNC-1 Meas | 47.11 | 18.42 | 9.84 | 0.147 | 10.16 | 11.03 | 1.89 | 0.22 | 0.487 | 0.07 | | | 31 | | 157 | 260 | 58 | 250 | 100 | 80 | | | | | |
| DNC-1 Cert | 47.15 | 18.34 | 9.97 | 0.150 | 10.13 | 11.49 | 1.890 | 0.234 | 0.480 | 0.070 | | | 31 | | 148.0 | 270.0 | 57.0 | 247 | 100.0 | 70.0 | | | | | |
| GBW 07113 Meas | 73.64 | 12.98 | 3.36 | 0.143 | 0.15 | 0.59 | 2.49 | 5.42 | 0.290 | 0.04 | | | 5 | 4 | < 5 | | | | | | | | | | |
| GBW 07113 Cert | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | 31 | 50 | 40 | 150 | | | 28 | 78 | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | 30.0 | 47.0 | 35.0 | 152 | | | 27.0 | 78.0 | |
| NIST 1633b Meas | 48.42 | 28.22 | 11.15 | 0.019 | 0.78 | 2.09 | 0.26 | 2.31 | 1.304 | 0.53 | | | 41 | | 304 | | | | | | | | | | |
| NIST 1633b Cert | 49.2 | 28.4 | 11.1 | 0.0200 | 0.800 | 2.11 | 0.270 | 2.35 | 1.32 | 0.530 | | | 41.0 | | 296 | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 52.22 | 15.27 | 10.76 | 0.167 | 6.31 | 10.70 | 2.18 | 0.61 | 1.079 | 0.13 | | | 35 | < 1 | 277 | 80 | 42 | 60 | | | 17 | 2 | < 5 | 19 | |
| W-2a Cert | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | | | 17.0 | 1.00 | 1.20 | 21.0 | |
| SY-4 Meas | 49.47 | 20.83 | 6.02 | 0.107 | 0.51 | 7.99 | 7.00 | 1.69 | 0.287 | 0.11 | | | 1 | 3 | 8 | | | | | | | | | | |
| SY-4 Cert | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | < 1 | 60 | 40 | | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | 2.72 | 54.0 | 38.0 | | | | | |
| BIR-1a Meas | 47.71 | 15.46 | 11.36 | 0.173 | 9.63 | 13.00 | 1.77 | 0.02 | 0.970 | 0.03 | | | 43 | < 1 | 335 | 380 | 55 | 170 | 130 | 80 | 16 | 2 | < 5 | < 2 | |
| BIR-1a Cert | 47.8 | 15.4 | 11.3 | 0.171 | 9.68 | 13.2 | 1.75 | 0.0300 | 0.960 | 0.0500 | | | 44.0 | 0.580 | 313 | 382 | 51.4 | 166 | 126 | 71.0 | 16.0 | 1.50 | 0.440 | 0.250 | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | 25 | 70 | 2590 | 7400 | 25 | | | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | 20 | 3 | < 20 | | 100 | 16 | 11 | 69 | 494 | |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | 30 | 3.7 | 2.8 | | 100.000 | 16.5 | 11.2 | 69.9 | 500.00 | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | 17 | | 170 | | | | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | 18.1 | | 169 | | | | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | 46 | | | | | | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | 48.8 | | | | | | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Meas | 66.00 | 13.49 | 2.28 | 0.054 | 0.08 | | 0.59 | 5.51 | 0.168 | < 0.01 | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | 66.90 | 14.26 | 2.24 | 0.052 | 0.11 | | 0.66 | 5.52 | 0.17 | 0.020 | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87309 Orig | 42.54 | 8.08 | 7.70 | 0.423 | 6.23 | 9.78 | 0.36 | 6.95 | 0.319 | 0.13 | 17.11 | 99.62 | 17 | 4 | 115 | 60 | 8 | < 20 | < 10 | 150 | 17 | 2 | < 5 | 90 | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | As | Rb | |
| Unit Symbol | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | 5 | 2 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| 87309 Dup | 42.03 | 7.92 | 7.59 | 0.416 | 6.15 | 9.67 | 0.36 | 7.18 | 0.308 | 0.14 | 17.11 | 98.88 | 17 | 5 | 114 | 50 | 8 | < 20 | < 10 | 150 | 17 | 2 | < 5 | 89 | |
| 67726 Orig | 26.47 | 7.25 | 13.38 | 0.304 | 14.45 | 10.39 | 1.67 | 3.79 | 1.198 | 2.36 | 18.38 | 99.63 | 32 | 13 | 180 | 40 | 34 | < 20 | 70 | 180 | 20 | 3 | < 5 | 108 | |
| 67726 Dup | 26.20 | 7.20 | 13.36 | 0.303 | 14.32 | 10.31 | 1.64 | 3.73 | 1.220 | 2.29 | 18.38 | 98.95 | 32 | 13 | 180 | 40 | 33 | < 20 | 50 | 170 | 19 | 3 | < 5 | 105 | |
| 67735 Orig | 8.41 | 2.52 | 7.74 | 0.790 | 13.46 | 27.05 | 0.16 | 1.37 | 0.258 | 3.61 | 30.48 | 95.86 | 10 | 6 | 158 | < 20 | 3 | < 20 | < 10 | 320 | 15 | 1 | 11 | 29 | |
| 67735 Dup | 8.42 | 2.56 | 7.84 | 0.787 | 13.46 | 26.91 | 0.17 | 1.44 | 0.254 | 3.69 | 30.48 | 96.01 | 10 | 6 | 161 | < 20 | 3 | < 20 | < 10 | 350 | 15 | 1 | 11 | 30 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | < 5 | < 2 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--|
| Analyte Symbol | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | | |
| Detection Limit | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | | |
| WMG-1 Meas | | | | < 2 | 1.6 | | 2 | 2.1 | < 0.5 | | | | | | | 2.5 | 0.74 | | 0.5 | 2.5 | 0.5 | | 0.19 | 1.4 | | |
| WMG-1 Cert | | | | 1.40 | 2.70 | | 2.20 | 1.80 | 0.480 | | | | | | | 2.30 | 0.820 | | 0.300 | 2.80 | 0.500 | | 0.200 | 1.30 | | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAN-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | 144 | 17 | 36 | | | | | 1.2 | | 104 | | 3.7 | | | 5.2 | | 0.60 | | | | | | | 2.1 | | |
| DNC-1 Cert | 144.0 | 18.0 | 38 | | | | | 0.96 | | 118 | | 3.6 | | | 5.20 | | 0.59 | | | | | | | 2.0 | | |
| GBW 07113 Meas | 41 | 47 | 434 | | | | | | | 494 | | | | | | | | | | | | | | | | |
| GBW 07113 Cert | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | < 2 | 2.5 | | 2 | 1.0 | 2.4 | | | 51.3 | 91.9 | | 43.4 | 8.0 | 1.44 | | | 5.0 | | | | 2.8 | | |
| LKSD-3 Cert | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | 52.0 | 90.0 | | 44.0 | 8.00 | 1.50 | | | 4.90 | | | | 2.70 | | |
| NIST 1633b Meas | 1043 | | | | | | | | | 685 | | | | | | | | | | | | | | | | |
| NIST 1633b Cert | 1040 | | | | | | | | | 709 | | | | | | | | | | | | | | | | |
| AC-E Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC-E Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | 193 | 20 | 90 | < 2 | < 0.5 | | | | 0.8 | 169 | < 0.4 | 11.7 | 25.5 | | 13.0 | 3.3 | 1.08 | | | 3.8 | 0.8 | 2.2 | 0.32 | 2.1 | | |
| W-2a Cert | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | | 3.60 | 0.760 | 2.50 | 0.380 | 2.10 | | |
| SY-4 Meas | 1195 | 119 | 520 | | | | | | | 332 | | | | | | | | | | | | | | | | |
| SY-4 Cert | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | 2140 | 3320 | | 1120 | 166 | 45.2 | 131 | 13.6 | | | | | 11.0 | | |
| CTA-AC-1 Cert | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | | 11.4 | | |
| BIR-1a Meas | 106 | 14 | 16 | < 2 | < 0.5 | | 1 | | < 0.5 | 8 | < 0.4 | | | 0.44 | 2.6 | 1.1 | 0.53 | 1.7 | 0.5 | | 0.6 | 1.7 | 0.25 | 1.6 | | |
| BIR-1a Cert | 108 | 16.0 | 16.0 | 0.500 | 0.0360 | | 0.650 | | 0.00500 | 7.00 | 0.0200 | | | 0.380 | 2.50 | 1.10 | 0.540 | 1.85 | 0.360 | | 0.570 | 1.70 | 0.260 | 1.65 | | |
| NCS DC86312 Meas | | | | | | | | | | | | 2350 | 184 | | 1570 | | | 224 | 33.8 | | 184 | 35.7 | 96.4 | 14.4 | 87.5 | |
| NCS DC86312 Cert | | | | | | | | | | | | 2380.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | | 183.00 | 35.70 | 96.2 | 15.1 | 87.79 | |
| VS-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VS-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | 270 | 16.8 | | | 180 | | 80.3 | 44.4 | 86.5 | 9.68 | 36.2 | 7.9 | 1.61 | 7.3 | 1.1 | 6.2 | 1.2 | 3.3 | 0.49 | 3.4 | | | |
| NCS DC70014 Cert | | | | 270.000 | 16.7 | | | 180.000 | | 80.3 | 45.3 | 87.0 | 10.8 | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | 0.57 | 3.3 | | | |
| NCS DC70009 (GBW07241) Meas | | | | | 1.9 | 1.3 | 1700 | | 42.6 | | | 23.9 | 61.2 | 7.81 | 31.9 | 12.5 | 0.12 | 14.4 | 3.5 | 21.2 | 4.5 | 13.0 | 2.37 | 16.3 | | |
| NCS DC70009 (GBW07241) Cert | | | | | 1.8 | 1.3 | 1701 | | 41 | | | 23.7 | 60.3 | 7.9 | 32.9 | 12.5 | 0.16 | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | 2.2 | 14.9 | | |
| OREAS 100a (Fusion) Meas | | | | 22 | | | | | | | | 256 | 452 | 45.4 | 145 | 23.7 | 3.54 | 22.6 | 3.6 | 22.5 | 4.9 | 14.4 | 2.41 | 15.3 | | |
| OREAS 100a (Fusion) Cert | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | 2.31 | 14.9 | | |
| OREAS 101a (Fusion) Meas | | | | 19 | | | | | | | | 817 | 1300 | 128 | 409 | 49.9 | 7.92 | | 4.5 | 31.7 | 6.6 | 19.0 | 2.96 | 18.1 | | |
| OREAS 101a (Fusion) Cert | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | 5.92 | 33.3 | 6.46 | 19.5 | 2.90 | 17.5 | | |
| JR-1 Meas | | | | 3 | < 0.5 | < 0.2 | 3 | 1.2 | 20.9 | | 0.5 | 20.0 | 47.1 | 5.96 | 23.1 | 5.8 | 0.26 | 5.0 | 1.0 | 6.3 | 1.3 | 4.1 | 0.71 | 4.9 | | |
| JR-1 Cert | | | | 3.25 | 0.031 | 0.028 | 2.86 | 1.19 | 20.8 | | 0.56 | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | 1.11 | 3.61 | 0.67 | 4.55 | | |
| NCS DC86318 Meas | | 17070 | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | 17010 | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-01 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-04 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SX18-05 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Meas | | | 11170 | | | | | | | | | | | | | | | | | | | | | | | |
| SARM 3 Cert | | | 11119 | | | | | | | | | | | | | | | | | | | | | | | |
| 87309 Orig | 671 | 19 | 134 | 6 | < 0.5 | < 0.2 | 57 | 0.7 | < 0.5 | 624 | < 0.4 | 601 | 874 | 80.6 | 240 | 30.2 | 7.01 | 14.9 | 1.4 | 5.6 | 0.8 | 1.7 | 0.20 | 1.1 | | |

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.05 | 0.1 | |
| Analysis Method | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| 87309 Dup | 638 | 17 | 131 | 6 | < 0.5 | < 0.2 | 57 | 1.0 | < 0.5 | 611 | < 0.4 | 615 | 892 | 82.3 | 243 | 30.6 | 7.06 | 15.0 | 1.5 | 5.7 | 0.8 | 1.8 | 0.20 | 1.1 | |
| 67726 Orig | 725 | 35 | 288 | < 2 | 0.7 | < 0.2 | 9 | 0.8 | 4.3 | 2236 | < 0.4 | 175 | 346 | 41.6 | 157 | 25.5 | 6.42 | 15.8 | 1.9 | 9.3 | 1.5 | 3.8 | 0.50 | 2.9 | |
| 67726 Dup | 720 | 34 | 279 | < 2 | 0.7 | < 0.2 | 9 | 0.7 | 4.2 | 2233 | < 0.4 | 171 | 340 | 41.2 | 153 | 24.9 | 6.30 | 15.3 | 1.9 | 8.8 | 1.5 | 3.6 | 0.48 | 2.8 | |
| 67735 Orig | 985 | 127 | 466 | 7 | 1.1 | < 0.2 | 3 | 0.6 | 0.7 | 1322 | < 0.4 | 325 | 755 | 93.9 | 358 | 63.7 | 18.0 | 43.5 | 6.0 | 29.6 | 5.1 | 12.5 | 1.65 | 9.0 | |
| 67735 Dup | 992 | 125 | 471 | 7 | 1.2 | < 0.2 | 2 | < 0.5 | 0.7 | 1276 | < 0.4 | 323 | 750 | 93.6 | 360 | 64.0 | 18.0 | 44.2 | 6.2 | 30.0 | 5.1 | 12.5 | 1.59 | 9.1 | |
| Method Blank Method Blank | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
|-----------------------------|--------|--------|---------|--------|----------|--------|--------|---------|---------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| WMG-1 Meas | 0.20 | 1.4 | 3 | | 19 | 1.4 | 0.7 | | |
| WMG-1 Cert | 0.210 | 1.30 | 1.30 | | 15.0 | 1.10 | 0.650 | | |
| DH-1a Meas | | | | | | 918 | | | |
| DH-1a Cert | | | | | | 910 | | | |
| TAN-1 Meas | | | | | | | | 0.290 | |
| TAN-1 Cert | | | | | | | | 0.288 | |
| NIST 694 Meas | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | |
| DNC-1 Meas | | | | | | | | | |
| DNC-1 Cert | | | | | | | | | |
| GBW 07113 Meas | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | |
| LKSD-3 Meas | 0.41 | 4.6 | < 1 | | 35 | 10.9 | 4.7 | | |
| LKSD-3 Cert | 0.400 | 4.80 | 2.00 | | 29.0 | 11.4 | 4.60 | | |
| NIST 1633b Meas | | | | | | | | | |
| NIST 1633b Cert | | | | | | | | | |
| AC-E Meas | | | | | | | | | 0.015 |
| AC-E Cert | | | | | | | | | 0.016 |
| OKA-1 Meas | | | | | | | | | 0.534 |
| OKA-1 Cert | | | | | | | | | 0.529 |
| W-2a Meas | 0.29 | 2.4 | | < 0.1 | 9 | 2.3 | 0.5 | | |
| W-2a Cert | 0.330 | 2.60 | | 0.200 | 9.30 | 2.40 | 0.530 | | |
| SY-4 Meas | | | | | | | | | |
| SY-4 Cert | | | | | | | | | |
| CTA-AC-1 Meas | 1.13 | | | | | 20.9 | 4.2 | | |
| CTA-AC-1 Cert | 1.08 | | | | | 21.8 | 4.4 | | |
| BIR-1a Meas | 0.24 | 0.6 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| BIR-1a Cert | 0.260 | 0.600 | 0.0700 | 0.0100 | 3.00 | 0.0300 | 0.0100 | | |
| NCS DC86312 Meas | 12.0 | | | | | 25.4 | | | |
| NCS DC86312 Cert | 11.96 | | | | | 23.6 | | | |
| VS-N Meas | | | | | | | | 0.097 | 0.099 |
| VS-N Cert | | | | | | | | 0.098 | 0.10 |
| NCS DC70014 Meas | 0.48 | | | | 27200 | | | | |
| NCS DC70014 Cert | 0.50 | | | | 27200.00 | | | | |
| NCS DC70009 (GBW07241) Meas | 2.26 | | 2280 | 2.1 | | 27.6 | | | |
| NCS DC70009 (GBW07241) Cert | 2.4 | | 2200.00 | 1.8 | | 28.3 | | | |
| OREAS 100a (Fusion) Meas | 2.15 | | | | | 51.3 | 141 | | |
| OREAS 100a (Fusion) Cert | 2.26 | | | | | 51.6 | 135 | | |
| OREAS 101a (Fusion) Meas | 2.46 | | | | | 35.7 | 434 | | |
| OREAS 101a (Fusion) Cert | 2.66 | | | | | 36.6 | 422 | | |
| JR-1 Meas | 0.70 | 4.3 | | 1.3 | 20 | 27.3 | 9.3 | | |
| JR-1 Cert | 0.71 | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 | | |
| NCS DC86318 Meas | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | |
| SX18-01 Meas | | | | | | | | 0.004 | 0.699 |
| SX18-01 Cert | | | | | | | | 0.005 | 0.695 |
| SX18-04 Meas | | | | | | | | 0.007 | 1.352 |
| SX18-04 Cert | | | | | | | | 0.005 | 1.32 |
| SX18-05 Meas | | | | | | | | 0.004 | 0.982 |
| SX18-05 Cert | | | | | | | | 0.004 | 0.973 |
| SARM 3 Meas | | | | | | | | | |
| SARM 3 Cert | | | | | | | | | |
| 87309 Orig | 0.16 | 4.9 | 6 | 0.2 | 13 | 50.7 | 0.4 | < 0.003 | 0.030 |

| Quality Control | | | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Analyte Symbol | Lu | Hf | W | Tl | Pb | Th | U | Ta2O5 | Nb2O5 |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| Detection Limit | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | 0.003 | 0.003 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-XRF | FUS-XRF |
| 87309 Dup | 0.16 | 4.9 | 6 | 0.2 | 13 | 51.1 | 0.5 | < 0.003 | 0.029 |
| 67726 Orig | 0.46 | 4.9 | 5 | 0.4 | 140 | 34.6 | 164 | 0.015 | 0.098 |
| 67726 Dup | 0.44 | 4.6 | 4 | 0.3 | 136 | 34.1 | 167 | 0.016 | 0.097 |
| 67735 Orig | 1.27 | 4.0 | 3 | < 0.1 | 20 | 147 | 17.2 | 0.005 | 0.679 |
| 67735 Dup | 1.29 | 3.6 | 3 | < 0.1 | 20 | 146 | 17.3 | 0.004 | 0.683 |
| Method Blank Method Blank | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 | | |
| Method Blank Method Blank | | | | | | | | < 0.003 | < 0.003 |



Date Submitted: 24-Oct-11
Invoice No.: A11-12462-8REE,F,1A2
Invoice Date: 29-Nov-11
Your Reference: BATCH # 24

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

56 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-12462-8REE,F,

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control



ACTIVATION LABORATORIES LTD.

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+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-12462-8REE,F,1A2

| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 107976 | 7 | 6.57 | 3.12 | 0.55 | 7.51 | 1.591 | 11.70 | 32.38 | 0.08 | 0.26 | 0.032 | 2.32 | 32.17 | 91.71 | 103 | 7 | 29 | < 20 | < 1 | < 20 | < 10 | 350 | 36 | 1 |
| 107977 | < 5 | 4.40 | 1.77 | 0.19 | 9.20 | 1.677 | 12.02 | 31.23 | 0.01 | 0.10 | 0.009 | 2.57 | 33.28 | 92.07 | 92 | 8 | 22 | < 20 | 1 | < 20 | < 10 | 50 | 50 | 3 |
| 107978 | < 5 | 1.19 | 7.68 | 2.39 | 7.10 | 0.881 | 13.82 | 26.59 | 0.12 | 1.49 | 0.138 | 4.80 | 31.23 | 96.24 | 72 | 13 | 57 | 30 | 10 | < 20 | < 10 | 110 | 20 | < 1 |
| 107979 | < 5 | 0.73 | 7.90 | 1.96 | 7.08 | 1.016 | 14.24 | 26.02 | 0.31 | 0.90 | 0.102 | 2.32 | 35.08 | 96.93 | 77 | 357 | 49 | 20 | 15 | < 20 | 10 | 250 | 14 | < 1 |
| 87696 | < 5 | 4.34 | 1.90 | 0.39 | 7.09 | 1.421 | 13.04 | 31.46 | 0.02 | 0.24 | 0.034 | 1.88 | 36.07 | 93.55 | 100 | 3 | 20 | < 20 | < 1 | < 20 | < 10 | 50 | 37 | < 1 |
| 107980 | < 5 | 0.15 | 94.17 | 0.10 | 0.96 | 0.069 | 0.35 | 0.93 | 0.02 | 0.04 | 0.004 | 0.10 | 1.11 | 97.84 | 4 | < 1 | < 5 | < 20 | < 1 | < 20 | < 10 | < 30 | 2 | < 1 |
| 107981 | < 5 | 0.84 | 37.53 | 7.33 | 8.41 | 0.502 | 6.42 | 14.70 | 1.40 | 2.16 | 1.051 | 1.03 | 16.51 | 97.04 | 62 | 29 | 149 | 60 | 9 | < 20 | 30 | 240 | 18 | < 1 |
| 107982 | < 5 | 11.2 | 2.59 | 0.73 | 5.69 | 1.062 | 11.22 | 40.38 | 0.06 | 0.33 | 0.085 | 3.84 | 27.97 | 93.96 | 143 | 30 | 34 | < 20 | < 1 | < 20 | < 10 | 120 | 33 | < 1 |
| 107983 | < 5 | 7.62 | 17.07 | 5.77 | 5.74 | 0.663 | 8.05 | 29.74 | 1.67 | 1.48 | 0.970 | 4.81 | 19.88 | 95.86 | 106 | 39 | 95 | 20 | 5 | < 20 | < 10 | 240 | 27 | < 1 |
| 107984 | < 5 | 0.48 | 2.56 | 0.20 | 4.63 | 0.771 | 16.94 | 29.62 | 0.02 | 0.14 | 0.023 | 1.26 | 42.07 | 98.24 | 50 | 1 | 15 | < 20 | < 1 | < 20 | < 10 | 50 | 7 | < 1 |
| 107985 | < 5 | 0.75 | 28.99 | 0.16 | 5.72 | 1.289 | 10.28 | 21.14 | 0.02 | 0.07 | 0.026 | 1.13 | 28.33 | 97.15 | 53 | 2 | 12 | 30 | < 1 | < 20 | < 10 | 1070 | 22 | < 1 |
| 107986 | < 5 | 0.43 | 8.60 | 3.13 | 6.81 | 0.752 | 15.57 | 24.80 | 0.39 | 1.22 | 0.395 | 0.11 | 36.84 | 98.63 | 103 | 28 | 93 | 100 | 4 | 30 | 20 | 60 | 12 | < 1 |
| 107987 | < 5 | 2.78 | 30.41 | 11.24 | 10.54 | 0.699 | 8.98 | 12.80 | 0.95 | 4.56 | 1.404 | 0.63 | 13.31 | 95.53 | 84 | 65 | 219 | 80 | 23 | 40 | 40 | 330 | 26 | < 1 |
| 107988 | < 5 | 1.00 | 21.32 | 4.86 | 10.17 | 0.913 | 12.12 | 17.02 | 0.17 | 2.97 | 0.721 | 0.54 | 24.96 | 95.74 | 71 | 16 | 148 | 220 | 23 | 90 | 30 | 360 | 14 | < 1 |
| 107989 | 24 | 12.0 | 2.13 | 0.19 | 8.17 | 1.468 | 10.92 | 38.71 | 0.02 | 0.09 | 0.014 | 0.83 | 27.86 | 90.41 | 48 | 42 | 23 | < 20 | 4 | < 20 | < 10 | 850 | 28 | < 1 |
| 107990 | < 5 | 0.63 | 12.15 | 4.04 | 8.49 | 0.693 | 13.05 | 22.61 | 0.58 | 1.58 | 0.618 | 1.26 | 31.77 | 96.83 | 29 | 16 | 70 | 30 | 9 | < 20 | 10 | 260 | 15 | < 1 |
| 107991 | < 5 | 1.67 | 25.48 | 8.53 | 9.63 | 0.756 | 12.75 | 13.64 | 0.85 | 4.51 | 0.661 | 2.27 | 17.16 | 96.25 | 89 | 47 | 149 | 110 | 21 | 30 | 10 | 610 | 27 | < 1 |
| 107992 | < 5 | 5.49 | 3.58 | 0.70 | 9.80 | 1.916 | 9.66 | 32.43 | 0.02 | 0.37 | 0.035 | 2.97 | 30.82 | 92.31 | 162 | 4 | 60 | 30 | < 1 | < 20 | < 10 | 770 | 61 | 4 |
| 107993 | < 5 | 6.32 | 1.16 | 0.28 | 7.64 | 1.697 | 12.16 | 33.70 | 0.02 | 0.18 | 0.016 | 1.09 | 35.40 | 93.32 | 101 | 3 | 31 | < 20 | < 1 | < 20 | < 10 | < 30 | 37 | < 1 |
| 107994 | < 5 | 3.93 | 17.86 | 6.03 | 10.81 | 1.196 | 13.27 | 18.45 | 0.29 | 3.90 | 0.623 | 1.29 | 21.33 | 95.07 | 80 | 30 | 115 | 80 | 12 | < 20 | 10 | 560 | 35 | < 1 |
| 107995 | < 5 | 1.93 | 42.68 | 18.20 | 9.89 | 0.087 | 10.23 | 0.86 | 2.05 | 7.48 | 0.820 | 0.35 | 4.00 | 96.66 | 93 | 48 | 155 | 100 | 11 | 20 | 30 | 390 | 32 | < 1 |
| 107996 | 5 | 5.62 | 8.87 | 2.88 | 11.72 | 1.771 | 11.37 | 27.16 | 0.05 | 1.86 | 0.326 | 1.79 | 26.09 | 93.89 | 109 | 3 | 67 | 80 | 6 | < 20 | 20 | 1060 | 18 | < 1 |
| 107997 | < 5 | 3.51 | 12.50 | 3.61 | 10.26 | 1.111 | 14.47 | 22.90 | 0.06 | 2.95 | 0.253 | 1.68 | 27.11 | 96.89 | 85 | 5 | 50 | 20 | 4 | < 20 | < 10 | 540 | 20 | < 1 |
| 107998 | 6 | 4.02 | 10.80 | 3.89 | 13.23 | 1.519 | 12.78 | 23.32 | 0.07 | 2.53 | 0.299 | 1.36 | 23.21 | 93.00 | 125 | 8 | 90 | 70 | 10 | < 20 | 40 | 430 | 25 | < 1 |
| 107999 | < 5 | 2.77 | 1.41 | 0.29 | 12.96 | 1.892 | 12.19 | 28.60 | 0.02 | 0.15 | 0.040 | 1.76 | 32.87 | 92.18 | 135 | 2 | 21 | < 20 | 10 | < 20 | 60 | 660 | 22 | < 1 |
| 108000 | 9 | 7.12 | 2.32 | 0.37 | 15.86 | 2.498 | 10.54 | 28.52 | 0.01 | 0.27 | 0.035 | 1.22 | 26.79 | 88.43 | 59 | 6 | 18 | < 20 | 16 | < 20 | 40 | 740 | 33 | 3 |
| 109901 | < 5 | 9.19 | 3.18 | 0.20 | 15.96 | 2.819 | 10.11 | 29.22 | 0.01 | 0.12 | 0.016 | 0.93 | 27.89 | 90.46 | 91 | 4 | 24 | < 20 | 3 | < 20 | 10 | 480 | 38 | 4 |
| 109902 | 21 | 6.48 | 4.79 | 0.68 | 19.49 | 1.385 | 10.28 | 27.98 | 0.02 | 0.52 | 0.060 | 1.57 | 23.50 | 90.26 | 74 | 3 | 41 | < 20 | 13 | 20 | 80 | 540 | 11 | 4 |
| 109903 | < 5 | 11.2 | 15.68 | 0.27 | 21.26 | 1.407 | 6.75 | 24.16 | 0.01 | 0.18 | 0.092 | 0.76 | 21.98 | 92.55 | 39 | 7 | 119 | 30 | 10 | < 20 | 20 | 760 | 18 | 7 |
| 109904 | < 5 | 8.16 | 3.64 | 0.47 | 21.40 | 1.953 | 9.10 | 27.41 | 0.01 | 0.32 | 0.150 | 1.80 | 21.49 | 87.74 | 43 | 4 | 67 | < 20 | 12 | < 20 | 30 | 1150 | 15 | 7 |
| 109905 | < 5 | 0.91 | 5.97 | 0.51 | 13.87 | 2.377 | 11.99 | 25.24 | 0.02 | 0.32 | 0.054 | 3.18 | 33.68 | 97.21 | 63 | 4 | 41 | < 20 | 4 | < 20 | < 10 | 350 | 7 | 3 |
| 109906 | < 5 | 0.55 | 2.49 | 0.40 | 17.61 | 2.677 | 11.52 | 25.23 | 0.02 | 0.27 | 0.109 | 1.12 | 34.42 | 95.87 | 120 | 1 | 40 | 20 | 8 | < 20 | 40 | 800 | 12 | 6 |
| 109907 | < 5 | 1.16 | 5.30 | 0.89 | 20.40 | 2.739 | 11.07 | 22.49 | 0.02 | 0.68 | 0.079 | 1.04 | 31.67 | 96.38 | 92 | 2 | 41 | 20 | 13 | < 20 | 50 | 510 | 15 | 6 |
| 109908 | < 5 | 2.94 | 2.81 | 0.77 | 14.25 | 2.126 | 11.12 | 29.29 | 0.02 | 0.53 | 0.426 | 1.37 | 33.45 | 96.16 | 84 | 5 | 99 | 30 | 12 | < 20 | 20 | 500 | 14 | 5 |
| 109909 | < 5 | 3.90 | 4.47 | 1.22 | 7.28 | 0.974 | 14.31 | 29.29 | 0.09 | 0.65 | 0.149 | 1.46 | 35.35 | 95.23 | 59 | 13 | 49 | 20 | 7 | < 20 | < 10 | 520 | 14 | 3 |
| 109910 | < 5 | 0.67 | 4.49 | 1.22 | 7.86 | 0.919 | 14.16 | 27.80 | 0.11 | 0.49 | 0.114 | 2.04 | 37.87 | 97.07 | 73 | 18 | 63 | 50 | 15 | 20 | 10 | 50 | 8 | 3 |
| 109911 | < 5 | 1.84 | 8.16 | 1.91 | 7.10 | 0.760 | 14.64 | 27.33 | 0.10 | 0.96 | 0.239 | 1.89 | 35.22 | 98.31 | 38 | 17 | 58 | 120 | 17 | 50 | 20 | 140 | 7 | 2 |
| 109912 | < 5 | 0.73 | 11.50 | 3.21 | 6.38 | 0.713 | 14.86 | 24.72 | 0.13 | 1.40 | 0.401 | 1.60 | 34.58 | 99.49 | 44 | 30 | 89 | 220 | 13 | 60 | 20 | 200 | 10 | 3 |
| 109913 | < 5 | 1.03 | 15.13 | 3.26 | 6.70 | 0.744 | 13.83 | 23.54 | 0.10 | 1.41 | 0.445 | 0.73 | 33.18 | 99.06 | 65 | 39 | 113 | 240 | 19 | 50 | 20 | 210 | 11 | 3 |
| 109914 | < 5 | 3.12 | 10.26 | 0.79 | 5.74 | 0.751 | 13.88 | 28.76 | 0.03 | 0.36 | 0.115 | 0.72 | 35.81 | 97.22 | 64 | 16 | 39 | 60 | 5 | 20 | 20 | 190 | 7 | 2 |
| 109915 | < 5 | 2.37 | 7.83 | 0.16 | 4.77 | 0.854 | 14.76 | 29.68 | 0.02 | 0.05 | 0.026 | 1.08 | 38.49 | 97.72 | 59 | 47 | 23 | < 20 | 2 | < 20 | < 10 | 170 | 6 | 2 |
| 109916 | 6 | 1.24 | 10.47 | 0.69 | 5.88 | 0.819 | 14.79 | 27.41 | 0.04 | 0.27 | 0.083 | 0.89 | 37.84 | 99.18 | 75 | 17 | 42 | 50 | 5 | 20 | < 10 | 110 | 7 | 2 |
| 109917 | < 5 | 0.55 | 14.24 | 0.59 | 11.47 | 1.960 | 11.88 | 22.98 | 0.06 | 0.35 | 0.053 | 0.70 | 30.99 | 95.28 | 91 | 2 | 29 | < 20 | 9 | < 20 | 40 | 160 | 14 | 5 |
| 109918 | < 5 | 0.96 | 7.23 | 0.76 | 12.54 | 2.337 | 12.37 | 24.31 | 0.16 | 0.28 | 0.115 | 0.71 | 35.96 | 96.75 | 84 | 4 | 34 | 20 | 6 | < 20 | < 10 | 330 | 17 | 5 |
| 109919 | < 5 | 2.41 | 7.79 | 1.17 | 12.63 | 2.507 | 11.20 | 27.34 | 0.27 | 0.34 | 0.173 | 0.67 | 34.27 | 98.37 | 61 | 7 | 35 | 40 | 8 | < 20 | 10 | 590 | 19 | 6 |
| 109920 | 5 | 1.04 | 5.79 | 0.26 | 8.83 | 1.799 | 13.58 | 27.31 | 0.06 | 0.07 | 0.047 | 0.79 | 38.48 | 97.00 | 76 | 4 | 21 | < 20 | 6 | < 20 | < 10 | 460 | 18 | 5 |
| 109921 | < 5 | 1.56 | 11.18 | 3.14 | 7.42 | 1.030 | 17.76 | 22.21 | 0.05 | 2.44 | 0.129 | 0.48 | 32.92 | 98.77 | 61 | 3 | 34 | < 20 | 6 | < 20 | < 10 | < 30 | 8 | 2 |
| 109922 | < 5 | 2.43 | 16.10 | 4.77 | 10.24 | 1.442 | 16.46 | 18.86 | 0.07 | 3.66 | 0.200 | 0.94 | 25.85 | 98.61 | 60 | 9 | 48 | 30 | 9 | < 20 | < 10 | 900 | 14 | 3 |
| 109923 | < 5 | 3.81 | 1.74 | 0.40 | 8.11 | 1.524 | 14.18 | 30.92 | 0.02 | 0.25 | 0.038 | 0.71 | 37.12 | 95.01 | 83 | 4 | 35 | < 20 | 6 | < 20 | 20 | 780 | 15 | 4 |
| 109924 | 12 | 1.20 | 6.95 | 0.97 | 9.65 | 1.001 | 14.23 | 25.63 | 0.03 | 0.73 | 0.135 | 0.99 | 35.60 | 95.93 | 46 | 3 | 65 | < 20 | 10 | < 20 | 20 | 580 | 8 | 3 |
| 109925 | 6 | 19.6 | 2.09 | 0.22 | 6.65 | 1.128 | 8.59 | 45.22 | 0.01 | 0.14 | 0.016 | 1.08 | 20.88 | 86.03 | 43 | 16 | 15 | < 20 | 7 | < 20 | 10 | 1120 | 15 | 4 |

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| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge |
|-----------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 109927 | < 5 | 3.83 | 15.79 | 0.14 | 10.07 | 1.842 | 10.23 | 26.59 | 0.02 | 0.06 | 0.031 | 0.83 | 30.04 | 95.64 | 64 | 4 | 19 | < 20 | 8 | < 20 | 30 | 760 | 14 | 5 |
| 109928 | 7 | 15.3 | 5.62 | 0.16 | 5.96 | 1.207 | 9.10 | 40.09 | 0.01 | 0.09 | 0.017 | 1.18 | 24.97 | 88.40 | 48 | 8 | 17 | < 20 | 4 | < 20 | < 10 | 310 | 18 | 5 |
| 109929 | 6 | 8.37 | 2.97 | 0.19 | 7.88 | 1.536 | 11.74 | 33.83 | 0.02 | 0.10 | 0.024 | 0.89 | 32.28 | 91.46 | 63 | 6 | 21 | < 20 | 5 | < 20 | < 10 | 380 | 19 | 5 |
| 109930 | 10 | 8.92 | 13.01 | 0.82 | 7.27 | 0.892 | 10.70 | 31.60 | 0.06 | 0.47 | 0.147 | 0.94 | 27.91 | 93.81 | 39 | 6 | 37 | 50 | 6 | < 20 | 10 | 510 | 15 | 3 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|-----------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 107976 | 13 | 5 | 1292 | 150 | 41 | 35 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 155 | 2.3 | 3360 | 5600 | 475 | 1320 | 167 | 41.4 | 108 | 8.8 | 35.0 | 5.3 | 14.0 |
| 107977 | 14 | 2 | 1364 | 193 | 25 | 12 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 116 | < 0.4 | 5570 | 8430 | 668 | 1790 | 235 | 63.0 | 171 | 14.1 | 53.4 | 7.4 | 18.0 |
| 107978 | 11 | 32 | 1722 | 323 | 98 | 21 | 0.7 | < 0.2 | 2 | < 0.5 | 1.0 | 304 | < 0.4 | 874 | 2000 | 242 | 987 | 211 | 60.6 | 159 | 20.3 | 90.8 | 13.0 | 28.0 |
| 107979 | 20 | 21 | 1638 | 304 | 56 | 108 | 0.7 | < 0.2 | 3 | < 0.5 | 0.7 | 234 | 2.4 | 600 | 1390 | 170 | 700 | 159 | 47.4 | 126 | 17.4 | 80.7 | 12.1 | 26.6 |
| 87696 | 9 | 5 | 1453 | 147 | 45 | 7 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 136 | < 0.4 | 4910 | 5910 | 454 | 1280 | 167 | 40.1 | 101 | 8.5 | 32.7 | 4.8 | 12.1 |
| 107980 | < 5 | < 2 | 44 | 9 | 8 | 6 | 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 16 | 10.2 | 222 | 267 | 20.3 | 57.0 | 7.9 | 2.11 | 5.2 | 0.5 | 2.1 | 0.3 | 0.7 |
| 107981 | < 5 | 49 | 544 | 119 | 259 | 32 | 1.7 | < 0.2 | 12 | < 0.5 | 1.6 | 852 | < 0.4 | 529 | 1060 | 108 | 355 | 72.5 | 19.6 | 52.4 | 6.8 | 30.6 | 4.7 | 11.9 |
| 107982 | 7 | 7 | 1558 | 270 | 81 | 6 | 0.5 | < 0.2 | 2 | < 0.5 | < 0.5 | 200 | < 0.4 | 3830 | 4830 | 395 | 1160 | 159 | 39.6 | 108 | 11.1 | 50.7 | 8.1 | 22.7 |
| 107983 | < 5 | 25 | 1401 | 244 | 165 | 12 | 1.1 | < 0.2 | 14 | 0.6 | 0.7 | 740 | 0.9 | 2610 | 3190 | 259 | 772 | 116 | 29.9 | 81.7 | 8.9 | 44.6 | 7.6 | 22.0 |
| 107984 | < 5 | < 2 | 1866 | 205 | 20 | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 118 | < 0.4 | 314 | 733 | 95.9 | 401 | 83.3 | 23.4 | 61.2 | 8.9 | 45.7 | 7.6 | 19.5 |
| 107985 | 5 | < 2 | 1340 | 134 | 28 | 6 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 101 | 0.7 | 2420 | 3190 | 282 | 941 | 136 | 31.4 | 76.5 | 7.1 | 30.1 | 4.3 | 9.6 |
| 107986 | 14 | 25 | 1308 | 274 | 96 | 8 | 0.6 | < 0.2 | 6 | < 0.5 | 0.5 | 649 | < 0.4 | 381 | 823 | 101 | 415 | 84.6 | 25.6 | 70.3 | 11.2 | 60.0 | 9.9 | 23.6 |
| 107987 | < 5 | 75 | 642 | 128 | 157 | 44 | 1.1 | < 0.2 | 18 | < 0.5 | 2.0 | 1801 | < 0.4 | 1160 | 1730 | 155 | 485 | 88.6 | 21.9 | 61.2 | 6.7 | 30.7 | 4.7 | 12.0 |
| 107988 | 12 | 55 | 894 | 193 | 91 | 62 | 1.3 | < 0.2 | 13 | < 0.5 | 2.0 | 727 | 5.0 | 291 | 808 | 117 | 493 | 102 | 30.8 | 84.7 | 11.9 | 52.1 | 7.4 | 14.6 |
| 107989 | 39 | < 2 | 1776 | 304 | 28 | 48 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 253 | 0.8 | 2220 | 3920 | 372 | 1170 | 162 | 41.3 | 114 | 12.7 | 58.4 | 8.6 | 19.4 |
| 107990 | 12 | 29 | 952 | 209 | 83 | 10 | 0.6 | < 0.2 | 4 | < 0.5 | 0.9 | 528 | 0.6 | 494 | 1170 | 148 | 610 | 123 | 34.7 | 88.5 | 11.7 | 54.4 | 8.2 | 18.1 |
| 107991 | 6 | 101 | 838 | 254 | 217 | 51 | 1.8 | 0.3 | 18 | < 0.5 | 3.5 | 1107 | 2.5 | 1050 | 2180 | 243 | 862 | 163 | 46.5 | 130 | 16.4 | 71.5 | 10.1 | 21.0 |
| 107992 | 17 | 8 | 1229 | 229 | 20 | 90 | < 0.5 | 0.2 | 2 | 0.6 | < 0.5 | 140 | 3.9 | 7180 | 9730 | 755 | 2040 | 283 | 72.4 | 187 | 15.3 | 57.4 | 7.8 | 18.9 |
| 107993 | 7 | 4 | 1219 | 163 | 20 | 19 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | 103 | < 0.4 | 5120 | 5670 | 405 | 1040 | 146 | 40.0 | 107 | 8.9 | 36.2 | 5.0 | 10.8 |
| 107994 | 9 | 90 | 754 | 219 | 69 | 39 | 0.6 | 0.2 | 21 | < 0.5 | 3.6 | 1101 | < 0.4 | 3020 | 4160 | 361 | 1120 | 177 | 46.9 | 125 | 13.1 | 57.3 | 8.0 | 17.2 |
| 107995 | < 5 | 145 | 416 | 90 | 228 | 68 | 1.7 | 0.3 | 43 | < 0.5 | 5.0 | 3285 | 0.9 | 178 | 455 | 66.9 | 295 | 66.8 | 16.9 | 43.4 | 5.1 | 22.1 | 3.2 | 7.4 |
| 107996 | 5 | 44 | 1355 | 252 | 69 | 8 | 0.6 | 0.4 | 9 | < 0.5 | 1.7 | 688 | 3.2 | 826 | 1530 | 167 | 685 | 202 | 52.2 | 125 | 14.2 | 60.9 | 8.9 | 19.1 |
| 107997 | < 5 | 72 | 1380 | 221 | 38 | < 2 | < 0.5 | < 0.2 | 9 | < 0.5 | 2.7 | 622 | 3.8 | 1110 | 1870 | 191 | 707 | 157 | 44.8 | 104 | 11.9 | 53.5 | 8.2 | 18.2 |
| 107998 | 6 | 58 | 1266 | 208 | 115 | 5 | 0.9 | 0.3 | 11 | < 0.5 | 2.2 | 964 | 1.9 | 1290 | 2420 | 260 | 963 | 224 | 58.2 | 137 | 13.0 | 51.0 | 6.9 | 14.9 |
| 107999 | 9 | 3 | 1558 | 244 | 36 | 3 | < 0.5 | 0.3 | 1 | < 0.5 | < 0.5 | 124 | 1.3 | 1670 | 2970 | 313 | 1130 | 257 | 65.4 | 147 | 14.4 | 58.3 | 8.4 | 17.5 |
| 108000 | 14 | 7 | 1148 | 247 | 32 | 4 | < 0.5 | 0.3 | 1 | < 0.5 | < 0.5 | 210 | 2.0 | 1380 | 4140 | 499 | 1810 | 310 | 71.0 | 161 | 14.8 | 59.4 | 8.0 | 16.7 |
| 109901 | 16 | 3 | 984 | 233 | 36 | < 2 | < 0.5 | 0.3 | 2 | < 0.5 | < 0.5 | 184 | 1.8 | 1740 | 5080 | 582 | 2040 | 327 | 72.1 | 153 | 12.6 | 51.3 | 7.0 | 15.4 |
| 109902 | 16 | 13 | 1055 | 237 | 79 | 3 | 2.3 | 0.3 | 3 | < 0.5 | < 0.5 | 213 | 1.8 | 852 | 2550 | 357 | 1420 | 284 | 62.0 | 137 | 13.7 | 55.6 | 7.5 | 16.4 |
| 109903 | 24 | 5 | 754 | 252 | 68 | 3 | 2.0 | 0.5 | 12 | < 0.5 | < 0.5 | 199 | 3.7 | 2070 | 5160 | 597 | 2370 | 505 | 101 | 208 | 16.6 | 61.6 | 7.9 | 16.2 |
| 109904 | 26 | 8 | 1072 | 375 | 73 | 13 | 1.9 | 0.6 | 8 | < 0.5 | < 0.5 | 239 | 1.5 | 1150 | 3470 | 487 | 2330 | 613 | 128 | 267 | 24.3 | 90.3 | 11.6 | 23.6 |
| 109905 | 12 | 8 | 1529 | 373 | 46 | < 2 | 1.4 | 0.4 | 4 | < 0.5 | < 0.5 | 193 | 0.7 | 361 | 921 | 160 | 935 | 286 | 70.0 | 166 | 18.2 | 82.8 | 12.6 | 28.3 |
| 109906 | 18 | 7 | 1358 | 155 | 27 | 2 | 0.8 | 0.4 | 3 | < 0.5 | < 0.5 | 155 | 1.6 | 1040 | 2240 | 320 | 1570 | 378 | 74.7 | 147 | 11.2 | 37.1 | 4.4 | 8.9 |
| 109907 | 22 | 16 | 1204 | 165 | 64 | < 2 | 1.5 | 0.3 | 3 | < 0.5 | 0.7 | 255 | 1.4 | 1290 | 2900 | 419 | 1910 | 371 | 75.2 | 147 | 11.5 | 40.0 | 4.7 | 9.2 |
| 109908 | 20 | 13 | 1358 | 258 | 74 | 10 | 2.2 | < 0.2 | 8 | < 0.5 | 0.5 | 311 | 1.9 | 1700 | 3520 | 389 | 1430 | 256 | 58.8 | 133 | 14.5 | 63.6 | 9.2 | 20.0 |
| 109909 | 13 | 16 | 1696 | 222 | 127 | 3 | 2.7 | < 0.2 | 3 | < 0.5 | 0.5 | 416 | 1.4 | 2230 | 3280 | 331 | 1070 | 158 | 41.6 | 118 | 12.9 | 57.7 | 8.2 | 17.2 |
| 109910 | 13 | 11 | 1273 | 216 | 72 | 4 | 1.5 | < 0.2 | 1 | < 0.5 | < 0.5 | 314 | < 0.4 | 742 | 1510 | 191 | 760 | 130 | 34.9 | 90.3 | 10.9 | 54.7 | 8.4 | 18.9 |
| 109911 | 10 | 21 | 1654 | 137 | 103 | 5 | 2.4 | < 0.2 | 3 | < 0.5 | 0.6 | 377 | < 0.4 | 531 | 972 | 113 | 428 | 72.2 | 19.7 | 51.1 | 6.3 | 32.3 | 4.8 | 10.7 |
| 109912 | 8 | 30 | 1084 | 166 | 91 | < 2 | 2.0 | < 0.2 | 3 | < 0.5 | 0.9 | 605 | < 0.4 | 686 | 1400 | 171 | 651 | 111 | 28.7 | 71.2 | 8.9 | 41.8 | 6.3 | 14.6 |
| 109913 | 17 | 29 | 1326 | 184 | 95 | 6 | 2.1 | < 0.2 | 5 | < 0.5 | 0.8 | 707 | 0.4 | 1100 | 1830 | 203 | 718 | 111 | 28.2 | 74.9 | 9.1 | 43.2 | 6.4 | 15.0 |
| 109914 | 8 | 9 | 1619 | 172 | 52 | 2 | 1.1 | < 0.2 | 3 | < 0.5 | < 0.5 | 322 | 0.7 | 1060 | 1720 | 182 | 630 | 99.1 | 26.2 | 69.5 | 8.2 | 38.6 | 5.9 | 14.6 |
| 109915 | 7 | < 2 | 1590 | 167 | 38 | < 2 | 0.9 | < 0.2 | 1 | < 0.5 | < 0.5 | 300 | 0.4 | 925 | 1510 | 160 | 553 | 89.9 | 23.0 | 62.5 | 7.8 | 37.4 | 5.8 | 14.3 |
| 109916 | 13 | 6 | 1256 | 174 | 48 | 2 | 1.3 | < 0.2 | 2 | < 0.5 | < 0.5 | 273 | < 0.4 | 977 | 1660 | 179 | 617 | 103 | 26.3 | 70.1 | 8.5 | 40.6 | 6.2 | 14.2 |
| 109917 | 16 | 8 | 1256 | 161 | 31 | 4 | 0.8 | < 0.2 | < 1 | < 0.5 | < 0.5 | 245 | 1.0 | 1360 | 3940 | 433 | 1370 | 169 | 35.5 | 79.6 | 7.6 | 32.6 | 5.0 | 12.3 |
| 109918 | 17 | 6 | 1294 | 181 | 33 | 4 | 1.0 | 0.2 | 2 | 2.6 | < 0.5 | 268 | < 0.4 | 1680 | 4500 | 488 | 1630 | 262 | 54.7 | 119 | 9.4 | 37.0 | 5.3 | 13.3 |
| 109919 | 25 | 8 | 1426 | 265 | 59 | 7 | 1.5 | 0.2 | 2 | < 0.5 | < 0.5 | 381 | 3.0 | 1830 | 4870 | 561 | 1990 | 304 | 63.8 | 147 | 13.2 | 54.0 | 8.1 | 18.1 |
| 109920 | 23 | < 2 | 1631 | 287 | 37 | 14 | 1.1 | < 0.2 | < 1 | < 0.5 | < 0.5 | 194 | 1.3 | 1920 | 5040 | 553 | 1830 | 267 | 59.7 | 145 | 14.3 | 60.3 | 9.0 | 19.9 |
| 109921 | 6 | 61 | 1734 | 165 | 58 | 9 | 1.2 | < 0.2 | 2 | < 0.5 | 1.9 | 522 | < 0.4 | 340 | 795 | 104 | 414 | 84.1 | 22.3 | 59.9 | 7.5 | 36.6 | 5.7 | 13.4 |
| 109922 | 10 | 96 | 1309 | 257 | 71 | 5 | 1.5 | 0.3 | 5 | < 0.5 | 3.2 | 802 | 1.2 | 468 | 1450 | 199 | 755 | 147 | 38.2 | 97.2 | 12.0 | 57.1 | 8.6 | 20.1 |
| 109923 | 19 | 7 | 1545 | 231 | 29 | 3 | 1.1 | 0.2 | 6 | < 0.5 | < 0.5 | 255 | 2.2 | 2930 | 4530 | 431 | 1380 | 213 | 51.7 | 127 | 10.8 | 51.5 | 7.6 | 18.0 |
| 109924 | 10 | 18 | 1579 | 219 | 56 | 7 | 1.6 | < 0.2 | 3 | < 0.5 | 0.7 | 346 | 2.1 | 898 | 1640 | 199 | 785 | 147 | 37.0 | 95.0 | 10.8 | 52.2 | 7.8 | 17.8 |
| 109925 | 19 | 3 | 1694 | 160 | 38 | 80 | 0.8 | 0.2 | < 1 | < 0.5 | < 0.5 | 370 | 1.6 | 1460 | 4210 | 497 | 1680 | 213 | 42.7 | 93.7 | 8.0 | 30.7 | 4.1 | 9.3 |
| 109926 | 28 | < 2 | 1766 | 191 | 32 | 21 | 1.0 | 0.3 | < 1 | < 0.5 | < 0.5 | 228 | 4.0 | 2460 | 6960 | 758 | 2380 | 261 | 53.6 | 122 | 9.5 | 39.1 | 5.5 | 12.1 |

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| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|------------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| 109927 | 21 | < 2 | 1514 | 132 | 28 | 31 | 0.9 | < 0.2 | 1 | < 0.5 | < 0.5 | 146 | 5.1 | 1450 | 3780 | 444 | 1610 | 209 | 41.7 | 87.5 | 7.8 | 28.0 | 3.7 | 7.5 |
| 109928 | 18 | 2 | 1792 | 193 | 31 | 3 | 1.0 | < 0.2 | < 1 | < 0.5 | < 0.5 | 263 | 1.3 | 2020 | 5370 | 569 | 1740 | 196 | 43.5 | 104 | 9.2 | 37.1 | 5.3 | 12.2 |
| 109929 | 20 | 3 | 1899 | 224 | 39 | 3 | 1.2 | < 0.2 | 1 | < 0.5 | < 0.5 | 262 | 0.9 | 2200 | 5760 | 606 | 1850 | 203 | 44.5 | 112 | 10.1 | 44.3 | 6.9 | 16.7 |
| 109930 | 15 | 12 | 2030 | 295 | 56 | 5 | 1.3 | < 0.2 | 3 | < 0.5 | < 0.5 | 463 | 1.6 | 2530 | 4740 | 433 | 1250 | 162 | 40.3 | 116 | 13.0 | 57.1 | 9.4 | 24.3 |

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Ti | Pb | Th | U | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | none |
| 107976 | 2.02 | 13.5 | 2.05 | 1.1 | < 1 | 0.2 | 140 | 633 | 0.3 | 5170 |
| 107977 | 2.31 | 14.3 | 2.20 | 1.0 | < 1 | 0.1 | 26 | 808 | 0.1 | 3620 |
| 107978 | 3.24 | 17.7 | 2.22 | 3.2 | 2 | 0.5 | 31 | 288 | 3.0 | 2610 |
| 107979 | 3.01 | 15.9 | 1.99 | 2.0 | < 1 | 0.6 | 240 | 248 | 5.6 | 4110 |
| 87696 | 1.61 | 10.1 | 1.48 | 1.0 | < 1 | 0.1 | 27 | 324 | 1.3 | 4010 |
| 107980 | 0.09 | 0.4 | 0.06 | < 0.2 | < 1 | < 0.1 | 765 | 22.2 | < 0.1 | 946 |
| 107981 | 1.49 | 8.8 | 1.25 | 5.2 | < 1 | 1.1 | 28 | 235 | 1.5 | 2880 |
| 107982 | 3.26 | 20.4 | 3.04 | 1.7 | < 1 | 0.2 | 23 | 333 | 0.3 | 2160 |
| 107983 | 3.15 | 18.6 | 2.85 | 3.2 | 8 | 0.7 | 67 | 342 | 0.5 | 2420 |
| 107984 | 2.39 | 12.7 | 1.57 | 0.9 | < 1 | < 0.1 | 15 | 142 | 0.4 | 3890 |
| 107985 | 1.16 | 6.6 | 0.88 | 0.7 | < 1 | < 0.1 | 62 | 198 | 0.1 | 2400 |
| 107986 | 2.88 | 15.7 | 2.02 | 2.4 | 2 | 1.0 | 15 | 48.6 | 0.5 | 2100 |
| 107987 | 1.63 | 9.9 | 1.36 | 3.5 | 10 | 1.5 | 29 | 292 | 0.7 | 2050 |
| 107988 | 1.54 | 8.0 | 0.99 | 2.7 | 3 | 1.2 | 1050 | 190 | 0.2 | 2110 |
| 107989 | 2.15 | 11.4 | 1.50 | 1.1 | < 1 | 0.3 | 289 | 458 | < 0.1 | 3840 |
| 107990 | 2.14 | 11.5 | 1.47 | 2.3 | 7 | 0.8 | 105 | 253 | 0.4 | 2590 |
| 107991 | 2.48 | 14.0 | 1.85 | 5.2 | 4 | 2.7 | 312 | 369 | 1.7 | 1390 |
| 107992 | 2.34 | 13.9 | 2.10 | 1.1 | < 1 | 0.4 | 197 | 888 | 0.1 | 2090 |
| 107993 | 1.32 | 7.9 | 1.19 | 0.8 | < 1 | < 0.1 | < 5 | 340 | < 0.1 | 2920 |
| 107994 | 2.02 | 11.2 | 1.46 | 2.6 | 3 | 1.5 | 98 | 495 | 0.2 | 3090 |
| 107995 | 0.89 | 5.0 | 0.68 | 4.9 | 3 | 3.1 | 177 | 178 | 3.1 | 1800 |
| 107996 | 2.30 | 12.9 | 1.65 | 2.4 | 3 | 1.0 | 220 | 663 | 2.2 | 1420 |
| 107997 | 2.05 | 10.5 | 1.28 | 1.6 | 2 | 1.4 | 257 | 363 | 9.7 | 2630 |
| 107998 | 1.70 | 10.4 | 1.41 | 3.2 | 1 | 1.1 | 124 | 513 | 1.4 | 1650 |
| 107999 | 1.99 | 11.1 | 1.45 | 1.2 | < 1 | 0.1 | 77 | 734 | 0.3 | 1890 |
| 108000 | 1.89 | 10.8 | 1.34 | 1.3 | < 1 | 0.2 | 253 | 1020 | 2.3 | 2440 |
| 109901 | 1.77 | 10.1 | 1.27 | 1.3 | < 1 | 0.1 | 142 | 1260 | 1.0 | 3850 |
| 109902 | 1.88 | 11.5 | 1.44 | 2.2 | 2 | 0.3 | 179 | 928 | 7.9 | 1630 |
| 109903 | 1.80 | 9.7 | 1.26 | 2.0 | 4 | 0.2 | 335 | 2750 | 0.3 | 2610 |
| 109904 | 2.58 | 14.0 | 1.66 | 2.5 | 4 | 0.2 | 271 | 2860 | 4.7 | 3800 |
| 109905 | 3.40 | 17.1 | 1.93 | 1.5 | 2 | 0.2 | 292 | 1240 | 0.3 | 3840 |
| 109906 | 1.10 | 6.7 | 0.85 | 0.9 | 1 | 0.2 | 254 | 1160 | 0.3 | 703 |
| 109907 | 1.16 | 6.8 | 0.91 | 1.5 | 2 | 0.4 | 235 | 1340 | 0.4 | 1830 |
| 109908 | 2.25 | 10.6 | 1.32 | 2.2 | 3 | 0.4 | 168 | 631 | 1.7 | 1800 |
| 109909 | 1.90 | 9.4 | 1.18 | 2.6 | 2 | 0.4 | 115 | 143 | 0.5 | 1940 |
| 109910 | 2.19 | 11.6 | 1.53 | 1.7 | 2 | 0.3 | 15 | 112 | 0.5 | 1650 |
| 109911 | 1.30 | 7.4 | 0.97 | 2.1 | 2 | 0.6 | 42 | 56.2 | 0.5 | 3670 |
| 109912 | 1.61 | 8.6 | 1.08 | 2.0 | 3 | 0.8 | 39 | 74.4 | 0.3 | 2350 |
| 109913 | 1.74 | 9.9 | 1.25 | 2.0 | 3 | 0.7 | 74 | 142 | 0.3 | 4720 |
| 109914 | 1.62 | 9.4 | 1.24 | 1.1 | < 1 | 0.3 | 100 | 102 | 0.1 | 2280 |
| 109915 | 1.78 | 9.9 | 1.34 | 0.8 | < 1 | < 0.1 | 49 | 88.4 | 0.1 | 2780 |
| 109916 | 1.70 | 9.5 | 1.29 | 1.0 | < 1 | < 0.1 | 46 | 117 | 0.1 | 1490 |
| 109917 | 1.48 | 8.1 | 1.02 | 0.8 | < 1 | 0.1 | 71 | 342 | 0.6 | 1400 |
| 109918 | 1.66 | 8.6 | 1.05 | 0.9 | 1 | 0.1 | 72 | 507 | 0.5 | 1650 |
| 109919 | 2.12 | 11.1 | 1.34 | 1.6 | 1 | 0.2 | 329 | 479 | 0.7 | 1700 |
| 109920 | 2.31 | 12.2 | 1.48 | 1.2 | 1 | < 0.1 | 198 | 423 | 0.6 | 1570 |
| 109921 | 1.49 | 8.2 | 1.03 | 1.5 | 2 | 0.3 | 8 | 128 | 3.6 | 1770 |
| 109922 | 2.28 | 11.6 | 1.45 | 2.0 | 2 | 1.4 | 179 | 356 | 1.5 | 575 |
| 109923 | 2.02 | 10.6 | 1.32 | 1.0 | 1 | 0.3 | 261 | 457 | 0.4 | 2860 |
| 109924 | 2.02 | 10.5 | 1.25 | 1.5 | 3 | 0.3 | 363 | 263 | 6.5 | 1760 |
| 109925 | 1.15 | 6.2 | 0.82 | 1.1 | 2 | 0.2 | 381 | 533 | 0.3 | 2390 |

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Ti | Pb | Th | U | Received Weight |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | g |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | none |
| 109926 | 1.34 | 6.8 | 0.88 | 0.7 | 1 | 0.1 | 469 | 730 | 0.2 | 1910 |
| 109927 | 0.88 | 4.9 | 0.61 | 0.9 | 1 | < 0.1 | 384 | 692 | 0.2 | 2360 |
| 109928 | 1.43 | 7.9 | 1.01 | 0.8 | 2 | < 0.1 | 202 | 519 | 0.1 | 992 |
| 109929 | 2.10 | 11.0 | 1.47 | 0.9 | 2 | < 0.1 | 133 | 422 | 0.1 | 1400 |
| 109930 | 3.05 | 16.3 | 2.06 | 1.3 | 2 | 0.2 | 138 | 430 | 0.2 | 1210 |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|---------|--------|------|------|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | 11.43 | 1.93 | 0.75 | 0.013 | 0.34 | 43.27 | 0.89 | 0.55 | 0.119 | 30.29 | | | | | 1684 | | | | | | | | | |
| NIST 694 Cert | | | 11.2 | 1.80 | 0.790 | 0.0116 | 0.330 | 43.6 | 0.860 | 0.510 | 0.110 | 30.2 | | | | | 1740 | | | | | | | | | |
| DNC-1 Meas | | | | | | | | | | | | | | | | | | 270 | 58 | 250 | 100 | 60 | | | | |
| DNC-1 Cert | | | | | | | | | | | | | | | | | | 270.000 | 57.0 | 247.000 | 100.0 | 70.0 | | | | |
| GBW 07113 Meas | | 0.13 | 72.72 | 13.09 | 3.22 | 0.139 | 0.14 | 0.58 | 2.50 | 5.45 | 0.287 | 0.05 | | | 5 | 4 | < 5 | | | | | | | | | |
| GBW 07113 Cert | | 0.130 | 72.8 | 13.0 | 3.21 | 0.140 | 0.160 | 0.590 | 2.57 | 5.43 | 0.300 | 0.0500 | | | 5.00 | 4.00 | 5.00 | | | | | | | | | |
| SCO-1 Meas | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | 0.08 | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | | | | | | | | | | | | | | | | | | 80 | 30 | 50 | 30 | 150 | | | | |
| LKSD-3 Cert | | | | | | | | | | | | | | | | | | 87.0 | 30.0 | 47.0 | 35.0 | 152 | | | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | 0.0500 | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | 0.00950 | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | | 0.02 | 52.25 | 15.54 | 10.89 | 0.164 | 6.24 | 11.02 | 2.22 | 0.62 | 1.084 | 0.13 | | | 36 | < 1 | 276 | 90 | 47 | 70 | 110 | 80 | 18 | < 1 | | |
| W-2a Cert | | 0.0205 | 52.4 | 15.4 | 10.7 | 0.163 | 6.37 | 10.9 | 2.14 | 0.626 | 1.06 | 0.130 | | | 36.0 | 1.30 | 262 | 92.0 | 43.0 | 70.0 | 110 | 80.0 | 17.0 | 1.00 | | |
| SY-4 Meas | | | 49.57 | 20.69 | 6.19 | 0.106 | 0.50 | 8.04 | 6.95 | 1.66 | 0.290 | 0.13 | | | 1 | 3 | 7 | | | | | | | | | |
| SY-4 Cert | | | 49.9 | 20.69 | 6.21 | 0.108 | 0.54 | 8.05 | 7.10 | 1.66 | 0.287 | 0.131 | | | 1.1 | 2.6 | 8.0 | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | | | | | | | | | 54.0 | | | | |
| BIR-1a Meas | | | 48.02 | 15.77 | 11.49 | 0.171 | 9.51 | 13.54 | 1.83 | 0.02 | 0.977 | 0.03 | | | 44 | < 1 | 338 | 370 | 54 | 170 | 130 | 60 | 15 | | | |
| BIR-1a Cert | | | 47.96 | 15.50 | 11.30 | 0.175 | 9.700 | 13.30 | 1.82 | 0.030 | 0.96 | 0.021 | | | 44 | 0.58 | 310 | 370 | 52 | 170 | 125 | 70 | 16 | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86312 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | 1050 | 99 | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | 1050 | 99 | | |
| NCS DC86302 Meas | | | 75.08 | 15.14 | 0.59 | 0.037 | 0.06 | 0.63 | 4.51 | 3.91 | 0.012 | 0.01 | | | | | 1382 | | | | | | | | | |
| NCS DC86302 Cert | | | 73.99 | 14.86 | 0.593 | 0.036 | 0.069 | 0.584 | 4.67 | 3.89 | 0.016 | 0.013 | | | | | 1315 | | | | | | | | | |
| NCS DC70014 Meas | | | | | | | | | | | | | | | | | | | | 24 | 70 | 2610 | 7400 | 25 | | |
| NCS DC70014 Cert | | | | | | | | | | | | | | | | | | | | 26.2 | 70.9 | 2600.00 | 7400.00 | 25.2 | | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | | | | | | | | | | | | 30 | | | 950 | | 16 | 11 | |
| NCS DC70009 (GBW07241) Cert | | | | | | | | | | | | | | | | | | | 30 | | | 960.000 | | 16.5 | 11.2 | |
| SGR-1b Meas | | 0.20 | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | 0.1960 | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | | | | 170 | | | |
| OREAS 100a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | | | | 169 | | | |
| OREAS 101a (Fusion) Meas | | | | | | | | | | | | | | | | | | | | 49 | | | 440 | | | |
| OREAS 101a (Fusion) Cert | | | | | | | | | | | | | | | | | | | | 48.8 | | | 434 | | | |
| JR-1 Meas | | | | | | | | | | | | | | | | | | | | | | | < 20 | < 30 | 16 | 2 |
| JR-1 Cert | | | | | | | | | | | | | | | | | | | | | | | 1.67 | 30.6 | 16.1 | 1.88 |
| NCS DC86318 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86318 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Meas | | 1030 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | 972.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | 234 | | | | | | | | | | | | | | | | | | | | | | | | |

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| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--|
| Analyte Symbol | Au | F | SiO2 | Al2O3 | Fe2O3(T) | MnO | MgO | CaO | Na2O | K2O | TiO2 | P2O5 | LOI | Total | Sc | Be | V | Cr | Co | Ni | Cu | Zn | Ga | Ge | |
| Unit Symbol | ppb | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.001 | 0.01 | | 0.01 | 1 | 1 | 5 | 20 | 1 | 20 | 10 | 30 | 1 | 1 | |
| Analysis Method | FA-AA | FUS-ISE | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | 243 | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | 229.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 107984 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 107984 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 107990 Orig | | 0.62 | 12.11 | 4.02 | 8.44 | 0.692 | 12.97 | 22.55 | 0.57 | 1.57 | 0.621 | 1.27 | 31.77 | 96.57 | 28 | 14 | 70 | 30 | 9 | < 20 | 10 | 250 | 15 | < 1 | |
| 107990 Dup | | 0.64 | 12.19 | 4.05 | 8.53 | 0.693 | 13.13 | 22.68 | 0.58 | 1.59 | 0.616 | 1.26 | 31.77 | 97.08 | 29 | 17 | 71 | 30 | 9 | < 20 | 20 | 270 | 16 | < 1 | |
| 107994 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 107994 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109901 Orig | | 9.22 | | | | | | | | | | | | | | | | < 20 | 3 | < 20 | 10 | 450 | 37 | 4 | |
| 109901 Dup | | 9.16 | | | | | | | | | | | | | | | | < 20 | 3 | < 20 | 10 | 500 | 38 | 4 | |
| 109901 Orig | | 9.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 109901 Dup | | 9.30 | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Split | | 8.30 | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Orig | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109916 Orig | | 1.24 | 10.46 | 0.68 | 5.89 | 0.819 | 14.80 | 27.51 | 0.04 | 0.26 | 0.085 | 0.88 | 37.84 | 99.27 | 75 | 17 | 42 | 50 | 5 | 20 | < 10 | 110 | 7 | 2 | |
| 109916 Dup | | 1.24 | 10.49 | 0.69 | 5.87 | 0.818 | 14.78 | 27.31 | 0.04 | 0.27 | 0.082 | 0.89 | 37.84 | 99.09 | 75 | 17 | 43 | 60 | 6 | 30 | < 10 | 100 | 7 | 2 | |
| 109919 Orig | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109919 Dup | < 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109924 Split | | | 6.69 | 1.01 | 9.05 | 0.931 | 13.78 | 26.01 | 0.03 | 0.78 | 0.138 | 1.05 | 35.74 | 95.22 | 40 | 3 | 58 | | | | | | | | |
| 109928 Orig | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109928 Dup | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 109930 Split | | | | | | | | | | | | | | | | | | 50 | 3 | < 20 | < 10 | 400 | 25 | 4 | |
| 109930 Orig | | 8.86 | 12.95 | 0.81 | 7.32 | 0.899 | 10.76 | 31.91 | 0.06 | 0.47 | 0.146 | 0.92 | 27.91 | 94.15 | 39 | 6 | 36 | 50 | 6 | < 20 | 10 | 490 | 15 | 3 | |
| 109930 Dup | | 8.98 | 13.07 | 0.82 | 7.22 | 0.886 | 10.65 | 31.28 | 0.06 | 0.48 | 0.148 | 0.95 | 27.91 | 93.47 | 39 | 6 | 37 | 50 | 6 | < 20 | 10 | 540 | 15 | 3 | |
| Method Blank Method Blank | | | | | | | | | | | | | | | | | | < 20 | < 1 | < 20 | < 10 | < 30 | < 1 | < 1 | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method Blank | | < 5 | | | | | | | | | | | | | | | | | | | | | | | |

Activation Laboratories Ltd. Report: A11-12462-8REE,F,1A2

| Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|--------|--------|--------|----------|---------|--------|---------|--------|----------|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|------|
| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | |
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | |
| DH-1a Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DH-1a Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DNC-1 Meas | | | | | | | | | | 1.2 | | | | 3.7 | | | 5.1 | | 0.59 | | | | | | |
| DNC-1 Cert | | | | | | | | | | 0.96 | | | | 3.6 | | | 5.20 | | 0.59 | | | | | | |
| GBW 07113 Meas | | | 41 | 42 | 406 | | | | | | | 506 | | | | | | | | | | | | | |
| GBW 07113 Cert | | | 43.0 | 43.0 | 403 | | | | | | | 506 | | | | | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| LKSD-3 Meas | 23 | 74 | | | | < 2 | 2.9 | | 2 | 1.3 | 2.3 | | | | 87.3 | | 42.6 | 7.8 | 1.40 | | | | 4.7 | | |
| LKSD-3 Cert | 27.0 | 78.0 | | | | 2.00 | 2.70 | | 3.00 | 1.30 | 2.30 | | | | 90.0 | | 44.0 | 8.00 | 1.50 | | | | 4.90 | | |
| OKA-2 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKA-2 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| UB-N Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| W-2a Meas | < 5 | 20 | 196 | 18 | 89 | < 2 | 0.6 | | | 1.1 | 0.9 | 173 | < 0.4 | 10.4 | 22.8 | | 12.9 | 3.3 | 1.07 | | | 0.7 | 3.8 | 0.8 | 2.2 |
| W-2a Cert | 1.20 | 21.0 | 190 | 24.0 | 94.0 | 0.600 | 0.0460 | | | 0.790 | 0.990 | 182 | 0.0300 | 10.0 | 23.0 | | 13.0 | 3.30 | 1.00 | | | 0.630 | 3.60 | 0.760 | 2.50 |
| SY-4 Meas | | | 1203 | 111 | 519 | | | | | | | | | | | | | | | | | | | | |
| SY-4 Cert | | | 1191 | 119 | 517 | | | | | | | 340 | | | | | | | | | | | | | |
| CTA-AC-1 Meas | | | | | | | | | | | | | | 2210 | 3350 | | 1140 | 165 | 45.7 | 131 | 14.9 | | | | |
| CTA-AC-1 Cert | | | | | | | | | | | | | | 2176 | 3326 | | 1087 | 162 | 46.7 | 124 | 13.9 | | | | |
| BIR-1a Meas | < 5 | | 108 | 13 | 16 | | | | | 0.6 | | 7 | | | | | 2.5 | 1.1 | 0.51 | 1.9 | | | | | |
| BIR-1a Cert | 0.44 | | 110 | 16 | 18 | | | | | 0.58 | | 6 | | | | | 2.5 | 1.1 | 0.55 | 2.0 | | | | | |
| NCS DC86312 Meas | | | | | | | | | | | | | | 2350 | 173 | | 1560 | | | 223 | 34.3 | 184 | 35.7 | 96.6 | |
| NCS DC86312 Cert | | | | | | | | | | | | | | 2360.000 | 190.000 | | 1600.000 | | | 225.0 | 34.6 | 183.00 | 35.70 | 96.2 | |
| ZW-C Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZW-C Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86302 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70014 Meas | | | | | | 270 | 16.4 | | | 180 | | | 80.3 | 41.4 | 81.3 | | 36.8 | 7.6 | 1.65 | 6.9 | 1.2 | 6.3 | 1.3 | 3.4 | |
| NCS DC70014 Cert | | | | | | 270 | 16.7 | | | 180.000 | | | 80.3 | 45.3 | 87.0 | | 39.9 | 8.0 | 1.8 | 7.4 | 1.1 | 6.7 | 1.3 | 3.5 | |
| NCS DC86316 Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC86316 Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| NCS DC70009 (GBW07241) Meas | | | | | | | | 1.3 | 1700 | | 41.4 | | | | | | | 11.6 | | 13.7 | 3.1 | 19.7 | 4.1 | 12.1 | |
| NCS DC70009 (GBW07241) Cert | 69.9 | 500.00 | | | | | | 1.3 | 1701.000 | | 41 | | | | | | | 12.5 | | 14.8 | 3.3 | 20.7 | 4.5 | 13.4 | |
| SGR-1b Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 100a (Fusion) Meas | | | | | | 23 | | | | | | | | 247 | 444 | 44.3 | 144 | 23.7 | 3.58 | 20.5 | 3.7 | 22.3 | 4.8 | 14.0 | |
| OREAS 100a (Fusion) Cert | | | | | | 24.1 | | | | | | | | 260 | 463 | 47.1 | 152 | 23.6 | 3.71 | 23.6 | 3.80 | 23.2 | 4.81 | 14.9 | |
| OREAS 101a (Fusion) Meas | | | | | | 20 | | | | | | | | 753 | 1330 | 122 | 370 | 48.0 | 7.67 | | | 30.5 | 6.2 | 18.3 | |
| OREAS 101a (Fusion) Cert | | | | | | 21.9 | | | | | | | | 816 | 1396 | 134 | 403 | 48.8 | 8.06 | | | 33.3 | 6.46 | 19.5 | |
| JR-1 Meas | 16 | 252 | | | | 3 | 0.7 | < 0.2 | | | 20.9 | | | 20.0 | 45.2 | 5.65 | 22.4 | 5.8 | 0.29 | 5.5 | 1.1 | 6.1 | | 3.9 | |
| JR-1 Cert | 16.3 | 257 | | | | 3.25 | 0.031 | 0.028 | | | 20.8 | | | 19.7 | 47.2 | 5.58 | 23.3 | 6.03 | 0.30 | 5.06 | 1.01 | 5.69 | | 3.61 | |
| NCS DC86318 Meas | | | | | | | | | | | | | | 1960 | 410 | 730 | 3320 | 1740 | 19.2 | 2130 | 478 | 3060 | 565 | 1670 | |
| NCS DC86318 Cert | | | | | | | | | | | | | | 1960 | 430 | 740 | 3430 | 1720 | 18.91 | 2095 | 470 | 3220 | 560 | 1750 | |
| USZ 42-2006 Meas | | | | | | | | | | | | | | 21700 | 28600 | 2410 | 6610 | 549 | 90.3 | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | | | | | | 21100 | 27600 | 2300 | 6500 | 539 | 87.22 | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | As | Rb | Sr | Y | Zr | Mo | Ag | In | Sn | Sb | Cs | Ba | Bi | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er |
|---------------------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 5 | 2 | 2 | 2 | 4 | 2 | 0.5 | 0.2 | 1 | 0.5 | 0.5 | 3 | 0.4 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.05 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-ICP | FUS-ICP | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-ICP | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | | | | | | | | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | | | | | | | | | | | | | | | | |
| 107984 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107984 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 107990 Orig | 13 | 29 | 953 | 205 | 83 | 10 | 0.6 | < 0.2 | 4 | < 0.5 | 0.9 | 524 | 0.6 | 492 | 1160 | 147 | 602 | 121 | 34.1 | 87.5 | 11.6 | 54.0 | 8.1 | 17.8 |
| 107990 Dup | 12 | 29 | 952 | 212 | 83 | 9 | 0.6 | < 0.2 | 4 | < 0.5 | 0.9 | 531 | 0.6 | 496 | 1170 | 148 | 618 | 125 | 35.3 | 89.5 | 11.8 | 54.9 | 8.3 | 18.5 |
| 107994 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 107994 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 109901 Orig | 16 | 3 | | | | < 2 | < 0.5 | 0.3 | 2 | < 0.5 | < 0.5 | | 1.5 | 1760 | 5110 | 586 | 2050 | 331 | 73.1 | 157 | 12.6 | 51.9 | 7.1 | 15.6 |
| 109901 Dup | 16 | 3 | | | | < 2 | < 0.5 | 0.4 | 2 | < 0.5 | < 0.5 | | 2.2 | 1720 | 5060 | 579 | 2030 | 322 | 71.2 | 150 | 12.6 | 50.8 | 6.9 | 15.3 |
| 109901 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 109901 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Split | | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 109904 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 109916 Orig | 13 | 6 | 1250 | 176 | 47 | 2 | 1.4 | < 0.2 | 2 | < 0.5 | < 0.5 | 271 | < 0.4 | 979 | 1670 | 180 | 621 | 104 | 26.4 | 70.4 | 8.4 | 41.2 | 6.4 | 14.6 |
| 109916 Dup | 14 | 6 | 1263 | 173 | 49 | 2 | 1.2 | < 0.2 | 2 | < 0.5 | < 0.5 | 275 | 0.5 | 975 | 1650 | 177 | 612 | 102 | 26.3 | 69.9 | 8.6 | 40.1 | 6.0 | 13.9 |
| 109919 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 109919 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 109924 Split | | | 1550 | 203 | 77 | | | | | | | 354 | | | | | | | | | | | | |
| 109928 Orig | | | | | | | | | | | | | | | | | | | | | | | | |
| 109928 Dup | | | | | | | | | | | | | | | | | | | | | | | | |
| 109930 Split | 11 | 13 | | | | 4 | < 0.5 | < 0.2 | 3 | < 0.5 | < 0.5 | | 1.9 | 2610 | 4590 | 446 | 1310 | 166 | 42.1 | 110 | 12.8 | 60.5 | 10.0 | 25.0 |
| 109930 Orig | 13 | 12 | 2031 | 298 | 56 | 5 | 1.3 | < 0.2 | 3 | < 0.5 | < 0.5 | 464 | 0.9 | 2500 | 4690 | 431 | 1260 | 161 | 40.3 | 115 | 12.6 | 56.6 | 9.4 | 24.8 |
| 109930 Dup | 16 | 12 | 2029 | 291 | 56 | 5 | 1.3 | < 0.2 | 3 | < 0.5 | < 0.5 | 461 | 2.3 | 2550 | 4780 | 435 | 1250 | 162 | 40.3 | 117 | 13.3 | 57.7 | 9.4 | 23.9 |
| Method Blank Method | < 5 | < 2 | | | | < 2 | < 0.5 | < 0.2 | < 1 | < 0.5 | < 0.5 | | < 0.4 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.05 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Blank Method | | | | | | | | | | | | | | | | | | | | | | | | |
| Blank | | | | | | | | | | | | | | | | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U |
|-----------------------------|--------|--------|--------|--------|---------|--------|----------|-----------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |
| DH-1a Meas | | | | | | | | 928 | |
| DH-1a Cert | | | | | | | | 910 | |
| NIST 694 Meas | | | | | | | | | |
| NIST 694 Cert | | | | | | | | | |
| DNC-1 Meas | | 1.9 | | | | | | | |
| DNC-1 Cert | | 2.0 | | | | | | | |
| GBW 07113 Meas | | | | | | | | | |
| GBW 07113 Cert | | | | | | | | | |
| SCO-1 Meas | | | | | | | | | |
| SCO-1 Cert | | | | | | | | | |
| LKSD-3 Meas | | 2.7 | 0.38 | 4.4 | 2 | | | 10.9 | 4.4 |
| LKSD-3 Cert | | 2.70 | 0.400 | 4.80 | 2.00 | | | 11.4 | 4.60 |
| OKA-2 Meas | | | | | | | | 29000 | |
| OKA-2 Cert | | | | | | | | 28900.000 | |
| DR-N Meas | | | | | | | | | |
| DR-N Cert | | | | | | | | | |
| UB-N Meas | | | | | | | | | |
| UB-N Cert | | | | | | | | | |
| W-2a Meas | 0.34 | 2.1 | 0.30 | 2.4 | < 1 | < 0.1 | 7 | 2.5 | 0.5 |
| W-2a Cert | 0.380 | 2.10 | 0.330 | 2.60 | 0.300 | 0.200 | 9.30 | 2.40 | 0.530 |
| SY-4 Meas | | | | | | | | | |
| SY-4 Cert | | | | | | | | | |
| CTA-AC-1 Meas | | 11.3 | 1.12 | | | | | | 4.2 |
| CTA-AC-1 Cert | | 11.4 | 1.08 | | | | | | 4.4 |
| BIR-1a Meas | | 1.7 | 0.25 | 0.6 | | | | | |
| BIR-1a Cert | | 1.7 | 0.3 | 0.60 | | | | | |
| NCS DC86312 Meas | 14.3 | 86.7 | 12.1 | | | | | 25.4 | |
| NCS DC86312 Cert | 15.1 | 87.79 | 11.96 | | | | | 23.6 | |
| ZW-C Meas | | | | | | | | | |
| ZW-C Cert | | | | | | | | | |
| NCS DC86302 Meas | | | | | | | | | |
| NCS DC86302 Cert | | | | | | | | | |
| NCS DC70014 Meas | 0.52 | 3.3 | 0.48 | | | | 27200 | | |
| NCS DC70014 Cert | 0.57 | 3.3 | 0.50 | | | | 27200.00 | | |
| NCS DC86316 Meas | | | | 715 | | | | | |
| NCS DC86316 Cert | | | | 712 | | | | | |
| NCS DC70009 (GBW07241) Meas | 2.24 | 15.1 | | | 2200 | | | 28.3 | |
| NCS DC70009 (GBW07241) Cert | 2.2 | 14.9 | | | 2200.00 | | | 28.3 | |
| SGR-1b Meas | | | | | | | | | |
| SGR-1b Cert | | | | | | | | | |
| OREAS 100a (Fusion) Meas | 2.30 | 14.8 | 2.11 | | | | | 51.6 | 140 |
| OREAS 100a (Fusion) Cert | 2.31 | 14.9 | 2.26 | | | | | 51.6 | 135 |
| OREAS 101a (Fusion) Meas | 2.78 | 17.4 | 2.45 | | | | | 35.2 | 420 |
| OREAS 101a (Fusion) Cert | 2.90 | 17.5 | 2.66 | | | | | 36.6 | 422 |
| JR-1 Meas | 0.68 | 4.6 | 0.69 | 4.3 | | 1.6 | 20 | 27.0 | 9.2 |
| JR-1 Cert | 0.67 | 4.55 | 0.71 | 4.51 | | 1.56 | 19.3 | 26.7 | 8.88 |
| NCS DC86318 Meas | 274 | 1780 | 263 | | | | | | |
| NCS DC86318 Cert | 270 | 1840 | 260.0 | | | | | | |
| USZ 42-2006 Meas | | | | | | | | | |
| USZ 42-2006 Cert | | | | | | | | | |
| CDN-GS-1H Meas | | | | | | | | | |
| CDN-GS-1H Cert | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | |

Quality Control

| Analyte Symbol | Tm | Yb | Lu | Hf | W | Tl | Pb | Th | U |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Detection Limit | 0.05 | 0.1 | 0.04 | 0.2 | 1 | 0.1 | 5 | 0.1 | 0.1 |
| Analysis Method | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS | FUS-MS |

| | | | | | | | | | |
|---------------------|--------|-------|--------|-------|-----|-------|-----|-------|-------|
| CDN-GS-P2A Cert | | | | | | | | | |
| CDN-GS-P2A Meas | | | | | | | | | |
| CDN-GS-P2A Cert | | | | | | | | | |
| 107984 Orig | | | | | | | | | |
| 107984 Dup | | | | | | | | | |
| 107990 Orig | 2.13 | 11.4 | 1.48 | 2.3 | 7 | 0.8 | 97 | 254 | 0.4 |
| 107990 Dup | 2.16 | 11.7 | 1.47 | 2.2 | 7 | 0.8 | 112 | 252 | 0.4 |
| 107994 Orig | | | | | | | | | |
| 107994 Dup | | | | | | | | | |
| 109901 Orig | 1.75 | 10.2 | 1.28 | 1.3 | < 1 | 0.1 | 124 | 1270 | 1.0 |
| 109901 Dup | 1.79 | 10.0 | 1.27 | 1.2 | < 1 | 0.1 | 160 | 1250 | 0.9 |
| 109901 Orig | | | | | | | | | |
| 109901 Dup | | | | | | | | | |
| 109904 Split | | | | | | | | | |
| 109904 Orig | | | | | | | | | |
| 109904 Dup | | | | | | | | | |
| 109916 Orig | 1.70 | 9.6 | 1.31 | 1.0 | < 1 | < 0.1 | 49 | 116 | 0.2 |
| 109916 Dup | 1.70 | 9.5 | 1.27 | 0.9 | < 1 | < 0.1 | 43 | 119 | 0.1 |
| 109919 Orig | | | | | | | | | |
| 109919 Dup | | | | | | | | | |
| 109924 Split | | | | | | | | | |
| 109928 Orig | | | | | | | | | |
| 109928 Dup | | | | | | | | | |
| 109930 Split | 3.22 | 16.9 | 2.16 | 1.3 | 1 | 0.3 | 93 | 429 | 0.2 |
| 109930 Orig | 3.08 | 15.9 | 2.07 | 1.3 | 2 | 0.2 | 123 | 434 | 0.2 |
| 109930 Dup | 3.03 | 16.6 | 2.05 | 1.2 | 3 | 0.2 | 153 | 426 | 0.2 |
| Method Blank Method | < 0.05 | < 0.1 | < 0.04 | < 0.2 | < 1 | < 0.1 | < 5 | < 0.1 | < 0.1 |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |
| Method Blank Method | | | | | | | | | |
| Blank | | | | | | | | | |



Date Submitted: 24-Oct-11
Invoice No.: A11-12462-Nb
Invoice Date: 15-Dec-11
Your Reference: BATCH # 24

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Darren Smith

CERTIFICATE OF ANALYSIS

56 Rock samples were submitted for analysis.

The following analytical packages were requested:

REPORT A11-12462-Nb

Code 1A2 Au - Fire Assay AA
Code 4F-F Fusion Specific Ion Electrode-ISE
Code 8-REE Assay Package Major Elements Fusion
ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
Code 8-XRF Assay Package Fusion-XRF
Code Weight Report Received and Pulp Weights

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Total includes all elements in % oxide to the left of total.
Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: P2O5 interference on Zr/Nb/Ta/Hf

CERTIFIED BY :

[Handwritten signature]

Emmanuel Esemé , Ph.D.
Quality Control



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| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |
| 107976 | < 0.003 | 0.012 |
| 107977 | < 0.003 | 0.004 |
| 107978 | < 0.003 | 0.129 |
| 107979 | < 0.003 | 0.041 |
| 87696 | < 0.003 | 0.033 |
| 107980 | < 0.003 | < 0.003 |
| 107981 | < 0.003 | 0.024 |
| 107982 | < 0.003 | 0.028 |
| 107983 | < 0.003 | 0.055 |
| 107984 | < 0.003 | 0.082 |
| 107985 | < 0.003 | 0.007 |
| 107986 | < 0.003 | 0.062 |
| 107987 | < 0.003 | 0.044 |
| 107988 | < 0.003 | 0.054 |
| 107989 | < 0.003 | < 0.003 |
| 107990 | < 0.003 | 0.039 |
| 107991 | < 0.003 | 0.110 |
| 107992 | < 0.003 | 0.006 |
| 107993 | < 0.003 | 0.006 |
| 107994 | < 0.003 | 0.041 |
| 107995 | < 0.003 | 0.048 |
| 107996 | < 0.003 | 0.123 |
| 107997 | < 0.003 | 0.118 |
| 107998 | 0.003 | 0.038 |
| 107999 | < 0.003 | 0.029 |
| 108000 | < 0.003 | 0.012 |
| 109901 | < 0.003 | 0.008 |
| 109902 | 0.003 | 0.040 |
| 109903 | < 0.003 | 0.037 |
| 109904 | 0.003 | 0.124 |
| 109905 | < 0.003 | 0.029 |
| 109906 | < 0.003 | 0.017 |
| 109907 | < 0.003 | 0.020 |
| 109908 | < 0.003 | 0.062 |
| 109909 | < 0.003 | 0.052 |
| 109910 | < 0.003 | 0.132 |
| 109911 | < 0.003 | 0.119 |
| 109912 | < 0.003 | 0.073 |
| 109913 | < 0.003 | 0.044 |
| 109914 | < 0.003 | 0.016 |
| 109915 | < 0.003 | 0.010 |
| 109916 | < 0.003 | 0.017 |
| 109917 | < 0.003 | 0.007 |
| 109918 | 0.003 | 0.010 |
| 109919 | 0.003 | 0.005 |
| 109920 | < 0.003 | 0.008 |
| 109921 | < 0.003 | 0.092 |
| 109922 | < 0.003 | 0.078 |
| 109923 | < 0.003 | 0.016 |
| 109924 | < 0.003 | 0.186 |
| 109925 | < 0.003 | 0.006 |
| 109926 | < 0.003 | 0.006 |

| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |
| 109927 | < 0.003 | 0.004 |
| 109928 | < 0.003 | 0.011 |
| 109929 | < 0.003 | 0.007 |
| 109930 | < 0.003 | 0.023 |

Quality Control

| Analyte Symbol | Ta2O5 | Nb2O5 |
|-----------------|---------|---------|
| Unit Symbol | % | % |
| Detection Limit | 0.003 | 0.003 |
| Analysis Method | FUS-XRF | FUS-XRF |

| | | |
|--------------|---------|---------|
| AC-E Meas | | 0.015 |
| AC-E Cert | | 0.016 |
| OKA-1 Meas | | 0.530 |
| OKA-1 Cert | | 0.529 |
| ZW-C Meas | 0.009 | |
| ZW-C Cert | 0.010 | |
| VS-N Meas | 0.097 | 0.099 |
| VS-N Cert | 0.098 | 0.10 |
| SX18-01 Meas | 0.005 | 0.696 |
| SX18-01 Cert | 0.005 | 0.695 |
| 107990 Orig | < 0.003 | 0.039 |
| 107990 Dup | < 0.003 | 0.040 |
| 109901 Orig | < 0.003 | 0.007 |
| 109901 Dup | < 0.003 | 0.009 |
| 109904 Orig | 0.003 | 0.124 |
| 109904 Split | 0.004 | 0.122 |
| 109916 Orig | < 0.003 | 0.017 |
| 109916 Dup | 0.003 | 0.017 |
| 109924 Orig | < 0.003 | 0.186 |
| 109924 Split | < 0.003 | 0.189 |
| 109930 Orig | < 0.003 | 0.023 |
| 109930 Split | < 0.003 | 0.024 |
| 109930 Orig | < 0.003 | 0.023 |
| 109930 Dup | < 0.003 | 0.023 |
| Method Blank | < 0.003 | < 0.003 |

APPENDIX 8A: 2010 AND 2011 DRILL HOLE LOGS

GEOLOGICAL DRILL LOG

Handwritten signature and date: 06/22/23

| | | | | |
|---|------------------------------------|-------------------------------------|--|--|
| Property: Eldor Property | Easting (m): 536391.24 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 05, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312024.36 | Rig Type: Discovery I | Date Completed: Jul 12, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: Imperial to metric rod change @ ~210 m |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 293.71 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -50° | Core storage: Camp Valcourt | Logged By: D. Smith, A. Peter-Rennich, R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | ~3.74 | - | | <p><u>bldr pieces rolled core</u></p> <p><1 cm to ~12 cm pieces. 3-4 bldr types. 1 - cc-Carb (S1), 2 - M-Carb (S2?), 3 - v.f.g. med gy M-Carb (S4), 4 - ~12 cm met looking litho (sph), hard, f.g. k gy. RA - relatively low.</p> | | | | |
| 3.74 | 123.66 | - | | <p><u>dol-Carb v.f.g. with abnt fl ol gy (munsil 5Y 4/1)</u></p> <p>stage 4 with abnt fl. ol-gy colour fairly consistent throughout unit. fl [notes seem to indicate fl: ukn associated br-r min, 5-15%, common, >50% locly, dol - fl minor py + phl ?? hem blebs and patches].</p> <p>fl is pervasive and occurs as <0.5 cm bnds (more irregular than not) or as irregular patches or blebs (via vug infillings likely) and frac, p colour.</p> <p>small <1 cm bndg of v.v.f.g. M-Carb common. bndg orientation tends to be irregular and often may grade into majority of gdmass, but also appears to cut gdmass at times... and fl bnds, but generally x-cuts the fl. odd relationship, these bnds are very common.</p> <p>pk dol on frac surfaces along fl. minor py and phl present in unit + v. minor silvery met min (<1 mm x 1 cm). found only two times.</p> <p>8.23 m to 8.86 m - minor brcd text. <2 cm cr coloured S1 Carb clsts with vns of fl surrounding large amount of tiny fl vns.</p> <p>9.00 m to ~12.00 m - zone of vuggyness with hem infilling likely oxidation of mag/ilm. hem also present as small < 1 mm size blebs or patches, and on same frac. in this interval and others. ~9.00 m to 9.20 m - broken core. more than usualy but not enough to infer fault I dont think. hem lim?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>13.25 m to 13.90 m - fl increasing amount, bnded. bnded @ 50° TCA @ 13.30 m, 50° TCA @ 19.30 cm.</p> <p>~21 m to ~29.5 m - a greater variation in text is evident. fl generally increases in abundance as vns, large blebs and as irregular shaped itsl fillings. v.v.f.g. bnds cut everything. fl provides dominate text visually. this sub-interval has grains within the fl, i.e. lt br (?), dull gr-br(?). most notable at 21.78 m and 24.85 m. bsn?, or another flc.</p> <p>22.60 m to 22.70 m - patch of m.g. mag. (1-3 mm equant grains. forms "X" patern but does not cut through core. some pitting evident.)</p> <p>~23.50 m to 24.40 m - zone of intense hem alteration silvery (primary) and rusty r. most intense at 23.80 m to 24.00. v. similar to previous hem zone. bit change @ ~26.75. @27.78 m - bndg of fl @ 45° TCA.</p> <p>28.15 to 29.57 m - driller had hard time and fucked the core. core is mostly small disks 5 cm to <0.5 cm in width. not fault.</p> <p>29.57 m to 29.69 m, 32.64 m to 67.00 m- f.g. to m.g. cc-dol unconsolidated core (gauge?).</p> <p>29.69 m to 35.50 m - same overall litho but with much less fl. v.v.f.g. bndg continues as usual. hem present as blebs, grain size appears finer than above. 32.61 m to 32.80 increased frac. dol clst @33.11.</p> <p>@~35.50 m fl content increases</p> <p>@40.15 m - unusual text, looks almost brc. but not 1 mm cr coloured "clsts" evident. text occurs occasionally over small intervals throughout overall interval.</p> <p>41.30 m to 41.50 m - intense hem altn, some minor vuggyness.</p> | | | | |

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|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>46.71 m to 86 m, 43.00 m to 43.20 m - fl is dominant as in earlier interval fl is intermingled with an unkn lt br-r min. this mineral is hard to see without the binocular scope. I think it is perv with the fl and may dominate in presence at times.</p> <p>@48.45 m - v.v.f.g. bnds cross and cut eachother. wtf!</p> <p>~49 m to 49.40 m - mottled text of v.v.f.g. ol-gy material ± diss py ± fl. the mottled bndg parallels the CA.</p> <p>~52.20 m to 58.50 m - grain size coarsens, colours lightens but perv fl persists and increases locly. cc-br min (diss in fl) is associated with fl. a psd-brc appearance is evident again with 0.5 m ang dol grains with fl mtx. brc always mottled appearance casting doubt as to brc origin, most evident at 56.70 m, at coarser scale at 60.25 m.</p> <p>after 58.50 m - grian size fines and fl content decreases, locl psd-brc text common every couple m and always accompanied by an increase in fl.</p> <p>@66.85 m - mafic patch, possible fl but questionable.</p> <p>@69.27 m - fl hem bnd, 45° TCA.</p> <p>until 71.30 m, f.g., M-Carb; pale ol 10Y 6/6; mod flow bndg; fracs infilled with fl; parallel fracs; few vns ~0.7 cm wide, more gy.</p> <p>10-40 cm intrersections with c.g. rnded dol; fl blebs abnt; [could be areas of higher deformation producing a wkly ctsc text].</p> <p>@74.30 m frac filled fl, 40° TCA.</p> <p>@80.40 m - flow bndg vns, 50° TCA.</p> <p>@83.80 m - 0.5 cm wide dol vn, 50° TCA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>89.00 m to 90.00 m - abnt f.g. gy-ol vns, 0.8-2 cm wide; these vns cross out any flow direction of pre-existing mtx.</p> <p>@85.00 m - flow bndg with fl 25° TCA.</p> <p>@89.55 m - vns 70° TCA.</p> <p>97.50 m to 98.60 m - pale ol, vn; c.g. rnded dol + phl + fl entrapped within the vn; vn undulating ctc; texts around the vn are more ctsc than usual, diss fl.</p> <p>common fracs infilled with fl + diss py.</p> <p>98.60 m to 105.70 m - f.g. pale ol vns v. common; low mineralization within; undulating ctc; x-cut everything.</p> <p>@99.00 m - f.g. euh py occurs in fracs.</p> <p>100 m to 102.50 m - c.g., p fl, diss, common, mass + speckled, no fluorescence under cathodelum.</p> <p>103.20 m to 103.35 m - long frac.</p> <p>105.60 m to 110.24 m - c.g.: p blebs of fl gy-p 5P 4/2; mass; no bndg; itsl; fl no florescence.</p> <p>107.39 m to 108 m - core heavily fracd (perpendicular and parallel TCA) fault?</p> <p>110.24 m to 115.50 m - f.g., pale ol; yes bndg, homo min size; fl bnds fluoresece under cathodelumincence. few 2-8 cm wide sections of mass text under the bndg.</p> <p>115.50 m to 116.63 m - c.g., mass, fl blebs, same as previous; few 0.4-4 cm wide pale ol bnds (shrp ctcs).</p> | | | | |

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|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 123.66 | 123.74 | - | | <p>116.63 m to 122.98 m - f.g., pale ol, homo; fl + py along fracs; bndg + vning through out; no fluorescence fl, no fl in f.g. common cc vugs with c.g. fl.</p> <p>@119.20 m - 1.20 m frac ~10° TCA.</p> <p>@121.30 m - c.g. vugs with cc - fl - chl.</p> <p><u>Glim</u> f.g. gr-blk 5GY 2/1; str fol; bio-chl; f.g. euh py; upper ctc 35° TCA, lower ctc 50° TCA.</p> | | | | |
| 123.74 | 136.30 | - | | <p><u>dol-Carb</u> m.g., ol-gy 5Y 4/1; two different text one: mass with c.g. fl blebs and two: homo bnds x-cut over everything. upper ctc has bnd of bsn (f.g. r-og; high REE min). fracs common; diss f.g. euh py few along fracs. vugs common.</p> <p>128.80 m to 129.10 m - vug with c.g. sub-euh cc-fl-chl.</p> <p>@129.40 m - bndg 70° TCA.</p> <p>@133.80 m - fracs 45° TCA.</p> <p>133.05 to 133.60 m - ibd Glim vns; f.g.; gr-blk; x-cut through fl, py Carb; m.g. euh py along ctc.</p> | | | | |
| 136.36 | 145.00 | - | | <p><u>Glim</u> f.g.; gr-blk 5GY 2/1; mass; m.g. euh py; abnt chl through out (~20%). (phl/bio)</p> <p>139.29 m to 139.46 m, 139.41 m to 139.52 m, 141.30 m to 141.30 m, 142.04 m to 142.19 m, 142.50 to 142.02 m - Carb streamers max 1/2 diameter of core, vns cc around ctc, few f.g. py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 145.00 | 173.23 | - | | <p>Carb streamers; f.g., dusky y-gr 5GY 5/2; xtl; c.g. blebs fl; c.g. euh py. Carb (essentially a variety of S4) runs ~parallel TCA. ctc is wavy and fragd with some ang frags within the Glim. odd relationship. Glim is also not brc as is typically in other holes. Carb rims v. fracd frags within Glim. Glim does not fizz, powdered or otherwise. v. rare to find no cc or dol vns within. upper + lower ctc undulating.</p> <p><u>dol-Carb</u> f.g. to c.g.; ol, gy 5Y 4/1; c.g. dol + fl Carb x-cut with f.g. homo Carb vns; random orientation of vns, few f.g. euh py usually along fracs; common fracs infilled with fl + py; common cm scale vugs infilled with chl.</p> <p>147.55 m to 147.75 m - ibd Glim; f.g. gr-blk, str fol; 1 cm qtz vn + c.g. pale pk dol; few m.g. euh py. fl and bsn grains follow Glim fol (in cluster). ambl 20%.</p> <p>@147.55 m - upper ctc, 50° TCA.</p> <p>@147.75 m - lower ctc, 50° TCA.</p> <p>@170.30 m - dol vn, 70° TCA.</p> <p>clusters of fl throughout, 5-15 cm sections, 10-15% locly. py enriched here, and flc, exsolution (or replacement?) may have diss mag (@150.25).</p> <p>text predominantly v.f.g. lt ol-gy Carb mass to wkly bnded with brcd sections - these have clsts (look like v.f.g. lt ol-gy Carb) up to 1.5 cm surrounded by f.g. diss py, fl (replaced by flc) and ambl - important from 151.33 m to 152 m.</p> <p>ctc between both texts grad brcd sections have vnlets (<1 cm wide) cutting through randomly of v.f.g. stuff.</p> <p>152.50 m to 153.50 m - grain size increases, not too brc though - homo (in sections) and mass, only a few fracs/vns cutting through.</p> <p>@153.60 m - large fl cluster (with some exsolution/replacement) broken and split apart by v.f.g. ns (curved, ~1 cm wide).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 173.23 | 179.53 | - | | <p>153.71 m to 156 m - grain size increases mostly to med, wk bndg throughout - v. undulatory highlighted by thin dk v.f.g. streaks; fl more common (in clusters and diss); some v.f.g. lt ol-gy Carb vns cutting through, and some fracd zones with ang clsts; fracs infilled with py and mag.</p> <p>156 m to 156.50 m - mtx switches to mag. mostly dk gr disseminated py and mag up to few % (5 or 10% lclly (f.g.)) no fl; increased ap?. ctc at both ends pretty sharp/easy to spot.</p> <p>156.50 m to end - rock is hetero but shows similar patterns/texts throughout. predominantly mass; fewer v.f.g. lt ol-gy Carb vns cutting through mostly concentrated towards top and bottom (these usually occur over ~20 cm (several grouped together) and disrupt/break everything in their way), mostly sharp ctc's but can be gradational also; mag continues in some fracs, lclly replaced by hem. fl common, usually diss 5-15% (increase below ~169 m). @163.15 m, 8 cm bnd crossing core ol-blk, euh py up to 4 mm (1-2%, crosses at ~45° TCA) and mag f.g. diss (20-30% ±, crosses at ~45° CA). more broken/partially replaced mag at 163.57 m. mtx predominantly dol but also m.g. dol xtls/clsts throughout.</p> <p>I emphasize xtls cause text here more akin to igneous than brcd.</p> <p>ranges from m.g. with beaucoup mineralization (higher fl) prtc (aph gdmass) to largely aph with thin sinous strings of cryptocrystalline melanocratic min - shows wk fol?. @165.70 m, large semi-circle developed by these, fold?</p> <p>towards bottom, rock is more homo, eqgr (more classic igneous look).</p> <p>over last 30 cm, fl occurs in vnlets, >1 cm.</p> <p>lower ctc is sharp.</p> <p><u>M-Carb brc (tuff?)</u> text changes to rnded to sub-ang clst within homo mass mtx; f.g. py common along fracs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 179.53 | 181.49 | - | | <p>dk gr-gy, mass, mtx-sup (v.f.g. mtx), clsts range a few mm to >5 cm across, a-subr. clsts are dol/M-Carb (of various 'stages'), fl (solid and Carb bits with fractured fl), others?</p> <p>v. rare Carb vns cutting through (the v.f.g. lt ol-gy stuff).</p> <p>mtx >85% dol.</p> <p>sharp lower ctc, 45° TCA.</p> <p><u>Glim</u></p> <p>gr-blk; wkly fol - by orientable mins, seen at repeatable breaks (consistent core angle) and occasional bnds of dol? (<1 mm thick). (phl)</p> <p>f.g: 'vesicules' (or rnded clsts?) distributed throughout, from 0-10%, less common at top, increase in size and abundance towards bottom (up to 8 mm across), sometimes follow fol; these are dol.</p> <p>180.80 m to 181.15 m - decrease in phl (<30%locly), grad transition, increase in dol (in mtx & clsts/vesicules).</p> <p>modal mineralogy: phl: 80%; dol 20%.</p> <p>fol msmt at 179.85 m = 55° TCA, 181 m = 60° TCA.</p> | | | | |
| 181.49 | 219.35 | - | | <p><u>M-Carb</u></p> <p>pale ol (near top) to medium gy with pale ol and medium b-gy scattered throughout (middle and bottom); mass. dol.</p> <p>upper ctc shap, somewhat jagged, 60° TCA.</p> <p>top 50 cm has several vns cutting at all angles (random & wavy), one is qtz (nearest ctc), remainder are later stage Carb (v.f.g. stuff).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>182 m to 182.65 m - rock is bnded, bnds of dol/Carb and fl visible, 40° TCA.</p> <p>py scattered throughout, euh cubes up to a few mm, and also at fracs usually surrounded by bio/phl (up to 50% locly), (at Glim frags).</p> <p>only occasional fl pacthes down to 195 m (up to 30% locly); then almost non-existent down to 211 m.</p> <p>top half of this interval has blotchy/mottled text with cobweb fracs (infilled with hem/py/other), switches from f.g.-m.g. (aph gdmass usually always present).</p> <p>183.40 m to 183.65 m - ol-gy (dkr and gr than surrounding!) bnd, eqgr (grains <1 mm), minor mag in fracs at top, gradational upper ctc, sharp lower ctc. (defined by a couple late stage Carb vns).</p> <p>@184.92 m and 187.98 m - ibd Glim frags, (both ~15 cm), f.g. fol, >90% phl, ctcs up to 3 cm wide with mass fl (>40%) and py cubes surrounded by phl. 191.35 m to 191.70 m, another Glim frag; sharp upper ctc (+ TCA), grad lower ctc (over 20+ cm); this Glim is gr and way softer, only crosses 1/2 core length wise, ctc with Carb is fracd (mostly bio/phl here not chl) (mostly bio altd to chl?) and invading Carb, Carb fracs within Glim; fl all along ctc between fragd zone and chl; rnded dol grains up to 3%; 2 x 4 cm pocket at top with fl, bio surrounding euh py (up to 6 mm across); lower ctc that persists into Carb is heavily fracd (bio fillings fracs).</p> <p>185.07 m to 185.42 m - rock is more eqgr (less aph gdmass), m.g. , with itsl flc; diss py.</p> <p>192 m to 193.50 m - Carb heavily fracd, random angles.</p> <p>@187.60 m - a few fracs and late stage Carb vns (sinuous, 2-3 cm wide) with mag.</p> <p>193.30 m to 197 m - (20 cm long), r-pk min (bsn?) in and around (diss) fracs up to 5%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 219.35 | 242.73 | - | | <p>~195 m to end - rock is more homo, almost entirely aph gdmass (with some pkl zones); wkly bnded in places; py diss throughout (more, & euh).</p> <p>209.50 m to 210.10 m - rock is wkly bnded and gr ambl common (5-15%) with v.f.g. diss fl.</p> <p>@210.82 m (12 cm long) - ibd ambl-rich Glim(?); ctc sharp, rock is harder and dkr than other Glims in this interval (gr to gy-blk); py diss up to 1%; ctc are bio and fl-rich.</p> <p>210.45 m to 210.82 m - late stage lt ol-gy Carb vn.</p> <p>@~211 m - fl starts to appear again, but only up to 5% locly; at 215 m, 10 cm zone with fl up to 15%.</p> <p>211 to end - diss r-pk flc (bsn?) appears, diss locly up to a few %; important zones at 214-214.50 m, 217.40 m, 218 m, 218.75 m to end.</p> <p>~215 m to end - blotchy text with cobweb fracs returns, variable grain size throughout; gradational lower ctc. bnding msmt at 182.40 m = 35° CA, 188 m = 40° CA (glim frag), 205.50 m = 30° CA.</p> <p><u>bsn M-Carb</u></p> <p>v. lt gy to medium gy with mod r spots and streaks throughout; mass (hetero (but not as much as prev units...)); f.g-m.g.</p> <p>distribution of bsn pretty even throughout, diss (grains up to 6 mm across) and in thin streaks and bnds; up to 15% locly.</p> <p>gdmass (where present) and other min grains predominantly dol (>85%) and diss py (trace) ap?</p> <p>throughout are dkr gy bnds and patches (sometimes just as gdmass, otherwise whole sections [up to 10 cm long]).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 242.73 | 247.82 | - | | <p>@222.54 m - two curved bnds cross core (at ~30° TCA in centre), both enriched with bsn, one dkr gy and gr and terminates before crossing core completely; these are 1-3 cm wide; gradational ctc.</p> <p>@223.05 m - open frac running ~parallel TCA for 20 cm.</p> <p>rare late stage vns cutting unit - v.f.g. and lt ol-gy can be bnded no bsn; significant ones found at 224.24 m (4 cm bnd), at 226.60 m (30 cm zone of vnlets, curved and broken up, bsn concentrated at edges, inceased by small dol-filled and bsn-cc-mafic-filled vugs).</p> <p>rock is strongly bnded at 230.40 m to 230.90 m = 70° TCA, 231.68 m to 232.15 m = 65° TCA, 235.60 m to 236.30 m = 65° TCA, 236.80 m to end = 50° TCA. bnds are multi-compositing, highlighted by r-pk bsn, bnds <3 cm thick, ctc usually (not always) gradational.</p> <p>232.50 m to 235.60 m - core is essentially void of bsn - mostly dkr gy, dol-rich, suc text, f.g. and fairly eqgr with zones/patches of coarser grained dol xtls (up to a few mm), minor infilled cobwebby fracs; also some elongated vugs.</p> <p>@238.35 m - 10 cm concentrated bnd of bsn (10-20%), 50° TCA, still f.g.</p> <p>238.45 m to 240.40 m - series of late stage Carb vns cut through the unit - those are over 3 cm thick and commonly sub parallel TCA (traceable along >50 cm) and are wkly undulatory (doughnuts and X's visible); ctc/edges coated with bsn and b-gy dol.</p> <p>below 240 m - fl starts to appear in bndg, up to 5% locly (not common).</p> <p>241.50 m to end - bsn dissipates, restricted to ~30 cm pacthes (<5%) separated by 'clean' f.g. suc dol-rich Carb; lower ctc is gradational.</p> <p><u>M-Carb</u> m.g.-c.g.; lt gy N7; xtl; grain size non-eqgr; abnt fracs; mafic mins concentrate along fracs; abnt fracs; mafic mins concentrate along fracs; few cc vugs @242.90 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 247.82 | 264.10 | - | | <p>242.35 m to 242.72 m - v.f.g.; lt ol-gy Carb 4-7 cm vn; gradatioanl ctc with bnded bsn M-Carb.</p> <p>242.73 m to 247.60 m - wk bnding; <1% bsn common fracs; low mineralizarion; 36 cm mafic rich stockwork of vns with locky 10% po; upper ctc is gradational; lower ctc is undulating and sharp.</p> <p>245 m to 245.65 m - brc increases around c.g. qtz; fracturing on 245 m, qtz itsl with euh dol.</p> <p>chl along fracs common @246.43 m.</p> <p>increase in bsn at 246.60 m to 247.82 m; diss f.g. <1% bsn.</p> <p>bsn M-Carb overall interval is strongly bnded with intervals of brc common, v. hetero.</p> <p>247.82 m to 249.00m - abnt bsn, bnded up to 5% .</p> <p>247.82 m to 252.85 m - m.g., pale gr-y 10Y 8/2; str bndg; abnt f.g. bio bnds + fracs infilled by bio; few f.g. py; common fl blebs + clastic; xtl.</p> <p>249.00 m to 252.25 m - bsn abundance decreases to trace but in perv. locl increase @251.50 m.</p> <p>@249.51 m bndg = 50° TCA.</p> <p>250.90 m to 252.15 m - dominantly mtx-sup brc, mtx is f.g. tan to pk-tan to gr-gy, has diss bsn (<1%) and ap rich, clsts all <1 cm, typically dol or fl; wkly bnded in placecs with stronger bndg in the middle and larger clsts; gradational ctc.</p> <p>252.25 m to ~253 m - increase to 1-2% bsn.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 264.10 | 275.90 | - | | 252.25 m to 256.35 m - fracturing has brcd the Carb into clsts, f.g. bio has infilled the fracs, some bio has been chloritized; f.g. py has appeared in fracs; bsn appears in fracs + pervasivly diss throughout, no bndg; more mafics. | | | | |
| | | | | 256.35 m to 259.13 m - m.g. lt gy N7; xtlN; 5% (patchy (locl)) bsn (more common with 2% fl); bndg more common; few <1 cm vns of homo mod gr-y Carb 4. | | | | |
| | | | | 259.13 m to 261.47 m - highly fracd again; abnt f.g. bio + py infilling fracs; few bsn + fl outside of fracs; abnt chloritized bio. | | | | |
| | | | | @260.62 m - frac 30° TCA (along angle). | | | | |
| | | | | 261.47 m to 264.10 m - m.g. lt gy; bsn abnt; bndg abnt; fl blebs common; xtlN; less mafics. | | | | |
| | | | | 263.81 m to 253.99 m - f.g. moderate gr-y Carb 4 (? apa rich); grads in + out at ~70° CA; f.g. diss py. | | | | |
| | | | | <u>M-Carb</u> m.g. to f.g., lt gy N7 to med gy N5; abnt fracs infilled with f.g. bio; f.g. py common along fracs; chloritized bio flakes ~0.5 mm wide diss. | | | | |
| | | | | 264.95 m to 265.15 m - med gy, homo; Carb 4 vn; common ~2 cm wide vns. | | | | |
| | | | | fl blebs m.g. at 271.33 m (v. few fl otherwise). | | | | |
| | | | | 267.14 to 267.26 m - v.f.g. bio with abnt cc vnlets in a sharp ctc vn; fracs surrounding the vn; chl fracs common. | | | | |
| | | | | 272.48 m to 274.10 m - prtc perv; pheno of ap common; v.v.f.g. bio mtx; mass to bnded (around 272.55 m to 273.25 m); abnt f.g. euh py. | | | | |
| 275.90 | 282.30 | - | | <u>bsn M-Carb</u> m.g. lt gy to med gy; xtlN; str-mod bndg; <10% bsn bndg; common empty cc vugs; few fl bnded (5% fl locly in these bnds) with bsn; few fracs (infilled with f.g. bio). | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 282.30 | 285.25 | - | | <p>mod r flecks and bnds abnt f.g. - aph gdmass with fl and bsn phen. - prtc text.</p> <p>279 m to 279.55 m, 279.72 to 280.10 m - bsn increases, (>5%?), still strongly bnded, incl. v.f.g. bsn-rich bnds which cross coarser grained bndg and overprint.</p> <p><u>Glim</u> gy-blk with w bnds and pockets; heavily fracd with itsl cc/dol; f.g. wkly bnded.</p> <p>282.30 m to 282.50 m - core broken into pieces.</p> <p>282.30 m to 284.95 m - abnt mylonitization (shr zone?); f.g. bio around dol + py, f.g. diss po + py; ~35% bio.</p> <p>286.85 m to 287.05, 287.14 m to 287.25 m - brc bio clsts; cc vns, few py.</p> <p>288.73 to 288.83 m - fracd bio + py + po ~70% bio (Glim?!).</p> | | | | |
| 285.25 | 293.71 | - | | <p><u>C-Carb</u> w to lt gy with medium dk gy sections; v. hetero, mass to wkly bnded, occasional strly bnded wavy sections; f.g.-v.f.g. with pkl sections.</p> <p>@289.25 m, 290.71, 292.24, and 292.39 m - large frac with chl or bio sks(?).</p> <p>291.75 m to 291.92 m - mylonitization (shr zone?); ~35% f.g. bio; few f.g. py.</p> <p>@283.15 m - fol = 55° CA.</p> <p>@291.80 m - fol = 58° CA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>pkf sections 10-30 cm long, wkly bnded to mass, ltr gy to tan, coarser grained min is fl above 293 m, below is mag (+ some f.g. mag diss). dol-rich sections/ibd M-Carb from 290.75 m to end, 10-30 cm long, all gradatioanl ctcs.</p> <p>last 50 cm broken core - discs.</p> <p>down to ~290 m - a few pk bnds up to 3 cm wide - pk cc (Mn-rich?).</p> <p>trace diss f.g. mag located in dk gy bnds throughout.</p> <p>ibd fracd/brcd Glim frags itsl cc, dk gy-blk, 10-15 cm long at 286.90 m, 287.14 m, 288.75 m (with ambl up to 50%, low bio/ph!), and 291.75 m (more so brcd with elongated clsts/frags, ambl = bio/ph!); all have py trace - 2%.</p> <p style="text-align: center;">EOH</p> <p><i>Munsell colours used, 2009 Revision</i></p> | | | | |

Handwritten signature and date: 06/22/2010

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|---|--|
| Property: Eldor Property | Easting (m): 536351.45 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 13, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312062.49 | Rig Type: Discovery I | Date Completed: Jul 19, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 9.14 m | Note: Imperial to metric rod change @~203 m |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 284.16 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: D. Smith, P. Schmidt, R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | ~2.53 | - | | <p>Ovb various bldr frags etc. litho are 1 - Glim (<10 cm frag) v.f.g.no cc, 2 - S4 bldr frags (largest frag, 8 cm), 3 - cr coloured M-Carb, 4 - ~4 cm gneiss frag</p> | | | | |
| ~2.53 | 10.00 | - | | <p>fl rich M-Carb v.f.g. ol-gy (5Y 4/1), minor fizz with HCl, major fizz with powder.</p> <p>overall fl is p and present in bnds, patches and itsl. interval text is best defined by the fl.</p> <p>fl rich zones are sometimes cut by finer grained gr-ol Carb. healed fracs through whole unit filled with fl and minor sul.</p> <p>2.7 to 3 m zone of brc y-gy (5Y 8/1), M-Carb.</p> <p>along fracs and maybe some healed fracs are hem occurrences (red streak), could also be iron hydroxide.</p> <p>v.f.g. sul occur as trace min in Carb and fl.</p> <p>r min occurs within the fl, small grained but over whole unit almost 50% fl - 50% r min, but not in fl that healed fracs.</p> <p>--> 2 strings of fl?</p> <p>@ 9.60 m there is a ~10 cm thick Carb-rich clay</p> <p>--> flt gouch?</p> | | | 650-1000 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 10.00 | 192.42 | - | | <p>bndg is irregular.</p> <p>ctc of fl richer zones and poorer zones are gradational ~9.50 m all fracd zone --> fit?</p> <p><u>M-Carb (S4) with common fl</u> --> v.f.g. to f.g., ol-gy to lt ol-gy.</p> <p>interval is very similar to previous but fl is markedly less abnt. fl occurs again in patches and bnds as p min. associated with r min, again not in healed fracs. here again with sul. r min associated fl bnd with gradational ctc to gr Carb. hem or iron hydroxide at healed fracs.</p> <p>qtz-fl vn ~1 mm thick x-cut through at 12.5 m.</p> <p>brc of y-gy (5Y 8/1) M-Carb occur in unit, up to 1 cm clsts.</p> <p>gr-gy v.f.g. Carb x-cut through fl richer zones.</p> <p>10.40 to 11.10 m - zone of brc Carb filled with gy-gr Carb pieces are half md including r min. no fl within that zone but amph (b) in clsts. (700 cps) followed by a ~10 cm zone of Glim (mass).</p> <p>@20.9 m - probably a former cavity filled with mass fl and soft gr min probably chl occurs more often within that unit.</p> <p>@10.14 m ~8 cm Carb-rich clay. --> fit gouge?</p> <p>@27 m - piece of brc dol-Carb (clsts ~1 cm) together with Glim sul clsts in a gdmass of gr and pk v.f.g. material. the gr is ap, M-Carb is pk.</p> <p>@29.20 m - fol ~60° CA</p> | | | | 500-700 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>18.62 to ~20 m - there is a lot of broken core, always at an angle of 90° CA could be zone of core loss and flt? side note: brittled zone at 19 m 90° CA, drillers?</p> <p>10.40 to 11.10 m - ~800 CPS ~27 m - ~850 CPS</p> <p>50.32 to 50.70 m - vn (lense?) of fl (~70-80%) and v.f.g. dol-Carb x-cut through. together with fl the r min occurs. the dol-Carb has patches with iron (hydro)oxide and along cracks fl also. ctc fl bnd to main unit is sharp and around 60° CA.</p> <p>@53. 80 m - is a qtz-fl-sul-chl vn x-cut through or healing an old crack?</p> <p>55.46 to 55.69 m - a lot of iron (hydro)oxide and brittled Carb. could be a flt zone?</p> <p>@67.5 m - fol ~90° CA</p> <p>@67.80 m fl bnd with no? r min in it. around 2.5 cm thick cut by v.f.g. Carb angle TCA ~35°. ctc is not sharp. From 69 m down ~ 800 CPS ~68 to ~78 m around 1000 CPS</p> <p>@ 75.20 m clst or vn of p lt ol-gr dol-Carb with unknown gy -min, size around 0.5 mm.</p> <p>76.14 to 76.26 m - is a zone of mass iron (hydro)oxide, r streak, rusty colour.</p> <p>@85 m there is a ~50 cm zone of pale ol-gr dol-Carb, v.f.g. with discontinuous ctc to Carb around. it is f.g. ap gdmass with blebs of fl and minor sul, bigger up to 2 mm frags of pale y dol-Carb occur commonly.</p> <p>--> intrusions with pale y clsts of M-dol are always? in gdmass of ap, M-dol and fl blebs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>~91.5 to 95.0 m - dk red min, lim (iron hydroxide --> occurs on frags outside of intervals but is less abnt and lack the patchyness) in patches and on frags. - no ap - y, up (dominant @ 91.75 m) to 5 mm clsts of dol-Carb - trace sul - gdmass gr v.f.g. dol-Carb.</p> <p>~96 to 107 m - lots of dol-Carb clsts (pale y) in rock --> new litho? or maybe old flt zone? vn swarm?</p> <p>97.5 to 97.7 m - zone of ol M-Carb, v.f.g. with itsl patches of pk min (bsn?), fol ~ 30° CA.</p> <p>99.89 to 99.98 m, 101.83 to 102.30 m - is a brc with clsts up to 5 cm. Glim and pale y M-Carb are the clsts. minor ap and fl gdmass. --> clst dominated. ctc is sharp, minor sul occur.</p> <p>101.3 to 101.7 m, @104.7 m, @100.5 m - are some intrusions like above but clsts are only up to 1.5 cm and it is dominated by gdmass.</p> <p>gdmass is typically gr-gy (ap?) --> especially from 104.50 to 113.60 m! mostly mass, mottled text between 'smear/streaky' sections and ap sections.</p> <p>late stage lt ol-gy Carb vns common throughout, significant at 104.10 (cuts core at low angle TCA with undulatory cts), and many from 115 to 125 m (at least every half m).</p> <p>pale y ("y-gy") dol grains common from 107.50 to 110.50 m, usually in bnds (poorly to well sorted) up to 8 mm across, commonly ap associated (up to 50% ap).</p> <p>105 to 105.77 m - modly bnd along CA (wavy), v.f.g. stringy bnds --> associated with later stage Carb? Some itsl r phase (bsn? trace). Mineralization: bsn?</p> <p>hem (or other r Fe-OH phase) common in frags from 106 to 110 m. mineralization: hem.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>fl-rich zones found every 20-100 cm, pockets/clusters up to 5 cm (20-30% locally) or itsl up to 10 cm (<5%). mineralization: fl.</p> <p>@ 108.90 m - 'lt-r' (so pkish) blotches next to pale y dol bnds in ap-rich gdmass, 1-2%.</p> <p>@ 115.63 m - 3 cm fl bnd, dense, 80-90%.</p> <p>116.60 to 118.50 m - predominantly mass lt ol fy ap rock (late stage Carb) with trace diss fl and common fracs (perpendicular TCA) infilled with fl: (~10 frac/10 cm).</p> <p>@ 122.45 m, 3 cm brc zone with 5% fl clusters and 5% py.</p> <p>c.g., more homo and equigranular sections more common below 122.50 m, down to 130.60 m, usually <15 cm long, fl up to 5% here.</p> <p>124.20 to 125.20 m - brc zone, first ~60 cm is v.f.g. mtx-supported, clsts all <5 mm and consists of dol or fl, gradational upper ct, last 30 cm has sharp cts, clst-supported, clsts ang to sub-rnd and mostly dol, 5-10%, bio/phl, not much fl, ap-rich mtx?</p> <p>125.50 to 127 m - mod bndg throughout - these are ap stringy/very thin bnd perpendicular TCA and overprinting all mineralization and texts, these continue below but are less common.</p> <p>128.50 to 132 m - many bnds/vns x-cut core at all angles, these are more f.g. than surrounding rock usually <3 cm, commonly look like later stage Carb, more of these bnds/vns from 133.20 to 142 m.</p> <p>138.64 to 139.29 m - diss mag, edges 5-10%, increases up to 40% in centre, mag occurrence continues below 139.29 m (few % locally), still diss, increases at 139.90 and 140.10 m to 15-20% (10 cm bnds) --> these are f.g. and dkr and met bnds. Ends 140.20 m. Mineralization: mag</p> <p>also 5 mm frac from 139-139.20 m infilled with pk-tan dol (30%) gr amph (?) and <1% mol!, qtz >60%. Mineralization: mol</p> | | | | |

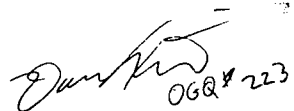
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@ 141.70 m - fl patch/cluster, 15 cm thick, top grades from <5% to >30% near bottom, sharp end. Mineralization: fl. below ~143 m, fl more common 1-5% throughout, most itsl, rock is c.g.</p> <p>142.5 to 146.70 m - abnt f.g. lt ol-gy vns - late stage Carb, mostly bnd (v. thin wavy bnds), these make up >50% of this interval, more continuing below 148 m, host rock now brc, brc increases toward 154 m - some spots just abnt fracs others actual clst-supported brc, most casses fl in mtx/infilling fracs (up to 30%), this trend continues dow to ~156.80 m, 8 cm solid zon of fl at ~156.65 m. (<20%) which increases downwards, from 156.75 m down to 158.50 m, this flc (?) is perv diss throughout up to 5% locly, small fracs still all fl-filled, rare vugs/fracs with chl.</p> <p>148.50 to 150 m - broken core, from first disks, then frac along CA near 150 m.</p> <p>Below 161 m - locly mag-rich zones, diss and f.g., mag up to 20%, these are <5 cm long zones, mage sometimes in fracs instead, continue down to 170.70 m -- every 50-200 cm...</p> <p>165 to 168 m - heavily fracd section again, all fracs infilled with fl and small vugs, core broken from 167.25 to 169 m -- disks, more disks below, but just small isolated sections. intact, competent, mass boring, gr-y rock from 172 to 174.90 m.</p> <p>few % diss fl below 174.90 m.</p> <p>177.75 to 178.75 m - m.g. section, fl diss but larger clusters (up to 20%), increased py (1-2%), @ 178.35 m fl cluster (3 cm) totally replaced by bsn (? or exsolution).</p> <p>179 to 187 m - mostly f.g. - v.f.g. with many late stage Carb vns (sph lt ol-gy lam), a few zones with c.g. dol xtls, occasional dk gy bnds.</p> <p>ibd Glim bnds/frags at 185 cm (2 cm wide --> serp/chl? (soft b-gr-gy)).</p> <p>@186.90 m - (5 cm wide, 50% fl, 30% amph remainder bio/phl jagged/broken cts -->just ctc zone of Glim?)</p> <p>@187.20 m - (3 cm wide bio + chl - soft and gr).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 192.42 | 193.31 | - | | <p>@186.50 m - 1-2 cm wide late stage carb vn running along CA and terminates at fl/Glim frag, within vn is 1 x 0.5 cm og-br resinous softish - mnz?</p> <p>187 to 192 m - mostly m.g - c.g. mass to wkly bnd f.g. patches have ap-rich(?) mtz, coarsest section have fl (+flc exsolution/replacement?) up to 15%, itsl py up to 5% locally, some zones with pale y dol bnds up to 10%.</p> <p>Glim dk gy f.g. mod-str bndg interval is uniform/homo</p> <p>both ctcs sharp with Carb heavily fracd 10-20 cm away, v. jagged edges, fl along rim 10-40% (<1 cm thick). upper is ~ perpendicular TCA. lower is curved 15-50°. CA.</p> <p>dol blebs and thin bnds throughtout up to 10% minor cc.</p> <p>bndg at 193 m = 55° CA</p> | | | | |
| 193.31 | 204.45 | - | | <p>M-Carb brc medium gy (but variable colours throughout) hetero, f.g.-c.g.</p> <p>text/colour/character changes every 50-200 cm, starts out as a clst-supported brc with clst < 1 cm and grade up to 2 cm and more ang (mostly dol) trace fl itsl.</p> <p>switch to f.g. mtz-supported brc then some sections of mass/less to no brc - these are mottled b in places, also intermediate brc (clsts=mtz) in centre and near bottom clst are more rnd and <1 cm mostly dol.</p> <p>some late stage Carb vns cut through unit (not common)</p> <p>197.54 to 197.63 m, 197.85 to 198.20 m - dk gr f.g. mass/non-brc rock these have mag phen up to 3 mm, gr phase? ap (?) up to 20%</p> | | | | |
| 204.45 | 246.20 | - | | <p>M-Carb y and b (mod y and gy-b), mass (--> wkly bnd), blotchy, failly homo, f.g.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 246.20 | 265.67 | - | | <p>sharp upper ctc with brc, ~ perpendicular TCA.</p> <p>y colour = dol. b-gy-p colour = another phase of dol and some chl (gr) at frac and vugs and some fl (more p, increases downward).</p> <p>bndg made evident by b stuff.</p> <p>occasional ibd brc zones (<1 m long) throughout, otherwise pretty homo rock; some frac - nothing major; no significant late-stage Carb vns (only a few rare ones up to 1 cm wide)</p> <p>fl bnds start appearing below 225 m in concentrated bnds (<3 cm wide, up to 50% m.g.)</p> <p>at max 5 bnds/50 cm; where fl present, no b bnds.</p> <p>gradational lower ctc to bsn M-Carb; first occurrence of bsn it is mostly just r-lined vugs (not much there...), in this unit for a few m above ctc (never more than 1% - would be more like 10% if not for vugs; also bsn-rich section from 230.75 to 231.30 m strly bnd, bsn up to a few% and also fl (trace).</p> <p>bndg measurements: @207 m = 45° CA, @219 m = 45° CA, @227 m = 50° CA, @231 m = 35° CA.</p> <p><u>bsn M-Carb</u></p> <p>v. lt gy with mod r bnds, variable text from strly bnd (esp. top few m) to mass with brc (→most common text), variable grain size.</p> <p>rock mod-str bnd from top down to ~249.80 m; bsn bnd start out <1 cm (~1% bsn) and grow up to 10 cm wide (with bsn ~20% locly); a few minor brc zones between bnd - clst = dol with bsn mtx; a few dk gy patches throughout.</p> <p>249.80 to 250.60 m - is almost entirely w mass dol, trace to few % bsn and fl throughout, diss and a few thin stringy bnd.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 265.67 | 284.16 | - | | <p>250.60 to 252.85 m - brc, upper ctc sharp; mass, largely mtx supported with a few ~10 cm sections that are clst supported; clst are all w dol, sub-sub-rnd, <2cm across; mtx is dk gy and still dol and bsn-rich, bsn restricted to mtx (up to 30% locly); late vug/frac-filling fl up to 1% locly, c.g., vitreous, p; clst-supported sections have sub-ang-ang clsts up to a few cm across, similar mtx; rock is overall mod r - bsn-rich - for this section.</p> <p>this transitions to a hetro section of mostly mass w dol mixed with small brc zones and wkly bnd zones (latter two <20 cm long per) bsn is relatively depleted here (compared to rest of interval) - it's diss and frac-filling, few% locly; vugs (<1 cm) formed in dol sections - mostly empty, cc lining; zones that aren't w dol are dominantly dk gry dol, f.g.</p> <p>256 to 256.55 m - bsn-rich zone, brc again, bsn in mtx - f.g. and <20%; rest of mtx dk gy dol; clsts are w-tan dol, <1 cm and 10-40% (increase downwards); fl filling vugs and fracs.</p> <p>256.55 to 264 m - rock is v. hetero, mostly brc; bnd zones also frac and brc; mtx is mostly f.g. dk gy with bsn diss within (varies from 1-10% locly); trace vugs throughout with fl infilling.</p> <p>262.80 to 263.50 m, 264 m to EOH - rock is w, mass; these still look like brc, but clst-supported and mtarix is w-tan (similar dol as clst?, ap-rich?) trace bsn in mtx.</p> <p>sharp lower ctc, flt? looks like recemented gouge... ctc at 25° CA</p> <p>bndg @247 m = 40° CA, @260 m = 50° CA</p> <p><u>amph Glim</u> br to dk gy and w with b grains throughout (especially bottom 6-8 m); mod-str bnd/fol; f.g.-c.g.; itsl cc throughout, 10-50%. first 20 cm brc, v. poorly sorted, looks wkly bnd, b-gr min throughout (looks like an amph, but really soft - chl?), broken dol bits up to a few cm. next ~1 m is thinly bnd/fol - str with a few dol/Carb clsts up to 5 cm across, (these are wrapped by the Glim bndg).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>~266.90 to 273.30 m - rock is v.c.g. mostly mass; bio/phl xtls (pegmatitic even) up to 3 cm across; py euh up to 3 mm, diss and f.g. py itsl/filling fracs, up to few % locky --> dk grey min amongst bio and cc in some places (amph?), up to 20% locky.</p> <p>268.50 to 268.85 m - ibd M-Carb, w, mass, >90% dol, sharp etc, some frac with cc and py infilling.</p> <p>273.30 to 275.80 m - ibd cc-Carb/cc-rich sections; 5-35 cm long; cc 80-90%; b amph (?) diss throughout (up to 20%) f.g.</p> <p>273.30 m to EOH - rock is mod-str fol; variable grain size with patches solid dense packed bio (up to 25 cm, >95% bio)</p> <p>272.50 m to EOH - b min ever present (likely amph, 60-120° clvg); these are f.g. (majority <2 cm) and <20% down to ~280 m; increase in size and abundance to end (up to 3 cm and 40% locky!). --> final 1.5 m is homo, bndg fairly uniform, consistant % of bio/cc/amph, "poorly sorted" throughout.</p> <p>bndg: @266 m = 45° CA, @283.50 m = 55° CA</p> <p style="text-align: center;">EOH</p> | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|---------------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 536340.98 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 20, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6311978.31 | Rig Type: Discovery I | Date Completed: Jul 23, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087783 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 220.37 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: D. Smith, A. Peter-Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | ~3.18 | - | | <p><u>OVB and bldrs and unconsolidated material (no fizz with hcl)</u></p> <p>all carb with fl and one r siltstone? no starter block. only a block at 5.13 m. so had to work back. 3.18 is approximate.</p> | | | | |
| ~3.18 | 24.64 | - | | <p><u>F-Carb with perv flc</u></p> <p>unit is v.f.g, ol-gy (5Y 4/1). this colour is dominant throughout unit with subsections of lt ol-gy mixed in (5Y 6/1). mineralization: flc (r-br, cr-bg, perv), dol, fl, py (minor throughout interval, patches of equant grains). two types (or settings) of p fl are pressed.</p> <p>1 - filling healed fractures. flc appears to be mostly flc with little other mins mixed in. frags infilled with fl are occasionally occurring and on the order of 1-2 mm. they are not the dominant fl phase. orientations vary and cross each other. Excellent example @10.50-10.80 m. surfaces of open frags do not display druzy fl or if so it is minimal, 2 - as patches (these textures give the rock a mottled or psd-brc appearance and are the dominant phase of flc) , bnds (irregular orientation generally), and/or blebs. this fl has common r-br to cr-br mins (flc) within and strangely associated (sometimes flc>fl giving a dominant r hue to areas that appear fl). r br.cr-br blebs also on there own as well they appear to be perv but it is hard to tell.</p> <p>note: day shift had many troubles drilling in m. they did not understand that 10 ft ≠ 3 m. from start of hole to ~5.13 depth infor is very suspect. doubling of blocks and short runs (<2m) with 3 m blk used no matter what have caused uncertainty in exact depths. hole may be off by several m's, but no way to confirm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 24.64 | 38.16 | - | | <p>@13.60 - overall colour lightens to a light ol-gy (5Y 6/1). above this depth fl is mor patchy, below 13.60 m (i.e. >13.60 m) is more consistently present as blebs or fine diss and strly associated with cr-bg min. fl patches still occur and still contain abnt flc's.</p> <p>@~15 m - the 'wavy' f.g. cr.bg coloured diss begin to occur as a more dominant min phase and continue through end on interval to end to interval up to 5% @ 15.20-15.37 m. very patchy at 16.50-16.65 m and 17.40-17.60 m. later stage finer grained dykes/vns occur occasionally throughout entire interval.</p> <p>15.50 to ~15.80 m - increased core frac, potential flt.</p> <p>18.33 to 18.75 m - increased core frac, flt? followed by 15 cm of massive fl (>80%). lim/hem? appears on frac surfaces over last 4 m of interval. overall lt ol-gy material (last half of int) is more heterogeneous than the ol-gy (first half). overall interval fabric orientation is not consistent and varies from near parallel TCA to ~40° TCA.</p> <p><u>brc clsts with F-Carb mtx</u></p> <p>mtx: v.f.g., grades from lt ol-gy (5Y 6/1) to ol-gy (5Y 6/1), weak flow direction 55° CA @ 28.93 m, few f.g. euh py infill frac space, few - no mag, fl occurs in common 1-4 m or 1x2 blebs or 1 cm wide wavy ctc bnd or infills fracs, thin infill fracs common, few mm scale mag diss, 6% ap.</p> <p>clst 1. dusky y (5Y 6/4), sub-ang, commonly 1 x 3 in size, sub-prismoidal, example location @ 26.50 m, most abnt clst type.</p> <p>clst 2. m.g., v. lt gy (N8), sub-ang, sub-discoidal, commonly 0.7 x 1 cm up to few 3 x 4 cm, example location @ 25.08 m.</p> <p>clst 3. m.g., gy-og (10YR 7/4), ang, sub-discoidal, commonly 0.6 x 0.8 cm, example location @ 28.20 m, less common than other clsts.</p> <p>clst 4. f.g. - m.g., grayish blk (N2), sub-ang, sub-prismoidal, commonly 2 x 4 cm, abnt bio, example location @ 36.35 m.</p> <p>25.35 to 25.44 m - no clsts, v.f.g. ol-gy (5Y 6/1), common diss fl, frac infill with common v.f.g. py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 38.16 | 89.13 | - | | <p>27.35 to 27.68 m - common fracs with fragmented core.</p> <p>30.40 to 31.80 m - same v.f.g. ol-gy as mentioned (in 25.35-25.44 m interval) with undulating vns with v.f.g. py at 31.28 m.</p> <p>@32.65 m - fl bnd 0.6 cm wide is 60° CA.</p> <p>29.75to 30.40 m - common fl infill frac x-cut clsts.</p> <p>36.50 to37.50 m - dk gy vn/frac, undulating with f.g. py.</p> <p><u>F-Carb with perv fl</u> v.f.g. ol-gy (5Y 4/1) common, occationally grades into lt ol-gy (5Y 6/1), abnt v.f.g. pale ol (10Y 6/2) 1 cm vns, flc diss abnt both r and p, common mm scale elongate vugs, infilled vug with fl and py, bleb and frac filling fl abnt, common frac, mtx dol grain size commonly grades to ~2 mm c.g., common diss py 40.67 m , (lim/hem Fe-ox) along frac, 6% ap (muv light).</p> <p>@41.80 m - two infilled vugs 5 cm apart.</p> <p>43.55 to 43.85 m - dol grain size increases ~2 mm.</p> <p>45.50 to 46.80 m - abnt frac, core in pieces.</p> <p>47.00 to 47.35 m - lim/hem abnt in fracs.</p> <p>48.15 to 49 m - str bndg @ 40° CA same direction as fl infilled fracs.</p> <p>49.05 to 49.95 m - abnt fl infill frac and then fracd again for core to be in pieces with lim/hem within cracks, v.f.g. pale ol Carb and fracs parallel 50° CA.</p> <p>@50.70 m - qtz and fl vn 0.8 cm wide @ 45° CA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>49.70 to 51.75 m - abnt diss flc, infill fl frac and v.f.g. pale ol Carb vns perpendicular, parallel fracs (jointing) 2 cm apart at 50° CA.</p> <p>52.50 to 56 m - vugs filled with fl common.</p> <p>56.13 to 58.15 m - long moderate gr-y to pale ol, 5 cm wide, undulating etc.</p> <p>67 to 68 m - vuggy dol infilled with fl and chl and qtz, vugs ~1 cm wide.</p> <p>70.50 to 71.50 m - increase in fl abnt, flc min r-br and p, blebs.</p> <p>common fracs with (lim/hem Fe-ox), few chl in vuggy dol at 75.40 m</p> <p>>79.55 m grain size is more variable, dol c.g., fl infill fracs common, common diss f.g. py in fracs.</p> <p>@82.15 m - v.f.g. bio clst 3 x 4 cm - ang.</p> <p>@83.16 m - pk fsp patch with fl f.g.-m.g.</p> <p>80.75 to 83.50 m - abnt thin 4 mm randomly oriented frac, v.f.g. and mg euh py in fracs.</p> <p>@86.25 m - qtz vn deformed and undulating etc, som qtz infilling randomly oriented fracs.</p> <p>v.f.g. bio frac Carb with euh f.g. py, diss fl common bu not abnt.</p> <p>etc with Glim is fracd and brc over 30 cm.</p> <p><u>Glim with dol and fl filled voids</u></p> | | | | |
| 89.13 | 89.92 | - | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 89.92 | 94.85 | - | | <p>v.f.g., aph, grayish blk (N2), ~2 mm circular voids concentrically mineralized with v.f.g. white dol and v.f.g. p fl, 3% voids, mod fol Glim frac surrounding rocks.</p> <p><u>F-Carb with perv fl</u></p> <p>f.g. med lt gy (N6) to pale ol (10Y 6/2), abnt brc from Glim, clsts 0.4 to 5 cm long, frags filled with v.f.g. bio and few euh py and few vugs filled with dol and qtz, common-few diss f.g. fl, 6% ap (with UV light).</p> <p>94.35 to 94.65 m - Glim vn ~7 cm wide custs through Carb, sharp ctc in various directions.</p> | | | | |
| 94.85 | 96.67 | - | | <p><u>Glim with dol and fl filled voids</u></p> <p>Upper ctc = 45° CA sharp lower ctc = 65° CA semi sharp</p> <p>v.f.g., aph, grayish blk (N2), 2-4% ~2 mm circular voids concentrically mineralized with v.f.g. white dol and v.f.g. p fl centres, str fol, few f.g. euh py, common brc Carb sections.</p> <p>@96.50 m fol = 35° CA with dol bnds ~2 mm wide ibd Carb. frags through Carb sections common and brc, Carb is same as surrounding Carb, @ 95.13-95.31 m and 95.78-96.02 m.</p> | | | | |
| 96.67 | 132.23 | - | | <p><u>F-Carb</u></p> <p>v.f.g., pale ol (10Y 6/2) to med lt gy (N6), aph, common fig diss fl, few fig diss py, mod-weak bndg, few vugs fill with pk fsp + fl, more homogeneous than previous Carbs, few frags with limo/hm, ~6% ap.</p> <p>ibd Glim</p> <p>v.f.g., grayish blk (N2), str fol, low min, fracd ctc, fol + ctc = 25° CA, Glim at 101.33-101.53 m</p> <p>@103.20 m - infilled 0.4 cm frac with pk fsp, fl, qtz.</p> <p>@104.98 m - f.g. (limo/hm) in frags Fe-ox.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 132.23 | 161.02 | - | | <p>@108.58 m - 5 cm brc from fracs infill with dol and py and fl, v.f.g. tan min around brc Carb + dol grains.</p> <p>111.80 to 112.08 m - 20% diss fl (increased) section.</p> <p>@112.32 m - frac with (limo/hm) Fe-ox.</p> <p>112.50 to 113.13 m - pale pk diss min grads into Carb.</p> <p>ibd dk greenish gy (5GY 4/1) Carb, f.g., massive, few f.g. py, sharp ctcs = 50° CA, @ 113.92-114.10 m.</p> <p>@114.30 m - 15 cm long frac with (limo/hm) Fe-ox.</p> <p>117.59 to 118.83 m - 0.3 cm wide joint fracs 6 cm spacing, infilled with micatious chl.</p> <p>@124.55 m - frac with f.g. euh pych.</p> <p>126.95 to 132.23 m - m.g. dol with v.f.g. bio and mafics bwtween the dol grains, few diss fig end py, common f.g. diss fl, common v.f.g. dusky y (5Y 6/4) to lt ol-gy (5Y 5/2) vns.</p> <p>flc Carb m.g.-c.g. dol, lt gy (N7) to yellowish fy (5Y 7/2) massive to v. weak bndg, 20-30% r-br and p F-Carb ~1 mm grains diss abnt around dol, more r-br than p, few fracs with f.g. bio and other frac with f.g. py, common v.f.g. dusky yellow to lt gy vns, few v.f.g. diss bio, 5% ap.</p> <p>132.63 to 132.83 m, 133.48-34.02 m, 134.40-135.15 m, 135.55-136.35 m - v.f.g. dusky y to lt ol-gy vns with undulating ctc and x-cut everything.</p> <p>@143.80 m weak bndg = 50° CA</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 161.02 | 164.63 | - | | <p>141.08 to 145.75 m - F-Carb are less diss and more blochy + bnd around c.g. 4 mm dol.</p> <p>145.75 to 146.31 m - v.f.g. dusky y to lt ol-gy vn with smeared p + r-br streaks, sharp upper ctc = 18° CA + lower ctc = 30° CA.</p> <p>145.45 to 148.10 m - common <0.5 mm randomly oriented fracs causing brc, v.f.g. bl/gy (bio?!) infilling fracs.</p> <p>152 to 154 m, 154.15-155.60 m - c.g. dol, blochy F-Carb around dol, brc of grains.</p> <p>156 to 161.02 m - common fracs, common brc, common segregation of mins + blocky text, v.c.g.-m.g. dol, weak bndg, 1-35% F-Carb. lower ctc = 55° CA</p> <p><u>Glim with abnt cc vnlets</u> v.f.g., grayish bl (N2) bio mtx, v. lt gy (N8) f.g. cc, common diss f.g. py, Glim brc cc vnlets common dol vns.</p> <p>@162.60 m - 15 cm wide semi-brc dol bnd = 65° CA</p> <p>lower ctc is brc and gradual.</p> | | | | |
| 164.63 | 165.73 | - | | <p><u>M-Carb or F-Carb</u> f.g., greenish gy (5GY 6/1) blended + smeared patches of gy + pk mins, few f.g. bio, few f.g. pk fsp, few fig r-br (F-Carb?)</p> <p>lower ctc = 18° CA undulating.</p> | | | | |
| 165.73 | 167.62 | - | | <p><u>qtz fracd with py and bio</u> f.g., med gy (N5) hues of brownish gy (5YR 4/1), no HCL rxn, hardness ~ 6 (but harness could be compromised from abnt fracs) common fracs, abnt <0.5 mm fracs with v.f.g. bio and py, gradually more bio at end of unit, no cleavage.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 167.62 | 172.90 | - | | <p>167.42 to 167.62 m - gradually increasing in brc from abnt bio.</p> <p><u>brc zone</u> perv f.g. grayish blk infilled fracs causing brc abnt clst, angular clsts, cm scale clsts.</p> <p>167.62 to 167.85 m, 167.99 to 168.45 m, 168.82 to 169 m - M-Carb or F-Carb vn. f.g., lt br-gy (5YR 6/1) to lt ol-gy (5Y 6/1), undulating ctc.</p> <p>167.85 to 167.99 m, 168.45 to 168.82 m - qtz fracd with py and bio (as described in 165.73 to 167.62 m), one prismoidal ang chloritized clst, Fe-ox along cracks at 167.96 m, med gy to br-gy.</p> <p>169 to 169.14 m - pkI text; gy-blk (N2); c.g.mafic min; bio + cc mtx.</p> <p>169.14 to 169.86 m - abnt f.g. gy-blk (N2) vnlets; abnt y-gy (5Y 8/1) 1 mm vnlets; abnt brc clsts; clsts: 1 - v.f.g. layering, 2 - f.g. bio, 3 - f.g. dol.</p> <p>169.86 to 170.01 m, 170.14 to 170.17 m, 170.28 to 170.34 m, 170.38 to 172.41 m - m.g. lt gr-gy Carb; f.g. Fe-ox min few; common f.g. euh py; abnt fracs from f.g. bio.</p> <p>172.41 to 172.90 m - f.g. gy-gr (10 GY 5/2); brc clsts; no HCl rxn; fine layered clsts; chl; abnt qtz vnlets.</p> | | | | |
| 172.90 | 173.95 | - | | <p><u>cc-Carb</u> m.g. y-gy (5Y 8/1); suc ; yes HCl rxn; few mins; v. few f.g. bio; v. few f.g. fl; mass; Carb is intruding surrounding litho; undulating + brc ctc; 3% ap (under UV).</p> | | | | |
| 173.95 | 179.82 | - | | <p><u>Glim brc zone</u> v.f.g.; gy-blk (N2); brc; common f.g. py; abnt f.g. cc vnlets; Glim is being brc by f.g. cc vnlets. Pale ol v.f.g. M-Carb or Fe-Carb vns and 5-10 cm wide suc cc-Carb; mass to mod fol; few f.g. fl.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 179.82 | 182.74 | - | | 173.95 to 174.80 m - f.g., gy-gr (10 GY 5/2); brc clsts; no HCl rxn; fine layered clsts; chl; ang ctc from clsts. <u>cc-Carb</u> m.g. y-gy (5Y 8/1) to lt gy (N7); suc; weak bndg; common f.g. mafics + bio; 3% ap (under UV). | | | | |
| 182.74 | 189.90 | - | | <u>Glim brc zone</u> v.f.g.; gy-blk (N2); brc; common f.g. euh py; Glim is being brc by cc vnlets + cc-Carb vns, three differen clsts; common mag in clusters 185.66-186.15 m; abnt qtz brc clsts and three 1-3 cm qtz vns. clsts: 1 - qtz, med gy to br-gy, c.g., 2 - Glim, v.f.g. bio; dk gy (N2), few f.g. euh py, 3 - qtz?!, >6.5 hardness, common f.g. py, no cleavage, med b-gy (5B 5/1) @ 188.10 m f.g. diss fl over 2 cm. 186.27 to 186.60 m, 187.02 to 187.40 m - cc-Carb streamers; m.g., v. lt gy; suc; few frags; few py; few Fe-ox; common bnds of bio clsts; few mag. undulating ctc | | | | |
| 189.90 | 191.80 | - | | <u>v. lt gy cc-Carb</u> m.g.; v. lt fy (N8); suc; ~3% ap; mass; few f.g. bio clsts bndg; 40 cm section f.g. bio clsts abnt + randomly oriented; few frags. 190.70 m sng vio clsts = 55° CA | | | | |
| 191.80 | 196.91 | - | | <u>Glim brc by cc-Carb</u> v.f.g.; gy-blk (N2); brc; abnt cc-Carb vns causing brc; few med bl-gy (5B 5/1) f.g. qtz clsts; common frac ~0.5 mm wide infilled with cc; few euh f.g. py; few f.g. mag. | | | | |
| 196.91 | 207.10 | - | | <u>M-Carb</u> m.g. y-gy (5Y 8/1) to lt gy (N7) dominately do; few mixed cc grains; few frags; 4% ap; few f.g. mag; abnt brc Flim with cc vnlets. 198.65 to 200.13 m - abnt frac (one dominant) with f.g. bio; 10 cm wide f.g. vio Glim. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 207.10 | 209.65 | - | | <p>200.18 to 201.02 m, 203.37 to 204.90 m, 205.30 to 205.65 m - brc Glim; v.f.g.; gy-blk (N2); ang 0.5 x 0.5 cm to 1 x 2 cm clsts; common f.g. mag; 2 % ap ; abnt blk f.g. amph.</p> <p>gradational lower ctc</p> <p><u>cc-Carb with abnt bio</u> m.g.; lt gy (N7) cc; gy blk (N2) f.g. bio; abnt frac, common f.g. euh py; ~40% bio. lower ctc = 67° CA</p> | | | | |
| 209.65 | 215.87 | - | | <p><u>Glim</u> f.g. vio; med dk gy (N4) to gy-blk (N2); mod-str fol; abnt f.g. cc; common f.g. blk amph.</p> <p>211.65 to 213.03 m - ~65% dol; few f.g. fl ; abnt circular blk min; abnt bio from Glim.</p> <p>215.03 to 215.29 m - 89% Mg/Fe dol; 4% mafics; 3% py; 2% aph ap (under UV); sharp ctc; upper = 60° CA, lower = 90° CA</p> | | | | |
| 215.87 | 217.06 | - | | <p><u>med b-gy (5B 5/1) layered clsts</u> f.g. bio + m.g. blebs cc between amph; common m.g. euh py (+ possible other sulfides as inclusions as per Patrik's report) → up to 2 cm amph xtals, long and deformed; 5-8 cm sections of lt gy b m.g. suc cc-Carb str fol; clsts = sub-prismoidal + rnd.</p> | | | | |
| 217.06 | 218.17 | - | | <p><u>Glim</u> ~40% f.g. bio; 35% f.g. cc; 0.5 to 1 cm med b-gy clsts; few 1 -2 cm wide lt ol-gy v.f.g. dol vns.</p> | | | | |
| 218.17 | 220.37 | - | | <p><u>cc-Carb</u> f.g.-m.g. med lt gy (N6); common f.g. blebs + frac infilled ; common v.f.g. chl bio along frac; common cc 0.5 mm blebs; 5% ap (under UV) few diss sulfides.</p> | | | | |
| | | | | EOH | | | | |

GEOLOGICAL DRILL LOG



| | | | | |
|---|------------------------------------|-------------------------------------|---------------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 536142.09 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 24, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312085.12 | Rig Type: Discovery I | Date Completed: Jul 25, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 102.18 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich, D. Smith | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 7.10 | - | | <p>Ovb</p> <p>~5.50 to 7.10 m - start of int hard to contain, brc text not same as interval below, 6.5 to 7.1 m - is various lithos suggesting we may be in Ovb + therefore brc in from bldrs.</p> <p>brc Fe? Carb with f.g. bio + f.g. carb mtx; sub-ang; sub-prismoidal; Fe-ox common along frac @6.5 to 7.14 m - abnt frags - same driller rnd.</p> | | | | |
| 7.10 | 46.57 | - | | <p>F-Carb with perv fl</p> <p>interval text-wise is v. hetero (mottled, bnded, brc).</p> <p>v.f.g.; lt ol-gy to ol-gy (5Y 5/2); [abnt homo, (the vnlets are homo not the entire interval), aph, v.f.g. lt ol gy vnlets x-cutting in random orientation]; abnt frags infilled with fl; common f.g. euh py (+ other sul) trace f.g. ap; fl in frags more dk p than blebs; Fe-ox common in frags; ~15% fl, trace mag, again two types of fl present. 1 - fl- filling frags + vugs, 2 - fl - blebs, bnds & patches, strly associated with r-br fics, gives areas appearing as fl as pk-r hue, the r-br min occurs often throughout interval.</p> <p>Regarding fl above: 1 - cuts, 2 - therefore later.</p> <p>box CPS = ~400 to 600 CPS</p> <p>@10.50 m - fl bndg = 45° TCA</p> <p>5.5 to 16.60 m - abnt brittle frags; common fl infill.</p> <p>13.80 to 14.60, 16 to 16.95 m - c.g. Fe-dol; common v.f.g. lt ol-gr vns cutting.</p> <p>21.15 to 21.40 m - long frac with Fe-ox infill.</p> <p>@21 m - <2 m b xtl (amph?), trace in unit.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 46.57 | 61.22 | - | | <p>@~20.20 to 20.75 - peppered text v.f.g. dol grains with its fl, colour dkr for interval.</p> <p>@23.60 to 24.10 m - abnt ap section (visible in UV light), ~40% from photo. @24.30 to 24.39 - ~40% ap. @60.51 to 83.51 m - common ap gradational bnds, 5-50 cm wide 5-80% ap.</p> <p>~28.50 to ~35.00 m - fl dominates as patches with only minor diss + itsl fillings. Patches are irr + up to 15 cm in size. fl appears to be largely free of r-br mins in comparison with rest of interval - v. p. overall colours of sub-interval lightens.</p> <p>@33.5 to 34 m - increased fracturing (possible flt?).</p> <p>@37.40 m - patch of r min (flc?) with <0.5 m bl-gr grans (amph?). @40 m abnt healed fracs followed by patchy fl (+ minor blebs) until end of interval.</p> <p>good bndg measurement at 13.20 m (45°) TCA.</p> <p>end of interval has sharp ctc + fractured 90° TCA, also defined by decrease in RA and colour change.</p> <p><u>dol-Carb (M-Carb?) with common fl</u> common fl, minor sulphide trace r-og min, minor apa.</p> <p>v.f.g., pale gr-y (10Y 8/2), colour is fairly consistent over unit. fl is present in minor patches and blebs; overall there is less fl than above interval + lacks r-br min as described in previous interval, therefore fl appers more associated with fl 1 then fl 2 as described in previous interval.</p> <p>y colour/ hue is from perv y-bg min "overprint" on cr - min (dol?) gdmass, v. odd looking text + relationship suls persist throughout unit. RA 200-250</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 61.22 | 74.40 | - | | <p>@50 m - qtz in healed fracs, most healed fracs in unit are with fl, some apa on fracs.</p> <p>54.90 to 56.75 - fl decrease in content to trace. interval becomes homo but mild patchyness present.</p> <p>56.75 m to end of interval (61.22 m) - text hetero with brc (57.00 to 57.40 w <0.5 mm dol clsts, bnded ~35° TCA), color variations + fl patchyness.</p> <p>@60.25 to 61.22 m (end of interval) - r-og min appears in trace amounts (flc?).</p> <p>@~61.64 - is patch of next interval, unclear if clst or band (r-og-br). lower ctc appears sharp but may be gradational + is defined by rapid decrease in flc corresponding increase in r-og mineral (flc?, prs/bsn).</p> <p><u>prs/bsn (flc) dol-Carb</u></p> <p>f.g., abnt frac, (v. broken interval, 1-2% apa (off w in UV - light); present in fracs and as mottled blebs ~1 cm long), brc is dominant text of interval with same bndg evident, brc clst size varies widely from several mm to several cm, clsts are cr coloured (lt gr-gy according to munsil which is complete bullshit, (5GY 8/1). there is no gr. clsts are dol + vary in grain size.</p> <p>flc are r-og (munsell mod r-br 10R 4/6) with a varied distribution over unit. they are f.g. but at first glance look c.g. due to concentrations of them. they are dominatly present as itsl fillings between clsts or as infill in most healed frac. they occur only minorly within clsts or as bnds.</p> <p>fl is present + associated with flc but is minor in interval + concentrations are localized, fl also present more over first half of interval, increase fl @65.00, 65.05 (odd looking bnd of rnd grains (1-3 mm) with dol mtx), 72.30. trace sulphides, amph? flc is most intense at 65.40 to 67.40 m.</p> <p>62.15 to 63.50 - abnt heal fracs with r-br min within (likely lim and or flc)</p> <p>@64.30 - there is ~3 cm healed flt gauge or so it would appear. are clsts within. fisses as if cc but is dull br + may be f.g. dol. presence of clsts may suggest zone of increased partially healed fracs. this 3 cm patch is followed by ~5 cm of smoky qtz, followed by ~2 cm of Carb with odd br min (~1 to 4 mm). ctc of all 3 is ~52° TCA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 74.40 | 76.56 | - | | <p>@ ~65.90 to 66.00 - v. intense r-og-br colour (ie flc) 80% locly. interval is vuggy. flc still itsl with some <0.5 cm dol clsts evident. vuggyness is not common to overall unit but appears locly over first half of interval.</p> <p>@66.00 to 67.43 - ~25% r-br (bsn) flc; f.g. flc between c.g. dol; ~4% p flc f.g. diss; few 4 mm wide qtz vns; v.f.g. met blk-b pockets; rich in sul <1 cm; xtlN.</p> <p>note: drillers pulled tube at 68.45 m</p> <p>@67.43 to 69.55 m - brc, common 2 mm wide qtz vnlets x-cutting everything; bsn locly bnded; abnt fracs; clst supported.</p> <p>@69.55 to 70.40 - less mineralization; few flc; abnt fracs; xtlN; common chl in fracs.</p> <p>@70.40 to 70.90 m - mod-str bndg; 7% r-br flc f.g. str bnd; 2% p flc less commonly bnded.</p> <p>@70.90 to 71.51 m - c.g. dol abnt; less mineralization between dol grains; ~3% r-br fl, trace p flc few sul (po).</p> <p>@71.51 to 72 m - v.f.g. dol, + flc; meshed together; aph grain boundaries; v. dusky p (5 RP 2/2) to med dk gy (N4); str bndg.</p> <p>@72.50 to 72.85 m - abnt fracs + core pieces common mm scale qtz vnlets.</p> <p>@73.60 to 74.40 m - frac infilling w/ f.g. bio abnt; c.g. dol; flc less common; less mineralization; few f.g. diss po (+sul).</p> <p>gradational lower ctc with f.g. vnlets of Glim.</p> <p><u>Glim</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 76.56 | 77.00 | - | | <p>f.g.; gy-blk (N2); 55% bio; mod fol; abnt m.g. euh py (+ other sul); abnt cc vnlets intermingled; common dol vning causing str bndg; c.g.-m.g. dol; top ctc dol is mottled, middle of interval bnded.</p> <p>@75.26 to 75.56 m - v.f.g. ol gy (5y 4/1) dol-Carb (4) vn; str bndg; avg 40 CPS higher than surrounding; smeared p brused colour.</p> <p>sharp ctc = upper=45° TCA, lower = 35° TCA</p> <p><u>dol-Carb</u> m.g.; lt gy (N7); xtl; few f.g. diss py; mass; few f.g. bio along fracs; trace apa 40 cm section of cc-Carb ~1 cm itsl v. lt gy (N8) m.g.; surrounding itsl cc-Carb is v.f.g. med b-gy 5B 5/1 dol-carb with abnt f.g. diss mag.</p> | | | | |
| 77.00 | 77.42 | - | | <p><u>cc-Carb with flc vn</u> m.g.; v. lt gy (N8); bnded; common f.g. bio vning; 9 cm wide v.f.g. flc vn with rnd c.g. cc rip-up grains; mod r-og to mod r-br (10R 4/6) v.f.g. med b-gy mag-rich dolomitic-Carb at the last 9 cm.</p> | | | | |
| 77.42 | 79.49 | - | | <p><u>dol-Carb</u> m.g; lt gy (N7); xtl; few diss f.g. py; mass; common f.g. bio along fracs; trace apa.</p> <p>@78.22 to 78.30 m - v.f.g.; ol gy (5y 4/1) dolomitic-Carb (4) vn; str bndg; smeared pk-br; with f.g. bio + m.g. py along edges.</p> <p>@78.78 to 79.05 m - brc WR clsts from f.g. bio Glim vns; v.f.g. diss py; finger vning into Carb.</p> | | | | |
| 79.49 | 82.35 | - | B | <p><u>Glim brc WR</u> v.f.g bio rimming brc WR; ang WR blocky ~1-5 cm wide; common f.g. euh py along bio vns; 7 x (5 to 15 cm) m.g. suc lt gy-pk cc-Carb itsl vns.</p> <p>Sharp lower ctc = 85° TCA</p> | | | | |
| 82.35 | 85.04 | - | | <p><u>cc-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 85.04 | 102.18 | - | | <p>m.g.; suc; med gy (N5); speckled with mins ~10% apa; 10% mag; 15% bio; 65% cc; common bio vning.</p> <p><u>Glimmeritized WR</u> greenschist facies; m.g.; med b-gy (5B 5/1); mod bnded; abnt m.g. amph; abnt chloritization; abnt randomly oriented dol vns 4 mm wide; common f.g. euh diss py; chl along fracs.</p> <p>85.04 to 85.52 m - 90% f.g. bio surrounding itsl cc with abnt brc; apa bnd 5 cm 5%.</p> <p>94.20 to 96 m - abnt fracs + brc of WR with f.g. bio, cc, + py.</p> <p>95.30 to 95.44 m - m.g., w, xtl n dol-Carb few/low mineralization.</p> <p>96 to 97.38 m - Glimmerized amph; m.g., dkr gr-gy (5GY 4/1); poikilitic; 30% cc, 35% bio (chloritized), 35% amph.</p> <p>97.38 to 97.67 m - itsl dol-Carb, c.g. med gy tan colour; brc.</p> <p>99 to 102.18 m - common f.g. blochy + vn filling diopside.</p> <p>100.83 to 100.88 m - qtz vn, gradational lower ct, abnt brc surrounding.</p> <p>EOH</p> | | | | |

GEOLOGICAL DRILL LOG



| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 536142.09 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 25, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312085.12 | Rig Type: Discovery I | Date Completed: Jul 27, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.71 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 117.00 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -65° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 6.83 | 54.30 | | | <p>F-Carb</p> <p>v.f.g; lt ol gy (5Y 5/2); xtlN; two types of fl: 1 - diss, blebs patches present in mtx (usually associated with r-br flc further down hole), most common, 2 - infilling fracs + vugs + empty spaces; usually associated with m.g. py and occasionally chl + qtz abnt frac breaking up core. common Fe-ox wthg, common v.f.g lt ol-gy homo vns x-cut everything; hetero; itsl apā in higher concentrations <10% around bleb diss fl.</p> <p>5.50 to 8.76 m - fl abnt blebs mass.</p> <p>6.44 to 6.83 m - m.g to c.g, lt gy, xtlN dol-Carb, few to no fl.</p> <p>8.76 to 10.08 m - c.g dol, few sul along frac (gal, py, po, chp).</p> <p>10.08 to 11.51 m - common frac filling fl.</p> <p>13.53 to 16.55 m - common vugs infilled with fl + py + some chl, concentric min bndg infilling vug; brc of Carb. 15.90 to 16.35 m - vug Carb has less diss fl blebs.</p> <p>16.86 to 18 m - abnt fracs causing broken core.</p> <p>18.43 to 18.76 m - locky 85% fl.</p> <p>@18.55 m - bndg is 47° CA</p> <p>20.45 m - appearance of r-br min associated with diss fl, both mins are present in min bndg.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 21 m - fl banding = 45° CA | | | | |
| | | | | 22.84 to 54.30 m - slight pale y hue from v.f.g. min associated with dol; appears patchy; common frags with fl infill. | | | | |
| | | | | 25.93 to 26.50 m - m.g dol; vn with abnt sul pbs + po + py + mag. | | | | |
| | | | | 27.20 to 27.40 m - abnt vugs infilled with fl, diss m.g. euh py, chl. | | | | |
| | | | | 33.25 to 34.34 m - common r-br (flc?) v.f.g min associated with fl, common po + py in frags. | | | | |
| | | | | 34.47 to 34.59 m - m.g. dk gy-b amph (arfvedsonite); speckled. | | | | |
| | | | | 39.20 m fol in fl= 55° CA | | | | |
| | | | | 34.34 to 54.30 m - abnt pale y min associated with dol and commonly fol with surrounding. | | | | |
| | | | | 37.64 to 40.05 m - slightly more brc of clsts with fl filling space. | | | | |
| | | | | 40.05 to 40.40 m - m.g. dol itsl with other v.f.g. lt ol-gy dol; frags infilled with fl and py. | | | | |
| | | | | 41.30 to 42.00 m - abnt brc with few fl; m.g. to f.g. dol. | | | | |
| | | | | 42.55 to 43.00 m - common r-br (flc?) min associated with fl blebs ~20%; common v.f.g., lt ol-gy homo aph vns. | | | | |
| | | | | 47.35 to 48.85 m - few 2 cm wide minized bnds abnt v.f.g. mag + po, dk gy | | | | |
| | | | | 49.10 to 49.20 - common vugs filled with fl + chl. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 54.30 | 84.14 | - | | <p>49.80 to 51.43 m - homo, low minization; lt ol-gy; xtl; few po + fl blebs.</p> <p>52.65 to 54.30 m - f.g. dol with few mass m.g. dol; pale y min increasing; mod min fol in last 40 cm.</p> <p>gradational lower etc.</p> <p><u>M-Carb</u></p> <p>(Expected because of correlation from EC10-027; assays will confirm) CPS values drop by ~90% CPS gradationally, just like ctc is gradational.</p> <p>f.g.; lt gy (N7) to mod gr-y (10Y 7/4); mottled text; less fl than previous unit; average 4% fl sections with 8% max; xtl; common r-br (flc?) min associated with fl bleb; few qtz vns 0.5cm; po common; less fl occupying fracs, dominantly fl blebs; f.g. py common; few v.f.g. med gy-gr diss chl grains; few frac bio vnlets.</p> <p>@61.60 m - patches of r-br (flc?) grains associated with but not directly beside fl grains.</p> <p>61.87 to 67.80 m - f.g. diss chl common as individual grains and along alt bio fracs.</p> <p>61.55 to 61.80 m, 62.50 to 63.00 m, 63.80 to 65.80 m - f.g. diss, mass, speckly; fl + r-br (flc?) + chl; common pale y min (associated with dol) bands + vns.</p> <p>68.20 to 68.35 m - frac with Fe-ox wthg og-rusty color.</p> <p>68.75 to 69.00 m - fracd zone, wthd og rusty color, frac = 40° CA.</p> <p>69.10 to 69.65 m - fracs with chl infill common.</p> <p>70.24 to 70.30 m - v.f.g., aph, lt ol-gy; homo vn; common chl fracs; undulating etc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 84.14 | 109.03 | - | | <p>69.02 to 78.95 m - no fl, even after 78.95 m fl is sparse; mod fol f.g.</p> <p>75.15 to 75.25 m - m.g. to c.g. dol, mass; poor minization, few mafics around dol.</p> <p>80.30 to 81.00 m - c.g. dol; mylonitization; str fol, poor minizaion; r-br streaks.</p> <p>80.92 to 81.00 m - abnt frags, wthd exposure surface (lim?, Fe-ox) rusty y, gouge with dk gr-blk anh amph.</p> <p>82.50 to 82.60 m - f.g. fl+ r-br (flc?) mod fol, upper ctc sharp= 38° CA and gradational lower ctc.</p> <p>83.00 to 84.14 m - (and into the next litho); c.g. to m.g. dol; mylonitization abnt; common f.g. fl + r-br flc?</p> <p>83.40 to 83.58 m - abnt frags with highly wthd Fe-ox brc pieces; mylonization.</p> <p>83.58 to 84.14 m - ground up grains, drk gy; sharp ctc = 40° CA</p> <p><u>bsn/prs dol-Carb</u></p> <p>m.g. dol; y-gy (5Y 8/1) dol; abnt mod r-br (10R 4/6) 0-10 % locly; common vns with 15% r-br flc; few f.g. fl blebs; xtlh; few vuggy voids mm scale; other than fl + flc few other mins; abnt bnds of fl + flc; abnt dol only bnds; few ctsc section with mylonitization.</p> <p>86.68 to 90.55 m - mod r-br min average 7% abnt.</p> <p>88.50 to 88.99 m - v.f.g. mod r-br mm vn x-cut section with abnt m.g dol and without abnt dol.</p> <p>@84.14 - c.g. dol, ctsc bnds common throughout.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>fol @87.40 m - ~30° TCA</p> <p>fol @90.48 m - ~30° TCA</p> <p>90.54 to 99.50 - overall less minized zone ~2% r-br min.</p> <p>90.54 to 90.88 m - c.g. dol? Carb y no minization except for later fl + r-br bands at last 5cm.</p> <p>92.50 to 92.84 m - v.f.g bands of REflc and some gy-g min, strong fol 30° TCA.</p> <p>94.33 to 94.41 m - ~0.5 cm big carbonate clsts, rnd with infill of fl + r-br min. ~90% clsts.</p> <p>95.82 to 96.57 - perv v.f.g gy min abnt.</p> <p>97.31 to 97.46 m - abnt fl and r-br min and some y-w min in bnds. 55° TCA</p> <p>@99 m - frac with c.g. REflc.</p> <p>99.48 to 100.86 m - gradational? Contact to A-zone unit. carbonates appear gr and f.g., bnds of gr v.f.g. Carb with fl patches and finally @100.19 m only A-Unit. ~20% fl, and @ 100.82 - bnds of late stage Carb within that zone common.</p> <p>99.89m to 100.02 m - band with v.f.g carbonate and ~20% sph?, not magnetic, no cleavage, hard, grains up to 0.5 cm.</p> <p>100.82 to 101.08 m - y Carb with perv gr minand bio patches/bands + sph?</p> <p>102 to 102.23 m - late stage Carb dyke, v.f.g with small intrusions of r-br min and some unknown drk br min; fol ~30°.</p> <p>105.47 to 105.98 m - zone of almost parallel TCA running patches of r-br min-rich zones ~40% patches.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 109.03 | 117.00 | - | | <p>99.48 to end of unit - more abdt mafic bands, mostly sph + bio sp (sp?: sph?) overall ~5%.</p> <p><u>WR + Glim + Carb (+amph)</u></p> <p>brecciated WR basically qtz with Carb or Glim between clsts ~30% some areas b amph up to 20% Glim with m.g. to c.g. bio, ~15% mainly at contact to upper unit Carb vns ~1 mm in size, often associated with amph (in Carb) Carb vns ~20%. all mixed together.</p> <p>EOH</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>fol @87.40 m - ~30° TCA</p> <p>fol @90.48 m - ~30° TCA</p> <p>90.54 to 99.50 - overall less minized zone ~2% r-br min.</p> <p>90.54 to 90.88 m - c.g. dol? Carb y no minization except for later fl + r-br bands at last 5cm.</p> <p>92.50 to 92.84 m - v.f.g bands of REflc and some gy-g min, strong fol 30° TCA.</p> <p>94.33 to 94.41 m - ~0.5 cm big carbonate clsts, rnd with infill of fl + r-br min. ~90% clsts.</p> <p>95.82 to 96.57 - perv v.f.g gy min abnt.</p> <p>97.31 to 97.46 m - abnt fl and r-br min and some y-w min in bnds. 55° TCA</p> <p>@99 m - frac with c.g. REflc.</p> <p>99.48 to 100.86 m - gradational? Contact to A-zone unit. carbonates appear gr and f.g., bnds of gr v.f.g. Carb with fl patches and finally @100.19 m only A-Unit. ~20% fl, and @ 100.82 - bnds of late stage Carb within that zone common.</p> <p>99.89m to 100.02 m - band with v.f.g carbonate and ~20% sph?, not magnetic, no cleavage, hard, grains up to 0.5 cm.</p> <p>100.82 to 101.08 m - y Carb with perv gr minand bio patches/bands + sph?</p> <p>102 to 102.23 m - late stage Carb dyke, v.f.g with small intrusions of r-br min and some unknown drk br min; fol ~30°.</p> <p>105.47 to 105.98 m - zone of almost parallel TCA running patches of r-br min-rich zones ~40% patches.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 27.90 | 51.40 | - | | <p>ibd Glim at 21.35 m (40 cm long) gradational ctcs, abnt itsl cc. (20 to 40%) f.g.</p> <p>@22.50 m - frac/vn lined with c.g. euh b/f partially filled with talc (w, v. soft) some vugs remain.</p> <p>@23.69 m - 13 cm bnd that is med gy, mass, homo, f.g.</p> <p>more ibd late stage Carb bands from 23.50 m to end, all < few cm wide.</p> <p>~22.50 m to end - gdmass is more y, suc texture, f.g.</p> <p>@25.20 m- patch of brcd country rock, br, partially altd.</p> <p>gradational ctc with brc below, with small brcd zones increasing towards etc.</p> <p>interval is 200 to 250 CPS overall.</p> <p>bndg msmt 13.70 m = 50° TCA, 20 m = 40° TCA, 24 m = 45° TCA</p> <p><u>dol-Carb brc</u></p> <p>y to lt gy to dk gy; wkly to mod bnded with mass sections locly; v. hetero/poorly sorted, dominantly mtx sup.</p> <p>non-brcd sections occasionally throughout, <3 m long, typically bnded, f.g. to m.g. (eqgr to poikylitic(?)) -phen(? alternately just dk grains!) are equent and dk br-blk (pych?), <1%, <2 mm to higher CPS at these zones.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 51.40 | 73.19 | - | | <p>brc clsts up to several cm across, mostly ang but some have rnd edges; consist of A) country rock - gy-br, commonly fracd, altd along edges, usually equant, B) Carb/dol - y-lt gy, usually flat/elongated, C) mass dk gy clsts with vesicular dol and cc-filled frac, dol vesicules up to 8 mm; these are concentrated from 41.50 to 49.10 m up to 20 cm long D) any other varieties are <1 cm.</p> <p>30.70 to 31 m - wkly bnded, non-brcd sections with py up to 30% locly, f.g., some euh xtls. Below this, 15 cm zone with py patches diss up to 5% locly, and c.g. transparent dol itsl (10%), remainder is dk gy-blk and hard.</p> <p>mtx f.g., mostly lt gy; cc, bio, py all <5%.</p> <p>interval is 350 to 450 CPS - counts increase in non-brcd Carb with poss. psych.</p> <p>bottom ctc is sharp.</p> <p><u>dol-Carb</u></p> <p>lt gy with dk gy specks throughout; mass to wkly bnded, fairly homo with occasional brc zones; f.g. to m.g.</p> <p>first ~5 m is f.g lt gy gdmass with only trace other diss mafics; occasional vugs down to 56.30 m, lined with euh cc xtls; locly frcs have fl + flc infilling, trace; py diss locly up to few %. mineralization of bsn? and fl.</p> <p>below 56.50 m - c.g. with small dk gy patches throughout (f.g. suls? not sure what they are) and blk to dk br equant mins, <2 mm, up to 2% locly (psych?) suh to euh.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 73.19 | 104.30 | - | | <p>ibd brc zone at 60.58 m (39 cm long) and 10 cm long at 72.60 m and 65 m (28 cm long), ctc sharp to gradational, poorly sorted, variety of clsts cc/dol/Carb, country rock/bio etc.</p> <p>65.60 m to 72.60 m - cc vns x-cut, 1 to 14 cm long; 100% mass cc, w-pk.</p> <p>interval 250 to 750 CPS, highest near bottom (pych-rich zone?), decreases upwards.</p> <p>bndg msmt at 54 m =65° TCA</p> <p>ctc with interval below very gradational.</p> <p><u>dol-Carb</u></p> <p>lt gy to dk gy; mass; str hetero; intermittent cc-rich sections throughout up to 30 cm long (bnds/vns/some itsl stuff).</p> <p>ibd homo Carb (of prev interval) throughout sections 50 to 150 cm long; f.g., lt gy with dk gy patches.</p> <p>top ~2 m-alternates from lt to dk gy gdmass, gradational ctcs.</p> <p>disturbed/brcd/fracd zones throughout, typically have higher cc content, also locly bio rich (all itsl, not clsts) (2 to 20 cm zones)-bio also filling fracs locly (rare).</p> <p>bnds/zones with abnt dk gy min, 5 to 40 cm long, v.f.g. with itsl cc (<30%), gy min is 60 to 80% with dol pockets common (up to a few cm across) may also be itsl (bio few %) larger zones at 85.20 m (30 cm) to ~87.50 cm (50 cm).</p> <p>@88.40 m - core break coated with chalky paste - flt gouge?</p> <p>brc from ~93.90 to 94.30 m dk gy-blk, mtx sup, dol/Carb clsts up to 4 cm across, suba; gradational, upper and sharp lower ctcs; few% cc in mtx.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 104.30 | 236.25 | - | | <p>cc vns x-cut at 101.40 m (8 cm wide) and 102.60 m (20 cm wide), both w mass cc.</p> <p>a few fl patches from 98 to 99.50 m, trace.</p> <p>gradational ctc to interval below ; interval is 400-1500 CPS lowest at top, increases to >1800 CPS at 90.40 m, then 400-600 CPS to end.</p> <p><u>dol-Carb</u></p> <p>y tan to lt gy; mass to wkly bnded; hetero; texture mottled locky; fl patches throughout-sharp and elongated, up to 10% locky; cc pods throughout - up to a few cm across, w (transparent), pure cc (c.g.) commonly fl lining 1 to 2 mm; f.g.</p> <p>small brc zones throughout bio-rich and cc-rich mtx with Carb/cc clsts; these are <5 cm wide, sharp ctcs, irregular shaped zones.</p> <p>106 to 107.20 m - fairly homo dk gy section f.g. with diss py, couple cc vns 2-5 cm wide (w-pk, c.g.) no fl.</p> <p>~109.75 m - dense fl, couple 5 cm wide patches up to 30% fl.</p> <p>y tan dol bnds 2 to 15 cm wide. suc texture devoid of mineralization, appear throughout with wavy/erratic edges (overprinting or overprinted by gy rock?) fl commonly associated with this dol.</p> <p>112 and 118 m - cc-lined vugs in w mass dol bnds.</p> <p>below 121 m - fl reduced to <2% locky, also fewer cc pods.</p> <p>122.50 to 124 m - predominantly med dk gy rock with minor y-tan dol patches.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>125.35 to 125.59 m - two 10 cm wide ibd country rock frags - abnt frags infilled with cc, brc inbetween; sharp upper ctc with tan-lt gy dol band, small brc bnd at 125.10 m (other side of dol) - dol later vn? Lower ctc gradational.</p> <p>20 cm - brc zone at 136.30 m, dol/Carb clsts with bio-cc mtx, clsts ang.</p> <p>@134.70 m and 141.10 m - mass y section (both 40 to 50 cm long) with dk gy patches; gradational ctcs.</p> <p>@137.60 m and 140.15 m - 4-7 cm wide bnds, pk, trace v.f.g. diss flc.</p> <p>below 142.50 m - fl content increases slightly, still <2% locky but occurs more often.</p> <p>cc pods more common below 142 m, up to a few per m, size increases downwards, pk.</p> <p>mix of y-tan and med gy to gy patches/bnds with irregular edges continues.</p> <p>py diss throughout, <1%</p> <p>157.07 to 158.90 m - mass dol zone, >98% w tan dol, moderate vugs throughout (cc-lined) frac/broken at various angles throughout, sharp upper and lower ctcs, trace mod r min diss at bottom (bsn?).</p> <p>169 to 171 m - fl increases, stricly lining Carb grains in brc zones, <1 mm thick.</p> <p>@159.55 m, 166.10 m, 172 m, 178.78 to 179.10 m are r-pk bands 1-15 cm wide with f.g. bsn (?) up to 2% locky.</p> <p>180 to 186 m - predominantly med gy rock with a few patches/bnds of y dol and several w-pk cc pods (+/- fl lining).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 236.25 | 260.35 | - | | <p>184.10 to 184.30 m - many vugs infilled with cc (euh rhombs) and py vugs are stained by dk r hem/Fe. OH staining</p> <p>more r-pk patches with bsn/flc at 186.15 m, 191.85 m, 192.30 to 192.50 m bsn up to 1% locly may have <5% fl flecks associated; bnds (1-2 cm wide) at 215.65 m.</p> <p>below 205.50 m - fl streaks and linings increase in abundance - continuous from 218 to 229 m (fl up to 5% locly); py forms clusters locly around, fl-rich zones, up to 20%.</p> <p>@212.78 m - 17 cm zone of later stage Carb (?) f.g. and mod-str bnded (very thin) with bsn (?) up to 2%.</p> <p>@224.70 m - <1 cm qtz vn w-transparent.</p> <p>str concentration of fl again from 233.80 to 234.50 m.</p> <p>gradational ctc to unit below.</p> <p><u>dol-Carb</u></p> <p>lt gy with pale y and pale pk patches throughout mass to wkly bnd, more homo texture; m.-c. gr.; ap ~20% throughout.</p> <p>pale pk blotches throughout, bright w under UV up to 30% but typically 10 to 20%.</p> <p>top 1.5 m - py clusters common, up to 10% locly.</p> <p>fl diss; 10% throughout and also concntrated bands at 237 m (4 cm band, sharp cuts, ~30% fl, itsl, ang w dol grains). At 240.15 m(10 cm), 240.75 m (8cm), 240.95 m (3cm)- fl-rich zones (20 to 50%) with few % cc, py; c.g. dk p with pale gr ap (~25%).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>ibd Glim frag at 243.60 m, dk gy to blk, itsl cc up to 50% at top decreases below, bio >50%, euh py xtls diss further down (1 to 2%); top ctc sharp, irregular/undulating, jagged with increased altn nearest Carb (has small Glim frag floating in it) this is 9 cm wide, return to Glim below (another sharp clean ctc); -Glim now no cc-c.g. bio with pk dol blotches <1 cm (<40%); only half core (lower ctc runs ~/ to CA) again sharp but jagged with many frac in Carb infilled with bio and pk dol.</p> <p>@243.91 m - sharp break in Carb, clean break, rock witches to thinly banded late stage Carb (?), bsn (?) in bands up to few % all v.f.g.</p> <p>below 244 m - return to c.g. mass blotchy Carb, still trace f.g. bsn here continues for ~20cm (diss).</p> <p>late stage Carb vn x-cut ~parallel to CA from 244.45 to 244.80 m.</p> <p>diss fl and small bnds increase in abnt from 245.50 m to 248.38 m, last 20 cm of this is lt p f. g. (also r-pk specks, trace, bsn?).</p> <p>@246.80 m - 4 cm wide f.g. homo bnd with sharp ctcs, pale gr edges and pale pk-tan centre-late stage Carb vn? Trace v.f.g. bright r-pk flecks (bsn).</p> <p>248.38 to 249.18 m - and 249.63 to 250.10 m - fl-rich sections (40-60%), wkly bnd, cc vns and vugs; disturbed/smeared between these two sections with fl up to 30% locally.</p> <p>@250.40 m - 1 to 3 cm wide band with f.g. bsn(?) few %, a couple more small patches down to 252 m.</p> <p>abnt fl continues down to ~ 252.50 m - then decreases except for 4 cm bnd at 254.92 m (c.g. fl ~80% and fl-rich section from 254-254.66 m (wkly bnded, fl 10 to 50%).</p> <p>248.38 m to end - reduced pale pk blotches, only a few % locally.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 260.35 | 270.79 | - | | <p>252.50 m to 253.50 m - dk gy mod bnded section with few % diss py and <10% dk gy met (?) equent mins (f.g. suls?).</p> <p>mass, blotchy, m.-c. g. text stops at ~256.45 m (except for a 20 cm band at 259.35 m) -the remainder of interval is dk gy, stronger fol/bnded, f.g., with frac/brcd sections up to 1 m long; 256.50 m fracs infilled with dk gy-br min(bio?/suls?).</p> <p>@258.70 m - 20 cm with weathered vuggy banding, pale y tan with cc >60% locly.</p> <p>@258 m - 18 cm bnd of v.f.g. thinly bnded lt ol-gy Carb (late stage) with some r layers (bsn?, trace).</p> <p>sharp initial ctc to unit below banding msmt at 244 m = 65° to CA, 248 m=56° to CA, 259 m=60° to CA</p> <p><u>dol-Carb</u></p> <p>w to pale y-tan with lt gy bnd/patches throughout; wkly to mod bnd, fairly homo; f.g. to m.g.; ap 10-40% throughout.</p> <p>260.50 to 261.25 m - rock is predominantly gy-br, f.g. than majority of interval, no bio.</p> <p>w-tan mins include fol and ap (majority of rock) with f.g. bio flecks and py in bnds (<1 mm grains, trace).</p> <p>frac zones at 262.50 m (50 cm long), 264 m (30 cm long), 266.10 m (30 cm long), plus other smaller ones; fracs filled with f.g. bio +/- cc, py.</p> <p>@263.61 m - 1 cm wide v.f.g. homo bnd, gr gy, sharp ctcs, late stage Carb vn.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 270.79 | 275.75 | - | | <p>268.50m to end - rock more mass, no dk gy bands, minor frac and pk flecks throughout-f.g. bsn (?) diss (up to 10% locly).</p> <p>269.45 to 270.17 m - two 20 to 30 cm long fl rich sections, thinnly bnd fl lt-dk p, up to 60% locly; f.g. dk gr zone in between with diss py (<10%).</p> <p>sharp bottom etc.</p> <p><u>dol-Carb</u></p> <p>md to dk gy, mass, frac/brcd.</p> <p>top 2 m - heaviest disturbance, decreases downwards.</p> <p>abnt frac with abnt cc, infilled with dk gy-blk, v.f.g., likely bio+py+cc, rock still dol-Carb.</p> <p>ibd undisturbed zones throughout, reminiscent of previous unit, w-lt gy dol-rich, rare fl bnds <2 cm wide 70 to 90 %.</p> <p>last 50 to 100 cm - no frac, f.g. med gy rock with diss py up to 5 % locly, small frac with fl infilling (uncommon).</p> | | | | |
| 275.75 | 328.25 | - | | <p><u>dol-Carb</u></p> <p>y-tan to w, with dk gy bnds/patches, wkly to mod bnd, dominantly dol-ap rock (10 to 40 %) throughout, f.g.-m.g.</p> <p>top 1 m - is more mass, c.g., and blotchy, bio diss up to 5% locally, small frac with fl infilling uncommon. This text repeated intermittently down to ~288m, zones <1 m long.</p> <p>dol and ap still dominant here, but more gy.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|--|-------------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>rare fl bnds/patches locally, <2 cm wide, 30 to 50 % fl at 276.70 m, 277.15 m, 279.75 m.</p> <p>bio flecks diss, <2 % loclly.</p> <p>@286 m - zone with abnt py ln clusters, up to 30%.</p> <p>287.05 to 287.25 m - dk gy c.g. bnd with large (<1 cm) qtz pockets up to 30 % loclly, py up to 5% locally, also dk gy-br grains (country rock? Hard, 5 to 10 %).</p> <p>288 m to 288.65 m - (first 50 cm mostly just fracs, brc lower down) and 289.70 to 289.85 m - are str frac/brcd zones, both sharp ctcs, fracs infilled with bio +cc.</p> <p>brc, clsts bio-up to 1 cm across, mod bnd.</p> <p>below 288.65 m - 10 to 20 cm long sections of clean dol, more common- <1% dk gy/ mafics, w-y. these are >95% dol ap restricted to areas and bnds with gy.</p> <p>@296.08 m - <1 cm qtz pod, pk, some cc surrounding.</p> <p>other cc pods found throughout interval, typically w-pk, <1 cm; trace above 288.65, increases below up to 3% loclly from 298.50 to 301 m.</p> <p>300.90 to 302 m- b gr ambl diss up to 3 % loclly, acicular xtls <5 mm long.</p> <p>297 to 297.50 m - heavily frac section, str bnd, fracs filled with cc, bio.</p> <p>below 301 m - dk gy banding increases - no clean dol sections.</p> <p>cxl fl bnds 302.70 to 303 m, 40 to 80 % fl; bnds have bio-rich zone in between and str frac 2 cm band (fracs filled with cc) mineralization of fl.</p> | | | <p>284 to 284.30</p> <p>288 m to end</p> | <p>700 to 900</p> <p>200 to 400</p> |

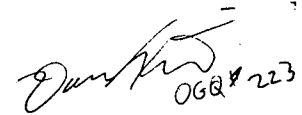
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>ibd cc-Carb w-pk, at: 303.20 to 303.63 m → mass, foggy text- salt grain boundaries, dk gy patch at centre with mag and py few %; 307.18 to 308 m → bnds and patches 1 to 20 cm long, seperated by dol-Carb mod frac (fracs filled with cc) 308 to 309.20 m → more cohesive/continuous cc Carb, mass, gr ap clusters common first 40 cm; 20 cm dol-Carb band near bottom - very similar text; dol-Carb between is frac irregularly (but widely spaced) fracs infilled with bio sulcs? (not cc) also ap abnt 309.60 to 310.08 → mass, dk, pk, ap clusters loclly (up to 30 %).</p> <p>310.08 to 319.15 m - cc common in dol-Carb up to 15 % loclly, usually small patches (<1 cm).</p> <p>303 to 308 m - rock is str hetero/ disturbed, alternating dk gy bio-rich sections and y tan dol-Carb sections (plus cc-Carb as described above);ctcs sharp and erratcs between litho/text changes, frac zones dispersed every 50 to 100 cm with bio and cc infilling.</p> <p>dk gy, bnd, mag rich zones with sharp upper ctcs, gradational lower ctcs, at: (ibd phoscorite).</p> <p>311.95 to 312.75 m → 5 cm concentrated bio at top, switches to c. g. mag-py-dol-ap wkly bnd rock for 24 cm, mag 10 to 40%, py up to 20% loclly, ap + dol ~30 to 80%;lower 50 cm is mass, tan ap-dol rock with many dk gy (mag+py+bio) patches(mineralization of mag); 316.90 to 319.30 m→ str bnd and dk gry over entire section, mag- and py rich for ~1.20 m (mag 20 to 75%, py up to 40% loclly, rest is ap-dol rock);next ~ 20 cm zone of disturbed Carb with bio patches; bottom ~m is still dk gy and bnd, but no mag-dol is gy (60 to 80%) with ap (20 to 40 %) b gr ambl up to 10% loclly and few % py; up to 1 cm thick layer with 50% ambl at bottom, needles <5mm long;(mineralization of ambl).</p> <p>319.30 to 322.15 m - Carb is w dol rich +/- cc loclly with only a few gy specks/ thin bnds of bio/py/ambl, ap locally.</p> <p>pk-r from 320.63 to 321.14 m - f.g.bsn diss,trace; more bsn in bands from 324.22m to 324.95 m- this rock c.g. bsn up to few %, also fl up to 5% loclly in patches; ambl clusters in centre up to 20%; mineralization of bsn.</p> <p>mag-rich bnds from from 322.15 to 323.10 m, 5 to 15 cm wide, up to 70% mag in lowest band.</p> | | | top 10m | 400 600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 328.25 | 331.87 | - | | <p>@326.75 m - many frags with c.g., b-gr ambl infilling.</p> <p>10 cm wide mag-py-rich band at 327 m.</p> <p>ibd cc-Carb from 327 to 327.80 m, pk to gy, up to 1% gy specks throughout-mag xtls.</p> <p>3 cm wide ambl-cc band at 328.05 m, ambl 20 to 30%, c.g., b gr needles, ambl scattered/diss ~to end; mineralization of ambl.</p> <p>1 cm fl patch at 328.20, 10% locky; mineralization of fl.</p> <p>lower ctc gradational- increased ap (>30% locky).</p> <p><u>phoscorite(?)</u></p> <p>dk gy; hetero; mass to wkly bnd; c.g.</p> <p>unit is mag-and ap-rich, with bio/phl locky (few%); itsl cc up to 40% locky.</p> <p>ibd dol-Carb (predominantly gy zones) and cc Carb (<20 cm long).</p> <p>@328.80 m - 10 cm zone with diss up to 30%.</p> <p>more py-rich zones throughout (smaller and lower concentration).</p> <p>mag 40 to 95% throughout.</p> <p>cc zones w-pk, gradational to mag-rich rock.</p> | | | | |
| 331.87 | 342.05 | - | | <p><u>dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| 342.05 | 349.80 | - | | <p>w to pale y, predominantly Carbonate/ap, lt gy specks and bnds throughout; mass to wkly bnd, fairly homo; m.g.; ap 10 to 20% throughout.</p> <p>ibd cc-Carb from top down to ~333 m; pk clean cc with dk gy bnds (f.g., mag 10 to 30% diss) at top (10 cm wide) and 332.29 m (20 cm wide).</p> <p>332.60 m to end of zone - c.g. pk cc and dk gy ang mag clusters.</p> <p>cc pockets throughout unit (<2 cm).</p> <p>lt gy patches/ bnds consists of b-gr ambl, py, bio, r br min (anh clusters) and euh equant/octahedralmin(not pych-no kick on scint)- all trace amounts. Most dense between 336.50 to 338.5 m.</p> <p>lower cf gradational.</p> <p><u>C carbonate</u></p> <p>w to pk with lt gy patches and blk specks throughout; mass to wkly bnd, homo;m.g.</p> <p>all blk specks are equant, met-mag, 2 to 10% throughout; mineralization of mag.</p> <p>top m cc mostly pk, below is w to gy; mineralization of cc.</p> <p>py diss throughout, trace; mineralization of py.</p> <p>ap only few % throughout diss; mineralization of ap.</p> <p>greenish dol bands locky up to 3 cm wide f.g.; mineralization of dol.</p> | | | 150-250 | 180 to 210 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|-------------|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | EOH | | | | |

GEOLOGICAL DRILL LOG



| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|------------------------------|
| Property: Eldor Property | Easting (m): 538077.14 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 30, 2010 | Downhole Survey: Yes |
| Expl. Area: SE Area | Northing (m): 6310973.22 | Rig Type: Discovery I | Date Completed: Aug 04, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 1007658 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: Metric to imperial rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 235° | Core size: BTW | End of Hole: 353.10 m | change @ 225.00 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 4.22 | 80.00 | - | | <p><u>pych ap dol-Carb</u></p> <p>lt gy, b-gr gy patches; mass homo text, blk speckled throughout, f.g. to m.g.</p> <p>ap 10-30% throughout.</p> <p>blk-dk br specks throughout, equant/octahedral, subh euh - pych; <1-2% throughout but up to 5% locly; only occasional "barren" zones (under 1000 CPS) in top 51 m. 1000-2000 CPS, locly up to 3000 CPS.</p> <p>trace py throughout.</p> <p>above 9 m, a few broken zones, mostly competent.</p> <p>9 to 11.10 m - ibd country rock? (bldr?) p to dk gy-br, f.g. hard, meta-Volc? (f.g. fl xtls seen throughout 5-10%); sharp ctc (top broken/wthd), bottom 30 cm fracd with small Carb stringer locly (altd edges of country rock, bio- rich).</p> <p>occasional pk patches locly above 21 m, trace.</p> <p>ibd meta-Volc frags, altd bio-rich ctc (sharp) and fracd throughout; from 12.70 to 12.95 m, 18.40 to 18.72 m and @20.50 m - (2 cm wide patch), @45.37 m - (6 cm wide patch)</p> <p>below 13 m - ap concentrations increases from <30% to 40 to 50% - f.g./diss (not clusters, mixed in with gdmass).</p> <p>pure dol bnds occasionally, <5 cm wide f.g., no pych; bnds increase further down.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 80.00 | 92.43 | - | | <p>below 36.50 m - dol-rich zones increase in size, abundance; these are y, blotchy, no ap, <20 cm long.</p> <p>cc patches throughout, <1 cm, trace.</p> <p>52 m to end - 600-900 CPS, a few zones down to 450 CPS, a few zones up to 1000 CPS.</p> <p>53 to 57 m - brcd zones, <50 cm long, mtx-sup, dol-Carb clsts sub-ang; mtx dk gy; also frac areas common here, infilled with bio-py-cc mixture.</p> <p>~54.50 to 57.50 m - <3 cm wide clusters of og-tan equant mins up to 5% locky; mnz?.</p> <p>76.50 to 77.15 m - several y dol-rich zones, pych not visible here but still high CPS.</p> <p><u>ap dol-Carb</u> dk gy to w to lt ol-gy; hetero text; mass sections vs. mod bnded sections; dk gy bnded sections typically c.g.</p> <p>ap throughout, usually forms clusters/bnds; up to 30% locky; dol-rich zones devoid of ap dispersed throughout, more common in bottom half.</p> <p>top ~4.5 m - dominantly ltr gy wkly bnded rock with dkr streaks/specs throughout and around fracs.</p> <p>Below 84.50 m - dk gy sections 25-150 cm long with w lt gy (dol-rich, no ap) to gr (with ap) sections and bnds dispersed throughout (<1 m long). dk gy sections typically c.g., itsl ap locky not consistent, ctc gradational to sharp (random).</p> <p>py up to 15% locky in clusters in dk gy zones.</p> <p>85 to 85.20 m and 192 to 192.35 m - c.g. dk gy zones are mag-rch (10-50% mag), metallic blocky xtls <1 cm. All other dk gy is f.g. dol clusters.</p> | | | | <p>380-450</p> <p>400-900</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 92.43 | 149.53 | - | | <p>@82.70 m - 3 cm r bnd, sharp ctc, f.g., no ap → Dol + trace bsn/REflc(?)</p> <p>@92.33 m - itsl cc locky near end of interval + 2 cm wide pk bnd.</p> <p>Last 30 cm 850-1200 CPS (increase towards ctc).</p> <p><u>ap dol-Carb</u> pale ol with y and gy patches/zones throughout; hetero, mottled text, mass; f.g. to m.g.</p> <p>ap throughout up to 30% diss in gdmass with dol and in clusters. (randomly arranged)</p> <p>@92.80 m - ~15% dk gy bnd dol f.g. gy clusters, ap itsl, lt gr-gy.</p> <p>94 to 94.50 m - rock is fracd/disturbed minor cc infilling otherwise bio; frags occuring in mass dol frags, disturbed section below are large ap and dol clusters with poorly defined boundaries.</p> <p>94.50 to 101 m - fairly homo, pale ol with gy mottled text, some gy bnds (increasing towards 101 m) - gy dol clusters with itsl ap.</p> <p>95.50 to 96.50 m - couple areas with patchy bio itsl to dol grains; <5% locky.</p> <p>101 to 101.60 m - f.g. dk gy section with trace brc clsts within - concentrated for ~20 cm in center and ~10 cm at bottom; clsts dominantly br meta-Volc; or dol-Carb <2 cm.</p> <p>below this, returns to mottled text; c.g. bnd 6 cm wide @101.70 m - with few % blk specks <1 mm across (pych?); followed by 8 cm wide v.f.g. lt gy bnd, gradational ctc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>102.60 to 102.95 m - f.g. equigranular section, trace dk br equant grains throughout; sharp irr upper ctc sharp planar lower ctc; below this, c.g. and mottled.</p> <p>107.50 to 109 m - diss py up to 25% locky.</p> <p>109.75 to 110.70 m - w-y c.g. mottled dol-rich rock, a few gy-gr bnds in center, mod frags near bottom.</p> <p>111.50 to 113 m - fl bnds/clusters, dk p up to 2 cm wide, bnds 90% locky, clusters up to 25% locky; also py clusters up to 25% around 112 m.</p> <p>112.50 to 113.10 m - cc clusters up to a few %.</p> <p>113.35 to 114.90 m - m.g to c.g equigranular text; mix of y and gy dol and ap up to 30% few bio patches throughout up to 10% locky.</p> <p>125.5 to 126 m - several py clusters with up to 50% py.</p> <p>117.50 to 117.90 m, 118.85 to 119.15 and @ ~120 m - mag rich bnds/clusters mag. up to 40% locky, bnds up to 4 cm thick; diss <5% at edges of clusters.</p> <p>a few cc pods/vn below 121 m - locky up to a few cm long, pk, sharp ctc; trace.</p> <p>may have fl associated or nearby .</p> <p>121 to 126.67 m - many disturbed zones - sharp/fracd edges around frags/min clusters, x-cutting vnlets of cc/late-stage dol-Carb.</p> <p>@123.57m - a few <1 cm r-o-br min grains (<5%), tan streak, med hardness (mnz?) mounted in w cc bnd ~2 cm thick.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 149.53 | 203.88 | - | | <p>126.67 to 131.50 m - rock is lt gy (b-gr); dominantly f.g. gdmass; ~40 cm long m.g. to c.g. equigranular section at 128.50 m - med gy and y dol grains with itsl ap (up to 30%), trace patches of bio, diss br-blk grains (equant, <2 mm) up to a few % locky (pych?) gradational upper and lower ctc, bottom ~1 m wkly bnded-dk grey streaky bnds <2cm wide.</p> <p>below 131.50 m, gdmass returns to y-g ('pale ol').</p> <p>134 to 136 m - fracd sections up to 40 cm, bio-cc-py infilling.</p> <p>below 141 m, rock is wkly bnded locky - mostly this bndg is overprinted by later fracg and later stage Carb(?), blotchy/mottled texted locky.</p> <p>@~143.50 m - <3cm wide fl bnds/clusters 5-20%.</p> <p>145.50 to 147.50 m - py clusters locky up to 30%.</p> <p>zones of lt gy gdmass intermitently below 143 m, <30 cm, gradational ctc to y gdmass.</p> <p>a couple w-pk cc pods up to 5 cm with sharp ctc appear from 145.90 to 146.50 m - <1 per m fl clusters associated, <10% locky.</p> <p>fairly sharp lower ctc.</p> <p>94.50 to 110 m = 600-900 CPS, 110 to 121 m = 900-1800 CPS, 121 to 133 m = 300-600 CPS, 133 to 143.50 m = 600-900 CPS, 143.50 m to end = 550-650 CPS.</p> <p><u>ap dol-Carb</u></p> <p>med gy, gr-b mass, mottled text fairly homo, locky fracd/brcd (increases down) f.g. to m.g.</p> <p>cc pods throughout <5 cm, w-pk, sharp ctc, increases down.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>ap throughout, 10-30% f.g. diss and larger clusters diss.</p> <p>@151.75 m - diss blk pych upto 5%.</p> <p>155.50 to 157 m - gdmass is ltr gy wkly bnded, more blotchy text.</p> <p>later stage gr Carb vns x-cutting loclly below 156.50 m.</p> <p>below 159 m - fl patches loclly <5% dk p c.g., vug filling?</p> <p>157.50 m to end - py patches diss filling fracs, <20% loclly.</p> <p>dk gy f.g. sections loclly, <20 cm long.</p> <p>@172.70 m - 5 m blk xtl, subh, equant.</p> <p>@180.75 m - 20 cm fracd zone with abnt bio infilling.</p> <p>185.75 to 190.50 m - abdt cc pods/vns, couple up to 30 cm long 188.30 to 189 m. all mass, suc text, 100% cc.</p> <p>185.50 m to end - fracd/brc sections loclly, increase in abundance and length downwards. clsts/ frags infilled with bio (clstl supported) this fracd/brc text is ~solid/continuous from 195.30 to 203 m with stronger brc zones loclly (esp. at 200.30 m for 20 cm) - they have gr dol-Carb and w cc clsts in bio- rich mtx.</p> <p>top to 156 m = 600-1300 CPS (highest 151.75 m)</p> <p>156 to end = 300-500 CPS</p> <p>bottom m is lt gr with many pk cc blotches - vug-filling. also tan-br min diss loclly <5%, <2 mm equant - these restricted to small dk gr bnds (ambI?) within last m also trace bsn/REFlc loclly?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 203.88 | 236.30 | - | | <p><u>fl dol-Carb</u></p> <p>w lt gy and p; hetero, bnded (fl-rich sections); to massive and mottled/blotchy text (ap-dol-rich sections); top ctc marked by introduction of fl handing - these are common throughout the interval, top 5 m, fl bnds/patches are 2-25cm long, almost solid fl from 213 to 224m, 224 to end bnds are more discontinuous/less common, again <25cm.</p> <p>fl bnds/bnded zones typically 30- 90% fl, remainder is thinly ibd dol/ap; also fl patches/clusters loclly do not fully cross core, usually undulatory edges, only a few of these in top 5 m.</p> <p>Carb gdmass lt gy, loclly g-y, molted text common; also gy-gr fracs or bio-cc filled fracs throughout.</p> <p>r zones loclly f.g., diss, <1%; (mineralization: bsn/REflc?).</p> <p>208.87 to 210.17 m - only a few small fl clusters y molted Carb with gr patches, ap ~10-20% also r bsn (?) diss from 209.70 to 210.17m.</p> <p>core very broken from ~210.50 to 213.25m, 214.50 to 215m and 217.20 to 222m with mod- severe core loss.</p> <p>234.65 to 235.54m, dominantly gr and blk mag-rich rock - first couple <10 cm and seperated by lt gy-g Carb poikyloblastic text - ap + dol f.g., ap 5-10%; mag phen up to 8 mm, subh- euh, 10-70%.</p> <p>Gradational lower ctc - fl bnds decrease in size and number, no more fl nearby below ctc.</p> <p>top to 210 m - 300 to 500 CPS, 210 to 232.50 m - 250 to 400 CPS, 232.50 to end - 500 to 800 CPS increases down.</p> | | | | |
| 236.30 | 251.55 | - | | <p><u>ap dol-Carb</u></p> <p>Very hetero/ mixed zone.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>Carb is lt gy-y; mass to wkly bnded, mass to wkly bnded, mass sections have mod frags py/cc/bio infilling, mottled zones loclly.</p> <p>first ~50 cm is wkly bnded, homo, f.g. equigranular.</p> <p>237.10 to 239.95 m - ibd mag-rich rock (phoscoreite?), with small dol-Carb zones ibd loclly; dk gr-blk, cc patches and vns common, ap 5-15% throughout (diss/itsl to mag), variable text: 50 cm section at top with undulatory vn - dominantly mag filled, minor cc in center. Jagged etc, green mass wallrock with mag phen diss, Next ~50 cm mod bnded, dominantly dol-Carb, 238.35 to 239.60 m - gr mag-rich rock has abnt pk cc patches throughout - these are flattened-ellipse/worm-shaped, all randomly oriented. Also 1- 2 cm wide cc vn, 30 cm long, undulatory, weaves along CA. In the section, mag phen <5 mm diss in bnds <5 cm wide throughout (10-20%), last 30 cm, pk cc itsl/gdmass, mag still diss in bnds, less gr in gdmass.</p> <p>Ap in dol-Carb is 10-30% throughout, f.g. diss and clusters.</p> <p>240.25 to 244 m - fl bnds/ clusters loclly, dol-Carb usually strongly bnded here; @241m, fl bndg has wavy fl vn x-cutting and forming a pocket at the end with ~30% dol xtls within - fl usually ~40% over length of bnded sections.</p> <p>@241.80 m - 10 cm cc-rich zone, gr c.g. cc (~50%) with w itsl dol, many cc xtls wthd out - vugs now.</p> <p>fairly homo, mass dol-Carb 244 to 245.5 m, w with faint b-gy patches/clusters loclly.</p> <p>245.50 to 246 m - lbd Glim, c.g. bio patches broken up and invaded with cc (15cm zone in center), sharp clean etc, 246.35 to 246.59 m - c.g., cc vnlets throughout, 246.80 to 247.68 m - c.g. edges f.g. strongly bnded center (44cm), euh py phen <5%, diss cc <20%, c.g. sections have cc vns as prev.</p> <p>@ bottom of Glim zone (247.68 m) a few fl clusters (<few cm) and a few more scattered to end of interval.</p> | | | 700-1050 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 251.55 | 255.16 | - | | <p>cc diss and in pods for last ~4 m, few % total; solid pk zone from 249 to 249.25 m.</p> <p>gradational lower etc.</p> <p>~240 to 245 m - 400-600 CPS, 245 to end - 250-350 CPS.</p> <p><u>C-Carb</u> pale pk, gy- gr patches throughout; mass to wkly bnded throughout, suc/foggy text ctc between pk and gy patches not sharp/clear; f.g.</p> <p>diss mag locly <1%, patchy - zones with mag <10 cm long; only seen in cc-Carb.</p> <p>ibd dol-Carb, couple bnds 50-100 cm long, sharp ctc; dol-Carb is yellowish with p fl patches locly ap, 10-30% throughout.</p> <p>ap in cc- Carb <5% diss.</p> <p>gr min diss, up to 20% locly, anh (mineralization: di?).</p> <p>sharp lower etc.</p> | | | | 350-600 |
| 255.16 | 263.53 | - | | <p><u>ap dol-Carb</u> lt gy-y; gy patches/ sections common and abnt frags in lower half; mass and mod bnded sections intermittent.</p> <p>ap in 15-30% throughout diss clusters common.</p> <p>255.50 to 257.25 m - fl patches, mostly dispersed and small clusters <few cm, concentrated zone from 255.65 to 256.05 m - 30-40% here.</p> <p>dk brown-blk min diss locly <3mm, equant, subh-euh, <2%; 5-10 cm patches @256.10 m, 256.60 m and 262 m to end. mineralization: psych?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 263.53 | 276.35 | - | | <p>261.25 m to end - frags are +/- cc filled; also bio patches locly; cc pods from 262m to end; increase downwards 5-10%.</p> <p><u>C-Carb</u> pk-y, gy bnds/ sections throughout; mass to mod bnded, foggy/suc text; m.g.</p> <p>ap in cc-Carb <5-10%, diss.</p> <p>mag diss locly, <5%, zones <5 cm long; more commonly in gy patches, not pk.</p> <p>@273.50 m and 275.40 m - 20-30 cm mag-rich zones, mag xtls <8 mm, gd mass/itsl stuff mostly dol, 5-10%.</p> <p>264.95 to 266 m - ibd Glim frag, blk with w cc itsl (~50% throughout); edges fracd/brc with cc pockets <couple cm; center f.g. and compacted bio, itsl cc; Carb bnds from 265.40 to 265.70 m with large bio clusters/frags throughout.</p> <p>268.69 to 270.80 m and 271.50 to 272.70 m - ibd dol-Carb, pale y, mass blotchy text; minor diss blk-br equant min, subh-euh (psych?, <1%) also <1% b gr ambl diss locly and in some frags (dominantly 270 to 270.80 m).</p> <p>ctc with cc-Carb and other bndg in cc-Carb ~45% TCA.</p> <p>273.80 m to end - di (?) diss 5-10% in pk cc-Carb - gr, <5 mm equant grains, anh.</p> <p>diss py clusters scattered locly, up to 15%, commonly at ctc between dol/cc-Carb and mag-rich zones.</p> | | | | 250-550 |
| 276.35 | 281.85 | - | | <p><u>cc ap dol-Carb</u> pale y, dk br patches locly, mostly near top; mass, frags throughout increase down; f.g. to m.g.</p> <p>ap 10-30% throughout, diss.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 281.85 | 288.50 | - | | <p>cc pods throughout, <few cm, 5-10% w.</p> <p>278 m to end - blk and r specks diss throughout; r clusters up to few mm and 5% locky (mostly <1%) - bsn/ REflc? (highest from 278 to 279 m) blk specks are bio (<5% locky) and psych(?).</p> <p><u>C-Carb</u></p> <p>w-pk, dk gy specks diss throughtout; mass, equigranular; m.g.</p> | | | | 400-650 |
| 288.50 | 295.98 | - | | <p>mag diss throughout 1-2%; gr di diss throughout <2-5% locky; 283.25 to 284.05 m, blk bio cluster/broken up Glim frags strewn about, <30% locky.</p> <p><u>ap dol-Carb</u></p> <p>pale y; mass; suc text, homo; f.g. to m.g.</p> <p>ap diss 15-30% throughout, cc up to 10% locky, diss.</p> <p>294 to 295 m - wkly bnded, minor frags with bio infilling.</p> | | | | 500-1100 |
| 295.98 | 301.48 | - | | <p><u>C-Carb</u></p> <p>180-400 CPS throughout, 700-900 CPS locky in top 2 m.</p> <p>w pale pk, dk gy patches/bnds throughout; mass, equigranular, foggy text; m.g.</p> <p>mag diss throughout, concentrated zones locky up to 5-10%; phen up to few mm.</p> <p>gr di diss withing pk sections up to 15%.</p> <p>@~296.50 m - 10 cm zone with <1% mag, but py up to 5% and euh bio books up to 20% - <3 mm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 301.48 | 312.12 | - | | <p>w cc sections typically demineralized.</p> <p>dk gy-gr bnds more common/abdt bottom 3 m - <20 cm long, di-py-mag-bio rich.</p> <p>@300.25 m - frac <1 cm wide filled with bio.</p> <p><u>dol-Carb</u></p> <p>Pale y, dk gy sections/patches locky; wkly bnded, hetero/disturbed throughout, brcd locky; f.g.</p> <p>top 2 m - blotchy text, diss cc pods throughout, <2 cm, up to 15% locky.</p> <p>gdmass throughout v.f.g. y dol-rich, ap 5 to 10% diss throughout, some sections devoid of ap - pure dol.</p> <p>fracs throughout, typically infilled with f.g. bio/py.</p> <p>304.30 to 305.50 m - couple of late stage (?) dol/Carb vns x-cutting up to 45 cm long, >98% dol; more of these below 310.50 m, gy, <40 cm.</p> <p>interval most disturbed from 304.50 to end - brc and overprinted text common;</p> <p>@306 m - 10 cm brc zone, clsts broken off, y Carb, mtx gy dol-Carb with bio flecks. brc continues on and off to end, variable text/mtx/clsts (all types of Carb, bio).</p> <p>308.50 to 309 m, bnded/oriented bio clusters, <10%.</p> <p>306.50 to 307 m - bio bnds common <3 cm wide, bio also frac-filling here (with cc up to 50%). py cluster withing one bnd <20% similar bio bndg repeats 309.85 to 310.15 m.</p> <p>311.30 m to end - mtx is med gy f.g. with many large fracs/bnds infilled with bio-cc; these are bulbous/irr undulatory etc; also cc pods locky; (200 CPS first 2 m then increases to 550 CPS).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 312.12 | 335.27 | - | | <p>sharp lower ctc</p> <p>C-Carb w-pk, dk gy- gr, patches throughout; mass wkly bnded, suc text, equigranular; m.g.</p> <p>mag diss throughout, 1-2% typical with concentrated bnds <5%; phen locky <6 mm.</p> <p>w cc sections typically devoided of mineralization whereas pk sections house minized bnds.</p> <p>320.10 to 320.35 m - ibd dol-Carb, gradational ctc to cc-Carb, y, faint gr bnds within.</p> <p>323.65 to 324.65 m, 325.90 to 330.05 m - ibd Glim frags, discontinuous, cc-Carb zones/bnds throughout <40cm long breaking up Glim sections; Glim edges fracd/brcd, cc itsl to Glim clsts; within center, usually f.g. strong fol, itsl cc (50% throughout); (also cc vns/ bnds <2 cm wide commonly cut Glim).</p> <p>325.30 to 325.65 m and 328.70 to 399.10 m - cc-Carb strongly bnded, (many small Glim frags/ bnds in latter section) and from 331 m to end intermittently, gr bnds locky.</p> <p>Glim frags/ patches <10 cm approaching lower ctc.</p> | | | | |
| 335.27 | 353.10 | - | | <p>Glim/altd + brc wall rock br-blk to med-dk b-gy, w-pk bnds/sections throughout; dominantly brcd; cc-Carb sections mass or mod bnded, suc text.</p> <p>down to 340 m, almost entirely Glim; cc-Carb bnds intersecting occasionally, 2-15 cm; ctc of Glim show heavier/brcn/broken up; cc throughout diss or in vns/pods, ~50%.</p> <p>338.47 to 338.95 m, 345.80 to 347.50 m - significant ibd cc-Carb, w-pk, dk gy bnds/patches throughout, but overall wkly and not minized, no mag.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>340 m to end - brc clsts are altd wr (meta-Volc?) - dk gy b br, all rims bio/phl up to 5 mm thick, sub-ang, up to 5 cm across, poorly sorted; brc is clst supported with cc-Carb or bio alt as mtx; also cc pods/bnds <30 cm long (but usually <10 cm) common through to end; altn seems more intense from 351 m to end, bio content (mtx and rx rims) increases.</p> <p>@352.70m - pass fold, bndg/fn (apparent thanks to cc bndg) curves around over itself over 15 cm.</p> <p>EOH</p> | | | | 150-190 |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|-----------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 537360.23 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 5 2010 | Downhole Survey: Yes |
| Expl. Area: Star Trench | Northing (m): 6310109.91 | Rig Type: Discovery I | Date Completed: Aug 7 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087760 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Partial Pull | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 5.49 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 210.30 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: P. Schmidt | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 4.46m | - | | <p><u>Ovb</u></p> <p>starting ~3 m: bldr, first ~90 cm - dol-Carb, poorly mineralized first ~1-2% sul, all m.g., last ~25 cm sharp ctc to bio-rich clst?, c.g. br bio in gdmass ~10% dol-Carb, then smaller bldrs ~4-5 cm core pieces of granite, Glim, dol-Carb, same r layered sandstone?, etc.</p> | | | | |
| 4.46m | 5.58 | - | | <p><u>Glim</u></p> <p>m.g., br-blk bio with abnt dol-Carb vns and patches, also common qtz vns, sometimes with little bio grains so it appears almost like a finer grained Glim vn, ~60% Glim, 25% dol-Carb, 15% qtz vns.</p> | | | | |
| 5.58 | 6.42 | - | | <p><u>si-Carb</u></p> <p>~50% up to 1.5 cm - mag phenos, all broken, last ~10 cm with smaller mag xtls up to 0.5 cm (nitran measurement taken), abnt ap in bnds? ~20-30% m.g., small amph throughout but less than 5%, Carb is dol, sul in big patches with mag phenos but trace sharp ctc to bottom unit.</p> | | | | |
| 6.42 | 7.67 | - | | <p><u>dol-Carb I</u></p> <p>m.g. y dol-Carb maybe little bit gr with abnt Glim bnds and frags ~30% of unit, fol varies from ~40° to 65°, in top 30 cm of dol-Carb ~8% dk min sometimes good min shape cubic?</p> <p>beginning of unit ~19 cm Glim + minor dol vns.</p> | | | | |
| 7.67 | 9.53 | - | | <p><u>dol-Carb II</u></p> <p>m.g. gr dol-Carb with abnt mafic mins in bnds and patches. sul are common in 2%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 9.53 | 9.84 | - | | <p>str fol through bio bnds (flow bndg) up to 1 cm width, 45° @7.80 m and 40° @8.77 m between that wk fol. Only patches of mafic min + sul v.f.g., association with ap!</p> <p>last 37 cm again ~8% dk unknown min, maybe psych?</p> <p>si-Carb mag phenos xtls ~40-50% up to 1 cm, gdmass of ap and dol-Carb, no amph present but psychs.</p> <p>first 19 cm smaller mag xtls max 0.3 cm then sharp zone of increasing size up to max.</p> <p>gradational ctc to upper unit.</p> <p>sul trace.</p> | | | | |
| 9.84 m | 14.84 m | - | | <p>dol-Carb II m.g. gr dol-Carb with abnt v.f.g. mins in bnds and patches, bnds of dol-Carb I are common, as well Glim inclusions some totally brcd.</p> <p>first 57 cm f.g. gr dol-Carb ~50-60% and Glim clsts and time frags forming bndg ~85° TCA, common sul then gradational ctc to only dol-Carb + mafic mins. UV-light indicates high content of ap.</p> <p>@10.78 m - ~10 cm frag of Glim. @11 m - ~3 to 5 cm frag of Glim.</p> <p>@10.88 m - dol-Carb I vn cutting ~20° and ends 11.23 m containing ~3% blk unknown min, more dol-Carb I vns at around 12.5-12.7 m and 11.4 m (3 cm) and 13.5-13.8 m.</p> <p>12.69 to 13.14 m - brc of up to 4 cm qtz clsts and same sized Glim clsts in dol-Carb gdmass ~85% clsts. same from 13.81 to 14.31 m.</p> <p>@14.05 m - gradational ctc to increasing bio ctc with c.g. bio up to 0.5 cm @14.53 m which appears to be a sharp ctc to following dol-Carb.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 14.84 | 21.59 | - | | <p><u>Glim + WR + dol-Carb</u> mix of altd (Glim)? and unaltd WR (metavolcanic) with vns of dol-Carb with variable size up to 37 cm, text vary from brcn to flow bndg.</p> <p>16.20 m to 16.32 m, 18.62 m to 19.01 m, 19.42 m to 19.63 m - bigger dol-Carb, all intersections are m.g. gr Carb with some minor blk unknown min (pych?).</p> <p>WR colour is y-br to gy, they are SiO₂ rich (hardness ~7) are commonly only brcd and have common sul v.f.g.</p> <p>Glim is f.g. to m.g. common in association with dol-Carb vn (w).</p> <p>~20 to 30% Glim, 5-10% big Carb vns.</p> <p>and ~15% small w Carb, ~30% unaltd WR.</p> | | | | |
| 21.89 | 22.68 | - | | <p><u>dol-Carb</u> m.g. to c.g. gr Carb, abnt blk unknow min (pych?), all around 1 mm in size, no min shape?, some bnds of dkr Carb, medium fol ~40°. sul trace.</p> <p>niton indicates >500 ppm Ta and ~1500 ppm Nb.</p> | | | | |
| 22.68 | 44.86 | - | | <p><u>Glim + WR + Carb + amph rich vns</u> Glim and WR are ~60% of unit and form bedrock of several different dol-Carb dykes and vns unmineralized? w dol vnlets are within bedrock and caused brcn, bigger vns of dol-Carb with abnt blk min (pych?) are cutting mostly with sharp ctc. some bnds have ~20% amph v. lt b euh.</p> <p>@37.90 m - a clay filled zone, could be fit gouche.</p> <p>22.95 m to 23.69 m - m.g. Carb vn, abnt dk gy Carbs, poor mineralization, blk anh min trace. same 24.22 m to 25.04 m with inclusions of bio forming str fol 30° TCA, flow bndg?, sharp lower ctc to bedrock.</p> | | | | |

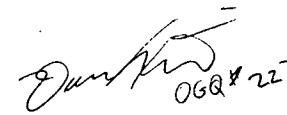
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 44.86 | 45.79 | - | | <p>@24.85 m - first bnd/occurrence of amph rich Carb, 1 mm b, long grains are common, as well unknown blk min (pych?), in dol-Carb gdmass, following bedrock has b mins as well but more mass.</p> <p>further amph intervals are: 25.76 m to 26.05 m, 27.83 to 27.88, 31.73 m to 31.95, 32.5 to 32.7 m, 33.6 m to 33.78 m, 34.78 m to 35.10 m, 35.62 to 36.11 (several small vns).</p> <p>dol-Carb with dk min (pych?) intervals: 28.88 m to 28.96 m, ~30 cm around. 31.5 m (lots of smaller dykes), 34.41 m to 34.53 m.</p> <p>overall ~40% Glim, 20% WR, 25% unmineralized Carb dykes, 15% mineralized Carb dykes.</p> <p><u>dol-Carb + mag</u> m.g. to c.g. gr Carb with lots of blk unknown mins (pych) and a bnd ~5-10 cm of mag rich Carb.</p> <p>~8% pych? and ~5% mag in bnd @45.20 m 45° TCA.</p> <p>lower ctc discontinuous.</p> | | | | |
| 45.79 | 54.39 | - | | <p><u>WR + Glim + dol-Carb</u> WR and Glim form again bedrock for dol-Carb vns and dykes, c.g. Glim ~40% of bedrock, rest is WR.</p> <p>dol-Carb vns with blk min (pych?) intersections: 49.07 to 49.30, 47.09 to 47.43, 51.5 to 51.73 and some 2 cm vnlets before, smaller vns ~1 cm in whole unit 3-5% not mentioned.</p> | | | | |
| 54.39 | 57.13 | - | | <p><u>Si-Carb</u> mag pheno up to 3 cm in size, all broken, concentrated in certain areas, ap patches and dol-Carb are f.g. to m.g. and form gdmass.</p> <p>55.28 m to 55.79 m - c.g. Glim + ~ 10% pych?, 2400 CPS at max, no mag.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 57.13 | 60.57 | - | | <p>sharp ctc to lower unit.</p> <p>~1000 CPS in unit avg.</p> <p>pych? All over 5-7%.</p> <p>sul patches common up to 1 cm.</p> <p><u>WR + Glim + dol-Carb</u></p> <p>~70% Bedrock. ~70% Glim rest is SiO₂-rich phase.</p> <p>no big mineralized dol-Carb vns but ~12-15% of all dol-Carb vns have visible pych?, rest is unmineralized vnlets of w dol-Carb, m.g.</p> | | | | |
| 60.57 | 61.50 | - | | <p><u>si Carb</u></p> <p>Mag phenos ~20-30% up to 2 cm with ~20% amph, b c.g. and ap + bio + carbonate (dol) gdmass pych? common ~1-3 %.</p> | | | | |
| 61.50 | 76.48 | - | | <p><u>WR + dol-Carb + Glim</u></p> <p>~80 Glim and ~20% WR = Bedrock, WR mostly clsts, commonly cut and brcd by up to few cm, w dol-Carb, unmineralized.</p> <p>some bigger mineralized vns cutting @65.25 to 65.71 (with Kfsp?, p patches ~5% m.g.), 70.86 to 71.10 m, 71.31 to 71.94, 75.64 to 75.86 m - all are m.g. ~3-5% pych and have y-gr dol-Carb gdmass + ~10% ap.</p> <p>@71.93 to 73.07 m - intersection of almost mass bio gdmass, f.g. to m.g. and regular dol phenos ~30% all ~0.5 mm sized, sul are common. fol defined through fine dol-Carb bnds 80°.</p> | | | | |
| 76.48 | 80.89 | - | | <p><u>dol-Carb + si-Carb dyke</u></p> <p>m.g. gr dol-Carb with ~10% ap abnt pych? grains ~4% homo sample, fl trace but patches 0.5 cm in top part, (last evidnece for stage 3?).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 80.89 | 102.79 | - | | <p>76.64 m to 77.05 m - si-Carb dyke >80% mag phenos, some pychs? ~2 to 5%.</p> <p>upper ctc sharp ~55°. lower ctc ~65°.</p> <p>Glim m.g. Glim brcd, ~2-3 cm clsts dol-Carb filling common bigger up to 20 cm mineralized dol-Carb vns (pych?) clsts and zones of WR, a b phase occurs within a gdmass of f.g. y Carb.</p> <p>overall ~35% Carb, ~50% Glim, ~10% WR, rest sul, pych (within Carb vns), ap.</p> <p>fol varies within few cm to m (fol @97.24 = 35°, fol @97.10 = 65°), sometimes occurs strong sometimes no fol.</p> <p>101.49 to 102.79 m. Glim with dol phenos up to 0.5 cm + ~30% dol-Carb vns forming brcn text.</p> | | | | |
| 102.79 | 106.95 | - | | <p>dol-Carb hetero dol-Carb, m.g. y, lots of Glim clsts and bnds, locly up to 60%, avg ~10% pych? occurs in bnds, patches and various grain sizes up to 0.3 cm mostly anh.</p> <p>unknown gr min patches @103.27 m 2 x 2 cm, cleavage, hardness <6.5 but not UV active?</p> <p>108.82 to 104.35 m - best mineralized zone with ~8% pych.</p> <p>106.4 to 106.65 m - Glim inbedded with common sul and same r min?</p> | | | | |
| 106.95 | 210.30 | - | | <p>WR top part is altd to Glim to 108.75 with vnlets of Carb, then ~15 cm dol-Carb with no pych visible, but everything from 107.90-109 m is broken = FZ? followed by the main zone.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mod to str fol rock, basically f.g. to m.g. bio, qtz and fsp all cut by dol-Carb vns, amount varies from ~20% to trace. mod ol-br (5Y 4/4) v.f.g clasts, sometimes longial with fol (clsts), occurs within unit in varies amounts, it is probably Rhy, sometimes solid Rhy interval, sometimes brcd.</p> <p>avg composition: 20-30% bio, ~20% qtz, ~30% fsp, ~10% Rhy, rest dol vns.</p> <p>106.95 to 116.8 m - amount of Carb dykes ~20-40%, all same thickness of ~3-5 mm, amount of Rhy ~20%, last meter of interval is all broken possible FZ? fol str 65-70° @ 115.03 m defined by main direction of dol-Carb vns.</p> <p>116.8 to ~134.3 m (continous to brcd same rock) - str fol 70° @ 131.30 m, 70° @ 129.20m, 70° @ 125.86 m.</p> <p>117.71 to 118.90 m - ~70% dol-Carb, gy-br, v.f.g. no visible mineralisation, same 130.43 m to 130.57 m but ~100% Carb, dyke?</p> <p>120.68 to 122.95 - enriched in Rhy ~30-40%, same 133.24 to 134.26 m.</p> <p>136.46 m to 137.22 - f.g. bio ~90% with anh (rnd) dol-Carb vug fillings? (minor euh) some sul = trace.</p> <p>137.22 m to 147.3 m - ~50-60% Rhy brc, mostly broken in long clsts so they appear almost as fol ~80° TCA, 139.97 m, 141.38 to 141.8 m - late stage Carb vn, v.f.g. as well 149.84 to 149.96 m.</p> <p>143.58 to 143.67 m - Glim bnd (all f.g. bio) (note: check sample book. 140.84 to 140.93 m?).</p> <p>150 m to ~155.55m - hetero interval with small ~0.2 cm grains (long and fol) to brcd up to 0.8 cm parts with indicated fol, sometimes the dol-Carb and Rhy look like augen. 140.75 m str fol 68° TCA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>155.25 to 174.5 m - Rhy-rich unit (~30-40% locally up to 80%) again different text within few m, 161.22 m to 161.63 m and 162 m to 162.40 m Rhy without noticeable deformation (163.05 to 163.44 m), 156.60 to 168 m - abnt up to 1 mm b-gr mins with sometimes br min in core (cubic), so b-gr min might be altn product? (copper?) locally up to 5%, @ ~164.52 to 164.94 m.</p> <p>b-gr mineralisation seems to be associated with Carb + Rhy etc? also @170 m to 171.30 - ~20% bio (altn=blk wall?).</p> <p>163.34 to 163.44 m - milky qtz vn.</p> <p>fol str @179.60 m ~68° TCA.</p> <p>183.98 to 184.25 m - late stage Carb dyke. @183.97 m patch of r-br min, not on surface but could be REEflc, ~0.5 x 0.5 cm.</p> <p>183.98 to 191.25 m - abnt late stage Carb, v.f.g. usually in ~5-10 cm vns ~10% of interval.</p> <p>186.37 to 189.46 m - text seems different, less bnded more diffuse vning. reaction zone @ intruded Carb vns, m.g. to c.g. outer rim and usual finer grained core, lots of flts? circular Carb vns.</p> <p>@201.9 m - patch of euh qtz? In fsp and bio gdmass? ~8 cm.</p> <p>EOH</p> | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 537366.21 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 07, 2010 | Downhole Survey: Yes |
| Expl. Area: Star Trench | Northing (m): 6310183.35 | Rig Type: Discovery I | Date Completed: Aug 08, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087774 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 1.52 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 240° | Core size: BTW | End of Hole: 163.36 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: P.Schmidt | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.36 | 17.47 | - | | <p><u>Glim + WR + dol-Carb vns</u></p> <p>hetero intervall, litho changes within 10's cm.</p> <p>Glim usually f.g to m.g., abnt unmineralized? f.g. y dol-Carb vns up to 20%. Sometimes the dol-Carb brc the Glim vns (vnlets are usually ~1 mm).</p> <p>WR is si-rich, f.g. to c.g. gy-y, patches of Glim are common within WR.</p> <p>beside dol-Carb in Glim there are bigger vns of dol-Carb cutting both Glim and WR. Common mins in the usually m.g. gy dol-Carb are small ~0.1 cm br/blk and vary in amount from trace to locly 5%. ap is indicated 8-20% with UV light. towards ctc zones of dol-Carb vns It bands are common.</p> <p>Overall sul are trace but appear sometimes in nuggets.</p> <p>0.36 m to 1.11 m - WR with minor Glim patches and a dol-Carb vn ~5 cm cutting from 0.52 to 1.11 m almost parallel TCA ; ~2% pych? but really small grain size.</p> <p>1.11 to 2 m - Glim with ~15% vnlets (brc?) of dol-Carb + ~1 cm mineralized dol-Carb vn, again f.g.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>2 m to 2.74 m - WR + ~10% bio, v. dk gy colour. Some dol-Carb vns cutting through with bio rim around it, SiO2 rich rock + K (potassium metasouatism) → bio → blackwall.</p> <p>2.74 m to ~3 m - brc? clsts of v.f.g. y hard rock (Rhy?) + Carb clsts, minor mag clsts/xtls cemented together with hard met? gy, hard min, could be sph? High density → heavy piece is broken and might be there through tectonic influence → fault?</p> <p>3 m to 4.6 m - Glim + ~30% dol-Carb (10% vnlets, 20% big dol (mineralized) Carb vn(s)) minor pieces of WR.</p> <p>4.6 m to 7.4 m - WR, again v. dk, some areas brcd by dol-Carb and altered to Glim.</p> <p>7.4 m to ~8 m - sharp ctc to dol-Carb vn, 50° at upper ctc, 50° at lower ctc. Carb is gy-gr, mineralization concentrated at both ctc and bndg of bio forms str fol.</p> <p>8 m to 10.16 m - mix of ~30 % WR, 30% dol-Carb and 40% Glim, no fol, text all mixed up with dol vns >1 cm are mineralized.</p> <p>10.16 m to 11.34 m - Glim with ~20-40% dol-Carb vnlets, text reminds of extension crack filling, lower ctc sharp to ~5 cm dol-Carb vn.</p> <p>11.34 m to 17.47 m - WR, amounts of bio ~10-20 % but vary str locly, also text, sometimes mass, sometimes brcd WR, amount of dol vns changes as well avg ~3-5%. 15.09 to 15.43 m - fl bnds and patches, lower ctc to interval is sharp 30°.</p> | | | | |
| 17.47 | 34.50 | - | | <u>brc (WR, dol-Carb, Glim)</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>unit is basically same as above but mostly brcd and healed again. Probably old fault zone?</p> <p>Carb appears more often ~40%.</p> <p>17.47 m to 18.47 m - deformed (visible by irregular fol of bio bnds) and at the lower interval brcd dol-Carb. pych in patches but more concentrated towards clst ctc. Glim between clsts.</p> <p>18.47 to 22.96 m - WR, lots of bnds cutting every direction sometimes brcd but overall more competent than Carb. Some mineralized dol-Carb vns but again deformed. Late stage Carb vns seem to be undeformed - v.f.g. no mineralization visible, gr.</p> <p>@21.40 m - WR again brcd.</p> <p>22.96 m to 23.72 m - dol-Carb, poorly mineralized f.g to m.g. again broken and filled with bio. Lower ctc sharp but irregular to Glim.</p> <p>23.72 m to 24.36 m - Glim, m.g. only ~5% dol-Carb vnlets. Then to 24.44 m dol-Carb bnd/vn.</p> <p>24.36 m to 31 m - WR, abnt bnd, brc and alt. dol-Carb dyke runs almost parallel TCA. within it clasts/patches of gr colour, f.g. to m.g. probably diopside (26 m to 26.5 m) + fl patches and bio. Some of the WR remind in appearance of Carb (mineralized) + bio, but are too hard and don't fizz. bio in few patches altered to chl (26.69 m) bio rich WR clsts in brighter WR almost pure qtz (29.72 m). dol-Carb rich gdmass from ~29.00 to 31.63 m (dol-Carb at that pt→AD-check core) .</p> <p>31.00 m to 34.5 m - very brcd WR all clsts ~2 cm, minor in some clst size brcd Carb vns filling between clsts again SiO2 rich but f.g. (WR brc goes to at least 35.14 m).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 34.50 | 61.41 | - | | <p>400-600 CPS, 230 ppm U, 20 ppm Th.</p> <p><u>Glim + dol-Carb</u></p> <p>~40-60% Glim, 40% dol-Carb and minor WR clsts, suls trace, 2 kinds of dol appearances, in small vnlets within the Glim causing brc and bigger mineralized m.g. dol-Carb vns. Carb mineralization beside suls are blk pychs, vary in size, and ap (uv light).</p> <p>@36.8 m - ~20 cm bnd of ~1700 CPS c.g. bio + pych ~ 80% of mafics are pych (elevated RA ~300 bg).</p> <p>39.48 to 39.9 m - ~20° TCA si-Carb zone with mag phenos up to 1.5 cm. ~30-40% of rock gdmass is gr, c.g. and has lots of ap. Rusty suls ~5%.</p> <p>40.76 to 41.09 m- same as above but a ctc (sp?) is ~40°.</p> <p>46.64 to 47.20 (47.39?) m - Glim brcd, clsts ~1.5 cm, gdmass dol-Carb ~40%.</p> <p>50.34 m to 50.52 m - gr-gy v.f.g. undeformed Carb dyke →late stage Carb?.</p> <p>55 to 61.41 m - Glim 70-80% f.g. to m.g. mass.</p> <p>39.48 to 50.52 m - elevated RA ~300 bg.</p> | | | | |
| 61.41 | 78.72 | - | | <p><u>WR + Glim + dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 78.72 | 82.57 | - | | <p>same as unit before but abnt unaltered? WR ~ 30-40%, gy f.g. to m.g. silica rich rock (hard). Often with ~0.1 cm grains of euh min, gr-b, cubic? But altered to bio. (Around 10% of grains have core of min left. Ex) 62.86 to 63.46 m.) Up to 20% of rock.</p> <p>Carb vns in unit ~15% and cause a rim of bio → blk wall (c-metasomatism). @ 62 to 64 m - lots of vns, multiple intrusion phases, at least 4.</p> <p>64.14 m to 64.5 m- c.g. all grains ~0.1 cm euh (bio, dol, fsp? →softer than qtz, cr colour, didn't see cleavage, too small.</p> <p>68.87 m to 69.14 m - y c.g. dol-Carb vns, no mafic mins at alt. same 73.9 to 73.98 m.</p> <p>71.20 m to 71.73 m, 72 m to 72.33 m, 72.72 m to 72.95 m, 77.52 m to 77.82 m - bigger Carb vns, m.g. gr dol-Carb, few ap bnds, gy ore min ~ 5-7% but not mag, maybe sph (hard, no cleavage) suls trace.</p> <p>77.82m to 78.72m - WR + dol-Carb + bio min (alt product) WR is gy, f.g. to m.g., hard - SiO2.</p> <p><u>dol-Carb</u></p> <p>f.g. - m.g. gr-gy dol-Carb with clsts of y dol-Carb (m.g. to c.g.) in it (~lim 3% blk min(pych?) , mostly anh are all over the core but still in trace amounts. Last ~50 cm only y Carb.</p> <p>more pych? Concentrated in top ~25 cm.</p> <p>79.6 m to 80.02 m - bnd (big clast? of WR).</p> | | | | |
| 82.57 | 87.61 | - | | <p><u>WR</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 87.61 | 106.00 | - | | <p>f.g. to m.g. y SiO2 rich WR ~20 to 40%, abnt ~10% gy met ore mins? Probably sph, c.g. all over the core, minor bigger Carb vns, all dol, some late stage Carb vns up to 3 cm. within the WR abnt v. small vnlets of Carb, and bio ~15% together, suls beside sph? = trace 2x ~30 cm Glim zone in it.</p> <p><u>Glim + dol-Carb</u></p> <p>~60% dol-Carb vns, different stages/mineralizations small brcg dol-Carb vns within Glim, no mineralization? ~60% of all dol vns. Bigger dol vns are usually mineralized, with blk suh min ~1 mm (pych?). one si-Carb vn, two zones of v. high RA ~2500 and 1400 CPS overall higher RA ~400 to 700.</p> <p>87.61 to 88.14 m - f.g. gr-gy dol-Carb, late stage? But very broken →fault zone?</p> <p>88.44 m to 91.29 m - ~70% Glim rest is dol-Carb vn, m.g. abnt sulf and bio some WR? Minor pych ~1-2%.</p> <p>91.29 m to 91.82 m - first 21 cm half Glim half Carb, c.g. abnt pych and bio, suls ~3%, last 32 cm only Carb, pych up to 0.3 cm euh, ~20% Portal XRF analyzer indicates 1300 ppm U, 2600 ppm Ta, 8700 ppm Ub, 2800 CPS with minispec, ~300 ppm U, 50 ppm Th and 1.3% K.</p> <p>93.06 m to 93.24 m - Carb vn.</p> <p>94.42 to ~95 m - gr f.g dol-Carb but clay and pellets of Carb indicates FZ + core loss →cave?</p> <p>95 to 95.05 m - si-Carb ~30-40% mag phenos 0.5 cm, gr gdmass.</p> <p>95.44 to 95.67 m - Glim with usual amount of dol-Carb vns but the carry high amount of 0.2 cm euh crystals pych? + c.g. bio, 1200 CPS.</p> <p>96.5 to 96.88 m, 97.21 to 97.53 m - bigger m.g. gr dol-Carb vns. abnt smaller vns occur beside that.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 106.00 | 110.41 | - | | <p>~99.57 m - (BX 18) the RA drops, as well amount of gr vns.</p> <p>99.65 to 100.04 m, 100.35 to 100.62 m - some other smaller spots, y-w dol-Carb hardly mineralized.</p> <p>102 m to 102.5 m - almost mass v.f.g. bio with small dol crystal, (euh),~10%.</p> <p><u>brc (Glim, dol-Carb, WR)</u></p> <p>Glim mostly brcd ~30% WR less brcd but bigger clsts (~4-5 cm) also up to 10 cm. dol-Carb v. late phase and might be responsible for most brcn because it is the gdmass/clst infill, but also few Carb clsts.</p> <p>106.56 m to 108.9 m - mostly dol-Carb but y-w dol-Carb cut by v.f.g. gy-gr clsts in a 50 cm zone of all kind of different lithos.</p> <p>110.13 m to 110.35 m - clsts of y v.f.g. hard rock, probably Rhy.</p> | | | | |
| 110.41 | 123.03 | - | | <p><u>dol-Carb</u></p> <p>f.g. to m.g. gy mass Carb dol. Some spots m.g. to c.g. y dol-Carb clsts? suls and anh blk min (pych?) are trace but loclly up to 5%.</p> <p>110.41 to 110.66 m - y dol-Carb ~5% anh blk min (pych?) a 3 cm vn of mnz (c.g.) and pych?</p> <p>111.77 m to 112.72 m - ibd WR, b-gy, hard, brcd and filled by Carb vnlets (very small) last 28 m altered to bio.</p> <p>@117 m - a ~10 cm zone of up to 5% pych at/around fracd zone.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 123.03 | 163.36 | - | | <p>117.66 m to 120.95 m, 121.36 m to 122.03 m- Glim + y dol-Carb zones, probably brcd and altered WR.</p> <p><u>amph WR</u></p> <p>mod fol amph, bio, Carb rock. b colour through ~40-50% amph, carbonates f.g. itsl ~5-10%, also has vns cutting but mostly following fol ~5%. bio f.g. in bnds throughout ~20-30%. suls are trace.</p> <p>fol @148.30 m = 80° TCA @141.10 m =85° TCA @161.58 m = 70° TCA</p> <p>124.18 to 125.17 m - tan y-br litho is dolomitic shale/carbonate sed dol (HCl rxn on scratched) few f.g. qtz vnlets; no amph. -APR</p> <p>125.27 m to 127.93 m - additional to amph WR ~0.5 cm phenos of tan y-br min, v. good cleavage not harder than 5, not fizzing? Could be bar or some kind of carbonate ~10%.</p> <p>135.5 m to 137.90 m - ibd of ~40-50 % Carb, 30% y hard f.g. Rhy? bio ~ 15 @137.78 m qtz vn? With asbestos b amph rim.</p> <p>blk f.g. needle amph show at 135.88 m. - APR</p> <p>142.93 m to 148 m - Carb ~20%, WR (silica-rich) ~40% and ~35% patches and vns of diopside + bio and some r pervasive min.</p> <p>149.11 m to 150.13 m - Carb rich + diopside rock f.g., diopside more concentrated at lower etc.</p> <p>late stage Carb vns (over 2-5 cm) 154.86 m to 155.05 m, 159.84 m to 160.34 m, 163.05 m to 163.24 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|-------------|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | EOH | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|-----------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 537316.81 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 09, 2010 | Downhole Survey: Yes |
| Expl. Area: Star Trench | Northing (m): 6310167.69 | Rig Type: Discovery I | Date Completed: Aug 10 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087774 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 1.52 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 240° | Core size: BTW | End of Hole: 120.00 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: P. Schmidt | |

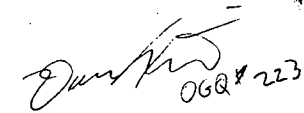
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 2.55 | 43.30 | | | <p>Glim with abnt Carb vng</p> <p>unit is hetero, colour and text changes multiple times per run, different Carb types, pieces of WR, intrusion ang (all diffenet ang) and grain sizes are the reason for it, mineralogy changes within few meters but is not as variable as text etc.</p> <p>Carb types:</p> <p>0.1-2 cm - vnlets in Glim probably caused brcn m.g. y unmineralized? dol-Carb, maybe same y Carb forms up to 30 cm zone.</p> <p>up to 40 cm vns of f.g. to m.g. gr-gy dol-Carb. bio flakes ~2-5%, as well in most cases gy met cubic? min, hardness ~4-5, cleavage? Maybe cassiderite? Up to 25% (no r streak in rock so probably not hem). same Carb? has sometimes mag xtls in same amount and grain size.</p> <p>2.55 m to 3.22 m - broken and rusty wthring Glim + y Carb.</p> <p>3.22 m to 4.15 m - gy dol-Carb abnt flakes of bio, all f.g. to m.g.</p> <p>4.15 m to 6.34 m - brcd and dol vn cutted Glim ~10% dol-Carb, 5.17 m to 5.24 and 5.33 to 5.38 m - dol-Carb vns with c.g. bio ~0.5 x 0.5 cm xtls.</p> <p>6.34 to 6.70 m - f.g. gr dol-Carb vn.</p> <p>6.70 to 11.36 m - Glim and gy hard WR, ~60% WR? brcd? when Carb vns higher amount of bio → alt product?, suls trace.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>11.36 to 12.30 m - sharp ctc at both sides ~60°, Glim with phenos of Carb (dol?) w; good cleavage ~60% Carb and 40% bio (looks very dk, more bio?).</p> <p>12.30 m to 12.46 m - y dol-Carb vn, c.g. trace pych?.</p> <p>12.46 m to 13.38 m - Glim ~70%, 20% dol-Carb vns, 10% WR?.</p> <p>13.38 m to 13.47 m - y dol-Carb vn.</p> <p>13.47 m to 13.72 m - WR, brcd ~60% and Glim + dol-Carb vn filling.</p> <p>13.72 m to 13.86 m - dol-Carb, y m.g.</p> <p>13.86 m to 15 m - WR with irregular dol-Carb vns and blk wall around Carb (bio).</p> <p>15 m to 15.06 m - dol-Carb vn, y ~5% pych?.</p> <p>15.06 m to 16.14 m - Glim + dol-Carb.</p> <p>16.14 m to 16.47 m - y dol-Carb.</p> <p>16.47 m to 18.40 m - gy dol-Carb patches + vns and Glim.</p> <p>18.40 to 26.01 m - ~60% gy m.g. dol-Carb and 40% Glim, dol-Carb in vns up to more than 1 m, abnt ~8-10% gy cubic, met min, could be cassiterite or something else, pych? no y Carb except one patch at 25 m.</p> <p>26.01 m to 26.87 m - y dol-Carb vns up to 8 cm in mass Glim ~70° TCA (Carb vns).</p> <p>26.87 m to 29.43 m - ~80% Glim (mass), 15% v. small vnlets. @28.15 m - center of di patch + y min and sul ~11 cm.</p> <p>29.43 to 29.75 m - mass Glim with dol pheno, same as 11.36 m to 12.30 m</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 45.30 | 52.21 | - | | <p>29.75 to 31.93 m - WR (si-rich) + bio in various amounts, all f.g.</p> <p>31.93 m to 32.48 m - Glim with abnt Carb vning, gy and y, y dol-Carb cuts almost sharp, gy dol-Carb irregular.</p> <p>32.48 to 33.01 m - fol y + gy Carb vn, sul trace, ~1-2% pych?</p> <p>33.01 m to 43.26 m - same as 18.40 to 26.01 m @43.13 m - 6 (sp?) up to 0.5 cm mag phenos.</p> <p>43.26 m to 43.57 m - f.g. gy Carb.</p> <p>43.57 m to 44.23 m - gy-br m.g. to c.g. Carb, ~8% of unknown min (cassiterite?).</p> <p>44.23 to 44.88 m - gr f.g. Carb with mafic itsl min (bio?) and ~20 cm inclusion? (or vn) of mag bearing rock with ap gdmasss, ~400cps (si-Carb?).</p> <p>44.9 to 45.30 m - y f.g. dol-Carb brod by small dk gy vnlets ~0.01 cm.</p> <p>45.30 m to 45.77 m - v.f.g. gr-gy mass/homo F-Carb?, abndt gr clear mins, mnz? ap? portal analyzer indicated ~1% < REE late stage Carb?</p> <p>si-Carb + Glim top 30 cm to 40 cm of unit are broken, FZ?</p> <p>~50% Glim, f.g. bio with abnt ~10% dol-Carb vnlets, up to 1mm wide, w.</p> <p>~50% si-Carb, mag up to 15 mm xtls (30%), b amph c.g. up to 2 m ~30%, ~35% dol-Carb, f.g. (no ap?)(UV) minor pych (~1-3%) and trace sul. dol-Carb forms rim around amph?</p> <p>whole unit is mixed up, fingering into each other? ctc ang vary and are not always clear.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 52.21 | 57.40 | - | | <p><u>Glim</u> v.f.g. bio with ~40%, ~0.5 mm dol-Carb pheno, same sul patches/grains. 54.46 m to 55.5 m - ibd of str fol dol-Carb + bio bnds, sul rich patches.</p> <p>55.14 m to 55.82 m - all broken, FZ?</p> | | | | |
| 57.40 | 77.40 | - | | <p><u>Glim + Carb + WR</u> again, like in first unit quick changes in mineralogy and text, different units will be described when they appear.</p> <p>57.40 to 57.86 - brcd Glim with dol-Carb vnlets as infill.</p> <p>57.86 to 58.04 m - v.f.g. late stage Carb.</p> <p>58.04 m to 59.29 m - Glim with ~40-60% Carb vns up to 25 cm thick, other cr dol-Carb and v.f.g. w min + Glim together. w min could be qtz? within vns often psych?</p> <p>59.29 m to 62.19 m - gy-gr Carb?, ~30-40% ap (UV) m.g. abnt psych, anh blk min, from 60.26 to 60.39 m v.c.g. bio + mag, big sul patches and abnt psych. 61.68 to 61.75 - anh psych abnt, also 62 to 62.19 m</p> <p>62.19 m to 65.26 m - Glim with dol-Carb vnlets and dol-Carb ibd from 63.16 m to 63.60 m.</p> <p>65.26 m to 65.91 m - WR, brcd hard gy with Glim vnlets.</p> <p>65.91 m to 66.05 m - late stage dol-Carb, v.f.g. gy-gr.</p> <p>66.05 to 77.40 m - Glim, f.g. bio with ~30% dol-Carb vnlets, ~60% of unit, other 40% is m.g. y-w dol-Carb vn with abnt blk anh psychs. biggest intersection: 70.83 m to 71.82 m, also some late stage Carb cutting.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 77.40 | 84.33 | - | | <p><u>brcd WR</u></p> <p>hetero sample, y and gy si-rich rocks, brcd and filled with bio + dol-Carb, when dol-Carb vns and vnlets over certain amount only Glim, Glim is probably alt product sul = trace.</p> | | | | |
| 84.33 | 95.59 | - | | <p><u>WR/Glim</u></p> <p>f.g. hard w min with f.g. bio and bio bnds ~30% v.c.g. euh dol-Carb xtls. abnt blk euh (cubic) min in gy WR-rich spots (93.24 m).</p> | | | | |
| 95.59 | 120m | - | | <p><u>WR/ amph-rich</u></p> <p>fol/shisted amph, bio, Carb rock.</p> <p>~40% b m.g. amph, ~30% bio, ~25% carb and carb vns most of them are with itsl c.g. mnz? (gr clear), portal analyzer ~3.5% REE at 112.95 to 113.23 m mnz in patches. some y WR trace, clsts?</p> <p>amounts of min vary locly but whole unit appears pretty consistant.</p> <p>EOH</p> | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 541407.56 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 10, 2010 | Downhole Survey: Yes |
| Expl. Area: MC Exposure | Northing (m): 6311651.52 | Rig Type: Discovery I | Date Completed: Aug 11, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2111148 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 2.74 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 240° | Core size: BTW | End of Hole: 120.00m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 5.20 | 17.82 | - | | <p>calcareous Scht:</p> <p>m.g.; med gy (N5) to med b-gy (5B 5/1) to dk gr-gy (5G 4/1); str fol; dominately chloritized bio with elongate blebs of cc in fol direction; few dol ~4 mm vns; common v.f.g. po in fol bnds; few 0.5 cm qtz vns; fol avg = 80° TCA.</p> <p>*note: abnt fractured pieces from drilling. *5.0-5.20 m; Ovb.</p> <p>2% po, 4% dol, 30% bio, 30% chl, 34% cc</p> <p>abnt v.f.g. bio at lower ctc.</p> | | | | |
| 17.82 | 19.12 | - | | <p>dol-Carb</p> <p>m.g. to c.g.; lt gy; highly fraced by qtz vns and bio vnlets; c.g. bio on both upper + lower ctc; ang pieces; common chloritized bio.</p> | | | | |
| 19.12 | 21.66 | - | | <p>calcareous Scht:</p> <p>m.g.; med gy (N5) to dk gr-gy (5G 4/1); str fol; dominately chloritized bio; common elongate po blebs in fol direction; fol ~80° TCA.</p> | | | | |
| 21.66 | 23.09 | - | | <p>purite - po Scht</p> <p>f.g.; gy-blk (N2); mod fol; v.f.g. blk bio mtx with two generations of po; first generation is bnded with fol; second is vns with c.g. eud py x-cutting fol; fol = 65° TCA.</p> <p>@22.05 m grades into calcareous chloritized bio Scht.</p> | | | | |
| 23.09 | 29.56 | - | | <p>brcd calcareous Scht</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 29.56 | 37.43 | - | | <p>f.g. to c.g.; med b-gy (5B 5/1) to dk gr-gy (5G 4/1); str to mod fol; micas parallel alignment; clsts are sub-rnd and elongated to fol direction; clasts are m.g. dol; abnt chloritization of bio; str fol with less clsts (~5%) from 25.60 to 28.45 m .</p> <p>15% bio, 15% dol, 30% cc, 40% chl.</p> <p>26.55 m fol = 55° TCA.</p> <p>bio % increases in last 2 m with common (max 5 x 8 cm) large sub-ang clsts.</p> <p>lower ctc is undulating ~78° TCA.</p> <p><u>chloritized bio dol-Carb</u></p> <p>m.g. to c.g.; gy-b-gr (5BG 5/2) to lt gy (N7); common cataclastic text; abnt frags with bio or chl in frags; mass; common speckled fl blebs in 2-20 cm sections (poor bnding); fl blebs occur in c.g. dol mass sections with little bio frags; few v.f.g. diss py; few <1 cm qtz vns.</p> <p>gradational lower ctc; dol clsts become elongated + seperated by str fol bio bnds.</p> | | | | |
| 37.43 | 47.51 | - | | <p><u>brcd dol-Carb with bio mtz</u></p> <p>abnt clsts of various sizes with bio wrapping around the clsts; common c.g. qtz vns with undulating + brc ctc; few chloritized bio bnds; common augen dol 1 x 2 cm; three types of clsts present; common f.g. qtz vns of clsts present; common f.g. qtz vns 0.5 cm wide; bnds of 50% bio/micas (few chl) from 5-15 cm wide with clsts fol; common bnd of c.g. y-gy to lt gy dol-Carb, mass from 10-40 cm wide.</p> <p>Three typers of clsts/augens:</p> <ol style="list-style-type: none"> 1. f.g.; med lt gy (N6); dol; low mineralization; homo; rectangular + elongated; sub-rnd + prismatic; 0.5 x 3 cm. 2. m.g. gy-b-gr (5 BG 5/2); chloritized dol-Carb; mass; frac; few speckled bio/chl. 3. c.g.; y-gy (5Y 7/2) to lt gy; mass; dol-Carb; few speckled bio; 10 to 30 cm bnds. 4. few v.f.g. tan WR; 0.3 x 2 cm elongate. <p>39.55 to 39.85 m; 41.43 to 41.60 m - brc clear w c.g. qtz bnd.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 47.51 | 69.56 | - | | <p><u>augen dol Scht</u> dominately str fol with few sections mod fol; abnt itsl f.g. dol in bio; 75% f.g. bio which wraps around augen dol; f.g. to m.g. y-gy to lt gy dol augens common 0.5 x 0.7 cm to few 2 x 3 cm; slight elliptical elongation of augens in fol direction; few y-gy dol bnds; common gradational chloritized bio; few diss f.g. sul; avg fol 80° TCA.</p> <p>49.31 to 49.37 m, 51.12 to 51.23 m, 52.54 to 52.40m - m.g. to f.g. y-gy to lt gy dol-Carb; few deformed qtz vns; few diss f.g. bio flecks; few diss f.g. sul; trace ap.</p> <p>58.32 to 58.46 m - ibd. v.f.g.; tan ol gy; dol-Carb; common v.f.g. med gy frags; few diss pale peach f.g. min; common itsl f.g. cc.</p> <p>59.02 to 59.30 m, 59.57 to 59.82 m, 60.16 to 60.45 m, 66.66 to 67.10 m, 67.30 to 67.70 m, 68.10 to 68.43 m - ibd gradational ctc; m.g. med gr-gy; dol-Carb; common f.g. bio streaks and common chloritized.</p> <p>62.92 to 62.99 m; 63.93 to 64.09 m; 64.90 to 65 m; 68.40 to 68.47 m - c.g. w - clear qtz vns with frac ctc; common itsl f.g. cc.</p> | | | | |
| 69.56 | 72.45 | - | | <p><u>dol-Carb with itsl fol bio</u> m.g.; med gy; crystalline; common f.g. itsl bio; fol bio; few v.f.g. py (sul) diss; few p fl blebs; ~10% ibd 1-10 cm ibd 90% concentrated fol bio.</p> <p>@71.27 m - c.g. w-clear qtz brc clst.</p> | | | | |
| 72.45 | 116.36 | - | | <p><u>calcareous Scht</u> m.g. br-gy (5YR 4/1) str fol bio; abnt v.f.g. itsl cc; few diss f.g. sul; few chloritized bio; str fol; over 60% bio; 30% cc; 10% dol.</p> <p>72.45 to 75.85 m - common augen dol 0.3 x 0.7 cm to 1.5 x 3 cm; y-gy; bio wraps around augens.</p> <p>78.42 to 79.87 m - wk fol, less bio, common chloritization + f.g. cc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 116.36 | 120.00 | - | | <p>fol @83.55 m = 60° TCA.</p> <p>92.40 to 93.70 m - increase in cc ~85%; lt gy f.g.; itsl bio.</p> <p>100.20 to 101.27m - 106.45 to 106.77 m - phyllite (py-po) drk gy with fol po + itsl f.g. cc; str fol = 70° TCA; abnt c.g. po @115.50 to 115.65 m.</p> <p>over calcareous Scht interval, mica grains gradually decrease in size. Also increase in sharp f.g. cc vnlets.</p> <p><u>calcareous slate</u></p> <p>v.f.g.; dk gy (N3); v. str fol; few fol f.g. po; abnt v.f.g. itsl cc; common m.g. cc vns.</p> <p>fol @119.00 m = 70° TCA.</p> <p style="text-align: center;">EOH</p> | | | | |

GEOLOGICAL DRILL LOG

David King
OGQ # 223

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 541408.09 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 11, 2010 | Downhole Survey: Yes |
| Expl. Area: MC Exposure | Northing (m): 6311651.81 | Rig Type: Discovery I | Date Completed: Aug 12, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2111148 | Coordinate System: NAD 83, Zone 19 | Rod type: 3 metre | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 5.18 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 240° | Core size: BTW | End of Hole: 72.00 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 1.20 | 11.67 | - | | <p><u>calcareous phyllite</u></p> <p>f.g., pale gr (10G 6/2) - pale b (5 PB 72) - mod gy (N5); Schistose, the parallel, planar arrangement of min grains (platy, prismatic + elipsoid); commonly corrugated micro cleavage causing sheen; f.g. wk fol fl; abnt mod to str fol cc; few 0.6 cm qtz vnlets.</p> <p>trace po, 1% fl, 25% bio, 35% cc, 40% chl.</p> <p>*up to 11m (Br 1 (sp?)) is highly broken up from drilling.</p> <p>@8.15 m - fol = 86° TCA.</p> <p>brc lower ctc.</p> | | | | |
| 11.67 | 19.10 | - | | <p><u>dol-Carb:</u></p> <p>f.g. lt gy (N7); highly fractd with f.g. bio throughout; sections of f.g. bio mod fol 1-8 cm wide; few qtz vnlets; bio commonly chloritized; 47 cm long c.g. qtz vn with ang dol clsts; abnt frags + broken up core.</p> <p>trace po, 8% chl, 10% bio, 12% qtz, 76% dol (+cc).</p> <p>@15.80 m - fol = 60° TCA.</p> <p>gradational lower ctc with increasing micas from 17.80 m.</p> | | | | |
| 19.10 | 21.40 | - | | <p><u>py po slate</u></p> <p>microscopic; gy-blk (N2); str fol; str min segregation bnding; v.f.g. py + po; abnt folding of bnds; po > py; itsl cc from surrounding lithos at upper + lower ctc.</p> <p>gradational upper + lower ctc.</p> <p>fol at lower ctc = 90° TCA.</p> | | | | |
| 21.40 | 36.50 | - | | <p><u>brcd calcareous Scht</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 36.50 | 42.45 | - | | <p>m.g.; gy-b (5PB 5/2) to mod gy (N5); str fol; min in parallel direction; elongation of elliptical clsts; common brc; common augen dol; micas form around eye-shaped augens; vnlets of po common; blebs of mod gr (5G 5/6) chl (or talc?) elongate with fol in brc section; itsl cc.</p> <p>Three types of clsts:</p> <ol style="list-style-type: none"> 1. mod gy (N5) , f.g.; sub ang; 0.5 x 1 cm to 2 x 4 cm in clst size; commonly elongated clsts. 2. y-gy (5Y 8/1) to lt gy (N7); m.g.; sub-ang to sub-rnd; low mineralization within; 1 x 1.5 cm to 3 x 7 cm clst size; commonly rectangular or cigar shaped. 3. Same as clst 2. except with common speckled bio flakes + mafic mins within the clst. <p>21.40 to 22.80 m - str fol; few elongate brc dol clsts. grades into augen dol; itsl cc; clsts increase in size from 0.5 x 0.7 cm clsts; at 21 m fol = 87° TCA.</p> <p>trace talc, trace po, 25% cc + dol, 30% bio, 45% chl.</p> <p>22.80 to 29.60 m - str fol; common elongate brc dol clsts; augen dol clsts with micas wrapped around; pressure shadows forming (similar to grts); common bio altering to chl; clsts are < 3 x 5 cm; at 25 m fol = 70° TCA.</p> <p>trace talc, trace po, 25% chl, 35% dol + cc, 40% bio.</p> <p>28.46 to 29.15 m - f.g.; lt gy (N7); dol-Carb bnds 5 x (7-30 cm long); common bio flecks; few f.g. py; ctc at 80° TCA.</p> <p>29.60 to 34.55 m - str fol; few elongated 3 mm wide augen dol clsts; dominately micas + itsl cc; common cc vnlets sub parallel to fol.</p> <p>34.55 to 36.50 m - mod fol; abnt brc; elongated dol clsts; clsts are a variety of shades of gy with poor mineralization within; f.g. bio wraps around clsts.</p> <p><u>grt amph bio Scht</u></p> <p>v.f.g.; aph; gr-blk (5 Gy 2/1) ; mod fol; few 3 x 4 mm to 1 x 2 cm grt pblic suh; few f.g. cc vnlets; v.f.g gr-blk amph.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 42.25 | 54.73 | - | | <p>4% cc, 5% grt, 43% amph, 48% bio.</p> <p>38.16 to 39.93 m - bio Scht with three types (as described on pg 2) of dol clsts; 1 x 2 cm to 4 x 7 cm size clsts; wk fol; varies from 10 cm str folded fol po Scht to abnt brc dol clst placed interstitially with slight elongation of clsts in similar direction.</p> <p>39.93 to 40.60 m - qtz; w-clear; c.g.; mass; along edges of qtz. bio vnlets common and brc of dol-Carb.</p> <p>40.60 to 40.96 m - bio dol brc carb; bio vnlets brc dol; lt gy (N7) to mod b-gy (5B 5/1); sharp ctc with Scht = 40° TCA.</p> <p>@ 41.90 m - fol = 40° TCA.</p> <p>sharp lower ctc = 65° TCA.</p> <p><u>brcd calcareous Scht</u></p> <p>m.g.; gy-b (5PB 5/2) to mod gy (N5); str fol; min parallel to fol direction; elongation of clsts; three types of clsts present (as described in pg 2) itsl f.g. cc; common augen dol; m.g. bio folding around augens + clsts; common dol bnding max 7 cm.</p> <p>43.26 to 43.73 m - ibd amph bio Scht; few cc vnlets; str fol; no grt. upper ctc = 50° TCA lower ctc = 35° TCA</p> <p>45.61 to 46.30 m - ibd dol-Carb; m.g.; mod gy to mod b-gy; common micro frags.</p> <p>52.86 to 53.30 m - ibd dol-Carb; m.g.; mod gy to y-gy; common micro frags; common qtz vns.</p> | | | | |
| 54.73 | 56.73 | - | | <p><u>grt amph bio Scht</u></p> <p>f.g.; aph; gr-blk (5 gy 2/1); mod fol; few 4 mm x 4 mm to 2 cm x 2 cm. suh grt porphyroblasts; common f.g. cc vnlets; v.f.g gr-blk amph.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 56.73 | 72.00 | - | | <p>5% grt, 6% cc, 41% amph, 48% bio.</p> <p>gradational upper + lower etc.</p> <p><u>calcareous Scht</u> m.g.; mod b-gy (5R 5/1) to b-gy (5YR 4/1) to mod gy (N5); fol = 86 to 90° TCA; v. str fol; common ~2 cm dol bnds; few dol augens with bio folding around; few chloritized bio.</p> <p>trace chl, 6% dol, 40% cc, 54% bio.</p> <p>EOH</p> | | | | |

Handwritten signature and notes: 06Q # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536760.51 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 12, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312089.11 | Rig Type: Discovery I | Date Completed: Aug 14, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087791 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 1.52 m | Note: Metric to imperial rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 348.96 m | change @ 236 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 1.00 | 47.61 | | | <p><u>dol-Carb</u></p> <p>lt gy-pale ol in places, p streaks/patches locky. Mass, mottled/blotchy text. m.g. to c.g.</p> <p>text dominated by w dol grains, sub-ang to sub-rnd. <5 mm with itsl dk aph gdmass, typically y-gr, fl (<15%) patches itsl locky.</p> <p>30 cm zone near top (~15 m) with ang dol xtls with itsl mag (few %) and tan-y-br min.</p> <p>@5 m - ~15 cm gr bnd with 2-3 cm blk-gr border - both soft (chl inside serp?) fl <5% diss in serp/dk gr. at ctc with Carb, serp is invading Carb, 'branches' <2 mm wide.</p> <p>late stage(?) Carb vns x-cut locky, these are f.g./aph, mass, typically pale gr, sharp cts to Carb, may have laminae +/- fl. <1m long. Most common below 19.20 m.</p> <p>8.75 to 10 m - gr-y gdmass is more dominant than dol grains - almost like brc; dol grains sub-rnd and up to 1 cm, <10% floating in gdmass. Near top of this section are dk gr-blk ang frags/clsts, <2 cm- broken off xeno-rocks? Also diss blk equent min, euh/sharp, <4 mm, pych?, few % locky. mineralization: pych?</p> <p>@11.50 m - 25 cm zone with gr bndg. gr min is f.g., vitreous, equent <5% also diss in bnds are f.g. mag and py (few %).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 47.61 | 137.64 | - | | <p>16.35 m to 17.75 m- dol grains not visible, just f.g., mass. rock, lt gy, suc text faint gr patches scattered. cc-enriched (pk under uv). ap diss locly/ in bnds, <30%. mass, f.g. rock +/- continuous down to ~19.50 m.</p> <p>many minor fracs from 12.30 to 15 m.</p> <p>20 m to end - itsl fl is most common, <20% locly.</p> <p>@23.55 m - 8 cm c.g. y dol vn, fl in vugs surrounding edges (up to 30%, ~1 cm thick).</p> <p>~29.90 to 31.75 m - Carb again f.g., mass, suc text pale y, no fl, gr bnds locly. This extends <50 cm into gdmass of surrounding Carb. blk specs diss locly, trace, pych?</p> <p>32.90 to 34 m - lt gy f.g. mass suc text Carb. forest-gr equent min diss locly (<2%) (more patches of this down to 37.50 m).</p> <p>@34 m - 15 cm dk gr bnd, ~60-80% ap under UV. More gr bnds common down to 35.30 m, all ap rich.</p> <p>@45 m - 30 cm frac/brcd zone, Carb/dol/fl clsts/frags surrounded by bio mtx (py diss, trace).</p> <p>37 to 37.75 m - tan-y-br f.g., opaque min itsl to dol grains (in gdmass) up to 30%, doesn't look too similar to stuff seen at top...</p> <p>gradational lower ctc, no fl near end, dol grains no longer visible.</p> <p>interval = 200-300 CPS</p> <p><u>dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>w-lt gy; mass-mod bnd, hetero, branching fracs throughout; f.g. to m.g.</p> <p>lt ol-gy (gr-y) late stage Carb vns x-cut throughout unit. Sharp ctcs, f.g./aph, mass, no ap. These snake in all directions and can be as long as 1.5 m.</p> <p>comp bndg seen locly has various mineralogy: y-gr bnds similar look to late stage Carb vns, no ap. gy bnds typically have diss blk equent min, f.g. (pych?). r bnds (rare) f.g. diss bsn/REFlc? <1% -most in top 10 m (just a few, all <3 cm) and from 83 to 85.50 m.</p> <p>ap throughout is restricted to specific zones of the Carb, mostly lt gy suc text zones (not white dol zones... look very similar) where it exists, ap typically 5-10% and up to 20% locly. mineralization of ap.</p> <p>cc-enriched sections throughout, typically only with dol (no ap or other mineralization). pk under UV.</p> <p>@64.60 m - 5 cm wide mag-rich band, clusters up to 30% (several more bnds from 65.35 to 65.75 m, similar but smaller.)</p> <p>brc zone from 59.50 to 60 m - sub-ang to sub-rd dol clsts supported in r-y mtx (f.g., bsn/REFlc <5% locly, also itsl fl last 5 cm).</p> <p>72 to 77 m - rock is overall dkr, increased gr/ol bnds, gdmass mostly lt gy stuff (with ap, not w dol zones).</p> <p>@78.60 m - <10 cm brc zone, this one bio/Glim mtx (intrusion), shredding gr Carb WR (jagged at ctcs), clsts consist of w dol (ap?) and gr Carb, <5% - mostly mtx. This repeats at ~83.80 m, zone 30 cm long, clsts much bigger and more abnt (up to 10 cm) also clsts of gy-br country rock(?).</p> <p>ibd Glim at 81.50 m, ~10 cm band, f.g. mass, diss dol ~10-25%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| 137.64 | 143.00 | - | | <p>85.90 to 105.50 m and 116 to 118 m - ibd sections of m.g-c.g. rock with itsl fl similar to previous unit, bnds all <2m. grains mostly dol fl up to 40% locly. also y itsl gdmass - Carb (no ap).</p> <p>Locly gr/ol vns. cut up w dol-appears brcd.</p> <p>125 to 134 m - fl patches (few cm <80%) and itsl fl locly. fairly consistently through this section, <20%, text different from previous fl-rich zones further up. (no dol grains, just gdmass fl sort of smeared).</p> <p>136.75 to 137.02 m - ibd dk gr-br Glim?, first appearance of next unit? f.g., mass, dol(?) diss <15%, chl diss (gr colour) sharp ctes to Carb.</p> <p>str bndg at and around 65 m = ~90°CA and most bndg next ~40 m, 109 m = 40° CA, 122 m= 60° CA.</p> <p><u>phyllite/Scht?</u></p> <p>med to dk gr; mod to str fol, uniform/homo; w blebs/vesicules diss throughout- dol (+ minor cc) up to 1 cm, c.g., rnd, wrapped by gr stuff. unit f.g.</p> <p>Rock ls soft, mica + chl? minor itsl dol throughout.</p> <p>top ~30 cm - gy, more bio?</p> <p>sharp upper ctc.</p> <p>142.15 to 142.60 m - ibd Carb, brcd/fracd throughout, bio branching in at ctes breaking up Carb.</p> <p>~142 m to end - bio-rich (gy-br).</p> | | | | 250 to 600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 143.00 | 226.59 | - | | <p>bottom ctc gradational, Carb broken up/fracd with abnt itsl bio.</p> <p>fn msmt at 139.50 m = 75° TCA, 141.50 m = 50° TCA</p> <p><u>dol-Carb</u></p> <p>w to lt gy; hetero, mass, mod bndg locly (rare, unlike previous Carb unit) abnt fracs and vns throughout. f.g to m.g.</p> <p>similar text/mineralogy overall to previous Carb unit.</p> <p>ol/gr late stage vns abnt throughout, <1 m long.</p> <p>bio bnds cutting Carb for top 30 cm, <3 cm wide.</p> <p>top 6.5 m has str bndg common, more than elsewhere in interval bnds gy-gr mag diss in bnds locly (rare), few % at 146.10 m, mag clusters up to few cm.</p> <p>top down to ~145.70 m - brc zones common in between bnd sections, mtx varies from ol-gr to y with r (bsn? <2%) itsl fl locly (mostly 143.50 to 144.50 m), up to 5%, some converting to REflc? (og).</p> <p>145.70 to 146.15 m - bnds and clusters dk gr, ambl?</p> <p>og-pk gdmass common through this section-bsn? other mins?</p> <p>146.15 to 147.25 m - gdmass dominantly, dk gr to y-br, not w/lt gy ap in bnds and patches up to a few cm.</p> <p>149.90 to 150.30 m - itsl fl up to 10%; rare clusters up to 1 cm, fl zones scattered throughout remainder of unit, all smaller/less fl than this (patches <10 cm, few %).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 226.59 | 234.38 | - | | <p>154.90 to 155.55 m and 156.85 to 156.93 m - ibd Glim (?), gy-br, f.g. py and dol diss locky top one has gradational ctcs - Carb broken up with bio intruding up to 10 cm into Carb dol and brc clsts. more frac/bio vning? between these Glim frags (156 to 156.50 m) bio + cc? up to 30%, Carb broken up, 'clsts' <5 cm lower Glim has sharp ctcs.</p> <p>158.75 to 165 m - brc (? or very c.g.?), intermittent (sections up to 1.5 m long) w dol clsts/grains clustered and diss, sub-ang, blocky up to 1 cm. mtx/gdmass commonly r (esp. 158.75 to 159.30 m and 161.10 to 162.15 m), bsn/REflc? - rich, f.g. up to 30% locky? otherwise mtx/gdmass gr to similar w-y as dol grains.</p> <p>between 'brc' sections is ol-gr Carb, ap-rich locky, similar to rock at 146.15 m.</p> <p>~165 to 170.25 m - Carb f.g., no late stage vns, not as fracd, mottled text, patches of diff compositions scattered throughout- all faint colours and hazy borders. fl-enriched patches locky - pale (opaque) y-gr-p, no ap, cc-rich locky (pk UV).</p> <p>~170.25 m to end - rock hetero, abnt frac, locky brc zones (<<1m).</p> <p>192.65 to 195 m - gdmass dominantly ol-gr with og and r streaks/patches locky, all f.g., hazy/brushed look. reduced fracs through here.</p> <p>below this, down to ~200.65 m - mottled text with bsn/REflc? And fl scattered locky mostly pale y gdmass with gr/ol patches. also locky bnd, locky brcd.</p> <p>200.65 m to end - w-lt gy dol + cc zones dominate, uniform suc text, gy fracs x-cutting all directions throughout.</p> <p>mag clusters at 221.80 m (1-2%) and 216.10 m (25%).</p> <p>last 50 cm of interval is dk gr-ol overprinting w-lt gy rock approaching etc.</p> <p><u>phyllite/Scht?</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 234.38 | 348.96 | - | | <p>dk gr; mod fol, dol +/- cc grains/vesicles diss throughout. f.g.</p> <p>unit similar to prev. phyllite.</p> <p>gdmass mica-chl-ambl?</p> <p>dol grains mostly <2 cm, at 232.50 m a couple up to 4 cm, may be elongated.</p> <p>fn msmt at 226.70 m = 60° TCA 233 m =55° TCA</p> <p><u>dol-Carb</u></p> <p>lt gr-gy; fairly homo, locky mod bnd otherwise mass, faint mottled text; f.g.</p> <p>ap <5% locky, mostly grains/clusters, up to 2 cm, scattered throughout unit.</p> <p>all features throughout unit are faint, nothing really stands out.</p> <p>10 cm lighter gy c.g. (brcd?) dol zone at 236 m. these lighter gy dol clsts/grains scattered throughout, <few cm a few fl patches from 237.50 to 239.30 m, <few cm, up to 30% locky.</p> <p>238.50 to 240.60 m - r specks diss (most abnt from 240 to 240.50 m) same grain size as gdmass - not in bnds, core not tinted r (individual grains visible) trace. may be more scattered throughout unit but diff. to locate (sometimes just one grain, do not stand out). mineralization: bsn/REFlc.</p> <p>vugs up to 1 cm at 243.60 m, filled with c.g. cc. also og-blk min at edge, suh, hard.</p> <p>@243.30 m - wk to mod bndg, edges of bnds not well defined, aph vs. f.g. speckled/mineralized bnds (blk min diss, <5% locky). 55° CA</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|------------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>244.30 to 245.19 m, 247.75 to 251 m - clotted/blotchy text, lt gy dol grains/clusters abound also dk gy frags locly, brc of sorts?</p> <p>251.75 to 255.75 m - rock intermittently bnd (wk) defined by dk laminae locly bndg is str with pale y vs gr bnds (ap?). 45-50° CA</p> <p>r-og min along bnd at 255.63 m, <4 mm wide.</p> <p>253.30 to 257.20 m - dk p-blk fl patches common, zones <10 cm long, fl itsl/wedged in gaps of gdmass, up to 30% locly.</p> <p>253.50 to 272.50 m - zones of y gdmass common can have blk and clear specks diss (pych?, ap <15%).</p> <p>261.50 to 263 m - prtc text gdmass with abnt c.g. min (or rock bits? - actually brc?) including dol, ap, others. This section broken up into lenghts <30 cm by bio-filled fragg, minor to mod damage to Carb (locly frags up to 1 cm broken off and wrapped by bio). more bio-filled frags locly down to 287.50 m, overall minor compared to here. euh py also commonly situated in these, locly also po? (pk coppery colour, anh) and mag!</p> <p>@262.55 m and 264.90 to 265.25 m - dk gy pockets up to 5 cm in Carb, these have country rock frags with itsl Carb and py. sharp ctes/borders around pockets.</p> <p>dk gy zone/band runs sub-parallel TCA from 265.25 to 265.75, top <1 cm grows to 1/2 core at bottom. It has y Carb 'grains', typically elongated (same rock as surrounding Carb) with f.g. bio itsl/as mtx up to 20%.</p> <p>@286.48 m, 1 cm pk transparent qtz pod.</p> <p>mag-rich bnds also appear locly away from bio frags, <2 cm wide, mag suh, up to 15%.</p> | | | 254.50 to 257.25 | 700 to 900 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>271 to 283.50 m - text more hetero/variable, increased f.g. diss bio patches gdmass more variable colour (increased dol +cc?, w patches) returns to more uniform/homo lt gr-gy rock below.</p> <p>289 m to end - locky c.g. and text blotchy/mottled. appears brcd in places with sub-ang Carb clsts, floating individually or tightly packed (fracd section?) almost appears overprinted - mtx identical to surrounding Carb, clsts seem out of place. Other than these clsts, bright w dol specs diss locky (more common, <4 mm).</p> <p>303 to 323.50 m - patches of diss/clustered m.g. to c.g. r min - bsn/ REflc?; grains up to 2 mm, resinous, up to 5% locky over few cm stretches. most abnt from 308 to 316 m, overall trace. Does not tint sections of Carb r (like f.g. stuff) individual grains visible.</p> <p>fl patches from ~327 m to end. dk p, itsl clusters, locky wkly bnd, +/- continuous for up to 30 cm locally, up to 30% (usually <20%).</p> <p>@321.60 m, <5 mm band x-cut core, sharp ctcs, r - bsn/REflc? up to 60%</p> <p>331 to 338.50 m - intermittent sections of f.g. Carb, patchy but faint/hazy borders. Patches of y Carb vs gr-gy Carb. no phen/mineralization visible. This interrupted by w-lt gy dol/Carb zones. typically have dk gy fracx x-cut throughout. also demineralized (dol +/- cc?). these w dol zones up to 50 cm long and continue down to 342.50 m.</p> <p>last few m blotchy text again.</p> <p>interval 350-600 CPS, 254.50 to 257.25 m = 700-900 CPS.</p> <p style="text-align: center;">EOH</p> | | | | |

Handwritten signature and number
OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|--|
| Property: Eldor Property | Easting (m): 538113.56 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 15, 2010 | Downhole Survey: Yes |
| Expl. Area: SE Area | Northing (m): 6311004.45 | Rig Type: Discovery I | Date Completed: Aug 17, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 1007658 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.32 m | Note: Metric to imperial rod change @ 189 m |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 344.40 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 1.50 | 47.51 | | | <p><u>ap dol-Carb</u></p> <p>lt gy-gr; mass, mottled text; f.g.</p> <p>ap content throughout unit ~10-20%, locly <5%, diss in gdmass with dol.</p> <p>top few m fairly competent. 20 cm section at top with lt gy aph dol patches with w c.g. dol-Carb surrounding/itsl to it. a few bio-cc clusters in top few m, <few cm.</p> <p>ibd Glim 4.65 to 9 m. solid Glim from 5.6 to 8.05 m with smaller frags (10-40 cm long) at fringes (in Carb) - these are more broken up/fracd with increased itsl cc. Glim is dk gy to br, bio > cc (but cc itsl and in vns/fracs throughout <40%); looks like brc locly gy country rock clsts surrnd by bio altn rim.</p> <p>9 to 11 m - Carb is more hetero at first - many fracs (bio-cc filled) and cc pods and other frags scattered, then c.g. and blotchy/finger-like text with f.g. bnds cutting across locly (late stage Carb?).</p> <p>12.30 m to 12.72 m - ibd cc-Carb, pk and dk gy mass, mag locly <5% (f.g. diss in dk patches or rare euh phen).</p> <p>11.50 to 16 m - pale ol (gy, gr-br) bnds/patches x-cut core typically few cm wide f.g., dol-rich (no ap) late stage Carb vns?</p> <p>bio patches locly from ~12.75 to 20 m - either small clusters (<30% locly) or itsl and in small fracs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 47.51 | 63.94 | - | | <p>~18.50 to 35 m - Carb is pale ol (more y-gr) with w-y dol patches loclly and gy-b patches (ambi?) throughout (no ap within these), mottled/blotchy text (trace pych diss loclly in gdmass and gy clusters one xtl up to 3 mm at 25.10 m).</p> <p>@33.15 m - 7 cm wide bio-cc band, pretty sharp ctc, bio cc.</p> <p>~35 to 43.50 m - rock is more homo med gy-b (less patchy/blotchy) wkly brcd/fracd down to ~37.50 m with py + by infilling and itsl, and cc pods loclly. Also a couple bio bnds <few cm.</p> <p>38.50 to 40 m - fl bnds/patches, dk p, c.g. mass - vns/vug-filling <few cm loclly - cc typically associated.</p> <p>43.50 to end - return to more blotchy text, y-gy patches.</p> <p>last 30 cm of interval brc like dk gy ang dol clsts/frags within lt gy Carb; @ bottom, couple br meta-Volc (? , country rock) clsts/frags <few cm.</p> <p>230-450 CPS throughout @ ~16.50 m = 500-600 CPS.</p> <p><u>ap dol-Carb</u></p> <p>lt gy-gr; mass, fairly homo, faint mottled text; f.g.</p> <p>ap diss in gdmass with dol, 10-20% throughout.</p> <p>blk-br specs diss throughout, <few mm, 1-5%. equant, suh-euh. pych?</p> <p>cc-bio bnds/patches scattered loclly down to ~51m, <8cm, dk br. In some spots, cc actually >bio.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 63.94 | 66.60 | - | | <p>54.80 to 55.25m - country rock frags in Carb, <10cm, these are ang, br-gy. small br country rock frags/clsts floating in Carb from 61 m to end, these are <2 cm, not common (usually solitary). 62.50 m to end, also larger broken up Glim/bio frags - few cm to 15 cm, frags filled with cc. mtX/Carb section in between frags stays similar to homo stuff higher up.</p> <p>400-700 CPS throughout.</p> <p><u>altered country rock(?)</u></p> <p>dk gy; mass, homo, equigranular; f.g. to m.g.</p> <p>top ctc had 10 cm brc zone - clst supported, clsts consist of dol-Carb and country rock, bio and cc mtX; this has sharp ctc to rest of unit.</p> <p>rock has str effervescence throughout cc in small pods and some itsl, <<50%.</p> <p>down to ~64.65 m - fl xtls diss loclly, <3%, <few mm.</p> <p>@64.68 m - br country rock clast, ~5 cm, bordered by cc-bio.</p> <p>@65.48 m - ibd cc-dol-Carb, 10-15 cm long w to lt gy, bio clustered at edges and within <50%, cc <dol.</p> <p>ibd Glim/bio frags @65.73 m, <20 cm long, dk and f.g., cc <30%.</p> <p>sharp lower ctc. 300-400 CPS throughout.</p> | | | | |
| 66.60 | 89.72 | - | | <p><u>dol-Carb</u></p> <p>med gy, b-y loclly; mass mottled text; f.g.</p> <p>ap 5-10% for most of interval, not diss throughout - restricted to bnds and clusters. up to 20% top 1-2 m and bottom 3-5 m, diss in gdmass with dol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 89.72 | 101.43 | - | | <p>ibd Glim frags throughout unit, 5-100 cm long. these are br and heavily frac/broken up, dol-Carb filling fracs, no itsl cc.</p> <p>76 to 76.50 m - rock is mod bnd. c.g. w dol rich bnds vs. aph ol bnds.</p> <p>82.70 to 86.30 m - rick has less mottled gdmass ltr gy-y and blk specs diss throughout <10% (pych? not very high CPS) suh-euh, equant.</p> <p>@86.30 m - ~20 cm f.g. pale ol-r band - trace diss bsn/REflc?</p> <p>86.50 m to end - rock is pale y with med gy-b bnds/clusters loclly, no diss min (pych or whatever...) mottled text.</p> <p>350- 600 CPS throughout.</p> <p><u>ap dol-Carb</u></p> <p>lt gy; mass - wkly bnd, faint mottled text, unit is fairly homo, f.g to m.g.</p> <p>ap diss in gdmass with dol, 5-20%.</p> <p>gradational upper and lower etc, unit broken out because of high CPS. f.g. diss pych? - dk gy patches/bnds throughout, no obvious phen/pych clusters.</p> <p>og-br min diss loclly, <2 mm, resinous, trace. small cc pods loclly, cr coloured; bio scattered throughout - small f.g. clusters/bnds loclly <1%. minization - mnz?</p> <p>@95 m (<10 cm) and 98.50 m (<50 cm) - strly bnd fl-rich sections; bnds thin, fl 10-30%, also tan-pale y dol overprinting (this extends ~20 cm above second zone) trace fl patches elsewhere in unit.</p> <p>450-1200 CPS throughout (lowest near etc), @91.50 m and 95.10 m up to 1550 CPS.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 101.43 | 123.82 | - | | <p><u>ap dol-Carb</u></p> <p>lt gy; mass to wkly bnd, faint mottled text, unit fairly homo; f.g to m.g.</p> <p>ap diss throughout in gdmass with dol, 10-20%.</p> <p>tan to og-br min diss throughout, resinous, ~1%, up to a few % locly. mnz?</p> <p>small fl clusters locly <1 cm dk p may have minor cc associated - vug-filling? bsn/REflc?</p> <p>@105 m - 10 cm w bnds with r specks - f.g. trace. another similar bnd at 107.25 m, 2 cm.</p> <p>py also diss throughout, <1%.</p> <p>small pk pods scattered throughout unit, mostly <<1 cm, pk carbonate (Mn-rich?). 109.50 to 110.50 m - several of these pk carbonate pods, one up to a few cm.</p> <p>109 to end - fl clusters increase in size and abundance - 1-3 per m, <15 cm. Typically have w dol itsl surrounding.</p> <p>@112.29 m - 12 cm pale r band, f.g. trace diss bsn/REflc?</p> <p>bottom 50 cm of unit is broken/crushed, lower ctc approximated.</p> <p>top to 116.22 m - 250 to 450 CPS.</p> | | | | |
| 123.82 | 126.53 | - | | <p><u>fl-dol rock</u></p> <p>w-gy and p; mass vs. mod-strly bnd sections.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 126.53 | 139.93 | - | | <p>top to 124.25 and 125.41 m to end - are dominantly the banded fl-rich sections. fl ranges few % - 100% in bnds, avg ~30-60% for these sections.</p> <p>mostly fl is f.g., but for ~10 cm @126 m - c.g. dk p transparent fl with squiggly w dol bnds tracing. Also common in banded sections is opaque pale y dol, thin bnds, not seen in lower half of lower section.</p> <p>125.62 to 125.88 m - py clustered up to 30% locally, not rested to bnds.</p> <p>mass sections in unit are >99% dol, mass translucent-transparent - looks similar to qtz vn... minor/trace ap locally trace cc, typically in frags (rare) and vugs.</p> <p>gradational lower ctc drawn at last fl; there's a 5 cm dk gy dol-Carb bnd (of next unit below) ibd at bottom, py <15% here.</p> <p>unit = 220 to 300 CPS.</p> <p><u>dol-Carb</u></p> <p>dk gy; mass, equigranular; overall unit is hetero, but dk gy sections themselves are homo. lt gy bnds and patches scattered throughout m.g.</p> <p>ap diss 5-15% throughout, itsl to dk gy dol clusters, some sections up to 30%.</p> <p>lt gy zones are <30 cm mostly found in top half of unit, typically ap 1-5%, some mod fracd- bio-py (+/- cc) filled. All with sharp ctc to dk gy rock. w dol patches scattered throughout also mostly top half, <few cm c.g., 100% dol.</p> <p>132.32 to 133.46 m - ibd mag-rich unit, dk gy-bk, mass, c.g - Phoscorite? (don't see much phl or ol?). mag 60-90%; ap 5-15%; cc forms bnds/vns <10 cm wide locally; py <5% locally.</p> <p>133.63 to 134.58 m - w-lt gy mass section, sharp ctc increased ap (bnds <40%) and trace r specks diss locally - bsn/REflc?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 139.93 | 178.61 | - | | <p>136.50 to 137.50m - blotchy-pseudo brc text, rnded w dol 'clsts' in dk gy py-bio rich mtx/fracs. trace fl clusters loclly in w dol.</p> <p>sharp lower ctc - frac. (from top to 135.40m= 260 to 350 CPS and from 135.40 m to ~139.20 m = 500 to 1400 CPS).</p> <p><u>ap dol-Carb</u></p> <p>lt gy, gr with lt gy-w patches/sections loclly; hetero, mass wkly bnded, m.g.</p> <p>ap 10-30%, diss in gdmass with dol.</p> <p>140.60 to 141 m - w dol zone, mass, c.g. decreases ap. another ~50 cm w zone at 148.33 m all other w dol patches 5-15 cm.</p> <p>dk gy Carb bnd at 143.60 cm, ~10 cm long, gradational ctcs - similar to prev unit. Other smaller patches of this loclly, <<10 cm.</p> <p>144-144.40 m and ~@146.50 m - w-pk cc pods common, typically <few cm, several % in these areas, may have minor/trace fl associated. rare individual pods scattered loclly rest of interval.</p> <p>py clusters loclly (rare), up to 5%.</p> <p>146.50 to 146.96 m - minized zone, f.g. diss blk (pych?) and og (mnz?) specs, each <few %.</p> <p>@147 m - 20 cm zone of dk gr country rock?, broken up/brcd, bio-rich fracs/gdmass gradational upper, sharp lower ctcs.</p> <p>147.65 to 151 m - fl clusters/bnds <12 cm long, up to 90% loclly but mostly <40% also, rock more hetero here, patches of dk gy diss mins common (see mag below, not all is mag, rest dol?), gdmass typically gy-gr with w-y blotches/bnds loclly. wkly bnd in places. mag phen diss <50% loclly through this section, zones typically 5-20 cm long: significant @148.20 and 149 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 178.61 | 215.09 | - | | <p>152.50 to 157 m - rock is more homo and gdmass dominates - ltr gr-gy and below 154 m w lt gy. dk gy specs diss locly. minor small vugs and fracs throughout. above 154m, trace tan min diss, equant, <1mm, bar?</p> <p>@153.50 m - <10 cm patch with dk gy clusters/ grains (<2 mm) diss- dol?, py, pych (blk specs trace)??.</p> <p>below 154 m - (ltr colored gdmass), bk grains diss locly hard, equant - pych?</p> <p>157 to 157.35 m - text appears c.g. equigranular but is f.g. with like grains forming clusters <few mm, sharp upper ctc; dol rich (no ap), py diss throughout <2% this text repeats over next over next ~5 m but bnds <20 cm, not as stand-outish/uniform.</p> <p>1 cm wide mag-rich bnd at 157.50 m.</p> <p>159.40 to 159.85 m - mag diss/clustered up to 60%, py <few %, gdmass pale y.</p> <p>~164 to 172.50 m - rock fairly uniform/homo pale gr-gy gdmass dominates, ap 5-15%, mass, dk gy specs scattered throughout.</p> <p>172.50 m to end - text more hetero, bnds and clusters of dk gy grains common (dol+?) py typically diss here, also bio patches/bnds may have blk-og equant min diss <1% (pych?).</p> <p>bottom 1-2 m gdmass ltr (lt gy-y), fl bnds <3 cm wide common. last 33 cm is minized zone, dk and gr, m.g. equigranular, bio diss throughout <10%, cc diss locly.</p> <p>Interval = 800 to 1000 CPS, locly = 1500 to 2300 CPS or 600 to 800 CPS.</p> <p><u>dol-Carb</u></p> <p>lt gy-gr with dk gr sections; mass, suc text, hetero; f.g. to m.g.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>top 2 m - is pale gr vs pale y patches, fl scattered throughout, small vugs and cc pods, tan-og min diss locly.</p> <p>@180 m - 15 cm zone with bio phen <15%.</p> <p>180 to 181 m - fl bnds/patches common and up to 20 cm (<90% fl), bnd at 181 m also has tan min diss at centre <1% (equant, <2 mm - bar?).</p> <p>181 to 181.45 m - >95% dol minor fl scattered vugs <few cm throughout; no ap (sharp ctc). this followed by ~30 cm zone that is gr, suc text, no fl, no ap except in isolated clusters, no vugs.</p> <p>below 181.80 m - rock is lt gr-gy, hetero.</p> <p>tan-pale pk min diss locly, equant <2% patches at 182.20 m (10 cm long) and ~185 m (on and off for 35 cm) have dk gy clusters and py also evenly diss.</p> <p>pale y f.g. gdmass/late stage Carb vng (?) - (intrusion causing brc in more severe cases). locly down to ~188 m - sharp ctc to gr Carb typically have fl (as lining for Carb clsts floating in dol) and cc (as w-pk pods) associated.</p> <p>significant zones at ~183.65 m (20 cm no Carb clasts/frags, abn cc pods) and 185.75 m (40 cm only minor cc, abnt gr Carb clasts/frags) (besides these, fl scattered throughout, usually <5% locly zones have +/- cc, py.</p> <p>pk cc bnd @184.53 m, 1-2 cm wide.</p> <p>@186.75 m - <50 cm zone with r.f.g. min diss, trace (bsn/REflc?) and frags/vugs with pk tint; middle 30 cm have w gdmass (dol-rich).</p> <p>187.50 to 190.60 m - rock is fairly homo/uniform, faint mottled text, tan/pk min (described above) throughout <1% diss ap this section 5-15% diss in gdmass.</p> <p>@190.75 m - 17 cm long w lt gy zone, ap <20% diss (c.g./larger clusters).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 215.09 | 222.13 | - | | <p>190.95 m to 204 m - brc zones dominant. lt gy-gr dol/Carb mtx supporting ap +/- dol clsts with fl linings (some cases up to 10%), clsts ang <2 cm (mtx also occasionally has cc pods <few cm, pale pk).</p> <p>zones at 190.95 (30 cm), 194.72 to 196.05, 198.60 to 199.50 m (clsts spaced wider apart), 200- 203 m, 203.70 to 204 m.</p> <p>191.25 to 192.50 m - Carb is dk gr bio diss loclly, dk fl filling vugs <1 cm (<10%), cc pods loclly up to few cm, pk.</p> <p>broken core from 192.25 to 192.60 m.</p> <p>194 to 194.35 m - w dol patches with mod r clusters/bnds - f.g. diss bsn/REflc? trace, also m.g. xtls scattered (<few mm) more bsn (?) from 196.05 to 196.50 m, at 200.20 m.</p> <p>204.35 m to end - pale y dol/Carb (late stage?) bnds/vns x-cut Carb, typically have fl and cc associated, <10 cm wide. Below 20.7 m, not as common.</p> <p>sharp lower ctc.</p> <p>top to 187.75 m - 400 to 800 CPS, 187.75 to 192.50 m - 800 to 1500 CPS, 192.50 to 205.25 m - 400 to 800 CPS, 205.25 m to end - 600 to 1350 CPS.</p> <p><u>dol vn/dol-Carb</u></p> <p>w pale y; mass, homo, suc. dol <98%. cc pods scattered throughout <1 cm, few % loclly no ap.</p> <p>ibd and dol-Carb, 10-25 cm bnds from 216.25 to 217.25 m - sharp ctc, similar to prev unit.</p> <p>fl diss loclly, <1%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 222.13 | 275.01 | - | | <p>minor frags scattered throughout bottom half, r filling. trace py diss loclly.</p> <p>a few gr Carb bnds in last 1.5 m (<1 cm).</p> <p>300-400 CPS</p> <p><u>ap dol-Carb</u></p> <p>lt gy-gr; mass, mottled; f.g. to m.g.</p> <p>top down to 228.5 m - rock fairly homo; ap 5-15% in gdmass, diss tan min trace, fl filling vugs loclly (<2%), w-pale y bnds x-cut loclly (<15 cm).</p> <p>228.50 to 235.14 m, rock is hetero, abnt overprinting/brc?, pale y bnds/patches throughout. faint r bnds mixed in with gr Carb patches - f.g. diss bsn? REflc? trace. frags infilled with cc-py-bio. fl custers/bnds common from 230 to 239.75 m, <10 cm wide. w dol bnds/vn 231.92 to 232.40 m, mass, <1% cc pods scattered (similar to prev unit).</p> <p>235.14 m to end - Carb is dk/not as b, text more mottled/blotchy, ap diss in c.g. clusters (5-15%). mag rich zones throughout, 20-60% mag, may have py <15%; located at 241.35 m (<10 cm), 242.60 m (10 cm), 243.10 m (40 cm), 257.40 m (15 cm), 258.25 m (30 cm), 266.40-267.55 m (small breaks in between mag-bearing sections), 273.75 to 274.35 m.</p> <p>mag phen sub-euh <7 mm; these zones (esp. lower down) have b-gr ambl 5-40%.</p> <p>243.90 to 244.35 m - rock is brc, mtx is pale y dol (intrusion?), clsts just broken bio gr Carb (may have trace bsn/REflc? overprinting), minor cc pods.</p> <p>more pale y dol patches scattered 242 to 245.30 m, all <few cm.</p> <p>249.70 to 250.48 m, core broken/fracd along and across CA, frags lined with FeOH staining and loclly py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 275.01 | 306.91 | - | | <p>fl bnds/clusters from 254.75 to 255.30 m and 259.55 to 260.10 m - bnds <30 cm, <80% fl, more fl blebs from 269.50 to 270.50 m, diss 5-20%.</p> <p>258.65 to 258.96m - core broken, rnded, withd - fault? continues to be broken down to 259.63 m, not as withd.</p> <p>10 cm lt gy, bnd @272.75 m, r min itsl to dol/ ap? grains, <1% - bsn/REflc? m.g. to c.g. band.</p> <p>Interval = 350-700 CPS; 273.75 to 274.30 = 700 to 1200 CPS.</p> <p><u>fl dol-Carb</u></p> <p>p and lt gy; wkly bnd, fl bndg 'smeared'; f.g.</p> <p>top ctc gradational, picked at constant appearance of fl.</p> <p>first ~4 m has +/- consistent fl, <85% locly and no barren section >15 cm. colour varies from pale to dk p. fl locly wraps around frags of Carb - itsl/late stage? Carb is lt gy, gr-y, may have trace diss mod r min locly- bsn/REflc?, ap throughout 5-10%.</p> <p>278.75 to 288.12 m - fl content reduced, restricted to scattered bnds. Carb is hetero.</p> <p>278.75 to 280.05 m - rock is dk gy and gr, b-gr ambl diss throughout up to 60% locly, first ~20 cm many small fracs; cc-py-bio(?) filling.</p> <p>mag phen suh-euh, clustered throughout this section (esp last ~30 cm), <50% locly, +/- py cubes. small Carb vns x-cut locly top half also w-pale y blebs scattered locly.</p> <p>280.70 to 281.50 m - str fl bndg as (as at top of interval).</p> <p>282.25 to 282.80 m - brc, poorly sorted, clsts w lt gy, suba, dol +/- cc; mtx dk gy top top 5 cm has r mtx (bsn/REflc? <5%) and fl in mtx in centre.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 306.91 | 344.40 | - | | <p>282.80 to 287.70 m, rock dk gy, frac-brc (increases down). first ~m is mass and fl frags/bnds scattered, below this wkly bnd. frags bio-cc(?) filled. 284.03 to 285.70 m - only minor frags, ltr and gr, cc pods, up to 5% locky. couple fl bnds/clusters from 285.90 to 286.20 m. 286.35 to 287.70 m, bio-cc (?) frags surrounded bio f.g. gy Carb (late stage/overprinting?).</p> <p>287.70 to 288.12 m - ibg Glim frag, sharp ctes dk br-blk, f.g. bio mod fol, py diss at bottom, diss w dol throughout <10%.</p> <p>288.12 to 292.50 m - fl banding/overprinting dominates text, Carb typically y with bnds/pods up to few cm locky. 290 to 290.50 m, rock mostly dk gy with patches of bio-cc breaking up Carb (itsl/fracs).</p> <p>292.50 to 295.60 m - no fl and locky core is crushed. Intact core abnt small vugs, wthd rock is w lt gy.</p> <p>abnt fl again below 295.50 m - but decreases down, last few m fl restricted to bnds <10 cm.</p> <p>299 to 303.30 m - bio/Glim ibd with fl Carb, sections all <30 cm.</p> <p>305.75 m to 306.15 m - w vn x-cut Carb along CA. terminates at 15 cm Glim zone.</p> <p>lower ctc where Carb meets Glim and end of last significant fl bnd.</p> <p>interval= 250 to 550 CPS. up to 1100 CPS.</p> <p><u>Glim</u></p> <p>dk br and w; broken up/brc throughout, Carb vns abnt, locky b-gy rock frags amongst bio.</p> <p>fl vn/frags abnt 309.30 to 309.90 m, only minor bio clusters here.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>310.85 to 315.75 m - rock dominated by Carb vn <1.5 m long, Glim sections <1 m long. Carb dominantly dol with cc pods throughout, below this, vns mostly cc <15cm, w-pk; except 331.30 to end, several cc Carb vns up to 1 m.</p> <p>dk gy-b country rock(?) clsts/frags wrapped/lined with bio, found throughout interval usually clustered together in zones <1.5 m. these emphasize brc text with w dol mtx/vng.</p> <p>interval= 150 to 370 CPS, Glim typically <200, Carb >200.</p> <p style="text-align: center;">EOH</p> | | | | |

Handwritten signature and date: 06/22/23

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|------------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 538113.87 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 18, 2010 | Downhole Survey: Yes |
| Expl. Area: SE Area | Northing (m): 6311004.70 | Rig Type: Discovery I | Date Completed: Aug 20 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 1007658 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Partial Pull | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: Metric to imperial rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: bioW | End of Hole: 344.35 m | change @ ~233 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.32 | 48.18 | | | <p><u>ap dol-Carb</u></p> <p>pale ol-y, dk gy clusters throughout. mass, hetero, mottled text vs. uniform suc text sections. m.g.</p> <p>ap content through most of unit ~10%, diss in gdmass, may form clusters <1 cm.</p> <p>dk gy clusters mostly dol-rich (? , + ambl?, + sul?).</p> <p>bio patches also scattered throughout, mostly stringy not clumps, <5%.</p> <p>0.60 to 1.20 m, 3.65 to 4.35 m, and 5.05 to 5.60 m - no core recovered, just br sand with or without pebbles <2 cm.</p> <p>@0.10 m - 10 cm gr and gy wkly bnded zone, heavily fracd, fracs filled with bio, dol (gr = di?).</p> <p>first 50 cm Carb is m.g to c.g., ltr (w) gdmass with dk gy equant min diss loclly (<30%, sul?).</p> <p>below this (down to ~3.5), rock is more y-gr and finer grained with w ap, diss gy-b itsl min - ambl?, ~5%, f.g., below this is dk gy clusters described earlier.</p> <p>vns/bnds x-cut Carb loclly all <5 cm, vary from lt ol-gy to dk gy-ol; boundaries distinct but not razor sharp.</p> <p>lt gy-w dol patches/bnds scattered throughout, zones <few cm up to 50 cm.</p> <p>suc text, mass, no ap. loclly cut by dk gy Carb bnds or diss <20%. py clustered loclly, itsl/frac filling.</p> <p>@18.5 m - ~5 cm mag cluster, grains up to few mm, 80% cluster lined with py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@11.40 m - 5 cm zone enriched with diss pych? grains suh, equant, <2 mm, few %.</p> <p>@15.95 m and from 24.50 to 25.80 m - f.g. y-r rock, patches have hazy/fuzzy boundaries, ap restricred to clusters <1 cm (rare), r zones likely trace diss f.g. bsn/REflc?.</p> <p>dk gy, Carb also forms bnds up to 5 cm wide, increase in abundance downward, sections up to 1 m long near bottom (specifically 41.45 to 41.80 and 42.90 to 44 m (these have lt gy blebs diss - ap! (10%) also py diss few %)) .</p> <p>38.04 to 38.25 m - w-pk cc pods, up to 10 cm long, c.g. mass.</p> <p>@35.70 m - more mag phen diss, grains up to few mm, suh, <30%, housed in dk gy Carb, also abnt py clustered here. zone is 8 cm long with 10 cm f.g. bnded ol late stage vn at top. this vn + mag complex sitting w/cr coloured dol-rich Carb (continues ~30 cm).</p> <p>36.30 to 37.05 m - gdmass dominatly br cloured. (ol-gy), mass. ap f.g. and throughout unit (>50%, all w under UV). minor dk gy clusters, diss py and ltr coloured dol clusters (loclly r-pk - trace bsn/REflc?).</p> <p>1-3 mm frac x-cut at centre, mostly qtz filled but r-og (another f.g. min diss and tinting the qtz?).</p> <p>37 m to end - rock more hetero, gdmass mostly dkr (ol-gy to dk y with pale y sections loclly).</p> <p>dk gy clusters dol (soft, gdmass) - ambl? (rarely) - sul? (smaller diss grains, usually met) rich.</p> <p>44 to 44.50 m - rock fairly homo, gr-y, ap 5-10%, minor dk gy clusters diss (sul + dol?) text increasingly blotchy towards end.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 48.18 | 86.98 | - | | <p>down to ~46.60 m - gdmass slightly greyer with w specs diss (minor) ap here <1%, restricted to small clusters/bnds.</p> <p>47.25 m to end - text more blotchy to brcd? (well healed), 'clsts' up to few cm (lt gy-y dol-Carb) with ol-dk gy mtx. also w-cr dol patches scattered.</p> <p>gradational lower etc, could have been placed several m in either direction.</p> <p>interval = 250-500 CPS</p> <p><u>dol-Carb</u> dk gy-ol gy (br); mass to wkly bnd, dk gy sections fairly uniform with suc text, sections with ltr gdmass typically mottled. f.g. to m.g.</p> <p>down to 53.70 m - rock is hetero, gdmass patchy - lt-dk gy-y, blotchy text.</p> <p>49.15 to 50.20 m - more homo section, lt gy gdmass with dk gy patches and diss grains, few cc pods at centre. py diss throughout ~1% ap here diss, ~10%.</p> <p>@51.75 m - pale y f.g. demineralized bnds, 20 cm (dol rich, no ap) long, wkly bnd, suc text.</p> <p>53.70 to 55.40 m - rock is w/cr - y gdmass, mottled text, ap ~10% diss; also blk - dk gy specs diss, esp. middle - lower half - grey dol?, bio patches (loclly chloritized?, gr). top half not nearly as much, loclly wkly bnded.</p> <p>55.40 to 56.05 m, 58.45 to 59.54 m, 85 to 85.80 m - f.g. uniform/homo gy, (other smaller sections scattered throughout, <50 cm long), these have minor/rare cr coloured specs/bnds loclly (dol + ap?).</p> <p>@55.75 m - resinous r patches with py clustered inside.</p> <p>56.50 to 58.45 m - gdmass blotchy mix of pale y and dk gy, blk min diss loclly ~1%. similar zones at 60 m and 81.50 to 83 m this one more even distribution of gy vs. y Carb.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 86.98 | 105.94 | - | | <p>72.10 to 72.65 m (half core), 84.20 to 84.85 m - lt gy - pale y gdmass with minor dk gy dol clusters scattered but blk min diss common (5-10%) as well as py (clusters up to few cm/50% locly). And tan min diss locly (<5%, bar?).</p> <p>64.28 to 64.50 m - w-cr mass dol bnd, fracd/vugs along one side, mottled text.</p> <p>pale y dol patches scattered elsewhere throughout interval up to few cm locly, zones <50 cm long, mostly top half also cc pods locly.</p> <p>70.75 to 74.90 m - ibd Glim/brcd country rock, not continuous (broken up by zones of Carb). top m and bottom 50 cm is Glim - frags all bio with w dol vns x-cut throughout middle clsts/frags are all country rock bio rims (<few mm), lt gy itsl Carb.</p> <p>83.25 to 84.25 m - minor country rock brc zones, all <30 cm long, clasts ang, no bio rims.</p> <p>bio pockets at 83.25 m and 83.70 m, bio fractured/broken up.</p> <p>fairly sharp lower ctc, gdmass changes to dominatly lt gy-pale y.</p> <p>interval 230-430 CPS.</p> <p><u>ap dol-Carb</u> lt gy, dk gy clusters scattered/diss throughout. mass, mottled text; f.g. to m.g.</p> <p>ap clusters diss throughout 5-20%. py diss throughout most of interval, <1%.</p> <p>dk gy clusters dominatly dol, also minor ambl? (<1%, b-gr).</p> <p>w-pk cc pods scattered throughout, < few cm, locly several per m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 105.94 | 112.63 | - | | <p>90.30 to 90.50 m, 91.40 to 92.10 m, 103.80 to 104.35 m - gdmass f.g. med gy, these sections uniform/homo, suc text, minor lt gy - pale y pockets, py typically diss ~1%, ap similar quantity as rest of unit.</p> <p>92.60 to 93.40 m - ibd country rock/Glim frags, first 50 cm only gy-br country rock, at first in contained pockets up to 15 cm long, and becomes brc by 93 m, clsts <2 cm and minor bio rims.</p> <p>bottom 30 cm is broken up Glim/brc, all clsts/frags bio, itsl gy Carb mtx trace py diss.</p> <p>96.90 to 97.75 m - rock is f.g. and fairly unifrom/homo, gy-ol and r. no ap, r colour provided by diss bsn/REflc(?), up to few %.</p> <p>another similar bnd at 105.70m, bsn likely trace, finer grained.</p> <p>102.50 to 105.50 m - many frags, bio - py filled.</p> <p>104.50 m and 105.65 m - mod to strongly bnded 40-50° CA. sharp lower ctc.</p> <p>interval = 250-600 CPS</p> <p><u>qtz - sph vn(?) with Glim</u> dk gy, b-br; Glim is mod fol, non Glim mass, homo within each section.</p> <p>top to 107.20 m - mtx/ gdmass is f.g. hard - qtz + sph?. py diss (few % locky) lt gy dol/Carb specs diss throughout <few mm, also dol-Carb clsts/frags and dk gy country rock frags scattered throughout from 106 to 107.20 m f.g. bio + cc diss locky, patches up to 5 cm long.</p> <p>sharp upper ctc, dol-Carb frags ripped off of unit above and floating in dk gy sul-rich(?) unit. sul vn?.</p> <p>ibd dol-Carb from 107.20 to 107.65 m (sharp upper, gradational lower ctc) and 108.80 to 109.18 m (gradational ctcs (bio/Glim)), lt gy, mottled text with diss blk specs - some bio, some pych locky? (1%) (prob, small kick on scint). same rock as prev unit.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 112.63 | 115.89 | - | | <p>107.65 to 108.80 m - bio - cc framework with clsts/grains of qtz - sph(?) throughout up to 2 cm. mass/not fol. bio and cc ~15 and 30% respectively; if gy dol-Carb frags <10 cm locally.</p> <p>bottom 40 cm approaching ibd Carb is bio-rich, clsts/frags of various litho more common.</p> <p>109.22 to 110 m - return to f.g. dk gy qtz - sph vn(?), no dol/Carb grains/vesicles, cc diss instead (trace), bio restricted to patches/bnds (diss, <20%) with py clusters.</p> <p>110 to 110.75 m - qtz sph vn has bio - cc framework - similar to text/minerology seen above (107.65) gradational ctc to Glim.</p> <p>110.75 m to end - Glim, dk br-blk, mod fol, bio + cc (about even %), cc itsl to bio and forms small elongated pods.</p> <p>diss euh py phen bottom 20 cm, xtls up to 1 cm, 5%.</p> <p>last 5 cm, cc overprinting most bio, w.</p> <p>ibd Carb = 350 to 550 CPS. rest of interval <300 CPS.</p> <p>fn msmt at 111m = 55° CA, 112m = 45° CA.</p> <p><u>dol-Carb</u> It gy-y, blk and p; hetero, strongly fracd (fracs bio - filled) throughout, fl and Glim bnds. f.g to m.g.</p> <p>Carb has two main characters: 1 - gy with mod fracs that fully cut core ap restricted to bnds/clusters (not as common). top to 112.97 m and 114.40 m to end, 2 - pale y with abnt fracs - these are v. short and wavy, ap 5-20% diss clusters, m.g; eqgr. 112.97 to 114.40m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 115.89 | 117.70 | - | | <p>fl bnds more or less at ctc between two types (113.15 to 113.50 m and 114.25 to 114.45 m). these clusters/ bnds each <5 cm, med-dk p, up to 90% fl, minor frac or just Carb itsl to grains?</p> <p>fl bnds more or less at ctc between two types (113.15 to 113.50 m aand 114.25 to 114.45 m). these clusters/bnds each <5 cm, med-dk purple, up to 90% fl, minor frac or just Carb itsl to grains?</p> <p>also fl patches at 114.80 m, 10 cm zone with vugs in y dol - vug filling with cc?</p> <p>ibd Glim from 114.95 to 115.58 m, three main bnds/clusters <10 cm with extensive vnlets cutting adjacent Carb. gradational lower ctc - switch to cc. internal = 350 to 420 CPS.</p> <p><u>cc-Carb</u> lt gy-pk with dk gy-gr patches/clusters. mass, eqgr, m.g to c.g.</p> <p>top half w - lt gy, dominated by cc gdmass, bio flakes loclly, <1%.</p> <p>ap throughout interval 5-15%.</p> <p>bottom half of Carb increasingly pk, dk gy-gr patches common - clusters of mag (<5%), di (?), <10%), and bio?</p> <p>116.30 to 116.80 m - ibd Glim, bnds 5-20 cm long, dominant litho. wkly to mod fol, itsl cc (<30%), diss py.</p> <p>interval = 330 to 480 CPS.</p> <p>lower ctc, switch back to dol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 117.70 | 123.63 | - | | <p><u>ap dol-Carb</u></p> <p>lt gy-cr coloured; mass, fairly homo, mottled text; m.g. to c.g.</p> <p>ap diss 5-15% for most of interval, some ap patches/sections devoid. ap-rich zones are more pale gr-gy.</p> <p>minor fracs throughout, infilled with bio - pych or fl?</p> <p>blk specs diss throughout mostly bio (<5% locly) with minor pych amongst it (trace).</p> <p>sul clusters locly, py and gy sul (sph?).</p> <p>120.70 to 121.60 m - fl patches common from, dk p-blk, all <2cm.</p> <p>small cc pods scatterd through unit, all <2 cm, pale pk coloured.</p> <p>lower ctc chosen at appearance of mag.</p> <p>interval = 300-450 CPS.</p> | | | | |
| 123.63 | 131.78 | - | | <p><u>phoscorite?</u></p> <p>dk gy/blk met with gr and w. mass, c.g., poikylitic.</p> <p>mag phen suh - euh, xtls up to 1 cm, commonly 30-60%, locly patches up to 90% some xtls have minor fracs with phl running through. otherwise phl intsl to mag in gdmass with cc, dol, ap. also phl-rich bnds <3 cm away from mag-rich zones - mostly dol - ap gdmass (Carb?).</p> <p>mag diss at top ctc in Carb, grains <5 mm, <10% Carb continues down to ~123.95 m (first phoscorite intersection).</p> <p>ap 5-30% throughout, itsl to mag. cc ~10%, itsl (not always visible). dol typically in pods/clusters/bnds, <2 cm, scattered throughout.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 131.78 | 161.85 | - | | <p>py diss locly, <1%.</p> <p>di - rich gdmass locly, slight gr tint (prob mostly ap...), but di up to 50% from 127.10 to 128 m.</p> <p>ibd dol-Carb, very gradational, ctcs with phoscorite (?), mag phen extend into dol-rich gdmass. Carb similar to prev unit, lt gy-cr coloured, ap diss throughout ~5-15%, bio flakes diss; bnds from top to 123.95 m at 1214.80 m (15 cm bnd), 125.46 to 125.72 m, 128.24 to 128.70 m, + a few smaller patches elsewhere (mostly upperhalf, all <15 cm long).</p> <p>130 to 130.90 m - ibd Glim, continuous/solid (no interruptions). upper ctc sharp; f.g packed phl/bio, lower ctc more gradational, with py phen <15% diss bottom 10 cm (up to 1 cm, perfect euh cubes, sharp!) Glim is mod to strongly fol, itsl dol laminae + small elongated pods throughout <<30%, gr min diss throughout <10%, ambl?/chl?</p> <p>fn = 50° TCA.</p> <p>lower ctc at end of abnt coarse mag. interval = 500 to 1150 CPS.</p> <p><u>ap dol-Carb</u> pale y-gy; hetero mass; mostly f.g to m.g., some c.g. zones.</p> <p>ap diss throughout unit, mostly 5-15% but up to 20% locly. cc pods common, diss throughout unit, 5-10%.</p> <p>top down to ~134.50m - m.g to c.g. eqgr, gy cluster/gdmass dominant (not y), mag diss in patches down to ~133.50 m (abundance decreases backwards).</p> <p>~4 cm wide mag - rich zone at ~135 m, phen up to 7 mm and ~30%.</p> <p>demineralized pale y zones locly (not common), mass, suc text, no ap.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mod fracd sections locky, most abnt from 138 to 148 m, commonly fracd filled with bio-cc-py?</p> <p>135.50 to 136.80 m - bio clusters filling large fracd/vugs? locky < 2 cm. at 135.75 m, also b-gr ambl in frac/vug.</p> <p>dkr gy gdmass in bnds up to 30 cm long, f.g. itsl bio (<1%) and m.g. dol, increase ap, and locky diss blk-br equant min (pych? <4%) seen down to 138.40 m.</p> <p>fl patches scattered throughout interval, significant at 140.40 m, 148.40 m, 149.40 m. smaller patches elsewhere <40% locky, patches <5 cm, may have py, cc associated up to 10%.</p> <p>140.30 m to ~155 m - sections with blotchy text, locky appears brcd (well healed/overprinted, "clsts" typically dol).</p> <p>~141 to 148 m - cc content throughout increases, <20%?, in fracd (w/bio) and pods in gdmass.</p> <p>145.70 to 146.50 m - rock more homo/uniform, faint mottled text, lt gy (pale gr). @146.35 m - a few r, resinous grains (<3 mm) - bsn/REflc? sitting in w dol zone (10 cm).</p> <p>again fairly homo from 149.05 to 153.85 m with mottled text. wkly bnd here (~55° TCA). pale y gdmass with gy and br clusters forming bnds, f.g. to m.g. r grains diss locky, trace, bsn/REflc? Increased fl patches through this section; with cc pods at 149.30 m and py clusters (<20%) at 152 m, remaining fl <5% locky, small.</p> <p>156.15 m to end - gdmass dominatly gy fairly homo, finer grained, cc in gdmass instead of isolated pods, trace br specs diss locky (pych?). pale y pods/bnds scattered locky. fewer fracd in bottom, few m.</p> <p>py clustered near bottom, <10%, with tan-r min diss, grains, <2 mm, equant. lower ctc gradational, slight increase in fl.</p> <p>interval = 500-1000 CPS locky up to 1500 CPS.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 61.85 | 176.94 | - | | <p><u>fl ap dol-Carb</u> It gy with p patches throughout; mass to wkly bnd, hetero.</p> <p>ap content throughout fairly consistently 10-15% (+/- 5%), diss in gdmass locky bnds/patches devoid of ap.</p> <p>fl dk p, dominately clustered in bnds/patches up to 40 cm long (mostly 5-15 cm), in bnded zones, fl thinnly lam; <60% locky. most fl concentrated in bottom half (never more than 30 cm between patches, str overprinting increases heterogeneity) - top half patches more segragated although <<1 m between fl.</p> <p>Carb/gdmass similar to bottom of prev unit. dominaty mottled text, but finer grained more homo/uniform zones exist with suc text.</p> <p>cc throughout in gdmass and small pods, ~5%.</p> <p>pale y gdmass dominant from top to 162.60 m, 163.80 to 166.65 m, 169.70 to 171.45 m, and ~174 m to end. these may have gy clusters and other diss mins (bio, py...).</p> <p>gy gdmass sections typically have pale y dol pods/bnds scattered throughout. tan min diss locky, < 1%, bar?</p> <p>167.20 to 167.45 m - itsl bio flakes up to 20%, darken up this zone (but mostly mineralogy remains consistent).</p> <p>@169.60 m - 4 cm pale r-gy bnd, f.g., no fl or py as with adjacent rock bsn/Reflic? trace diss giving r colour.</p> <p>mag phen clustered from 170.35 to 170.60 m (<50% locky) slightly fracd/broken up (grains up to 1 cm), py clustered here too (<15% locky). It gy patches surrounding mag (tinted pale y gdmass?).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 176.94 | 213.32 | - | | <p>172.45 to 172.80 m - more mag diss, grains here all <4 mm, up to 30% locly, py also diss here, also up to 30% locly.</p> <p>166.65 to 167.10 m and 173.25 to 173.45 m - brc text, well healed/clsts similar composition to mtx (former case), clsts distinguished due to fl lining (up to 10%). Clsts <3 cm, ang. latter case the mtx is dominatly fl, clsts and text stand out.</p> <p>last m, fl bnds are thin and discontinuous, ctc placed below last fl spec.</p> <p>interval = 400-800 CPS. locly up to 1500 CPS.</p> <p>ap dol-Carb It gy - lt ol colour; unit fairly homo, locly mottled text, fl-rich brc sections throughout. f.g to m.g.</p> <p>ap clusters diss ~10-20% throughout.</p> <p>cc itsl/in gdmass throughout unit, <5%; also forms pods <5cm, w-pale pk, these not as common. zone of cc pods from 179.65 to 179.95 m and 183.30 to 185.50 m (cc up to 20% here), otherwise individual pods scattered.</p> <p>brc(?) zones common throughout unit, esp. from 180.75 to 205.30 m. these are well healed/overprinted?, clsts similar litho to mtx. fl typically rims clsts (up to a few mm) highlighting the text, fl 10-30% in these zones, locly mtx is dominatly fl (where clsts are tighter packed). clsts mostly ang, up to several cm. continues fl brc zones all <50 cm, broken up by homo, mottled text Carb.</p> <p>tan and tan-r min diss locly in Carb grains all <2 mm, <1% locly bar? other min?</p> <p>faint r bnds seen rarely (at 179.50 m and 198.80 m are best (only?) examples bnds <10 cm.), trace aph diss bsn/REflc?</p> <p>It gy to pale y bnds/patches scattered throughout unit. also gdmass switches to dominatly pale y dol stuff occasionally.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 213.32 | 249.02 | - | | <p>207.75 to 209.30 m - fairly homo, mass, m.g. section, mottled text, no fl, with tan-r diss min common - up to 5% locly. also dk br min diss locly, ltr coloured core, pych? (<1% locly) similar patches of this rock elsewhere in unit, all <1 m, most <50 cm. typically these sections have higher CPS - due to pych? interval = 400 to 800 CPS. locally up to 1300 CPS.</p> <p>lower ctc at end of consistent fl and switch in text.</p> <p><u>ap dol-Carb</u> med-dk gy with lt gy-pale y patches/bnds. mass, pseudo-eqgr text; m.g.</p> <p>pale y, patches/bnds mostly located in upper half <30 cm long. dol-rich, no ap, cc pods common as with rest of unit.</p> <p>cc pods and itsl/in gdmass throughout, <5%.</p> <p>ap clusters diss throughout, 10-20% for most of interval, ~5-10% in mag-rich sections.</p> <p>top half of interval dk gy cluster with lt gy-pale y itsl material dominate text. dk clusters likely mostly dol, f.g. sul bio flakes itsl locly in top ~5 m, <5%, mostly above ~220 m. diss dk br pych?, suh-euh, up to 2 mm, up to 5% locly.</p> <p>py clusters scattered throughout, up to 5% locly.</p> <p>wkly bnded @223.40 m and 224.10 m, f.g.</p> <p>mag - rich zones scattered from 225.15 to 246 m - zones mostly 10-50 cm, mag phen up to 1 cm, up to 50% locly (not common, mostly 10-30%). these zones have reduced ap (~10%) and itsl Carb is lt gy to pale gr (f.g. di diss locly?).</p> <p>bottom half of interval mostly ltr gy gdmass dominates, dk gy clusters rare.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 249.02 | 264.40 | - | | <p>lower ctc at start of fl.</p> <p>interval = 700-1500 CPS, locly down to 400 CPS.</p> <p><u>ap fl dol-Carb</u> pale y and p; most of interval wkly bnded; f.g. to m.g.</p> <p>fl throughout interval, dominant from top down to 258.75 m. mostly in thin bnds (+/- continuous up to 1.5 m) but also non-fol sections with fl clusters locly brcd? fl up to 95% locly, ~20-40% through most of interval.</p> <p>dol-Carb sections and bnds within fl-rich sections typically lt gy to y; ap 5-20% diss throughout, usually lower with fl (<10%). cc throughout reduced from prev unit, locly in gdmass, minor pods scattered, overall 1-2%.</p> <p>above 258.75 m - Carb sections all <50 cm, most <15 cm long and small bnds with fl.</p> <p>below 258.75 m - Carb sections up to 1.30 m, mostly over 10 cm but also small bnds in fl-rich zones.</p> <p>these are mass - wkly bnded, mostly pale y rock suc text, may have minor diss grains - b-gy, faint (ambl?, <5%) and py, bio? increased cc pods down here, up to 5%.</p> <p>263 to 263.50 m - tan-br min diss up to 5%, grains <2 mm, equant.</p> <p>lower ctc end of fl.</p> <p>bndg msmt at 250.10 m = 60° TCA, 256 m = 60° TCA, 262.50 m = 50° TCA.</p> <p>interval = 300-650 CPS.</p> | | | | |
| 264.40 | 270.99 | - | | <p><u>ap dol-Carb</u> pale y to med gy. hetero, wkly bnded to mass. f.g to m.g.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 270.99 | 279.70 | - | | <p>first ~m is dominately pale y gdmass with gy clusters diss in patches/bnds increasing down. wkly bnd, bio diss (~1%) and ap ~5%.</p> <p>265.40 to 269.50 m - rock mostly med gy, +/- eqgr. minor pale y itsl and bnds/vns scattered throughout (<2 cm) - mostly fairly planar, locky v. sinous. also pale y Carb zones up to 20 cm occasionally through here, dol-rich, low ap. ap up to 20% in gy sections. itsl bio locky up to few %, py diss <2% locky.</p> <p>mag - rich zones scattered from ~265.65 to 269.50 m typically <10 cm long, mag diss up to 30% (usually 10-20%), may have py associated up to 15%. also b-gr ambl xtls typically diss in mag zones, up to 30%.</p> <p>269.15 to 269.50 m - bio phen diss up to 20% locky, looks up to 8 mm long, mag and ambl common diss through here.</p> <p>269.50 m to end - gdmass lt gy-pale y, wkly bnd, cc pods up to 5% throughout. bio, py, ambl? (b-gr clusters (v.f.g)). all diss, all <5% individually <1? locky pych diss?, up to 1%, blk equant, < 2mm. at 270.75 m - 4 cm zone with fl bnds, <30%, trace diss tan-br min.</p> <p>lower ctc at start of cc-Carb.</p> <p>bndg msmt at 264.75 m = 55° TCA, 270.40 m = 55 to 60° TCA. interval = 370-1000 CPS.</p> <p><u>cc-Carb</u> mostly pk with gr, blk bndg. mass to wkly, bnded, eqgr, c.g.</p> <p>ap diss in bnd/patches, avg 5 to 15%.</p> <p>gr and blk bnds throughout interval, +/- continous sections up to 1 m, typically pk cc-rich bnds break them up. these have di (up to 30% locky, gr, + ap), ambl (b-gr, <5% locky) and mag (blk, up to 20%, and bio up to 10% locky) all diss. concentrations not usually max all at same time, some bnds richer in di, some mag/bio, etc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 279.70 | 284.99 | - | | <p>ibd dol-Carb sections from 273.04 to 273.75 m and 276.65 to 277.10 m. pale y, m.g wkly bnded - bnds typically v.f.g diss mag +/- bio. bndg msmt @273.60 m = 45° TCA.</p> <p>this dol-Carb has abnt cc in gdmass, 5-10%? but little - no ap. also bnds/sections all <30 cm, broken up by short pk cc-Carb bnds.</p> <p>~3 cm jagged 'vug' at ~272.20 m, packed tight with bio, small frac radiating away (also bio-filled).</p> <p>ibd bio - rich bnds/Glim frags? from 273.75 to 274.10 m, at 275.60 m (10 cm band) and 277.50 m (15 cm bnd). bio clusters/frags up to 2 cm, ang, 30-70% broken up with cc bnds/vns throughout itsl to bio also b-gr ambl commonly diss, <10%. Interval = 300 to 600 CPS.</p> <p><u>cc ap dol-Carb</u> pale y-gr, minor gy clusters throughout; mass, suc text, fairly homo, mod frac locly. f.g to m.g.</p> <p>cc-enriched throughout, in gdmass and small pods. throughout, ~5-10%.</p> <p>ap diss throughout 5-20%.</p> <p>faint gr-gy clusters tinted by f.g. ambl? (up to 10%) and ap, dol + sul? fairly common throughout may also have bio diss locly, <2% . 283.80 to 284.50 m - clusters coarser grained, dkr, here also equant dk br min diss - pych (<2 mm grains, <3 %).</p> <p>@279.75 m - diss r min grains, all f.g., <1%, not sure what it is... more at 282.65 m, in pockets with cc - might be REflc??</p> <p>281.27 to 281.70 m - ibd cc-Carb, pale pk, c.g., gr cluster/patches up to 4 cm scattered throughout - di + bio.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 284.99 | 315.17 | - | | <p>~282 to 283.80 m, minor (amb? <5% locly) - no clusters, gdmass dominates (more gr than y here). cc pods common, up to 1.5cm long locly. minor frags and diss bio.</p> <p>interval = 450 to 650 CPS up to 1400 CPS at 283.90 m.</p> <p><u>cc-Carb</u> lt gy/w-pk, blk, gr bnds/patches, hetero, mass - bnd; c.g.</p> <p>top to 295.75 m - cc dominatly pk with patches/bnds throughout that are bright gr - di. mostly <1 cm wide bnds or grouped clusters, but fairly continuous di from 283.80 to 290.20 m (up to 25 cm long uninterrupted zones just di (almost no diss mineralization (mag/bio))) di up to 40%, mixed with cc. comonly these zones also have mag and bio phen diss (up to 10% each) and dk pk to r pods (<25%). mag phen <1 cm, suh.</p> <p>"clean" cc zones all < 15 cm here, pale pk-w away from mineralization.</p> <p>288.99 to 289.20 m - dk gy to gr bnd, cc restricted to small itsl patches (1%), gdmass is di with mag phen up to 50% locly and bio <30%.</p> <p>293.50 to 295.75 m - unique text, dk r cc lines, pale pk cc which form elongated elipses <<1 cm wide with small green di pods scattered throughout. and mag phen diss locly.</p> <p>below 295.75 m - cc rarely p, mostly w-lt gy, still c.g.</p> <p>gr patches/bnds similar character as above, not common from 295.75 to 301.10 m - zones of "clean" cc up to 1 m long, only minor diss mag, bio and dk b-gr amb? (<5% each).</p> <p>below 301.10 m - gr bnds/zones dominate, diss bio up to 20% locly (mostly <5%).</p> <p>bio/Glim? frags up to several cm from 301.65 to 301.90 m, fairly cohesive/not broken up. more at 310.50 m and 312.40 m.</p> <p>late stage Carb vn? @304.25 m, ~1 cm wide, sharp ctcs, pale gr (may just be f.g. di?).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 315.17 | 320.86 | - | | <p>more "clean" cc at 311 m.</p> <p>dol-Carb w-pale y; hetero, mass, f.g.</p> <p>upper and lower ctcs at switch between cc and dol as dominant carbonate.</p> <p>ibd pk cc-Carb near top, 15 cm bnd, minor gr-gy clusters (bnd).</p> <p>most of Carb demineralized, ap restricted to clusters scattered throughout (rare).</p> <p>316.30 to 316.53 m - zone of diss bio, py, mag (latter up to 25%). up to 420 CPS.</p> <p>bnd with trace fl at 319.08 m, <1 cm wide fl patch also at 317.20 m, <5%.</p> <p>minor fracs @317.40 m and 318.50 m, bio filled, cc pods surrounding.</p> <p>@317.60 m - bio cluster/bnd, fracture-filling?, py diss here up to 25%.</p> <p>319.43 to 320.40 - fracturing, bio filled, cc abnt through this interval (~10%?) bottom 25 cm all bio, cc.</p> <p>@320.40 m - couple bnds f.g. dk gr-p (ambl - fl). interval = 250 to 350 CPS.</p> | | | | |
| 320.86 | 344.35 | - | | <p>cc-Carb lt gy-pk, dk gy-gr clusters throughout hetero, mass, c.g.</p> <p>gr bnds/clusters all restricted to few cm; diss, phen (mag, bio) not common, up to 20% locly.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>322.40 to 322.85 m - dk gr-gy zone, di gdmass with mag phen (up to 30%), hem locly? minor itsl cc.</p> <p>322.90 to 324.50 m - ibd dol-Carb, pale y f.g., mod cc pods scattered throughout, bio phen diss <2% mag-py bnd @323.40 m.</p> <p>clean w cc from 331.90 to 335.55m and 241.35 to 342.30 m >98% cc, mass, c.g.</p> <p>340.90 to 341.35 m and 342.30 to 343.78 m - bio/Glim frags, clusters/clsts up to several cm, only minor fracs.</p> <p>major frag groups only continuous for <20 cm, remainder of these sections is gr gdmass and bio, mag (up to 40% locly), py (euh, up to 1 cm xtls), phen. gdmass dominatly di with itsl dol <30%. these sections have sharp ctcs to cc-Carb.</p> <p>locly mineralized patches (di gdmass with diss mag phen) with diss pych - br xtls up to 2 mm, up to few % higher CPS. good zones 334.25 m, 335.10 m, 339.85 m, etc.</p> <p>interval = 200 to 600 CPS, locly up to 1000 CPS.</p> <p style="text-align: center;">EOH</p> | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|--|
| Property: Eldor Property | Easting (m): 536498.41 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 21, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6311989.23 | Rig Type: Discovery I | Date Completed: Sep 24, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087791 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: All ap was ID'd as white under UV light |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 286.78 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 9.48 | - | | <p><u>Ovb/bldrs</u></p> <p>various pieces of diff. lithos; 1 - dol; c.g. w; ctsc, 2 - IBF bldr; Fe-oxidation; r bnds, 3 - Amt; f.g. steel b amph; few f.g. cc vnlets.</p> <p>this area for drilling is in a bldr field; thus abnt Ovb.</p> | | | | |
| 9.48 | 10.35 | - | | <p><u>Mg dol-Carb</u></p> <p>f.g. to c.g.; ctsc, mylonization; abnt sheared + fracd Carb; c.g. dol is w; f.g. dol is med gy; few fracs infilled with f.g. fl; abnt broken core.</p> <p>2% v.f.g ~ ap. 2% v.f.g. frac filling fl. 96% f.g to c.g. med gy-w dol.</p> <p>avg RA=400 CPS</p> | | | | |
| 10.35 | 14.75 | - | | <p><u>flc F-Carb</u></p> <p>m.g. to f.g.; pale ol-gy; few ctsc, with abnt f.g. F-Carb vns; abnt f.g. fl infilled fracs, few lim/hm fracs, few f.g. diss py; abnt f.g. diss fl; common flcs r-p min associated with diss fl prs? trace ap, trace lim+hm trace py (and other sul), 15% f.g. frac filling + diss fl + flcs, 85% f.g. pale ol-gy fe dol.</p> <p>avg RA = 490 CPS</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 14.75 | 19.27 | - | | <p>@11.40 to 11.60 m - f.g. bnds of r-br ilm/hm also along fracs.</p> <p><u>ctsc flc F-Carb</u></p> <p>m.g. to f.g.; med gy to pale ol-gy; mostly ctsc; mass; f.g. diss flcs; few v.f.g. pale ol-gy homo vns; few v.f.g. diss py; broken pieces of core; m.g. w ap 2-30% speckled bnds.</p> <p>trace py, 10% ap (avg), 15% f.g. diss flc, 15% v.f.g. pale ol-gy dol vns, 55% m.g. w gy dol.</p> <p>avg RA = 515 CPS</p> | | | | |
| 19.27 | 31.27 | - | | <p>@18.44 to 18.68 m - abnt fracs infilled with f.g. fl.</p> <p><u>brecd flc F-Carb</u></p> <p>m.g. to f.g.; pale ol-gy mtz; lt gy to pale tan w dol clsts; fracd dol with spaces infilled with f.g. fl, f.g. dk gr chl and v.f.g. gy dol; brc; mass; sub-rnd to sub-ang clsts; f.g. bio between clsts.</p> <p>clst types: 1 - m.g. w dol; mafic speckles; 2-12 cm wide; common bio fracs; few f.g. fl blebs; <40% ap, 2 - f.g. dol + bio clsts; diss py; 3-6 cm wide, 3 - f.g.; med gy; dol; 0.5-4 cm clsts; more commonly rimmed with f.g. bio; few chl speckles.</p> <p>trace py, trace fl, 1% mag, 20% bio, 79% dol.</p> <p>avg RA= 520 CPS</p> <p>@29.15 m - m.g. mag phenos, glomercrystic.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 31.27 | 94.00 | - | | <p>few late stage homo Carb vnlets x-cut.</p> <p><u>flc F-Carb</u></p> <p>f.g.; pale ol-gy; abnt homo late stage vnlets-vns x-cut; f.g. fl + flcs with two habits: 1 - frac + vug filling 2 - f.g. diss + speckled + blebs; few lim frags; xtln text; few f.g. suls; few m.g. ap (id with UV) diss.</p> <p>trace bio, trace suls, 2% ap, 20% fl, 78% dol.</p> <p>@35.00 m - RA = 720 CPS; 100% Th +15.17 ppm</p> <p>late stage homo Carb vns are 50-85° TCA these vns commonly shear the mineralization if the vn cuts through a mineralized dol-Carb.</p> <p>f.g.; pk-p; diss parisite is commonly associated with diss fl.</p> <p>@42.70 to 45.80 m - abnt f.g. homo late stage; pale ol-gy F-Carb vns.</p> <p>vns=65° TCA, RA=800-1100 CPS</p> <p>@45.80 to 45.89 m - few brc dol; common f.g. bio between sub-ang dol clsts 0.3-1.5 cm wide.</p> <p>abnt fl + parisite blebs.</p> <p>@52.00 m - homo vnlets = 60-80° TCA, RA = 1120-1220 CPS, Th = 335.5 ppm</p> <p>majority of late stage homo vns are close to perpindicular TCA; v. few run close to parallel TCA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@ 52.33 to 52.46 m - m.g. w ap-band; 40% ap concentration in pale ol-gy dol.</p> <p>@ 59.55 m - RA=1000 CPS; abnt fl blebs.</p> <p>common vugs infilled with cc rim then fl centre or bsn centre, common frac infilled with just fl from 61-64 m.</p> <p>@ 64.50 m - Carb colour is a lighter pale ol-gy; still abnt late stage vns; fewer fl blebs, common eud f.g. py.</p> <p>@ 71 m - RA = 880 CPS</p> <p>71.15 to 75.50 m - abnt f.g. bio in frac; m.g. to c.g. eud diss py; few smeared bio vnlets with sul; common chloritization of bio.</p> <p>bnds of f.g. diss fl perv with abnt f.g. homo late stage Carb vns.</p> <p>@ 79.90 to 81.04 m - common bio/chl frac; few f.g. diss py; two 3 cm w dol clsts. RA=1200 CPS</p> <p>@ 82.14 to 82.47 m - common thin frac with lim/hm; common frac filling fl.</p> <p>@ 87.08 to 87.20 m - fracd vugs infilled with f.g. bio/chl; concentration of ap varies 5-15%.</p> <p>@ 90 m - RA=1000 CPS</p> <p>@ 91.77 to 91.87 m - brc dol clsts with f.g. bio/chl.</p> <p>@ 93.36 m - lim in frac.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 94.00 | 103.81 | - | | <p><u>(mnz?) F-Carb:</u></p> <p>f.g.; y pale ol-gy; mass; abnt perv diss + frac filling fl; abnt anh f.g. y-tan min (mnz?); 94.00 to 97.35 m is mod-str bndg; few thin fracs; few f.g. eud diss py; 97.35 to 103.81 m - is mass common ~0.5 cm vugs + frac filling fl; few f.g. w ap; mottled text.</p> <p>trace suls (py), 2% ap, 13% fl, 15% y-tan; anh f.g. min, 70% dol.</p> <p>avg RA = 500 CPS</p> <p>@97.55 to 97.58 m - lim brc r-br</p> <p>@102 to 103.81 m - few r-br min (bsn) f.g. diss; diss fl is lt p; vug + frac filling is dk p.</p> | | | | |
| 103.81 | 127.93 | - | | <p><u>bsn Mg? dol-Carb</u></p> <p>f.g. to m.g.; lt w gy with r-br speckles + med gy fracs; mass; diss patches f.g. y-tan (mzn?) min; dol <0.7 cm; common ap <15% locly; few f.g. sub diss py (with v.v.f.g mag + other suls); c.g. eud py along fracs; common fracs; common v.f.g. homo late stage vns.</p> <p>common mylonization; few bio/chl sks; trace to 20% locly ap.</p> <p>trace suls, 12% bsn (r-br), 20% y tan min (mnz?), 68% dol.</p> <p>@112.37 m - c.g. clear mass itsl qtz.</p> <p>@116.00 m - RA = 380 CPS (avg)</p> <p>few fracs with f.g. bio.</p> <p>125.95 to 127.90 m - higher concentration of bsn <25% and ap 20%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 127.93 | 181.67 | - | | <p>@ 127.90 m - RA = 350 CPS (avg)</p> <p><u>flc bsn Mg? dol-Carb</u></p> <p>f.g. to m.g.; Lt; w-gy; wk flow bndg; common f.g. late stage Carb vns; few f.g. bio/chl frags + sks (sp?); common f.g. py along frags; commonly aphanitic; common f.g. r-br bsn patches; common f.g. diss p flo patches; fl commonly, found in frags, abnt v.f.g. y-tan min smugged throughout; few c.g. dol in bnds commonly with abnt m.g. ap up to <40% locly; ap usually not associated with fl.</p> <p>ap not associated with bleb or frac filling fl but does occur with v.f.g. fl + bsn smeared bnds.</p> <p>137.71 to 141.10 m - 18% f.g. r-br bsn; bsn min bnds; more concentrated than surrndg.</p> <p>142 to 142.60 m - 18% f.g. bsn + 5% f.g. fl</p> <p>143.80 to 143.91 m - abnt bio/chl frags with m.g. sub py.</p> <p>147.85 to 148.80 m - 10 cm diss bnds f.g. fl <3%; diss f.g. r-br bsn bnds <35%; <2% Mg ap.</p> <p>149.31 to 149.97 m - diss f.g. bsn bnds <30%; trace f.g. diss fl; few m.g. ap bnds; wk fol.</p> <p>abnt diss f.g. y-tan (mzn?) throughout; min boundaries undefined too f.g.; itsl among dol.</p> <p>150.37 to 150.50 m - few f.g. fl blebs with mod fol; abnt y min (mnz?) f.g. perv.</p> <p>151.07 to 151.15 m, 151.38 to 151.78 m - f.g. r-br 5 cm wide bsn bnds <30%; few fl vnlets + wk bleb fol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 153.35 to 153.65 m, 154.44 to 154.67 m - f.g. speckled bsn in diss bnds; few fl itsl with bsn. | | | | |
| | | | | 155.20 to 157.00 m - m.g. w dol surrned by f.g. gy dol; <10% m.g. to f.g. ap locly. | | | | |
| | | | | 158.42 to 158.53 m - streamers of f.g. fl. | | | | |
| | | | | 158.82 to 159.48 m - f.g. diss bsn bnds with m.g. w ap. | | | | |
| | | | | 160.28 to 161.15 m; 161.70 to 162.18 m - f.g. diss bsn <30% bnds; f.g. bio + fl in bnds with m.g. ap. | | | | |
| | | | | 163.87 to 163.96 m - f.g. bsn + fl <25% bnd. | | | | |
| | | | | 164.23 to 165.18 m - granular m.g. diss ap <20%; f.g. diss fl <15%; wk fol; few late stage homo Carb vns. | | | | |
| | | | | 166.89 to 167.15 m - common fine frags x-cutting, f.g. bsn <10%. | | | | |
| | | | | 167.40 to 167.85 m - common brc + frags; small vugs filled with bsn and/or fl; dol rimming vug with fl centre. | | | | |
| | | | | still common y-tan (mnz?) min itsl throughout; v.f.g. poor min edge visibility. | | | | |
| | | | | 168.65 to 168.91 m - 7% f.g. r-br bsn, 3% f.g. fl patches; wkly fol. | | | | |
| | | | | 170.35 to 170.93 m - eqgr 10% white m.g. ap. | | | | |
| | | | | 171.15 to 171.42 m - 7% bsn/3% fl; smeared parallel TCA. | | | | |
| | | | | 171.91 to 172.52 m- 4% bsn/4% fl; deformed bnds + folds; few dism f.g. py. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 181.67 | 210.76 | - | | <p>172.91 to 173.20 m - 10% f.g. patchy bsn/4% f.g. fl; 0.5 cm late stage Carb vn with fl rim x-cut everything. few m.g. diss bsn; abnt y-tan (mnz?) min.</p> <p>173.35 to 179.10 m - common fracs; few dol/fl vugs; abnt deformed y-tan (mnz?) bnds; few f.g. diss py.</p> <p>177.80 to 179.10 m - ~2% m.g. diss bsn.</p> <p>179.80 to 181.40 m - few to common fl infilled vugs.</p> <p>avg RA = 370 CPS</p> <p><u>flc (mnz?) Mg? dol-Carb</u></p> <p>f.g. to m.g.; w m.g. dol; y-tan f.g. (mnz?); deep p diss patches f.g. to m.g. flcs; granular; mottled; common fracs; common thin late stage Carb vns; few f.g. eud diss py; locly <10% m.g. (w under UV light) ap; fl+ap usually are not associated together; ap will appear in m.g. dol-Carb; few v.f.g. bio in thin fracs; trace f.g. bsn diss.</p> <p>trace bsn, 1% suls (py), 3% bio, 15% flcs, 18% mnz?, 63% dol.</p> <p>avg RA = 290 CPS</p> <p>182.69 to 182.75 m - f.g. to m.g. fl blebs ~20%. followed by 10 cm wide late stage Carb vn.</p> <p>182.91 to 183.98 m - wk fol, fl blebs.</p> <p>188.65 to 190.66 m; 191.97 to 192.93 m; 193.68 to 193.87 m; 194.10 to 194.20 m; 194.42 to 194.76 m - mottled fl blebs with v.f.g. mnz (no, low ap) few f.g. eud py. common 4 cm late stage Carb vns.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 210.76 | 216.10 | - | | <p>196.50 to 199.39 m - common v.f. bio frags + vnlets in m.g. dol, trace ap.</p> <p>199.39 to 201.34 m - ~25% m.g. fl diss; mottled; y-tan mnz? itsl, no ap.</p> <p>201.80 to 202.50 m - abnt frags in m.g. dol-Carb; brc; suls (py) along frags; ang clsts few fl blebs.</p> <p>202.50 to 207.60 m - v.f.g. aph gy dol mtx; mylonitization common; common blob-patches of f.g. ap; few m.g. fl blebs; few infilled vugs with dol, qtz, fl + chl; 1 cm wide elongate rnded dol clsts.</p> <p>208.27 to 209.01 m - aph mtx; common thin frags with fl + bsn.</p> <p>209.49 to 209.76 m - brc, sub-ang dol + bio clsts; itsl f.g. bio/chl.</p> <p>209.76 to 210.76 m - smeared (parallel to CA) fl + mnz?</p> <p>avg RA = 300 CPS</p> <p><u>flc bsn (Mg?) dol-Carb</u></p> <p>f.g. to m.g. w eqgr dol; diss f.g. to m.g. bsn mod flow direction + defomled bnds in m.g. dol; v.f.g. mnz patches throughout (usually associated with fl patches); f.g. to m.g. fl flow bnds; few vugs infilled with qtz chl or fl; few f.g. eud diss py cubes; few late stage vns common frags; mottled; rndg of dol from flow.</p> <p>locly <25% flo (max), locly <35% bsn (max), locly <40% ap (max), usually not associated with fl.</p> <p>avg RA=250 CPS; 100% Th = 49.7 ppm</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 216.10 | 263.63 | - | | <p>210.76 to 211.14 m - v.f.g. bsn in flow bnds (~15%).</p> <p>211.14 to 211.80 m - v.f.g. mnz in f.g. dol; common frags infilled with bsn.</p> <p>212.10 to 213.25 m - f.g. 8% fl + 10% mnz flow bndg.</p> <p>213.25 to 213.82 m - f.g. 15% bsn; common frags; vugs infilled with qtz +bsn; ~10% ap elongate flow blobs parallel TCA.</p> <p>213.82 to 216.10 m - f.g. mnz 4% + m.g. fl 12% is itsl in a flow bndg.</p> <p><u>bsn (Mg?) dol-Carb (BD zone)</u></p> <p>m.g.; w dol; itsl f.g. r-br bsn; mass eqgr to mod flow bndg; common late stage pale ol-gy vns; few v.f.g smeared fl in late stage vns + few f.g. diss fl; few frags with v.f.g. mafics bio?; few chl-bio frags; few vugs xtld dol-bsn (out to in);</p> <p>trace fl, trace bio (+chl alter.), 20% ap (w under UV light), 20% bsn, 60% dol.</p> <p>avg RA=240 CPS</p> <p>@216.80 m - ilm frac perpindicular to CA.</p> <p>218.37 to 219.51 m - late stage aph Carb vn, pale ol-gy with p fl streaks; parallel to CA; few continuous bio vnlets in vn.</p> <p>219.51 to 222.30 m - mass granular to v. wk. flow bnds; ~8% m.g. w ap.</p> <p>224 to 224.27 m - mass m.g. band; 5% f.g. ap, 10% f.g. bio; wk conglomerate.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 224.69 to 227.40 m - late stage aph Carb vn; smearing bsn + few fl mineralization; parallel to CA; few empty vugs + few vugs with dol + bsn; vn x-cut mass bsn Carb. | | | | |
| | | | | 230.52 to 231.32 m - few brc calc-mafic sub-ang clsts surrned in late stage pale ol-gy vn. | | | | |
| | | | | 231.86 to 234.48 m - patchy bsn (rather than mass even diss); m.g. dol; m.g. ap. | | | | |
| | | | | 235.14 to 235.60 m - mottled deformed flow bnds of bsn. | | | | |
| | | | | 237.85 to 238 m - 1% f.g. diss fl. | | | | |
| | | | | 239.80 to 239.90 m - 2% f.g. diss fl. | | | | |
| | | | | @242.16 m - 1 cm 80% fl blebs. | | | | |
| | | | | 242.37 to 242.41 m - 4% f.g. diss fl. | | | | |
| | | | | 242.77 to 245.48 m - no bsn or fl or ap mineralization; m.g. eqgr w dol; common bio vnlets with few f.g. eud py. | | | | |
| | | | | 245.48 to 247.88 m - m.g. dol + f.g. bsn; wk fol; ~20% m.g. diss ap, common frags; fl blebs at 246.23. | | | | |
| | | | | 247.88 to 248.63 m - f.g. to m.g. w dol; no to v. few ap; few thin f.g. bio vnlets with few v.f.g. py. | | | | |
| | | | | 248.63 to 249.35 m - late stage homo pale ol-gy; deformed undulating ctcs; 2 cm wide dol patch; few bsn + py grains in frags around dol patch. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 263.63 | 286.78 | - | | <p>249.35 to 257.62 m - m.g. to f.g. dol with f.g. diss bsn; few f.g. eud py; common thin frags; ~20% ap; wk-mod bndg.</p> <p>257.62 to 260.42 m - med gy mtx (v.v.f.g. dol?) with f.g. bsn + m.g. w dol + m.g. w ap; quantities vary, wk bndg; 2 x 2 cm withd out vugs.</p> <p>260.42 to 262.49 m - m.g. dol; v. poor mineralization; few bio vnlets; 1 cm wide qtz vn with pale pk cc; late stage Carb vn x-cut dol.</p> <p>262.49 to 263.63 m - med gy mtx (dol?) with f.g. bsn + m.g. w dol + m.g. w ap; common mm scale open vugs; 3 cm wide fl bleb area; wk to mod bndg.</p> <p>263.63 m to end of hole has considerably less mineralization.</p> <p><u>(Mg?) dol-Carb</u></p> <p>m.g. to f.g.; w dol; common bio in str bnds and fol; common frags; few f.g. bsn mod-str bndg; few f.g. fl mod bndg; few late stage pale ol-gy Carb vns; f.g. diss py.</p> <p>trace suls py, trace fl, 2% bsn, 8% ap (up to 20% locly) , 10% bio, 80% dol</p> <p>avg RA = 240 CPS</p> <p>bndg + fol = 50° TCA</p> <p>264.80 to 265.08 m - dol vugs + open vugs.</p> <p>265.19 to 270.80 m - poor mineralization in w dol.</p> <p>271.90 to 272.40 m - 7% fl blebs in 10 cm, 5% f.g. diss bsn over 50 cm.</p> <p>286.49 to 286.78 m - few f.g. diss bsn <5% itslly in dol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|-------------|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|--------------------------------------|------------------------------|
| Property: Eldor Property | Easting (m): 536501.75 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 25, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6311992 | Rig Type: Discovery I | Date Completed: Sep 28, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087791 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 9.14 m | Note: Imperial to metric rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 50° | Core size: BTW | End of Hole: 378.51 m | change at @ 130.24 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Peter-Rennich, R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 10.68 | 25.23 | - | | <p><u>deformed lim altn dol-Carb (B Zone?)</u></p> <p>Two different Carbs with abnt late stage homo dol-Carb vns; abnt fracs + broken core; lim common along fracs; abnt brc; 1 - w m.g. dol (~2 mm) Carb patches; poor mineralization; v. visible mylonite + brc between grains, ~8% w ap; few fl in fracs around grains but never itsl; no bsn; trace diss f.g. py. 2 - flc F-Carb; aph mtx; pale ol-gy, perv f.g. to m.g. flc diss itslly and frac filling; trace ap; few mm scale vugs infilled with dol rim + fl centre. 1>2; 95% dominantly Carb 1. (trace suls, 2% fl, 4% ap, 14% lim, 80% dol) (average RA = 550 CPS) (loclly up to 750 CPS).</p> <p>0.00 m - w dol-Carb with undulating ctc from intruding fracs filling fl Carb at 11.91 to 12.52 m.</p> <p>12.80 to 14.34 m - med gy f.g. mtx with m.g. to c.g. dol grains ~3% w ap; mass; common late stage Carb vn.</p> <p>14.50 to 25.23 m - abnt shearing, mylonitization frac of dol-Carb; few fl along fracs; abnt 13-14 cm sections of brc core with lim along fracs.</p> | | | | |
| 25.23 | 33.62 | - | | <p><u>fracd dol-Carb</u></p> <p>m.g. w-pale tan; ~2 mm grains; aph pale tan min diss throughout; abnt late stage homo pale ol-gy dol-Carb vns; abnt fracs + brc; 5-30 cm patch of flc F-Carb with f.g. diss fl; few fracs filled with fl; common thin f.g. bio vns single + in patches; few diss f.g. end py along vns; few fracs infilled with lim. trace (py) suls, 1% fl, bio, loclly up to few % otherwise not existant ap, >85% dol.</p> <p>30.50 to 32.63 m - non- frac sections common, up to 50 cm long, commonly w dol grains with itsl fl gdmass or pale gr-ol gdmass.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 33.62 | 95.50 | - | | <p>late stage pale ol gy Carb vns are 1-20 cm, no consistent orientation (framework), all f.g. aph, may have smeared fl bnds within (not common).</p> <p><u>dol-Carb</u></p> <p>lt gy-tan-pale ol-y; very hetero interval; locky wkly-mod bnded; common text dol grains <5 mm in aph gdmass (gy-pale y-p fl) - brc?/ctcsc. this is overprinted throughout by lt ol-gy late stage Carb vns (common-abnt) - f.g. than gdmass of host Carb no constant orientation, typically 1-5 cm thick ctcs not always razer sharp but easy to ID. may be bnd/lam. Minor fracs throughout, locky increase mostly bio infilling.</p> <p>w lt gy dol patches locky, suc text, f.g. <20 cm long.</p> <p>brc/ctsc zones with itsl fl not as common as dol-rich gdmass, typically <15 cm long, 5-10% fl.</p> <p>single bio flakes/clusters scattered locky (never grouped with others), <1 cm may have f.g. og-r min within (bsn/REflc?, trace). f.g. bio diss locky - dk gy bnds/zones bio mixed with dol, bio ~5%.</p> <p>minor ap locky scattered single grains or loosley formed bnds, <5%.</p> <p>37.40 to 37.80 m - bio clsts/frags up to several cm common vug-filling? minor fracs associated (filled with bio), sharp ctcs to Carb surround bio frags. top of this zones delimited by late stage Carb vn, bottom continuous to typical Carb.</p> <p>lim/Fe-OH filling fracs locky, minor (esp. 40.30 m).</p> <p>44 to 45.10 m - rock dominated by lt gy f.g. gdmass, w dol grains rare mass, homo, minor fracs.</p> <p>45.10 to 45.60 m - ol-gy late stage Carb vn overprinting, f.g. aph, mass sharp ctcs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>54.51 to 55 m - another significant vn, minor fl filled fracs within.</p> <p>47 to 49.70 m - rock not brc - undisturbed Carb? m.g. eqgr minor itsl fl locly (increases down).</p> <p>52 to 54 m - patches of w lt gy dol (mass, suc text, with minor fracs x-cut) vs. brc/ctsc rock, all cut by late stage Carb vns/bnds <8 cm wide, typically with fl, fairly even spacing.</p> <p>@54.50 m - 20 cm long section with abnt itsl fl (<15%).</p> <p>57 to 57.70 m - mass suc w dol with common bnds, these are mostly fl/bsn-rich (trace diss) or pale br (trace f.g. sulfides?) trace f.g. bsn/REflc? appears locly, esp. from 55.75 to 58.25 m - in bnds/patches, overall rare.</p> <p>58.20 to 62 m - f.g. non-brc, pale br-gy-gr Carb dominates increased f.g. bio? (<few %), suls?</p> <p>58.40 to 75.50 m - abnt late stage Carb vns, typically lam/bnd, sharp undulating/smeared ctcs.</p> <p>65.25 to 67.50 m - increased altn/brc, bio patches common (up to few cm, filling vugs?), also bio-filled fracs. also fl-rich patches locly (vns?, these parallel f.g. remobilized Carb bnds).</p> <p>68.50 to 78.50 m - zones of itsl fl common, typically 5-15 cm long (<40 cm), fl mostly 5% rarely up to 25% (72.25, almost blk).</p> <p>70.40 to 81 m - rock fairly homo despite late stage Carb vns, w dol grains with pale y-gr gdmass + fl locly (as described). mottled text, fracs through this section commonly infilled with lim/Fe-OH, minor except 78 to 80 m.</p> <p>Down to 95.50 m - this text is mixed with lt gy-tan Carb f.g., locly brc, no dol clsts/grains.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 95.50 | 178.73 | - | | <p>89 to 92 m - mod-abnt fracs, fl or bio py filled (dk gr min common near bottom, itsl, 20 cm long zone ambl?).</p> <p>fn/bndg msmt at 40.25m= 35-40° TCA, 50.25m= 20-25° TCA.</p> <p>interval= 300-450 CPS, locly up to 600 CPS (not common).</p> <p><u>dol-Carb</u></p> <p>tan lt gy; hetero, strly frac throughout even brc locly (clst supported). also abnt late stage Carb vns, increase down. dol grains/xtls typically m.g. to c.g. (host Carb is mostly w lt gy, mass, ang dol grains dominant with minor gdmass, minor accessory minerals).</p> <p>fracs throughout bio + fl filled, usually fl withing bio. mostly abdt in top 10 m. locly (uncommon) pockets of bio up to few cm (network of mini vnlets?).</p> <p>late stage Carb vns are tan-lt br-pale ol, typically <5 cm wide, f.g. homo (locly these Carb vns may have f.g. fl within lams).</p> <p>102.50 to 107 m - fl diss locly, zones <30 cm, up to 20% but mostly <few %.</p> <p>108 to 123.50 m - occasional late stage brc vns, gdmass/mtx looks similar to other pale ol vns but floating inside are w dol grains and blk bio clusters, mtx supported. clsts are all <few mm. (also significant 138 to 139.59 m this vn also has common fracs/vnlets with fl infilling fl patches (rare, clsts or in mtx?) and other clsts of Carb (sourced from host Carb).</p> <p>in addition to lt ol gy vns there are tan cream colored late stage vns these are also f.g., typically <few cm wide.</p> <p>113.50 to 123 m - most lt ol-gy Carb vns have minor-mod fl within laminae/bndg, this fl mostly converted to bsn/REFlc downwrds - r-br-p, also fl/bsn common, diss in host Carb in this section <15% locly, itsl to dol grains/xtls.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 178.73 | 194.30 | - | | <p>gr itsl patches locky - f.g. sul or ambl in gdmass?</p> <p>gr ambl xtls locky, up to 7 mm, common ambl near edges or within late stage vns. Well developed at 123.20 m.</p> <p>brc zones adjacent to some vns, mtx supported; clsts typically w dol sub-ang, up to 1 cm; mtx dk gy with fl, bio, ambl; all f.g. to m.g. these zones <15 cm wide.</p> <p>126 to 140.80 m - late stage vns up to 50 cm long, ol gy- gr Carb between these vns mostly w dol-rich (mass m.g.) with med gy frags.</p> <p>ap up to 30% locky in host Carb (erratic distribution) Carb has lt ol-gy bnds/patches locky.</p> <p>@127.85 m - brc zones have bsn REflc-rich mtx/in gdmass (up to 5%) sub-ang dol clsts up to 1 cm.</p> <p>141.25 to 142 m - dominantly late stage Carb vn (ol gy-gr), smeared/lam text with fl layers, patches.</p> <p>148.70 to 150.75 m - diss fl in host Carb common <5% locky . this rock f.g. to m.g., homo (except few vns x-cut), equigranular.</p> <p>162.50 to 163.15 m - Carb is w, mass dol-rich demineralized (except trace fl specs diss locky). few late stage vns x-cut- these are <5 cm wide, similar orientations, ol-gr +/- trace bsn/REflc.</p> <p>163.50 m to end - host Carb is fairly similar/homo, w-lt gy, locky itsl patches filled with fl, bsn?, ambl?, bio.</p> <p>late brc vns locky, 167.50 m to end (similar to those described previously) these are wider than homo f.g. vns abover 167.50 m.</p> <p><u>bsn ap dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 194.30 | 207.75 | - | | <p>w-lt gy, pk tinge and r specs common. mottled text, mod-heavy fraccd, late stage Carb vns common, hetero.</p> <p>ap in gdmass throughout most of Carb, 5-20%.</p> <p>bsn/REflc typically f.g. diss in mtx, trace, with pk colour. top to 180 m, text foggy pink bsn-rich patches + gr ambl? patches, minor fracs (with fl infilling). c.g. fl specs locly diss, 179.30 to 179.70 m, c.g. bsn + fl (being converted to bsn) + ambl diss up to 5% each.</p> <p>188.75 to 191.75 m - more f.g. foggy text Carb, this is pk-y-gr mod-abnt fracs (start of late stage Carb vns>, gr). also bio patches locly (uncommon) diss m.g. bsn/REflc xtls and fl locly, (these up to few %).</p> <p>Carb away from these sections is w dol grains/clusters (sub-ang) surrounded by variable mtx (y-gr-pk) or fracs. may have bsn/REflc, fl trace, ambl? diss locly gr, diss <few %.</p> <p>diss mag at 180.75 and 185.40 m - these zones <15cm, mag <5%.</p> <p>late stage vsn, f.g., pale ol-gr-y, some lam/bnd, some mass (esp. 184 to 186 m) c.g., may have dk gy-b patches up to 10 cm long vitreous/translucent with bio patches 5% (sul?).</p> <p>193 m to end - again variable colored f.g. foggy Carb as seen further up, minor fracs, zone mostly overprinted by diss fl (c.g., bright p, up to 50% locly 20% throughout, concentrated 193.24 to 194 m) close to bottom, increased bsn (pk) and amble? (gr).</p> <p><u>ap dol-Carb</u></p> <p>pale tan-lt gy-pale ol-gr. hetero dominant text w lt gy dol-rich, Carb mass, with fracs locly, mottled text locly. f.g.</p> <p>ap throughout ~5%, locly up to 25%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>brc, down to ~195.65 m - mtx supported, mtx/gdmass shifts gradationally from similar to above, to gy and bio-rich clsts are mostly w - dol-Carb and ap (very common!), sub-ang, up to few cm, also minor, small fl clsts and bio clsts.</p> <p>this brc gradational to w mass do Carb below, mtx of brc is same as material in frac (which is abnt and decrease and tighten/close downward this text continues down to 198.40 m.</p> <p>late stage Carb vns increase down (tan-pale ol), sharp ctcs. continue throughout interval.</p> <p>diss ambl (?) locky, b-gr, <5% occaional dk gy patches +/- fl surrouding, up to few cm, mass vitreous/translucent, hard (country rock?, gy fl?).</p> <p>198.40 to 199.27 m and 201.40 to 201.80 m - text dominated by w dol grains sub-ang, <6 mm highlighted by pk to y gdmass - bsn/REflc (f.g. diss, up to few% locky) also itsl bio locky.</p> <p>Patches of diss ambl locky, ~5%, dk b- gr.</p> <p>solid late stage Carb vn from 199.85 to 200.60 m - pale ol, lam, sharp undulatory ctcs similar to other vns (just bigger).</p> <p>202.05 to 206 m - mtx gdmass dk gy-gr, only minor patches with w dol ap. not same material as vns - ctc with vns within this section visible, sharp. ambl-rich? b-gr patches/grains common. mottled text.</p> <p>also minor fl patches locky 204.50 to 205.90 m - this rock covered with diss fl, up to 30% locky (most abnt top and middle, decrease down).</p> <p>mottled text and dkr gr mtx continue to end, w-pale y dol ap grains/clusters common to end also minor itsl fl locky.</p> <p>gradational lower ctc-stop of lt gy-w tan dol ap clsts.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 207.75 | 232.63 | - | | <p><u>dol-Carb</u></p> <p>med gy-gr-ol. mass, mottled text f.g. to m.g. (interval large late stage Carb vn?).</p> <p>gdmass/ itsl material of prev, unit transfers to this interval as prime constituent.</p> <p>top m smeared text, lam, minor fl. locky lam throughout, wavy.</p> <p>patches of diss fl from 208.75 to 210 m, 213.75 to 215 m. these appear wkly bnd other larger fl clusters at 215.60 m and elsewhere.</p> <p>209.90 to 212.30 m - gdmass is massive not lam/smeared, no vns etc., very uniform. clst/ grains diss throughout but widley spaced, consist of fl-bt-dol, mostly <1 cm, increase near bottom.</p> <p>212.50 m to end - w lt gy dol patches, scattered. zones up to 1 m long, usually mod fracs ambl (?) diss locky up to a few % commonly late stage Carb vns x-cut and breaking up these zones. locky dol forms grains/clusters <1 cm with abnt itsl material - ambl? fl, ol-gy gdmass as seen elsewhere.</p> | | | | |
| 232.63 | 282.77 | - | | <p><u>ap dol-Carb</u></p> <p>unit alternates between pale tan/y-w-lt gy dol ap-rich rock and lt b-gy-pale o-gr rock, very hetero, mottled text. f.g. to m.g.</p> <p>ap content throughout interval >5% up to 50% locky (w dol ap patches).</p> <p>interval starts with w dol ap rock with tan-pale gr-gy mtx/ gdmass. mottled text. w dol grains (cc-rich, pk UV) <1 cm; also w-tan ap-rich grains/patches ap also common in mtx.</p> <p>minor late stage Carb vns <few cm, pale ol. also sections with little to no mtx/itsl material, just ap dol rock. minor fl patches. these zones alternate first 1.5 m, always <50 cm long.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>this text mostly repeats down to ~245 m. interrupted by sections up to 1 m long of pale ol-lt b-gy rock. these sections (starting at 234 m) are f.g. mottled text. small fl patches, strings diss throughout, <few %.</p> <p>lt b-gy patches not as abnt as pale ol-y rock- ambl-rich? tan min diss throughout these zones <1% Nb-pych? this rock also has minor late stage Carb vns <few cm, sharp ctcs, pale ol-lt gy.</p> <p>236.60 to 237.70 m - itsl to dol ap grains, mtx is pale pk - f.g. trace diss bsn/REFlc?</p> <p>minor diss gy min locly , <1% ambl? suls?</p> <p>238.50 m - fl mtx, itsl to dol ap grains (ang), up to 5% here.</p> <p>w-lt gy dol ap patches 238 to 249.50 m - are locly mass; uniform, not mottled text. No mtx, fracs more common.</p> <p>@237.45 to 237.75, 239.50 m, 240.60 m (very minor), and 242.20 to 243.50 m (intermittent) - mtx/ itsl material is r - bsn/REFlc up to few % locly may also be fl these zones do not persist far.</p> <p>241.20 to 241.65 m - b-gy patches overprinting pale ol-tan rock. These likely dol sul rich (+ambl?).</p> <p>245 to 251.50 m - med gy-b-ol rock dominates, still mottled text. minor late stage Carb vns x-cut, pale ol-tan. rock is altd/broken at ctc with vns. through this section, w dol ap grains scattered/diss locly (widely spaced) and zones up to 1 m long (esp. @248.40 m) gy mtx/ itsl. fl in patches/clusters and grains diss throughout, up to 30% locly.</p> <p>251.50 m to end - w-pale tan dol ap clsts/patches varying in size from <few mm up to 15 cm long undisturbed/mass zones mostly the grains/patches have b-gy-pale ol itsl material (similar above). also minor fracs scattered throughout, increase bottom few m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 282.77 | 287.65 | - | | <p>253.70 to 254.40 m - brc zones, clsts dol ap? with r-br staining (lim/FeOH), ang, mtx is blk- rich+ sul, mostly restricted to <5 cm seam running ~parallel TCA for this length. size of clsts and width of brc decreases toward edges.</p> <p>minor itsl fl locly, <5%.</p> <p>257.90 to 258.50 m - mtx/ itsl material mostly, bsn/REFlc (r) or fl (dominant) dol grains are w, ang-sub-ang, <5 mm.</p> <p>261 to 263.65 m - intermittent bsn itsl/as mtx, locly <5%, rest of mtx here is pale ol-gr fl frags/vns locly.</p> <p>263.65 to 264.87 m - fairly homo section of pale ol-gr gdmass/mtx with w dol/ap grains</p> <p>264.87 to 269.60 m - again mtx enriched in bsn/REFlc (+/- fl locly), up to 10% around 266 m (dkr r, c.g., itsl to w dol grains/patches (more contrast)) mostly few %.</p> <p>diss dk gy-b-gr grains at 266.15 m - ambl? sul?</p> <p>bottom 3 m - this zone has small intermittent patches of diss bsn, <few% locly.</p> <p>these bsn-rich section start of BD-zone?</p> <p><u>bsn ap dol-carb</u></p> <p>w-lt gy, r and p. blotchy text, variable mineralogy in gdmass. f.g. to m.g.</p> <p>most of unit w-lt gy dol ap rich patchy with minor itsl material, mass-blotchy.</p> <p>ap 5-25% throughout, most abnt in top half where w-lt gy dol ap patches dominate. also in gdmass. decreases with increase of bsn/REFlc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 287.65 | 302.06 | - | | <p>bsn/REflc diss in gdmass, mostly trace down to 285.87 m with occasional patches up to few %. Below 285.87 m - core is mostly r, bsn up to 5%, dol ap grains here all <1 cm, sub-rnd.</p> <p>fl patches at top, locly 285.25 to 286.20 m, and @287.25 m. also itsl <5% may be converting to REflc, fl also fills small frac/vns locly.</p> <p><u>dolomitic Phyl</u></p> <p>dk gr; mod- strongly fol, homo, f.g.</p> <p>upper and lower ctcs sharp.</p> <p>country rock. top 1.5 to 2 m is c.g., fn/bndg is pseudo-compositional - pale gr bnds vs. bio-rich bnds, not as uniform as below.</p> <p>for rest of interval, more uniform. fn by schistosity. ibd/diss bio <few %.</p> <p>dol spheres/vesicles diss locly, mostly top half and middle, up to few mm, rd, up to 10%.</p> <p>bottom few m more of a smeared text.</p> <p>py xtls diss locly, mostly near dol grains. chl + mica + other gr mineral?</p> | | | | |
| 302.06 | 378.51 | - | | <p><u>ap dol-Carb</u></p> <p>w-lt gy, minor pale tan/y and mod r itsl/gdmass. mottled to blotchy text. f.g. to m.g. BD- zone? locly bsn-enriched.</p> <p>ap throughout unit 5-30%, diss in gdmass.</p> <p>dol grains/clusters diss individually or grouped. typically <1 cm, sub-rnd. may form patches up to several cm (no mtx/itsl material).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>gdmass between grains/clusters mostly pale ol to y- gr (ap-rich) f.g. some sections devoid of dol grains/patches up to 2 m long, not common.</p> <p>bsn/REflc typically f.g., diss, itsl to dol grains but not as component to gdmass (individual grains not decernable). most enriched zones <1% bsn/REflc, located throughout unit. bsn is c.g. and up to 5% from 314.25 to 314.75 m, 324.40 to 325 m (grains up to few m, bright r up to 10% here), 326.50 to 327.50 m, 328.75 to 329.50 m, 330 to 333.05 m, 376.90 m to 358.75 m (40cm zone at bottom up to 10% and c.g.) @357.70 m, 362 to 363 m, 370.25 to 370.80 m. rare patches with v.f.g. bsn in gdmass ~few %?, significant 306.87 to 307.40 m and a bit at 333 m, minor elsewhere.</p> <p>minor to mod late stage Carb vns. these are ol-gy to lt ol, sharp undulating ctcs with host Carb, f.g. some mass, some lam.</p> <p>only minor/rare fl patches throughout interval, typically itsl to dol grains but some free standing patches too, up to 5% locly.</p> <p>@320.25 - ~5 cm pocket with f.g. bio mtx supporting elongated rectangular clsts (30% Carb, <5% bsn/REflc? - bright og-r).</p> <p>@323.25 m - 5 cm wthd pocket 1/2 filled with gouge?/talc?, small fracs around edges (bio-filled).</p> <p>@319.90 m - patch of og (REflc?) and blk minerals (bio).</p> <p>334 to 337.80 m - late stage Carb vn snakes fairly consistently along CA. always <few cm thick. top 1.5 m is frac/lam along its length. also has py and pych?? Or other min? (some blk equant mineral).</p> <p>@344.80 m - 5 cm patch with bio (20-40%) and bsn/REflc? (bright r xtls, 10%) diss m.g. to c.g. fl diss along upper edge.</p> <p>349.40 to 349.65 m - core dominated by w mass opaque dol patches (cc-rich) with minor bio strings meandering through.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | Carb locly wkly-mod bnd, such as at, 347.75= 55' TCA, 362.35m= 50' TCA, 368.50m= 35' TCA bottom ~ 7 m of hole only minor dol patches - med gy, gdmass dominates, mottled text, minor bsn in gdmass locly. EOH | | | | |

Handwritten signature and notes: OGR # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536304.425 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 01, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312131.34 | Rig Type: Discovery I | Date Completed: Oct 04, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.71 m | Note: Imperial to metric rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 314.48 m | change @ ~130 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 5.30 | 28.64 | - | A | <p><u>dol-Carb</u></p> <p>dk gy to dk ol-gy; unit is hetero, but text consistent. altd/overprinted /rehealed. locly brcd (minor). f.g.</p> <p>late stage vns abnt, entire unit likely affected by them. larger vns typically ltr coloured (ol-tan), lam with fl locly. also ctcs not always very sharp. larger vns at 7.5 m, 12 m, 13 m.</p> <p>smaller vns form networks/framework, multiple small vns crossing each other at random orientation. typically ol-gr tan.</p> <p>broken/crushed core locly down to 7.40 m. pebbles mostly Carb, but also other country rock.</p> <p>5.20 to 5.70 m - significant brc. clsts mostly <1 cm, sub-ang, poorly sorted, typically pale ol-gr Carb. mtx is Carb with f.g. REflc?(r), fl within locly.</p> <p>8.35 to 8.75 m - more brc, this better healed. only w dol clsts stick out - few, <2 cm, sub-rnd.</p> <p>fl in this interval mostly itsl <5% locly . locly clusters/patches (+REFlc? locly - br), up to few cm, < 40% locly.</p> <p>around 8 m & 9.25 m - core is dkr - likely diss bio (up to 5%), also dk p-blk f.g. fl?</p> <p>12.27 to 12.60 m - lt gy to pale gr zone, f.g., mass - no x-cut vnlets or overprinting. ap up to 30% mixed in gdmass. also up to 5% bsn/REFlc? locly, mod r min clusters.</p> <p>25.50 m to end - r-br patches & frac - filling, locly - lim/Fe-OH?. increases towards lower ctc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>27.52 to 27.65 m - 23% fl/flc blebs with mod bndg; abnt late stage homo Carb vnlets smearing fl/flc; few fracs.</p> <p>@31.41 m - 4 cm w dol grain, surrounding frac infilled with fl/ flc + chl.</p> <p>24.19 to 51.80 m - common 1-2 mm mustard y-gr min diss + perv; ~6% avg. abnt f.g. fl + flc diss blebs; f.g. speckled; x-cut by 2-5 cm wide late stage v.f.g. Carb vns; smeared mineralization common.</p> <p>35.50 to 39.90 m - common 2-5 cm late stage Carb vns + vnlets ; smeared fl mineralization.</p> <p>38.10 to 41.83 m - abnt f.g. pale met gr amph; mass; few diss f.g. mag; few f.g. fl + flc blebs; few f.g. diss euh py; few thin 0.5 cm qtz vnlet.</p> <p>eqgr cleavage on mins; too small to see 120/60.</p> <p>41.83 to 41.54 m - abnt patchy m.g. fl + m.g. bio; stockwork late stage Carb vnlets; ~20% fl + flc.</p> <p>44.50 to 51.75 m - stockwork; brc; abnt late stage Carb vnlets; smeared fl vnlets, common chl vnlets; few cc + chl vugs; few f.g. fl + flc blebs; few f.g. diss py.</p> <p>@46.10 m - 6 cm long vug infilled with v.f.g. dk gy, soft H<4; met; pbs?</p> <p>lt gr-gy hue from abnt f.g. chl fracs + vnlets.</p> <p>51.75 to 52.88 m - late stage aph Carb vn; common lim/hm fracs with + after late vn; few smeared fl + flc blebs.</p> <p>35.31 to 52.37 m - RA range= 750-1720 CPS, avg RA=1300 CPS, max RA=40.50-41.50 m</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@40.10 m - 0.8% La+Ce+ Pr+Nd Th=133.2 ppm U=0 (portable XRF)</p> <p>@40.80 m - 1.1% La+Ce+Pr+Nd Th=136 ppm U=0 (portable XRF)</p> <p>@44.50 m - 2.1% La+Ce+Pr+Nd Th=131.6 ppm U=10 (portable XRF)</p> <p>stockwork of late stage pale ol gy ~1 cm vns; common f.g. fl + flc blebs between vns.</p> <p>54.60 to 54.85 m - common m.g. blebs, mass.</p> <p>few lim/hm; dull dk r-br fracs; few chl qtz vugs; few cc qtz fl vugs; few f.g. bio vnlets.</p> <p>54.60 to 65.85 m - only trace fl + flc; few f.g. bio vnlets; common lim/hm filled fracs, commonly lim/hm along late stage Carb vns.</p> <p>common deep p fl vnlets; parallel 40° TCA ; x-cut + smeared by late stage 3 cm vns.</p> <p>65.85 m onwards - common f.g. to m.g. fl + flc blebs; common late stage Carb vnlets x-cut fl vnlets.</p> <p>68.00 to 69.50 m - wkly brc; sub-ang Fe dol clsts; few f.g. chl bio vnlets around clsts; few deep p fl vnlets sharply x-cut Carb.</p> <p>52.37 to 69.53 m - RA range = 480-690 CPS avg=580 CPS</p> <p>common m.g. fl + flc bleb patches + smeared vnlets by late stage Carb vnlets.</p> <p>71.48 to 71.76 m - v.f.g. pale ol-gy late stage Carb vn; common m.g. w dol around chl qtz vugs within Carb vn; a second 2 cm chl bio late stage vnlet x-cut, larger Carb vn + dol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v.f.g. pale ol-gy Carb vns x-cut over f.g. diss fl + flc Carb; few dol chl fl py vugs <1 cm wide. common stockwork with homo Carb vnlets; common mm scale vugs + fracs with lim/hm; often lim/hm on edges of late Carb vnlets ex. 82.40 to 83.30 m. few sections aph lt pale ol-gy mass, non-visible mineralization; lim/hm vnlet (one); ex. 78.06 to 78.65 m. few f.g. fl + flc blebs, few f.g. chl bio blebs.</p> <p>69.53 to 86.81 m - RA range 500-810 CPS; avg=700 CPS speckled; aph; fl + flc exist as v.f.g. diss, no blebs; common late stage homo Carb vnlets; few f.g. diss suls (py).</p> <p>90.60 to 90.80 m - common dol rimmed qtz chl fl vugs with w dol tailing vnlets.</p> <p>@91.90 m - 3 cm wide dol qtz vug.</p> <p>93.00 to 93.50 m - common dol qtz chl vugs; m.g. xtl. common v.f.g. mass diss chl + bio.</p> <p>93.54 to 99.03 m - med lt tan-gy dol mtx; gradational colouring.</p> <p>@95.67 m - 4 cm c.g. qtz vn rimmed with f.g. chl.</p> <p>@97.52 m - 4 cm c.g. qtz vnlets with chl vnlets brc surrounding Carb. few deep p fl vnlets, parallel direction ~40° TCA; common m.g. fl + flc blebs; few f.g. euh diss py.</p> <p>@101.37 m - 5 cm between late stage homo Carb vns brc m.g. bio clsts + m.g. 2 mm dol-Carb mtx; 25 cm down hole is Carb vn passing through brc m.g. Carb; thus m.g. bio + dol in late stage Carb vn.</p> <p>102.00 to 102.30 m - few f.g. lim/hm diss itsl grains.</p> <p>@102.30 m - few fl + flc blebs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>86.81 to 104.14 m - RA range=1000-2150 CPS, avg RA=1500 CPS, max=90 to 95 m. common f.g. lim/hm frags and itsl grains similar text as fl; itsl diss blebs; 104.24 to 109.40 m.</p> <p>108.95 to 109.25 m - abnt lim/hm frags; infilled with dol.</p> <p>109.40 to 111.18 m - common vnlets + vugs rimmed with dol; centre of vug commonly qtz or fl or chl; stockwork of dol vnlets. common thin fl infilled frags; parallel ~55° TCA.</p> <p>111.18 to 112.16 m - common m.g. diss fl + flc blebs, few f.g. diss py.</p> <p>113.55 to 114.76 m - common m.g. diss fl + flc blebs; common x-cut vugs rimmed with w dol and cm-scale vnlet tails from the vugs; vugs infilled with fl or qtz or chl. common parallel fl frags x-cut everything.</p> <p>104.14 to 121.83 m - RA range 750-1780 CPS; max avg ~1480 CPS 108-121 m.</p> <p>115.22 to 116.78 m - common m.g. diss fl blebs, few w dol rimmed vugs with fl centre. few w dol rimmed vugs with fl + qtz centre.</p> <p>@114.30 m - 2.8% La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>@120.30 m - 2.2% La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>@121.75 m - 4.6% La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>118.51 to 118.74 m - common 10% f.g. diss fl + flc blebs with fl frags.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>119.15 to 119.45 m - common c.g. rnd w dol suspended grains; few parallel fl fracs x-cut dol; few w dol surrounded by f.g. bio vnlets, also at 120.60 to 120.73 m.</p> <p>120.85 to 123.07 m - 10% common m.g. diss fl + flc blebs + fl fracs. few late stage homo Carb vns 6 cm wide; few c.g. w dol suspended grains. common f.g. fl fracs; parallel ~45° TCA.</p> <p>130.70 to 131.75 m - common lim/hm dull r-br v.f.g.; along fracs + as itsl grains. fl + flc blebs fade in and out; matrix aph pale ol-gy with common homo late stage Carb vns.</p> <p>137.90 to 138.60 m - few w dol rimmed vugs with qtz + fl centres.</p> <p>121.83 to 138.96 m - RA range 800-1350 CPS; avg 1200 CPS.</p> <p>122.00 to 127.69 m - common m.g. diss fl + flc blebs; locly 15% ; common fl fracs, few vugs, few c.g. w dol suspended grains. few f.g. diss blebs; mtx pale ol-gy mass; few late stage homo Carb vnlets; few c.g. w-tan dol grains; common f.g. chl bio vnlets.</p> <p>143.95 to 144.40 m - 12% common m.g. fl diss blebs; few m.g. cr dol grains; few vugs infilled with chl.</p> <p>152.04 to 152.40 m - 20% m.g. fl blebs with fl fracs x-cut. few lim/hm fracs; at 158.41 m; 4 cm lim/hm c.g. bnd.</p> <p>@148.30 m - 1.7% La+Ce+Py+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>@152.40 m - 2.2% La+Ce+Py+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>150.00 to 152.50 m - common fl fracs parallel to each other.</p> <p>154.45 to 158.56 m - brc sub-rnd dol clsts with f.g. dol mtx; all pale ol-gy; common v.f.g. bio vnlets with few f.g. euh py; common fracs; few m.g. w dol itsl grains.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 158.56 | 242.85 | - | | <p>138.96 to 156.25 m - RA range 730-1310 CPS; avg 1100 CPS; max range 147-152 m</p> <p><u>lt gy dol(Mg?)-Carb</u></p> <p>f.g. to m.g.; lt gy dol; wkly bnd; few fracs infilled with either bio, lim/hm, fl,chl; few f.g. py present in fracs or diss throughout core; few-common v.f.g. mustard y-gr diss (mnz?) grains; few late stage homo Carb vnlets; common f.g. wkly bnd fl + flc blebs; overall rock colour lt y-gy with common p blebs; xtl n.</p> <p>trace suls, 3% chl bio, ap, mnz, 12% fl + flc, dol</p> <p>158.56 to 162.91 m - ibd, gradational pale ol-gy Fe-Carb + lt y-gy Mg-Carb; f.g. fl blebs present in both lithos; few fl fracs; few chl + py vugs + few dol rimmed + fl centred vugs; common Carb brc zones, no xenocrusts, common f.g. py among sub-rnd clsts last ~0.5 m. wkly bnd to mass, all gradational bndg, no sharp ctc; few v.f.g. late stage homo Carb vnlets.</p> <p>@174.74 m - 8 cm m.g. fl + flc patch; p centre pk surrounding.</p> <p>178.55 to 179.72 m - v.f.g. diss mnz? patchy.</p> <p>179.72 to 181.45 m - m.g. wkly bnd; patchy bnds.</p> <p>@171.50 m - abnt mnz in dol 2.2% La+Ce+Pr+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>184.10 to 185.40 m - common 12% fl + flc f.g. blebs around lt gy patches of dol.</p> <p>186.28 to 186.42 m, 187.38 to 187.48 m - m.g. fl + flc bnds; mod bndg; slight mustard y-gr hue (from f.g. mnz?)</p> <p>188.20 to 189.54 m - mod bndg f.g. fl + flc and v.f.g. mnz; few f.g. diss euh py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 189.54 to 191.80 m - m.g. w dol grains v. wk bndg, bndg of fl + flc present around dol grains. | | | | |
| | | | | 173.67 to 190.98 m - RA range 340-650 CPS, max ~630-650 CPS at 187.90-190.98 m. mass; 10% f.g. diss fl + flc blebs. | | | | |
| | | | | 192.57 to 193.01 m - common m.g. fl + flc blebs forming around w dol grains; patchy fl + flc; not evenly distributed. few f.g. diss chl blebs + v.f.g. diss py. | | | | |
| | | | | 197.24 to 201.40 m - wk bndg of patchy mins; f.g. lt gy-y-gr mtx; lt gy m.g. dol; mustard y-gr hue of v.f.g. diss mnz? common 12% f.g. fl + flc around dol grains; few late stage smeared mineralization Carb vns; few 2 cm 90% fl + flc bnds; few sub-rnd elongate dol clsts surrounded by f.g. fl + flc. | | | | |
| | | | | 201.40 to 205.09 m - f.g. dol; lt gy-y-gr; abnt v.f.g. mnz?; v. v. few fl + flc blebs; common f.g. chl bio vnlets + blebs; few f.g. py diss; 10 cm bnd mass c.g. 5 mm w dol grains. | | | | |
| | | | | 205.09 to 205.57 m - bio-carbonate; mod fol; f.g. bio + f.g. dol; sharp ctc; few dol vnlets; poor bndg. | | | | |
| | | | | 205.57 to 208.74 m - m.g. w dol; common f.g. chl bio; few f.g. py; abnt disks of core, drill problems. | | | | |
| | | | | 190.98 to 208.47 m - RA range 320-680 CPS, avg 470 CPS, max 198-200 m | | | | |
| | | | | 208.74 to 211.20 m - poor mineralization; lt gy, trace mnz? trace fl + flc; few f.g. euh sul (py) patches; few f.g. bio vnlets. | | | | |
| | | | | 211.20 to 212.57 m - wk bndg; 8% f.g. fl + flc blebs; 1% m.g. diss py; few f.g. chl bio vnlets; 2% lim/hm frags + blebs. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>213.31 to 213.65 m - 40% m.g. fl + flc bnds; few m.g. diss euh py; late stage Carb vn 3 cm wide. common 1 mm diss chl blebs, few c.g. euh py + chl patches 1.5 cm wide.</p> <p>214.55 to 215.00 m - mottled; folding of vns; common m.g. py along vnlets; common m.g. fl + flc vnlets; common lim/hm vnlets.</p> <p>217.52 to 219.20 m - m.g. w dol; common m.g. patchy fl + flc blebs; common fl + flc frac; few f.g. chl bio blebs + chl frac.</p> <p>222.88 to 225.70 m - m.g. w dol; v. wk bndg; common f.g. chl bio vnlets; few 1 cm late stage homo Carb vnlets; few f.g. fl + flc blebs; few dol fl frac.</p> <p>@209.10 m - f.g. fl + flc bleb bnd 2.5% La+Ce+Py+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>208.47 to 225.66 m - RA range=280-410 CPS avg 360 CPS</p> <p>226.74 to 228.99 m - wk bndg; 12 % m.g. to f.g. fl + flc blebs + few 5% mustard f.g. mnz? + f.g. w dol; common fl + py frac. common f.g. bio wk fol; few f.g. to m.g. euh diss py; few qtz vns with m.g. euh py; common 2 cm late stage Carb vns.</p> <p>@213.60 m - f.g. fl + flc bleb bnd 2.7% La+Ce+Py+Nd+Sm+Eu+Gd+Tb+Dy</p> <p>235.70 to 242.85 m - m.g. w dol; common <0.1 mm bio vnlets; common chl fl qtz frac; common wk bnded mnz; few m.g. fl + flc blebs; few diss m.g. euh py.</p> <p>241.03 to 242.85 m - m.g. w dol; mass; few frac with v. few bsn/prs mineralization; few v.f.g. bio frac; few open vugs.</p> <p>225.66 to 242.85 m - RA range 270-520 CPS avg 380 CPS</p> | | | | |
| | | | | EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|------------------------------|
| Property: Eldor Property | Easting (m): 536304.425 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 01, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312131.34 | Rig Type: Discovery I | Date Completed: Oct 04, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.71 m | Note: Imperial to metric rod |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 314.48 m | change @ ~130 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 5.30 | 28.64 | - | A | <p><u>dol-Carb</u></p> <p>dk gy to dk ol-gy; unit is hetero, but text consistent. altd/overprinted /rehealed. locky brcd (minor). f.g.</p> <p>late stage vns abnt, entire unit likely affected by them. larger vns typically ltr coloured (ol-tan), lam with fl locky. also ctcs not always very sharp. larger vns at 7.5 m, 12 m, 13 m.</p> <p>smaller vns form networks/framework, multiple small vns crossing each other at random orientation. typically ol-gr tan.</p> <p>broken/crushed core locky down to 7.40 m. pebbles mostly Carb, but also other country rock.</p> <p>5.20 to 5.70 m - significant brc. clsts mostly <1 cm, sub-ang, poorly sorted, typically pale ol-gr Carb. mtx is Carb with f.g. REflc?(r), fl within locky.</p> <p>8.35 to 8.75 m - more brc, this better healed. only w dol clsts stick out - few, <2 cm, sub-rnd.</p> <p>fl in this interval mostly itsl <5% locky . locky clusters/patches (+REFlc? locky - br), up to few cm, < 40% locky.</p> <p>around 8 m & 9.25 m - core is dkr - likely diss bio (up to 5%), also dk p-blk f.g. fl?</p> <p>12.27 to 12.60 m - lt gy to pale gr zone, f.g., mass - no x-cut vnlets or overprinting. ap up to 30% mixed in gdmass. also up to 5% bsn/REFlc? locky, mod r min clusters.</p> <p>25.50 m to end - r-br patches & frac - filling, locky - lim/Fe-OH?. increases towards lower ctc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 28.64 | 182.29 | - | A | <p>interval 700 to 1750 CPS, increases down. avg 1000 to 1400 CPS.</p> <p><u>dol-Carb:</u></p> <p>lt gy-gr. patchy text with brc zones common. locly mottled text. hetero. f.g.</p> <p>gradational upper ctc, end of late stage vn, mod frags.</p> <p>first 50 cm pale ol vs. pale gr patches. mass, frags at top breaking up/off-setting patches slightly. this grades into brc zone, form 29.20 m to 30 m. mtx similar to Carb surrounding brc zone (lt gy to pale gr), clsts of dol-Carb, bio (blk, soft) & ap/ap-rich Carb (come up to 10% ap, some up to 50%). all clsts < few cm, ang to sub-ang, poorly sorted. mod-abnt frags in brc zones.</p> <p>34.15 to 35.50 m - more brc zones, similar litho/character. all ctcs with these brc zones are gradational, many frags (typically filled) into surrounding Carb, bio clsts stop, Carb clsts tighten together.</p> <p>30.50 to 31.40 m - some small late stage vns x-cut & fl patches locly. rock appears brcd locly but healed. alterations decreased at ends.</p> <p>31.40 to 33.10 m - Carb is f.g., mass, minor fl-rich mottled patches locly. alteration & brc increase down. below this, rock is v. fracd patches of varying litho combined (some pistachio gr, some pk), grades into brc.</p> <p>below 35.50 m - Carb characterized by ltr gr (lt ol-gy-gr) late stage vns overprinting altd & brcd Carb (more b) with fl patches locly.</p> <p>40 to 42.90 m - fl frags/vnlets locly. qtz pockets locly.</p> <p>43.95 to 47.60 m - brc. top ctc is sharp. most clsts are scrambled Carb (as above), <2 cm.</p> <p>mtx f.g. homo, ol-gr, locly w (cc- rich?).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>clsts tighten up below 45 m, looks less like brc. 45.50 to 46.50 m, fl common in mtx (trace f.g. pale p & dk p itsl pockets locly). lower ctc is gradational.</p> <p>47.55 to 48 m - "clsts" tight together, not brcd. fairly homo. itsl tan-pk carbonate running along CA.</p> <p>below 48 m, back to hetero Carb, not as scrambled as previously, fewer vns x-cut. minor itsl fl.</p> <p>around 51.35 m - core wthd/pockmaked with r filling - lim/Fe-OH... with diss py & dk gy sul.</p> <p>below 51.50 m - Carb is more homo, locly mottled text. only minor late stage vns/ patches locly. rare patches of diss fl, <few % locly. minor fracs locly, sul infilling.</p> <p>@52.50 m, og-r itsl - more lim/FeOH? more cohesive than usual...</p> <p>56.50 to 58 m - abnt wthd fracs & pockets, chalky/crumbly, w. some pockets have cc still within.</p> <p>58 to 58.55 m - itsl fl common <few %, many vns x-cut - tan-p, mass to lam. overprinted Carb is mass & homo to mottled further down.</p> <p>58.55 to 59.25 m - Carb very homo/unifrom, wkly bnd.</p> <p>59.62 to 60.67 m - again very homo, med gy, with evenly diss fl throughout <5%.</p> <p>@60.70 m and 61 m - are several itsl clusters of dol, w.</p> <p>@64 m - several dk p fl patches scattered, >70% fl within these. up to few cm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>below 63 m, late stage vns common, but not overly dominant mostly <few cm. tan to pale ol, typically lam, ctcs usually sharp.</p> <p>more itsl dol clusters locky from 68.50 to 72.50 m, may have sul within & @72.50m a qtz pod.</p> <p>itsl fl patches increase from 68 to 70.25 m, up to 40% locky. may be converted to REflc locky.</p> <p>71.50 to 81.20 m - gdmass fairly homo, lt med gy, mass, with pale gr-r min, diss (not ap...) - f.g. clusters, & b-gr ambl diss locky trace. minor late stage vns through here, solitary, common with fl (+/- bsn/REflc). below 74 m, these no longer common, but bio <5% evenly diss, 5%, & in small frags.</p> <p>below 81.20 m - reduced - to - no bio diss, now mainly f.g. fl, small elongated/needle clusters & larger clusters grouped together, these impose fabric in Carb. fl up to 40% locky, dk p to blk. gdmass more gr.</p> <p>further down, below 87 m, locky small gr patches, itsl - ambl.</p> <p>"smeared/fo!" fl-rich section wanes by ~90 m, although minor patches continue down to ~95.50 m along with common (but ever - decreasing) pockets & frags/vnlets of xtled fl. (<10% locky).</p> <p>93.67 to 93.88 m - up to 1.5 cm wide py vn/pocket running along CA, with minor pk qtz & few clusters of chl? (dk gr, soft - may be serp/ambl?)</p> <p>95.50 to 97.15m and 114.75 to 116.80 m - gy to pale gr Carb broken up by bright w, translucent dol (cc-rich, minor ap locky) patches. these fractured/broken up (almost clsts-supported brc in places) with itsl bio & locky pockets up to few cm with bio surrounding qtz pod. dol "clsts/frags" mostly >1.5 cm, ang. locky gy-gr Carb patches within these sections, much smoother ctcs than those with bio/fracs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>more of similar dol patches at 162 m & from 163,20 to 163.75 m. itsl fl, lot locky & 3 cm bnd at 163.31 m that is 90° TCA & straight edges (not broken up by dol patches, b-gr, mottled text) this section again followed by small w itsl dol strings/patches, down to 164.85 m. these have ambl, bio pockets within locky.</p> <p>97.35 to 100.15 m - small w itsl/dol strings/patches common, <<1 cm thick, locky with qtz or bio pockets at centre. Carb here homo, ol-gy-gr mottled text. locky trace pale br to r min? v. difficult to spot (everything is f.g. & blends together).</p> <p>below 102.72 m - fl again fairly common, itsl & minor clusters, mostly <5%, dk p to blk. not entirely continous - zones up to 1 m devoid of fl locky. fl may be converting to REflc locky - br. mottled text.</p> <p>@108.55 m - euh acicular ambl clusters along frac/core break, <6 mm. more diss b-gr ambl locky elsewhere, up to 10%, continue down to end.</p> <p>106.90 to 107.45 m - pale ol-br vn/patch overprinting Carb, 1/2 of core, trace diss REflc within ? - r.</p> <p>@112.90 m - ~20 cm long qtz vn, <3 cm wide, w dol around edges.</p> <p>109.60 to 113.40 m - increase in hetero, more patchy, increase late stage vns locky & locky brcd & brcd zones that look overprinted, healed.</p> <p>@118.75 m - 20 cm long mod bnd zone, overprinting Carb, 40° CA.</p> <p>122.77 to 123.10 m - brc zone. clsts mostly w dol, sub-rnd. mtx similar to surrounding Carb, lt gy to lt gr, with fl-rich locky.</p> <p>below 119 m - text more patchy & scrambled; f.g. homo, mass Carb overprinting hetero, fl-rich smeared Carb.</p> <p>123.80 to 124.50 m - abnt itsl fl (up to 30%) tan-gr f.g. patches/bnds overprinting locky. lower down, fl mostly converted to REflc - r.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 182.29 | 243.16 | - | A/B-T | <p>also fl-rich zones from 127.60 to 128.40 m & 151.20 to 151.60 m, up to 40% locly. maybe be partial converted to REflc (r).</p> <p>144.20 to 150.05 m - qtz x-cut locly, up to 1.5 cm wide. may have ambl, bio along edges or diss within.</p> <p>160.33 to 161.80 m - faint brc text locly, ctcs not discernable as mafix same as surrounding Carb and clsts (typically dol-Carb (w-y) sub-rnd to sub-ang, & minor bio, ambl grains/clusters.) v. small (<1 cm) & few.</p> <p>163.60 to 164.11 m - small bio fracs common, x-cut dol patches (at top) & homo gr Carb. repeats at ~165.10 m, also diss ambl here - dk gr, <5%.</p> <p>166 m to end - Carb more homo, fewer vns & fl mottled text.</p> <p>1 cm wide qtz vn at 173.90 m.</p> <p>py/sul, clusters/bnds lcly may be along edges with late stage vns.</p> <p>@175.60 m, 176.20 m & 177.60 m - small itsl dol bnds/patches weave through core, these have (vug-filling?. fl typically layered - shows growth...) fl + bio/chl? within.</p> <p>top to 143 m =1200 to 1900 CPS. 143 m to end = 700 to 1100 CPS.</p> <p>v. gradational lower ct, text/character/mineralogy change v. little, decrease in CPS.</p> <p><u>dol-Carb</u></p> <p>pale ol-gy-gr, y & p-r. mottled text, fairly homo, mass. f.g.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>top couple m is more scrambled near ctc, homogenizes moving away - gradational.</p> <p>many small fracs well healed, locally filled with fl, ambl, other? ambl increases down, fairly common in this unit (<few% locally, diss).</p> <p>bsn/REflc patches not as abundant as fl, but noticeable increase over prev. unit - stand-alone patches, not necessarily associated with fl. r-og-br, locally up to few %, mostly f.g. but also some mm-scale xtls.</p> <p>fl mostly diss in patches but also forms larger clusters & minor fracs/ vnlets locally.</p> <p>occasional w-pale-y dol clusters scattered throughout.</p> <p>@185.85 m - 1 cm wide Qtz vn with trace diss py & gal.</p> <p>@187.40 m - ~7 mm euhedral grain/clasts with f.g.-m.g. bsn/REflc? - r, also small fl grains within. this situated in ol-gr bnd/vn? x-cut the Carb.</p> <p>192.40 to 196.50 m & 201.75 to 206.25 m - Carb becomes more homo/uniform, mass - gdmass dominates although still mottled text common. reduced fl - not continuous restricted to patches.</p> <p>196.50 to 201.75m - Carb similar to further up in the interval - sections with common - abundant fl, pale-y dol & diss ambl and str mottled text.</p> <p>206.25 m to end - Carb fairly hetero, fl clusters/patches common (<30% locally) as is diss ambl. (up to 10% locally). mottled text prevails. w-pale-y dol clusters grouped locally.</p> <p>220.80 to 223.20 m - increased b-gr ambl, esp. clusters & fracs. 20 cm zone at 222.50 m with ~30%, fl clusters & diss py also here.</p> <p>227.05 to 227.45 m - large mass fl vn running along CA, sharp & smooth ctc. fl is med to dk p, >80%. also within vn are py clusters (<5%) & y dol (post-date fl? more continuous undulatory ctc, minor fl frags within dol near ctc.) patch near end.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 243.16 | 314.48 | - | B | <p>231 to 234.10 m - large late stage vn meanders along CA. this is rarely full core. It is lt ol-gy-gr, f.g., mostly mass but some lam (sans fl) & minor brcn locly. top is gradational, small patches leading up to it.</p> <p>235 m to end - increase in cr-tan dol patches/clusters. dol patches fairly evenly spaced, typically < few cm, <20%. str mottled text continues to end although more subdued last couple m. @241.60 m, 50 cm mass, uniform zone, gy with f.g. diss bio.</p> <p>a few late stage vns near bottom, tan-ol, lam.</p> <p>interval 300 to 600 CPS, decreases down.</p> <p>gradational lower ctc. CPS reamins fairly constant, reduced fl.</p> <p><u>dol-Carb</u></p> <p>lt gy, tan-gr-b. unit fairly homo, mass, few - no late stage vns. f.g. to m.g.</p> <p>gradational upper ctc. colour doesn't change much, mottled text of prev. interval becomes more uniform here. occasional fl clusters near top ctc, v. rare below 249 m. CPS remain about the same until ~270 m.</p> <p>top to ~248 m - small fracs scattered in Carb, mostly isolated but locly mod, either fl - filled or with f.g. gdmass.</p> <p>246 to 247 m - these accumulate & form small brc zones, clsts & matrix similar composition.</p> <p>@255 m - 6 cm patches/ diss sul - dk gy, equent, met, <20%.</p> <p>occasional bio-filled pockets & small facs from 249 to 255.50 m, <2 cm.</p> <p>@256.15 m - ~5 mm wide frac filled with b ambl.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>sul-rich (py + others) clusters common from 257 to 257.65 m, itsl/pocket - filling. ambl clusters locly around these? - dk gr.</p> <p>260.60 to 282.50 m - ibd sections of mottled text carb, similar to prev. but more subdued. y dol blotches & patches of diss fl seen here (fl esp. 263.30 to 267.50 m, up to 25% locly). diss ambl also common, up to 30% in small patches locly, esp 266 to 267.20 m.</p> <p>279.75 to 280.10 m - bsn/REflc patches, starts as f.g. in gdmass (so <1%), then coarser grained patches up to 5% locly. more bsn/REflc patches down to ~290.20 m, just isolated or in gdmass, trace. bsn/REflc-rich section from 290.20 to 294.90m - ibd "BD-ZONE"? bsn is f.g. in gdmass (trace) & coarser grained diss (<5%) & continuous through this section.</p> <p>284.40 to 285.10 m - Carb is dkr gy - increase in f.g. diss sul? lower ctc sharp. through minor fracrs infilled with bio & og min at bigger pockets (REflc?).</p> <p>286 to 286.20 m - w dol patches, bio & py clusters locally within.</p> <p>290 to 291 m & 293.20 to 293.80 m - Carb appears raked - diss bsn & itsl gy mins (sul?) combined give elongated "bnding" along CA. 291.60 to 293 m - Carb is w-y, mass with mod small fracrs. bsn and fl in pockets. 294.30 to 295 m - minor-mod fracrs infilled with bio, chl?, trace sul. these culminate in larger pockets around 294.60 m.</p> <p>@295.90 m - ~6 cm fl patch, fl grains diss ~10%. also diss py here.</p> <p>296 m to end - trace diss fl, bsn,py, ambl? v. locly (rare!).</p> <p>307 to 307.50 m - w dol clusters/patches locly, typically have increased bsn, fl diss within.</p> <p>307.40 to 311 m - fracrs & pockets with bio filling. @309.55 m - pocket up to 10 cm with gy-br filling - country rock? much harder. this has <5% bio + bsn diss within.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | bottom few m, carb is more y, mass, fl clusters @312 m & 313.85 m. end of hole is broken/rubbly core, rnd pebbles, all same Carb. top to ~270 m = 300-500 CPS gradually decreases down. 270 to end = 250-350 CPS decreases down. EOH | | | | |

Handwritten signature and date: 06/23

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|---|
| Property: Eldor Property | Easting (m): 536163.47 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 06, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312235.26 | Rig Type: Discovery I | Date Completed: Oct 08, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: Imperial to metric rod change @ ~125 m |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 364.97 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.65 | 229.83 | - | A | <p><u>dol-Carb:</u></p> <p>It ol-gy-gr. hetero, locky w/ky bnd (short intervals), interval appears overprinted/remobilized + rehealed. f.g.</p> <p>hole starts in fairly competent rock, only minor broken core. r-br Fe-OH/lim? w/td surfaces locky.</p> <p>down to ~28 m - tan-pale y dol blotches/patches diss, decrease down (only concentrated patches locky). mottled text associated with dol blotches.</p> <p>fl patches minor for top 55 m, locky mostly <5 cm zones, itsl Carb. < 10% also rare fl vnlets/fracs (around 9.50 m, 45 to 50 m).</p> <p>below 55 m - fl more common/penetrative, mostly < 5% locky.</p> <p>forms clusters/patches up to few cm (these up to 70% locky, itsl Carb) & diss with gdmass.</p> <p>locky brcd sections through interval; typically < 1 m, may have fl in mtx, these brc zones overprinted/healed.</p> <p>uniform/homo sections, esp. around 22 to 42 m, <1 m long minor fl evenly diss, f.g. eqgr. may have bndg. ap in gdmass, <10% locky.</p> <p>47.50 to 68.50 m - lim/FeOH common, along broken surfaces & patches up to few cm wide (52.25 to 53.50 m).</p> <p>late stage vns not common, as most of interval likely remelted/overprinted by late stage event.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>vns typically <1 cm wide, larger vn at 53.25 m, cuts along CA, lam with minor fl, ends on FeOH/lim patch.</p> <p>below 54 m - rock seems more highly disturbed, locly large fl patches/pockets itsl to Carb.</p> <p>76.50 to 82 m - increased bndg, locly due to lam vn. (at 82 m)</p> <p>msmt at 77 m = 20° TCA</p> <p>78 to 87 m - tan-pale y dol clusters locly (increase down) in Carb & fl pockets (pervasive) mostly <1 cm.</p> <p>97 to 102 m - core ltr gy, more homo/uniform, no fl patches. (fl evenly diss, grains <5 mm, <<5%).</p> <p>vns x-cut locly (typically similar colour or tan, not common).</p> <p>97.55 to 102.25 m - ap diss in gdmass 10-15% (locly up to 20%).</p> <p>below this ap patches intermittent for a few m (<15%).</p> <p>108 to 121 m - fl clusters common, typically zones <10 cm long, fl itsl/in pockets, <20% locly.</p> <p>122.20 to 122.85 m - core tan-gr, f.g. trace diss bio?, suls.</p> <p>126 to 148.15 m - Carb more disturbed again, itsl fl clusters/pockets common (up to 30% locly, also minor fl-filled fracs, fl locly converting to REflc? (br-r, v.f.g.) tan dol clusters locly. late stage Carb vns locly, increase down, mostly <few cm, may be lam (+/- fl, typically wavy/sinuuous) or massive.</p> <p>148.15 to 152.85 m - Carb lt gy, locly patchy text - w-pale tan dol + ap? patches, overall rock more homo/uniform, f.g. diss sul?, gr-br specs in mtx. reduced fl through this section.</p> <p>@152.85 m - sharp ctc with fl patch/bnd, v. undulatory. other side of fl is gradational ctc with Carb, this side more mottled, atld, less homo, increased fl (itsl, sporadic clusters) this text fairly constansnt for >15 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>163.50 to 174 m - core split/broken along CA in several places for up to 1.3 m.</p> <p>@162 m - 20 cm zone of abnt fl clusters (<few cm, up to 30%), itsl to pale y dol patches. text above & below this zone is more homo/uniform, with small pale y dol patches diss, common & minor itsl fl.</p> <p>@175.65 m & 178.40 m - are 30 cm long sul-rich zones. these are dk gy-blk, diss py < 10%, rest is f.g., mag up to 10% in first zone. both cuts by tan vns <1 cm wide. lower zone terminates with fl bnd/patch (mostly converted to REflc).</p> <p>~167 to 189 m - dominant text lt gy-w Carb, massive fairly homo/uniform, f.g to m.g. with penetrative itsl fl (small specs but commonly 5-10%, dk p to blk). through this section zones with increased fl (larger patches) with patchy pale y dol common.</p> <p>~189 m to end - more hetero</p> <p>@190 m - couple solid fl pockets, up to few cm, dk p-blk.</p> <p>down to 201 m - a few bio-sul bnds/patches loclly variable mineralogy - mostly py dominant with few % bio, this reversed for bnd at 194.40 m. also scattered are individual bio clusters, <2 cm, mostly from 193 to 200 m. fl clusters/pockets <2 cm also scattered commonly through here, look similar to the bio clusters.</p> <p>185.40 to 185.80 m & 201.25 to 201.90 m - mtx-enriched in sul (+bio?) - this is diss f.g. may also be more concentrated patches loclly. these are darker gy-br sections & have sharp ctcs with the more uniform Carb surrounding.</p> <p>208 to 225 m - fl clusters/patches increase, all itsl pockets dk p to blk, commonly grouped with pale y diss dol clusters.</p> <p>minor bio clusters also scattered loclly.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 229.83 | 264.09 | - | A/B-T | <p>212.50 to end - fl ltr p, no big clusters - all itsl/ in mtx, locky up to 20% (esp. around 213 m, 215.20 m, 222.25 to 223 m) mtx/Carb mostly uniform, lt gy. fl bnd @214.85 m.</p> <p>217.50 to 225 m - bndg/ vns common. bnds typically solitary, <few cm, may be undulatory, typically lam (+/- fl within), finer grained than surrounding Carb. locky have diss sul (py) <5%.</p> <p>interval ~700 CPS, 48 to 70 m up to 1200 CPS, locky up to 900 CPS, & down to 300 CPS (rare 81 to 116 m ~800 CPS).</p> <p>dol-Carb: lt gy-pale y, p (fl) diss & itsl patches locky. hetero text varies from mottled (dominant) to patchy to fracd & brc. mostly f.g. locky m.g.</p> <p>fl content fairly consistent for most of interval, sharp decrease bottom ~5 m it is scattered distribution, mostly itsl to Carb (small grains/clusters & seams). 241.50 to 261.50 m - fl forms larger patches/pockets, these are not common, up to few cm. concentrated in patchy text sections.</p> <p>late stage Carb vns common most of interval, pale ol-tan, can be mass or lam, finer grained than most rock; locky up to 25 cm, mostly <few cm.</p> <p>239 to 239.40 m - c.g. py cluster common with f.g. sul, bio? itsl bnds/patches.</p> <p>232 to 232.50 m - network of fracs infilled with sul? - dk gy.</p> <p>last m has qtz filled fracs/pockets locky (minor), & minor brcn (disguised, clsts & mtx similar), tan-pale y dol grains scattered.</p> <p>interval 400 to 700 CPS.</p> | | | | |
| 264.09 | 364.97 | - | B | <p>dol-Carb</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>lt gy, pale y. unit locly brcd, dominantly fairly homo faint mottled text. mass with wkly bnd sections locly.</p> <p>top to 270 m, rock dominated by fracd sections with brc zones. fracs filled with bio, sul, chl (locly). brc zones are widened fracs with Carb frags broken off from surrounding Carb (@268.70 m, this includes late stage vn). intact Carb (not fracd sections) is mass, uniform, f.g. eqgr, trace py diss, fl, qtz filled pockets/vnlets common.</p> <p>qtz pockets/vnlets continue to end, decrease in abundance down.</p> <p>270 to 282.50 m - Carb more homo, pale y & w. faint mottled text with patchy sections locly. minor fl clusters/patches, itsl to Carb/in pockets. few brc zones, mtx & clsts similar colour, mineralogy, <20 cm long.</p> <p>282.50 to 289.50 m - continuous brc, mtx varies in composition - bio - chl (or other soft gr min) - fl dol-Carb. fl in mtx not common.</p> <p>clsts consistently dol-Carb, sub-ang to ang, up to few cm across. py cubes diss locly in brc. brc zones continue fairly commonly down to 297 m, rare below this. mtx strictly dol-Carb (zones do not stand out).</p> <p>290 to 292 m - common fracs/pockets with chl (other soft gr min?) infilling (locly + fl).</p> <p>below 290 m - (down to 315.65) Carb is again homo/uniform (away from brc zones), pale y & w, f.g. to m.g. eqgr, mass.</p> <p>patches of itsl fl locly (fl <5% locly). these are spaced fairly consistently, but very minor fl overall.</p> <p>304.50 to 306.50 m - sul-rich (esp. py) bnds & mtx locly.</p> <p>305.50 to 306.50 m - brc has bio + py mtx. pockets of rusty r lim/FeOH min also common through here.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>313.85 to 315.65 m - mottled text, common gr patches - 1 cm, not c.g. mineralization pockets, these are f.g., prob <40% -ambl? also nearby are fl clusters & py clusters. most abnt around 315 m.</p> <p>315.65 to end - Carb more glossy - slightly coarser grained and more translucent? homo, mottled text dominates, wkly-mod bnded. no brc.</p> <p>gy-gr bnds/patches locly - ambl? f.g. diss sul? particular dominant from 315.65 to 330.75 m, 337.50 to 340.50 m, 344 to 346 m, 359 m to end. 357 to 360 m, f.g. gy material more like itsl webbing to dol than bnds. also bio frags abnt around 359.50 m. 360 to 361.50 m - rock is gy (reduced y dol)</p> <p>dol is pale y-w transparent.</p> <p>fl clusters/bnds common locly, esp. from 315.65 to 327.50 m & few minor spots further down. up to 20% locly.</p> <p>ap scattered throughout <5% locly, small itsl clusters.</p> <p>@348 m - 5 cm blk bnd - diss bio + abnt sul?, minor fl.</p> <p>interval 300-400 CPS.</p> <p>bndg msmt @320 m = 55 to 60° TCA, 336 m = 35° TCA, 339 m = 25° TCA, 360.25 m = 50° TCA</p> <p>EOH</p> | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536192.86 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 11, 2010 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312130.92 | Rig Type: Discovery I | Date Completed: Oct 14, 2010 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.66 m | Note: Imperial to metric rod switch |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 358.70 m | @ 121.70 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: A. Peter- Rennich | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 2.86 | 120.02 | | | <p><u>perv fl/flc F-Carb</u></p> <p>f.g. pale ol-gy to med gy; abnt vns; parallel vns to stockwork to mass; two types fl + flc 1 - frac + vug filling fl/flc commonly associated with silicates qtz + chl + py; 2 - diss mass mm scale blebs commonly associated with mustrad y-gr f.g. dim min; abnt late stage homo Carb vn + vnlets x-cut everything + smearing mineralization; trace f.g. ap; commonly 2>1; very few ap (trace ap, trace sul py, trace chl, 15% mustard yellow, 20% fl/flc, 65% Fe-dol).</p> <p>2.18 to 20.26 m - range 850-1980 CPS; avg 1650 CPS.</p> <p>9.20 to 9.83 m - mottled text; fl + flc blebby Carb has late stage homo Carb vn x-cut with abnt bio vnlets; mineralization is smeared; few c.g. dol with mm scale fl + flc pod; RA= 1980 CPS 100% Th = 513.4 ppm (portable XRF).</p> <p>23.40 m - c.g. fl + flc blebs 7-5 cm wide with common late stage Carb vns.</p> <p>27.75 to 28.65 m - mass c.g. with dol; 5% itsl ap with weak bndg, pkl text; few fg fl- flc blebs.</p> <p>31.22 to 37.90m - common parallel fracs infilled with f.g. fl + flc.</p> <p>20.26 to 37.66 m - range 900-1970 CPS, avg RA = 1700 CPS 100% Th = 559.9 ppm (portable XRF).</p> <p>30.15 to 30.25 m - 60% c.g. fl + flc blebs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 37.75 to 38.10 m - late stage homo Carb vn; smearing mineralization; ~20% f.g. fl + flc in vn. | | | | |
| | | | | 41.98 to 41.20 m - abnt m.g. fl + flc blebs + fracs infilled with fl and flc; 1.5cm f.g. to c.g. euh py bnd. | | | | |
| | | | | 46.09 m - 2 cm wide c.g. qtz pod with c.g. fl bleb. | | | | |
| | | | | 48.46 m - 2 cm wide; withd hm; surrounded by late stage Carb vns. | | | | |
| | | | | 49.24 m - 3 cm wide c.g. fl bleb. | | | | |
| | | | | 51.95 to 54.10 m - m.g. perv fl + flc blebs; abnt late stage homo Carb vn; common fl + flc infilled. | | | | |
| | | | | 37.66 to 55.78 m - RA range 1200-2400 CPS avg 1900 CPS; max 2400 CPS @ 47m. | | | | |
| | | | | 57.50 to 58.90 m - abnt ~20% m.g. fl + flc blebs; weak bndg to mass + patches common late stage Carb vns. | | | | |
| | | | | 60.74 to 61.50 m - common dk p fl + flc infilled fracs, common late stage Carb. | | | | |
| | | | | 63.10 to 63.30 m - late stage homo Carb vn 2 cm wide; common mustard y-gr f.g. diss min, 10 cm section of patchy f.g. ap ~8%. | | | | |
| | | | | 55.18 to 72.56 m - range 900-1810 CPS avg 1400 CPS; spot high @65.50 m 1810 CPS 100% Th 500.5 ppm (portable XRF). | | | | |
| | | | | 66.08 to 7 m (sp?) - f.g. pale ol-gy, weak bndg - mass; m.g. fl + flc blebs; common late stage homo Carb vns, few fl + flc fracs, common f.g. diss mustard y-gr min. | | | | |
| | | | | 71.48 to 71.53 m - f.g. late stage Carb vns with w m.g. itsl dol. | | | | |
| | | | | 73.30 to 73.60 m - late stage homo Carb vns with smeared mineralization. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 73.90 to 74.08m - m.g. patchy fl + flc blebs. | | | | |
| | | | | 81.51 to 81.61 m - smeared fl + flc bleb/patches with brc pale ol-gy elongate clsts + with c.g. euh py. | | | | |
| | | | | 82.01 to 82.80 m - c.g. fl + flc blebs with x-cut, late stage homo vnlets + vns. | | | | |
| | | | | 87.40 to 88.11 m - c.g. fl + flc blebs with x-cut, late stage homo vnlets + vns with few m.g. w dol itsl grains. | | | | |
| | | | | 72.56 to 78.33 m - range 1000-1600 CPS; avg= 1250 CPS; at max 84.60 m Th= 349.5 ppm U= 3.7 ppm (portable XRF). | | | | |
| | | | | @82 m - 20 cm long ap bnd; sharp ctc, 10% ap. | | | | |
| | | | | @84.50 m - 50 cm long section ap bnds; ~10% locly. | | | | |
| | | | | @89.68 m - 15 cm long ap bnd; sharp ctc; 15% ap locally. | | | | |
| | | | | 91.72 to 91.98 m - m.g. dol grains intsl in f.g. pale ol-gy F-Carb; common f.g. bio + fl/flc frags. | | | | |
| | | | | 92.50 to 92.56 m - sub-rnd elongate ap bio clast + ap dol clst; edges rounded by surrounding F-Carb; diss f.g. ap concentration. | | | | |
| | | | | 95.56 to 95.85 m - abnt smeared fl + flc mineralization from late stage Carb vns. (common ap patches, locally 8% @~92 m to 95 m). | | | | |
| | | | | 98.11 to 99.02 m - m.g. dol, few f.g. sp; eqgr text; few f.g. diss py. | | | | |
| | | | | 99.02 to 102 m - common - abnt (~20%) m.g. fl + flc blebs with late stage Carb vns cutting through. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 102.48 | 294.40 | - | B | <p>103.80 to 103.80 m - abnt (~60%) m.g. fl + flc blebs.</p> <p>78.33 to 107.09 m - range = 1200 to 2800 CPS, avg RA= 1800 CPS; max @75 m= Th= 719.6 ppm (portable XRF).</p> <p>110.04 to 110.10 m - m.g. w dol itsl.</p> <p>110.70 to 111.00 m - m.g. fl + flc patches.</p> <p>112.80 to 112.86 m - withd hm frags; common suls, pitted withing.</p> <p>112.75 to 120 m - common fl + flc frags; semi parallel frags.</p> <p>117.34 to 117.55 m - m.g. w itsl dol grains with f.g. pale ol-gy mtx (common 10-30 cm ap bnds; locly 15% @ 120 to 121.10 m).</p> <p>112.06 to 120.49 m - mtx is poor mineralization; common chl bio frags; common f.g. diss mustard y-gr min.</p> <p>107.09 to 121.20 m - range 660-1320 CPS; avg= 950 CPS; max @116m = Th= 361.8 ppm (portable XRF).</p> <p><u>Carb</u></p> <p>f.g. gy-y gr; mass to weakly bnded; common f.g. chl bio frags; abnt diss f.g. fl + flc blebs; few f.g. diss euh py (+ other suls); few thin fl + flc frags ~7% ap; few m.g. w dol patches; abnt f.g. diss mustard y-gr grains; few smeared mineralization vns, few fl filled vugs; few ~20 cm long f.g. pale ol-gy gradational bnds with abnt m.g. fl blebs with almost no ap (trace suls 5% ap, 8% mustard y-gr min (mnz?), 8% fl+ flc, 79% dol).</p> <p>124.50 to 125.02 m - abnt late stage Carb vns, abnt c.g. fl + flc patches; smeared mineralization (common patches + bnds aph ap; locly 15%; @~123 m to 139 m).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 125.20 to 129.30 m - common parallel fl frags 70' TCA. | | | | |
| | | | | 125.63 m - 3 cm f.g. diss py + hm sph. | | | | |
| | | | | 128.75 (3 cm wide); 129.15 (10 cm long); 129.54 (3 cm wide); 131.31 (7 cm wide); 134.25 (5 cm wide) - smeared fl + flc c.g. to m.g. blebs + vns. | | | | |
| | | | | 132.80 m - 2 cm vug infilled with fl + flc. f.g. 5% ap flow bnds along CA visible only under UV light as w. v.f.g. diss fl+ flc blebs ~4%. | | | | |
| | | | | 121.70 to 133.70 m - RA range 430-250 CPS avg 370 CPS. | | | | |
| | | | | 139.20 to 139.50 m - smeared fl in late stage Carb vnlet; fl concentration rimming vnlet. | | | | |
| | | | | 139.80 to 139.86 m - eqgr, tan dol, few 1 mm chl, few v.f.g. diss py. few chl bio f.g. frags. | | | | |
| | | | | 140.13 to 140.50 m - 8% f.g. diss fl + flc and few fl frags. | | | | |
| | | | | 141.03 to 141.40 m - c.g. to m.g. fl + flc blebs ~20%; smeared with few m.g. p-w dol. | | | | |
| | | | | 141.89 to 142.60 m - common f.g. diss fl + flc blebs; common with m.g. w-p dol. | | | | |
| | | | | 142.70 to 14.75 m - common chl bio frags. | | | | |
| | | | | 142.89 to 143.20 m - ~18% fl + flc; abnt f.g. fl + flc blebs smeared by late stage Carb vn. common v.f.g. diss mustard y-gr min vn mtx (mnz?). | | | | |
| | | | | @144.40 m - 4 cm late stage f.g. pale ol-gy Carb vn with fol v.f.g. bio, x-cut gy-y-gr + w-tan mass dol with v. few f.g. fl + flc blebs. common patches of diss f.g. fl + flc Carb x-cut by (mnz?) rich (mustard y-gr) Carb vns. | | | | |
| | | | | 145.91 to 146.30 m - mass; common m.g. w-p dol grains; abnt f.g. diss fl + flc blebs; trace diss euh f.g. py. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>146.95 to 147.20 m - common hm frags.</p> <p>149.08 to 149.20 m - m.g. patchy fl + flc blebs concentrated ~35%; common 50° TCA parallel late stage Carb vnlets. 20 cm ap patches + mass no bndg ~148.50 m. 10 cm ap bnd ~15% ap; ~152.50 m.</p> <p>150.20 m - frac with pale gr talc; chp. py; f.g.</p> <p>151.35 to 152.80 m - common f.g. diss fl + flc blebs; few cc- fl vugs, 12% fl + flc.</p> <p>152.80 to 153.33 m - abnt smeared fl + flc blebs with mod bndg.</p> <p>153.32 to 153.42 m - 90% c.g. fl + flc blebs; few f.g. diss euh py; brc by surrounding Carb. smeared fl + flc blebs by no mineralized Carb vns.</p> <p>155.17 to 156.65 m - ~15% f.g. diss fl + flc blebs; abnt (mnz?); few diss py; mass.</p> <p>139.24 to 156.49 m - range RA= 310 to 519 CPS avg RA= 420 CPS; max @153.50 m.</p> <p>156.65 to 159.47 m - mod flow bndg few ~5% m.g. w-p dol; common v.f.g mustard y-gr (mnz?) min; abnt f.g. fl + flc diss blebs; few f.g. diss py.</p> <p>158.80 to 158.92 m - c.g. fl + flc patch ~85%; common f.g. diss py.</p> <p>159.47 to 169.00 m - common mm scale generally parallel fl + flc frags; few f.g. chl bio frags randomly oriented. common y hue from v.f.g. mustard y-gr min (mnz?).</p> <p>166.85 to 166.90 m - brc Carb angular clsts; with chl + bio + fl between clasts common f.g. py diss.</p> <p>162.93 to 169.96 m - common-abnt f.g. chl bio frags; randomly oriented.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>167.80 to 169 m - abnt f.g. chl bio randomly oriented fracs with brc ang Carb mtx clsts.</p> <p>167.95 to 172.40 m - common f.g. pale ol-gy late stage Carb vns ~6 cm wide.</p> <p>156.49 to 173.53 m - RA range 270 to 680 CPS; avg 490 CPS, max @166.50 m.</p> <p>191.30 to 197.10 m - 8% f.g. fl + flc diss blebs; mustard y-gr hue (mnz?) few m.g. w- p dol; low mineralization; mass v.f.g. dol; few 3 cm wide Carb vns. common mass blebs + patches ap; locally 20%; 180.20 to 181.40 m.</p> <p>197.10 to 210.16 m - ~30% f.g. chl bio vnlets brc Carb elongate TCA; few py chl bio pods + patches of vnlets; few m.g. fl + flc patches surrounded by chl bio fracs; few late stage Carb vns ~3 cm wide few f.g. diss euh py + mag. common v.f.g., aph ap blebs + patches; gradual ctc; ~200.40 m to 207.50 m.</p> <p>191.10 to 208.46 m - RA random 320 to 650 CPS. avg RA = 490 CPS; max @202.40 m.</p> <p>208.21 to 210.17 m - abnt f.g. thin chl bio vnlets; 2 x 11 cm chl bio concentrated bnds with few diss py; 5 cm brc section with chl bio ang clasts + m.g. euh py.</p> <p>211.17 to 215.32 m - common patches of m.g. diss fl + flc + m.g. w-pk dol; wk bndg; few fl + flc parallel fracs; few late stage Carb vns.</p> <p>215.32 to 220.02 m - common pale ol-gy late stage Carb vns; mottled few f.g. chl bio vnlets; mod bndg.</p> <p>221.18 to 223.40 m - common diss m.g. to f.g. fl + flc blebs; few m.g. w-pk dol; common late stage vn + f.g. diss py; few fl + flc fracs, late stage vns parallel TCA ~3 cm.</p> <p>223.40 m - on wards; abnt f.g. pale ol-gy late stage Carb vns; few f.g. py + fl lining late stage vnlets.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>208.46 to 225.38 m - RA range = 370-650 CPS; avg RA= 495 CPS; max @223 m. common v.f.g. diss mustard y-gr eqgr mnz? grains. speckled f.g. fl + flc and chl bio blebs Carb; mass; few diss f.g. euh py (+ other sulfides); few f.g. chl bio frags; common v.f.g. homo late stage pale ol-gy Carb vns x-cut and smearing speckled Carb; few v.f.g. mag associated with py.</p> <p>227.28 to 228.05 m - few f.g. wkly bnded fl + flc blebs; few smeared fl + flc blebs. 225 to 232 m - common diss ap patches; gradational undulating etc.</p> <p>230.60 to 230.65 m - few itsl m.g. w-pk dol grains x-cut by late stage Carb vnlet.</p> <p>228.80 to 229.5 m - smeared v.f.g. fl + flc blebs by late stage homo Carb vns; ~5% fl + flc; common open vugs.</p> <p>232.45 to 32.62 m - few itsl m.g. w-pk dol grains.</p> <p>233.49 to 233.69 m - locly 10% f.g. smeared fl + flc blebs; egg plant p + pale pk-p flc mins.</p> <p>234.22 to 234.47 m - common 1/2 mm open vugs; speckled pitted text.</p> <p>236.02 to 236.15 m - common m.g. fl + flc smeared blebs with late stage homo Carb vns; few f.g. euh py. @~236 m - 10 cm 70% ap bnd, sharp etc.</p> <p>236.55 to 236.65 m - 96% m.g. fl + flc bnd.</p> <p>237.09 to 237.11 m - 98% m.g. fl + flc bnd. common v.f.g. mustard y-gr mnz? diss grains.</p> <p>239.54 to 240.71 m - f.g. pale ol-gy homo Carb vns; few m.g. smeared fl + flc blebs; common 1/2 mm open vugs; trace vugs with f.g. euh py.</p> <p>240.96 to 241.01 m, 240.48 to 240.59 m - c.g. fl + flc blebs with associated open vugs; speckled pitted vugs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 241.70 to 242.36 m - speckled f.g. fl + flc blebs; smeared m.g. fl + flc blebs. | | | | |
| | | | | 225.38 to 242.63 m - RA range 380 to 650 CPS; avg RA= 510; max Ra @231 m. v. weakly bnded gy-y-gr Carb; few f.g. fl + flc diss blebs; common v.f.g. diss mustard y-gr mnz?; few mm scale fl + flc vugs. | | | | |
| | | | | 245.04 to 245.82 m - calcareous chl bio schist; str fol; dk gr; 1 mm itsl cc grains; 3 cm wide qtz vn at bottom ctc; 45' TCA 4% cc; few chl bio vnlets along ctc. common 10-15 cm f.g. diss fl + flc bnds; common m.g. fl patches. | | | | |
| | | | | 247.60 to 247.70 m - mod bndg m.g. w-pk dol, f.g. fl + flc. | | | | |
| | | | | 248.60 to 248.70 m, 250 m to 250.20 m - brk Carb clsts; m.g. fl + flc vugs. | | | | |
| | | | | 249.35 to 249.90 m, 252.60 to 253.05 m - mod bndg; f.g. diss blebs; mod smeared mineralization. | | | | |
| | | | | 252.20 to 252.30 m - c.g. fl + flc blebs ang + have itsl dol. | | | | |
| | | | | 259.20 to 259.30 m - brk Carb ang clsts with f.g. chl bio vnlets, few f.g. euh py. | | | | |
| | | | | 242.63 to 248.23 m - RA range 280 to 460 CPS; avg RA = 370 CPS, max @252.50 m. amount of fl + flc is increased by ~5% and is less patchy, more f.g. diss + speckled. 250.50 to 251.50 m - abnt ap in bnd; undulating sharp ctc. | | | | |
| | | | | 259.94 to 261.88 m - f.g. to m.g. diss speckled fl + flc; mass; 10% fl + flc. smeared mineralization + common pale ol-gy vnlets ~1 cm wide. few itsl m.g. w-pk dol (carbonate). | | | | |
| | | | | 263.99 to 265.70 m - abnt mass speckled m.g. fl + flc ~15%; few late stage homo vnlets. abnt mustard y-gr v.f.g. aph diss min (mnz?); mass not bnded. | | | | |
| | | | | 269.45 to 271.75 m - common m.g. diss fl + flc itsl with w-pk carbonate (dol?); few 1 cm late stage homo Carb vnlets. 274.78 to 282.45m - more common f.g. bio frags + vnlets; randomly oriented. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>259.88 to 265.70 m - RA range= 270 to 580 CPS; avg= 520 CPS; max range @268.80 to 271.75 m, 540 to 580 CPS. @265.60 m f.g. diss fl + flc blebs 1.6% La + Oe + Pr + Nd + Sm + Eu + Gd + Tb + Dy. @265.58; v.f.g late stage homo Carb vnlet 2.3% La + Ce + Pr + Nd + Sm + Eu + Gd + Tb + Dy.</p> <p>279.10 to 282.42 m; abnt f.g. chl frags + vnlets; greasy pale gr chl H<3; concentration of elongated chl frags @279.75 to 279.95 m. common to abnt f.g. mustard y-gr mnz? increasingly patchy + some bndg rather than previous even diss. mineralization increasing in grain size.</p> <p>277.99 to 279.10 m - few r-br v.f.g. min; elongate patches; few fl frags. few f.g. euh py associated with frags.</p> <p>282.95 to 283.33 m - pale ol-gy aph late stage Carb vn; few v. fine fl frags.</p> <p>283.33 to 284.27m - few f.g. diss r-br mm; few f.g. diss fl + flc trace f.g. euh diss py; few m.g. w-pk min.</p> <p>284.27 to 287.24 m - wk-mod bndg common m.g. fl + flc blebs; abnt v.f.g. mustard y-gr min; few m.g. w-pk min (bnded + diss), few f.g. chl vnlets; trace diss f.g. py; mottled text in alternating sections.</p> <p>287.24 to 293.42 m - less fl + flc mineralization; common f.g. chl bio frags + vnlets.</p> <p>290.50 to 290.95 m - common f.g. diss r-br min; @290.95 m - m.g. patch; associated with chl frags + vnlets. common 20 cm wide homo late stage Carb vns; poor visible mineralization. 291.40 to 291.51 m - m.g. patchy w-pk min. 289.95 to 290.20 m - few m.g. patchy fl + flc; itsl dol + few f.g. py. abnt f.g. mustard y-br mnz?; mottled.</p> <p>@292.07 m, 292.35 m, 293.00 to 293.10 m - f.g. diss r-br min associated with chl vnlets.</p> <p>277.33 to 294.82 m - RA range 370-590 CPS. avg = 470 CPS; max 282 to 283 m 540-590 CPS.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 294.40 | 358.70 | - | | <p><u>mnz? mg-dol-Carb</u></p> <p>f.g. aph, lt gy; mass to v. weakly bnded; few f.g. diss fl + flc; abnt v.f.g. diss mustard y-gr min (mnz?); few cc fl chl mm to cm scale vugs; patches of mineralization are few; few f.g. bio vnlets; few m.g. w-pk dol patches; few fracs; few f.g. diss euh py + mag.</p> <p>trace suls py (+ other mag); 1% chl, 3% fl + flc, 3% bio, 5% mnz?, 88% dol.</p> <p>294.82 to 312.03 m - RA range= 195 to 315 CPS avg= 230 CPS; max @310.80 m.</p> <p>296.50 m = 2.6% La + Ce + Pr + Nd.</p> <p>294.40 to 294.84 m - few <0.8 cm vugs infilled with chl or fl; @297.80 m vug with chl + fl + lt tan-br speckled min.</p> <p>298.85 to 298.95 m - m.g. w dol patch; few fl vugs 0.5 cm wide. abnt v.f.g. mustard y-gr mnz? in lt gy dol mtx.</p> <p>301.15 to 301.52 m - few m.g. w dol patches with fl vugs; few py bio vnlets.</p> <p>309 to 312.35 m - common diss f.g. fl + flc blebs ~3%; m.g. w dol; common f.g. bio vnlets with py; few fracs; wk bndg; few chl bio mag, py f.g. diss; abnt diss v.f.g. mnz?. @305 m - abnt mnz f.g. diss 2.4% La + Ce + Pr + Nd + Sm + Eu + Gd + Td + Dy.</p> <p>312.35 to 319.44 m - m.g. lt gy dol; mod bndg; common f.g. bio vnlets + diss patches ~2-10 cm wide; few f.g. diss py; v. few f + flc f.g. blebs; few bio fracs. @310 m- abnt f.g. fl + flc 2.9% La + Ce + Pr + Nd + Sm + Eu + Gd + Td + Dy.</p> <p>322.53 to 327.73 m - aph; med gy; v.f.g. mustard y-gr diss mnz? few v.f.g. diss py; few late stage v.f.g. carb vnlets.</p> <p>312.03 to 329.30 m - RA range = 280-328 CPS; avg 300 CPS.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@314.60 m - 1.7% La + Ce + Pr + Nd.</p> <p>327.73 to 329.78 m - m.g. dol; mass. weak bnding, lt gy; mustard y-gr hue, few ~5% locly fl + flc blebs; common f.g. bio vnlets.</p> <p>329.32 to 331.70 m - few f.g. fl + flc blebs + smeared mineralization; common v.f.g. mnz? wk bnds; common f.g. bio vnlets same direction as bndg.</p> <p>341.78 to 342.10 m - common f.g. chl bio vnlets; few f.g. py associated with vnlets. wk bndg @336m = 44° TCA.</p> <p>329.30 to 346.56 m - RA range 180 to 220 CPS; avg RA = 200 CPS. lower mineralization; lt gy dol; few f.g. diss mnz? mustard y-gr min; more mineralization + text change @349.86 m.</p> <p>349.86 to 358.70 m - eqgr text; dol grains ~1.5 mm; mass to v. wk bndg; common f.g. bio frags; common chl bio; few diss f.g. py; few vugs; few frags 10-30 cm long.</p> <p>348.15 to 349.86 m - common frags; f.g. chl bio 90% of frac; 8% dull r-br min bsn/prs?; 2% f.g. euh py; few itsl f.g. bsn/prs? along wk bndg.</p> <p>349.86 to 350.60 m - 20 cm long frac; f.g. chl bio 80% in frac; f.g. euh py 20% in frac; surrounding mtx med gy eqgr, wkly bnded.</p> <p>351.90 to 352.20 m - common mm to 3 cm wide vugs; few 2 mm pk cc grains, few dull r-br bsn/prs? f.g. mins 1 mm; abnt chl bio rimmed vugs; m.g. po + py patches 3 cm wide.</p> <p>353.26 to 354.50 m - common f.g. py + po diss and along frags; ~15%.</p> <p>354.00 to 354.35 m - frac + vugs; 85% f.g. chl bio; 1 mm pk - w cc 8%; 4% 1 mm bsn/prs?; 3% f.g. py + po.</p> <p>355.23 to 358.70 m - abnt chl bio frags m.g. dol mtx, 1 mm dol, few f.g. bio patches, very weak bndg + fol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 346.56 to 358.70 m - RA range = 180 to 260 CPS, avg RA = 210 CPS. EOH | | | | |

OGG # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536305.50 | Drill Company: Cartwright Drilling Ltd. | Date Started: Mar 05, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312238.09 | Rig Type: CDI 500 | Date Completed: Apr 17, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: see first cell in description |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 593.75 m | column |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | |
|----------|--------|-----------|------------------|---|-----------|-------------------|---------------|-----|------|-----|
| | | | | | | | DEPTH (m) | CPS | | |
| 0.00 | 7.20 | OVb | | <p><i>Initial drilling ceased on March 11, 2011, casing left in, drilling resumed on April 14, 2011 and was completed on April 17th, 2011. Drillers blocks out by 27 cm for 131.06 m to 137.16 m; therefore m marks off. For the intervals: 132 m to 133 m: 1.27 m = (true core length), 135 m to 136 m = 72 cm (true core length). Drilling started on march 5 to march 11, resumed april 14.</i></p> <p>Ovb 6.87 m to 7.01 m - diss f.g. fl + irregular f.g. fl vnlets.</p> | | | | | | |
| 7.20 | 14.22 | dol-Carb | A | <p>dol-Carb colour: 10Y 6/2, N5 mineralogy: dol: 97% v.f.g. anh; fl: 3% v.f.g. anh; py: trace m.g. suh; ap: trace f.g. suh; bsn/prs: trace v.f.g. anh; sph: trace f.g. anh; gal?: trace, m.g. suh; qtz: trace, f.g. anh.</p> <p>7.50 m diss perv f.g. fl with 10R 5/4 (brick r) bsn/prs.</p> <p>7.20 m to 14.22 m - brc mtx-sup, clsts f.g. to c.g., ang to sub-rnd, some sections appear to have several stages of brc/healing, common x-cut vns other f.g. dol-Carb or qtz+fl.</p> <p>9.55 m to 9.66 m - 10 YR 6/6 (honey br) f.g. anh sph in qtz vn.</p> <p>7.20 m to 7.70 m - bldr frags mixed with dol-Carb, dol-Carb contains rare c.g. anh dol grains.</p> <p>7.20 m to 11.82 m - Oy alt 5YR 5/6, 0-20% frac-rel.</p> | | 7.20 m to 14.22 m | 7.50 | 487 | 9.60 | 457 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 14.22 | 37.85 | dol-Carb | | <p>12.71 m to 12.74 m - diss perv f.g. fl with v.f.g. 10R 5/4 bsn/prs.</p> <p><u>dol-Carb</u></p> <p>colour: 5GY 6/1, 5P 2/2</p> <p>mineralogy: dol: 93% v.f.g., anh; fl 7% v.f.g., anh; bsn/prs: trace, v.f.g., anh; qtz: trace, f.g. anh; py: trace, f.g., suh ; chl: trace, v.f.g. anh.</p> | 14.22 m ctc grad increase fl + text change. | | | |
| | | | | 16.87 m to 17.02 m - f.g. fl accompanied by v.f.g. anh 5R 7/4 (lt pk) flc? | 16.95 m - fol fl bnds 30° TCA | | | |
| | | | | 24.94 m - aggregate of f.g. flc? rimmed by fl+ dol. | | 22.00 | 600 | |
| | | | | 14.22 m to 37.85 m - wk, irregular bndg small sections of mtx-sup hydro brc typically f.g. to m.g. ang to sub-rnd clsts, zones of colloform/crustiform bndg typically layers of qtz + fl + dol-Carb. | 22.17 m - fol bndg 30° TCA | 31.00 | 800 | |
| | | | | 14.22 m to 37.85 m - common x-cut dol-Carb dykes, notable occurrence at 22.84 m -> pod of c.g. anh dol x-cut by small dol-Carb dykelet. also common throughout interval are zones hydrothermally infilled vugs/vns. typically f.g. to m.g. suh to euh dol rim + qtz core usually accompanied by fl and occasionally 5R 7/4 flc? rhodochrosite? | 24.70 m - fol bndg 25° TCA | 38.00 | 575 | |
| | | | | 28.05 m - fol bndg 20° TCA | | | | |
| 37.85 | 73.13 | dol-Carb | | <p><u>dol-Carb</u></p> <p>colour: 10Y 6/2, 10Y 4/2</p> <p>Mineralogy: dol: 95% v.f.g., anh; fl 4%, v.f.g., anh; qtz: trace, f.g. anh; bsn/prs: trace, v.f.g., anh; chl: trace, f.g. anh; py: trace, f.g. suh</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 37.85 m to 38.10 m - hydro brc. | | | | |
| | | | | 37.85 to 38.10 m - mtx-sup hydrothermal brc, f.g. to c.g. clsts, ang to sub-rnd, constituents are dominantly 10Y 8/2 dol. | 37.85 m - ctc grad ↓ fl | | | |
| | | | | 38.10 to 39.52 m - mottled/wkly fol. | | | | |
| | | | | 39.52 m to 39.66 m - mtx-sup hydro brc analogous to that of 37.85 m to 38.10 m. | 38.16 m - fol ctsc bnd 42° | | | |
| | | | | 37.85 m to 73.13 m - excluding brc zones, core shows wk fol, mottled appearance, but min segregations appear to align at roughly 35° TCA, x-cut dol-Carb dykes, fl has spread: DC distribution local flux between 3-10%. | | | 43.00 | 608 |
| | | | | 39.66 m to 49.78 m - mottled/wkly fol | | | | |
| | | | | 42.70 m to 44.08 m - diss perv fl accompanied by 5YR 6/4 v.f.g flc? | | | | |
| | | | | 45.21 m - diss f.g. flc. | | | | |
| | | | | 49.50 m - f.g. to c.g. anh to suh py. | | | | |
| | | | | 49.78 to 49.92 m - dol-Carb ctsc, rare f.g. to m.g. dol + fl in v.v.f.g. dol-Carb mtx. | 49.78 m - fol 30° TCA | | | |
| | | | | 49.92 m to 53.10 m - mottled wkly fol. | | | | |
| | | | | 50.40 to 50.82 m - v.f.g. diss fl + 5YR 6-4 fl carb + v. rare (5Y 8/1) (cr) dol. | | | | |
| | | | | 53.10 to 56.13 m - mtx-sup hydro brc, with frequent x-cut v.f.g. dol-Carb + qtz/fl vnlets, clsts typically rnd, f.g. to m.g. | | | 53.00 | 716 |
| | | | | 55.24 m - anh m.g. chl. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|--------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 56.06 m - anh c.g. fl isolate. | | | | |
| | | | | 56.13 m to 56.87 m - ctsc; m.g. anh dol grains in v.f.g. dol-Carb mtx; v.c.g. dol-Carb clst + dol rimmed qtz filled vugs. | | | | |
| | | | | 56.87 m to 57.73 m - mtx-sup hydro brc clsts f.g. to m.g. sub-rnd dol, rare qtz clsts. | | | 56.00 | 597 |
| | | | | 57.73 m to 59.43 m - mtx-supported hydro brc f.g. to c.g. clsts, commonly ang, zone x-cut by fl stockwork, qtz apparently absent from fl stockwork. | | | | |
| | | | | 59.43 m to 64.02 m - decrease in fl - perv 2-3 %. | | | 59.00 | 543 |
| | | | | 59.43 m to 65.36 - hydro brc. | | | | |
| | | | | 61.14 to 64.00 m - core diam is 3 cm. | | | | |
| | | | | 64.02 m to 66.90 m - 85% core <10 cm. | | | 62.00 | 476 |
| | | | | 64.63 m to 65.36 m - 7% v.f.g. perv frac-rel fl. | | | | |
| | | | | 65.36 m to 71.56 m - common x-cut f.g. dol-Carb dublets, 5Y 7/2. wkly fol hydro brc. | | | 65.00 | 428 |
| | | | | 71.56 m to 72.90 m - hydro brc- zones of dol-Carb + sequential void fill (small crustification bnds, zones of cockade brc + comb structure) - f.g. to m.g. suh to euh dol rim, qtz core ± f.g. fl, 10R 8/2 (gy-pk) v.f.g. to f.g. anh rhodocrosite? and v.f.g. to f.g. 10YR 6/6 (honey br) sph. | | | 72.00 | 298 |
| 73.13 | 85.48 | dol-Carb | | <u>dol-Carb</u> | | | 75.50 | 376 |
| | | | | colour: 10Y 6/2, 5P 2/2 | | 73.13 m - ctc grad ↑ fl, text change | 77.00 | 384 |
| | | | | mineralogy: dol: 92%, v.f.g. anh; fl: 8% f.g. anh; qtz: trace, f.g. anh; py: trace, f.g. suh; bsn/prs: trace v.f.g. anh; rhodochrosite?: trace, v.f.g. anh; amph: trace, f.g. anh; fl dol-Carb. | | | 80.00 | 368 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|--------------------------|----------------------|---------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 85.48 | 94.57 | dol-Carb | | 73.13 m to 86.57 m - hydrothermal brc, abnt late stage x-cut dykelets, at least two generations → early 10Y 5/4 (ol-br) v.v.f.g. dol-Carb, later 10YR 6/2 (pale y-br) v.v.f.g. dol-Carb, clusters of diss m.g. 5P 2/2 (deep p) fl + v.f.g. vug/void fill fl, mtx-sup dol-Carb clsts f.g. to rare c.g., ang to rnd, scale of late-stage x-cut dykelets typically 5-10 cm, frequency + avg size increases with depth. variable orientation of x-cut dykelets range from 5°-35° TCA. | ctc 85.48 m grad ↓ fl | | 84.00 | 385 |
| | | | | 73.13 m to 86.57 m - diss fl, hydro brc. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: 5Y 7/2, (5Y 5/2) | | | | |
| | | | | mineralogy: dol: 97% v.f.g. anh; fl: 3% f.g. anh; qtz: trace, f.g. anh; py: trace, f.g. anh; amph: trace f.g. anh; bsn/prs: trace, v.f.g. anh | | | | |
| 85.61 m - 5R 5/4 (brick r) f.g. REflc? in qtz vn. | 87.00 | 382 | | | | | | |
| 85.48 m to 94.57 m - hydro brc, wk fol, abnt late stage x-cut dykelets, 10Y 5/4 (ol-br) v.v.f.g. dol-Carb, patches of diss v.f.g. fl occasionally comprising subtle bnds roughly oriented 40° TCA, majority of interval is v.f.g. dol-Carb mtx, sparse qtz vns throughout. variable x-cut dykelets range from 5°-40° | | | | | | | | |
| 88.04 to 88.38 m - c.g. elongate ang dol-Carb clsts, typically ~2 cm in length in v.f.g. dol-Carb mtx 14 cm section of cockcade brc with dol-Carb clsts encased in (N8) (v. lt gy) v.f.g. dol, rare qtz core in larger infilled voids, spare v.f.g. fl. | | | 90.00 | 447 | | | | |
| 90.66 m to 92.31 m - v.f.g. 10R 4/6 (r-br) diss bsn/prs occuring with fl. | | | | | | | | |
| 90.12 m to 90.47 m - 5% diss v.f.g. fl; 90.66 m to 91.13 m - 5% diss v.f.g. fl; 93.29 m to 93.77 m - vug fill v.f.g. fl; 93.00 m to 94.57 m - large → up to ~50 cm along CA late stage 5Y 6/4 (dusky y) x-cut dol-Carb dykelets. | | | | | 93.00 | 453 | | |
| 91.47 m - v.f.g. 10R 4/6 (r-br) diss bsn/prs localized at 1-2%. | 96.00 | 427 | | | | | | |
| 94.57 | | | 97.72 | dol-Carb | | <u>fl - dol-Carb</u> | ctc @94.57 m grad ↑ fl | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|--------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 97.72 | 108.83 | dol-Carb | | <p>colour: 5Y 7/2, 5P 2/2</p> <p>mineralogy: dol: 95%, f.g.; fl: 5%, v.f.g. anh; bsn: trace, v.f.g. anh; qtz: trace, f.g. anh; py: trace f.g. anh; amph: trace, v.f.g. anh.</p> <p>96.78 m - v.f.g. 10R 4/6 (r-br) diss bsn/prs.</p> <p>94.57 m to 97.72 m - hydro brc. v.f.g. (5Y 7/2) (y-gy) mtx-sup rare clsts of (N8) (v. lt gy) typically sub-rnd, f.g. to m.g. dol-Carb clsts, zones with re-brcd text, x-cut late stage dykelets, two generations: early 10Y 8/2 (y-gr) v.f.g. dol-Carb, later → 5GY 5/2 (dusky y-gr) v.f.g. dol-Carb, both x-cut by f.g. qtz ± v.f.g. fl vnlets; overall mottled appearance.</p> <p>95.59 m to 95.81 m - v.f.g. (5Y 7/2) dol-Carb with sparse dol rimmed, qtz core pockets.</p> <p>95.96 m to 97.16 m - abnt x-cut late stage dykelets, many fracd/brcd by subsequent stage dykelets or qtz + fl vnlets.</p> <p>97.11 m to 97.16 m - 5GY 5/2 v.f.g. dol-Carb dykelet.</p> <p><u>dol-Carb</u></p> <p>colour: 5Y 7/2, (5Y 5/2)</p> <p>mineralogy: dol: 97%, v.f.g.; fl: 3% v.f.g.; py: trace, f.g. suh; bsn/prs: trace, v.f.g. anh; qtz: trace, v.f.g. anh</p> <p>98.60 to 100.09 m - diss 10R 4/6 (r-br) v.f.g. bsn/prs up to ~1%.</p> <p>97.72 m to 108.83 m - wkly fol, mottled, abnt late stage x-cut (5Y 5/2) v.f.g. dol-Carb dykelets, most align to wk 20°-30° TCA fol, avg length ~10 cm, wk fol typically defined by layers of v.f.g. fl and dol-Carb. dol-Carb dykelets commonly oriented between 20°-30° TCA, rare 5°-10° TCA.</p> | <p>ctc at 94.57 m grad ↑ fl, text change</p> <p>95.81 m - fol 47° TCA</p> <p>97.16 m - dykelet 66° TCA,</p> | | | |
| | | | | | | | | <p>ctc at 97.72 m ↓ fl</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 99.46 m to 99.80 m - frequent (5Y 5/2) v.f.g. dol-Carb dykelets. | | | 99.00 | 658 |
| | | | | 100.81 m to 101.06 m - open vugs, typically less than ~1 mm in size, rare v.v.f.g encrusting 10R 4/6 min bsn/prs? lim? *sid? | | | | |
| | | | | 101.15 m to 101.23 m - dol-Carb dykelet, (5Y 5/2) v.f.g. | 101.15 m dol-Carb dykelet, 25° TCA | | 101.00 | 518 |
| | | | | 102.24 m to 102.50 m - dol-Carb dykelet, (5Y 5/2) v.f.g. rare f.g. qtz. | | | | |
| | | | | 102.90 m - 10R 4/6 min on frac surface, v.f.g., occurs with sparse suh f.g. suh f.g. py - sid? | | | | |
| | | | | 105.00 m - (5Y 5/2) v.f.g. dol-Carb dykelet. | | | 104.00 | 569 |
| | | | | 105.41 m to 106.33 m - open vugs throughout interval, vug walls encrusted by 10YR 7/4 v.f.g. anh cc, large frac at 105.90 m with vitreous 5R 4/6 coating, f.g. euh py cubes throughout → lim? jasper? sid? | | | | |
| | | | | ~106 m - c.g. dol-Carb brc → brittle frac zone. | | | | |
| | | | | 106.37 m - crustiform band, v.f.g. → 10YR 7/4 cc core, dol-Carb, fl rim. | 106.07 m - joint 19° TCA | | 107.00 | 593 |
| | | | | 107.40 to 107.46 m, 107.80 to 108.18 m - open vugs with 10Y 8/2 v.f.g. cc coating on walls - vugs may represent former pockets of cc xtls. | | | | |
| 108.83 | 116.71 | dol-Carb | | <u>fl dol-Carb</u> colour: 5Y 7/2, 5GY 4/1 mineralogy: dol: 95% f.g., anh; fl: 5% v.f.g. anh; py: trace, f.g., anh; bsn/prs: trace, v.f.g., anh; qtz: trace, f.g., anh; chl: trace, v.v.f.g., anh | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 109.79 m to 111.86 m - diss 10R 6/2 v.f.g. REflc? large patch @109.90 m and 111.84 m. | | | 110.00 | 743 |
| | | | | 108.83 m to 116.71 m - mtx-sup hydrothermal brc, v.f.g. 10 GY 5/2 dol-Carb mtx, clsts are f.g. to m.g. (N7) dol-Carb, mottled appearance abnt late stage x-cut v.f.g. (5Y 5/2) dol-Carb dykelets, wk fol throughout interval. | ctc at 108.83 m grad text change | 108.13 m to 116.71 m - hydro | | |
| | | | | 111.13 m to 111.20 m - (5Y 5/2) v.f.g. dol-Carb dykelet with rare f.g. qtz. | | | | |
| | | | | 112.75 m to 112.89 m - 25% v.f.g. fl. | | | | |
| | | | | 113.83 m to 114.20 m - late stage v.f.g. 10YR 4/2 dol-Carb dykelet, f.g. euh py cubes occasionally along margin. | | | 113.00 | 540 |
| 116.71 | 122.33 | dol-Carb | | <u>fl dol-Carb</u> colour: (5Y 5/2), 5P 2/2 mineralogy: dol: 92%, v.f.g. anh; fl: 8%, v.f.g., anh; bsn/prs: trace, v.f.g., anh; qtz: trace, f.g. anh; py: trace, f.g. suh | | | | |
| | | | | 116.71 m to 122.33 m - mtx-sup hydro brc v.f.g. 10GY 5/2 dol-Carb mtx, f.g. to c.g. (N7) sub-rnd dol-Carb clsts, common late stage v.f.g. (5Y 5/2) dol-Carb dykelets, wk fol - bnds of dol-Carb + v.f.g. fl, overall mottled appearance. | ctc at 116.71 m grad ↑ fl, text change | | | |
| | | | | 116.50 m - (5Y 5/2) v.f.g. dol-Carb dykelet accompanied by f.g. to m.g. suh py - may be F-Carb dykelet. | | | 116.00 | 681 |
| | | | | 119.94 m - 5R 6/6 v.f.g. rhodochrosite? *sid on frac surface + v.f.g. (N5) gal. fol - 30°-40° TCA | | | 119.00 | 706 |
| 122.33 | 133.51 | dol-Carb | | <u>dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: (5Y 5/2), 10Y 4/2</p> <p>mineralogy: dol: 97%, v.f.g., anh; fl: 3% v.f.g., anh; py: trace, f.g. suh; qtz: trace, f.g. anh; chl: trace, v.f.g., anh; bsn/prs: trace, v.f.g. anh; amph: trace, v.f.g. suh</p> <p>122.33 m to 129.42 m - mtx-sup hydro brc, v.f.g. 10GY 5/2 dol-Carb mtx, 10Y 6/2 ang f.g. to c.g. dol-Carb clst + 5P 2/2 ang f.g. to c.g. fl, common late stage x-cut v.f.g. (5Y 5/2) dol-Carb dykelets.</p> <p>123.31 m - (5Y 5/2) v.f.g. dol-Carb dykelet preceding ~6 cm patch of dol-Carb clsts in f.g. fl mtx.</p> <p>123.41 m to 129.42 m - zones of cockade brc (~124 m) typically dol-Carb clsts encased by f.g. euh dol rim advancing toward qtz core in larger vugs, otherwise dol-Carb structures between suspended clsts, alternatively cockade core may not be qtz but v.f.g. 5G 5/2 min commonly occurring with suh to euh f.g. py + v.f.g. suh gal, mineral could be v.f.g. sph. rare patches of dol-Carb clsts in f.g. fl mtx.</p> <p>125.14 m - frags near vertical TCA - ~1 cm displacement of dol-Carb dykelet.</p> <p>125.57 m - dol-Carb dykelet, (5Y 5/2), v.f.g., frequency of small f.g. qtz ± v.f.g. vnlets increased with depth.</p> <p>128.78 m - f.g. suls along brc sutures, met (N6) (med lt gy) sul visible, molybdenite?</p> <p>128.97 m to 129.42 m - c.g. to v.g. (5Y 8/1) (y-gy) suh dol vn, small x-cut f.g. qtz vnlets throughout, sparse x-cut large ~ 1-2 cm qtz vns ± v.f.g. fl + v.f.g. 5GY 2/1 suls?</p> <p>131.23 m to 132.29 m - core dominantly v.f.g. 10GY 5/2 dol-Carb, few late stage x-cut dol-Carb dykelets.</p> <p>132.29 m to 133.51 m - zones of sutured brc (132.42 m) gradual increase in fl.</p> <p>129.42 to 131.23 m - dol-Carb - minor interval</p> | ctc at 122.33 m - grad ↓ fl | | | |
| | | | | | | | 123.00 | 680 |
| | | | | | | | 126.00 | 819 |
| | | | | | | | 129.00 | 620 |
| | | | | | | | 132.00 | 757 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | colour: 10Y 6/2, N8 | | | | |
| | | | | mineralogy: dol: 98% f.g. anh; qtz: 1% f.g. anh; fl: 1% v.f.g. anh; bsn/prs: trace v.f.g. anh; py: trace, f.g. suh. | | | | |
| | | | | 129.42 m to 131.23 m - mtx-sup hydro brc, v.f.g. 10Y 6/2 dol-Carb mtx, f.g. to rare c.g. N8, ang to sub-ang dol clsts, rare f.g. (N7) qtz pockets, common x-cut late stage v.f.g. (5Y 5/2) dykelets at smaller angles TCA. ~131.00 m - brc rafts between late stage dol-Carb dykelet, largest dykelet exceeds 50 cm at 20° TCA. | ctc at 129.42 m sharp irregular ctc | | | |
| 133.51 | 140.57 | dol-Carb | | <u>dol-Carb</u> | ctc at 131.23 m sharp 20° TCA | | 131.00 | 757 |
| | | | | colour: 5Y 7/2, (5Y 5/2) | | | 135.00 | 729 |
| | | | | mineralogy: dol: 96%, v.f.g., anh; fl: 4%, v.f.g., anh; py: trace, f.g., suh; qtz: trace, f.g. anh | | | | |
| | | | | 133.51 m to 140.57 m - mtx-sup hydrothermal brc, (5Y 7/2) v.f.g. dol-Carb mtx sub-rnd 10YR 8/2 + (5Y 5/2) f.g. to c.g. dol-Carb clsts ± diss v.f.g. fl. abnt (5Y 5/2) v.f.g. x-cut dykelets, typically between 5- | ctc @133.51 m grad ↑fl | | 138.00 | 447 |
| 140.57 | 149.40 | dol-Carb | | <u>dol-Carb</u> | | | | |
| | | | | colour: 5Y 7/2, 10YR 6/2 | | | 141.00 | 621 |
| | | | | mineralogy: dol: 98%, v.f.g. anh; py: 1% f.g. suh; qtz: 1% v.f.g. anh; fl: trace, v.f.g., anh; sid: trace, f.g. euh | ctc at 140.59 m - grad ↓fl | | 144.00 | 659 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|--------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 149.40 | 158.40 | dol-Carb | | 140.57 m to 149.40 m - mottled appearance, v. wkly fol, alternating bnds/patches of v.f.g. dol-Carb, vuggy zones, commonly ~5 cm throughout interval, vug walls typically encrusted with v.f.g. suh cc and v.f.g. to f.g. euh sid 10R 4/6 rhombs often accompanied by f.g. suh to euh py, occasionally vugs infilled by f.g. py with v.f.g. 5R 5/4 sid rim, ~60% of core <10 cm in length possible brittle flt, possible instability due to vugs/fracs, often f.g. py coatings on fracs, vugs decrease towards lower etc. | | | 147.00 | 622 |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: (5Y 5/2), (5Y 7/2) | | | | |
| | | | | mineralogy: dol: 96%, v.f.g., anh; fl: 4%, v.f.g., anh; qtz: trace, f.g. anh; py: trace, f.g. suh; amph: trace, v.f.g. anh; cc: trace, v.f.g. anh; | | | | |
| | | | | 149.40 m to 158.40 m - v. wkly fol, mottled psd-brc. v.f.g. (5Y 5/2) dol-Carb mtx ± v.f.g. 5P 2/2 fl, x-cut late stage (5Y 7/2) v.f.g. dol-Carb dykelets throughout. | ctc at 149.40 m grad ↑fl | | 150.00 | 732 |
| 158.40 | 167.05 | dol-Carb | | 152.40 m to 153.30 m - small patches of cockade brc - sequential f.g. euh dol rim, qtz are ± v.f.g. fl + amph. | | | | |
| | | | | 153.60 m to 155.70 m - abnt γ-gy (5Y 7/2) v.f.g. late stage x-cut dol-Carb dykelets, vug filling v.f.g. fl + py ± v.f.g. (N8) dol. | | | 153.00 | 680 |
| | | | | 155.50 m to 156.30 m - 5-10% diss perv v.f.g. fl. | | | | |
| | | | | 155.80 m - dol-Carb bnd 40° TCA | | | 156.00 | 757 |
| | | | | <u>fl dol-Carb</u> | | | | |
| colour: (5Y 5/2), 5Y 7/2 | | | | | | | | |
| mineralogy: dol: 95% v.f.g. anh; fl: 5% v.f.g. anh; qtz: trace, f.g. anh; py: trace, f.g. anh; bsn/prs: trace, v.f.g., anh; cc: trace, v.f.g., anh | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 158.40 m to 163.28 m - v.f.g. (5Y 5/2) dol-Carb mtx ± v.f.g. 5P 2/2 fl common x-cut late stage (5Y 7/2) v.f.g. dol-Carb dykelets ± v.f.g. 5P 2/2 fl commonly oriented 40°-50° TCA, sparse later generation of v.f.g. 5Y 6/4 dol-Carb dykelets commonly ~30° TCA, psd-brc dol suspended in dol-Carb/fl mtx. | ctc at 158.40 m grad ↑ fl | | 159.00 | 703 |
| | | | | 165.30 m to 167.05 m - common x-cut late stage dol-Carb dykelets, two generations. @165.50 m - later 5Y 6/4 v.f.g. dol-Carb dykelet cuts earlier (5Y 7/2) v.f.g. dol-Carb dykelet, ~10 cm dykelet @~167 m . | | | 162.00 | 600 |
| | | | | 158.40 m to 167.05 m - v. wkly fol, mottled psd-brc. | | | 167.00 | 635 |
| | | | | 163.28 to 165.05 m - dol-Carb - minor interval | | | | |
| | | | | colour: (5Y 5/2), 5Y 7/2 | | | | |
| | | | | mineralogy: dol: 99%, v.f.g., anh; fl: 1%, v.f.g., anh; bsn/prs: trace, v.f.g., anh; py: trace, f.g. anh; REflc?: trace, v.f.g. anh | | | | |
| | | | | 163.79 m to 164.30 m - v.f.g. diss 10R 5/4 bsn/prs. | ctc at 163.28 m grad ↓ fl | | 164.60 | 700 |
| | | | | 164.56 m to 164.92 m - v.f.g. diss 10R 5/4 mon? at ~1% + v. rare (N8) v.f.g. REflc? | ctc at 165.05 m grad ↑ fl | | | |
| | | | | 163.28 m to 165.05 m - v.f.g. (5Y 5/2) dol mtx, fl poor, mon? mottled psd-brc. | | | | |
| 167.05 | 170.76 | dol-Carb | | <u>fl dol-Carb</u> | | | | |
| | | | | colour: (5Y 5/2), (5Y 7/2) | | | | |
| | | | | mineralogy: dol: 95% v.f.g. anh; fl: 5%, v.f.g. anh; py: trace, f.g. anh; bsn/prs: trace, v.f.g., anh; qtz: trace, f.g., anh; monazite: trace, v.f.g., anh | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|--|-------------------------------|---------|----------------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 170.76 | 182.15 | dol-Carb | | 167.05 m to 170.76 m - v.f.g. (5Y 5/2) dol mtx ± v.f.g. 5P 2/2 fl + f.g. (N8) qtz, sparse (N8) f.g. to rare m.g. dol clsts, zones (~168 m) of fl stockwork with typical absence of qtz in vnlets, overall decrease in frequency and size of later stage x-cut dol-Carb dykelets. 167.05 m to 170.76 m - hydro brc + psd-brc. | ctc at 167.05 m sharp 35° TCA | | 170.00 | 860 |
| | | | | <u>fl dol-Carb</u> | | | | |
| | | | | colour: 5Y 7/2, (5Y 5/2) | | | | |
| | | | | mineralogy: dol: 95%, v.f.g. anh; fl: 5%, f.g., anh; py: trace, f.g., anh; qtz: trace, f.g., anh; bsn/prs: trace, v.f.g., anh; mag: trace, v.f.g. anh | | | | |
| | | | | 170.76 m to 174.08 m - mtx-sup hydro brc, v.f.g. lt ol-gy (5Y 5/2) dol mtx ± v.f.g. 5P 2/2 diss fl, rare (5Y 7/2) dol clsts in mtx, mottled psd-brcd appearance. Sparse late stage x-cut pale 10YR 6/2 dol-Carb dykelets. f.g. fl stockwork x-cuts other fracs, absence of qtz from vnlets. | | | ctc at 170.70 m grad text change | |
| 174.08 m to 174.92 m - clst sup hydro brc, v.f.g. (5Y 5/2) dol mtx ± v.f.g. 5P 2/2 diss fl, 5Y 7/2 f.g. to c.g. ang dol clsts, f.g. fl stockwork concentrates over interval, x-cut other features. | | | 176.00 | 551 | | | | |
| 174.92 m to 182.15 m - psd-brc, mottled appearance, patches of v.f.g. 5P 2/2 fl diss between (5Y 7/2) v.f.g. dol with rare f.g. to m.g. anh to euh (N8) dol xtls, f.g. fl stockwork diminished, v. rare 5G 6/1 v.f.g. x-cut dol-Carb dykelets → frequency size decreasing with depth, overall fl concentration/pervness decreasing with depth. | | | 179.00 | 524 | | | | |
| 181.53 m to 181.88 m - 10-15% v.f.g. fl and f.g. fl stockwork. | | | | | | | | |
| 182.15 | 197.62 | dol-Carb | B | <u>dol-Carb</u> | | | | |
| | | | | colour: 5Y 7/2, 5Y 8/4 | | | | |
| | | | | mineralogy: dol: 97%, v.f.g., anh; fl: 3%, v.f.g., anh; qtz: trace, f.g., anh; py: trace, v.f.g., anh; sph: trace, v.f.g., anh; amph: trace, v.f.g., anh | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 182.15 m to 197.62 m - v.f.g. (5Y 7/2) dol mtx mottled with 5Y 8/4 v.f.g. to f.g. anh dol xtls, rare f.g. anh to suh (N8) dol xtls, v.f.g. 5P 2/2 fl occurs in diss patches not perv, v. rare late stage x-cut (5Y 7/2) v.f.g. dol-Carb dykelets. psd-brc. | ctc at 182.15 m grad ↓ fl | | 182.00 | 388 |
| | | | | 183.33 m - lens of hydro brc dol-Carb clsts encased in suh to euh f.g. (N9) dol, small comb structures, ± v.f.g. suh py, v.v.f.g. 5G 2/1 sph + chl. | | | | |
| | | | | 185.50 m to 186.09 m - mod frags over interval often infilled by v.v.f.g. 5G 2/1 sph, ~5 cm pod at 185.87 m ~10% w f.g. suh py. | 185.00 m wk fol 40° TCA | | 185.00 | 476 |
| | | | | 187.88 m to 188.16 m - 1-3 mm vugs, trace v.f.g. 10YR 7/4 cc coating, sparse v.f.g. py on vug walls. 189.30 m to 189.40 m - 1-5 mm vugs. | | | 188.00 | 350 |
| | | | | 191.11 m to 191.14 m - lens of v.v.f.g. gr-blk 5G 2/1 sph + f.g. suh py and v.f.g. suh gal. | | | | |
| | | | | 191.20 to 191.54 - 5% v.f.g. fl + f.g. fl stockwork vnlets, v.rare (10R 7/4) v.f.g. REflc? | | | | |
| | | | | 191.70 m to 192.82 m - v.f.g. gy-y 5Y 8/4 REflc? occurring with v.f.g. 5P 2/2 diss fl. | | | 191.00 | 347 |
| | | | | 191.70 m to 192.82 m - 7% v.f.g. fl with diss 5R 4/6 v.f.g. bsn/prs + v.f.g. 5Y 8/4 REflc, ~2 cm cluster @192.60 m. | | | | |
| | | | | 193.25 m to 193.32 m - f.g. fl bnd. | | | | |
| | | | | 194.11 m to 194.26 m, 195.17 m to 195.47 m, 195.72 m to 195.86 m - 7-15% f.g. diss fl. | | | 194.00 | 430 |
| | | | | 196.74 m to 197.30 m - mtx-sup hydro brc, v.f.g. (5Y 7/2) dol mtx with (N8) f.g. to c.g. ang dol xtls, sparse v.f.g. 5P 2/2 (fl). | | | 197.00 | 450 |
| 197.62 | 213.73 | dol-Carb | <u>dol-Carb</u> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | colour: 10Y 6/2, 10Y 8/2 mineralogy: dol: 98%, v.f.g. anh; fl: 2%, v.f.g. , anh; qtz: trace, f.g., anh; py: trace, f.g., suh; sph: trace, v.f.g. | | | | |
| | | | | 197.62 m to 213.73 m - v.f.g. 10Y 6/2 dol mtx with f.g. to m.g. pale gr-y anh dol xtls, v.f.g. 5P 2/2 fl occurs in diss patches, not perv, increasing frequency of f.g. to m.g. anh to suh (N8) dol xtls. v. wkly fol, mottled psd-brc. v. wk fol usually 40° to 50° TCA. | | | 200.00 | 352 |
| | | | | 200.35 m - bnd in dol-Carb 45° TCA | | | | |
| | | | | 206.98 m to 207.26 m - v.f.g. diss (N3) sph occuring in patches with f.g. anh to suh py. | | | | |
| | | | | 203.13 m to 203.27 m - thin lamellae of v.f.g. 5GY 2/1 sph + v.f.g. suh py. | | | 203.00 | 398 |
| | | | | 206.98 m to 207.26 m - v.f.g. (N3) diss sph patches with f.g. anh to suh py ± f.g. fl euh rhombs of 10R 4/6 f.g. sid? v.f.g. 5R 7/4 bsn/prs. | | | 206.00 | 358 |
| | | | | 206.48 m to 208.62 m - 1-3 mm vugs with v.v.f.g. 10YR 6/6 cc coating on vug walls. | | | | |
| | | | | 208.48 m - wkly stepped frac w v.v.f.g. sul coating and common euh f.g. py. | | | | |
| | | | | @209.18 m - ~1-2 cm v.f.g. fl vn x-cut by ~1 cm (5Y 7/2) v.f.g. dol-Carb dykelet. | | | 209.00 | 346 |
| | | | | 210.66 m to 210.84 m - lenses v.f.g. fl. | | | | |
| | | | | 211.99 m - v.f.g. sph and py lams 55° TCA | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 213.73 | 218.51 | dol-Carb | | @213.00 m - two ~ 1 cm 10Y 6/2 f.g. dol-Carb dykelets. | | | 212.00 | 300 |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: 5GY 6/1, 10YR 8/2 | | | | |
| | | | | mineralogy: dol: 96%, f.g., anh; fl: 4%, v.f.g., anh; py: trace, v.f.g., suh; qtz: trace, v.f.g., anh; sph: trace, v.f.g. anh | | | | |
| | | | | 213.73 m to 218.51 m - mottled psd-brc, v.f.g. (5Y 5/2) dol with f.g. 5Y 6/4 anh dol + v.f.g. to m.g. (N8) anh dol xtls, v.f.g. to f.g. diss fl occurs in locally perv patches, up to ~10%. | ctc at 213.73 m grad ↑ fl | | 215.00 | 360 |
| | | | | 216.34 m to 216.55 m - banded late stage x-cut v.f.g. (5Y 7/2) / 10YR 6/2 dol-Carb vn. | 216.50 banded dol-Carb vn 33° TCA | | 218.00 | 290 |
| 218.51 | 261.98 | dol-Carb | | <u>dol-Carb</u> | | | | |
| | | | | colour: 5Y 7/2, (5Y 5/2) | | | | |
| | | | | mineralogy: dol: 97%, f.g., anh; fl: 2%, v.f.g. anh; qtz: 1%, f.g. anh; bsn/prs: trace, v.f.g., anh; py: trace, f.g., suh; chl: trace, f.g., suh | | | | |
| | | | | 221.28 m to 221.50 m - f.g. anh to suh sph 5YR 5/6 + met (N5) gal, vn rel. | | | | |
| | | | | 218.51 m to 261.98 m - v.f.g. (5Y 7/2)/(5Y 5/2) dol, mottled with f.g. 5Y 6/4 anh dol xtls + sparse f.g. to m.g. anh (5Y 8/1)/(N8) dol xtls. patches of v.f.g. to f.g. 5P 2/2 diss fl. mottled psd-brc. | ctc at 218.51 grad ↓ fl | | | |
| | | | | 218.64 m to 218.80 m - f.g. euh dol rimmed f.g. anh qtz cored vn accompanied by v.f.g. 10YR 5/4 sph? 5GY 2/1 chl. | | | 221.00 | 294 |
| | | | | 223.52 m to 223.58 m - v.f.g. (10R 7/4) bsn/prs? REflc? | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 226.95 m to 228.22 m - ~5% fl, diss v.f.g. patches. | | | | |
| | | | | 221.28 m to 221.50 m - hydro brc, space between brcd dol-Carb clsts infilled by f.g. suh dol+ f.g. anh qtz ± f.g. suh py, v.f.g. anh fl. f.g. anh to suh sph + gal, brcd zone ang at 15° TCA. | | | 221.00 | 294 |
| | | | | 224.88 m to 225.02 m - ~ 30% f.g. diss fl. | | | 224.00 | 211 |
| | | | | 226.56 m to 226.76 m - frac-rel v.f.g. (10R 7/4) min, dull lustre, H=5.0-5.5, possibly a fsp. | | | | |
| | | | | 226.95 m to 228.22 m - ~5% fl, diss patches. | | | 227.00 | 252 |
| | | | | 229.92 m - 1-3 mm vugs with 10YR 7/4 v.f.g. cc coating on walls + f.g. suh to euh py cubes. | | | 230.00 | 250 |
| | | | | 231.50 m to 239.03 m - patches of 1 mm-1 cm vugs with 10YR 7/4 v.f.g. cc coating on walls ± f.g. suh to euh py cubes, at 231.62 m to 231.78 m - possible preferential dissolution of certain layers in comp in comp bnd. | | | 233.00 | 246 |
| | | | | 238.14 m - f.g. suh to euh chl on frac surface. | | | 236.00 | 220 |
| | | | | 238.60 m to 238.82 m - f.g. (10R 7/4) anh min, dull lustre, often occurs with qtz and fl, may be fl alt. | | | 239.00 | 220 |
| | | | | 242.70 m to 243.12 m - broken core, ~ 1 mm vuggy pockets with v.f.g. suh py + po? throughout. | | | 242.00 | 297 |
| | | | | 243.75 m to 243.98 - ~ 0.5 cm (N8) v.f.g. dol vn. | | | | |
| | | | | 243.98 m to 246.50 - frequent chl + sul (v.f.g. py, sph) micro vnlts over interval, contrast increases mottled appearance of psd-brc. | | | 245.00 | 248 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | | |
|---|-----------|-----------|---------------------|--|-----------|---------|---------------------------|--------|-----|--|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | | | |
| 261.98 | 267.51 | dol-Carb | | 247.47 m to 248.13 m - wk fol defined by elongate lenses of (5Y 8/1) dol. | | | 248.00 | 194 | | | | |
| | | | | 249.30 m to 249.89 m - patchy v.f.g. to f.g. anh fl occurring with (10R 7/4) f.g. anh min possible replacement/alt of fl + hydrothermal overprint. | | | 247.57 m - fol 45° TCA | 254.00 | 197 | | | |
| | | | | 251.94 m to 253.76 m - frequent chl + sul (v.f.g. py + sph ±) micro vnlets over interval, open fracs often coated with (N3) stain. | | | | | | 251.00 | 216 | |
| | | | | 253.43 m to 253.74 m - dol bnd running along core with (10R 7/4), anh, min dull lustre. fsp? | | | | | | 255.89 m to 259.81 m - relict? comp bndg; overprinted? | 257.00 | 168 |
| | | | | 255.25 m to 255.89 m - ~5% v.f.g. to f.g. anh (5P 2/2) fl, fl surrounded by v.f.g. (5Y 8/1) dol → hydrothermal overprint? | | | | | | | | |
| | | | | 259.56 m to 259.81 m - relict? comp bnds, f.g. to m.g. anh-euh (5Y 8/1) dol xtls in some bnds. | | | | | | | | |
| | | | | 260.00 m to 261.00 m - f.g. (5Y 8/1) dol with ~5% v.f.g. to f.g. fl - overprint? | | | | | | 260.00 | 201 | |
| <u>dol-Carb</u> | | | | | | | | | | | | |
| colour: (5Y 7/2), (10Y 6/2) | | | | | | | | | | | | |
| mineralogy: dol: 98%, f.g., anh; qtz: 1%, v.f.g., anh; py: 1%, f.g., suh; fl: trace, v.f.g., anh; bsn/prs | | | | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|---------------------------|-----------|---------------------|--|----------------------------------|----------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 267.51 | 291.52 | dol-Carb | | 261.98 m to 267.51 m - mtx-sup hydrothermal brc, v.f.g. (5Y 7/2) dol mtx with (5Y 8/1), (N8) f.g. to m.g. anh to suh dol grains. chl+sul micro vnlets over interval, suls consist of v.f.g. suh to euh py, f.g. suh gal, f.g. anh to suh sph, apparent association with late stage x-cut qtz vns, sparse 1-4 cm dol bnds/vns throughout. | ctc at 261.98 m grad text change | 261.98 m to 267.51 m - hydro brc | 263.00 | 178 |
| | | | | 266.73 m to 266.89 m - m.g. euh py + 1-2 mm vugs with f.g. euh py and (5GY 2/1) sul coating. | 264.43 m - fol bnd 54° TCA | | 266.00 | 199 |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: (5Y 7/2), (5Y 6/1) | | | | |
| | | | | mineralogy: dol: 98%, f.g., anh; fl: 1% v.f.g., anh; qtz: 1%, f.g., anh; py: trace, f.g. suh; cc:trace, v.f.g., anh | | | | |
| | | | | 267.51 m to 291.52 m - mottled psd-brc, v.f.g. (5Y 7/2) dol with (5Y 8/1) and (N8) anh to suh f.g. to m.g. dol grains, patches of v.f.g. to f.g. fl, (5Y 8/1) v.f.g. dol bnds over interval, typically 40° to 50 ° TCA and micro vnlets of suls ± chl, suls include v.f.g. to f.g. suh to euh py, v.f.g. suh pa, v.f.g. anh sph. | ctc at 267.51 m grad text change | | 269.00 | 208 |
| | | | | 270.30 m to 270.33 m - (5Y 8/1) dol bnd with 1-2 mm vugs occupied by v.f.g. to f.g. euh py. | | | 271.00 | 176 |
| | | | | 275.27 m to 277.22 m - stringers of v.f.g. (5Y 7/2) dol at shallow angles TCA. | | | | |
| 276.07 m to 276.20 m - f.g. (5R 7/4) anh min occuring with (5P 2/2) f.g. fl - possible replacement or alt min. | | | 277.00 | 175 | | | | |
| 283.47 m - late x-cut v.f.g. (5Y 7/2) dol vn. | 283.47 m - dol vn 20° TCA | | 281.00 | 188 | | | | |
| 283.85 m to 284.00 m - dol comp bnd. 45° TCA. | | | 284.00 | 196 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 291.52 | 300.90 | dol-Carb | | <p>@285.20 m - frac with qtz vn and f.g. to m.g. anh to euh vitreous (10R 4/6) min, effervesces, with HCL, rare euh rhomb, sid?</p> <p>285.44 m - vuggy dol vn, vug walls coated with v.f.g. cc ± v.f.g. to f.g. suh py. text may be the result of preferential dissolution by hydrothermal fluid.</p> <p>@288.93 m - sul micro vnlets x-cut by later f.g. qtz vnlets, some sul bnds have ~1 cm displacement.</p> <p>287.51 m to 291.52 m - increasing prevalence of f.g. to m.g. (5Y 8/1)/(N8) anh to suh dol grains.</p> <p>289.65 m to 289.69 m - mtx-sup brcd dol vn f.g. to m.g. anh to suh dol grains (N8) in v.f.g. (5Y 7/2) dol mtx, ~1.5 cm v.f.g. (5GY 2/1) clst suspended in flow, trace cc.</p> <p>290.00 m to 291.52 m - patches of v.f.g. to f.g. anh to euh (5P 2/2) fl and rare (5GY 8/1) v.f.g. anh min, dull lustre H=3.5-4.0 REflc? fl? 3-4% fl over entire interval.</p> <p><u>C/dol-Carb</u></p> <p>colour: (5Y 6/1), (5Y 7/2)</p> <p>mineralogy: dol: 89%, f.g., anh; cc: 10%, v.f.g., anh; qtz: 1%, v.f.g., anh; py: trace, f.g., suh; cc: trace, v.f.g., anh</p> <p>291.52 m to 300.90 m - v.f.g. (5Y 6/1) dol mtx, with f.g. to m.g. (N8) / (5Y 8/1) anh to suh dol grains, wk fol, mottled appearance, rare late stage x-cut qtz vnlets, sparse sul ± chl micro vnlets throughout. mtx-sup hydro brc, wkly fol.</p> | 289.66 m - cc dol vn 35° TCA | | 287.00 | 160 |
| | | | | | | | 290.00 | 162 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | |
|-------------|-----------|-----------|---|--|-----------------------------------|---------|---------------|-----|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | |
| 300.90 | 318.92 | dol-Carb | | 293.35 m - bnd cc-qtz-dol vn, f.g. suh C xtls locld in bnd near vn margin → may explain vuggy appearance of others, dissolution of cc leaving coating on pocket walls. | 292.35 m - cc-qtz-dol vn: 45° TCA | | 293.00 | 151 | | |
| | | | | 293.90 m - qtz vn with fl and (10R 6/6) f.g. anh to euh min, dull lustre, euh rhomb intruding into fl, fsp? | | | | | | |
| | | | | 295.72 m - bnded dol vn, f.g. py along ctc, trace cc, trace sph. dol vn 30° TCA, wkly undulating. | | | | | | |
| | | | | ~297 m - (5Y 5/2) undulating dol vn with late x-cut cc micro vnlets. | | | | | | |
| | | | | | | | | | 296.00 | 160 |
| | | | | | | | | | 299.00 | 199 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | 300.90 m to 318.92 m - v.f.g. (5Y 7/2) dol with (N8)/ (5Y 8/1) f.g. to m.g. dol grains, micro vnlets with v.f.g. suls ± chl throughout, v.f.g. to f.g. suh py is the dominant sul rare v.f.g. po. mottled psd-brc. | ctc at 300.90 m grad, text change | | | | | |
| | | | ~301 m - wkly bnded cc/dol vn ~35cm at 23° TCA. | | | | | | | |
| | | | 302.77 m to 303.43 m - v.f.g. to f.g. anh (5P 2/2) fl, 3-4%, hydrothermal overprinting? | | | | | | | |
| | | | | | | | 302.00 | 164 | | |
| | | | | 304.14 m - vuggy dol-C vn, vugs suggest preferential dissolution of cc. | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 318.92 | 327.77 | dol-Carb | | 304.65 m to 304.78 m - dol-Carb qtz sul clst sup brc, v.f.g. (5Y 7/2) dol-Carb with interstitial spaces occupied by v.f.g. qtz and suls, later stage x-cut qtz vns typically oriented 40-45° TCA. | | | | |
| | | | | 305.92 m - late stage x-cut fl-cal vns with bsn/prs? | | | 305.00 | 185 |
| | | | | 306.72 m to 306.83 m - small vuggy pockets, usually surrounded by ltr (5Y 8/1) holes. | | | 308.00 | 183 |
| | | | | 309.18 m to 309.67 m - v. mottled appearance, increased concentration of sul ± chl micro vnlets. | | | | |
| | | | | 311.20 m - ~1 cm dol and qtz vn, m.g. anh to suh (N9) dol. | | | | |
| | | | | 311.28 m - pod of euh c.g. py cubes. | | | 311.00 | 179 |
| | | | | 311.59 m to 311.66 m - (N8) cc/dol vn. 27° TCA. | | | 314.00 | 244 |
| | | | | 317.75 m - irregular v.f.g. cc and dol vn with qtz core. | | | 317.00 | 225 |
| | | | | 318.41 m - (5Y 7/2) v.f.g. dol vn. | | | | |
| | | | | <p><u>dol-Carb</u></p> <p>colour: (5Y 7/2), (10Y 6/2)</p> <p>mineralogy: dol: 95%, v.f.g., anh; cc: 2%, v.f.g., anh; fl: 2%, v.f.g., anh; qtz: 1%, v.f.g., anh; bsn/prs: trace, v.f.g., anh; py: trace, f.g. suh</p> <p>v.f.g. 10YR 6/6 (honey brown) min, anh, H= ~4.0-4.5, wkly effervesers with hcl, REflc?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|----------------------------------|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 327.77 | 333.70 | dol-Carb | | 318.92 m to 327.77 m - v.f.g. (5Y 7/2) dol with sparse (5Y 8/1)/ (N8) f.g. anh-suh dol grains, (5P 2/2) fl occurs as diss patches or isolated pods or lenses → hydrothermal overprint? some fl patches have (10R 8/2) intergrown anh min → not bsn/prs, alt occuring with qtz? wkly fol, mottled psd-brc. | ctc at 318.92 m grad ↑fl | | | |
| | | | | 320.76 m to 322.70 m - bnds of 1-5 mm vugs over interval, vugs typically have coating of v.f.g. cc on walls ± v.f.g. to f.g. anh to euh py. | | 320.00 | 189 | |
| | | | | 323.60 m to 328.00 m - wk bndg. | | | 323.00 | 177 |
| | | | | 324.93 m to 325.17 m - late stage bnded dol vn cuts wk fol → typically 60° TCA. | 325.00 m - bnded dol vn, 25° TCA | | | |
| | | | | 326.70 m - pod of v.f.g. to f.g. anh fl with v.f.g. cc. | | | 326.00 | 201 |
| | | | | 327.16 m - ~2 mm x-cut fl/dol vn. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: (5Y 7/2), (10Y 6/2) | | | | |
| | | | | mineralogy: dol: 97%, v.f.g., anh; bsn/prs: 2%, v.f.g., anh; fl: 1%, v.f.g., anh; qtz: 1%, v.f.g., anh; py: trace, f.g., suh; cc: trace, v.f.g., anh | | | | |
| | | | | 327.77 m to 333.70 m - v.f.g. (10R 4/6) anh bsn/prs, diss and frac-rel. | | | | |
| | | | | 327.77 m to 333.70 m - v.f.g. (5Y 7/2) dol with (5Y 8/1)/ (N8) f.g. to m.g. anh to suh dol grains, micro vnlets of v.f.g. suls ± chl throughout, v.f.g. mod (10R 4/6) bsn/prs ± rare v.f.g. v. (10YR 8/2) min H=3.5-4.0 dull lustre REflc? fl? mineralization occurs is diss patches, not perv. interval occasionally appears wkly bnded, few late stage x-cut (5Y 5/2), occasionally bsn/prs loclld along margin or with suls. | ctc at 327.72 m grad ↑ bsn/prs | 327.77 m to 333.70 m - mottled psd-brc. | 329.00 | 222 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|--|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 333.70 | 336.75 | dol-Carb | | <p>332.42 m to 332.45 m - fl/cc/dol bnds at ~90° TCA.</p> <p><u>bsn/prs - dol-Carb</u></p> <p>colour: (5Y 7/2), (5YR 7/2)</p> <p>mineralogy: dol: 95%, v.f.g., anh; bsn/prs: 5% v.f.g., anh; qtz: 1%, v.f.g. anh; fl: trace, v.f.g., anh; py: trace, f.g., suh; cc: trace, v.f.g., anh</p> <p>333.70 m to 336.75 m - v.f.g. (10R 4/6) bsn/prs ~5%.</p> <p>333.70 m to 336.75 m - v.f.g. (5Y 7/2) dol with sparse (5Y 8/1)/ (N8) f.g. to m.g. anh-suh dol grains, trace fl over interval, possible replacement of fl by bsn/prs. Sparse micro vnlets of sul (dominantly v.f.g. to f.g. suh py) ± chl, bsn/prs mineralization is wkly perv.</p> <p>333.99 m to 334.48 m - large frac at 10° TCA, vuggy pockets with coating of v.f.g. cc ± v.f.g. to f.g. along and proximal to frac.</p> | | | 332.00 | 250 |
| 336.75 | 354.84 | dol-Carb | | <p>335.75 m to 335.78 m - late stage x-cut (10YR 8/2) v.f.g. cc/dol vn.</p> <p><u>dol-Carb</u></p> <p>colour: (5Y 7/2), (5Y 6/1)</p> <p>mineralogy: dol: 96%, v.f.g., anh; bsn/prs: 3%, v.f.g., anh; qtz: 1%, v.f.g., anh; fl: trace, v.f.g., anh; py: trace, v.f.g., suh; cc: trace, v.f.g., anh</p> <p>336.75 m to 354.84 m - diss v.f.g. (10R 4/6) bsn/prs.</p> | <p>ctc at 333.70 m grad ↑ bsn/prs</p> <p>334.20 m - frac 10° TCA</p> | <p>333.70 m to 336.75 m - mottled psd-brc</p> | 335.00 | 262 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 336.75 m to 354.84 m - v.f.g. (5Y 7/2) dol with rare (5Y 8/1)/(N8)/(5Y 6/4) f.g. to m.g. dol grains, fl occurs as mottled patches, common micro vnlets of v.f.g. suls ± chl, common late stage x-cut (10YR 8/2) v.f.g. cc/dol vns, bsn/prs mineralization occurs as diss patches ± intergrown fl, bsn/prs may be replacing fl. | ctc at 336.75 m grad ↓ bsn/prs | 336.75 m to 354.84 m - mottled psd-brc | | |
| | | | | 337.23 m to 337.28 m - (10YR 8/2) v.f.g. cc/dol vn. | 337.25 m - late stage cc/dol vn 33° TCA | | 338.00 | 213 |
| | | | | 339.25 m - (10Y 8/2) late stage x-cut dol vn 33° TCA, f.g. anh fl + v.f.g. cc at margins. | | | | |
| | | | | 340.04 m to 340.27 m - late stage pale gr-y (10Y 8/2) x-cut cc/dol vns → 30° TCA truncated by ~60° TCA. | | | | |
| | | | | 340.57 to 341.00 m - 1-2 mm late stage x-cut qtz vns. | | | | |
| | | | | 341.00 m to 343.63 m - (5P 2/2) v.f.g. to m.g. anh fl ~3-4% → v. mottled appearance, hydrothermal overprint? v.f.g. (10Y 6/2) x-cut cc/dol vns, typically 25-30° TCA. | | | 341.00 | 268 |
| | | | | 343.00 m - late stage dol vn, 29° TCA | | | | |
| | | | | 343.06 m to 343.17 m - f.g. to c.g. anh-euh dol pbls. | | | | |
| | | | | 346.11 m - 2-3 mm fl-qtz vn, with v.f.g. (5YR 5/6) anh min, dull lustre, H=3.0-3.5 REflc? | | | 344.00 | 245 |
| | | | | 347.17 m to 347.28 m - v.f.g. (10R 6/6) bsn/prs with sparse fl and py, bsn/prs replacing fl? | | | 347.00 | 200 |
| | | | | 350.52 m to 350.67 m - few 2-4 mm late stage vns. | | | 350.00 | 250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 354.84 | 360.86 | dol-Carb | | <p>350.70 m to 350.74 m - late stage x-cut vn with m.g. to c.g. suh to euh dol, m.g. anh to suh fl, f.g. euh py, (5G 3/2) m.g. euh acicular amph, and v.f.g. (5YR 4/4) anh min, dull lustre, H=3.5-4.0, REflc? tested with XRF, LREE enriched min, REflc?</p> <p><u>dol-Carb</u></p> <p>colour: (5Y 7/2), (5Y 5/2)</p> <p>mineralogy: dol: 95%, v.f.g. anh; bsn/prs: 4%, v.f.g. anh; qtz: 1%, v.f.g., anh; fl: trace, v.f.g., anh, py: trace, v.f.g., suh; cc: trace, v.f.g., anh</p> <p>354.84 m to 360.86 m - v.f.g. (10R 6/6) diss bsn/prs.</p> | | | 353.00 | 240 |
| | | | | <p>354.84 m to 360.86 m - v.f.g. (5Y 7/2), (5Y 5/2)dol with rare (5Y 8/1) f.g. to m.g. - anh to suh dol grains, mod perv v.f.g. (10R 4/6) diss bsn/prs. wk fol throughout interval, common ~1 cm late stage x-cut v.f.g. (5Y 7/2) cc/dol vns. wkly fol mottled psd-brc.</p> | ctc at 354.84 m grad, text change | | 356.00 | 254 |
| 360.86 | 371.17 | dol-Carb | | <p>356.18 m to 356.23 m - late stage dol vn with m.g. suh to euh dol pbls.</p> <p><u>dol-Carb</u></p> <p>colour: (5Y 7/2), (10Y 6/2)</p> <p>mineralogy: dol: 98%, v.f.g., anh; cc: 1%, v.f.g., anh; qtz: 1%, v.f.g., anh; fl: trace, v.f.g., anh; py: trace, f.g., suh; bsn/prs: trace, v.f.g., euh; ap: trace, v.f.g., anh</p> <p>360.86 m to 371.17 m - v.f.g (5Y 7/2) dol with rare f.g. to m.g. (5Y 8/1)/ (N8) anh to suh dol grains, sparse late stage x-cut v.f.g. (5Y 7/2) dol vns. wkly fol mottled psd-brc.</p> | 355.00 m → weak bndg 38" TCA | | 359.00 | 230 |
| | | | | | ctc at 360.86 m grad ↓ bsn/prs | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 371.17 | 382.89 | dol-Carb | | 362.36 m to 364.15 m - wk, partially overprinted fol, near parallel TCA. | 362.36 m to 364.15 m fol → 80°-90° TCA | | 362.00 | 216 |
| | | | | 364.15 m to 364.50 m - clst sup brc from 364.15 m to 364.45 m → f.g. to c.g. clsts of ang (5Y 7/2) dol-Carb in (5Y 5/2) v.f.g dol-Carb mtx. 364.45 m to 364.50 m → ctsc → f.g. to m.g. (N8) dol-Carb clsts in v.f.g. (5Y 7/2) dol-Carb mtx. | | | | |
| | | | | 365.40 m to 365.80 m - wk, partially overprinted fol, near parallel TCA. | | | 365.00 | 200 |
| | | | | 366.08 m to 366.62 m - pods and lenses of (10Y 8/2) f.g. to m.g. anh to euh dol pbls | | | | |
| | | | | 368.77 m to 369.21 - (10R 6/6) discolouration patches over interval alt? | | | 368.00 | 234 |
| | | | | 369.50 m to 371.17 m - diss v.f.g (10R 4/6) bsn/prs ~2%. | | | 371.00 | 237 |
| | | | | <u>dol-Carb</u> colour: (10YR 6/2), (5Y 5/2) mineralogy: dol: 95% v.f.g. anh; bsn/prs: 4%, v.f.g., anh; qtz: 1%, v.f.g., anh; fl: trace, v.f.g., anh; py: trace, f.g., suh; cc: trace, v.v.f.g., anh | | | | |
| | | | | 371.17 m to 382.89 m - diss v.f.g. (10R 4/6) bsn/prs. | | | | |
| | | | | 371.17 m to 382.89 m - v.f.g. (5Y 7/2), (5Y 5/2) dol with v.rare f.g. to m.g. (5Y 8/1) anh dol grains, mod perv (10R 4/6) diss bsn/prs, common micro vnlets of v.f.g. py ± chl. mottled. | ctc at 371.17 m grad ↑ bsn/prs | | 374.00 | 242 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 382.89 | 386.80 | dol-Carb | | 372.45 m to 372.62 m - mtx-sup brc → f.g. to c.g. ang (5Y 8/1) dol-Carb clasts, in v.f.g (5Y 5/2) dol-Carb mtx, brcd zone proximal to frac zone. | 372.50 m - fracs → ~20° TCA | | 377.00 | 266 |
| | | | | 378.96 m to 380.41 m - bnds of brcd (10GY 7/2) ang f.g. to c.g. dol-Carb. | | | 380.00 | 260 |
| | | | | <u>cc/dol-Carb</u> colour: (5Y 7/2), (10YR 6/2) mineralogy: dol: 88%, v.f.g., anh; cc: 10%, v.f.g. anh; bsn/prs: 2%, v.f.g., anh; qtz: trace, v.f.g., anh; py: trace, f.g. suh; fl: trace, v.f.g., anh | | | | |
| | | | | 382.89 m to 386.80 m - v.f.g. (10R 4/6) bsn/prs diss. | | | 383.00 | 290 |
| | | | | 382.89 m to 386.80 m - v.f.g. (5Y 6/1) dol with f.g. (5Y 7/2) anh to suh dol grains, wkly perv (10R 4/6) bsn/prs over interval, lenses and bnds of hydrothermally brcd (5Y 6/1) ang dol-Carb clsts, fracs infilled by v.f.g. qtz, fl, dol; f.g. py and v.f.g. (5GY 2/1) min → H=1.0-2.5 no effervescence with HCL → chl? srp? tlc? f.g to m.g., anh to suh dol and fl also occur in brc vns, v.f.g. bsn/prs occurs proximal to or in brcd zones. mottled with hydro brc → clst sup. | ctc at 382.89 m grad → text change | | 386.00 | 306 |
| 386.80 | 402.52 | dol-Carb | | <u>cc/dol-Carb</u> colour: (5Y 6/1), (5GY 6/1) mineralogy: dol: 86%, f.g., anh; cc: 10%, v.f.g., anh; bsn/prs: 4%, v.f.g., anh; qtz: trace, v.f.g., anh; fl: trace, v.f.g., anh; py: trace, f.g., suh | | | | |
| | | | | 386.80 m to 402.52 m - mod perv diss v.f.g. (10R 4/6) bsn/prs. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|-----------|-----------|---------------------|--|---|--------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 402.52 | 411.58 | dol-Carb | | 386.80 m to 402.52 m - mottled f.g. anh (5Y 6/1) and (5GY 6/1) dol, mod perv diss v.f.g. bsn/prs throughout, sparse patches of v.f.g. fl → hydrothermally overprinted? sparse vuggy pockets of (5Y 8/1) f.g. cc and dol, common late stage x-cut qtz vns and py, srp? chl? vns. bsn/prs occurs proximal or along margins of qtz vns. | ctc at 386.80 m grad, text change ↑ bsn/prs | 386.80 m to 402.52 m - mottled | | |
| | | | | 388.52 m to 388.55 m - qtz cored vn with fl, py.qtz vn 30° TCA | | | | |
| | | | | ~389.00 m - v.f.g. to f.g. anh to suh fl. fl rich zones apparently bsn/prs poor → bsn/prs may be later stage mineralization replacing fl. | | | 389.00 | 287 |
| | | | | ~391.00 m to ~392.00 m - v. wk fol running near parallel TCA, possible result of hydrothermal flow, zone is bsn/prs poor. | | | | |
| | | | | @391.24 m - lens of v.f.g. gr-blk (5GY 2/1) min → chl? srp? tlc? | | | 392.00 | 204 |
| | | | | 391.27 m to 391.28 m - v.f.g. late stage x-cut cc/dol-vn (5Y 8/1). late stage dol vn, undulating. | | | 395.00 | 293 |
| | | | | 397.22 m to 398.19 m - late stage x-cut qtz cored dol rimmed vns. f.g. anh translucent qtz core, f.g. to m.g. anh to euh (5Y 8/1) dol rim ± py, bsn/prs. v.f.g. bsn/prs occurs proximal or in qtz vns. | | | 398.00 | 320 |
| 398.19 m to 402.52 m - abnt mm scale qtz cored vnlets + intimately associated v.f.g. (10R 4/6) bsn/prs; larger lenses with dol+py+serp? also occur. | 401.00 | 225 | | | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | (10Y 6/2), (5Y 7/2) | | | | |
| | | | | mineralogy: dol: 97%, f.g., anh; cc: 3%, v.f.g., anh; qtz: trace, v.f.g., anh; py: trace, f.g., anh; bsn/prs: trace, v.f.g., anh; fl: trace, v.f.g., anh | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------------------|---------|--|-----|
| | | | | | | | DEPTH (m) | CPS |
| 411.58 | 416.54 | dol-Carb | | 402.52 m to 411.58 m - diss (10YR 6/6) v.f.g. dol? effervesces with HCL, possibly alt of REflc. mottled, wk fol. | ctc at 402.52 m grad ↓ bsn/prs | | 404.00 | 252 |
| | | | | 404.08 m to 404.62 m - clst sup brc, m.g. to v.c.g. ang clsts of dol-Carb, brc vnwork consists of qtz, chl or srp, + v.f.g. (5R 7/4) anh min possibly bsn/prs intergrown with qtz. | | | | |
| | | | | 407.00 m to ~408.00 m - wk fol/lam ~17° TCA, alternating (5Y 7/2), (10Y 6/2) bnds, isolated bnds of 1-2 mm vuggy pockets with v.f.g. cc coating on vug walls → appearance may be due to hydrothermal overprinting. | | | 407.00 m to ~408.00 m - wk fol/ lam, 17° TCA | |
| | | | | 408.07 m - 1-4 mm qtz vn with f.g. suh dol rim, x-cut. | | | 408.00 | 209 |
| | | | | 408.50 m to ~410.00 m - v.f.g. bsn/prs diss. | | | | |
| | | | | 409.96 m to 410.17 m - v.f.g. diss fl and bsn/prs. | | | 411.00 | 207 |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: (5Y 8/1), (5Y 7/2) | | | | |
| | | | | mineralogy: dol: 96%, f.g., anh; cc: 3%, v.f.g., anh; bsn/prs: trace, v.f.g., anh; py: trace, f.g., suh; qtz: trace, v.f.g., anh; fl: trace, v.f.g., anh | | | | |
| | | | | 413.93 m to 414.53 m - clst sup brc, ang m.g. to v.c.g. (5Y 8/1) dol-Carb with qtz, bsn/prs, dol, chl or srp vnwork between clsts. mottled. | | | | |
| | | | | @414.50 m - c.g. euh (N8) dol, bsn/prs increases proximal to brcd zone. | | | 414.00 | 202 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------------|------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 416.54 | 420.29 | dol-Carb | | <p>@~415.00 m - psd-brc appearance.</p> <p><u>dol-Carb</u></p> <p>colour: (5Y 7/2), (10YR 6/2)</p> <p>mineralogy: dol: 98%, f.g., anh; cc: 2%, v.f.g., anh; fl: trace, v.f.g., anh; qtz: trace, v.f.g., anh; bsn/prs: trace, v.f.g. anh</p> | ctc at 416.54 m grad colour change | | | |
| | | | | 416.54 m to 418.13 m - diss bsn/prs v.f.g. (10R 4/6) ~1%. ctc at 416.54 m grad colour change, ↓ cc. | | 416.54 m to 420.00 m mottled | | |
| | | | | 417.76 m to 418.06 m - overprinted late stage deformed vn → resembles parasitic folds, highlighted by fl or bsn/prs concentrating at margin. | | | 417.00 | 252 |
| | | | | 417.80 m - deformed and overprinted late stage vn. | | | | |
| | | | | 419.46 m to 419.70 m - v.f.g. patchy fl. | | | 420.00 | 214 |
| 420.29 | 451.77 | dol-Carb | | <p><u>cc/dol-Carb</u></p> <p>colour: (5Y 7/2), (10Y 6/2)</p> <p>mineralogy: dol: 90%, f.g., anh; cc: 10%, v.f.g., anh; bsn/prs: trace, v.f.g., anh; fl: trace, v.f.g., anh; py: trace, f.g. suh; qtz: trace, v.f.g., anh</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 420.00 m to 451.77 m - mottled, hydrothermal overprint. | | | | |
| | | | | 420.50 m to 422.00 m - diss (10R 4/6) bsn/prs, ~3-4%. | ctc at 420.00 m grad ↑ cc | | 423.00 | 255 |
| | | | | ~421.50 m - locl'd fl patch. | | | 426.00 | 233 |
| | | | | 422.00 m - late stage (N8) v.f.g. x-cut dol vn. | | | 429.00 | 221 |
| | | | | 425.00 m - mottled v.f.g. fl patch with vuggy cc pockets. | | | 432.00 | 229 |
| | | | | 431.00 m - small patch of clst sup brc with qtz cored vns and frac-rel mod r-br (10R 4/6) bsn/prs. | | | 435.00 | 249 |
| | | | | 433.40 m to 434.06 m - vuggy pockets of ± v.f.g. (N8) cc coating. | | | 438.00 | 228 |
| | | | | 434.89 m to 435.04 m - ~3 cm vuggy pocket with c.g. anh to suh fl ± m.g. suh to euh py. | | | 441.00 | 247 |
| | | | | 438.00 m to 438.40 m - colloform + crustiform bndg around clsts of (5Y 7/2) dol-Carb. | | | 443.00 | 243 |
| | | | | 439.34 m to 451.77 m - x-cut qtz vnlets and py, chl vnlets, sparse associated bsn/prs. | | | 445.00 | 178 |
| | | | | 442.30 m - ~2 cm vug with f.g. suh fl, f.g. cc, f.g. suh py. | | | 448.00 | 214 |
| | | | | 449.67 m to 450.06 m - v.f.g. (5Y 5/2) dol mottled with f.g. to m.g. (10Y 8/2) anh to suh dol. ctc at 451.77 m grad text change, ↑ qtz, ↓ cc. | | 451.00 | 171 | |
| 451.77 | 457.20 | dol-Carb | <u>dol-Carb</u> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: lt ol-gy (5Y 6/1), (5Y 5/2)</p> <p>mineralogy: ~95-97% v.f.g. to f.g. anh to suh dol; 1-3 % v.f.g. anh qtz; trace - 2% v.f.g. anh bsn/prs; trace py, chl, fl, bio/phl</p> <p>457.20 m to 469.76 m - mottled to mass with subtle local bndg and brcd dol-Carb clsts.</p> <p>457.20 m to 469.76 m - v.f.g. to f.g. lt ol-gy dol with qtz occurring dominantle as x-cut vnworks or lenses. qtz vns oftrn have w (N9) anh to euh, f.g. to m.g., dol xtls at rim with qtz core. healed frac typically infilled by v.v.f.g. to v.f.g. gr-blk (5GY 2/1) bio/phl ± chl common over interval. bsn/prs is typically frac-rel occurring proximal to qtz vnwork or bio/phl stringers.</p> <p>457.20 m to 459.94 m - wkly perv v.f.g. lt ol-br to tan dol?</p> <p>457.64 m to 457.87 m - v.f.g. r (5R 4/6) bsn/prs throughout qtz vnwork.</p> <p>460.86 m to 461.11 m - ol-gy qtz vn ~22° TCA, irregular.</p> <p>460.96 m to 461.11 m - x-cut ol-gy (5Y 3/2) qtz vn with entrained dol-Carb clsts + v.f.g. py proximal to margin, sharp and irregular etc.</p> <p>462.89 m to 463.18 m - patches of v.f.g. mass py.</p> <p>463.21 m to 465.00 m - intervals of bleached dol-Carb, crustiform bnd at margins, bleached zones have increased abnt of v.f.g. r bsn/prs, qtz vn lenses occur in bleached zones ± proximal bsn/prs.</p> <p>463.21 m to 465.80 m - frac-rel or wkly perv v.f.g. r bsn/prs.</p> <p>466.10 m - large vug.</p> | | | | |
| | | | | | | | 460.00 | 280 |
| | | | | | | | 463.00 | 250 |
| | | | | | | | 466.00 | 380 |
| | | | | | | | 469.00 | 265 |
| | | | | | | | min | 245 |
| | | | | | | | max | 510 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|------------------|-----------|------------------|--|--|------------------------------------|---|--------|
| | | | | | | | DEPTH (m) | CPS |
| 469.76 | 476.78 | dol-Carb | | 467.42 m to 467.77 m - network of distorted and brcd v.f.g. ol-gy dol-Carb vns, no preferential orientation. | ctc at 469.76 m, grad, colour darkens. | highs through 465.00 m to 468.00 m | avg | 310 |
| | | | | CPS: min: 245 max: 510 avg: 310 | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: lt ol-gy (5Y 7/2, 5Y 6/1) | | | | |
| | | | | mineralogy: ~98% v.f.g. to f.g. anh to suh dol; 1-2% v.f.g., anh qtz; trace py, bsn/prs, fl bio/phl, chl | | | 472.00 | 360 |
| | | | | 469.76 m to 476.78 m - mottled to mass v.f.g. dol with x-cut qtz vnworks. qtz vns in this interval typically large, up to 20 cm at angle TCA. all qtz vns have f.g. to m.g. anh to euh w (N9) dol xtls at rim with translucent qtz core. healed fracs less abnt than overlying unit but still have v.v.f.g. to v.f.g. bio/phl ± chl infill. v. rare v.f.g. r (5R 4/6) bsn/prs? still occurs proximal to x-cut qtz vnwork. wkly prev v.f.g. mod y-br (10YR 5/4) dol? occurs throughout. py is typically v.f.g. to f.g. anh to suh frac-rel. v. rare x-cut dol-Carb vns. | | | 469.76 m to 476.78 m - mass to mottled, local brc | 475.00 |
| qtz vnworks: 472.20 m to 472.36 m, 472.60 m to 473.28 m, 473.77 m to 474.05 m, no preferential orientation, irregular undulating lenses. | | | | | | | | |
| 472.22 m to 472.27 m - v.v.f.g. br-blk (5YR 2/1) bio/phl bordering qtz vn. | prox to 472.00 m | min | 260 | | | | | |
| 474.77 m to 475.43 m - broken zones → mechanical. | | max | 360 | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|---------------------------------------|------------------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 476.79 | 487.41 | dol-Carb | | 475.00 m to 476.78 m - zones of mtx-sup brc, clsts are lt ol-gy (5Y 6/1) ang to sub-rnd f.g. to v.c.g. dol-Carb in v.f.g. lt ol-gy (5Y 5/2) dol mtx. | ctc at 476.78 grad, colour lightens, diminsihed qtz vnwork | | avg | 300 |
| | | | | CPS: min: 260 max: 360 avg: 300 | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: lt ol-gy to y-gy (5Y 6/1, 5Y 7/2) | | | | |
| | | | | mineralogy: ~98% v.f.g to f.g. anh dol, trace ~1% v.f.g. anh qtz, trace py, chl, fl. | | | | |
| 476.78 m to 487.41 m - v.f.g. to f.g. lt ol to y-gy dol with common healed fracs throughout. fracs infilled by gy-gr to gr-blk (5G 5/2, 5GY 2/1) v.v.f.g. suls ± bio/phl ± chl. py is frac-rel ranging from v.f.g. to rare m.g. anh to rare euh; rare x-cut qtz or dol-Carb vns and sul sutures. abnt of perv v.f.g. to f.g. mod y-br dol? ↑ with depth. mass to mottled with local bndg and brc and psd-brc. | | | | | | | | |
| 478.05 m to 479.28 m - wkly perv lt br min? alt or staining? | | | 478.00 | 290 | | | | |
| 479.09 m to 479.28 m - x-cut qtz vn with v.f.g. mod r-br (10R 4/6) min? alt or staining? | 479.15 m - qtz vn 20° TCA | prox to 480.00 m | | | | | | |
| 482.52 m to 482.59 m - x-cut v.f.g. lt ol-gy dol-Carb vn. | 482.56 m - x-cut dol-Carb vn 35° TCA | | 481.00 | 255 | | | | |
| 482.82 m to 483.03 m - x-cut v.f.g. y-gy (5Y 8/1) dol-Carb vn. | 482.90 m - x-cut dol-Carb vn ~20° TCA | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 484.02 m to 484.17 m - patch of perv v.f.g. lt br min? alt/staining? with trace pale p fl. | | | 484.00 | 270 |
| | | | | 485.00 m to 487.41 m - text combination of psd-brc, clst and mtx-supported brc. clsts are lt ol-gy to y-gy ang to sub-rnd, f.g. to v.c.g. dol-Carb in v.f.g. lt ol-gy dol-Carb mtx. Local x-cut qtz vns and associated v.f.g. lt br min. | | | 487.00 | 240 |
| 487.41 | 502.08 | dol-Carb | | <p>CPS: min: 200 max: 350 avg: 290</p> <p><u>tlc fl dol-Carb</u></p> <p>colour: v. lt gy , mod y-br (N8, 10YR 5/4)</p> <p>mineralogy: 90-95% v.f.g. to f.g. anh to suh dol, 3-5% v.f.g. anh fl, 2-5% v.f.g. to f.g. anh to suh tlc, trace ~2% v.f.g. to f.g. amp, trace qtz, chl, ap? (bl-w UV fluorescence)</p> <p>487.41 m to 502.08 m - mottled appearance of core dominantly generated by intergrown v.f.g. to f.g. anh to suh v. lt gy (N8) and mod y-br (10YR 5/4) dol. p (5P 2/2) fl is typically patchy but locally perv; mm fl vns also occur. Pale b-gr (5BG 7/2) tlc is frac-rel and often occurs intergrown with amp and fl giving core a pale gr (5G 7/2) hue. py is also frac-rel occurring with tlc and ranges from anh to euh, v.f.g. to m.g. xtls. sparse late stage x-cut dol-Carb vns and rare x-cut qtz vns ± fl. pale p (5P 6/2) to cr (10YR 8/2) "shards", relict ghost clsts occur throughout interval. abnt healed/infilled fracs throughout. mottled, local bndg and psd-brc.</p> <p>489.50 m to 489.72 m - pale p ghost clst shards, small fl patches with brick r (10R 4/6) v.f.g. bsn.</p> <p>491.72 m to 491.76 m - v.f.g. pale r-br (10R 5/4) min, fl alt?</p> <p>493.68 m to 494.25 m - x-cut dol-Carb vns, v.f.g.</p> | ctc at 487.41 m grad ↑ fl and perv mod y-br dol | | | |
| | | | | | | | 490.00 | 280 |
| | | | | | | | 493.00 | 300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|--|---------------------|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 502.08 | 512.94 | dol-Carb | | 493.68 m to 493.78 m - dol-Carb vns pale p. | | | | | | | |
| | | | | 493.68 m to 494.25 m - x-cut dol-Carb vns, dominantly 33° TCA. | | | | | | | |
| | | | | 494.07 m to 494.25 m - dol-Carb vns lt ol-gy, pale p dol-Carb vns wkly impregnated by fl. | | | | | | prox to 494.00 m | |
| | | | | 496.43 m to 497.44 m - mm x-cut fl-qtz vns 30-40° TCA. | | | | | | 496.00 | 300 |
| | | | | 497.87 m to 501.00 m - frac-rel pale r-br v.f.g. min, fl alt? | | | | | | | |
| | | | | 500.32 m - 501.60 m - cr to buff (10YR 8/2, 5YR 8/4) dol mottles. 502.00 m - subtle bndg, shallow TCA, wk undulation 15° TCA. | | | | | | 499.00 | 290 |
| | | | | CPS: min: 260 max: 360 avg: 300 | | | 502.00 | 300 | | | |
| | | | | <u>tlc dol-Carb</u> | | | | | | | |
| | | | | colour: lt gy, mod y-br (N7, 10YR 5/4) | | | | | | | |
| | | | | mineralogy: 93-96% v.f.g. to f.g. anh to suh dol, 2-5% v.f.g. to f.g. anh to suh tlc, trace - 2% v.f.g. anh fl, trace py, chl, amp, ap? (b-w UV fluorescence), frac-rel pale r-br min → fl alt by qtz? | | | | | | | |
| | | | | 502.68 m to 502.82 m - x-cut fl-qtz vns, roughly 30° TCA. | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>502.08 m to 512.94 m - mottled appearance of core dominantly generated by intergrown v.f.g. to f.g. anh to sub lt gy (N7) and mod y-br (10YR 5/4) dol. common to abnt healed/infilled fracs throughout interval v.f.g. to f.g. pale b-gr (5BG 7/2) tlc is frac-rel. tlc often intergrown with fl and dol giving core a pale gr (5G 7/2) hue. fracs and proximal zones typically have a gy-gr to dusky gr (10GY 5/2, 5G 3/2) colouration generated by infill → combination of dol, tlc, fl, py ± chl, amp. fl is dominantly frac-rel though wkly perv wispy patches occur locly. rare x-cut dol-Carb vns, sparse x-cut qtz vns ± fl. frac abundance gradually ↓ with ↑ depth. mottled to mass with local bndg.</p> <p>502.68 m to 502.82 m - mm x-cut fl - qtz vns.</p> <p>504.00 m to 505.00 m - subtle bndg at shallow angle TCA, ~20°</p> <p>505.90 m to 512.60 m - frac-rel pale r-br v.f.g. min, fl alt?</p> <p>506.08 m to 506.20 m - jogging vert fracs enclosing alt v.f.g. gy-gr (10GY 5/2) dol-Carb.</p> <p>507.50 m to 511.00 m - decreased healed fracs, core v. lt gy to y-gy in colour (N8, 5Y 8/1).</p> <p>511.55 m to 512.30 m - ~1 mm wide fl-qtz vnlet at 7° TCA.</p> <p>512.90 m to 512.94 m - bnd of clst sup brc, f.g. to m.g. ang to sub-rnd dol-Carb clsts with itsl v.f.g. fl, tlc, py, dol. ctc at 512.94 m grad ↓ tlc and fracs.</p> <p>CPS: min: 250 max: 350 avg: 300</p> | | | | |
| | | | | | 506.25 m - x-cut pale ol dol-Carb vn 62° TCA | | 505.00 | 300 |
| | | | | | | prox to 508.00 m | 508.00 | 340 |
| | | | | | | | 511.00 | 270 |
| 512.94 | 528.50 | dol-Carb | <u>dol-Carb</u> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: mod y-br, lt ol-gy (10YR 5/4, (5Y 5/2))</p> <p>mineralogy: ~97% v.f.g. to f.g. anh to suh dol, trace ~3% v.f.g. to f.g. anh fl, trace py and chl.</p> <p>CPS highs associated with hydro brc.</p> <p>512.94 m to 528.50 m - mottled appearance generated by intergrown mod y-br and lt ol-gy dol. v.f.g. to f.g. anh fl occurs as wkly perv wispy patches and as mm vnlets with qtz. v.f.g. to f.g. anh to euh py is frac-rel. healed fracs are sparse to common over and typically have a v.f.g. dol infill. v. rare x-cut v.f.g dol-Carb vns. mottled to mass with local bndg. excluding 521.80 m-522.26 m, 523.37 m-524.15 m, 525.39 m-525.74 m.</p> <p>*hydrothermal cockade brc zones.*</p> <p>521.80 m to 522.26 m, 523.37 m to 524.15 m, 525.39 m to 525.74 m - perv v.f.g. to f.g. lt br min → mon? → no effervescence with HCL, H = ~4.5, RE bearing.</p> <p>hydro brc zones have sharp ctc's with the exception of upper ctc for 523.37 m to 524.15 m where ctc is grad. hydro brc contains m.g. to c.g. lt gy suh to euh dol grains typically as rhombs, though elongate laths do occur. cockade structure is comprised of a v.f.g to f.g. anh p (5P 2/2) fl rim around dol grains, followed by f.g. anh to euh w (N9) dol xtls preceding a v.f.g. to f.g. p (5P 2/2) anh fl core. other itsl spaces are occupied by pale ol (10Y 6/2) mtz comprised of v.f.g. dol, py, rare gr fl + perv v.f.g. to f.g. lt br (5YR 5/6) REE bearing min → mon?</p> <p>highest XRF value: ~10.9% RE's; v.f.g. pale r (5R 6/6) bsn also occurs.</p> <p>ctc at 521.80 m sharp ~30° TCA slightly irregular, ctc at 522.26 m sharp 27° TCA, slightly irregular ctc at 523.37 m, grad text change, ctc at 524.15 m sharp 57° TCA, wk undulation, ctc at 525.39 m sharp irregular, ctc at 525.74 m - sharp 75° TCA wk undulation.</p> | | | 514.00 | 275 |
| | | | | | | | 517.00 | 260 |
| | | | | | | | 520.00 | 250 |
| | | | | | | | 523.00 | 290 |
| | | | | | | | 526.00 | 280 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 528.50 | 547.20 | dol-Carb | | <p>514.00 m to 515.00 m - cr (10YR 8/2) dol mottles.</p> <p>515.20 m to 515.45 m - frac-rel v.f.g. pale r-br min, fl alt?</p> <p>515.00 m to 518.17 m - wispy patches of wkly perv fl; fl-qtz vnlets in interval.</p> <p>518.29 m to 518.44 m - x-cut pale ol to bg (10Y 6/2 - 10YR 7/4) v.f.g dol-Carb vn. v.f.g. anh to suh py diss throughout.</p> <p>519.50 m to 521.80 m - poorly healed brittle fracs running parallel TCA, possibly induced by hydro brc.</p> <p>CPS: min: 230 max: 520 avg: 320</p> <p><u>fl dol-Carb</u></p> <p>colour: mod y-br, lt ol-gy (10YR 5/4, 5Y 6/1, (5Y 5/2))</p> <p>mineralogy: ~95-98% v.f.g. to f.g. anh to suh dol, 2-5% v.f.g. to f.g. anh fl, trace ~3% v.f.g. to f.g. anh to euh amp, trace tlc, py, v.f.g. to f.g. pale r-br (10R 5/4) anh frac-rel silicons min → fl alt by qtz?, chl, qtz, amp.</p> <p>528.50 to 547.20 m - v.f.g. to f.g. anh to suh intergrown mod y-br, lt ol gy and lt gy dol. sparse to common fracs over interval; py, chl, amp, tlc are frac-rel and comprise typical infill ± fl and dol and qtz occurs as wkly perv wispy patches/bnds and in sparse x-cut fl-qtz vnlets. rare x-cut v.f.g. dol-Carb vns. healed fracs with gy-b-gr (5BG 5/2) colouration. usually have associated v.f.g. to f.g. dusky b-gr (5BG 3/2) amp → arfedsonite?</p> | 518.29 m to 518.44 m - x-cut dol-Carb vn, 28° TCA | | | |
| | | | | | ctc at 528.50 m grad, ↑ fl, text change, colour lightens. 529.00 m bndg 45° TCA. | 528.50 m to 547.20 m - mottled to bnded, locly ctc | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 529.11 m to 530.00 m - frac undulating along CA, some open surfaces appear slicked along plane of x-cut dol-Carb vn, broken core → mechanical, growth of f.g. py cubes on frac surface. | 530.50 m - bndg 50° TCA | | 529.00 | 280 |
| | | | | 530.93 m to 531.86 m - mm x-cut fl-qtz vnlets, no preferential orientation. | 533.00 m - bndg 47° TCA | | 532.00 | 320 |
| | | | | 535.65 m to 536.12 m - v.f.g. to f.g. pale r-br anh min intergrown with fl. increased abundance of pale r-br min where fl abnt is ↓, fl alt? | 534.75 m - bndg 53° TCA | | 535.00 | 290 |
| | | | | 536.18 m to 536.21 m - x-cut v.f.g. pale ol (10Y 6/2) dol-Carb vn. | 536.18 m to 536.21 m - x- cut dol-Carb vn, 51° TCA | prox to 536.00 m | 538.00 | 285 |
| | | | | 536.33 m to 537.19 m - ~2-5 mm pale ol (10Y 6/2) v.f.g. dol-Carb vns undulating along CA, possibly alt halo around qtz vnlets, fl mineralization along margins. | 542.25 m to 542.42 m - x- cutting dol- Carb vn 25° TCA | | 541.00 | 300 |
| | | | | 538.50 m to 547.20 m - gradually decreasing fl. | 542.50 m to 542.70 m - x- cut qtz vnlets/tension gastes, 40-45° TCA | | 544.00 | 250 |
| | | | | 538.50 m to 540.17 m - v.f.g. to f.g. pale r-br min occuring with qtz vnlets, trace fl over interval. | | | 547.00 | 240 |
| | | | | 542.25 m to 542.42 m - x-cut v.f.g. lt gy dol-Carb vn with py and f.g. suh dusky b-gr (5BG 3/2) amp → arfedserite? | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|-----------------------|---------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| 547.20 | 565.55 | dol-Carb | | <p>544.32 m to 544.60 m - qtz vnlets x-cut fl patch, pale r-br alt? min intergrown with fl proximal to qtz vnlets.</p> <p>CPS: min: 220 max: 380 avg: 300</p> <p><u>dol-Carb</u></p> <p>colour: lt ol-gy, mod y-br (5Y 6/1, (5Y 5/2), 10YR 5/4)</p> <p>mineralogy: ~95%-98% v.f.g. to f.g. anh to suh dol, trace ~2% v.f.g. to f.g. anh to suh amp, trace ~1% v.f.g. to f.g. anh fl, trace ~1% v.f.g. to f.g. anh pale r-br (10R 5/4) min → fl alt?, trace ~1% v.f.g. anh qtz, trace py, chl, tlc.</p> <p>547.20 m to 565.55 m - combination of v.f.g. to f.g. mod y-br, lt ol-gy, and lt gy dol. fl occurs as loclcd wkly perv wispy patches and bnds often flushed by qtz generating an pale p (5P 6/2) colouration. fl is usually accompanies by v.f.g. to f.g. anh r-br alt? min proximal to qtz vnlets. py, amp, and chl are frac-rel imparting gy-gr (10GY 5/2) hue to core, dusky gr (5G 3/2) where amp is loclcy abnt. fl also occurs as sparse vnlets ± qtz. x-cut qtz vns common over interval; sparse x-cut dol-Carb vns. healed fracs sparse to loclcy abnt. mottled to bnded with local hydro brc, ctc; psd-brc.</p> <p>548.99 m to 549.10 m - x-cut dol-Carb vn, y-gy (5Y 7/2) v.f.g.</p> <p>552.74 m to 553.00 m - x-cut fl-qtz vnlets ~35° TCA.</p> <p>549.48 m to 549.63 m - loclcy abnt amp, tlc, py, and chl in perv frac network.</p> <p>552.74 m to 553.00 m - x-cut fl qtz vnlets.</p> | <p>ctc at 547.20 m - grad ↓ fl</p> <p>548.99 m to 549.10 m - x-cut dol-Carb vn 33° TCA</p> | <p>prox to 558.00</p> | <p>550.00</p> | <p>280</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 565.55 | 574.20 | dol-Carb | | 554.38 m to 558.25 m - bnds and lenses of hydrothermal brec. Hydro brc typically consists of pale ol (10Y 6/2) dol-Carb clsts with epitaxial itsl f.g. to c.g. ang to euh w (N9) dol, fl is minor constituent of brc typically an itsl void fill. hydro brc also contains v.f.g. to f.g. anh to suh lt br min (5YR 5/6) mon? greatest abundance ~7% in hydro brc bnd from 557.99 m to 558.07 m. qtz also occurs as an itsl void filling min. hydro brc typically has sharp ctc's with host dol-Carb. hydro brcs occur at 554.38 m to 554.86 m, 556.94 m to 557.05 m , 557.31 m to 558.25 m. | | | 553.00 | 300 |
| | | | | 559.89 m to 561.84 m - abnt frags with amp, tlc, py, chl, fl. | | | 556.00 | 280 |
| | | | | 564.70 m to 565.55 m - increasing qtz, core has gy-gr hue. | ctc at 565.55 m grad ↑ qtz, text change | 559.00 | 290 | |
| | | | | 557.31 m to 558.25 m - v.f.g. to f.g. anh to suh frac-rel lt br mon in hydro brc. | | | 562.00 | 290 |
| | | | | ctc at 557.31 m sharp 50° TCA, ctc at 557.86 m sharp 80° TCA. wk undulation. | | | | |
| | | | | 559.50 m to 559.85 m - v.f.g. pale r-br min, locly intergrown with fl, fl alt? | 564.45 m bndg → 43° TCA | 565.00 | 260 | |
| | | | | CPS: min: 240 max: 400 avg: 320 | | | | |
| | | | | <u>qtz-rich dol-Carb</u> | | | | |
| | | | | colour: gy, gy-gr (N5, 10GY 5/2) | | | | |
| | | | | mineralogy: ~96-98% v.f.g. to rare m.g. anh to rare euh dol, 1-3% v.f.g. anh qtz, trace -1% v.f.g. to f.g. anh to euh py, trace po, mag, ilm, fl, bsn, chl, amp | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|-------------------------------------|----------------|---------------|--------|-----|
| | | | | | | | DEPTH (m) | CPS | |
| 574.20 | 581.12 | dol-Carb | | 565.55 m to 574.20 m - combinations of mtx and clst sup brcs with ctc bnds and psd brc. mtx is v.v.f.g. to v.f.g. gy (N5) dol while clsts are f.g. to c.g. ang to sub-rnd. (N8) to y-gy (5Y 8/1) v.f.g. to f.g. anh to suh dol-Carb. interval frequently x-cut by v.f.g. translucent qtz vnlets. is v. rare occurring proximal to upper ctc. v.v.f.g. gr-blk (5GY 2/1) sul stringers and vnlets with proximal py and po are common to abnt. mag occurs as v.f.g. to f.g. diss dk gy (N3) patches ± suls. x-cut dol-Carb vns v. rare. brcd with ctc bnds and psd-brc. | 566.18 m - x-cut qtz vnlet, 42° TCA | prox to up ctc | | | |
| | | | | 568.95 m to 569.20 m - series of x-cut qtz vnlets. x-cut qtz vnlets ~45° TCA. | | | 568.00 | 210 | |
| | | | | 569.03 m - x-cut sul vnlet with m.g. sub-met br-blk (5YR 2/1) min. H=~3.5, lt br streak, sulphur odour in min with HCL → sph, iron rich occurring with po. | 569.50 m shear bndg , 45° TCA | | | | |
| | | | | 569.46 m to 569.64 m - bnds of m.g. "porphyry" dol-Carb, f.g. to m.g. anh to euh v.light gy (N8) dol "phenes" with itsl v.f.g. red (5R 4/6) bsn? | | | | | |
| | | | | 570.14 m to 570.68 m - x-cut qtz vnlets ~43° TCA. | | | | | |
| | | | | 571.23 m to 571.42 m - patch of v.v.f.g. to v.f.g. dk gy (N3) mag, lt br (5YR 5/6) rutilated qtz? astrophylite? | | | | | |
| | | | | 572.96 m to 574.20 m - *py/mag dol-Carb* no text or colour change, incresed abundance of mag-sul stringers. | | | | 572.00 | 200 |
| | | | | CPS: min: 170 max: 280 avg: 240 | | | | | |
| | | | | <u>dol-Carb</u> | | | | | |
| | | | | colour: gy-og, lt gy (10YR 7/4, N7) | | | | | |
| | | | | mineralogy: ~97% v.f.g. to rare m.g. anh to suh dol, 1-3% v.f.g. anh qtz, trace py, po, bsn/pprs, chl | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 581.12 | 593.75 | dol-Carb | | 574.20 m to 581.12 m - ctc shear bnded dol-Carb. ltr gy-og to y-gy (10YR 7/4, 5Y 8/1) dol-Carb bnds typically proximal x-cut v.f.g. anh translucent qtz vnlets. suls are frac-rel occuring proximal to v.v.f.g. gr-blk (5GY 2/1) stringers ± chl. v.f.g. mod r (5R 4/6) bsn/prs is also frac-rel and sparse throughout. v. rare x-cut dol-Carb vns, common x-cut v.f.g. anh translucent qtz vnlets with similar orientation. | shear bndg: 576.50 m - 55° TCA, 578.25 m - 55° TCA, 580.50 m - 53° TCA | 574.20 m to 581.12 m - ctc, shear bnded | 575.00 | 190 |
| | | | | 575.50 m to 576.52 m - x-cut qtz vnlets dominantly ~33° TCA, few 40-50° TCA. | | | | |
| | | | | 577.88 m to 578.14 m - frac-rel v.f.g. salmon pk (10R 6/6) min, wkly effervesces with HCL, bsn/prs? | 579.65 m to 579.92 m - x-cut qtz vnlets ~30° TCA | prox to 578.00 m | 578.00 | 220 |
| | | | | 580.46 m to 580.68 m - x-cut v.f.g. (N8) dol-Carb vn ~27° TCA. ctc at 581.12 m colour change, uniformity of shear bndg ↑. | | | 581.00 | 180 |
| | | | | CPS: min: 160 max: 250 avg: 200 | | | | |
| | | | | <u>shear bnded ctc dol-Carb</u> | | | | |
| | | | | colour: gy (N7, N6) | | | | |
| | | | | mineralogy: ~97% v.f.g. to sparse m.g. anh to suh dol, 1% v.f.g. anh qtz, 1% v.f.g. anh bsn/prs, trace - 1% v.f.g. to f.g. anh to suh py, trace po, chl, bio/phl. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 581.12 m -593.75 m - shear bnded ctc dol-Carb; dol grains are typically v. lt to lt gy in colour (N8-N7) with variable degrees of rounding. dkr gy (N6) v.f.g. dol with diss or frac-rel v.f.g. mod r (5R 4/6) bsn/prs comprise mtx. suls are frac-rel + typically aligned with shear bndg. x-cut dol-Carb vns have increased abundance relative to overlying unit. sparse x-cut v.f.g. anh translucent qtz vnlets. shear bndg consistent, regularly 50° TCA. shear bndg: 582.00 m - 48° TCA, 584.00 m - 50° TCA, 586.00 m - 50° TCA. | | prox to SZ | | |
| | | | | 582.44 m to 582.61 m - irregular x-cut dol-Carb vn? possibly alt halo around underlying x-cut qtz vnlets. | | | | |
| | | | | 584.68 m to 584.77 m - v.c.g. sub-rnd entrained y-gy (5Y 8/1) v.f.g. anh dol-Carb clst. | | | 584.00 | 170 |
| | | | | 585.08 m - x-cut v.f.g. lt ol-gy dol-Carb vn. 35° TCA | | | | |
| | | | | 589.47 m to 589.50 m - x-cut v.f.g. lt ol-gy (5Y 6/1) dol-Carb vn with v.f.g. r (5R 4/6) bsn/prs mineralization, x-cut by later qtz vn/ tension gash. | 589.49 m - x-cut dol-Carb vn, 45° TCA | | 587.00 | 170 |
| | | | | 590.28 m to 590.53 m - x-cut qtz vnlets with f.g. suh to euh (acicular, reet prism) salmon pk (10R 6/6) bsn/prs? qtz vn lenses throughout interval. | 590.67 m to 590.83 m - x-cut qtz vnlets 25° TCA | | 590.00 | 190 |
| | | | | 590.67 m to 590.83 m - x-cut qtz vnlets with f.g. salmon pk cc → effervesces readily with HCL, different habit from salmon pk in 590.28 m to 590.53 m. | | | | |
| | | | | 592.40 m to 593.00 m - ductile SZ, common natural fracs with sks and skl, SZ occupied by v.f.g. to f.g. sul bearing phl-ite → 45% v.f.g. anh to suh phl, 25% v.f.g. anh dol, 15% v.v.f.g. to v.f.g. cc, 15% v.v.f.g. to f.g. suls → dominantly py, trace molybdenite. SZ also contains mylonitic dol-Carb. 592.40 m - up ctc SZ → 27° TCA sharp LW ctc at 593 m. sharp 47° TCA 592.45 m - cc sks 20° TCA $\chi = 73^\circ$ | | | 593.00 | 220 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--------------------------------------|---------|---------------|--------------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 593.00 m to 593.75 m - dol-Carb below SZ → same mineralogy as above but shear bndg is much less apparent, unit appears as a f.g. mass. 593.55 m - mass sul vn, dominantly py, minor po. CPS: min: 160 max: 240 avg: 200 EOH | 593.55 m - mass sul vn 45° TCA | | | ctc at 593.75 m |

Handwritten signature and notes: OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536460.27 | Drill Company: Cartwright Drilling Ltd. | Date Started: Mar 12, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312361.75 | Rig Type: CDI 500 | Date Completed: Mar 16, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 15.24 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 323.09 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|----------|--------|-----------|------------------|---|---------------------------------|--------------------------------|---------------|-------|-----|
| | | | | | | | DEPTH (m) | CPS | |
| 0.00 | 7.06 | OVB | | <u>Ovb</u> | | | | | |
| 7.06 | 15.32 | dol-Carb | | <p><u>ap dol-Carb</u> colour: 10Y 8/2 N8. model mineralogy: dol: 75%, m.g. suh, ap: 15%, v.f.g., anh, cc: trace, v.f.g., an, bsn/prs: trace, v.f.g., anh, fl: trace, v.f.g., anh, qtz: trace, f.g., anh.</p> <p>altn: 7.06 m to 16.50 m - 5G 4/1 chl + 5YR 5/6 frac rel 40-60%.</p> <p>7.06 m to 10.08 m - ~75% <10 cm, @7.10m → lake sediment.</p> <p>7.06 m to 8.49 m - weak fol/bndg between alternating v.f.g. 5 P 2/2 fl ~5% locky + f.g. to m.g. - 10Y 8/2 dol +/- v.f.g. ap + cc.</p> <p>8.49 m to 8.73 m: f.g. 5Y 7/2 qtz stockwork x-cut Carb, hem?/lim? altn occurs with qtz vnlets @~8.80 m.</p> <p>8.73 m to 13.06 m - f.g. to m.g. anh to suh dol pbles in v.f.g. dol, ap mtx sense of shr ~ 135°-145° TCA, common x-cut hem/lim frags.</p> <p>altn 8.80 m to 15.32 m - v.f.g., 5R 4/6, frac rel lim?</p> <p>13.06 m to 15.32 m - f.g. to m.g. anh to euh N8 dol pbles in v.f.g. dol, ap, cc mtx.</p> | 8.00 m → work fol ~30°-40° TCA. | 7.06 m to 8.49 m wkly fol/bnd. | 8.00 | 118 | |
| | | | | | | 8.49 m to 13.06 m brcd. | | 11.00 | 122 |
| | | | | | | | | 14.00 | 115 |
| 15.32 | 24.91 | dol-Carb | | <u>dol-Carb</u> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|--|---|---|
| | | | | | | | DEPTH (m) | CPS |
| 24.91 | 34.00 | dol-Carb | | <p>colour: 5Y 7/2, 5Y 7/6.</p> <p>model mineralogy: dol 99% f.g., anh. ap: 1%, v.f.g., anh. cc: trace, v.v.f.g., anh. fl: trace, v.f.g., anh. qtz: trace, v.f.g., anh.</p> <p>15.32 m to 24.91 m - v.f.g., 5R 4/6, frac rel lim/hem.</p> <p>15.32 m to 25.14 m - anh to suh, f.g. to m.g., N8 dol pbls in v.v.f.g to f.g. 5Y 7/2, 5Y 7/6 dol mtx.</p> <p>@~16.00 m - two generations of dol-Carb vns: early: 5Y 5/2 v.v.f.g., dol-Carb later: 10Y R 6/2 v.v.f.g. dol-Carb, v.f.g. 5R 4/6 lim/hem altn. preferentially occurs along the ctc of the two generations, both generations are x-cut by lim/hem fracs.</p> <p>19.50 m to ~21.00 m - x-cut 5Y 5/2 dol-Carb vns, largest @~20.00 m → 25 cm undulating along CA → generation x-cut by lim/hem fracs.</p> <p>ap dol-Carb</p> <p>colour: 5Y 8/4, 5GY 6/1.</p> <p>model mineralogy: dol: 90%, f.g., anh. ap: 10%, v.f.g., anh. cc: trace, v.f.g., anh. fl: trace, v.f.g., anh. bsn/prs: traced, v.f.g., anh. py: trace, f.g., suh.</p> <p>altn 25.14 m to 34.00 m v.f.g 5R 4/6 lim/hem frac to rel.</p> <p>25.14 m to 34.16 m - f.g. to m.g. anh to suh 5Y 8/1 dol pbls in v.v.f.g. to f.g. 5Y 8/4, 5GY 6/1 ap dol mtx, x-cut lim/hem fracs throughout interval + later stage x-cut qtz vnlets.</p> <p>33.11 m to 33.35 m - x-cut dol-Carb vn → v.v.f.g. 5Y 7/2, 5Y 6/4 dol-Carb.</p> <p>33.35 m to 33.60 m - clst supported brc → m.g. to c.g. 5Y 8/1 anh dol pbls x-cut by lim/hem fracs + qtz vnlets.</p> | <p>CTC @15.32 m grad ↓ ap.</p> <p>ctc @24.91 grad ↑ ap.</p> <p>33.20 m, 33.80 m - dol-Carb dykes → ~28° TCA.</p> | <p>15.32 m to 24.91 m - brc.</p> <p>25.14 m to 34.00 m - brod.</p> | <p>17.00</p> <p>20.00</p> <p>23.00</p> <p>26.00</p> <p>29.00</p> <p>32.00</p> | <p>133</p> <p>115</p> <p>131</p> <p>132</p> <p>119</p> <p>130</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|--|----------------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 34.00 | 42.24 | dol-Carb | | <p>33.75 m to 33.89 m - 5Y 7/2, 5Y 6/4 x-cut dol-Carb vn.</p> <p><u>dol-Carb</u> colour: 5Y 7/2, 5Y 7/6. model mineralogy: dol: 97%, f.g., anh. ap: 3%, v.f.g., anh. cc: trace, v.v.f.g., anh. bsn/prs: trace, v.f.g., anh. py: trace, f.g., suh. qtz: trac, v.f.g., anh. ukn: trace, v.f.g., suh. chl: trace, v.f.g., anh.</p> <p>34.16 m to 34.63 m - clst supported brc, f.g. to m.g. anh to suh 5Y 8/1 pbls + m.g. to v.c.g. clsts of ang to sub-rnd dol-Carb, itsl filled with 5Y 7/2, 5Y 6/4 v.v.f.g. to f.g. dol.</p> <p>34.63 m to 34.90 m - altd + brcd late stage dol-Carb vn.</p> <p>34.90 m to 42.24 m - mtx supported brc/ctsc; f.g. to m.g. 5Y 8/1 anh to suh dol pbls in v.v.f.g. to v.f.g. 5Y 7/2, 5Y 6/4 mtx, common x-cut late stage v.v.f.g. 5Y 6/4 dol-Carb vns, decrease in frac rel lim/hem altn, increase in frac rel py ± chl, ukn occurs as a frac infill → v.f.g. suh 5BG 6/6 (turquoise), no effervescence with HCl → fl?, chl,? 37.61 m to 37.66 m → 5Y 6/4 dol-Carb vn.</p> | <p>ctc @34.00 ↓ ap.</p> <p>37.64 m - dol-Carb dykelet ~25° TCA.</p> <p>39.68 m - dol-Carb dykelet ~25° TCA. 41.00 m → fol ~26° TCA.</p> | <p>34.16 m to 42.24 m - brcd.</p> <p>35.00</p> <p>38.00</p> <p>41.00</p> | <p>147</p> <p>143</p> <p>147</p> | |
| 42.24 | 73.43 | dol-Carb | | <p><u>ap dol-Carb</u> colour: 5Y 7/2, 5Y 8/4. model mineralogy: dol: 95%, f.g., anh. ap: 5% v.f.g., anh. cc: trace, v.v.f.g., anh. ukn: trace, v.f.g., suh →5 5BG 6/6. py: trace, f.g. suh. bsn prs: trace, v.f.g. anh. fl: trace, v.f.g., anh. qtz: trace, v.f.g., anh.</p> <p>42.24 m to 73.43 m - v.f.g. lim/hem 5R 4/6, frac rel, sparse.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 42.24 m to 73.43 m - f.g. to m.g. anh to euh 5Y 8/1 dol pbls with v.v.f.g. to v.f.g. 5Y 7/2 anh cc + ap, x-cut py ± chl vnlets, later stage x-cut qtz vnlets, sparse x-cut 5Y 5/2 dol-Carb vns. wkly fol mottled pseudo brc shrd pblc? | ctc @42.24 m grad ↑ ap. | | | |
| | | | | 42.79 m to 43.16 m - py + chl vns at shallow angle TCA, ~40% v.f.g. py over length of vn. | | | 44.00 | 133 |
| | | | | @46.04 m - increasing prevalence of ukn as frac fill. | | | | |
| | | | | 47.00 m to 47.15 m - 1-2% v.f.g. frac rel bsn/prs. | | | 47.00 | 149 |
| | | | | 49.50 m to 49.61 m - 5Y 5/2 v.v.f.g. to v.f.g. dol-Carb vn. | 49.55 m - dol- Carb dyke, 17° TCA. | | | |
| | | | | @50.22 m - m.g. suh, 5Y 2/1, min, 10R 3/4 streak, H → 5.0 ~5.5 → altered py? | | | 50.00 | 148 |
| | | | | 51.92 m to 53.00 m - patches of diss fl → overprinted. | | | 53.00 | 121 |
| | | | | 53.89 m to 56.45 m - py + chl vnlets @ shallow angle TCA. | | | 56.00 | 136 |
| | | | | 59.09 m to 59.40 m - lens with abnt py + chl +/- talc vnlets . | | | 59.00 | 127 |
| | | | | 60.30 m to 60.40 m - x-cut dol-Carb vn v.f.g. | 60.35 m - dol- Carb dyke, ~19° TCA. | | | |
| | | | | 60.40 m to 60.60 m - lens with abnt py + chl ± chl ± talc vnlets. | | | 62.00 | 125 |
| | | | | 62.48 m to 62.57 m - x-cut dol-Carb vn, v.f.g. | | | 65.00 | 128 |
| | | | | 65.95 m to 73.44 m - subtle fol often running at shallow angles TCA, highlighted by alternating bnds of dol and vnlets of py + chl. | 65.25 m - fold closure C7, ax ~90° TCA. | | 68.00 | 126 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------------------------|-----------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 73.43 | 79.20 | dol-Carb | | <p>@70.15 m - ~5 mm x-cut 5Y 7/2, 5R 2/6 v.f.g. dol vn with fl + bsn.</p> <p>70.76 m to 71.33 m - late stage x-cut fl qtz vnlets typically oriented about 60° TCA.</p> <p>72.33 m to 73.43 m - x-cut fl - qtz vnlets (tension gashes?), typically ~50°-60° TCA.</p> <p>ap dol-Carb colour: 10 YR 6/2, 5Y 8/1. model mineralogy: 85-90% v.f.g. to rare c.g., anh to rare euh dol, 10-15% v.v.f.g. to v.f.g. anh ap, 1-2% v.f.g. anh bsn prs, traced fl, py, qtz.</p> <p>73.43 to 79.20 m - v.f.g. 10R 4/6 bsn/prs 1-2% frac rel.</p> <p>73.43 m to 79.20 m - ap occurs as locally perv v.v.f.g. to v.f.g. diss bnds. brcd zone, abnt healed fracs, qtz rich, healed fault zone?</p> <p>73.43 m to 75.05 m - clst supported brc → dominantly ang clsts of 5Y 8/1 (y-gy) ap dol-Carb with common m.g. anh to euh N8 (lt gy) pbls. @74 m CPS measurements switch to in-box readings.</p> <p>75.05 m to 76.20 m - ctsc? f.g. anh to suh 5Y 8/1 dol pbls in v.f.g. 10YR 6/2 mtx, wk fol ~20° TCA, x-cut fl qtz vns.</p> <p>@75.69 m - N4 py - dol vn.</p> | <p>70.76 m to 71.33 m - fl - qtz vns ~60° TCA.</p> <p>72.33 m to 73.43 m - fl - qtz vns 60° TCA.</p> <p>ctc @73.43 m - sharp → brcd zone, ↑ ap.</p> | <p>71.00</p> <p>74.00</p> | <p>114</p> <p>147</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|--|---------------------|--|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 90.95 | 101.05 | dol-Carb | | 85.12 m to 89.12 m - pblc brc → f.g. to m.g. anh to euh 5Y 8/1 dol pbls, wk bndg throughout, locl bnds are clst supported brcs. | | 85.12 m to 89.12 m - pblc brc clst supported. | | |
| | | | | 88.48 m to 88.75 m - v.v.f.g. 5Y 7/2, wkly undulating dol-Carb dykelet. | | | | |
| | | | | 89.12m to 90.95 m - v.f.g. to m.g. anh to euh (equant rhombs) of N8 (lt gy) dol in N5 v.v.f.g. to v.f.g. ap-dol mtx, wkly bnded. clst supported pblc brc. | 90.12 m - bndg 20° TCA | | | |
| | | | | <u>ap dol-Carb</u> colour: 5Y 8/1, 5R 4/6. model mineralogy: ~70% v.f.g. to m.g. anh to euh (equant rhombs) dol 25-30% v.v.f.g. to v.f.g. anh ap, 3-4% v.f.g. anh bsn/prs, trace qtz, py. | | | | |
| | | | | 90.95 m to 101.05 m - v.f.g. 5R 4/6 anh bsn/ prs, moderatly perv. | | | 92.00 | 169 |
| | | | | 90.95 m to 101.05 m - f.g. to m.g. anh to rare euh (equant rhombs) 5Y 8/1 dol in v.v.f.g. to v.f.g. 5Y 7/2 ap - dol mtx, v.f.g. anh 5R 4/6 prs/bsn pervades throughout interval. | ctc @90.95 m - grad ↑ ap, bsn/prs, text change. | 90.95 to 101.05 m - wkly bnd mtx supported brc. | 95.00 | 149 |
| | | @94.00 m - x-cut 5Y 6/1 (lt ol-gy) v.v.f.g. dol-Carb dykelet, ~15° TCA. | | | ~94.00 m - dol-Carb dyke let ~15° TCA. | | | |
| | | 98.10 m to 98.28 m - dfmd 5GY 4/1 (dk gr-gy) v.f.g. dol-Carb vn, sparse 1-3 mm vugs proximal to margins. | | | ~95.00 m - subtle bndg ~12° TCA. | | 98.00 | 160 |
| | | @100.29 m - ~2 cm vuggy patch with v.f.g. N3 (dk gy) min, no effervescence with HCl, H = 3.0-4.0 → suls? | | | ~101.00 m - bndg 35° TCA. | | 101.00 | 146 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 101.05 | 104.82 | dol-Carb | | <p>ap dol-Carb colour: 5Y 6/1, 5G 4/1. model mineralogy: 70-75% v.f.g. to m.g. anh to euh (equant rhombs) dol, v.v.f.g. to v.f.g. anh ap 25-30%, trace bsn/prs, bio? chl?, qtz.</p> <p>101.05 m to 103.29 m - N8 f.g. to m.g. anh to euh dol pbls in v.v.f.g. to f.g. 5Y 6/1 (lt ol-gy), 5GY 2/1 (gr-blk) mtx, later stage x-cut vns → composed of qtz, suls?, (py, and bio/chl? → 5Y 4/1 (ol-gy) phyllosilicate, H = 2.0-3.0.</p> <p>103.29 m to 104.82 m - f.g. 5Y 7/2 (y-gy) dol, appears mass, rare N8 f.g. to m.g. anh to euh (equant rhombs) dol pbls.</p> | ctc @101.05 m grad ↓ bsn/prs. | 101.05 m to 103.29 m - clst supported brc. | 104.00 | 164 |
| 104.82 | 124.34 | dol-Carb | | <p>ap dol-Carb colour: 5Y 6/1, 5R 4/6. model mineralogy: ~75%-80% v.f.g. to m.g. anh to sparse euh (equant rhombs) dol, v.v.f.g. to v.f.g. anh ap as diss perv bnds 15%-20%, 1-5% v.f.g. anh bsn/prs diss over interval → locly * bsn ap dol-Carb*, trace qtz, py, fl.</p> <p>104.82 m to 124.34 m - diss/perv v.f.g. 5R 4/6 bsn/prs.</p> <p>104.82 m to 124.34 m - v.v.f.g. to v.f.g. 5Y 6/1 (lt ol) ap + dol with sparse to common anh to euh N8, 5Y 8/1 dol pbls, appearance ranges from mass where dol pbls are rare to mottled mtx supported brc, bsn/prs diss throughout interval with concentrated perv patches, bsn/prs mineralization highlights subtle bndg, rare x-cut qtz vns.</p> <p>112.44 m to 113.00 m - abnt fracs throughout core, infill consists of v.f.g. to f.g. suh py ± chl and v.v.f.g. suls.</p> | ctc @104.82 m grad ↑ bsn/prs. | 104.82 m to 124.34 m - mottled mtx supported brc. | 107.00 | 181 |
| | | | | | 110.50 m - suh the bndg → ~31° TCA. | | 110.00 | 166 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| 124.34 | 131.75 | dol-Carb | | 113.00 m to 114.06m - decrease in bsn/prs, ~3% v.f.g. suh py. | 114.65 m - subtle bndg → 28° TCA. | | 113.00 | 184 | |
| | | | | @118.24 m - x-cut qtz vn displacing bsn ap dol bnd. | | | | | |
| | | | | 118.00 m to 119.50 m - bsn ap dol-Carb 5-7% perv v.f.g. bsn/prs. | 115.43 m - fold closure ax ~90° TCA C8. | | 116.00 | 149 | |
| | | | | 119.82 m to 120.51 m - N9 f.g. to rare c.g. anh to euh dol pbls in v.v.f.g. to f.g. ap dol, trace qtz, rare x-cut qtz vn. | 116.50 m - subtle bndg ~20° TCA. | | 119.00 | 140 | |
| | | | | 121.92 to 122.12 m - x-cut 5Y 6/1 v.v.f.g. dol-Carb vn ~18° TCA. | 119.00 m - subtle bndg 25° TCA. | | 122.00 | 205 | |
| | | | | 123.19 m to 123.94 m - lense of 5GY 6/1, 5G 4/1 clst supported brc, f.g. to m.g. anh to suh N8 dol pbls, frags infilled by v.f.g. py + v.v.f.g. to v.f.g. phyllosilicate? 5Y 4/1, vitreous lustre H= ~2.0-2.5 chl? bio? phl? | 121.92 m - dol- Carb vn ~18° TCA. | | | | |
| | | | | <u>ap dol-Carb</u> colour: 5GY 6/1, 5Y 8/1. model mineralogy: 85-90% v.f.g. to m.g. anh to euh N8 dol, 10 -15% v.v.f.g. to v.f.g. anh ap, 3-5% v.f.g. suh chl?, trace qtz,bsn/prs, py, cc. alt prlc → frac rel chl. 40-60%. | 124.00 m - subtle bndg 20° TCA. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 124.34 m to 127.62 m - f.g. to m.g. anh to suh N8 dol pbls with v.v.f.g. to v.f.g. 5Y 6/1 dol + ap, frags infilled by v.f.g. chl ± v.f.g. py, rare x-cut qtz vns. | ctc @124.34 m sharp ~20° TCA | 124.34 m to 127.62 m - clst supported brc. | 125.00 | 200 |
| | | | | 127.62 m to 127.62 m - 5Y 8/1 v.f.g. to m.g. anh to suh ap + dol, mass appearance locly bnded with bnds of clst supported brc (124.34 m to 127.62 m) trace diss v.f.g. 5R 4/6 bsn/prs mineralization occurs over interval. | | 127.62 m to 131.75 m - mass. | 128.00 | 214 |
| | | | | @130.29 m - met N6 min on frac surface, v.f.g., soft H = ~3.0 occurs with v.f.g. 5R 6/6 anh min → met could be specular hem? | ctc @131.75 m sharp 32° TCA, very wkly undulating. | | 131.00 | 190 |
| 131.75 | 136.86 | dol-Carb | | <u>cc ap dol-Carb</u> Colour: 5y 7/2, 5Y 5/2 model mineralogy: ~85% v.f.g. to m.g. anh to suh dol, ~10% v.v.f.g. to v.f.g. anh ap, ~5% v.v.f.g. N9 anh cc, trace qtz, bsn, bio, py, fl. | | | | |
| | | | | 131.75 m to 136.86 m - v.v.f.g. to v.f.g. 5Y 5/2 (lt ol-gy) ap + dol mtx with f.g. to m.g. anh to suh N8 dol pbls + m.g. to v.c.g. clsts of 5Y 8/1 ang ap dol-Carb, rare x-cut qtz vns. sparse x-cut 10Y 6/2 dol-Carb vns, cc occurs along + proximal to frags ± v. rare suh fl x-cut dol-Carb vns @ → 133.23 m, 133.61 m, 134.94 m. | x-cut dol-Carb vns ~40° to 45° TCA. CTC @136.86 m grad ↑ bsn/prs. | 131.75 m to 136.86 m brcd | 134.00 | 230 |
| 136.86 | 142.30 | dol-Carb | | <u>ap dol-Carb</u> colour: 5Y 7/2, 10YR 6/2. model mineralogy: 90-95% v.f.g. to m.g. anh to euh dol, ~5% v.v.f.g. to v.f.g. anh ap as diss perv bnds, ~3-5% v.f.g. anh bsn/prs, trace qtz cc, py, fl. 136.86 m to 142.30 m - diss/perv, bsn/prs. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 142.30 | 146.00 | dol-Carb | | 136.86 m to 140.86 m - ol-gy to lt tan mtx supported brc, dol pbls anh to rare euh, mtx consist of v.v.f.g. to v.f.g. ap + dol, localized bndg, generally appears mottled, abnt infilled fracs. | | 136.86 m to 142.30 m - brcd. | 137.00 | 211 |
| | | | | @~137.00 m - fl vns with cc. | | | 140.00 | 198 |
| | | | | 140.86 m to 142.30 m - clst supported brc grading into a mtx supported brc/mass. clsts f.g. to c.g. N8 anh to suh dol in v.v.f.g. to v.f.g. ol-gy ap + dol, abnt fracs infilled by (bio/chl + py ± cc). | | | | |
| | | | | <u>dol-Carb</u> colour: 5Y 6/1, 10Y 6/2 modal mineralogy: 85-90% v.f.g.to m.g. anh to suh dol, 5-10% v.v.f.g. anh cc, ~5% v.f.g. bio, ~1-2% v.v.f.g. anh ap as loclized patches, trace bsn/prs, qtz, py. altn → 142.30 to 146.00 m - prlc frac related. | | | | |
| 146.00 | 156.47 | dol-Carb | | <u>bsn/prs dol-Carb</u> colour: 10YR 6/2, 10R 6/2. model mineralogy: 85-90% v.f.g. to m.g. anh to euh dol, 2-10% v.f.g. anh bsn/prs, 1-2% v.v.f.g. ap, trace qtz, fl, py. 146.00 m to 156.47 m - perv v.f.g. bsn/prs. | | 146.00 | 175 | |
| | | | | 142.30 m to 146.00 m - f.g. to m.g. anh to suh N8 dol pbls with v.f.g. 5Y 2/1 suh bio ± v.f.g. suh py occupying itsl spaces, rare x-cut qtz vns, bsn/pres typically occurs as isolate aggregates usually ~2 mm rarely accompanied by f.g. fl, cc occurs proximal to fracs, texturally unit is a clst supported/psd brc. | ctc @142.30 m grad ↑ ap. | | | |
| | | | | | | ctc @146.00 m grad → text changes. increasing bsn/prs. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|--------|-----------|------------------|--|--|--------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 156.47 | 166.92 | dol-Carb | | 146.00 m to 153.00 m - f.g. to m.g. anh to euh N8 (lt gy) dol pbls in v.v.f.g. to v.f.g. 10 YR 6/2 (pale y-br) dol ± ap, v.f.g. 5R 4/6 (mod r) perv throughout interval, locally appears frac related, sparse mm fl filled fracs, rare x-cut dol-Carb vns. | | 146.00 m to 153.00 m - psd brcd. | 149.00 | 200 |
| | | | | @146.37 m - x-cut dol-Carb vn, ~45° TCA, 5Y 7/2 v.f.g. | | | | |
| | | | | 147.07 m - vuggy patch, large 1 cm vug, partially infilled by py - bsn/prs/fl. | | | | |
| | | | | 148.48 m - x-cut 10R 5/4 (pale br-r) bsn/prs - dol-Carb vn, ~60° TCA. | | | | |
| | | | | 151.52 m to 151.86 m - dk bnd in Carb, 10-20% v.f.g. py + sul. | | 152.00 | 225 | |
| | | | | 153.00 m to 153.50 m - clst supported brc, f.g. to m.g. anh to suh N8 dol pbls, itsl infill composed of v.v.f.g. cc, dol, py ± bio/chl, bsn/prs. interval is bsn/prs poor. | | 153.00 m to 153.50 m - brcd | | |
| | | | | 153.50 m to 156.47 m - f.g. to m.g. anh to suh N8 dol pbls in 10R 6/2 v.f.g. ap bsn/prs - dol mtx, rare pods of m.g. suh to euh dol pbls, gradation into underlying unit starts @156.35 m, marked by development of localized bndg and decrease in bsn/prs, *153.50 m to 156.47 m → mtx supported brc. | ctc @156.47 m grad ↓ bsn/prs, text change. | 153.50 m to 156.47 m - brcd. | 155.00 | 184 |
| | | | | <u>dol-Carb</u> | ctc @166.77 m grade text change lower phl | 156.47 m to 166.71 m - mtx supported | 158.00 | 160 |
| | | | | colour: 5Y 6/1, 5Y 5/2. | | | 161.00 | 190 |
| | | | | model mineralogy: 85%-90% v.v.f.g. to m.g. anh to euh dol, 3-5% v.f.g. suh phl, 3-5% v.v.f.g. ap, trace qtz, py, fl, sph, bsn/prs, cc. | | | 164.00 | 188 |
| 157.06 m to 157.96 m - perv bnds of diss v.f.g. bsn/prs, 1-~4% locally. | | | | | | | | |
| 156.47 m to 158.52 m - v.v.f.g. to v.f.g. 5Y 7/2, N8 dol mtx with rare m.g. anh to suh N8 dol pbls localized bndg + bsn/prs mineralization, ap occurs as v.v.f.g. diss bnds, phl + cc occurs as frac infill. | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---|--|---|--|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| 166.92 | 194.98 | dol-Carb | | 158.52 m to 166.92 m - v.v.f.g. to v.f.g. 5Y 7/2, 5Y 5/2 dol mtx with f.g. to m.g. anh to suh N8, 5Y 8/1 dol pbls, loclly psd-brcd or mass, abnt fracs infilled by v.f.g. phl ± py → loclly phl dol-Carb. irr pods + lenses of N8 f.g. to m.g. pblc dol, dfmd x-cut 5GY 6/1 dol vns over interval. | | | 167.00 | 122 | |
| | | | | 162.15 m - isolated sph. | | | | | |
| | | | | ap dol-Carb colour: 5Y 7/2, 5YR 6/1. model mineralogy: 85-90% v.f.g. to m.g. anh to rare anh dol, 5-10% v.v.f.g. anh ap occuring as localized diss bnds, trace to 3% v.f.g. suh phl along fracs, trace qtz, fl, bsn/prs, py, sph. | ctc @194.98 m grad ↑ phl/bio, text change. | | | | |
| | | | | 166.92 m to 194.98 m - f.g. to m.g. N8 anh to rare euh dol pbls in v.v.f.g. 5Y 6/1, 5Y 8/1 ap - dol mtx, localized diss bnds of v.f.g. 5R 4/6 bsn/prs up to 3%, frequency decreases with increasing depth, subtle fol throughout interval, highlighted by min altns, unit loclly appears mass or as a mtx supported brc. sparse x-cut dol-Carb vns, phl ± v.v.f.g. cc + v.f.g. py occurs along + proximal to fracs, fl is rare occuring as sparse diss patches increasing proportion of bio/phl with increasing depth fol ranges between 20-35°. | 167.22 m - dol-Carb vn ~57° TCA. 167.80 → subtle bndg 43° TCA wk undulation. | 166.92 m to 194.98 m - wkly bnded mottled psd-brcd | 170.00 | 184 | |
| | | | | 167.22 m - x-cut v.v.f.g. 5Y 6/1 dol-Carb vn with offshoot. | 172.25 m → bndg 23° TCA. | | 173.00 | 210 | |
| | | | @~174.96 m - N9 dol vn, trace qtz. | 174.50 m → bndg ~23° TCA. | | | 176.00 | 198 | |
| | | | @176.21 m - ~2-4 mm x-cut dol qtz vn with v.f.g. bsn/prs. | 177.00 m → bndg ~30° TCA. | | | 179.00 | 213 | |
| | | | | | | | 182.00 | 203 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 194.98 | 205.91 | dol-Carb | | @181.64 m - x-cut 5Y 6/1 dol-Carb vn, with v.f.g. 5R 4/6 bsn/prs. | 181.64 m → dol-Carb vn 37° TCA. | | 185.00 | 219 |
| | | | | 186.37 m to 186.70 m - x-cut + dfmd 5Y 6/1 dol-Carb vn with v.f.g. bsn/prs. | 188.27 m → dol-Carb vn 37° TCA. | | 189.00 | 221 |
| | | | | 188.22 m to 188.32 m - x-cut 5Y 6/1 dol-Carb vn with v.f.g. bsn/prs. | 191.00 m → bndg ~33° TCA. | | 192.00 | 263 |
| | | | | <u>cc bio/phl ap dol-Carb</u> colour: 5Y 7/2, 5GY 2/1. model mineralogy: 75-80%, v.f.g. to m.g. anh to suh dol, 5-10% v.v.f.g. anh ap 5-10% v.f.g. suh bio/phl, 3-10% v.v.f.g. anh cc, trace qtz, bsn/prs, py, fl. | | | | |
| | | | | 194.98 m to 205.91 m - f.g. to m.g. anh to suh N8 (lt gy), 5Y 8/1 dol pbls in v.v.f.g. to v.f.g. 5Y 6/1. 5Y 5/2 anh ap dol mtx, v.f.g. 5Y 4/1 suh bio/phl infills abnt small (mm) fracs, v.v.f.g. N9 anh cc occurs along + proximal to fracs → bio/phl + cc likely later stage altn. common x-cut 5Y 6/1 v.v.f.g. dol-Carb vns, subtle bndg throughout interval. trace v.f.g. suh py also occurs along fracs with bio/phl + cc. wk fol throughout intervals, ranges from ~20-30° TCA. | ctc @205.91 m grad ↑ proportion of entrained "clsts", ↑ cc. | | | |
| | | | | 195.50 m - x-cut ~5 mm 5Y 6/1 dol-Carb vn ~50° TCA. | | | 195.00 | 300 |
| | | | | | | | | |
| | | | | 195.70 m - x-cut ~1 cm 5Y 6/1 dol-Carb with trace bsn/prs + fl ~39° TCA. | | | | |
| | | | | 197.55 m to 198.30 m - x-cut ~1 cm 5Y 6/1 dol-Carb vn undulating along CA, pods and lenses of N8/N9 dol with sparse f.g. anh pbls, also x-cut N9 dol vns f.g. suh to euh dol xtls, dol vn x-cuts dol-Carb vn. undulating vn appears to originate at larger x-cut dol-Carb vn @198.30 m. | | | 198.00 | 292 |
| | | | | @199.43 m - x-cut ~ 1 cm 5Y 6/1 dol-Carb vn ~50° TCA with trace bsn/prs, fl. | | | 201.00 | 210 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| 205.91 | 215.50 | dol-Carb | | @202.18 m - x-cut 5Y 6/1 v.v.f.g. dol-Carb, bsn/prs mineralization apparently proximal to vn. | 200 m - subtle bndg ~20° TCA, wkly undulating. | | | | |
| | | | | 202.67 m to 203.25 m - 5Y 2/1, 5YR 2/1 v.v.f.g. to f.g. minor. v.v.f.g. N9 anh cc perv through unit ~ 15-20%, 1-2% f.g. to m.g. suh to euh py, balance is v.v.f.g. phl ± dol, suls → cc - phlogopiteite (phl-ite). | 202.67 m CTC sharp 60° TCA, undulating. | | | | |
| | | | | @202.66 m - entrapped clsts of phl-ite in Carb, ang to subrnd. | 203.25 m - ctc sharp 50° TCA undulating. | | | | |
| | | | | @203.66 m - x-cut dol-Carb vn, 5Y 6/1, v.v.f.g., small lense of f.g. N8 dol vn in 5Y 6/1 dol-Carb vn. | 203.66 m - x-cut dol-Carb vn, 37° TCA. | 204.00 | 210 | | |
| | | | | <p><u>cc ap bio/phl dol-Carb</u> colour: N6, 5Y 8/1 model mineralogy: 70-75% v.f.g. to m.g. anh to suh dol, 5-10% v.v.f.g. anh ap occuring as locly perv diss bnds, 5-10% v.f.g. suh bio/phl, 5-10% v.v.f.g. anh perv cc, trace qtz, bsn/prs, fl, py.</p> | | | | | |
| | | | | 205.91 m to 215.50 m - altn? alkali metasomatism/fenetization. | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|--|-----------------------------|-----------------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>205.91 m to 215.50 m - f.g. to m.g. anh to suh N8 dol pbls in v.v.f.g. to f.g. 5Y 8/1 cc ap dol "mtx", v.f.g. suh 5Y 2/1 appears etched around dol pbls/mtx, cc pervades interval but highest concentrations are associated with "entrained clsts" of bio/phl schist/Myl. dominatly unit appears mottled + bnded + pseudo brcd; zones of increased contrast could be described as migmatitic. common x-cut 5Y 6/1 dol-Carb "vns", v.v.f.g.</p> <p>@~206 m - irr lense/pod of bio/phl schist/Myl, loclcy cc ~30-40%.</p> <p>@206.70 m - sutured pod of 5Y 8/1 anh dol, fringed by v.f.g. bio/phl, bio/phl infilled frac x-cut pod.</p> <p>@207.64 m - x-cut v.v.f.g. 5Y 6/1 dol-Carb vn 43° TCA undulating.</p> <p>@208.00 m - distorted bndg → cc-bio/phl-rich pod distorting bndg in Carb.</p> <p>@209.10 m - x-cut 5Y 6/1 dol-Carb vn, ~3.5 cm, 45°.</p> <p>209.55 m - distorted bndg → fol in Carb appears to "bend" around dol cc bio/phl column.</p> <p>@~210.00 m - large dol cc bio/phl pod/lense.</p> <p>@~211.00 m - pod/lense of dol cc bio/phl.</p> <p>211.43 m to 212.00 m - abnt ang N5 (med gy) siliceous f.g. to c.g. clsts, v.v.f.g.</p> | <p>ctc @215.50 m grad, text change, ↑ homogeneity.</p> <p>206.26 m - bndg ~23° TCA.</p> | <p>205.19 m to 215.50 m - mottled + bnded pseudo brc (mtx-sup?).</p> | <p>207.00</p> <p>210.00</p> | <p>140</p> <p>153</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---------------------------------------|-----------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 215.50 | 219.69 | dol-Carb | | 211.73 m to 211.92 m - x-cut 5Y 6/1 v.v.f.g. dol-Carb vn. | 211.80 m - x-cut dol-Carb vn 26° TCA. | | | |
| | | | | 212.18 to 212.50 m - mass appearance | | | | |
| | | | | 212.62 m to 212.79 m - dfmd + fracd x-cut dol-Carb vn, cc along margins. | 212.70 m - x-cut dol-Carb vn 24° TCA. | | | |
| | | | | 213.81 m to 213.84 m - cc bio/phl lense. | | | | |
| | | | | ~214.00 m to 215.50 m - prevalence of bio/phl decreasing, increasing homogeneity. | 214.05 m - bndg 27° TCA. | | 213.00 | 224 |
| | | | | <u>ap dol-Carb</u> colour: 5Y 8/1, 5Y 6/1. model mineralogy: 85-90% v.v.f.g.to f.g. euh to suh dol, 5-10% v.v.f.g. to v.f.g. anh ap occuring as diss bnds, trace-2% locky v.f.g. bsn/prs, wkly perv, trace cc, bio/phl, qtz + py, fl. | | | 215.00 | 219 |
| | | | | 215.50 m to 219.69 m - wkly perv v.f.g. bsn/prs. | | | | |
| | | | | 215.50 m to 219.29 m - f.g. anh to suh 5Y 8/1 dol grains in v.v.f.g. 5Y 6/1 ap - dol mtx, bio/phl, cc rare and decrease as depth increases, sparse x-cut 5GY 6/1 dol-Carb vns, prevalence of mottled text increases with increasing depth. | | 215.50 m to 219.69 m - mtx- | | |
| | | | | 216.79 m to 216.94 m - distorted x-cut 5Y 6/1, 5GY 6/1 dol-Carb vn v.v.f.g. | ctc @219.69 grad ↑ bsn/prs. | | 218.00 | 217 |
| 219.69 | 239.84 | dol-Carb | | <u>ap dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: 5Y 8/1, 10R 6/2.</p> <p>model mineralogy: 80-90% v.f.g. to m.g. anh to rare euh (equant rhombs) dol, 5-10% v.v.f.g. anh bsn/prs → locky unit is a bsn/prs ap dol-Carb, trace qtz, fl, py.</p> <p>@219.69 m - perv v.f.g. 5R 4/6 bsn/prs frac rel?</p> <p>219.69 m to 222.23 m - bsn/prs ap dol-Carb.</p> <p>219.69 m - (blank) m - f.g. 5Y 8/1 anh to suh dol in v.v.f.g. to v.f.g. 10R 6/2, 5Y 6/1 ap - dol mtx, v.f.g. bsn/prs pervades interval up to 10% locky, rnd or ang pods/clsts 5Y 8/1 dol up to a few cm surrounded by mtx generate mottled appearance, no apparent fol. sparse x-cut qtz vns.</p> <p>219.69 m to 219.81 m - patchy diss v.f.g. to f.g. anh fl.</p> <p>221.42 m to 221.56 m - x-cut qtz vn with m.g. suh N9 dol, v.f.g. to f.g. anh to suh ap, trace bsn/prs. *aggregated v.f.g. to f.g. anh to suh xnt occuring in qtz vn, largest is about 1 cm in length, 4 mm width.</p> <p>221.42 to 221.56 m - v.g. to f.g. anh to suh 5YR 3/4 (med br) xnt, 4 loclized aggregated clusters.</p> <p>227.00 m to 229.00 m - bsn/prs ap dol-Carb.</p> <p>230.29 m to 230.76 m - dfmd x-cut dol-Carb vns v.f.g. 5Y 6/1, x-cut by fl-qtz vns proximal bsn/prs mineralization.</p> <p>235.28 m to 235.40 m - half core given to land holders corporation → other half remins for assay.</p> <p>235.36 m to 235.39 m - v.f.g. scarlet r bsn/prs associated in py dol qtz vn.</p> <p>235.93 m to 235.97 m - N5 (med gy) v.v.f.g. sub-ang - sub-rnd clst, v.f.g. py throughout, H = 5.5 to 6.0, fluorescent w/b, fspoid?</p> | | | | |
| | | | | | 221.50 m - x-cut qtz vn 31° TCA. | | 221.00 | 228 |
| | | | | | | | 224.00 | 224 |
| | | | | | | | 227.00 | 212 |
| | | | | | | | 230.00 | 213 |
| | | | | | | | 233.00 | 216 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|--|---|--------|
| | | | | | | | DEPTH (m) | CPS |
| 239.84 | 243.94 | dol-Carb | | 235.36 m to 239.84 m - bsn/prs ap dol-Carb. | | | 236.00 | 200 |
| | | | | 237.50 m to 238.59 m - bnded psd-brc overprinted @ 238.59 m. @238.00 - bnding 31° TCA. | | | 239.00 | 215 |
| | | | | <p><u>dol-Carb</u> colour: N5, 5R 6/6 model mineralogy: 95-97% v.v.f.g. to m.g. anh to suh dol, 2-3% v.f.g. anh bsn/prs, 1-2% v.v.f.g. anh ap occurring as localized patches, trace py, fl, qtz.</p> <p>239.84 m to 243.94 m - sparse f.g. to m.g. anh to suh dol pbbs in v.v.f.g. 10Y 8/2, N5 dol mtx. dol pbbs decrease with increasing depth. swirly mottled text (oil painting), rare x-cut mm qtz vns. v.f.g. bsn/prs occurs as diss throughout but decrease with increasing depth. v.v.f.g. ap follows the same trend, fl begins to increase approaching lower etc.</p> <p>239.84 m to 243.94 m - mottled mtx supported text (oil painting) text billet</p> | | | ctc @243.94 m grad ↓ ap, bsn/prs, ↑ fl. | 242.00 |
| 243.94 | 286.65 | dol-Carb | | <p><u>dol-Carb</u> colour: 5Y 7/2, 5Y 5/2 model mineralogy: 95-97% v.v.f.g. to v. rare m.g. anh dol, trace to 4% v.f.g. to f.g. anh fl as locly perv bnds, stockwork patches, and diss, trace to 1% v.v.f.g. ap as localized diss patches, v. rare mm bnds, trace qtz, py.</p> <p>243.94 m to 286.65 m - mottled v.v.f.g. dol. mottling generated from intermingling of v.v.f.g. 5Y 5/2 (lt ol-gy), 5Y 7/2 (y-gy), 5Y 6/4 (dusky y), and 5Y 8/1 (y-gy) dol. no uniform distribution random. v. rare anh 5Y 8/1 f.g. to m.g. dol pbbs, localized bndg defined by fine alternating laminations of dol + fl or dol, sparse mm qtz vns ± fl throughout, sparse vuggy patches with unkn min infill → 10R 4/6, v.f.g. to f.g. anh to euh (rhombs), wkly effervescence with HCl, H = 4.5 to 5.0, also occurs as frac coating.</p> <p>@~244.00 m - x-cut? 5Y 5/2, 5Y 7/2 dol-Carb vn, x-cut by N8 dol qtz vn.</p> | ctc @286.65 m - grad text changes alteration. | 243.94 m to 286.65 m - mottled + wkly bnded, | 245.00 | 213 |
| | | | | | | 248.00 | 268 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 250.16 m to 251.38 m - vuggy zone with v.f.g. to f.g. anh to euh (rhombs) 10R 4/6 ukn min, wkly effervesces with HCl, H = 4.5 to 5.0, occurs with v.f.g. to f.g. suh to euh py + rare fl possibly bsn/prs, siderite? | | | | |
| | | | | 252.26 m to ~257.00 m - patchy v.f.g. diss fl + sparse fl - qtz vns. | | | 252.00 | 274 |
| | | | | @257.37 m - vuggy frags with 10R 4/6 ukn min (251.30 m to 251.38 m). | | | 255.00 | 265 |
| | | | | 258.22 m to 258.55 m - 10R 4/6 ukn on frags. | | | 258.00 | 281 |
| | | | | @262.71 m - ukn 10R 4/6 min in vugs. | | | 261.00 | 2237 |
| | | | | 264.24 m to 264.58 m - 10YR 8/2 (v. pale og) v.v.f.g. mottles → ap-rich under UV, w/b fluorescence. | | | 264.00 | 303 |
| | | | | 264.24 m to 286.65 m - 10YR 8/2 mottles ofen proximal to fl patches. | | | 267.00 | 260 |
| | | | | @268.50 m - v.f.g. anh 10YR 5/4 min occuring with fl, no effervescence with HCl, H = 4.5-5.0, under UV some grain fluorescent w/b → ap? | | | | |
| | | | | 269.96 m to 270.40 m - patchy fl with 10YR 8/2 mottles, ap present under UV, also v.f.g. anh to suh py with oxidization staining, gives illusion of another min. | | | 270.00 | 317 |
| | | | | @270.43 m - v.f.g. 5Y 6/1 x-cut 5 mm dol-Carb vn. | | | | |
| | | | | @271.43 m - v.v.f.g. to v.f.g. anh 10R 5/4 min, H = 4.0 to 4.5, wkly effervesces with HCl, bsn/prs occurs with fl. | | | | |
| | | | | @271.80 m - ~2 mm x-cut fl ap qtz dol vnlet, with f.g. to m.g. anh to euh xnt? XRF returned ~700 ppm Y. sharp xtls growing into fl, xnt ? is 10YR 6/6 (dk y-og). | | | | |
| | | | | @~272.00 m - x-cut fl vn with xnt? | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------------------------------|---------------------------------|------------------|--|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 286.65 | 311.78 | dol-Carb | | @273.20 m - sul rich vn → v.f.g. py, po, sph? | @274.84 m - qtz vn, ~15%. | | | |
| | | | | @273.38 m - ~2-3 mm x-cut 5Y 7/2 dol-Carb vn. | | | 273.00 | 364 |
| | | | | 274.80 m to 274.88 m - 3-4 1 mm x-cut qtz vn, distorted dol-Carb proximal to vn. | | | 276.00 | 464 |
| | | | | 276.66 m to 276.91 m - ap qtz = fl vn with xnt? → 10YR 6/6 f.g. to m.g. suh to euh min. | | | 279.00 | 463 |
| | | | | @276.90 m → qtz vn with c.g. euh fl + m.g. suh xnt? 5YR 4/4 (med br). | | | 281.00 | 358 |
| | | | | 280.54 m to 280.68 m - pod of brcd dol-Carb, f.g. to m.g. ang to sub-ang clsts of 10GY 5/2 v.v.f.g. dol-Carb in v.v.f.g. to v.f.g. 5Y 2/1 bio/phl ± py mtx. | | | 284.00 | 359 |
| | | | | <p><u>dol-Carb</u> colour: 5Y 7/2, 5Y 5/2 model mineralogy: 96-98% v.v.f.g. to sparse m.g. anh to suh dol, trace to 3% v.f.g. to f.g. anh fl as localized diss bnds and mottled patches, trace to 1% ap occuring as isolate grains, patches or v. rare mm perv bnds, trace qtz, py, srp, xnt?, bsn/prs, cc.</p> | | | | |
| 286.65 to 311.78 m - v.v.f.g. to v.f.g. 5Y 7/2, 5Y 5/2, 5Y 8/1 dol intermingled to generate mottled appearance, pods + lenses of dol-Carb clst + mtx supported brcs, common mm x-cut qtz vnlets ± py + fl, py-rich patches → up to ~5% locally, fl most commonly occurs as mottled patches randomly distributed throughout interval. | ctc @311.78 m - grad text change. | 286.65 m to 311.78 m - hetero + | | | | | | |
| 286.65 m to 311.78 m - hetero + mottled. | | | | | | | | |
| 287.33 m to 287.40 m - v.f.g. anh 10R 6/6 bsn/prs? occuring with sparse diss v.f.g. anh fl. | | | 287.00 | 343 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 287.70 m to 288.00 m - penetrative qtz srp vn running virtually parallel TCA. v.f.g. 5P 2/2 fl also occurs + 10R 4/6 v.v.f.g. aggregated ukn min, no effervescence with HCl, H = 2.0~3.0. srp is a greasy/resinous 5BG 3/2 (dusky b gr) in asbestiform habit forming a ladder vn along CA. | | | | |
| | | | | 288.13 m - lense of v.f.g. fl accompanied by 10R 6/6 bsn/prs? | | | | |
| | | | | 289.60 m to 289.70 m - diss v.f.g. 10R 6/6 bsn/prs? | | | | |
| | | | | 290.00 mm to 291.00 m - diss v.f.g. 10R 6/6 bsn/prs? | | | 290.00 | 341 |
| | | | | 291.60 m to 292.27 m - diss v.f.g. 10R 6/6 brs/prs? | | | | |
| | | | | @~290.00 m - 5BG 3/2 srp vn 1-2 mm. | | | | |
| | | | | @~290.55 m - localized patch of 10R 6/6 bsn/prs forming rims around ukn v. lt gr translucent min, v.v.f.g., no effervescence with HCl, H = 2.0-3.0, rxn rim? | | | | |
| | | | | 293.00 m to 293.45 m - patchy diss v.f.g. to f.g. fl, mottled + pseudo brcd appearance. | | | 293.00 | 330 |
| | | | | 293.55 m to 293.80 m - x-cut v.f.g. 5Y 6/1 dol-Carb vn. | 293.70 m - x-cut dol-Carb vn 12° TCA. | | | |
| | | | | 293.80 m to 311.78 m - pods lenses, and bnds of mtx supported brc → f.g. to m.g. N8 dol pbls in v.v.f.g. to v.f.g. 5Y 6/1, 5G 4/1 mtx ± py. | | | | |
| | | | | @296.28 m - srp vn with fl + 5YR 5/6 (lt br) min, v.f.g., anh, H = ~4.0 no effervescence with HCl. | | | 296.00 | 232 |
| | | | | 296.28 m to 311.78 m - v.f.g. 5YR 5/6 min occuring with qtz, fl, py ± srp. | | | 299.00 | 300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------------------------------------|------------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 302.51 m to 303.50 m - clst supported brc → ang f.g. to v.c.g. 5Y 8/1, 5GY 6/1, dol-Carb clsts, frags infilled by 5BG 3/2 srp, qtz, py, ± v.f.g. 5YR 5/6, common x-cut qtz vns. | | | 302.00 | 321 |
| | | | | 303.50 m to 304.32 m - x-cut vn of v.v.f.g. to v.f.g. 5GY 4/1, 5Y 5/2 cc dol-Carb. mtx supported brc → f.g. to rare c.g. sub-ang to rnd dol-Carb clst in cc dol mtx, rnd siliceous c.g. 5G 4/1 clst 304.28 m, WR? | ctc @303.50 m sharp 45° TCA. | | | |
| | | | | 304.32 m to 304.50 m - diss v.f.g. suh py + v.v.f.g. N5 mag. | ctc @304.32 m sharp 45° TCA. | | 305.00 | 309 |
| | | | | 307.42 m to 307.87 m - v.v.f.g. to f.g. anh to suh N5 mag proximal to 1-3 mm v.f.g. qtz - py vn undulating along CA, v.v.f.g. also along vn margin. | @307.48 m - x-cut qtz vn 35° TCA wkly undulating. | | | |
| | | | | @307.49 m - x-cut qtz vn. | | | | |
| | | | | 308.00 m to 310.28 m - 10-40 cm mottled fl patches, up to 10% v.f.g. fl locly. | | | 308.00 | 304 |
| | | | | 311.02 m to 311.65 m - 5BG 3/2 srp ladder vns x-cut core, 5YR 5/6 v.f.g. min accompanies. | 311.02 m to 311.65 m srp vns 12°-17° TCA. | | 311.00 | 225 |
| 311.78 | 323.09 | dol-Carb | | <u>dol-Carb</u> colour: 5Y 5/2, 5Y 7/2. model mineralogy: 98-99% v.v.f.g. to f.g. anh dol, trace to 2% v.f.g. to f.g. fl, trace ap, srp, py, qtz, cc. | | | | |
| | | | | 311.78 m to 323.09 m - v.v.f.g. to f.g. 5Y 6/1, 5Y 5/2, 5Y 7/2 dol intermingled generate mottled appearance mass appearance where single colour is dominant, fl occurs as blotchy patches often proximal to qtz fl vns x-cut core, localized bndg of dol, trace py and srp frac related. | ctc @323.09 m = EOH. | 311.78 to 323.09 m - mottled to mass. | 314.00 317.00 | 277 325 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 316.07 m to 316.69 m - enclave/clsts of v.v.f.g. to v.f.g. dol-Carb? | | | 320.00 | 307 |
| | | | | 322.67 m to 323.09 m - increasing in frags over interval, sparse x-cut 2 mm to 1 cm 5Y 6/1 dol-Carb vns. | | | 323.00 | 248 |
| | | | | EOH | | | | |

OGC # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|---------------------------------|------------------------------------|
| Property: Eldor Property | Easting (m): 536447.75 | Drill Company: Cartwright Drilling Ltd. | Date Started: Mar 16, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312222.07 | Rig Type: CDI 500 | Date Completed: Mar 25, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Partial Pull | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 15.24 m | Note: Only partial downhole survey |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 600.46 m | test with 7.62 m of casing lost |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: C. Knight, M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 13.90 | OVB | - | <u>Ovb</u> | | | | |
| 13.90 | 66.80 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>f.g. to m.g., lt ol-gy (5Y 6/1) and mod r (5R 5/4).</p> <p>mins - 97 % dol, dominantly anh f.g. itsl xtls in gdmass, also as m.g. to c.g. anh - euh xtls (rxtd grains? pbls?) 3% bsn?/prs? anh f.g., mod r-brk, trace: fl, py, sul, chl, sph, po, amph.</p> <p>hetero unit dominantly psd-brc text with w m.g. to c.g. anh to euh dol xls (pbls?) in lt med lt gy f.g. dol ± v.f.g. to f.g. mod r bsn? prs? ± f.g. fl (v. locld) gdmass, locld patchy, bnded and mottled sections. large sections appear rxtd (such that psd-brc may be pblc?) x-cut v.f.g. to f.g. lt ol-gy to pale ol dol-Carb vns (± py ± chl ± sph? ± sul? ± bsn? prs?) are common (every 1-2 m). many are zoned, some brcd. v.f.g. to f.g. med dk to dk gy mafic vnlets and mafic filled fracs occur locly, f.g. fl occurs in v. locld patches, pockets of blebs and thin bnds, abundance inc approaching lower ctc. bsn? prs? dom occurs as diss blebs and itsl to gdmass, content inc locly to 10-20%, locld chl ± py filled vugs (2-5 mm avgs).</p> <p>common med lt to med gy patches of v.f.g. mafics (can be chl +/- sul +/- sph +/- bio).</p> <p>11.84 m to 13.90 m - v. broken and rolled pieces of core, few country rock bldrs, dol-Carb pieces have abnt med gy (N5) - mod r (5R 4/6) hem filled fracs.</p> <p>14.85 m to 15.50 m - x-cut pale ol (10Y 6/2) dol-Carb vn disrupted (cut by) sph-bsn?/prs? - dol qtz vnlet, few brk bsn? prs? - w dol pods.</p> | 13.90 m to 66.80 m - hetero text, psd-brc dominant. | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 16.78 m to 31.22 m - interval appears v. rxtld, abnt m.g. to c.g. suh to euh dol xlts (pbls?). | | | | |
| | | | | 19.00 m to 23.37 m - abnt x-cut, dol-Carb vns, some with gy-b (5PB 5/2) v.f.g. mafic abnt zones and ang dol clsts within, one with trace diss f.g. brk-r bsn? prs? blebs. | | | 19.00 | 276 |
| | | | | 22.55 m to 26.79 m - mod dk gy v.f.g. mafic (chl sph?) blebs (3-5 mm avgs) ± f.g. itsl brk-r bsn? prs? | | | | |
| | | | | 25.37 to 27.00 m - mineralization - 5% mod r (5R 4/6)- brk-r bsn? prs? v.f.g. itsl f.g. diss blebs. | | | | |
| | | | | 25.37 m to 27.00 m - 5% mod r (5R 4/6) - brk-r bsn? prs?; v.f.g. itsl, f.g. diss blebs. | | | 25.00 | 400 |
| | | | | 27.13 m to 30.15 m - common med gy itsl clusters of v.f.g. to f.g. sub-met granular mafic min (sph?) ± f.g. diss py ± itsl bsn? prs? (rare) few 0.4-1 cm dol-Carb vns with 3-5% v.f.g. bsn? prs? | | | | |
| | | | | 30.90 m to 34.50 m - few fl patches to 31.20 m, interval fines downwards to aph, v. abnt v.f.g. zoned pale ol (10Y 6/2) x-cut dol-Carb vns (± py ± v.f.g. mafics ± trace bsn? prs?), 3-10 cm across, few deformed, one with abnt py-cc walled vugs, one with bsn? prs? abnt zones, one ~ parallel TCA, (f.g. py up to 1% here), few with 1 mm angles TCA (structure - 32.00 m: dol-Carb vn, ~90° TCA, 32 m: dol-Carb vn, 25° TCA). | 32.00 m - dol-Carb vn, ~90° TCA. | | 31.00 | 400 |
| | | | | 35.66 m to 37.98 m - perv bsn? prs? v.f.g. itsl and f.g. diss blebs with abnt med lt gy (N6) sph - (other sul?) - py vnlet and clusters, (3-6% overall). mineralization: bsn?prs?, mod r (5R 4/6) -brk r, 10-15%, perv. | 33.37 m - dol-Carb vn, 25° TCA. | | 37.00 | 400 |
| | | | | 38.30 m to 40.89 m - few dol-Carb vns with abnt f.g. to c.g. anh-euh py v.f.g. blk sul (sph?) ± bronze pk po? (magnetic) locld 6 cm py abnt cluster with blk acicular min (trace, tutile?), rare locld fibrous amph (act?) filled fracs, 19 cm clst-sup brc @ end, ang dol-Carb clsts, py sph? bsn?/prs? qtz dol mtx, rare salmon pk min as blebs are lining vug walls (prs? H=3.5) minor locld qtz vnlet and pockets. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 42.11 to 42.23 m - minor salmon pk min (prs?, H=3.5) infilling fracs, minor qtz vnlet. | | | 42.15 | 415 |
| | | | | 44.05 m to 51.58 m - bsm? prs? mod r (5R 4/6) brk-r, 7 - 10% locly perv. | | | 48.00 | 330 |
| | | | | 52.60 m to 55.86 m - colour lightens to w - lt gy and mod r (5R 5/4), fewer v.f.g. mafics +/- or sul?, locld cc-sul filled vugs (mineralization: 44.05 m to 51.58 m - bsn? prs? mod r (5R 4/6) brk r, 7-10% locly perv). | | | 54.00 | 325 |
| | | | | 57.60 m to 58.79 m - bnded, 10% mod pk (5R 7/4) v.f.g. min (bsn?prs?) in diffuse bnds, 8% f.g. fl in thin bnds and patches of diss blebs, minor med lt gy (N6) stringer (v.f.g. sul?, mafics?); typical 'v type' (mineralization: bsn?prs? (10%) and fl (8%) both perv). | 58.65 m - bndg wk, 25° TCA. | | 58.00 | 315 |
| | | | | 61.66 to 61.96 m - 1 cm wide v.f.g. dol-Carb vn with 5% v.f.g. itsl mod pk (bsn? prs?). | | | | |
| | | | | 63.32 to 63.75 m - trace salmon pk (5R 6/6/?) f.g. min (prs?, H: 3.5) with diss mod r (5R 4/6) f.g. bsn? prs? and dk gy sub met sul (sph?) blebs @63.32, then 20 cm brk vn, w and dol clsts (3x4 cm to 0.2-0.3 cm across) med gy (N5) v.f.g. qtz (rare locld) - bsn?/prs? - sph - dol (± w mica - ser?) mtx. | 60.66 m to 60.96 m - broken zone? | | | |
| | | | | avg CPS of unit: 351, max CPS of unit: 415. | | | 65.00 | 300 |
| 66.80 | 86.00 | dol-Carb | - | <u>bsn?/prs? dol-Carb</u> f.g. - m.g., v. lt gy (N8) and mod r (5R 5/4). mins: dol 89%, f.g., anh. bsn?prs? 10%, f.g., anh. fl : 11% f.g., anh. py trace, f.g., anh, locly diss up to 1%, trace: chl. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | hetero unit (majority appears rextld hydrothermal overprinting?), perv v.f.g. to f.g. lt r (5R 6/6) + mod r (5R 4/6) bsn? prs? itsl, thin stingers, bnds, concentrated pods + patches, fl-loclld blebs, vnlet patches and thin bnds, predominantly wkly-mod bnded, also patchy, mottled and psd-brc text sections. bnded sections comprise bsn/prs? bnds + med lt gy (N6) v.f.g. mafic (sul?chl?) bnds and thin fl bnds psd-brc sections comprise w m.g. to c.g. anh- euh dol xls (pbls?) in med lt gy (N6)-mod r (5R 5/4) bsn? prs? dol (± fl, ± v.f.g. mafics) gd mass. colour darkens moving down hole, drkr overall compared with previous unit less x-cut dol-Carb vns then previously. | | | | |
| | | | | 66.80 m to 86.00 m - bsn/prs? v.f.g. to f.g. (5R 6/6) lt r perv. @66.80 m - ctc, grad over a few m including bsn? prs?, in fl content. hetero text, dominantly bnded. | 69.29 m bndg - 30° TCA. | | 66.80 | 260 |
| | | | | 70.00 m to 71.30 m - lenses of v.f.g. 5Y 7/2 (y-gy) dol-Carb vns irregularly undulating along CA. | | | 70.00 | 209 |
| | | | | 70.00 m to 70.71 m - CPS min 209, max 377, avg 300. | | | 73.00 | 280 |
| | | | | 74.52 m to 74.95 m - shallow angle vn of (5Y 5/2) lt ol-gy dol-Carb. | | | 76.00 | 330 |
| | | | | 76.95 m to 77.87 m - bsn/prs v.f.g. to f.g. (5R 6/6) perv, 15-20%. | | | 79.00 | 300 |
| | | | | 83.09 m to 83.13 m - partially-brc v.f.g. (5Y 6/1) lt ol-gy dol-Carb vn, brc segment consists of sub-ang to sub-rnd f.g. to m.g. dol-Carb clsts in v.v.f.g. to v.f.g. N4 (med dk gy) chl?, py, cc mtx. | 83.11 m - dol-Carb vn 28° TCA. | | 82.00 | 289 |
| | | | | 70.00 m min - 209, 70.71 m max - 377, avg - 300. | ctc @ 86.00 m grad text change. | | 85.00 | 275 |
| 86.00 | 96.75 | dol-Carb | - | <u>bsn/prs dol-Carb</u> | | | 88.00 | 350 |
| | | | | Colour: 5Y 6/1 (lt ol-gy), 5R 6/6 (lt r). | | | 91.00 | 391 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mineralogy: 90-95% v.f.g. to m.g. anh to euh dol, 5-10% v.f.g. to f.g. anh bsn/prs?, trace qtz, fl, py, chl.</p> <p>86.00 m to 96.75 m - unit dominantly consists of bnds of v.f.g. 5Y 7/2 (y-gy + 5Y 6/1 + 5Y 5/2 (lt ol-gy) with f.g. to m.g. anh to euh (equant rhomb) N8/5Y 8/1 (v. lt gy/y-gy) dol pbls?, and v.f.g. to f.g. (anh 5R 6/6 bsn/prs? common x-cut qtz vnlets ± fl, often displacing/offsetting bndg, common x-cut v.f.g. 5Y 6/1 dol-Carb vns. bndg typically at shallow angle TCA (10-20%), bnd uniformity dissipates approaching ctc (v.f.g 5R 6/6 bsn/prs). text: bnded, pblc?</p> <p>87.15 m to 88.27 m - abnt x-cut qtz vnlets ± fl @87.54 m qtz vnlets x-cut late stage dol-Carb vn.</p> <p>89.19 m - 89.38 m - x-cut v.f.g. 5Y 6/1 dol-Carb vn.</p> <p>90.78 m to 91.40 m - x-cut v.f.g. 5Y 6/1 dol-Carb vn.</p> <p>90.78 m to 95.77 m - decreased bsn/prs? mineralization, common x-cut late stage dol-Carb vns.</p> <p>91.81m to 92.22 m - loclized dism fl bnds, 3-5% v.f.g. too f.g. anh 5P 2/2 fl.</p> <p>92.12 m to 92.39 - x-cut 5Y 5/2 dol-Carb vn.</p> <p>93.48 m to 94.05 m - x-cut 5Y 5/2 dol-Carb vn undulating along CA.</p> | <p>83.11 m - dol-Carb vn 28° TCA.</p> <p>ctc @ 86.00 m grad text change.</p> <p>89.25 m - x-cut dol-Carb vn 20° TCA.</p> <p>90.90 m - x-cut dol-Carb vn 23° TCA, wkly undulating.</p> <p>92.20 m - x-cut dol-Carb vn 20° TCA.</p> | | 94.00 | 390 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|---|--------------------------------------|------------------------------------|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| 96.75 | 115.93 | dol-Carb | - | <p>@95.47 m - isolate f.g. anh to suh 10Y 8/2 (pale y gr) min, no effervescence with HCL, H=3-~4.</p> <p>95.61 m to 95.80 m - x-cut 10Y 6/2 (pale ol) dol-Carb vn.</p> <p>95.92 m to 96.24 m - localized x-cut qtz fl vnlets.</p> <p>CPS high @ 93.70 m - CPS highs proximal to late stage x-cut dol-Carb vns. proximal to 86.00 m → min 303, max 436, avg 385.</p> <p><u>dol-Carb</u></p> <p>colour: 5Y 7/2, 10Y 6/2.</p> <p>minerology: 95 - 97% v.f.g. to rare c.g. anh to euh (equent rhomb) dol, 1-3% v.f.g. to f.g. anh bsn/prs, 1-2% v.v.f.g. to v.f.g. ap? (b-w UV fluorescence), trace fl, py, qtz.</p> <p>96.75 m to 104.3 m - unit is dominantly a mtx-supported brec; locly clst-supported. mtx consists of v.f.g. 5Y 5/2 pr 5Y 7/2 dol ± frac-rel v.f.g. to f.g. 5R 6/6 bsn/prs; clsts typically f.g. to sparse c.g. ang to rounded 5Y 8/1, 5Y 7/2, 5Y 5/2 dol. sparse f.g. to v. rare c.g. anh to euh (equent rhomb) dol pbls? occur throughout. common late stage x-cut dol-Carb vns (5Y 6/1, v.f.g.). healed fracs throughout unit, apparent association with bsn/prs? ± fl mineralization.</p> <p>96.75 m to 115.93 m - v.f.g. bsn/ prs? frac-rel, diss.</p> <p>98.12 m to 98.97 m - patches of wkly perv frac-rel v.f.g. to f.g. fl.</p> <p>102.18 m to 103.62 m - v.f.g. 5Y 6/1 brc dol-Carb vn undulating along CA.</p> <p>103.62 m to 104.89 m - abnt x-cut dol-Carb vns (v.f.g., 5Y 6/1, 5 Y5/2) irregular orientations.</p> | 95.70 m - x-cut dol-Carb vn 25° TCA. | | 97.00 | 267 | |
| | | | | | | 96.75 m to 115.93 m - brc, hetero. | | | |
| | | | | | | | 100.00 | 340 | |
| | | | | | | | 103.00 | 365 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 105.86 m to 106.10 m - x-cut v.f.g. 5Y 6/1 dol-Carb vn, 10YR 7/4 (gy-og) min on frac surface, v.f.g., H= 4~5, no effervescence with HCL, mag? | | | | |
| | | | | 105.86 to 108.00 m - series of late stage x-cut v.f.g. 5Y 6/11 dol-Carb vns, typically 35-46° TCA, interval appears v. wkly bnded. @106.46 m - displaced/offset late stage dol-Carb vn. 106.50 m to 106.76 m - patchy wkly perv f.g. fl. 106.90 m - frac with f.g. chl coating. 107.61 to 107.69 m - x-cut brc vn with entrained clsts are sub-ang to sub-rnd f.g. to c.g., dominantly dol-Carb (5Y 7/2). vuggy patches of 5YR 2/1 (br-blk) v.v.f.g. to v.f.g. py ± sul? chl? proximal to 106.00 m CPS highs proximal to late stage x-cut dol-Carb vns. | 105.86 m to 108.00 m - x-cut dol-Carb vns, 35 - 40° TCA. | | 106.00 | 500 |
| | | | | 107.05 to 109.63 m - patchy diss v.f.g. to f.g. bsn/prs? ± f.g. fl. | | | | |
| | | | | 107.89 m to 108.00 m - x-cut dol-Carb vn (5Y 6/1 v.f.g.) wk zonation. | 107.95 m - x-cut dol-Carb vn 27° TCA wkly undulating. | | | |
| | | | | 109.63 m to 112.74 m - 2-3% v.f.g. frac-rel, patchy bsn/prs? ± fl. | | | 109.00 | 380 |
| | | | | 112.30 m to 112.74 m - 5B 5/1 (med b-gy) x-cut dol-Carb vn undulating along core axis v.f.g. | | | 112.00 | 327 |
| | | | | 112.93 m - vuggy pocket with m.g. euh dol xtls + v.f.g. cc + v.f.g. bsn/prs. | 113.10 m - bndg 27° TCA. | | | |
| | | | | 113.00 m to 113.36 m - loclized bndg. | | | | |
| | | | | 114.75 m to 115.93 m - x-cut 5P 2/2 fl vnlets, frequency increases with depth. ctc @115.93 m - frag, text change, ↑ fl. | | | 115.00 | 277 |
| | | | | CPS: proximal to 115.00 m - min 233, proximal to 106.00 m - max, 521, avg 370. CPS high proximal to late stage x-cut dol-Carb vns. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|--------|-----|
| | | | | | | | DEPTH (m) | CPS | |
| 115.93 | 123.56 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour: 10 YR 6/2, 10 Y 6/2.</p> <p>minerology: 93-95% v.f.g. to m.g. anh to suh dol, 1-4% v.f.g to f.g. anh fl, 1-2% v.f.g. to f.g. anh bsm/prs?, trace -1% v.v.f.g to v.f.g. ap? (b-w fluorescence), trace qtz; py.</p> <p>115.93 m to 123.56 m - mottled, psd brc. hetero overall mottled appearance, dominantly v.f.g. to f.g. anh to suh 10YR 6/2 (pale y-br), N8, 10 Y 6/2/ (pale ol) dol with common N8, f.g. to m.g. anh to rare euh (equant rhomb) dol pbls? spare 10 YR 6/2 v.f.g. late stage x-cut dol-Carb vns, common x-cut v.f.g. fl vnlets. patchy f.g.f. to f.g. anh fl typically proximal to t x-cut fl vnlets. v.f.g. to f.g. 5 R 6/6 bsn/prs? occurs throughout, typically frac-related with highest concentrations in ? proximal to fl patches and veinlets.</p> <p>115.93 to 117.00 m - 3-5% v.f.g. to f.g. fl, locly * fl dol-Carb*.</p> <p>116.71 m to 16.74 m - x-cut v.f.g. 10Y 6/2 dol-Carb vn.</p> <p>117.07 m to 117.97 m - v.f.g. to f.g. 10Y 6/2 dol with pods of N8 dol pbls?</p> <p>117.31 m - qtz vn with bsn/prs?</p> <p>118.00 m to 119.05 m - 3-5% v.f.g. to f.g. fl, locly *fl dol-Carb*.</p> <p>119.54 m to 119.70 m - x-cut v.f.g. 10Y 6/2 dol-Carb vn.</p> <p>120.00 m to 123.56 m - v.f.g. 5YR 5/6 (lt br) anh min diss throughout, wkly effervescence with HCL H~4.0, possibly an altn of bsn/prs? REflc? ~4 cm patch @ 121.00 m.</p> <p>120.67 m to 122.83 m - v.f.g. to f.g. anh to suh sph occuring as patches proximal to healed fracs, sph is N5 (med gy), large patch @~122.50 m.</p> | | | 118.00 | 270 | |
| | | | | | | | | 121.00 | 280 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 123.56 | 145.95 | dol-Carb | - | <p>122.83 m to 123.56 m - 1-3% v.f.g. to f.g. patchy fl. + 5Y 5/2 f.g. anh to suh dol? effervesces with HCL H=4~5. @123.56 m - colour darkens.</p> <p>proximal to 116.00 m min - 267, proximal to 122.83 m max - 400, avg 300.</p> <p><u>dol-Carb</u></p> <p>Colour: 10Y 6/2 , 5Y 6/1.</p> <p>minerology: 93-95% v.f.g. to sparse m.g. anh to rare euh (equent rhomb) dol, trace - loclized 4% v.f.g. to f.g. anh bsn/prs, trace - loclized 5% v.f.g. to f.g. anh fl, trace v.v.f.g. to v.f.g. ap? (b-w fluorescence), trace qtz, py sph.</p> <p>123.56 to 145.95 m - overall mottled appearance, locly pblc, dominantly v.f.g. to f.g. anh 10Y 6/2, 5Y 6/1 dol with f.g. to sparse m.g. N8 dol pbls (locly abnt pblc). v.f.g. to f.g. anh 10R 4/6 (mod r-br) bsn/prs as diss patches ± v.f.g. to f.g. anh 5P 2/2 fl. common v.f.g. 5Y 5/2 + 5Y 6/1 dol-Carb vns occur throughout. 123.56 m to 134.51 m - mottled. 134.51 m to 135.20 m - pbls.</p> <p>126.64 m to 126.77 m - patch of wk crust: form bndg, clsts of v.f.g. 5Y 5/2 dol-Carb rimmed by 10YR 8/2 (very pale og) v.f.g. anh dol occuring with v.f.g. anh sph (N5) and f.g. suh py.</p> <p>127.00 m to 129.14 m - series of x-cut dol-Carb vns (v.f.g., 5Y 5/2), some undulating along CA others between. 20-30° TCA.</p> <p>128.27 m to 128.69 m - patchy dism 10R 4/6 bsn/prs.</p> <p>131.21 to 131.80 m - v.f.g., 5Y 5/2 dol-Carb vn undulating along CA.</p> <p>132.40 to 134.48 m - 2-5% v.f.g. to f.g. anh 5P 2/2 fl, locly *fl dol-Carb*, sparse x-cut qtz fl vnlets, trace -2% v.f.g. to R 4/6 bsn/prs, late stage x-cut dol-Carb vns/v.f.g. 5Y 6/1 undulating along CA.</p> | ctc @123.56 grad ↓ fl, colouration | | | |
| | | | | | | | 124.00 | 390 |
| | | | | | | | 127.00 | 479 |
| | | | | | | | 130.00 | 435 |
| | | | | | | | 133.00 | 400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 145.95 | 153.30 | dol-Carb | - | 134.51 m to 135.20 m - f.g. to m.g. anh (equent rhomb) dol pbls with 1-3% v.f.g. 5R 4/6 (med r) wkly perv bsn/prs, few late stage x-cut v.f.g. 5Y 5/2 dol-Carb vns. | | | | |
| | | | | 134.51 m to 135.20 m - wkly perv v.f.g. 5R 4/6 bsn/prs. | | | | |
| | | | | 135.20 m to 145.95 m - mottled. | | | | |
| | | | | 136.11 m to 138.18 m - wkly perv v.f.g. 5R 4/6 bsn/prs, 1-3%. | | | 136.00 | 375 |
| | | | | 136.19 m to 136.23 m - x-cut 5Y 6/1 v.f.g. dol-Carb vn. | | | | |
| | | | | 138.37 m to 138.40 m - patch of v.f.g. scarlet r bsn/prs. | | | | |
| | | | | 138.69 m to 138.75 m - loclized v.f.g. N5 sph. | | | 139.00 | 390 |
| | | | | 140.29 m to 141.69 m - patchy v.f.g. 5R 4/6 bsn/prs, 1-3%. | | | | |
| | | | | 141.71 m to 142.92 m - series of v.f.g. 5Y 6/1 x-cut dol-Carb vns, 30-40° TCA. | | | 142.00 | 426 |
| | | | | 143.73 m to 145.00 m - patchy v.f.g. to f.g. anh fl, 1-5% locky *fl dol-Carb*. | | | 145.00 | 390 |
| | | | | | | | | |
| | | | | proximal to 123.37 m min - 0, proximal to 127.23 m max - 517, avg - 410. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | Colour: 5Y 6/1, 5Y 7/2. | | | | |
| | | | | minerology: 97-98% v.f.g. to very rare m.g. anh to very rare euh dol trace - 2% v.f.g. anh bsn/prs, trace - 1% v.f.g. anh fl, trace ap? (b-w fluorescence), qtz, py, sph. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------------------------|------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 153.30 | 204.60 | dol-Carb | - | 145.95 m to 153.30 m - dominantly intermingled v.f.g. to f.g. 5Y 7/2, 10Y 6/2, 5Y 6/1, 5Y 8/1 dol with rare bnds of f.g. to m.g. anh to euh N8 dol pbls, few x-cut dol-Carb vns, loclized perv 5R 6/6 bsn/prs mineralization, rare x-cut qtz fl vns + isolated v.f.g. anh f. patches, loclized brc. mottled, hetero. | ctc @ 145.95 m - grad colour change. | 145.95 m to 153.30 m - | | |
| | | | | 145.95 m to 147.16 m - patchy v.f.g. anh fl proximal to x-cut qtz fl vns. | | | | |
| | | | | @147.81 m - og v.f.g. anh, min wkly effervesces wth HCL, H+~4.0, possibly alt of bsn/prs?. | | | 148.00 | 299 |
| | | | | 150.06 m to 150.26 - wkly perv v.f.g. 5R 6/6 bsn/prs ~5%. | | | | |
| | | | | 150.40 m to 151.00 m - frac-rel v.f.g. 5R 6/6 bsn/prs 1-3% ± v.f.g. anh fl. | | | 151.00 | 261 |
| | | | | @153.30 m - substantial txt + colour change, core darkens + becomes wkly bnded, psd brc. | ctc @ 153.30 m sharp 30° TCA. | | | |
| | | | | proximal to 151.00 m - min 230, proximal to 147.00 m - max 439, avg 320. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: 5Y 6/1, 5Y 5/2. | | | | |
| | | | | minerology: 70-75% v.f.g. to v. rare m.g. anh to v. rare euh (equant rhombs) dol, 10-20% f.g. 10YR 5/4 (mod y-br) anh to suh effervescing min → dol? Fe-dol? trace - 15% v.f.g to f.g. anh fl, trace bsn/prs, sph, py, qtz. | | | | |
| | | | | 153.30 m to 204.60 m - dominantly alternating bnds of v.f.g to f.g. 5Y 6/1, 5Y 5/2, 10Y 6/2 dol + f.g. 10YR 5/4 anh to suh dol? Mg-sph? locly perv v.f.g. to f.g. anh 5P 2/2 fl patches throughout → locly *fl dol-Carb*. rare anh to euh f.g. to m.g. N8 dol pbls, trace 10R 4/6 v.f.g. anh bsn/prs, rare x-cut qtz vnlets. few late stage x-cut dol-Carb vns. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 153.30 m to 154.82 m - abnt healed fracs infill consists of 5Y 2/1 (ol-blk) v.v.f.g. sul ± chl @154.43 to 154.45 m - clsts? of v.v.f.g. N8 (v. lt gy), no effervescence with HCL, H=1-2, slimey when powder + mixed with water possibly drilling mod fracs into vug? sharp boundry between clst? + host Carb. | | | | |
| | | | | 153.30 m to 204.60 m - v.f.g. to f.g. anh 5P 2/2 occuring as concentrated patches, loclized wkly perv diss bndg spare blebs and x-cut fl vnlets. loclly →*fl dol-Carb*, up to ~15% fl. | 153.30 m to 204.60 m subtle bndg, 30 - 40° TCA. | 153.0 m to 204.60 m - wkly bnded mottled. | 154.00 | 370 |
| | | | | 154.71 m to 154.83 m - v.v.f.g. N5 sph. | | | | |
| | | | | 155.45 m to 155.57 m - v.f.g. to f.g. anh fl, patch + concentrated pod up to ~15%. | | | | |
| | | | | 156.18 m to 156.68 m - lenses of pblc 5Y 8/1 dol-Carb → f.g. anh to euh dol pbls. | | | | |
| | | | | 156.96 m to 157.06 m - x-cut v.f.g. 5Y 5/2 dol-Carb vn. | | | 157.00 | 405 |
| | | | | 157.38 m to 157.45 m - v.f.g. patchy fl + v.f.g. og wkly effervescing min, H=3-4, altered bsn/prs. | | | | |
| | | | | 159.48 m to 160.26 m - sparse patchy v.f.g to f.g. anh fl ± qtz + fl vnlets and psd brc sub-rnd pods of f.g. anh to suh cream dol (5Y 8/1). | | | 160.00 | 433 |
| | | | | 162.00 m to 162.60 m - common x-cut fl vns, loclly perv fl bnds. | | | 163.00 | 439 |
| | | | | 167.13 m to 167.40 m - sub-rnd to sub-ang pods of f.g. anh to suh 5Y 8/1 (y-gy → cream) dol; ~5 mm x-cut fl vn of 167.38 m with alt halo. | 167.38 m - c-cutting fl vn 30° TCA. | | 166.00 | 510 |
| | | | | 167.84 m to 168.10 m - patches + infilled fracs with 5GY 2/1 (gr-b) v.v.f.g. sul? ± chl, suh py accompanies, @168.03 m v.v.f.g. to v.f.g. 10YR 2/2 (dusky y-br) min, H= 3~4, no effervescence with HCL. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 168.00 m to 168.66 m - x-cut late stage dol-Carb vn (5Y 6/1, v.f.g.) undulating along CA. | | | 169.00 | 520 |
| | | | | 169.74 m to 169.79 m - patch of v.v.f.g. sul? ± chl (5GY 2/1) with f.g. suh py + ukn 10YR 2/2 (168.03 m) min. small frac network penetrating Carb. | | | | |
| | | | | 170.92 to 170.95 m - x-cut v.f.g. dol-Carb vn. @170.93 - x-cut dol-Carb vn 25° TCA. | | | | |
| | | | | 171.34 to 171.60 m - concentrated fl mineralization with v.f.g. 10Y 8/2 (pale gr-y) REflc? bsn? H=3, wkly effervesces with HCL. | | | | |
| | | | | 171.34 to 171.60 m -large (up to 4cm) blebs of v.f.g. fl and wkly perv diss bnds with REflc? | | | 172.00 | 469 |
| | | | | 172.64 m to 175.59 m - mottled, trace fl, lighter colouration → 5Y 7/2. | | | | |
| | | | | 175.00 m - localized CPS high, no viable mineralization CPS → 691. | | | 175.00 | 691 |
| | | | | 175.10 m - vuggy patch, some infilled by suh f.g. py. | | | | |
| | | | | 176.15 m to 176.33 m - 2-3% v.f.g. to f.g. anh to euh py. | | | | |
| | | | | 176.40 m to 176.57 m - x-cut 5Y 6/1 v.f.g. dol-Carb vns. | | | | |
| | | | | 176.56 m to 176.61 m - concentrated v.f.g. fl. bnd with REflc? | | | | |
| | | | | 177.00 m to 178.03 - common x-cut fl vnlets + proximal patchy v.f.g. fl. | | | 178.00 | 532 |
| | | | | 178.50 m to 179.25 m - abnt x-cut fl vnlets + proximal patchy v.f.g. fl. | | | | |
| | | | | 179.89 m to 179.967 m - bnd with N8 f.g. to rare m.g. anh to suh dol pbls. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 182.63 to 185.54 m - x-cut fl vnlets and locally perv diss fl bnds, x-cut vnlets have general orientation 35-45° TCA. | | | 181.00 | 497 |
| | | | | 189.57 m to 195.07 m - common x-cut fl vnlets, no preferential orientation. | | | 184.00 | 458 |
| | | | | | | | 187.00 | 380 |
| | | | | | | | 190.00 | 433 |
| | | | | 193.22 m to 195.11 m - pods, bnds + lenses of N8 f.g. anh to suh dol pbls → mtx-supported brcs? | | | 193.00 | 467 |
| | | | | 195.51 m - v.f.g. met silver min, v. soft H=1-2, possibly molybdenite? | | | | |
| | | | | 195.88 m to 196.02 m - mottled fl dol-Carb bnd, vuggy cr coloured dol mottles. | | | 196.00 | 546 |
| | | | | 199.00 m to 200.00 m - v.f.g. 10YR 7/4 (gy-og) min in diss patches REflc? Fe-dol? | | | 199.00 | 511 |
| | | | | @199.37 m - v.f.g. 5Y 8/1 (y-gy) min occurring with v.f.g. fl + py, REflc? | | | | |
| | | | | @199.49 m - f.g. anh 5YR 4/9 (med br) min in N8 dol vn. | | | | |
| | | | | 201.93 m to 201.39 m - v.f.g. to f.g. anh to suh dol pbls? healed fracs and x-cut fl vnlets throughout. | | | 202.00 | 534 |
| | | | | 202.68 m - aggregate of f.g. anh to suh 5Y 8/1 min, H=3.0 REflc? | | | | |
| | | | | 203.70 to 204.22 m - broken core → end of run. | | | | |
| | | | | proximal to upper ctc - min 360, proximal to 175.00 m - max 691, avg 520. | | ctc @204.60 m - grad dk colour ↑ fl vnlets. | | |
| 204.69 | 214.94 | dol-Carb | - | <u>fl dol-Carb</u> | | ctc @222.89 sharp 30° TCA. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: 5Y 5/2, 5Y 4/1.</p> <p>minerology: 90-98% v.f.g. to f.g. dol, 2-10% v.f.g. to v. rare m.g. anh to sparse suh fl, trace py, bsn.</p> <p>204.60 m to 214.94 m - v.f.g. to v. rare m.g. anh to sparrse suh fl occuring as x-cut vnlets, loclized wispy diss bnds mottled patches and sparse concentrated bnds or blebs. wkly mottled to mass.</p> <p>204.60 m to 214.94 m - v.f.g. to f.g. anh 5Y 5/2, 5Y 6/1, 5Y 4/1 dol with frequent x-cut v.f.g. fl vnlets. fl is wkly perv throughout interval, regularly occuring wispy diss bnds and mottled patches. few late stage x-cut dol-Carb vns.</p> <p>205.30 m to 205.34 m - x-cut N6 (mod lt gy) suc dol vn; v.f.g. to f.g. anh to suh py and rare v.f.g. galena, sph probably present.</p> <p>206.00 m to 208.00 m - 10% v.f.g. to f.g. fl sparse v.f.g. 5Y 8/1 REflc? accompanies.</p> <p>206.86 m to 206.90 m - x-cut 5Y 6/1 v.f.g. dol-Carb vn with entrained sub-rnd pods of N8 f.g. suh dol.</p> <p>210.00 m to 211.57 m - common x-cut 5Y 6/1 v.f.g. dol-Carb vns, typically cm scale, random orientations and undulatory.</p> <p>212.60 m to 212.90 m - sub-rnd pods of 5Y 8/1 f.g. anh to suh dol, up to ~3 cm.</p> <p>213.50 m - core begins to lighten, increasingly mottled appearance.</p> | | | | |
| | | | | | | | 205.00 | 700 |
| | | | | | 206.88 m - x-cut dol-Carb vn, 35° TCA. | | 208.00 | 600 |
| | | | | | | | 211.00 | 565 |
| | | | | | ctc @ 214.94 grad, colour change → lt. | | 214.00 | 525 |
| | | | | proximal to 213.00 min - 460, proximal to 205.00 m max - 700, avg - 575. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|-------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 214.94 | 222.89 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour 5Y 7/2, 5Y 6/1.</p> <p>minerology: 93-97% v.f.g. to f.g. anh dol, 3-7% v.f.g. to f.g. anh fl, true qtz, py, bsn.</p> <p>214.94 m to 222.89 m - v.f.g. 5Y 7/2, 5Y 6/1, 5Y 5/2 anh dol with sparse irregular bnds + mottles of v.f.g. to f.g. 5Y 8/1 dol. x-cut v.f.g. fl vnlets common throughout unit, locally perv patches of wispy fl blebs. sparse x-cut dol-Carb vns, common healed fracs → typically v.f.g. 10GY 5/2 (gy-gr) dol.</p> <p>214.94 to 222.89 m - v.f.g. to f.g. occurring as x-cut fl vnlets, mottled patches and py blebs. sparse x-cut dol-Carb vns common healed fracs → typically v.f.g. 10GY 5/2 (gy-gr) dol.</p> <p>219.46 m to 220.00 m - 10-15% v.f.g. to f.g. perv patchy fl + wispy blebs, f.g. anh to rare euh N8 dol pblc? 219.73 m to 219.78 m - x-cut 5Y 6/1 v.f.g. dol-Carb vn with c.g. suh grain? + v.f.g. 10YR 6/6 (honey-br) min, xenotime? bsn? 219.85 m to 219.91 m - concentrated blebs of v.f.g. fl with v.f.g. 5Y 8/1 REflc?</p> <p>221.83 m to 222.02 m - N9 v.f.g. with m.g. anh to suh translucent fl, vn does not fully penetrate core.</p> <p>proximal to 220.00 min 392, proximal to 222.75 max 558, avg 450.</p> | | 214.94m to 222.89m - mottled. | | |
| 222.89 | 234.97 | dol-Carb | - | <p><u>fl dol-Carb</u></p> <p>colour: 5Y 4/1, 5Y 6/1.</p> <p>minerology: 90-97% v.f.g. to f.g. anh dol, 3-10% v.f.g. to f.g. anh fl, trace qtz, py, hem, cc, lim, bsn.</p> | | | | |

ctc @ 222.89 sharp 30° TCA.

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|-----------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 222.89 m to 234.97 m - v.f.g. to f.g. 5Y 4/1, 5Y 6/1, 5Y 5/2 dol-Carb x-cut by fl stockworks of varying intensity. locky unit appears mass or mottled but brc is prevailing text, intense brc throughout | | 222.89 m to 234.97 m - brc. | | |
| | | | | 224.08 m to 226.20 m - [healed fracs typically infilled by fl generating stockwork. brc zones are dominantly clst-sup, locky mtx. brc dol-Carb clsts range from v.f.g. to v.c.g. and sub-ang to ang. shallow angle, vuggy healed fracs undulating along CA, some exceeding per m. sks to skl present along with hem/lim on frac surfaces, possible healed FZ. ~10% fl over zone]. frequency + intensity of fl stockwork decreases with increasing depth, clsts often have sutured margins. fl occurs in patches + wispy blebs. structure: probable healed brittle FZ or proximal to FZ, sks with skl @ 226.65 m 10° TCA r=70°, HW ↓ C5. | | | | |
| | | | | 222.89 m - sharp ctc between mottled ltr (tan), dol-Carb and brc, dk (ol-gy) dol-Carb, txt change from mottled to mtx-sup brc → f.g. to m.g. ang, tan coloured clsts in v.f.g. ol-gy dol mtx, appearance of Fe OX/OH stained shallow fracs. | | | 223.00 | 370 |
| | | | | 223.30 m - vuggy pocket with v.v.f.g. cc and 5R 3/4 (dusky red) anh to euh (rhomb) min, H= ~4.5, = wk effervescence with HCL → sid?, anh to suh f.g. py proximal. | | | | |
| | | | | 223.87 m - suture penetrates core → above mass to mottled dol-Carb, below transition into intense brc. | | | | |
| | | | | 224.12 to 226.20 m - shallow frac undulates along CA, stained with hem or lim, sks/skl on open frac surfaces. | | | | |
| | | | | 225.00 m - N9 (w) and 5B 5/1 (med b gy) dol-qtz vns immediately proximal to shallow angle hem frac. | | | 226.00 | 700 |
| | | | | | | | 229.00 | 680 |
| | | | | 231.77 m to 231.79 - v.f.g. 5Y 7/2 x-cut dol-Carb vn. | | | | |
| | | | | | | | 232.00 | 690 |
| | | | | 231.82 m to 231.95 m - ang v.f.g. fl patches with v.f.g. 10R 3/4 dk r-br bsn? | | | | |
| | | | | 232.43 m to 232.58 m - wispy v.f.g. fl patches with v.f.g. 10R 3/4 bsn ~10%. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------------------|-----------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 234.97 | 238.43 | dol-Carb | - | <p>proximal to 223.00 min 370, proximal to 232.50 m max 1110, avg 775.</p> <p><u>dol-Carb</u></p> <p>Colour 5Y 6/1, 5Y 4/1.</p> <p>minerology - 93 to 98% v.f.g. to f.g. anh dol, 2-5% v.f.g. to f.g. anh fl, trac py, qtz, mag, po.</p> <p>234.97 to 238.43 m - v.f.g. to f.g. 5Y 6/1, 5Y 4/1, 5Y 5/2 dol-Carb with common x-cut fl vnlets, locly wk stockworks. common 10YR 6/2 (pale y-br) x-cut v.f.g. dol-Carb vns, often brc + displaced, rare mottled fl patches. abnt healed fracs commonly infilled by v.f.g. dol-Carb ± v.f.g. to f.g. anh to suh py ± v.f.g. chl ± sul. v.rare aggregated patches of v.v.f.g. mag ± v.f.g. py + po. sparse sutures. (clst-sup brc, f.g. to c.g. sub-ang to ang dol-Carb clsts).</p> <p>234.36 m - ~1 cm x-cut 10YR 6/2 dol-Carb-with fl min along margin.</p> <p>234.72 m to 234.80 m - x-cut brc dol-Carb min with abnt stylolites + sutured clsts.</p> <p>ctc @ 238.43 m - grad increasing mag + po content.</p> <p>proximal to 237.50 m - min 605, proximal to 235.50 m - max 1003, avg 800.</p> | ctc@ 234.97 m - sharp 50° TCA. | 234.97 m to 238.43 m - brc. | 235.00 | 834 |
| 238.43 | 263.30 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour 5Y 4/1, 5Y 5/2.</p> <p>minerology - 95-97% v.f.g. to f.g. anh dol, 1-4% v.f.g. to f.g. anh fl, trace-2% v.f.g. to f.g. anh to suh py, trace po, mag, hem, lim, cc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|-----------------------------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 238.43 m to 263.30 m - v.f.g. to f.g. 5Y 4/1, 5Y 5/2, 5Y 6/1 dol-Carb-with abnt healed frac throughout + sparse structures. common x-cut v.f.g. 10YR 6/2 dol-Carb vns typically-brc with sutures and displaced fragments. mag occurs as irregular v.v.f.g. v.f.g. aggregates, frac infilled/fine vns and wk disseminations. fl typically occurs as x-cut vnlets, rare patches, bnds, and blebs. rare hem/lim coatings/stains on some frac, mag usually proximal. overall clst-sup brc. locl mtx-sup bnds, clsts sub-ang to ang. f.g. to c.g., common sutured grain boundaries. | | 238.43 m to 247.00 m - brc. | 238.00 | 830 |
| | | | | 239.64 m to 239.71 m - brc 10YR 6/2 v.f.g. x-cut dol-Carb vn, v.v.f.g. to v.f.g. mag frac infill + nearby mag aggregate ~3 cm. | 239.68 m - x-cut dol-Carb vn ~43° TCA. | | 241.00 | 926 |
| | | | | 242.94 m - v.f.g. anh 5YR 5/6 min, no effervescence with HCL, H= 4.5-5.0, possibly mnz? | | | | |
| | | | | 243.42 m to 243.62 m - brc + displaced v.f.g. 10YR 6/2 x-cut dol-Carb vn. @243.50 m - x-cut dol-Carb vn ~25° TCA. | | | | |
| | | | | @244.09 m - f.g. suh py with v.f.g. 10R 4/6 (mod r-br) hem + N3 (dk gy) v.f.g. mag. | | | 244.00 | 1089 |
| | | | | 245.50 m - brc becomes less apparent, frequency + concentration of healed frac begins to decrease unit appears relatively mass, brc still evident in 10YR 6/2 x-cut dol-Carb vn. frequency of visible - v.f.g. 5YR 5/6 min mnz increases → corresponding CPS highs? | | | 247.00 | 1122 |
| | | | | 249.50 m to 253.30 m - abnt x-cut dol-Carb vns, often displaced or truncated by frac, vns undulate throughout core, no preferred orientation. | | | 248.00 | 1354 |
| | | | | 253.80 m - 10YR 7/4 (gy-og) m.g. anh dol vn. | | | 249.00 | 903 |
| | | | | | | | 250.00 | 1260 |
| | | | | | | | 251.00 | 1450 |
| | | | | 255.00 m ti 255.70 m - wk x-cut fk stockwork. | | | 252.00 | 780 |
| | | | | | | | 253.00 | 1306 |
| | | | | 257.00 m to 257.39 m - fl stockwork with v.f.g. 5YR 5/6 ukn min, H= 4.0 - 4.5, mon? REflc? | | | 254.00 | 1176 |
| | | | | | | | 255.00 | 946 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|----------------------------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 264.88 | 293.21 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour: 5Y 6/1, 5Y 5/2</p> <p>minerology: ~97% v.f.g. to f.g. anh dol 1-2% v.f.g. to f.g. anh to sparse euh py, trace-1% v.f.g. to f.g. anh fl trace sph, po, mag, bsn, ilm.</p> <p>264.88 m to 265.93 m - sub-ang to ang clsts of 5Y 6/1, 5Y 5/2 v.f.g. to f.g. dol-Carb abnt sutures throughout. sutures typically filled with v.v.f.g. N2 (g-blk) material → sul? mafics? often accompanied by v.f.g. to f.g. anh to euh py. sparse v.f.g. typically-brc x-cut 5Y 6/1 dol-Carb vns, fl occurs as isolated blebs.</p> <p>265.65 m - 3 cm fl bnd with v.f.g. py + v.f.g. 10R 3/4 bsn?</p> <p>265.93 m to 293.21 m - 5Y 6/1, 5Y 5/2 v.f.g. to f.g. dol-Carb, common to abnt healed frac + sutures, common x-cut 10YR 6/2 - 5Y 6/1 v.f.g. dol-Carb vns core dominantly appears mottled. locly clst-supported brc or psd brc. sutures typically composed of N2 v.v.f.g. sul? mafics? fl is rare occurring most commonly as distorted blebs up to ~2 cm mag occurs v.v.f.g.g aggregated patches or as rare vnlets. hetero → mottled, brc.</p> <p>266.50 to 268.36 m - prevalent orientation of x-cut dol-Carb vns 40-50° TCA. abnt x-cut v.f.g. 10Y 6/2 5Y 6/1 dol-Carb vns often fragmented + displaced by sutures, truncated x-cut dol-Carb vn @268.36 m.</p> <p>268.07 m to 268.22 m - anh blebs 5YR 4/1 (br-gy) throughout alt? clsts.</p> <p>268.50 m to 269.50 m - bnds + pods pf N8/N9 f.g. anh to auh dol large bnds with f.g. to m.g. anh to euh N9 dol pbls @268.86 m to 268.96 m.</p> <p>270.32 m - ~6 cm fl patch with v.f.g. anh to suh py + v.f.g. 10R 3/4 bsn?</p> | | | | |
| | | | | | | 264.88 m to 265.93 m -brc. | | |
| | | | | | | 265.93 m to 293.21 m - | | |
| | | | | | | | 267.00 | 1266 |
| | | | | | 268.88 m - x-cut pbic dol-Carb band, 40° TCA undulating. | | | |
| | | | | | | | 270.00 | 1080 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-------------------------------------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 270.50 m - truncated x-cut 10YR 6/2 dol-Carb vn, vn truncated by mottled 5Y 6/1 dol-Carb. | | | | |
| | | | | 272.39 m to 272.62 m - 5Y 6/1 x-cut dol-Carb vn 272.39 m to 272.44 m - dol-Carb vn truncates sul dol vn, sul includes po, py, galena, and sph, v.v.f.g. N2 mag occurs along sul dol vn margin. N3 clsts of altrd dol-Carb, 272.50 m to 272.62 m - appear to have been pervaded by sul. trace v.f.g. honey-br (5YR 5/6) possibly sph → sul order in rxn with HCL. | 272.42 m x-cut dol-Carb vn 33° TCA. | | | |
| | | | | @273.00 m - aggregated mass of N3 sul, trace mag, rare m.g. euh py + f.g. anh po. | | | 273.00 | 1112 |
| | | | | 275.00 m to 275.30 m - perv 5YR 3/2 (gy-br) min, v.f.g., bsn? | | | | |
| | | | | 276.00 m to 276.55 m - 10YR 6/2 x-cut dol-Carb vns, largest ~2 cm, 45-55° TCA. | | | 279.00 | 1065 |
| | | | | 280.16 m to 282.00 m - v.f.g. 5YR 3/2 bsn? | | | | |
| | | | | 281.60 m to 284.52 m - v.f.g. 5YR 3/2, 10R 4/6 bsn? | | | | |
| | | | | 284.06 m to 285.45 m - bnds of clst-sup brc f.g. to c.g., ang to sub-ang dol-Carb, itsl fill is typically N3 v.v.f.g. sul ± dol, po, py and galena visible. | | | 282.00 | 1133 |
| | | | | 285.61 m to 286.71 m - v.f.g. 10R 4/6 bsn. | | | 285.00 | 1138 |
| | | | | 286.61 m to 286.71 m - bnds of v.v.f.g. + v.f.g. to f.g. po. | | | | |
| | | | | 287.35 m to 292.08 m - v.f.g. 10R 4/6, 5YR 3/2 bsn trace to 3%. | | | | |
| | | | | 288.73 m to 289.13 m - distorted 10YR 6/2 dol-Carb vn x-cut @10-20° TCA. | | | 288.00 | 900 |
| | | | | 292.08 m to 293.26 m - v.f.g. to f.g. 5Y 4/1 dol-Carb with f.g. to m.g. anh to suh N9/N8 dol pbls dism py, po in loclized patches or stingers. | | | 291.00 | 946 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-------------------|------------------|---|--|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 293.20 | 300.98 | dol-Carb (F-Carb) | - | <p>proximal to 292.70 m min - 679, proximal to 290.15 m max - 1212, avg - 1075.</p> <p><u>mag dol-Carb</u></p> <p>colour: 5Y 6/1, N4.</p> <p>minerology: 88-92% v.f.g. to f.g. anh dol, ~5% v.v.f.g. to rare m.g. anh mag, trace-3% to f.g. anh to suh py trace-1% v.f.g. to f.g. anh po trace qtz, galena, sph, bsn, fl.</p> <p>293.21 m to 300.98 m - v. hetero, assorted of clst and mtx-sup brc, mottled and psd-brc text. unit is dominantly either 5Y 6/1 or N4 v.f.g. to f.g. anh dol. frequent sutures and stingers of v.v.f.g. N1 (black) to N3 (dk gy) material mafics? or sul? accompanied by py, po, rare galena and sph. aggregates of N1-N3 material often contain v.v.f.g. mag, or mag is proximal to sul stingers. abnt x-cut 10YR 6/2 dol-Carb vns often distorted, fragmented, or overprinted by sul stingers. v. rare x-cut qtz vnlets.</p> <p>297.16 m to 297.36 m - pods, typically ~1 cm of N9/N8 v.f.g. to f.g. anh dol.</p> <p>297.76 m - ~4 cm patches of v.f.g. aul, anh v.f.g. 5Y 3/2 (gy-br) sph present.</p> <p>300.95 m to 300.99 m - mtx-sup brc bnd, ang to sub-rnd f.g. to c.g. clsts of 5Y 4/1 dol-Carb in v.v.f.g. 5YR 2/1 (br-blk) mtx. ctc @ 300.98 m sharp 60° TCA wkly undulating.</p> | ctc @ 293.21 m - grad text change, ↑mag. | 293.21 m to 300.98 m - hetero dominantl y-brc. | | |
| | | | | 294.00 | | | 601 | |
| | | | | 297.00 | | | 740 | |
| | | | | 300.00 | | | 900 | |
| 300.98 | 320.95 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>Colour: N5, 5Y 6/1.</p> <p>minerology: 93 - 95% v.f.g. to f.g. anh dol, trace-2% v.f.g. to f.g. anh to suh py, trace-2% v.f.g. to f.g. anh po, trace-1% v.v.f.g. to v.f.g. anh mag, trace - 2% v.f.g. anh bsn, trace qtz, ilm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 300.98 m to 308.33 m - hetero dominantly mottled + psd brc, brc zones, clst and mtx-sup. N3, 5Y 6/1, 5Y 4/1 v.f.g. to f.g. anh dol. common N2-N1 sul/mafic sutures + healed fracs. sparse to common x-cut 10YR 6/2 dol-Carb vns. diss py + po throughout, highest concentrations associated with aggregated sul/mafic patches + sutures. mag vns. rare x-cut qtz vnlets. | | | | |
| | | | | 302.00 m to 302.60 m - v.f.g 10R 5/4 bsn? diss throughout. | | | | |
| | | | | 302.00 to 303.18 m - clst-sup brc, abnt healed fracs + sul/mafic sutures, clsts consist of ang ol-gy (5Y 4/1) dol-Carb, f.g. to c.g. | | | | |
| | | | | 303.19 m to 304.00 m - v.f.g. 10YR 5/4 (mod y-br) min occuring in aggregated diss patches. | | | 303.00 | 1006 |
| | | | | | | | 306.00 | 1200 |
| | | | | 304.05 m to 305.44 m - v.f.g. 10R 4/6 diss bsn? throughout, 2-3%. | | | 309.00 | 1022 |
| | | | | | | | 312.00 | 910 |
| | | | | 305.42 m to 305.60 m - aggregated py patches, 5-7% v.f.g. to f.g. anh to suh py. | | | | |
| | | | | 305.42 m to 305.60 m - aggregated py patches, 5-7% v.f.g. to f.g. anh to suh py. | | | | |
| | | | | 305.65 m to 306.36 m - mottled and swirly mtx-sup brc? v.f.g. 10YR 6/2, N4 dol mtx with f.g. to m.g. N8, 5Y 8/1 dol-Carb clsts. 1-2 mm vugs throughout often coated or partially infilled with v.f.g. 5R 4/6 (mod r) min, bsn/prs? | 305.65 m to 306.60 m - long frac, undulating down core axis. | | | |
| | | | | 306.50 m to 307.59 m - abnt x-cut 10YR 6/2, 5Y 6/1 v.f.g. dol-Carb vns. | | | | |
| | | | | 307.00 m to 308.23 m - abnt healed fracs + sul/mafic sutures, loclly clst and mtx-sup brc. | | | | |
| | | | | 308.23 m to 309.49 m - brc, dominantly mtx-sup, f.g. to c.g. 5Y 8/1, N8 rnd-ang dol-Carb clsts in v.f.g. N3 (dk gy) sul (po py) dol mtx, pods bnds and lenses of dol-Carb clst-sup brc. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>309.49 m to 320.95 m - dominantly mottled, common sul/mafic stingers + healed fracs x-cut 10YR 6/2, 5Y 6/1 dol-Carb vn, often distorted pods bnds + lenses of mtz or clst-sup dol-Carb brc mag occurring as diss aggregated patches or proximal sul/mafic stingers, possibly v.v.f.g. po.</p> <p>311.09 m to 311.35 m - v.f.g. 10YR 5/4 min and v.f.g. 10YR 8/2 (very pale og) min, occurring together in diss patches, REflc? H=3.5-4.0, wk effervescence with HCL.</p> <p>311.79 m to 312.07 m - ~2 cm dol-Carb vn v.f.g. 10YR 6/2 running along core axis, truncated by sul/mafic stingers @311.79 m, stinger contains v.v.f.g. N3 material, f.g. anh to suh py + po + chalcopryite, vn appears to have been overprinted @~312.07 m.</p> <p>313.23 m to 313.41 m - x-cut sul-dol stinger. ~40% v.v.f.g. to f.g. anh to euh sul including py, po, chalcopryite.</p> <p>314.00 m to 315.00 m - v.f.g. 10YR 5/4, 10R 4/6 bsn?</p> <p>315.00 m to 315.10 m - bnd of v.f.g. 5Y 6/1 dol-Carb with N8 f.g. to m.g. anh to euh dol pbls.</p> <p>315.50 m to 316.99 m - v.f.g 10YR 5/4 bsn? wkly perv.</p> <p>317.80 m to 319.00 m - diss patches of v.f.g. 10YR 5/4 bsn?</p> <p>proximal to 318.50 m min - 600, proximal to 306.00 max (blank), avg - 920.</p> | | | | |
| 320.95 | 325.73 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour: 5Y 4/1, 5Y 8/1.</p> <p>minerology: 95-97% v.f.g. to m.g. anh to suh dol, trace-2% v.f.g. to f.g. anh to suh py, trace-1% v.f.g. to f.g. anh po, trace-1% v.v.f.g. to rare f.g. anh mag, trace fl, qtz, chalcopryite, galena.</p> | | | 315.00 | 780 |
| | | | | | | | 318.00 | 920 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|------------------------|------------------|--|---|-------------------------------|------------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| 325.73 | 333.30 | dol-Carb (mafic? Carb) | - | <p>320.95 to 325.73 m - mtx-sup brc → v.f.g. 5Y 6/1 dol mtx with f.g. to m.g. ang to rnded 5Y 8/1 dol-Carb clsts. common stingers + healed fracs over interval typically composed/infilled by v.v.f.g. N2 material → sul/mafics. py, po and other visible sul associated with stingers, v.v.f.g. mag also associated with sul stingers + vns → possible v.v.f.g. po + sparse x-cut 5Y 5/2 dol-Carb vns, often displaced.</p> <p>321.46 m - po vn with f.g. euh py + v.v.f.g. mafic/sul.</p> <p>325.00 m to 325.00 - bnds of v.f.g. to f.g. patchy 5P 2/2 anh fl occuring with v.f.g. to f.g. anh py and po. text suggests fl may be related to po and py. fl and py occur in proximity to pods + pinched lenses of m.g. 5Y 8/1 dol-Carb.</p> <p><u>dol-Carb</u></p> <p>colour: 5Y 4/1, 5Y 6/1.</p> <p>mineralogy: 95-98% v.f.g to f.g. anh dol, 1-2% v.f.g. to f.g. anh po, 1-2% v.f.g. to f.g. anh py, trace-1% v.f.g. to f.g. anh fl, trace ilm, qtz, galena, sph, bsn.</p> <p>325.73 m to 327.38 m - mod perv v.f.g. 10R 4/6 bsn.</p> <p>325.73 m to 333.30 m - dominantly v.f.g. to f.g. 5Y 4/1, 5Y 6/1 dol-Carb-with common healed fracs + sul stingers + vns. randomly distributed bnds of sul with fl often occuring proximal to margins. common x-cut 1-YR 6/2 v.f.g. dol-Carb vns.</p> <p>326.80 m to 327.03 m - ~2 cm wide x-cut 10YR 6/2 dol-Carb vn → truncates against suture @326.80 m. ~17° TCA, truncated by 50° suture.</p> | | | 321.00 324.00 | 919 833 |
| | | | | | ctc @333.30 m sharp 55° TCA, wkly undulating. | 325.73 to 333.30 m - mottled. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 333.30 | 355.19 | dol-Carb | - | 327.38 m to 327.54 m - irregular distorted bnds with N4 v.v.f.g. to v.f.g. sul dol core + v.v.f.g. to v.f.g. fl margins. visible v.f.g po and py. | 328.00 m - sul vn, ~30° TCA, wkly undulating. | | 327.00 | 691 |
| | | | | 328.00 m - x-cut magnetic sul-dol vn, visible v.f.g. to f.g. | | | | |
| | | | | 328.64 m to 328.67 m - fragmented + entrained clst of 5Y 8/1 f.g. sul dol-Carb. | | | | |
| | | | | ~329.00 m - suture truncated lense of 10YR 6/2 v.f.g. dol-Carb vn. | | | | |
| | | | | 332.39 to 332.49 m - mass fl-dol-sul vn with entrained v.c.g. N8 f.g. anh dol-Carb clst (ang). | | | | |
| | | | | 331.47 m to 331.81 m - v.f.g. 10R 4/6 bsn patches. | | | 330.00 | 766 |
| | | | | 332.89 m to 333.04 m - mass fl, dol, sul vn. | | | | |
| | | | | ctc @333.30 m - sharp ctc. | | | 333.00 | 655 |
| | | | | <u>po py mag (mafic) dol-Carb</u> | | | | |
| | | | | colour: 5Y 4/1, 5Y 5/2. | | | | |
| | | | | mineralogy: ~75% v.f.g. to f.g. anh dol, ~5% v.f.g. to f.g. anh po, ~5% v.f.g. to f.g. anh to sul py, ~5% v.v.f.g. to v.f.g. anh mag, ~10% v.f.g. to m.g. ang to sub-rnd mafic fragments, trace bsn, qtz, fl. | | | | |
| | | | | 333.30 m to 355.19 m - mtx-sup brc → mtx consists of v.f.g. 5Y 4/1, 5Y 5/2 dol with clsts range from f.g. to v.c.g. varying composition but majority are sub-ang to ang. dominant clst compositions are either 5Y 8/1 dol-Carb or 5G 3/2, 5Y 2/1 amp, and other mafic fragments with siliceous compositions as no effervescence with HCL. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>sul (po, po) associated with common to abnt N3 v.v.f.g. sutures throughout interval v.v.f.g. mag tends to occur proximal to these or larger x-cut sul vns + ilm. mag also occurs as rare cm scale x-cut bnds/vns. v. rare x-cut dol-Carb vns, some clsts are likely vn fragments.</p> | | | | |
| | | | | 333.30 m to 334.20 m - f.g. to m.g. dominant clst population. | | | 336.00 | 701 |
| | | | | 334.20 m to 335.06 m - f.g. to c.g. dominant clst population. | | | 339.00 | 873 |
| | | | | 335.06 m to 336.54 m -f.g. dominant clst population. | | | 342.00 | 931 |
| | | | | 336.54 m to 337.85 m - f.g. to v.c.g. dominant clst population with clst-sup m.g. brc from 337.18 m to 337.32 m. | | | 345.00 | 902 |
| | | | | 337.85 m to 338.69 m - mottled to mass appearance, few clsts. | | | 348.00 | 900 |
| | | | | 338.72 to 339.24 m - large x-cut dol-Carb vn, 5Y 5/2 v.f.g. 339.00 m - x-cut dol-Carb vn 15° TCA. | | | 351.00 | 828 |
| | | | | 339.24 m to 355.19 m - clsts are dominantly f.g. to c.g., v.c.g. tend to occur in clusters. | | | 354.00 | 834 |
| | | | | 339.94 m to 339.98 m - x-cut N2 v.f.g. mag vn. 339.96 m - x-cut mag vn 43° TCA. | | | | |
| | | | | 341.14 m to 341.23 m -x-cut sul-mag vn. | 341.18 m - x-cut mag vn 43° TCA. | | | |
| | | | | 343.53 m to 343.64 m - x-cut mag dol-Carb vn. | 343.60 m - x-cut mag dol-Carb vn, 40° TCA. | | | |
| | | | | 348.69 m - x-cut qtz vn. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---|-----|
| | | | | | | | DEPTH (m) | CPS |
| 355.19 | 369.40 | - | - | 349.00 m to 349.33 m - 50% of core = mtx-sup dol-Carb brc, 50% = mottled v.f.g. 5Y 5/2 dol-Carb- with wispy fl blebs. | | | | |
| | | | | 350.45 m to 350.65 m - x-cut v.f.g. 10YR 6/2, N3 mag dol-Carb vn. | | | 350.50 m - x-cut mag dol-Carb vn 35° TCA. | |
| | | | | 352.50 m to 355.19 m - abnt x-cut 10YR 6/2 v.f.g. dol-Carb vns, largest lenses are parallel TCA and dominantly fragmented + displaced, brc constituent clsts are of similar material over this interval. | | | | |
| | | | | proximal to 336 min - 679 CPS, proximal to 344 max - 1035 CPS, avg - 900 CPS | | | | |
| | | | | <u>ilm py mag dol-Carb</u> | | | | |
| | | | | colour: 5Y 4/1, N2. | | | | |
| | | | | minerology: 65-70% v.f.g. to f.g. anh dol, 15-20% v.v.f.g. to f.g. anh mag, 5-10% v.f.g. to rare m.g. anh to euh py, 5-7% v.v.f.g. to f.g. ilm, trace bsn, po. | | | | |
| | | | | 355.19 m - 360.43 m - mtx-sup brc increasing abundance of frags and mag with ↑ depth. mtx is med dk gy (N4) v.f.g. dol with sub-rnd to ang lt gy dol-Carb clsts. x-cut dol-Carb vn wkly distorted but relativley unbrc, brc ↑ with depth. | | | | |
| | | | | 360.43 m to 369.80 m - dominantly a clst-sup brc, locly mtx-sup. clsts are ang to sub-rnd, f.g. to c.g. consisting of ol-gy (5Y 4/1) to med dk gy (N4) v.f.g. to f.g. dol-Carb and lt ol-gy (5Y 5/2) to pale y-br (10YR 6/2) dol-Carb vn fragments. mtx is blk (N1) to dk-gy (N3) v.v.f.g. to v.f.g. ilm, dol, and mag. abnt frags over interval typically mtx infilled with proximal po and py. x-cut dol-Carb vns often displaced and fragmented v. rare qtz vns. | | | 357.00 | 848 |
| | | | | | | | 360.00 | 863 |
| | | | | | | | 363.00 | 822 |
| | | | | min - 554, proximal to 368.00 m max - 1008, avg - 840. | | | 366.00 | 861 |
| | | | | | | | 369.00 | 701 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|-----------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 369.80 | 386.63 | dol-Carb | - | <p><u>py dol-Carb</u></p> <p>colour: ol-gy (5Y 4/1), med gy (N5).</p> <p>minerology: 92-95% v.f.g. to f.g. anh dol, ~5% v.f.g. to f.g. anh to suh py, trace-1% v.v.f.g. to v.f.g. mag, trace-1% v.f.g. to f.g. po, trace fl, bsn, qtz.</p> <p>369.80 m to 383.63 m - mtx-sup brc, mtx consists of ol-gy (5Y 4/1) to med gy (N5) v.f.g. dol, clsts rnded, clsts dominantly two types: br-blk (5YR 2/1) to blk (N1) "mafic clsts" ranging from f.g. to m.g., dominantly ang and lt ol-gy (5Y 6/1) to y-gy (5Y 8/1) f.g. to c.g. ang-sub-rnded dol-Carb many of which many be brced late stage dol-Carb vns. healed fracs common unbrc dol-Carb vns tend to be <1 cm wide. mag exists as more isolated irregular blebs and in x-cut mag sul vns.</p> <p>369.80 m to 370.37 m - transition between matrix + clst-sup brc.</p> <p>371.45 to 371.59 m - x-cut mag sul dol-Carb brc flow.</p> <p>371.45 m to 376.59 m - x-cut mag sul-dol brc flow → 22° TCA.</p> <p>373.76 m to 373.82 m - wispy fl patch.</p> <p>373.82 m to 374.58 m - v.f.g. frac-rel mod r-br 10R 4/6 min, wk effervescence with HCL, bsn?</p> <p>375.14 to 375.65 m - x-cut v.f.g. lt-ol-gy dol-Carb vn undulating along CA, blebby v.f.g. fl patch @375.67 m.</p> <p>~376.00 m - pinched x-cut lt ol-gy dol-Carb vn.</p> <p>376.18 m - x-cut fl-bsn? py vnlet, mod r-br (10R 4/6) v.f.g. min.</p> <p>376.18 m to 377 - v.f.g. mod r-br min appears to be replacing v.f.g. to f.g. anh fl. bsn 1-2%.</p> | | | | |
| | | | | | | 369.90 m to 383.63 m - brc. | | |
| | | | | | | | 372.00 | 821 |
| | | | | | | | 375.00 | 810 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|----------------------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 383.63 | 395.24 | dol-Carb (F-Carb) | - | 378.35 m to 378.47 m - wk bnds of po py dol ~48° TCA. | | | 378.00 | 831 |
| | | | | 378.92 m to 379.02 m - x-cut qtz vn 27° TCA, ~2 cm wide. | | | | |
| | | | | 379.09 m to 379.21 m - aggregated patches of v.v.f.g. dk gy sul dol and trace qtz. | | | | |
| | | | | 379.30 m to 379.90 m - series of x-cut sul mag dol vns + one qtz vnlet 45 - 50° TCA. | | | | |
| | | | | 379.90 m to 381.45 m - wkly perv v.f.g. mod r-br 10R 4/6 bsn? | | | 381.00 | 867 |
| | | | | 382.60 m - irregular v.v.f.g. sul dol vn. | | | | |
| | | | | 383.23 to 383.63 m - magnetic bnds of f.g. to m.g. ang mag clsts + po + py and itsl dol. | ctc @ 383.63 m - grad, text change. | | | |
| | | | | min - 707, proximal to 381.50 m max - 1013, avg - 860. | | | | |
| | | | | <u>mag py dol-Carb</u> | | | | |
| | | | | colour: ol-gy → 5Y 4/1, N5. | | | | |
| | | | | minerology: 85-90% v.f.g. anh dol, 5-10% v.f.g. to f.g. anh to euh py, ~5% v.v.f.g. to v.f.g. mag, trace fl, qtz, bsn, po, ilm, sph. | | | | |
| | | | | 383.63 m to 391.04 m - v.f.g. ol-gy to gy (5Y 4/1, N5) dol with v.f.g. to f.g. anh to euh wkly perv py dism throughout ± v.f.g. to f.g. anh po, v.f.g. fl occurs irregular blebs or wispy patches, mag occurs as mass v.v.f.g. x-cut vns or irregular wispy patches typically dk-gy in colour (N3) and often accompanied by py + po + ilm, v.f.g. brk r (10R 4/6) bsn occurs proximal to gy v.f.g. dol-Carb vns typically ~1 cm wide. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|--|-----------|-----------|---------------------|--|---------------------------|---------|---------------|-----------------------------------|------|
| | | | | | | | DEPTH (m) | CPS | |
| 395.24 | 408.94 | dol-Carb | - | 383.77 m to 383.87 m - fl patch with v.f.g. brick r bsn. | 387.11 m to 387.36 m - | | | 384.00 | 923 |
| | | | | 385.95 m to 386.15 m - concentrated fl patch with v.f.g. dk r-br (10R 3/4) bsn? | | | | | |
| | | | | 386.17 m to 386.56 m - mass v.f.g. mag vn undulating along CA, ~3 cm wide. | | | | | |
| | | | | 387.11 m to 387.36 m - mtx-sup brc flow? sharp ctc's, ang to sub-rnded clsts of mag, dol and py, trace qtz + v.f.g. pk r (5R 4/6) frac min, bsn? brc flow up ctc ~30° TCA, undulating lower ctc irregular. | | | | 387.00 | 1105 |
| | | | | 387.94 m to 390.00 m - wispy fl patches with v.f.g. dk r-br (10R 3/4) bsn? | | | | | |
| | | | | 390.01 m to 390.02 m - brc dol-Carb bnd. | | | | 390.00 | 935 |
| | | | | 390.83 m to 391.75 m - mtx-sup brc, v.f.g. ol-gy (5Y 4/1, N6) dol-Carb mtx with f.g. to c.g. ang to sub-rnded clsts, possibly ctc flow, sharp ctc's. ctc flow, up ctc sharp irregular, lower ctc 55° TCA. | | | | 390.83 m to 391.75 m - brc. | |
| 391.75 m to 394.10 m - swirly distorted lt ol-gy to y dol-Carb, decreasing frquency of mag fl patches. mottled distorted bnds. | 393.00 | 847 | | | | | | | |
| | | | | min - 727, proximal to 387.00 m max - 1220, avg - 900 | | | | | |
| | | | | <u>dol-Carb</u> | | | | | |
| | | | | colour: ol-gy (N5, 5Y 6/1). | | | | | |
| | | | | minerology: (blank)% v.f.g. anh dol, 1-4% v.f.g. to f.g. anh to euh py, trace-2% v.v.f.g. - v.f.g. anh, mag, trace po, qtz, sph, bsn. | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|------------------------------------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 395.24 m to 408.94 m - v.f.g. + dk to ol-gy dol with f.g. to sparse c.g. ang to sub-rnd clsts. clsts typically lt gy to y-gy (N8, 5Y 8/1) dol-Carb or dk gy to blk "mafic" clsts, some siliceous other dolomitic, common v.v.f.g. blk (N1) sutures. mag occurs as x-cut v.v.f.g. vns ± py + po and as irregular blebs, py diss throughout appears to be associated with sutures. sparse x-cut late stage lt br-gy dol-Carb vns typically <1 cm wide. | | | | |
| | | | | 395.24 m to 408.94 m - massive, locky mtx-sup brc, etc. | | | | |
| | | | | 396.22 m to 396.36 m - bnd of f.g. to m.g. anh dk gy mag with itsl dol + po + py and a ~1 cm pinched lense qtz vn. | 396.34 m - qtz vn 53° TCA. | | 396.00 | 780 |
| | | | | 397.81 m to 397.86 m - ~2 cm x 3 cm entrained y-gy f.g. anh dol-Carb clst. | | | | |
| | | | | 397.93 m to 398.14 m - perv pale r-br min, v.f.g., efferveceses with HCL, H=4.5-5.0. | | | | |
| | | | | 398.29 m - ~2 mm x-cut phl amp qtz vn, amp is dusky b-gr f.g. suh elongate acicular blades, defines wk lineation parallel to ____. | 398.29 m - phl amp-qtz vn 70° TCA. | | | |
| | | | | 401.00 m to 401.75 m - aggregated v.v.f.g. mag patches + networking mag vn. | | | 399.00 | 890 |
| | | | | 401.75 m to 401.92 m - x-cut mass f.g. anh dol flow sharp ctc's, ol-br colouration. dol-Carb flow up ctc @22° TCA lower ctc @27° TCA both slightly irregular. | | | 402.00 | 990 |
| | | | | 402.78 m to 403.24 m - lt ol-gy to tan dol-Carb vn undulating along CA. | | | 405.00 | 1050 |
| | | | | 403.24 m to 403.60 m - v.f.g. lt br (5YR 4/4/) perv min, effervesces with HCL, H= 4.0 - 5.0, Fe-Carb? | | | 408.00 | 822 |
| | | | | @404.97 m - v.f.g. r-br (10R 3/4) min on frac surface bsn? | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 408.94 | 417.79 | dol-Carb | - | 405.39 m to 406.22 m - lense of mtx-sup brc with f.g. to c.g. ang to sub-rnd dol clsts undulating along CA, clsts range from ol-gy to w in colour, irregular wavy margins with host. | | | | |
| | | | | 406.22 m to 408.94 m → increasing proportion of clsts in mtx, mafic fragments and irregular patches of po, py, mag. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: ol-gy (5Y 4/1, N5). | | | | |
| | | | | minerology: 97-98% v.f.g. anh do, trace to 2% v.v.f.g. to f.g. mag, trace to 2% v.f.g. to f.g. anh to sul py, trace to 1% v.f.g. qtz, trace sph, po. | | | | |
| | | | | 408.94 m to 417.79 m - dominantly a mtx-sup brc, mtx is v.f.g. lt ol-gy (5Y 5/2) dol with ang to sub-rnd, f.g. to c.g. lt gy to y-w (N8, 5Y 8/1) dol-Carb clsts and f.g. to m.g. gy (N5) ang to rnd typically siliceous clsts. sparse x-cut dol-Carb vns, common healed fracs with v.v.f.g. dk gy material → like sul, often accompanied by visible po, py ± mag. mag typically occurs as v.f.g. irregular masses occasional f.g. anh grains. | | | | |
| | | | | 408.94 m to 417.79 m - mtx-sup brc, locly mass or mottled. | | | | |
| | | | | 408.94 to 410.60 m - locl *mag dol-Carb*, up to ~3% v.f.g. qtz. | | | | |
| | | | | 413.85 m to 413.97 m - cm ang qtz clsts? possibly lense vn, largest "clst" roughly 2 cm by 2 cm. | | | 411.00 | 566 |
| | | | | | | | 414.00 | 51 |
| 416.15 m to 422.55 m - increasing frequency of x-cut sul mag vnlets rare x-cut qtz vnlets. 416.15 m to 417.78 m - x-cut mag vnlets commonly 40-50° TCA. | | | | | | | | |
| 416.90 m to 417.60 m - pods + lenses of y-w f.g. anh dol. | | | 417.00 | 555 | | | | |
| end of box min - 454, prox to 417.50 m max - 752, avg - 575. | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|--|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 417.79 | 422.55 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>minerology: ~98% v.f.g. anh dol, trace to 1% v.v.f.g. to v.f.g. mag, trace to 1% v.f.g. to f.g. anh to suh py, trace qtz, po, sph.</p> <p>417.79 m to 422.55 m - mass v.f.g. ol-gy (5Y 4/1, N5) dol-Carb with v.f.g. to f.g. py and po diss throughout, locly mottled or mtx-sup brc. mottled mass, loclized mtx-sup brc. 417.79 m to 419.50 m - x-cut mag sul vns commonly 40°-50° TCA.</p> <p>421.00 to 422.55 m - increasing hetero.</p> <p>min - 563, proximal to 422.00 m max - 813, avg - 640.</p> | ctc @417.79 m - grad txt change. | | 420.00 | 617 |
| 422.55 | 431.70 | dol-Carb | - | <p><u>qtz-rich mag dol-Carb</u></p> <p>colour: ol to dk gy (5Y 4/1, N3).</p> <p>minerology: 87-90% v.f.g. anh dol, 1-5% v.v.f.g. to v.f.g. anh mag, trace-7% v.f.g. anh qtz, trace-1% v.f.g. to f.g. anh to euh py, trace po, sph, galena.</p> <p>422.55 m to 431.70 m - very hetero, dominantly v.f.g. ol-gy to lt ol-gy (5Y 4/1 to 5Y 5/2) dol, abnt x-cut v.f.g. lt ol dol-Carb vns often with v.f.g. mag min near margins. common x-cut qtz vns highest concentrations generally correspond with ltr colouration in mag dol-Carb development of locl brc often with y-w ang to sub-rnd, f.g. to m.g. dol-Carb clsts. mag dominantly occurs as dk gy stringers throughout interval, often occuring with py + po. irregular ang qtz blebs sparsely distributed throughout.</p> <p>422.55 m to 423.23 m - x-cut lt ol dol-Carb vn undulating along CA, mag min at margins.</p> | 420.95 m - x cut v.f.g. dol-Carb vn 25° TCA. ctc @422.55 m grad text change increasing dol-Carb vn abundance. | 422.55 m to 431.70 m hetero → brc, mass, mottled. | 423.00 | 642 |
| | | | | | | | 426.00 | 729 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|---|-----------|-----------|---------------------|--|-----------|---------|---------------|--------|-----|
| | | | | | | | DEPTH (m) | CPS | |
| 431.70 | 451.67 | dol-Carb | - | 423.31 m to 423.45 m - bnd of pbic f.g. anh to euh dol-Carb. | | | | 429.00 | 740 |
| | | | | 423.50 m to 423.67 m - irregular qtz vn work and sph min sul include po, py, sph. | | | | | |
| | | | | 423.94 m - healed fracs truncating dol-Carb pod + displacing aggregated sul dol patch 32° TCA. | | | | | |
| | | | | 424.50 m - (10R 6/6) mineralization inside qtz pocket possibly sph. | | | | | |
| | | | | 426.57 m to 428.50 m - abnt x-cut qtz vns and sul mag stringers, no preferred orientation. | | | | | |
| | | | | <u>dol-Carb</u> | | | | | |
| | | | | colour: lt ol-gy (5Y 5/2, 5Y 6/1). | | | | | |
| | | | | minerology: 93-98% v.f.g. anh dol, trace-2% v.f.g. to f.g. anh to euh py, trace-2% v.v.f.g. to rare m.g. anh to suh mag, trace-2% v.f.g to f.g. po, trace sph, ilm, bsn. | | | | | |
| | | | | 431.70 m to 451.67 m - v.f.g. lt to dk ol-gy (5Y 5/2 to 5Y 4/1) dol, dominantly mass with locl brc abnt faint bndg common to abnt healed fracs typically infilled by v.v.f.g blk to gy (N1 to N5) dol + sul; common late stage x-cut dol-Carb clsts tend to be y-w in colour while siliceous clsts are lt to dk gy and often proximal to sul + mag min. mass to mottled locly-brc + psd brc. | | | | 432.00 | 625 |
| | | | | 433.00 m - ~2 mm spherical siliceous clst, lt bg colouration. | | | | 435.00 | 647 |
| | 438.00 | 620 | | | | | | | |
| | 441.00 | 577 | | | | | | | |
| 433.86 m to 434.05 m - bnds of f.g. to rare c.g. anh to suh mag, ~35% locly. | 444.00 | 545 | | | | | | | |
| | 447.00 | 499 | | | | | | | |
| 435.89 m to 437.62 m - f.g. to c.g. anh qtz fragments + sul mag stringers over interval, f.g. anh mag bnd 436.55 to 436.60 m. | 450.00 | 576 | | | | | | | |
| 437.35 m to 437.74 m - suture wkly undulating along CA appears to have displaced dol-Carb, is not symetical across suture. | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 451.17 | 458.09 | dol-Carb | - | <p>439.27 m to 439.90 m - v.f.g. ol-gy dol-Carb vn undulating along CA, trace mag.</p> <p>441.50 m to 442.12 m - qtz vn lenses throughout, largest window ~2 cm x 4 cm, minor sul mineralization, v.v.f.g. gy stingers throughout, psd dol-Carb vns along silica fluid pathways → altn.</p> <p>442.30 m to 442.37 m - v.f.g. dol-Carb vn, ol-gy wkly bnded, trace mag.</p> <p>443.13 m to 443.17 m - v.f.g. lt ol-gy dol-Carb vn.</p> <p>443.25 m to 443.50 m - siliceous clsts? throughout dol-Carb, largest 1 cm x 3 cm sub-rnd also v.f.g. pale r (5R 4/6) min bsn?</p> <p>444.16 m to 444.71 m - lenses + bnds of f.g. siliceous dol-Carb, f.g. anh to v. rare euh dol grains in v.f.g. qtz dol mtx → possibly lenses of "porphyry dol-Carb".</p> <p>446.04 m - increasingly mottled appearance of core.</p> <p>446.04 m to 451.67 m - text "flow" → plastic.</p> <p>min- 476, max - 716, avg - 660.</p> <p><u>dol-Carb</u></p> <p>colour: ol-gy (5Y 5/2, 5Y 6/1)</p> <p>minerology: 94-97% v.f.g. to f.g. anh dol, 2-3% v.f.g. to f.g. anh to euh py, ~1% v.f.g. anh qtz, trace-1% v.f.g. to f.g. anh to suh po, trace-1% v.v.f.g. to v.f.g. mag, trace sph, bsn, fl.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--------------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>451.67 m to 452.47 m - "porphyry" → f.g. to m.g. anh to euh lt gy to w (N8 - N9) dol grains (pheno?), anh f.g. to m.g. translucent lt to dk gy qtz grains (N8 - N4), v.f.g. to f.g. anh to euh py, and v.f.g. brk-r bsn? in v.v.f.g. to v.f.g. lt ol qtz dol "gdmass", also v.f.g. anh dk p (5RP 2/2) fl, sharp irregular ctc @452.47 m lensed with main unit.</p> <p>451.67 m to 458.09 m - mottled to mass, wkly bnded.</p> <p>452.47 m to 458.09 m - mottled v.f.g. lt ol to ol-gy dol with locly perv and frac-rel sul ± mag diss throughout. prevalence of bndg increases approaching lower ctc. dk bnds + irregular blebs of v.v.f.g. to v.f.g. mag distributed throughout, up to ~12 cm with py + po. sparse x-cut v.f.g. lt tan (10YR 6/2) dol-Carb vns. sparse patchy translucent qtz lenses associated with healed tracs.</p> <p>452.69 m to 452.71 m - x-cut dol-Carb vn, 37° TCA.</p> <p>452.93 m to 452.96 m - qtz lenses with v.v.f.g. gy-blk material @margin sul? + v.f.g. brk red (10R 4/6) bsn?</p> <p>min - 493, proximal to 457.50 m max - 722, avg - 580.</p> | <p>452.17 m - shear bndg 40° TCA</p> | | | |
| | | | | | | | 453.00 | 525 |
| | | | | | | 456.70 m to 457.20 m - shear bndg 27° TCA. ctc @458.09 m - grad ↑ bsn, shear bndg. | 456.00 | 556 |
| 458.09 | 477.65 | dol-Carb | - | <p><u>shear bnded fl bsn dol-Carb</u></p> <p>colour: lt ol-gy (5Y 6/1, 5Y 5/2).</p> <p>minerology: 89-94% v.f.g. to f.g. anh dol, 5-7% v.f.g. brk r (10R 4/6) bsn (prs?), 1-2% v.f.g. anh fl, trace-2% v.f.g. to f.g. anh to euh py, trace po, mag, qtz, REflc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 477.65 | 484.43 | dol-Carb | - | 458.09 m to 477.65 m - v.f.g. to f.g. lt ol-gy dol, dk gy bnds tend to be associated with v.f.g. to f.g. anh to euh py mineralization ± po ± mag. wispy fl bnds throughout, locally up to ~15% fl. v.f.g. brk r (10R 4/6) perv bsn (prs?) throughout, possibly replacing fl. sparse healed fracs occasionally infilled by v.f.g. gr-blk chl, often proximal to py. rare x-cut v.f.g. dol-Carb vns, these are typically small, up to ~5 mm. v. rare x-cut qtz vns. trace v.f.g. y-gy (5Y 8/1) REflc? associated with fl + bsn mineralization. shear bndg consistently 35 to 45°. | 468.03 to 463.42 x-cut dol-Carb vns ~22° TCA. | | 459.00 | 690 |
| | | | | 466.50 m to 467.14 m - v.f.g. y-gy REflc, ~1%. | | | 462.00 | 707 |
| | | | | 467.60 m to 467.70 m - x-cut dol-Carb vn, 17° TCA, truncated by vuggy frac with py. | | | 465.00 | 670 |
| | | | | 468.03 to 468.42 m - x-cut v.f.g. ol-gy dol-Carb vns, trace mag + sul. | | | 468.00 | 670 |
| | | | | 470.29 m to 470.48 m - ~1 cm wide qtz vn undulating along CA, associated sul. | | | | |
| | | | | 471.35 m to 471.37 m - fl "chunk". | | | 471.00 | 650 |
| | | | | 472.23 m to 477.65 m - decreasing frequency of wispy fl, fl ↓ with depth, bsn also decreases with depth. | | | | |
| | | | | 473.29 m to 473.35 m - patch of v.f.g. chl? + sul, soft, H: 2.5 - 3.0, no effervescence with HCL. | | | 474.00 | 633 |
| | | | | 475.75 m to 476.66 m - fracs infilled by soft v.f.g. gr-blk min + py, rare qtz pockets. | | | 477.00 | 577 |
| | | | | 477.15 m to 477.55 m - patchy + wispy fl with br (5YR 3/4) v.f.g. bsn. | | | | |
| min- 490, prox to 462.30 m - max 742, avg - 640. | | | | | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: ol-gy (5Y 5/2, 5Y 4/1). | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 484.43 | 502.67 | dol-Carb | - | <p>minerology: 96 - 98% v.f.g. to f.g. anh dol, 1 - 2% v.f.g anh qtz, trace - 2% v.f.g. to f.g. anh to suh py, trace mag, po, bsn, fl.</p> <p>477.65 m to 484.43 m - v.f.g. ol-gy (5Y 5/2), (5Y 4/1) with dism v.f.g. to f.g. anh to euh py throughout. py also occurs as rare patches up to ~10% locly. frequency of healed fracs infilled by v.v.f.g. blk material increases with depth, sul typically proximal. siliceous bnds over interval, lensing qtz vns + siliceous alt of dol-Carb, v. mottled + patchy appearance + lt colour. siliceous zones also tend to contain aggregates of lt gy to w f.g. anh dol grains. v. rare x-cut dol-Carb vns; brc ↑ with depth (hetero, dominantly mottled + mass, locl brc + subtle bndg). hetero dominantly mottled + mass, locl brc + subtle bndg.</p> <p>479.04 m to 479.27 m - x-cut v.f.g. ol dol-Carb vn, mag mineralization along margin. x-cut dol-Carb vn 10° TCA.</p> <p>479.37 m to 480.07 m - siliceous dol-Carb, sharp ctc's, qtz lenses throughout. up ctc, 60° TCA, lower ctc 50° TCA wkly undulating.</p> <p>480.36 to 491.05 m - v.f.g. pale r-br (10R 5/4) min, wkly perv. ctc @ 484.43 m - grad, text change, colour darkens.</p> <p>min - 475, max - 661, avg - 560.</p> <p><u>dol-Carb</u></p> <p>colour: dk ol (5Y 4/1, 10YR 4/2).</p> <p>minerology: ~98% v.f.g. to f.g. anh dol, trace - 1% v.f.g. anh qtz, trace - 1% v.f.g. to f.g. anh to euh py, trace po, bsn.</p> <p>480.84 m to 484.43 m - v.f.g. brk r (?? (illegible) 4/6) bsn, frac r + locly perv.</p> <p>484.43 m to 488.75 m - clst-sup brc, f.g. to c.g. ang to suh ang clsts of v.f.g. dk ol dol-Carb, abnt healed fracs throughout, infilled by v.v.f.g. blk (N1) material + associated sul, dominantly py, lenses of .f.g anh N8 dol-Carb and rare qtz pockets or lenses or clsts.</p> | | | | |
| | | | | 480.00 | 480 | | | |
| | | | | 483.00 | 575 | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 487.45 m to 487.47 m - 2 cm x 4 cm qtz pocket with v.f.g. brk r (10R 4/6) min of bsn? | | | 486.00 | 574 |
| | | | | 488.75 m to 502.67 m - mass to mottled dark ol to ol (5Y 4/1, 5Y 5/2) v.f.g. dol-Carb-with locl brc + psd-brcs. sparse mm x-cut qtz vnlets. common irregular bnds, pods, and lenses of "porphyry" dol-Carb, few sharp dykes. "porphyry" typically consists of f.g. to m.g. anh to sparse euh lt gy to w dol grains (pheno?), anh, f.g. to m.g. qtz grains, v.f.g. anh to euh py, and v.f.g. brc (10R 4/6) bsn in qtz dol "gdmass". | | 488.75 m to 502.67 m - mass, loclly, brc. | 489.00 | 525 |
| | | | | 480.36 m to 491.05 m - lt ol v.f.g. dol-Carb irregular ctc's. | | | | |
| | | | | 491.62 m to 491.81 m - "porphyry" dyke, sharp ctc's. | 491.62 m to 491.81 m - "porphyry" dyke up ctc, sharp 47° TCA, lw ctc sharp 75° TCA, undulating. | | 492.00 | 445 |
| | | | | 492.99 m to 493.23 m - "porphyry" dyke, sharp ctc's. "porphyry" dyke up ctc, sharp 77° TCA, slightly irregular, lower ctc sharp 72° TCA, wkly undulating. | | | | |
| | | | | 494.08 m to 494.34 m - ~5% v.f.g. anh to suh py. | | | | |
| | | | | 494.64 m to 495.65 m - mtx-sup brc, f.g. to v.c.g. ang to sub-rnd clsts of lt ol v.f.g. dol-Carb-with itsl "porphyry" in v.f.g. qtz ol dol mtx. | | | 495.00 | 506 |
| | | | | 497.64 m to 498.25 m - "porphy" dyke, x-cut dol-Carb vns @498.13 m to 498.15 m with mag mineralization @ margin → qtz care alt around qtz vn. "porphyry" sharp irregular ctc's x-cut dol-Carb qtz vn, 50° TCA. | | | 498.00 | 600 |
| | | | | 499.00 m to 501.37 m - bnds + lenses of porphyry. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|--------|-----|
| | | | | | | | DEPTH (m) | CPS | |
| 502.67 | 513.39 | dol-Carb | - | <p>500.89 m to 501.37 m - lenses of gy translucent qtz.</p> <p>501.50 m to 501.61 m - x-cut ~3 mm qtz vn undulating along CA, cuts through pod of lt gy to y-w f.g. anh to euh dol-Carb.</p> <p>ctc @502.67 grad decreasing frequency of "porphy" dykes + leases.</p> <p>min - 445, proximal to 492.80 max - 786, avg - 610.</p> <p><u>dol-Carb</u></p> <p>colour: lt ol-gy (5Y 5/2, N5).</p> <p>mineralogy: ~98% v.f.g. to f.g. dol, trace -1 % v.f.g. to f.g. anh to euh py, trace - 1% v.f.g. qtz, trace, po, bsn, fl.</p> <p>502.67 m to 513.39 m - v.f.g. lt ol-gy dol-Carb with sparse to common healed fracs typically infilled by v.v.f.g. dk gy to blk material, often associated with py. sparse late stage x-cut dol-Carb vns typically milky-br in colour (10YR 6/2). rare x-cut qtz vns or "chunks". fl distributed over interval and often with v.f.g. brk r (10R 4/6) bsn. dominantly mottled, locly mass brc, psd brc (ctc?).</p> <p>502.67 m to 513.39 m - v.f.g. pale r-br brk-r (10R 5/4, 10R 4/6) min→ bsn→ frac-rel occuring with qtz locly perv or diss.</p> <p>503.00 m - qtz vn with salmon pk colouration.</p> <p>503.00 to 504.26 m - qtz-rich dol-Carb, large qtz pod from 504.05 m to 504.12 m + v.v.f.g. dk gy to blk material and py 503.50 m to 504.08 m - v.f.g. dol-Carb vn undulating along CA.</p> <p>504.84 m to 505.07 m - overprinted porphyry?</p> | | | 501.00 | 480 | |
| | | | | | | | | 504.00 | 590 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 513.39 | 525.58 | dol-Carb | - | 505.43 m to 505.48 m - aggregate of m.g. to c.g. ang qtz clsts. | | | 507.00 | 660 |
| | | | | 505.50 m - transition into distinctly mottled appearance → psd brc? | | | | |
| | | | | 508.85 m - undulating x-cut qtz vn with v.f.g. brk r min → healed? | | | | |
| | | | | 509.66 m - 509.83 m - mtx-sup brc, f.g. to c.g. ang to sub-rnded qtz, dol-Carb sul clsts in v.f.g. ol dol-Carb mtx. | | | | |
| | | | | 510.33 m to 510.76 m - milky-br (10YR 6/2) dol-Carb vn x-cut + jogging down CA, no preferred orientation. | | | 510.00 | 803 |
| | | | | 511.00 m to 511.33 m - x-cut v.f.g. ol-bg dol-Carb dyke irregular ctc's, lenses through core. | | | | |
| | | | | 512.35 m to 512.60 m - qtz gashes + vnlets with v.f.g. brk-r min → bsn. | | | | |
| | | | | 512.64 m to 512.77 m - x-cut v.f.g. ol-bg dol-Carb dyke, 37° TCA wkly undulating. | ctc @ 513.39 m - grad, colour, text change. | | 513.00 | 690 |
| | | | | min - 570, proximal to 508.75 m max - 912, avg - 720. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour: dk to lt ol-gy (5Y 4/1, 5Y 6/1). | | | | |
| | | | | mineralogy: ~97% v.f.g. to f.g. anh to suh dol, 1 - 2% v.f.g. anh qtz, trace -1% v.f.g. to f.g. anh to euh py, trace fl, bsn. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 513.39 m to 525.58 m - variation between lt ol-gy and dk ol-gy v.f.g. dol-Carb. common healed fracs infilled by v.v.f.g. dk gy to gy-gr material (N3 - 10GY 5/2) often occuring with v.f.g. py. locl mtx and clsts are typically y-w to lt gy, f.g. to c.g., ang to sub-rnd, f.g. anh to suh dol-Carb. lt colouration tends to be associated with higher qtz content. sparse x-cut late stage dol-Carb vns. | | 513.39 m to 525.58 m - mass with brc + psd brc. | | |
| | | | | 513.39 m to 514.73 m - v.f.g. honey-br (5YR 5/6) perv min. | | | | |
| | | | | 513.39 m to 514.73 m - lt colouration, qtz vnlets common. | | | | |
| | | | | 516.18 m to 517.39 m - f.g. anh to suh dol-Carb dyke, lt bg colouration, sharp ctc's dominantly mass, with brc sections + x-cut ol-gr (5Y 4/1) dol-Carb vn. 516.18 m to 516.39 m - dol-Carb dyke, up ctc 44° TCA, lower ctc 55° TCA, with qtz vn. | | | 516.00 | 633 |
| | | | | 517.97 m to 520.30 m - v.f.g. honey-br min, wkly perv. | | | | |
| | | | | 519.66 m to 525.58 m - v.f.g. brk-r (10R 4/6) bsn? frac-rel, loclly perv. | | | 519.00 | 520 |
| | | | | 521.18 m - small ~2 mm sul vnlets → py, po, galena, sph. | | | | |
| | | | | 522.40 m to 523.22 m - overprinted "porphyry", no clear margins. | | | 522.00 | 560 |
| | | | | 524.52 m to 524.70 m - x-cut qtz vn + proximal v.f.g. brk-r min. | | | | |
| | | | | 525.14 m to 525.58 m - txt transition → mottles, ↑ bsn + fl. | | | 525.00 | 725 |
| | | | | | ctc @ 525.58 m grad ↑ fl + bsn, txt change. | | | |
| | | | | min - 425, max - 740, avg - 600. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|--|---|---|
| | | | | | | | DEPTH (m) | CPS |
| 525.58 | 539.61 | dol-Carb | - | <p><u>bsn fl dol-Carb</u></p> <p>colour: dk gy (N4, 5P 2/2).</p> <p>minerology: 60-85% v.f.g. to f.g. anh to rare suh dol, 10-25% v.f.g to f.g. anh fl, 5-15% v.f.g to f.g. bsn, trace py, ap.</p> <p>525.58 m to 539.61 m - v.f.g. to f.g. gy dol with perv v.f.g. to f.g. fl + bsn mineralization. mineralization has a wispy character + "flows" around dol grains + clusters of dol grains generating a psd-brc or ctsc text, common alignment of mineralization in fine bnds → shear bndg? a v.f.g. cr-w (5Y 8/1) sparsely occurs with fl + bsn → REflc? sparse x-cut late stage v.f.g. dol-Carb vns ap is br-pk (5YR 7/2), b-w UV fluorescence, tends to occur as patch clusters. * perv v.f.g to f.g. purple (5P 2/2) fl + brk-r (10R 4/6) bsn.*</p> <p>527.00 m - lt purple v.f.g. dol-Carb vn, parallel TCA → fl mineralization.</p> <p>gradual decrease in fl + bsn with ↑ depth.</p> <p>~529.00 m to 534.00 m - subtle bndg has no uniform orientation and is generally distorted, locally however v. shallow angles TCA.</p> <p>min - 670, prox to 529.50 m max - 1015, avg - 780.</p> | <p>526.20 m - bndg 42° TCA.</p> <p>527.13 m - bndg 38° TCA.</p> <p>528.50 m - bndg 26° TCA.</p> <p>534.40 m - bndg 43° TCA.</p> | <p>525.58 m to 539.61 m - psd brc (ctc).</p> | <p>528.00</p> <p>531.00</p> <p>534.00</p> <p>537.00</p> | <p>765</p> <p>700</p> <p>720</p> <p>805</p> |
| 539.61 | 548.85 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>colour: dk + lt ol-gy (5Y 4/1, 5Y 6/1).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|--------------------------|--------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 548.95 | 553.86 | dol-Carb | - | <p>mineralogy: 95 - 98% v.f.g. to f.g. anh to suh dol, 1 - 4% v.v.f.g. to f.g. anh ap, trace - 1% v.f.g. to f.g. anh to euh py, trace qtz, bsn, fl.</p> <p>539.61 m to 548.85 m - dominantly v.f.g. dk ol-gy with irregular pods + lenses of f.g. anh to euh lt ol to y-gy (5Y 8/1) dol-Carb. rare v.f.g. x-cut dol-Carb vns + these are typically small < 1 cm. ap occurs as bg (10YR 6/2) to br-pk (5YR 7/2) patchy clusters throughout core → b-w UV fluorescence. fl is rare occurring as small, few cms wispy patches. v.f.g. brk-r (10R 4/6) bsn occurs as diss patches. healed fracs common typical infill is v.v.f.g. gy-gy to gy (10GY 5/2, N4) material ± v.f.g. to f.g. py. rare x-cut qtz vnlets.</p> <p>~547.00 m to 548.95 m - lightening colour, ↑ qtz? rare qtz pockets or vns with f.g. euh bladed dol xtls @ rim + clear qtz core.</p> <p>min - 520, prox to your ctc max - 1037, avg - 760.</p> <p><u>dol-Carb</u></p> <p>colour: lt ol-gy (5Y 6/1, 5Y 7/2).</p> <p>mineralogy: 97% v.f.g. to f.g. anh to suh dol, trace - 1% v.f.g. anh qtz, trace - 1% v.f.g. to f.g. anh to euh py, trace - 1% v.f.g. anh r (5R 4/6) bsn/prs, trace po, fl, ap.</p> <p>548.95 m to 553.86 m - v.f.g. to f.g. anh to suh dol with common healed fracs infilled by v.v.f.g. gr-nlk to black (5GY 2/1 - N1) material → chl, sul? ± py core mottled by wkly perv v.f.g. r min → bsn prs. text transition at 551.20 m → prevalence of bndg rare x-cut qtz vnlets. v.rare x-cut v.f.g. dol-Carb vns, <1 cm.</p> <p>551.20 m to 551.70 m - perv v.f.g. r (5R 4/6) bsn/prs.</p> | | | 540.00 | 924 |
| | | | | | | 543.00 | 750 | |
| | | | | | | 547.00 | 560 | |
| | | | | | | | | |
| | | | | | | 548.95 m to 551.20 m - mottled mass. | 550.00 | 525 |
| | | | | | 552.00 m → bndg 30° TCA. | 551.20 m to 553.86 m - bnded. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|----------------------|---------------------|--|--|---|----------------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 553.86 | 561.05 | dol-Carb | - | <p>min - 395, prox to 549.00 m max - 620, avg - 500.</p> <p><u>po py dol-Carb</u></p> <p>colour: y-gy to gy (5Y 8/1, N5).</p> <p>minerology: 85-90% v.f.g. to m.g. anh to suh dol, 5-7% v.f.g. to f.g. anh to euh py, trace-1% v.f.g. anh qtz trace mag, sph.</p> <p>553.86 m to 561.05 m - alternating bnds of v.f.g. to f.g. anh dol, v.f.g. to m.g. anh to suh y-gy (5Y 8/1) dol, and v.f.g. to f.g. gy (N4) sul dol. sul often proximal to healed fracs infilled by v.v.f.g. dk gy to blk material, common throughout interval with dk gy alt boundaries. v. rare x-cut v.f.g. dol-Carb vns and v. rare qtz vns. bndg, locly mottled mass.</p> <p>559.92 m to 560.19 m - ellipsoidol dol-Carb vn halo, v.f.g. → ol colouration. 560.04 m to 560.04 m (sic. sp?), x-cut qtz vn overprinting dol-Carb vn.</p> <p>min - 275, prox to 559.00 m max - 430, avg - 380.</p> <p>structure 557.00 m - bndg 25° TCA; possible fold closure @ 557.30 m axis 85° TCA; 558.50 m - bndg 20° TCA; 559.30 m - bndg 23° TCA, slight distortion.</p> | <p>552.50 m → qtz vn, 32° TCA. ctc @ 553.86 m - sharp 25° TCA.</p> <p>555.50 m to bndg 30° TCA.</p> <p>556.20 m → bndg 20° TCA.</p> <p>ctc @ 561.05 m - sharp 40° TCA.</p> | <p>553.00</p> <p>556.00</p> <p>559.00</p> | <p>400</p> <p>360</p> <p>400</p> | |
| 561.05 | 570.63 | dol-Carb (F-Carb) | - | <p><u>po py mag dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 570.63 | 579.61 | dol-Carb | - | <p>colour: dk y-br, dk gy (10YR 4/2, N3).</p> <p>minerology: 50 - 95% v.f.g. to f.g. anh to anh dol, 2 - 35% v.f.g. to f.g. anh mag, trace - 10% v.f.g. to m.g. anh to euh py, trace - 5% v.f.g. to f.g. anh po, trace qtz, ilm, sph.</p> <p>561.05 m to 570.63 m - dominantly v.f.g. to f.g. anh to anh dol with patchy to perv sul mag mineralization. sul mag mineralization also frac-rel occurring as clustered stingers. sparse x-cut v.f.g. ol dol-Carb vns. v. rare x-cut qtz vn with anh to euh w (N9) dol xtls @ rim + qtz core. mag + sul occasionally accompanied by v.f.g. dk y-gr (10GY 4/4) min? possibly staining. thin section taken. most intense mag min occurs from 565.50 m to 567.89 m. mineralization (mag sul) commonly has sharp ctc's with v.f.g. dol-Carb → more like flows than vns.</p> <p>566.75 m to 562.22 m - irregular x-cut v.f.g. ol dol-Carb vn.</p> <p>569.36 m to 569.79 m - bnd of y-gy (5Y 8/1) f.g. to m.g. anh to anh dol-Carb.</p> <p>min - 300, proximal to up ctc max - 500, avg - 450.</p> <p>structure - 564.13 m - mag sul mineralization bountry 35° to undulating; 566.17 m - mag sul boundry 50° TCA; 567.00 m - mag sul boundry irregular; ctc @ 570.63 m, grad, decreasing po, py, mag vns, last anh @ 570.63 m to 46° TCA.</p> <p><u>dol-Carb</u></p> <p>colour: lt ol, y-w (5Y 6/1, 10Y 8/2).</p> <p>minerology: ~98% v.f.g. to sparse m.g. anh to anh dol, trace-1% v.f.g. anh qtz trace py, fl, bsn/prs, galena, sph, phl.</p> <p>570.63 m to 579.61 m - mass to mottled. y-w f.g. to m.g. anh to anh dol-Carb blended with v.f.g. to f.g. lt ol to gy-gr anh dol-Carb. common x-cut qtz vn, rare m.g. anh qtz clsts, patchy pk-r (5R 6/6, 5R 4/6) frac-rel bsn/prs. rare v.f.g. honey-br (5YR 5/6) frac-rel locly perv min.</p> | | | | |
| | | | | | | | | |
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| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|-------------|--------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | EOH | ctc @ 600.46 m = EOH. | | 600.00 | 250 |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536333.25 | Drill Company: Cartwright Drilling Ltd. | Date Started: Mar 26, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312372.64 | Rig Type: CDI 500 | Date Completed: Apr 01, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 9.14 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 563.60 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: A. W. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 9.14 | OVB | | <u>casing</u> | | | | |
| 9.14 | 37.15 | - | | <p><u>cataclastic f.g. to m.g. dol-Carb</u> It gr-gy to med gy-br.</p> <p>interval consist of cataclastic textured f.g. dol-Carb, small mm sized pale cr sub-rnd evolic frags often present occasional packed together. this rock is generally lt coloured, homo overall, but hetero in fine details. the larger frags are surrounded and cemented by v.f.g. dol. virtually no py. 30.85 m to 30.95 m - sph 10%.</p> <p>this rock is cut by irregular, brittle fractures lined by p fl, earlier zones of dk p fl, m.g. impregnation and latest pale to med ol v.f.g. Carb thin dykes.</p> <p>zones of m.g. dk fl 12.2 m to 12.4 m (mod), 18.65 m to 19.3 m (mod-str, infills brc @ base, vuggy), 22.95 m to 24.15 m (mod; patchy), 26.45 m to 26.85 (str, infills voids), 30.15 m to 35.15 (infills wk ctsc brc 15% overall (these zones) vague text @12° TCA.</p> <p>late v.f.g. Carb dykes 12.5 m (2.5 cm, 17° TCA), 20.15 m (2 cm, 31°), 30.85 m (2.5 cm, 21°), 31.7 m (5 cm, 23°, 3 thin vns), 34.25 (6 cm, 27°) other thinner ones.</p> <p>brc with dull r-br, v.f.g. matrix (40%) 9.4 m-11.0 m, 12.9 m-13.2 m. both mass.</p> <p>r-br, pale irregular orientented void infill 15.65 m to 16.45 m 0-20° TCA, 20% of zone. fl filled frac: 20.65 to 21.3 m 20° TCA wavy.</p> | | | | |
| | | | | | | ctsc with late brittle infill and frac. | 9.20-20.0 | 300-360 |
| | | | | | | | 13.50 | 485 |
| | | | | | | | 20.0-30.50 | 220-290 |
| | | | | | | | 28.20 | 430 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|----------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 37.15 | 91.70 | - | | <p>lower ctsc set at lessening of ctsc tents decrease in fl content and overall darkening of colours - gradational.</p> <p><u>wkly ctsc dol-Carb</u></p> <p>lt ol gy to dk gr-gy. interval consist of f.g. swirly textured, f.g. carbonate. granularity due to f.g. ctsc text, often displaying a wk preferred orientation. few large xenocrysts, much less shown above. complex history of plastic flow and hydrothermal vning, multiple events. this "host" rock is interrupted by early zones of anastamizing thin vns and zones of dk p fl infilling, at least 2 generations later generation more brittle than earlier ones but less abnt. @59.35 m - py 15%, 5 cm patch.</p> <p>early zones of abundant dk fl infill: 42.0 to 42.15 m (wk), 43.5 m to 44.85 m (along 20% fl, 41° TCA), 48.85 to 49.75 m (med 45-55° TCA) 50.15 m to 50.85 m (wk 38°) 51.8 to 51.95 m (str), 52.15 to 52.45 m (mod, patchy), 53.8 m to 54.0 (mod, 29°), 56.25 m to 56.55 m (mod, mass) 58.2 m to 59.55 (str somewhat patchy defined and str faulted), 62.0 to 63.65 m (mod, ???) 64.45 m to 64.85 m (mod 40° TCA), 65.85 m to 66.9 (mod, 40°), 67.35 m to 68.55 (mod to v. str base), common ???). relatively dk coloured 42.9 to 45.9 m, 49.0 to 49.5 m. mag some of this. 800 CPS @ base. 67.35 m to 68.55 m - 5% parasite with fl.</p> <p>vague bndg in "host" rock: 24° (38.4 m), 34° (40.1 m), 33° (42.5 m), 40° (45.0 m), 41° (47.8 m), 32° (48.8 m), 28° (55.1 m), 27° (57.7 m), 27° (57.7 m).</p> <p>late v.f.g. ol Carb dykes: 44.0 m (22°, 2 cm), 47.3 m (7 cm, 20°) 54.45 m (2.5 cm, 23°), f.g. lt br qtz vn (1 cm, 10° TCA, c.g. cloudy cr min on walls).</p> <p>sparse, dull med r early infill: 38.15 to 39.5 m (med, patchy), 40.6 to 40.85 (med).</p> <p>f.g. dk fl dol py clst (ang) 41.9 (4.5 cm).</p> <p>r parasite seen in 2 places with p fl most fl without parasite. py and parasite do not occur together.</p> <p>@48.7 m - dull r parasite with fl as fine shreds.</p> | | wk ctsc. | 30.50-37.15 | 300-600 |
| | | | | | | | 37.15-43.15 | 250-280 |
| | | | | | | | 43.15-47.45 | 500-620 |
| | | | | | | | 44.70 | 800 |
| | | | | | | | 47.45 | 400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 91.70 | 123.15 | - | | early zones of abnt dk fl infill (conti) 69.25 m to 69.8 (wk, blebs, no para). other smaller zones. | | | 63.30 | 480 |
| | | | | relatively lt coloured 51.75 to 56.2, 64.5 to 67.1 m. | | | 63.3- 94.0 | 290-350 |
| | | | | f.g. py (3%) dk r-br frac Carb. | | | | |
| | | | | below ± 70.0 m early fl zones absent; fl present as late frac fillings, semi-random, often with f.g. r mins as anh mass (aggregates?). the 'host' rock is med ol-gr with a wkly ctsc mushy deformed texture. v. few to no late dykes. under the lens the Carb is f.g. eqgr with colour mottling (br and r-br), often with 1-2% f.g., diss fl and occasional py. zones with increased fl frags: 76.65-78.2 m, 78.9-80.65 m, 81.0-82.55 m, 83.8-84.85 m. | | | | |
| | | | | below 90.45 patches of y-gy-gr colour appear, transitional to below. | | | | |
| | | | | <u>interbnded ol-gr and lt y-cr dol-Carb with fl zone</u> | | | | |
| | | | | interval consists of interbnded sections med ol-gr mainly bnded f.g. dol-Carb and lt y-gy-gr, more hetero Carb. the ctcs between the ol and y sections are often marked by zones 5-20 cm thick of shrd looking, bnded dol fl. these also occur within y sections. the bndg in these much were dfmd fl-rich sections is parallel with that in the Carb. | | | | |
| | | | | the ol Carb can be locly completely mass and looks much less internally dfmd than the y, which contains patches of mod ctsc text. | | | | |
| | | | | major sections of lt y-gr coloured, 91.7-94.65 m, 96.15-97.1 m, 97.4-98.1 m, 98.75-100.21 m, 101.9-102.8 m, 104.85-106.4 m, 108.85-110.75 m, 119.75-123.15. | | | | |
| | | | | major zones of shr fol dol fl 93.8-94.2 m (wk 38° TCA), 94.8-95.85 (mod to str, 36°), 97.9-98.05 (wk, 47°), 101.25-101.55 (mod 24°), 103.85-104.05 (mod, 30°), 107.15-107.55 (str, 29°), 110.1-110.18 (v. str, 46°) 110.8-111.4 (str, st ctsc, 37°), 113.15-113.3 (str, 29°), 117.1-117.8 (mod, mod ctsc, 28°), 119.4-119.6 (wk 37°), many other thinner zones. | | | 94.0- 133.5 | 370-450 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 123.15 | 135.55 | - | | bndg in "host" rocks 31° (93.5 m), 40° (94.2 m) 29° (101.8 m), 32° (108.4 m), 51° (111.6 m), 37° (118.4 m). | | | 105.75 | 560 |
| | | | | late v.f.g. ol-gr Carb dykes: 95.7 m (28°, x-cut Carb bndg 2 cm), 97.25 m (8 cm, 16°), 114.5 m (5 cm, 15°). | | | 113.30 | 550 |
| | | | | base of interval set at end of prominent y-gr sections and increase in brittle dfmn text. | | | | |
| | | | | <u>str bnded to brcd f.g. dol-Carb</u> | | | | |
| | | | | lt to med ol gy. the Carb is uniformly f.g. and eqgr. accessory mins bright py, fine diss p fl and zone f.g. phl microscopic text are complex. where least dfmd the Carb is bnded, tectonic not primary (lightly shrd). the shearing includes zones (3-15 cm) of early fl separation (to 40%). these texts are then dissrupted by brittle/ductile brcn, mtx poor, plastic seemingly without fluid component (no altn). the brc is cut by fl-lined fracs (minor) and rare, late thin, v.f.g. Carb dykes. | | | 133.5-145 | 550-700 |
| | | | | zones of prominent plastic brcn: 123.15-123.45 m, 125.0-126.0 m, 126.85-131.05 m, 133.2, 133.35-135.55 m. | | | | |
| | | | | zones of fl enrichment 124.0-125.45 (patches of dfmd shr fl.) 126.85-127.1 m (dfmd shear fl and late fl frac), 128.05-128.35 (brc shr fl), 130.05-130.3 (wk-str brc) 132.1-132.65 m (shr fl with str overprint of late frac fl). other smaller zones. | | | | |
| | | | | shr bndg 36° (123.5 m), 31° (131.8 m), 42° (133.3 m), 44.0 (134.5 m). | | | | |
| | | | | w Carb frag 7x3 cm 125.95 m, 3 x 1 cm 128.65 m. | | | | |
| | | | | end of interval set at end of prominent brcn. | | | | |
| 135.55 | 172.20 | - | | <u>variably shrd f.g. dol-Carb</u> | | | | |
| | | | | med to dk ol-gy with lt gr patches ± 65% of interval enhabits mild to med shr bndg. occasionally containing whole xenocryst ctsc text. 35% is mass, un-dfmd. the shr bndg is irregular and not str. fl present has shr bnded areas, infilling of ctsc zones, frac and void filling. common late v.f.g. ol Carb dykes cut all. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | interval differs from that alone in lack of brc texts more irregular nature of shr bndg and overall slightly dkr colour. | | | 135.30 | 750 |
| | | | | | | | 136.00 | 880 |
| | | | | mass zones: 136.2-139.1 m, 140.0-140.4 m, 141.4-141.7 m, 143.65-146.1 m, 147.0-148.35 m, 153.8-154.25 m, 155.5-156.3 m, 163.15-165.75 m. | | | 140.30 | 750 |
| | | | | fl-rich areas: 137.4-137.6 m (mtx of late brc), 140.4-141.4 m (shr parallel 5 mm mass fl vning 25%), 141.85-143.1 m (shr fl zones and broken frac filling.) 144.45-144.6 m (shr vnlets), 146.25-147.0 m (bnded lower angle 3 cm vns. r v.f.g. min), 148.8-148.95 m (shrd zone), 151.1-153.8 m (broken mass fl vns, ctsc mtx, shrd material), 154.3-154.45 (shrd), 154.65-155.35 (shrd), 157.23-157.37 m (diatrema brc mtx), 158.5-158.7 (strongly shrd), 159.5-160.05 m (patches of dfmd shr fl), 160.95-1611.7 m (same), 166.25-166.55 m (shrd fl), other narrower zone, 168.7-169.3 m (patches of dfmd shr fl), 168.65-168.8 m (dfmd wk shr fl with same late, broken frac fl), 170.0-170.55 m (wk shr fl), 170.95-171.15 m (str shr fl). | | | 146.90 | 720 |
| | | | | diatrema brc: 157.23-157.36 85% sub-rnded mm-cm scale clsts of w to med gy Carb in v. dk fl mtx. sharp, irregular ctcs. un-dfmd, 162.1-162.25 (same, S1 dfmd). | | | 154.60 | 540 |
| | | | | shr bndg 32° (141.3 m), 26° (146.3) 31° (148.3), 32° (151.7), 36° (156.5), 35° (162.5), 45° (167.0). | | | 158.00 | 500-650 |
| | | | | significantly dkr coloured 162.0-162.4 m, 163.5-167.5 m. dk gr. this sections are more RA. | | | 158-168 | 600-750 |
| | | | | qtz vns 137.68 (1 cm, 28° TCA), 140.33-140.43 m (4 cm 28°). both are water clear, honey y with equant w min on walls. trace, RI, py, hair-like acicular y min. | | | 162.30 | 1150 |
| | | | | below 166.0 m - mass zones absent, interval shrd and afterwards lightly dfmd. | | | 165.20 | 1195 |
| | | | | base of interval set at end of dfmd shr text and gradational lightening of colour downwards. | | | 168-172.4 | 750-900 |
| | | | | | | | 169.70 | 1060 |
| 172.20 | 185.30 | - | | <u>wkly med shr texted dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 185.30 | 208.55 | | | <p>med to lt gy, with lt ol-gy and y-gy. the interval is composed of f.g., eqgr Carb. accessory mins are essentially fl and fine ameboid patches (w dol) and fine grains. the lt gy rocks below 182.5 m contain five patches of a v.f.g. r-br min.</p> <p>dk p is present throughout as the dissemination mentioned above but most as shrd zones and shr parallel dfmd vnlets. aggregate less fl than above and more "spread out."</p> <p>the shr bndg is much less dfmd but not planar, often wispy and str wavy. it is most visible in the fl-rich sections far from uniform throughout.</p> <p>lower ctc (gradational) set at place where, below, lt gy colour predominates.</p> <p>shr bndg: 28° (172.6 m), 37°(175.4 m), 27° (179.2 m), 33° (181.4 m), 35° (184.6 m).</p> <p>major fl zones: 172.5-172.8 m (mod, planar shr fl), 173.8-175.0 m (wk, shr, local str dfmd), 176.0-176.3 m (shr), 179.55-179.7 (dfmd solid fl wispy patch), 181.1-181.7 m (wk, wispy shr), 182.05-183.35 m (wk, shr-ctsc zone), 184.0-185.1 m (same, mod).</p> <p>172.7 to 173.0 m, 180.65 to 181.9 m - y-gy coloured.</p> <p><u>shr bnded to loclly mass f.g. dol-Carb</u></p> <p>lt gy to lt-mod ol-gy. texturally the interval is dominated by patches of evenly irregular, sub-planar shr bndg 10-50 cm long interspersed in wkly bnded to mass f.g. gy Carb. some narrow zones of wk ctcs sub-rnded w carbonate frags 1 mm-1 cm in lt gy Carb mtx.</p> <p>fl mostly in shr bnded areas, up to 40% v. little frac fl.</p> <p>the Carb is almost acesyory min-free. a little py and loclly some fine patchy of a r-br min near fl eqgr carbonate, f.g.</p> <p>cut by thin (1-2 cm) late v.f.g. often bnded Carb dykes. cut shr bndg.</p> | | | | |
| | | | | 172.40-178.50 | 600-650 | | | |
| | | | | 178.70-183.00 | 450-550 | | | |
| | | | | | | | 179.70 | 670 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|--|---------|---------|
| | | | | | | | DEPTH (m) | CPS | | | |
| 208.55 | 287.95 | - | | <p>major zones of fl-rich thin shr bndg 187.45-189.2 m (str patchy locly str some fl-rich "clsts"), 190.95-190.15 (shr), 190.4-191.7 m (med), 192.55-192.75 m (shr, med) 194.45-194.6 m (shr-ctsc), 194.9-195.15 m (shrd), 198.15-198.65 m (mod to v. str, shr, patchy) 198.8-199.3 m (med-lower), other lesser, narrower zones.</p> <p>shr bndg 30° (187.5 m), 34° (190.2), 31° (192.6 m) 35° (195.15), 44° (198.3), 32° (201.4 m).</p> <p>late Carb dykes: 191.85 m (4 cm +, bnded 0° TCA), 195.1 (1 cm, bnded, 40°) 201.1 (bnded 2 cm, 22").</p> <p>below 201.5 m - shr bndg decreases and brittle dfmd increases - texts more chaotic. fl also decreases.</p> <p>203.7 m to 205.95 m - dkr (med ol-gy).</p> <p>base of interval set at increase in fl continues.</p> <p><u>shr bnded to mass f.g. dol-Carb</u></p> <p>It gy to br-gy to med ol-gy definatly the earliest text is a fine shr bndg at ± 30° TCA. this is often dfmd by plastic contortion and psd-brcn producing a psd-mass text and disaggregating competant. late features are un-dfmd diatreme brc with f.g. Carb mtx and fl py void infill. both are rare.</p> <p>fl occurs as dfmd shr bnded sections disaggregated cm scale pieces of semi-mass fl and late fl to py.</p> <p>fl-rich zones 208.55-209.05 m (wk, shr bnded) 209.6-210.1 m (30% 5 + cm fl chunks in mod shr bnded), 210.35-210.8 m (mod,shr bnded), 211.08-211.25 m (15% elongate chunks solid fl), 211.5-211.8 (fl-py infilling late brc), 212.35-212.65 (50% large mass fl chunks up to 5 cm), 213.0-213.55 m (wk shr brc with 2 chunks), 218.45-219.35 m (patch dfmd str shr text), 219.9-220.0 m (lg solid fl (py) chunk in diatreme brc), 220.0-221.6 m (patches (30%) of dfmd shr text), 223.0-223.7 (mod, dfmd shr text), 228.1-228.3 (wk, dol shr text). other lesser, shorter zone.</p> | | | 183-202 | 400-550 | | | |
| | | | | | | | | | | 202-219 | 700-800 |
| | | | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | shr bndg 19°(209.7 m), 39° (212.7 m), 27° (217.7 m), 37° (221.6 m), 32° (228.8 m). | | | 223.20 | 1150 |
| | | | | late diatreme brc 211.4-211.7 m equant w Carb clsts to 3 cm in med gy v.f.g. Carb mtx), 219.85 m. | | | | |
| | | | | note: the Carb near and weaken shr fl zones often contain fine patches of v.f.g. br-r min. | | | 223.20 | 1150 |
| | | | | 224.0 to 231.5 m - relatively fl-poor. Below 220.0 colours of br to ol lt med gy predominant. the shr bndg where prominent is str folded and more irregular especially below 230.00 m. this disruption to the shr bndg appears to increase downwards. | | | 227.40 | 1120 |
| | | | | the fl "chunks" appear late vns intrude during the shrg than subsequently broken up during continued movement. | | | 231-237 | 700-550 |
| | | | | fl-rich zones (conti) 231.4-232.4 (wk-mod shr text), 233.0-233.45 m (mod shr brc, dfmd), 234.1-235.9 m (wk to str wavy shr texted), 234.1-235.9 m (wk to str wavy shr texted), 236.1-237.3 m (patches of wk to mod shr text), 237.4-240.7 m (str shr text fl with broken mass fl "chunks" 3 cm thick arranged foliation parallel). 241.0-241.95 m (mod shr texted with 3 mass, fol parallel fl vns, up to 6 cm thick), 242.1-24.0 m (med shr text, patchy), 246.05-246.25 m (wk, vague shr text.), 247.25-247.6 (mod, shr text, fl "chunks"), 248.0-248.9 m (str shr text), 249.75-250.25 m (ctsc shr text), 253.0-253.85 m (wispy fl vns in wk shr, often broken up), 256.05-257.70 m (shr, re-brcd), 258.0-259.4 m (highly dfmd and broken fl vns 40%). | | | 237-250 | 450-550 |
| | | | | plastic shr bndg (conti) 26° (232.3 m), 38° (235.3 m), 32° (238.3 m), 25° (241.3 m), 33° (244.7 m), 31° (250.5 m). below 253.3 m the shr bndg is too broken/dfmd to measure. diatreme brc 254.25-255.0 m (frags of varicolour f.g. Carb to 7 cm in sparse Carb mtx. v. clst rock. 261.4-261.75 m (Carb clsts with fl and py clsts). | | | 250-263 | 550-700 |
| | | | | the shr bndg is often wkly ctsc contains equant to elliptical lt coloured carbonate bodies mm-1 cm in a carbonate a fl mtx. psd pbc. | | | 252.00 | 890 |
| | | | | below 259.35 m - the mass, fl vns and "chunks" disappear. shr bnded fl. continues. | | | 253.50 | 810 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 287.95 | 349.15 | - | | major fl-rich zones (all shr bnded unless noted) (conti) 259.65-259.95 m (med, str disrupted) 260.65-260.95 m (wk), 262.0-262.15 m (str), 262.6-262.95 m (med), 263.4-263.7 m (mod to wk), 265.4-265.85 (wk), 266.95-267.1 m (mod), 268.7-268.9 m (str; with c.g. py), 270.65-271.45 m (wk), 272.0-272.55 m (mass, late, infilling fine brc, with abnt py), 274.45-274.75 m (wk), 275.7-276.3 m (mod, patchy), 281.4-282.05 m (mod, v. disrupted) 282.85-283.05 (same) 284.5-284.7 m (patchy infillate, fine brc), 285.0-285.65 m (med, disrupted patchy). | | | 263-270.5 | 700-850 |
| | | | | 271.5 to 284.5 m - colour lightens overall (lt gy). | | | 270.5-281 | 550-650 |
| | | | | pale y hue, carbonate locly translucent mod. disrupted 275.45-276.1 m, 281.0-283.4 m, 287.4-???? | | | 281-291 | 450-600 |
| | | | | shr bndg (conti) 23° (259.9 m), 34° (262.8 m), 45° (267.0 m), 29° (270.3 m), 17° (275.0 m), 34° (279.2 m). | | | 266.30 | 1060 |
| | | | | late mass med py infilling of line brc. 268.75 m (4 cm, bndg parallel), 272.35-272.55 m (70% py + mag, mags 1-3 mm Carb), 278.65 m (5 cm patch), 268.25 m (2 cm bnd), 261.4 m (thin frac filling), 261.7-261.85 m (frac fill @ base of diatrema brc). | | | 268.40 | 940 |
| | | | | under the hand lense the only accesory phase seen is vague lt brown patches in the carbonate. no r-br patches seen. | | | | |
| | | | | lower ctc set at end of prominent shr bndg and shr fl and onset of more brittle texts. | | | | |
| | | | | <u>mushy texted, mass dol-Carb with brittle overprint</u> | | | | |
| | | | | med ol-gy to br-gy locly lt y-gy. the early texts present are of plastic psd-brc, slightly ghosty, ill-defined bulbous "clsts" of f.g. Carb, pressed together, little mtx which is med gy Carb. "clsts" tend to be ltr coloured than the mtx. these are not brittle texts. the overall effect is mass. this "host" is cut by patches of random brittle fracs, rare vuggy zones. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>fl is much less abnt than alone. presentes shreads in old brc, rare shr bnd, and as washes on late, brittle fracs. possibly some patches of v.f.g. disseminations. the Carb is f.g., eqgr. accessory mins are rare. some v.f.g. phl? loclly ultra-disseminated fl. rare patches of lt br and r-br stain? overdes(sp?) v.v.f.g. mins - probably the latter.</p> | | | 291-297.5 | 450-510 |
| | | | | <p>completely mass porphyry 291.0-296.65 m, 296.75-297.25 m, 299.65-302.35 m. these porphyry are composed of phenos of w carbonate 1 mm-8 mm clsts of dk p fl with parasite in a lt br to gy v.f.g. dol silica mtx. at the top of each interval the porphyry in mtx-rich, becoming more pheno-rich towards base. top 35% phenos, base 80%. the evolic fl clsts are concentrated near the tape. this porphyry is cut by the late v.f.g. ol thin Carb dykes and brittle fl lined fracs. r to r-og parasite(?) is common in mtx, fl clsts and with fl in late fracs. loclly xenoliths of the Carb present, these are much larger than the phenos. upper ctcs of porphyrys sharp, lower abrupt, all 25-35° TCA.</p> <p>zones of late brittle fl-lined frac: 293.0-293.8 m, 298.6-300.5 m, 301.4-302.1 m.</p> <p>vuggy zone 306-306.2 m. late core parallel fracs 307.15-307.25 m (rare, dol xtl laths in vugs), 310.45-310.65 m (pin vugs in bleached zone).</p> <p>mag + py patches 298.55-298.65 m, fl mag dol fine bnded 52° TCA.</p> | | | 297.5-316 | 450-575 |
| | | | | <p>below 323.0 - patches rich in fl appear 5-20 cm long. these resemble highly disrupted shr bnded fl. these extend to 339.0 m. the host Carb in this interval is lt br-gy. fl patches: 323.0-323.2 (str), 323.4-323.5 m (med), 324.4-325.0 m (25% small patches), 325.2-325.3 (v. str shr bnded), 326.15-326.25 m (wk), 327.2-327.35 m (2 patches, 60% of interval), 332.55-333.15 m (60% small patches), 334.0-335.0 (10% fl lined in frac), 335.3-335.75 m (30% small patches), 337.1-338.8 (15% small patches.)</p> | | | 316-321 | 600-700 |
| | | | | <p>colour mottled: 319.1-320.65 m tan ameoid 0.5 cm scale colour patches in med gy Carb. the rock is finely vuggy throughout. mottles reduction spots.</p> <p>bndg: 42° (315.8 m), 48° (324.3 m), 53° (327.2 m), 46° (333.3 m), 45° (335.35 m), 37° (341.4 m), 39° (342.9 m).</p> | | | 321-345 | 400-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 349.15 | 373.45 | - | | <p>dkr coloured: 341.1-342.8 m. dk br, often finely bnded.</p> <p>lower ctc set at beginning of less mushy more bnded text and str increase in patches of fl shr bnded fl. gradational.</p> <p><u>mass to bnded, f.g. dol-Carb</u></p> <p>It to med ol-gy to gy. two texted varients present. the mass area are swirly to ameboid texted, not as psd-brc as above. the remainder of the interval is mod colour bnded. not obviously shr texted except in fl-rich zones. at the top of the interval 60% mass, 40% bnded. the bnded area do not contain any ctsc looking rocks. overall less "dfmd looking" then above.</p> <p>fl occurs as 1 - shr bnded patchs, variably dfmd, 2 - mm-1 cm fl clsts and frags, widely scattered, less than 1%, 3 - rare late fracs find with fl.</p> <p>under the hand lense the Carb is composed of f.g. eqgr suc carbonate. common v.f.g. blk flecks (phl, opaques) and fl dots are the common accessories. no py. (ex in frac). in frac are lined with dk fl and br, v.f.g. phl(?). rock enclaving small br discoloured patches.</p> <p>fl-rich areas: 349.15-349.65 m (60% swirly-dfmd along fl. patches), 349.9-350.1 (wk dfmd bndg), 355.6-356.05 (60% med-str dfmd shr bnds), 359.17 m (6x3 m floating solid fl, chunk), 359.5-359.75 m (highly dfmd shr bnded patch), 370.45-371.0 m (wavy, near core parallel bnd of shr fl), 373.1-373.4 m (highly dfmd zone, wk fl).</p> <p>bndg: 32° (351.75 m), 26° (356.5), 32° (358.5), 34° (364.0 m), 9° (370.75 m), 45° (373.4 m).</p> <p>fl py mag vn 354.65 (1 cm, 34° TCA)</p> <p>carbonate xenoblasts with itsl carbonate fl 369.75-369.85 m. ctc abrupt, not sharp colour mottled zone 365.4-367.25 (irregular, distributed ameboid reduction spots with some pinpoint vugs).</p> <p>lower ctc set at end of bnded sections and shr bnded fl.</p> | | | 345-375 | 390-490 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|---------|
| | | | | | | | DEPTH (m) | CPS | |
| 373.45 | 425.25 | - | | <p><u>mass, irregular texted dol-Carb</u></p> <p>med ol-gy to gy. texts vary from true mass to ameboid to psd-brc. texts defined by str colour variations. the Carb is f.g., eqgr, suc. the various texts look plastic without significant movement.</p> <p>fl is minor in this interval, present mostly as late frac. filling with some isolate sub 5 mm dots. below 381.0 even these latter are rare.</p> <p>overall this is the least fluoritic unit I have seen in this hole, and the most mass and homo.</p> <p>384.95 m to 385.02 m - thin fl py mag filled fracs.</p> <p>378.8 m to 379.1 m - fl and euh dol fill brittle voids.</p> <p>zone reletively rich in fl dots and fracs 378.8-379.1 m, 409.1-409.65 m, 413.6-414.2 m.</p> <p>mush-texted zone 393.7-394.5 m. lower ctc sharp, late frac.</p> <p>wk fl in broken bndg 389.75-390.15 m, 391.35-391.45 m, 407.0-407.15 (wk), 407.63-407.7 m (broken mass fl patch) 410.25-410.5 m (25% bets(sp?)) 417.85-418.0 m, 424.1-424.2 m (wk).</p> <p>somewhat dkr coloured (med gy) 404.15-407.65 m. upper ctc sharp (51° TCA), lower gradational. 414.15-416.05 m (v. mass). patches of packed brittle brc (v. mtx-poor), 409.5-409.7 m (lower ctc late frac), 411.6-411.85 m (frac zone with movement), 422.55-422.75 (zone), 408.0-408.5 m.</p> <p>lower ctc set at beginning of alt dfmd - host rock similar.</p> | | | 376.80 | 585 | |
| | | | | | | | | 375-379 | 450-550 |
| | | | | | | | | 389.30 | 520 |
| | | | | | | | | 379-406 | 350-450 |
| | | | | | | | | 406-425 | 300-350 |
| 425.25 | 434.65 | - | | <p><u>swirly-dfmd f.g. dol-Carb with dfmd fl patches</u></p> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|---------|
| | | | | | | | DEPTH (m) | CPS | |
| 434.65 | 479.65 | - | | <p>lt ol-gy to br-gy with dk p patches. the "host" rock is f.g., eqgr suc dol with common ang fin fl clsts with associated py. the megascopic text is swirly-mass hetero in fine detail, no ctsc, no bnds.</p> <p>ameboid areas on cm scale of various colours. fl present as 2-10 cm patchy of fl dol f.g. py ± f.g. phl and r-br min. texts resemble dfmd and disaggregated shr boundary.</p> <p>major fl patches: 425.25-426.35 m (60% dol. str patches), 426.8-427.3 m (str brc texted), 429.0-430.2 m (60% mod to str patches, all med dfmd), 430.5-430.95 (rare), 431.15-431.95 m (small med to wk patches str dfmd), 434.5-434.65 m (med, wk def).</p> <p>shr bndg 62° (430.7 m), 70° (434.6 m).</p> <p>lower ctsc set at end of abnt fl. patches - abrupt.</p> <p><u>mass mottled ameboid f.g. dol-Carb with bnded zones</u></p> <p>med gy-ol, gy-br with patches of y-dull green. overall gy than alone. this interval is composed of mass, irregularly texted Carb. it is f.g. to v.f.g. (finer ??? eqgr). always contains fine fl dol patchy and fine broken fl grains, as well as fl-ned fracs.</p> <p>megascopic textes are mass to clumpy - ameboid to streaky. locly bnded. fl present megascopically as dfmd shr bnded patches, concentrated diss "chunks" and infilling late brittle structures.</p> <p>445.2 to 447.55 m - y-gr coloured zones. short patches other colours 452.2-453.7 m (slight).</p> <p>major fl areas: 436.05-436.30 m (20% diss and small "chunks"), 436.85-437.0 m (wk diss), 437.95-438.15 m (wk swirly diss), 438.9-439.05 m (dfmd patch), 442.85-443.3 m (40% dfmd shr bnded patches), 444.05-444.1 m (med dfmd shr bnded).</p> <p>445.75 to 445.9 m - (wk flow bnd), 446.65-446.9 m (concentrated zone of brittle fl-lined frac), 453.0-453.1 m (wk shr bnd). other lesser area noticably less fl below 448.3 m.</p> | | | 425-435 | 360-440 | |
| | | | | | | | | 435-450 | 310-360 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 479.65 | 515.00 | - | | <p>bnded zones 448.75-449.1 m (67°), 450.85-452.7 m (83°), 454.2-455.3 m (62°). this is colour bndg, no shr textes (but not primary).</p> <p>zones of abnt late brittle, irregular fracs 458.5-459.4 m, 460.55-460.9 m, 464.1-464.1 m, 472.65-473.3 m, 474.5-475.55 m, 477.5-479.65 m. some fl lined but many are not. recent ± core parallel frac: 467.65-468.0, 469.05-470.5 m. low RQD.</p> <p>fl zones (conti) 465.2-465.3 m (str dfmd shr bnd) 466.3-466.65 m (50% small patches). lower ctc set at marked darkening of colour below.</p> <p><u>f.g. dk gy, mass, irregular, dol-Carb.</u> dk gr-gy to med gy-br.</p> <p>this interval is quite dk coloured. It to composed of f.g.-v.f.g. granular equant carbonate. the dk colours caused by finely divided phl. no accessory py or fl. except near late fracs where these are common (fl in frac, py nearly in one case (505.5 TS) astrophyllite was abnt in a fl fracturing. patches of r-br stain locly and a couple of small, euh parasite. the megascopic textes are mass, ameboid defined by str colour variations. locly psd-brc. astrophyllite in fl frac at 505.5 m.</p> <p>no bndg, v. little fl. overall ex. in late fracs.</p> <p>megascopic.</p> <p>relatively lt coloured (med br) 479.85-484.4 m, 487.2-488.9 m, 499.1-499.9 m, 500.3-501.7 m, 506.4-508.8 m. @479.65 m - hydraulic frac zone, main frac 25° TCA with perpendicular propegating fracs.</p> <p>zones rich in late, brittle, random fracs 481.4-482.25 m, 482.5-483.0 m, 486.35-486.8 m, 500.5-501.05 m, 503.6-503.85 m, 505.25-505.65 m, 506.4-506.9 m, 512.6-513.3 m.</p> <p>bndg 55° (484.75 m), 36.0° (504.0), 54° (509.9 m).</p> | | | 456-472 | 350-450 |
| | | | | | 463.75 | 550 | | |
| | | | | | 472-484 | 500-600 | | |
| | | | | | 482.20 | 960 | | |
| | | | | | 486.10 | 900 | | |
| 492.55 | 1250 | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 515.00 | 533.85 | | | the darkest dk gr rocks are the most mass with ????(scratched out) up to 0.5 m + with out the irregular ameboid text is 509.2 m. | | | 493.70 | 1160 |
| | | | | this interval is quite RA and rather homo overall except for colour variations. | | | 510.00 | 1400 |
| | | | | 489.3 to 489.75 m - 40 cm lost core. | | | | |
| | | | | the RA zone @511.1 m is composed of f.g. suc clear dol, much diss xtl of a vitreous, equant y min, probably mnz, 4-5% with dol phl minor py, trace fl. | | | 511.10 | 1320 |
| | | | | lower ctc set at abrupt lightening of colour and sharp decrease in RA. ctc sharp, planar frac, 36° TCA. | | | 484-515 | 650-800 |
| | | | | <u>mass, f.g. rare coloured dol-Carb</u> med-dk gy, med br-gy, lt br-gy. colour irregularly lightens downwards. the upper part of the interval (above 523.8 m) is v. mass, locly to the point of being fracless. mostly wavy swirly to regularly ameboid. below 523.8 m - colour lt br-gy and the rock is more hetero texted. text is severly-dfmd, occasional swirls and ameboid patches of fl Carb py. completely mass: 515.0-517.1 m, 522.2-523.25 m (f.g.-v.f.g.) under the benocular, fine clusters of a S1. br-y vitreous min often present, throughout interval, not associated with min. are these clusters mnz. 531.1 to 531.26 m - short 16 cm core. patchy swirly fl ± py, 523.75-524.25 (15%), 524.5-524.85 (10%), 526.8-527.35 m (20%), 527.75-528.6 (15%, some frac controlled), 528.85-529.15 m (15%), 532.35-532.8 m (25%, mostly frac controlled). acute swirly textes below 531.5 m. lower ctc set at beginning of abnt late, brittle, random, fl-lined fracing - abrupt. | | | 515-519 | 300-450 |
| | 519-548.5 | 200-270 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 533.85 | 548.60 | | | <p><u>mod fracd f.g. dol-Carb</u></p> <p>med to lt br-gy. the dominant text is late, brittle fracturing on a med scale (cm). the fracd are fine ± random and non-planar. they are lined with v.f.g. phl fl ± py. the abnt of fine phl is anomalous. the Carb has an early, rather coarse psd-brc text.</p> <p>@ 545.2-545.4 m - a brittle brc occurs it is infilled by v.f.g. phl, surrounding fine euh xtls of pale mass fl and clusters of og, REflc mins.</p> <p>late phl fl py infilled brc: 545.2-545.4 m, 545.75-545.85 m.</p> <p>relatively unfracd: 535.05-535.85 m, 536.85-538.0 m, 543.3-545.25 m, 547.8-548.6 m.</p> <p>lower ctc set at first appearance of non-Carb rocks.</p> | | random fracd. | | |
| 548.60 | 558.70 | | | <p><u>f.g.-v.f.g., feintized phl albite amph rocks cut by dol vns</u></p> <p>548.6 m to 554.50 m - Glim, >50% phl irrelevant of grain size.</p> <p>554.50 m to 558.7 m - py common (0.5 m equant grains) "mafic" (too much dol for S-Carb) Carb?, much less phl than above. lots of brc. will confirm Carb with assays.</p> <p>558.7 m - EOH - dk gy Carb. much less py (trace), much less brc to minor small frac (healed). looks more simple and mass.</p> <p>the rock is f.g. with a good schistosity. it is composed of dk gr phl and ablite? with minor py and traces of b pyroxene and fl. not Glim too f.g.</p> <p>this rock is cut by two or more generations of w Carb vns, some folded, some planar. about 30% down to 553.95 m. below this interval strongly shr brcd. mod fabric. recognizable phl rock frags down to 555.2 m.</p> | | | 548.5-557 | 175-230 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 558.70 | 563.60 | | | <p>abruptly @ 556.1 to the base of the interval, the interval changes to late brittle brc broken clsts of f.g. Carb, sub mm to max 1 cm. clsts 80% to 50%. the mtx is dk p fl studded 1-5 mm euh py. both ctc of this fl-brc sharp ± 35° TCA.</p> <p>shr fabric: 44° (550.65 m), 41° (557.1 m), 38° (555.8 m).</p> <p>alt wr 548.6-553.95 m. shr brc dirty Carb 553.95-555.5. fl f.g. brc 555.5-558.7m.</p> <p><u>mass f.g. dol-Carb</u> dk gy to med gr-gy.</p> <p>rock is f.g. eqgr, suc Carb. accessory mins limited to dots of fl. the interval is mass and quite textureless except for fine late irregular brittle frac lined with phl fl py. fracg particularly intense 558.7-559.55 m. v. homo below this fine brc infilled with fl, c.g. py, trace mnz 561.25-561.3 m.</p> <p style="text-align: center;">EOH</p> | | | 557-563.6 | 450-650 |
| | | | | | | | 559.80 | 970 |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536433.57 | Drill Company: Cartwright Drilling Ltd. | Date Started: Apr 08, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312077.60 | Rig Type: CDI 500 | Date Completed: Apr 12, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 353.57 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: C.Knight | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|--------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 6.85 | OVb | | <p><u>OVb</u></p> <p>no core; no casing block.</p> | | | | |
| 6.85 | 32.36 | dol-Carb | | <p><u>f.g. dol-Carb</u></p> <p>colour: med lt gy (N6) and lt ol-gy (5Y 6/1)</p> <p>minerals: dol: 97%, f.g., anh; fl: 3%, f.g. to v.f.g., anh; py: trace, f.g. to m.g., anh to euh, locld; trace: v.f.g. pk (mod r, 5R 5/4) min bsn? prs?, locld; trace: sul (sph?)</p> <p>overall ctsc text, m.g. anh to euh w dol clsts (euh clsts=xenocrysts?), v.f.g. to f.g. dol mtx, locld mtx- sup brc and mod to str bnded sections. fl blebs, pods, patches bnds, thin stringers throughout interval. common lt ol-gy (5Y 6/1) - pale ol (10Y 6/2) dol-Carb and fl dol-Carb dykelets x-cut everything and eachother (abnt every 0.25-0.5 m). some dykelets are zoned/bnded with med dk gy (N4) bnds (v.f.g. mafics?) and/or fl abnt bnds. locld portions appear wkly to mod fol (shrd?), thin stringers, pods and patches of dol xenocryst (?) aggregates are common. minor locld chl ± py filled vugs and fracs. locld (rare) qtz ± fl vnlet and vn x-cut everything.</p> <p>6.85 m to 7.45 m - ltr coloured (w-v. lt gy) section than rest of unit, fl rare to absent, few r-br coated fracs and vnlet (hem?, lim?).</p> | | 6.85 m to 32.36 m - ctsc | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 11.50 m to 12.51 m - poorly sorted mtx-sup brc, w-cr 2 mm to 2 cm rnd to sub-rnd dol clsts (some comprised of m.g. dol aggregated) lt ol-gy (5Y 6/1) v.f.g. dol mtx, wk fol (shrd?), may be late stage dol-Carb brc vn?, abnt filled fracs at up ct, mod fl-dol pockets and blebs throughout, bottom 9 cm clst sup, ang dol-Carb clsts, some with fl-dol rims. | | | 11.78 | 510 |
| | | | | 15.46 m to 16.44 m - poorly sorted mtx-sup brc, 2 mm-5 cm w-cr sub-rnd to ang dol-Carb clsts - some brcd, some comprised of dol xtl aggregates (xenocrysts?), v.f.g. med gy (N5) dol mtx; interval appears re-brcd. | 15.05 m - fol, 26°, shearing | | 17.00 | 610 |
| | | | | 18.90 m to 19.34 m - str bnded section, alternating w-lt gy bnds comprised of dol grains (xenocrysts/ and med gy bnds (v.f.g. mafics?). | 19.30 m - comp bnd, 45° | | 18.66 | 730 |
| | | | | 22.06 m to 22.48 m - bsn?- prs?, 3% v.f.g., pale r-br (10R 5/4) - lt br (5YR 6/4), itsl to dol. | | | | |
| | | | | 23.18 m to 23.74 m - few fracs coated with mod r-br (10R 4/6) min sid?, H : 3, wk fizz with + hcl), also locld pk (mod r, 5R 5/4) v.f.g. min in blebs and thin vnlet - bsn?/prs? | | | | |
| | | | | 24.54 m to 26.85 m - bsn?- prs?, v.f.g., r-og (10R 4/6), itsl to dol, 3-5%. | | | | |
| | | | | 25.54 m to 26.85 m, 26.72 m to 29.63 m - aph intervals, eqgr v.f.g. to f.g. dol, latter interval with abnt zoned x-cut dol-Carb dykelets. | | | 28.84 | 600 |
| | | | | 29.63 m to 31.03 m - abnt zoned dol-Carb dykelets with f.g. py and v.f.g. to f.g. mafics (sul?) x-cut everything and each other - multiple dykelet generations - 3 mm-6 cm across. | | | 31.13 | 580 |
| | | | | 32.36 m - ctc, grad over a few m, inc fl abnt, colour lightens to cr-bg (10YR 8/2) and lt gy (N7), ctsc text → patchy text. | | | | |
| | | | | unit total count: unit avg: 501 CPS unit high: 730 CPS unit low: 325 CPS | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|--------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 32.36 | 122.30 | dol-Carb | | <p><u>f.g. fl dol-Carb</u></p> <p>colour: lt cr-bg (10YR 8/2) to lt gy (N7) and p (5P 2/2)</p> <p>minerals: dol: 92%, f.g., anh; fl: 8%, f.g., anh; py: trace, f.g., anh-euh; bsn? prs?: tracem v.f.g. to f.g., anh, ltr (5R 6/6) trace: ap, sul, phl, qtz,</p> <p>text hetero unit, ctsc text at top comprising with m.g. anh dol-Carb clsts (xenocrysts?) in f.g. to v.f.g. cr-bg (10YR 8/2) - lt gy (N7) dol mtx, with locld mod-str shrd sections. pods and patches of dol-Carb clst aggregates separated by fl abnt patches and thin bnds/stringers are common. unit grades to patchy text at 64.50 m, comprising fl abnt patches throughout lt gy (N7) to lt ol-gy (5Y 6/1) f.g. eqgr dol gdmass. unit grades to wk-mod bnded text at 107.59 m defined by abnt thin diffuse fl bnds (flow bndg?). fl primarily occurs as patches and diss blebs throughout unit and as later locld frac and vug infill and as within dol-Carb dykelets described below. locld frac and vug infill and within dol-Carb dykelets described below. locld og-pk to lt r (5R 6/6) v.f.g. to f.g. mineralization (bsn? to prs?) throughout unit, apparent positive correlation with increasing fl content. late stage dol-Carb and fl dol-Carb dykelets x-cut everything and each other (multiple generations), typically every 0.25 m to 0.65 m. ctcs with host Carb typically sharp, rarely diffuse (healing?). dykelets commonly zoned with thin dk gy v.f.g. mafics (sul?, phl?) bnds/streaks and or v.f.g. fl ± v.f.g. bsn? prs? minor qtz (± bsn? + prs? ± fl ± dol) vns and vnlet x-cut host Carb and dol-Carb dykelets locld qtz ± dol ± fl and fl ± dol filled vugs and pockets - late stage feature mod r-br (10R 4/6) to med lt gy (N5) hem filled frac and vugs (± lim?) common at top of unit, dec(decending?) down hole. v.f.g. to f.g. med gy to med lt gy (N6-N5) met mafics (sph?, sul?) occur as frac infill, thin stringers/streaks and concentrated pods.</p> <p>35.90 m to 36.20 m - qtz ± dol vns, ~3 mm across cut host dol-Carb and dol-Carb dykelet.</p> <p>37.66 m to 38.08 m - mod shrd, str fl bndg. bndg, 34°, shrd?</p> | | 32.36 m to 64.56 m - ctsc text | | |
| | | | | | | | 38.80 | 605 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 40.19 m to 40.67 m - mod sorted mtx-sup brc, 2 mm-1 cm sub-rnd dol-Carb clsts, med to med dk (N5-N4) v.f.g. dol mtx, ang bnd clsts at top appear to be sourced from dol-Carb dykelet. | | | 41.80 | 515 |
| | | | | 43.38 m to 48.93 m - v.v.f.g. to v.f.g. pk-og to mod r (5R 4/6) mineralization (bsn? prs?); as diss grain aggregates and blebs, may be v.v.f.g. hem as hem filled fracs and blebs common here. | | | | |
| | | | | 50.15 m to 51.12 m - open space filled fl dol qtz vn x-cuts everything, minor fl dol qtz filled pockets. | | | 50.35 | 530 |
| | | | | 55.66 m to 58.60 m - fl content decreasing to 2-3%, text more mass and eqgr than overall ctsc text seen above, at interval end 9 cm wide zoned dol-Carb dykelet truncated by f.g. to m.g. anh to euh py-v.f.g. dk gy (N3) sul (sph) - v.f.g. dol vn. | | | 55.23 | 500 |
| | | | | 59.68 m to 60.00 m - poorly sorted clst sup dol-Carb brc vn, sharp ctcs, ang v. lt gy (N8) - med gy (N6) dol-Carb clsts - (2 mm-2.5 cm avgs) in v.f.g. med gy (N5) - lt ol-gy (5Y 6/1) dol-Carb mtx. | 59.68 m - ctcs, dol-Carb brc vn, 21° | | | |
| | | | | 60.10 m to 68.27 m - bsn? prs?, 3-5%, v.f.g. to f.g. pk-og (10R 6/6) - lt r (5R 6/6) min in blebs and clusters of diss aggregates. | 60.00 m - ctcs, dol-Carb brc vn, 26° | | 61.20 | 575 |
| | | | | 60.16 m to 60.43 m - dol qtz (± fl) vns x-cut everything (3 and 8 mm across). | | | | |
| | | | | 62.50 m to 64.50 m - wk to mod fol defined by thin diffuse fl bnds (flow bndg?). | 63.82 m - fol, wk thin fl bnds, 3°, ~ parallel TCA | 64.50 m to 107.59 m - patchy text. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | unit colour darkens to lt ol-gy (5GY 6/1) and gy-p (5P 4/2) for remainder of unit interval. | 64.33 m - fol wk thin fl bnds/ stringers, 13° | | | |
| | | | | 70.08 m to 71.50 m - fl content decreases to 2-3%, ctsc text, 2-5 mm w dol-Carb clsts in v.f.g. to f.g. med gy (N5) mtx, mod shrd. | 70.90 m - fol, 35°, shearing | | 69.22 | 515 |
| | | | | 76.12 m - 1 cm wide brc vn x-cuts host dol-Carb and dol-Carb dykes, clst-sup, ang dol-Carb clsts rimmed with pk-og (10R 6/6) min (bsn? prs?, rare) - qtz (minor) dol fl (abnt). | | | 73.81 | 800 |
| | | | | 75.88 m to 78.16 m - ctsc text, with sub-rnd dol-Carb clsts (xenocrysts?) in v.f.g. to f.g. med gy (N5) mtx, abnt zoned dol-Carb dykelets running approx parallel TCA x-cut everything, 1 dykelet wkly deformed and locly faulted/broken, 1 dykelet with abnt chl (+sul?) vugs (1-3 mm avgs). | | | 77.90 | 935 |
| | | | | 79.04 m to 167.59 m - fl content decreases to 5%, fl patches less abnt than previous. | | | | |
| | | | | 79.88 m to 80.12 m - hydrothermal brc, clst sup, ang dol-Carb clsts (1-3 cm avgs) rimmed with v.f.g. w dol - f.g. qtz ± fl ± f.g. to m.g. salmon pk (5R 6/6) bladed to tabular min with H : 7 (kfs?), min order listed from clst edge towards centre. | | | | |
| | | | | 82.63 m to 82.90 m - 3 mm wide qtz vnlet with minor pk (5R 6/6) min (bsn?- prs?), approx parallel TCA. | | | 82.04 | 735 |
| | | | | 90.84 m to 91.75 m - fl, 15%, v.f.g. to f.g., diss. | | | 87.67 | 675 |
| | | | | 92.04 m to 95.13 m minor interval f.g. dol-Carb | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>colour: med lt gy (N4) to med gy (N5)</p> <p>minerals: dol: 97%, f.g., anh; fl: 3%, v.f.g., anh, to f.g.; trace: py, bsn? prs?</p> <p>hetero text, top section aph with rare rnd w dol grains (xenocrysts) grades to ctsc text; w rnd to square rhomb (euh) shaped dol-Carb clsts in v.f.g. to f.g. med lt gy (N6) dol mtx. few 4-6 cm med gy ang dol-Carb portions (enclaves?) mod late fl filled microfracs and blebs throughout.</p> | | | | |
| | | | | <p>94.51 m to 95.10 m - few dol-Carb dykelet with outer rims of v.v.f.g. to f.g. pk-og (10R 6/6) diss min (bsn? prs?).</p> | <p>92.04 m - ctc dec fl content, grad</p> | | 94.30 | 595 |
| | | | | <p>95.13 m to 97.74 m - fl, 10% v.f.g. to f.g. itsl to dol xtls in gdmass, also filling fracs and small blebs/vugs.</p> | <p>95.13 m - ctc inc fl content, grad</p> | | | |
| | | | | <p>97.62 m to 97.82 m - clst sup brc, ang dol-Carb clsts, fl-dol mtx (50-70% fl).</p> | | | | |
| | | | | <p>100.58 m to 101.76 m - v.v.f.g. to v.f.g. med dk gy (N4) sub-met min ± v.f.g. to f.g. py (sph?) occurs in diss blebs (1-2 mm across) and filling microfracs, ~2-3% overall.</p> | | | | |
| | | | | <p>100.58 m to 101.76 m - sph?, med dk gy, sub-met, 2-3%, see description comments.</p> | | | 101.15 | 815 |
| | | | | <p>102.00 m - 10 cm patch with 35% min, fluoresces w under UV light (ap?).</p> | | | | |
| | | | | <p>103.35 m to 104.06 m - psd-brc - ctsc? text, mod-str shrd, minor fl filled fracs. fol, thin fl bnds/stringers, mod shrd, 45° TCA</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 104.62 m to 107.05 m - abnt zoned dol-Carb dykelets, all relatively parallel, 3-6 cm across, some with v.v.f.g. to v.f.g. honey y mineralization (mnz?), high CPS count here. dol-Carb dykelets, all roughly parallel to each other, 25-35° TCA. | | | | |
| | | | | 107.27 m to 108.04 m - mod fl dol qtz filled vugs 2 mm to 2 cm across, dol encrusted walls, qtz and/or fl centres. wk-mod bnded thin diffuse fl bnds. | | | | |
| | | | | 108.35 m to 108.44 m - two lt br (5YR 6/4) dol-Carb dykelets, 2% honey y (5YR 5/6) v.v.f.g. min (mnz?) in suc f.g. to v.f.g. dol gdmass, mod high CPS here, trace v.f.g. dk gy (N3) sph blebs. | | | 108.35 | 828 |
| | | | | 109.20 m to 109.29 m - 9 cm dol-Carb dykelet with ~25% unknown min, fluoresces w under UV light (ap?), 1% dk gy (N3) sub-met sph blebs, mod high CPS, sharp ctcs with host Carb. | 109.20 m to 109.29 m - dol-Carb dykelet 31° TCA | | 109.35 | 1190 |
| | | | | 110.17 m to 110.40 m - hydrothermal brc, clst sup, late stage dol-Carb dykelet clsts, ang, 0.6 to 2 cm across, encrusted with v.f.g. dol - f.g. qtz ± f.g. fl (working towards centre), 7 cm grain of v.f.g. pk (5R 6/6) min aggregate, fl : 6.5-7, kfs? | | | 109.25 | 890 |
| | | | | 111.50 m to 113.50 m - abnt bnds of w-cr w fluorescing min (UV light), ~20% overall. | 113.52 m - wk bndg, fl bnds, 38° TCA | | 112.18 | 1240 |
| | | | | unit avg CPS: 714 unit max CPS: 1240 unit min CPS: 300 | | | | |
| | | | | 117.65 m - bndg, fl bnds, appears shrd, 27° TCA | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 118.65 m to 119.62 m - zoned aph dol-Carb dykelet ~ parallel TCA. | | | 117.90 | 1140 |
| | | | | 118.73 m to 122.30 m - patchy to psd-brc text | | | | |
| | | | | 121.80 m to 122.26 m - fl, abnt pods with 80-100% fl, 15% fl overall. | | | 121.68 | 1170 |
| | | | | 122.30 m - ctc, grad ↓ fl content, ↓ gdmass to v.f.g., patchy → suc text. | | | | |
| 122.30 | 126.39 | dol-Carb | | <p><u>aph fl dol-Carb</u></p> <p>colour: med lt gy (N6) - gy-b (5PB 5/2)</p> <p>minerals: dol: 95%, v.f.g., anh; fl: 5%, v.f.g., anh; trace: py, sph?, ap?</p> <p>relatively mass compared with prev unit v.f.g. to f.g. suc eqgr dol gdmass with diss blebs of v.f.g. fl (1-3 mm avgs). unit coarsens to f.g. gdmass at 123.70 m with psd-brc (or healed ctsc?) text, grades to ctsc text at 124.97 m; f.g. to m.g. with sub-ang to sub-rnd dol-Carb clsts in v.f.g. med lt gy (N6) mtx. coarser clst size at top, decreasing downhole. ctsc portion appears healed (wkly shrd?). sharp change to mottled aph text at 126.00 m to end of unit.</p> <p>122.30 m to 123.70 m - suc, v.f.g. to f.g. @122.30 m - ctc,grad ↓ fl content, ↓ gdmass to v.f.g., patchy → suc text</p> <p>123.70 m to 124.94 m - mod fl ± dol filled vugs, rare fl-qtz filled vugs.</p> | | | 123.00 | 1230 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 126.39 | 150.33 | dol-Carb | | <p>125.81 m to 126 m - lim filled frac and walled vugs.</p> <p>124.97 m to 125.07 m - clst sup, poorly sorted brc, sub-rnd dol-Carb clsts 0.3-2 cm across. some clsts med dk gy (N4) with abnt v.f.g. mafics (sph?) sub-met lustre.</p> <p>126.00 m to 126.39 m - abnt dol filled vugs.</p> <p>unit CPS: avg: 1060 max: 1230 (123.50 to 124.75 - abnt patches of w fluorescing (UV light) min -</p> <p><u>f.g. fl dol-Carb</u></p> <p>colour: med lt gy (N6) and gy p (5P 4/2)</p> <p>minerals: dol: 95%,f.g., anh; fl: 5%, v.f.g. anh; trace: ap? v.v.f.g., fluoresces w under UV light, py, sph? (dk gy, v.f.g.)</p> <p>126.39 m to 144.06 m - patchy, psd-brc text</p> <p>text hetero unit, predominantly patchy/psd-brc text, fl itsl to dol in concentrated patches and as thin diffuse bnds/streaks. locl d cts and brcd sections. v. abnt late stage pale ol (10Y 6/2) - lt ol gy (5Y 6/1) v.f.g. dol-Carb dykes x-cut everything, occur every 6-30 cm, commonly zoned with thin f.g. fl and/or v.f.g. dk gy mafic bnds. fl filled vugs and frac common throughout, including approaching lower ctc. mod qtz and fl qtz vns approaching/ w ctc x-cut everything.</p> | <p>123.70 m to 124.97 m - psd-brc</p> <p>124.97 m to 126.00 m - ctsc</p> <p>126.00 m to 126.39 m - mottled</p> <p>126.39 m - ctc, ↑ fl content, grad</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|--|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 131.45 m to 131.96 m - poorly sorted clst sup brc, appears re-brcd and healed ang to sub-rnd dol-Carb clsts - two episodes of brc?, locld pods of fl rimmed clsts/fl abnt mtz late stage dol-Carb dykelets are distrupted/ brcd also, 4x4 cm pod of f.g. mod pk (10R 7/4) min, H 5.5, kfs? (at 132 m) | 126.39 m to 144.06 m - patchy, psd-brc text | | 131.90 | 1060 |
| | | | | 135.83 m to 136.83 m - med lt gy (N6)-med dk gy (N4) dol-Carb dyke x-cuts host Carb. sharp ctes; 3-4 cm zoned edges with thin dk gy v.f.g. mafic (sul?) bnds on either end inner portion v.f.g. with minor pod like aggregates of w rnd dol grains (xenocrysts?) - 7 pod 5x2 cm rnd, typically 3 mm to 5 mm avgs. bottom ctc truncated by dol-Carb dykelet with opposite orientation (dip direction), mod chl filled fracs and vugs. | | | 136.30 | 1070 |
| | | | | 136.50 m - 15 cm vn/dykelet with 10-15% pale pk (10R 7/4) min, H:5, fluoresces w under UV light (ap?). | | | | |
| | | | | 142.61 m to 142.85 m - mod abnt fl filled fracs, micro fracs and vugs. | | | 140.45 | 1190 |
| | | | | 142.85 m to 143.85 m - v. fracd interval, clsts up brc, appears re brcd, ang dol-Carb clsts, abnt fl filled micro fracs, 13 cm section with abnt qtz ± fl vnlet - lined clsts - filled fracs at 143 m. | 143.50 m to 144.00 m - fol, diffuse fl bnds, shrd? 62° | | | |
| | | | | 144.06 m to 146.10 m - clst sup brc, ang dol-Carb clsts, interval has re-brcd and healed appearance with locld psd-brc sections (annealed brc?). mod qtz ± dol ± fl vns and vnlet x-cut everything from 144.18 m to 145.18 m. | | 144.06 m to 146.10 m - brc, psd-brc text | 144.72 | 815 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------------------------------------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 150.33 | 167.64 | dol-Carb | | <p>146.10 m to 147.47 m - stockwork text, abnt x-cut fl and qtz-fl (\pm dol) vns, cut mottled-patchy host fl dol-Carb, few dol-Carb brc vns.</p> <p>147.47 m to 150.33 m - patchy text</p> <p>unit CPS: avg: 912 max: 1190 min: 600</p> <p><u>suc dol-Carb</u></p> <p>minerals: dol: 98%, v.f.g., anh, to f.g.; fl: 2%, v.f.g.; anh; trace: py</p> <p>med lt gy (N6) with med gy-med dk gy (N4-N5 sections) text homo unit comprising v.f.g.-f.g. suc dol gdmass with minor blebs of v.f.g. fl diss throughout. minor locld fl abnt patches. mod lt ol gy (5Y 6/1) v.f.g. dol-Carb dykelet x-cut everything, less common than prev unit. minor locld fl filled fracs, minor chl filled fracs.</p> <p>150.33 m to 167.64 m - suc, locly patchy.</p> <p>150.33 m - ctc, grad \downarrow fl content, colour darkens, homo text, \downarrow dol-Carb dykelets, fl filled fracs/vns absent.</p> <p>153.45 m to 153.64 m - fl abnt patch, psd-brc text, end dol-Carb 'clsts', fl abnt 'mtx'.</p> <p>153.81 m to 153.90 m - ctsc text, w rnd m.g. to c.g. dol clsts (xenocrysts), med b-gy (5B 5/1) v.f.g. mafic abnt dol mtx.</p> <p>154.67 m to 156.00 m - y to honey-y thin stringers and diffuse clusters, v.f.g. mnz?, stained dol? 1000 CPS here.</p> | | 146.10 m to 147.47 m - stockwork text | | |
| | | | | | | | 151.90 | 1165 |
| | | | | | | | 158.13 | 920 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>156.23 m - fl, patch, 10%.</p> <p>156.92 m to 157.42 m - fl, 8-10%, patches.</p> <p>160.80 m to 160.18 m - mod r-br v.f.g. min (lim?, hem?) coated frags.</p> <p>unit CPS: avg: 940 max: 1165 min: 700</p> <p>minor litho → 161.13 m to 164.50 m dol-Carb brc</p> <p>dol-Carb brc</p> <p>minerals: dol: 97%, f.g., anh; fl: 3%, v.f.g., anh; py: trace, v.f.g., anh</p> <p>lt gy (N7) and med gy (N5), dominantly clst-sup, poorly sorted sub-rnd to sub-ang dol-Carb clsts, some clsts are brcd, interval appears to be re brcd, mtx-sup brc from 161.54 m to 161.86 m; ang poorly sorted dol-Carb clsts (3 mm to 1 cm) in f.g. med lt gy (N6) dol-Carb mtx. grades to ctsc text at 163.05 m; w rnd dol clsts (xenocryst?), f.g. med lt gy dol mtx. grades to stockwork text at 163.50 m; abnt fl vnlet x-cut and disrupt fracd host dol-Carb.</p> <p>mod fl ± dol filled vugs throughout 161.36 m to 161.63 m - few dol-qtz ± filled vugs.</p> <p>161.86 m to 162.13 m - few mod r-br (10R 4/6) min filled frags and vugs (hem?, lim?).</p> <p>163.50 m to 164.50 m - stockwork text, mottled (annealed brc?)</p> | <p>161.13 m - ctsc, sharp, 30°, aph suc text → brc</p> <p>161.13 m to 163.05 m - brc text</p> <p>163.05 m to 163.50 m - ctsc text</p> <p>164.50 m - ctsc; grad, colour lightens</p> | <p>163.76</p> | <p>1015</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 167.54 | 194.80 | dol-Carb | | <p>minor litho → 164.50 m to 167.54 m</p> <p>f.g. dol-Carb</p> <p>minerals: dol: 98%, f.g., anh; fl: 2%, v.f.g., anh; trace: py, bsn? prs?</p> <p>y-gy (5Y 7/2) - pale ol (10Y 6/2), mottled text with clst sup brcd sections (mottled sections = annealed brc?) mod fl filled vugs, common chl filled vugs and fracs throughout. few dol-Carb dykelets, few dol-Carb brc vns.</p> <p><u>ctsc fl dol-Carb</u></p> <p>minerals: dol: 92%, v.f.g., anh; fl: 8%, v.f.g., anh to f.g.; py: trace, f.g., anh, to m.g., to suh; trace: bsn? prs?, hem, mnz?, chl.</p> <p>gy-b (5PB 5/2) and gy-p (5P 4/2) ctsc text aggregates of rnd m.g. lt gy (N7) dol-Carb clsts in f.g. med gy (N5) dol-Carb mtx. fl content variable throughout unit, ranging from 6-15%, occurs in concentrated patches itsl to dol-Carb clsts. locld aggregates of v.f.g. to v.v.f.g. pk-og (10R 6/6) - lt r (5R 6/6) min (bsn? prs?) , locld aggregates of cr-y to honey y v.f.g. to v.v.f.g. min (mnz?). sections of unit appear wkly to mod sheared and concealed. py occurs in locld clusters and along late fracs. med lt gy (N6) - lt ol-gy (5G 6/1), late stage dol-Carb dykelets x-cut host dol-Carb are common (0.5 cm to 8 cm wide, every 5 to 20 cm).</p> <p>dol-Carb dykelets commonly zoned with thin v.v.f.g. dk gy (N3) mafics (sul) and or v.v.f.g. fl bnds; f.g. py also common in dykelets. fl filled microfracs and blebs occur loclly, both cutting and cut by dol-Carb dykelets (multiple generations?, relationship unclear). locld sections of late chl filled vugs and fracs.</p> <p>167.54 m - ctc, broken core, nature of ctc indiscernable, including fl, dkr colour.</p> | | | 166.70 | 1075 |
| | | | | | | 167.54 m to 194.80 m - ctsc text | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>169.69 to 169.86 m - brc vns(?) - diffuse ctcs, cr-w to w m.g. rnd dol-Carb clsts (xenocrysts?) and pods of cl str aggregaties in lit gy (N7) dol-Carb mtx. mod chl filled vugs and fracs. same @170.42 to 170.56 m, but disrupted by dol-Carb dyklets, and has 2x2 cm pale pk (5R 8/2) pod (enclave?) with pale pk v.f.g. min, H:6.5, kfs?</p> | | | | |
| | | | | <p>176.40 m to 178.59 m - trace v.v.f.g. to v.f.g. pk-og (10R 6/6) min (bsn? prs?) in diss aggregates, also trace (up to 1% locly) v.v.f.g. to v.f.g. cc - y (10YR 8/6) to honey y min (mnz? in diss aggregates 1100 CPS in this interval, mod fl filled fracs.</p> | | | 168.10 | 1065 |
| | | | | <p>176.40 m to 178.59 m - trace bsn? prs? trace mnz?, see description comments.</p> | | | | |
| | | | | <p>178.59 m to 184.84 m - abnt fl patches, 15-40% range throughout interval, trace pk-og (10R 6/6) - mod r-br (10R 4/6) v.f.g. min (bsn? prs?) in locld concentrated diss aggregates, typically occur in sections of ↓ fl. (or just more visible there?)</p> | | | | |
| | | | | <p>178.59 m to 184.84 m - fl, 15-40%, trace bsn? prs? up to 1% locly, see description comments.</p> | | | 182.56 | 1200 |
| | | | | <p>186.31 m to 187.04 m - fl abnt patches, 15-25%, f.g. y (5Y 8/4) vitreous min (mnz?) diss in the patches, 1000-1265 CPS here.</p> | | | 186.50 | 1265 |
| | | | | <p>186.31 m to 187.04 m - fl, 15-25%, trace mnz?, see description comments.</p> | | | | |
| | | | | <p>187.04 m to 194.80 m - v.v.f.g. to v.f.g. pk-og (10R 6/6) min (bsn? prs?) in diss blebs (1-2 mm avgs) , trace overall, locly up to 2-3%, also y-honey y (10YR 6/6) min (mnz?) in locld zones of concentrated diss blebs of v.f.g. aggregates. high CPS here (1000-1200 CPS). both bsn? prs? and mnz? aggregates typically itsl to suc v.f.g. dol gdmass. fl patches have mod r (5R 3/4) - mod r-br (10R 4/6) portions in this interval.</p> | | | | |
| | | | | <p>187.04 m to 194.80 m - bsn? prs? (trace, up to 2-3% locly), mnz? (trace, up to 1% locly), see description comments.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 194.80 | 242.72 | dol-Carb | | <p>187.72 m to 188.89 m - mod sorted mtx-sup dol-Carb brc (dyke?, up ctc diffuse, lower ctc broken core) dominantly m.g. to c.g. sub-rnd to ang (euh rhombs) dol-Carb clsts (xenocrysts) in med lt gy (N6) v.f.g. to f.g. dol-Carb mtx; few sub-rnd clsts (enclaves?) 1-4 cm across comprising fl - mod pk min (5R 7/4, H: 6.5, kfs?, v.f.g.) with diffuse boundaries to dol-Carb brc, some have w dol-Carb clsts within. trace mod r-br (10R 4/6) hem filled vugs (1-3 mm avgs), common chl filled vugs and fracs. few dol-Carb dykelet x-cut host dol-Carb. similar brc vn from 190.05 m to 191.04 m.</p> <p>191.95 m to 193.32 m - mod shrd, v.f.g. to f.g., fl content decreases to 3-5%. fl patches absent, 2-3% diss fl blebs (1 mm avgs).</p> <p>194.88 m to 194.76 m - common fl vnlets/filled fracs.</p> <p>fl content dec to <5% approaching 1 w ctc.</p> <p>unit CPS: avg: 1041 max: 1265 min: 910</p> <p><u>f.g. dol-Carb</u></p> | <p>193.23 m - fol, 35° TCA, mod shrd</p> <p>194.80 m - ctc, grad, ↓ fl, ↓ CPS</p> | 192.40 | 1130 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>minerals: dol: 96%, f.g.,anh; fl: 4%, v.f.g., anh; py: trace, f.g., anh; bsn? prs?: trace, v.v.f.g., anh, to v.f.g., pk-og (10R 6/6) lt ol-gy (5Y 6/1) and gy-p (5P 4/2) hetero unit, fl content varies greatly from 2-8%, dominantly <5% with locld fl abnt sections/ zones. text dependant on fl content, dominantly eqgr f.g. mottled text with minor-mod rnd m.g. w dol grains. fl occurs in diffuse pods itsl to dol gdmass, patches of concentrated blebs, and as thin stringers/schlieren seperating dol-Carb clsts in v. locld ctsc sections that are wkly to mod shrd v.v.f.g to v.f.g. pk-og (10R 6/6)-mod r-br (10R 4/6) bsn? prs? occurs in locly abnt zones, itsl to dol gdmass, also as blebs of diss v.f.g aggregates and as rare frac infill. dol-Carb dykelets similar to described in previous unit are less common (ever 0.75 to 1 m). mod fl filled frac are cut host dol-Carb and dol-Carb dykelets and are cut by dol-Carb dykelets (relationship uncertain). minor-mod chl filled vugs in locld concentrations throughout (1-3 mm avgs). minor v.f.g. mafic (chl?-sul? ± py) gy-b (5PB 5/2) vnlet throughout. rare qtz vns (± fl) x-cut everything.</p> | | | | |
| | | | | <p>194.80 m to 202.10 m - bsn? prs?, 2-3%, diss blebs of v.f.g. aggregates. 194.80 m to 198.60 m - mottled, locly ctsc.</p> | | | 196.10 | 890 |
| | | | | <p>198.60 m to 203.66 m - ctsc text, wk to mod shrd v. lt gy m.g. dol-Carb clsts, med gy (N5) dol-Carb mtx. fl abnt patches, fl itsl to dol-Carb clsts.</p> | | | | |
| | | | | <p>198.60 m to 203.66 m - fl, 4-7%.</p> | | | | |
| | | | | <p>202.10 m to 203.35 m - 4-6% v.f.g. bsn? prs?, blebs of diss aggregate.</p> | <p>202.64 m - fol, shr shrd, 39° TCA</p> | <p>203.66 m to 206.30 m - mottled text</p> | 204.45 | 725 |
| | | | | <p>203.35 m to 210.75m - pk-og (10R 6/6) to lt r (5R 6/6) bsn? prs?, 1-3% overall, diffuse clusters of v.v.f.g. to f.g. itsl to dol gdmass, blebs of diss aggregates, rare frac infill.</p> | | | | |
| | | | | <p>203.35 m to 210.75 m - pk-og (10R 6/6) to lt r (5R 6/6) bsn? prs? see description comments.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 206.30 m to 212.74 m - fl, 4-6%. | | 206.30 m to 212.74 m - patchy text | | |
| | | | | 209.91 m to 210.36 m - mod r (5R 4/6) hem filled frags. | | | | |
| | | | | 210.75 m to 212.74 m - bsn? prs? similar to described at 203.35 m to 210.75 m, frac infill more common, 1% f.g., py (frac related), common chl filled vugs, few dol Qtz ± fl ± bsn? prs? vnlet, few mod r-br (10R 4/6) hem filled vugs (1-3 mm avgs, locld). | | | | |
| | | | | 210.75 m to 212.74 m - bsn? prs? 3-5%, see description comments. | | 212.74 m to 222.28 m - mottled text, locly ctsc, wkly-mod shrd | 210.95 | 695 |
| | | | | 214.55 m to 215.15 m - minor dol fl ± bsn? prs? filled vugs and vnlet, dol encrusted walls, fl ± bsn? prs? centres. | | | | |
| | | | | 217.20 m to 217.56 m - fl, 6-8%, patches. | | | 216.84 | 705 |
| | | | | 218.56 m to 218.66 m - fl abnt patch, 80-100%. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 219.51 m to 220.50 m - 1-3% bsn? prs?, diss blebs of v.v.f.g. to v.f.g. pk-og (10R 6/6)-lt r (5R 6/6) aggregates, rarely infilling fracs, and in diffuse clusters. | | | | |
| | | | | 219.51 m to 220.50 m - bsn? prs?, 1-3%, see description comments. | | | 220.85 | 675 |
| | | | | 222.92 m to 227.91 m - fl; 4-6%. 223.23 m - fol, 34° TCA, wk-mod shrd, thin fl stringers. 222.28 m to 227.91 m - ctsc text, wk-mod sheared. | | | | |
| | | | | 226.57 m to 227.87 m - abnt clusters/aggregates of v.v.f.g. pale cr-y (10YR 8/2)-y (10YR 8/6) min (mnz?) (3-4% overall), mod blebs of v.f.g. vitreous b-gr (5BG 3/2) acicular min (amph?) 2-3% overall. | 227.87 m - ctc, sharp, ~90° | | 228.50 | 725 |
| | | | | minor litho 227.87 m to 229.03 m | | | | |
| | | | | dol-Carb brc | | | | |
| | | | | lt gy ang dol-Carb clsts (0.2 to 1 cm across), gy-b (5PB 5/2) v.f.g. mafic abnt dol-Carb mtx, predominantly mtx-sup, clst-sup zones at centre of interval, 1% py, m.g., in locld clusters, 3-4% v.f.g. dk gy (N3) mag in mtx from ~ 228.60 m to 229.03 m | | | | |
| | | | | unit CPS: avg: 685 max: 725 | | | | |
| | | | | 229.03 m to 231.04 m abnt micro fracs throughout interval, mag blebs and vnlet from 229.03 m to 229.50 m, fl vnlet from 229.43 m to 230 m; 1-1.5 cm wide cr-w (10YR 8/2) gal sph qtz dol vn running approx parallel TCA from 229.03 m-231.18 m. domainantly gr-blk m.g.-c.g. dol, itsl qtz, trace locld gal and sph blebs. vn has qtz abnt (85% qtz, 15% dol) at upper 10 cm. sub-met dk gy (N3) v.f.g. min blebs (sph?) from 230-230.15 m. few similar vnlet (less gal and sph) towards bottom of interval, 30° and 40° TCA. | 229.03 m - ctc sharp, disrupted by abnt dol-Carb dykelet | 229.03 m to 231.70 m - mottled text | | |
| | | | | 231.70 m to 234.00 m - clst sup brc, ang dol-Carb clsts, dol-Carb mtx, has re-brcd appearance. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 242.72 | 353.57 | dol-Carb | | <p>230.17 m to 242.72 m - bsn? prs? 1-3%; diss blebs of mod r-br (10R 4/6) v.f.g. to v.v.f.g. aggregates.</p> <p>234.00 m to 242.72 m - ctsc text, mod shrd, fl abnt patches with m.g. lt gy (N6) dol-Carb clsts seperated by thin fl stringers. fl, 7-10%.</p> <p>235.30 m to 235.75 m - 2-3 cm wide zoned med gy (N5) and pale pk (5RP 8/2) v.f.g. dol-Carb dykelet x-cuts host dol-Carb. runs approx paralell TCA. 2-3% v.v.f.g. lt r min (bsn? prs?) in thin bnds along dykelet edges.</p> <p>unit CPS: avg: 721 max: 1140 min: 520</p> <p><u>dol-Carb brc</u></p> <p>minerals: dol: 95%, f.g., anh; ap?: 3%, v.f.g., anh, w to y-w to b-w fluoresing under UV light; py: 2%, v.f.g., anh, to f.g. po: trace, v.f.g., anh, up to 1% locky; trace: bsn? prs?, mag, sph, chl, bio, phl, gal, qtz</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>homo unit, med lt gy (N6) mtx-sup brc; poorly-mod sorted y-gy (5Y 8/1) to v. lt gy (N8) dol-Carb clsts, some with abnt ap?(fluoresces w to y-w under UV, v.f.g.) up tp 25-35%. v.f.g. to f.g., med lt gy (N6)-med gy (N5) suc dol-Carb mtx; mtx has v.v.f.g. to v.f.g. ap? (fluoresces w to y-w to b-w under UV) sections with 15-25% ap? at the intervals: 242.72 m to ~263 m, ~320 m to ~321.30 m, ~335 m to ~341 m, ~349.35 m to ~ EOH; apparent inverse relation between mtx ap? abundance and dol-Carb clst size and amount (↑ ap? content in ↓ clst size and amount). dol-Carb clsts dominantly poorly sorted, sub-rnd to sub-ang, avg 0.2-2 cm across (up to 6-8 cm across). typically 10-15% clsts, increasing to 20-25% from ~272 m to 286 m. v.f.g. py diss throughout mtx, also v.f.g. po in locld pods. locld ctsc sections. common translucent med gy (N5) qtz pods throughout (1-3% pods overall) with v.v.f.g. b-gy (5YR 4/1) vitreous stubby prismatic min (ap?, amph?, bio?) H:4-5 rims and/or diss within centre ± v.v.f.g. diss pk-og (10R 6/6) min (bsn? prs?) ± py ± po in centres. uncertain whether pods are filled vugs or broken/alterd clsts of another litho. also blebs/pods of pk-og (10R 6/6) v.v.f.g. min (bsn? prs?) diss (± dol) in qtz; again uncertain whether filled vugs or clsts. mod x-cut med lt gy (N6)-lt ol-gy (5Y 6/1) dol-Carb dykelets, ~0.75-2m frequency; some with v. thin bnds/stringers of dk gy (N3) v.v.f.g. to v.f.g. mafics (bio?-sul? (some dol-Carb dyklets with 20-35% v.f.g.-f.g. min (ap?) that fluorences w to y-w under UV light; v.f.g.-v.v.f.g. lt to mod r (5R 6/6 to 5R 4/6) min in blebs of diss aggregates or diss in thin stringers also common in dol-Carb dyklets)) ± py ± po ± mag. v. common b-gy (5B 5/1) thin v.v.f.g. to v.f.g. mafic vnlet and filled vugs (chl? and/or bio? and/or sul?); few rare x-cut qtz vns, mod common py and/pr po vns, locld mag-sul?-py ± po vns and pods throughout.</p> <p>some dol-Carb dykelets with 20-35% v.f.g. to f.g. min (ap?) th at fluoresces w to y-w under UV light; v.f.g. to v.v.f.g. lt to mod r (5R 6/6 to 5R 4/6) min in blebs of diss aggregates or diss in thin stringers also common in dol-Carb dykelets.</p> | <p>242.72 m - ctc, grad, text change to ctsc/brc, ↓ fl content</p> <p>242.72 m - ctc; ↓ fl content, text change to brc, dol-Carb dykelet disrupt ctc, nature indeterminant appears grad (ctsc → brcd)</p> | 243.45 | 650 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 244.80 m to 245.05 m - bsn? prs? mod r-br (10R 4/6) diss blebs, 1%. | | 244.50 m to 320.84 m - mtx- sup brc | | |
| | | | | 244.94 m to 253.13 m - clst size becomes better sorted, 1-5 mm avgs, some 5-1 cm, py abnt sections, 2-3% overall, 5-7% locly, f.g., itsl to dol-Carb clsts and dol-carb mtx; few bsn? prs? dol qtz filled vugs/pods from 250.82 m to 251.09 m. | | | 249.60 | 500 |
| | | | | 250.16 m to 253.13 m - py, 2-3%. | | | | |
| | | | | 253.66 m - x-cut mod r (5R 4/6) min (bsn? prs?) qtz vn. | | | | |
| | | | | 256.37 m - 0.5 cm wide dk gy (N3) v.f.g. py po sul vn x-cuts everything. | | | 257.64 | 490 |
| | | | | 257.46 m to 257.72 m - 2.5 cm zoned dol-Carb dykelet x-cuts everything; abnt thin (<1 mm) stringers of v.f.g. to v.v.f.g. gal po py (v.f.g.-m.g.) sph (most common at dykelet edges); trace v.v.f.g. pk-og (10R 6/6) min - bsn? prs? | | | | |
| | | | | 265.18 m - 4 cm wide x-cut dol-Carb dykelet, v.v.f.g. gal (trace) - v.v.f.g. sph (trace) - v.f.g. to f.g. py (trace) v.v.f.g. to v.f.g. po (1-3%) and trace locld mod r (5R 4/6) min (bsn? prs?). | | | | |
| | | | | 265.83 m to 266.30 m - mod r (5R 4/6) bsn? prs?; v.v.f.g. aggregates in diss blebs and infilling fracs, trace -1%. | | | | |
| | | | | 266.80 m to 267.35 m - few x-cut dk gy (N3) met v.f.g. to f.g. dol py po sul (sph?) mag? vns; v. magnetic; due to v.f.g. po? | | | 267.60 | 440 |
| | | | | 268.46 m to 270.00 m - few py po mag vns and vnlet, few dol-Carb dykelet with zoned py po mag rims. | | | 268.00 | 525 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>270.62 m to 272.30 m - mod abnt py po mag vns and vnlet, py po sul vns and vnlet x-cut host dol-Carb. two bnded/zoned dol-Carb dykelet(? , not sharp ctcs, may just be v.v.f.g. mafic sul mag stringers), run approx parallel TCA at 270.72 m to 271.37 m and 271.80 m to 272.38 m; dykelet? consist of alternating y-gy (5Y 8/1) dol bnds and thin dk gy (N3) met dol py po mag bnds; bnded dykelet/dol-mag stringers have 35-45% mag overall; latter dykelet/dol mag stringers truncate earlier py po sul vn.</p> | | | | |
| | | | | <p>273.64 m to 273.72 m - 2 cm wide x-cut v.f.g. to v.v.f.g. lt gy (N3)-pk-gy (5YR 8/1) dol-Carb dykelet, trace-1% v.v.f.g. pk-og (10R 6/6) min (bsn? prs?) itsl to dol, minor chl filled vugs (1-3 mm avgs), similar 1 cm wide dol-Carb dykelet at 277.06 m.</p> | | | 275.46 | 505 |
| | | | | <p>278.90 m - 2-3 cm wide dol-Carb dykelet with thin stringers/bnds of py po mag, similar to described at 268.46 m to 270.00 m.</p> | | | | |
| | | | | <p>279.21 m to 279.85 m - clsts appear wkly unbrcd, wk shearing? lineation produced by clsts 44° TCA.</p> | | | | |
| | | | | <p>280.74 m to 280.81 m - bnded dol py po mag vn; v.f.g. dk gy met mag, v.f.g. bronze (5YR 5/6) po, f.g. to m.g. anh-suh py.</p> | | | | |
| | | | | <p>281.79 m to 281.95 m - gr-blk (5GY 2/1) aph x-cut py phl dol vn. sharp ctcs, 40% v.v.f.g. suh mod br (5YR 3/4) phl itsl to suc w v.f.g. dol gdmass. minor ovoid shaped blebs (<1mm avgs) with phl rims and v.v.f.g. b-gy (5B 5/1) sub-met min (sph?, sul?) cores 5% f.g. w dol xtls smattered throughout produce speckled appearance, 8% v.v.f.g. to m.g. anh to suh py diss throughout. 20% f.g.-m.g. py mineralization at up etc.</p> | 281.79 m; 281.95 m; up and lower py phl dol vn ctcs, 44° TCA | | 281.30 | 500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 282.00 m to 283.66 m - minor ang gy-pk (5R 8/2) clsts with dk gy (N3) rxn rims. clsts consist of v.f.g. w-gy pk (5R 8/2) dol with trace v.v.f.g. pk-og (10R 6/6). bsn? prs? diss in trace amounts and rare silver v.f.g. sul blebs. reaction rims consist of mod br (5YR 4/4) vitreous stubby v.f.g. ap prisms, pale gr (10G 6/2) v.v.f.g. min (another type of ap?) and mod diss bsn? prs?. all mins appear to be replacement products, original litho of clsts unknown. mod dol py po mag vns and vnlet throughout. | | | | |
| | | | | 286.75 m to 288.82 m - 3-7 cm v.f.g. to f.g. pk-gy (5YR 8/1) dol-Carb dykelets with 1-4% v.v.f.g. pk-og (10R 6/6) min (bsn? prs?) diss throughout and trace v.v.f.g. dk gy mafics (sul). | | | 286.75 | 500 |
| | | | | 290.55 m to 290.63 m - few <1 mm wide py po vnlet, few 2-3 mm wide chp vns. | | | | |
| | | | | 292.29 m to 292.41 m - 11 cm y-gy (5Y 7/2) dol-Carb clst/vn; m.g. semi-elongate ovoid gy-y (5Y 8/4) dol grains, lt gy (N7) v.v.f.g. to v.f.g. qtz-ap? (fluoresces w under UV light) gdmass. | | | 292.46 | 500 |
| | | | | 300.07 m to 300.45 m - few qtz ap? dol clsts/patches similar to described at 292.29 m to 292.41 m. min assumed to be ap fluoresces b-w under UV light. 1 patch cut by f.g. po-mag vn (1 cm wide), displaced by <1 mm wide v.v.f.g. bsn? prs? dol vnlet filled frac. | | | 300.80 | 525 |
| | | | | 303.27 m to 303.40 m - x-cut py po sph qtz vns and few vnlet, anh v.f.g. qtz, v.v.f.g. dk gy (N3) sph, m.g. anh to euh py (5%) f.g. to m.g. anh po (5%). | | | 303.15 | 530 |
| | | | | 304.00 m - 2-3 cm wide zone with diss m.g. mag (8%) and v.f.g. po aggregates (6%). | | | | |
| | | | | 305.17 m to 305.53 m - two x-cut y-gy (5Y 8/1) and mod y-br (10R 5/4) f.g. bio (and/or phl)-ap? (fluoresces w under UV light) - dol vns (dol-Carb dykelet), 3 and 9 cm wide. 1 cm wide y-gy (5Y 7/2) and og-pk (5YR 8/4) vn, bnded with thin v.v.f.g. og-pk (5YR 8/4) bsn? prs? bnds. | | | | |
| | | | | 307.27 m to 308.20 m - bsn? prs?, trace-2%, v.v.f.g., mod r (5R 1/6), diss aggregates. | | | 311.15 | 675 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 315.23 m - 1.5 cm x 3 cm qtz pod, 3-5% v.v.f.g. pk-og (10R 6/6) diss min (bsn? prs?), trace pris mafic vitreous b-gy (5B 5/1) min (amph?). | | | 314.84 | 615 |
| | | | | 315.38 m to 316.15 m - few zoned y-gy (5Y 8/1) and med gy (N5) x-cut dol-Carb dykelet; alternating thin y-gy (5Y 8/1) dol bnds and sph po mag bnds; 2-3% v.v.f.g. pk-og (10R 6/6) min (bsn? prs?) diss in dol bnds; dykelets run approx parallel TCA; one 60 cm long, 2-3 cm wide. | | | | |
| | | | | 320.15 m - 2.5x2.0 cm py po mag pod. | | | 320.55 | 600 |
| | | | | 320.84 m to 321.90 m - ctsc text, <10% m.g.-c.g, sub-rnd to sub-ang dol-Carb clsts, v.f.g. suc dol mtx. | | | | |
| | | | | 321.31 m to 324.00 m - abnt lt gy (N7)-med gy (N5) qtz pods with v.v.f.g. dk gy diss mafics (bio and/or phl ± sul?) mod r-br v.v.f.g. diss min (bsn? prs?) ± v.f.g. py ± v.f.g. po. few 2-3 cm wide x-cut gy (5Y 8/1) v.v.f.g. dol-Carb dykelet with thin dk gy (N3) py po mag bnds and bound-arles (reaction rims?), v.v.f.g. pk-og (10R 6/6) min (bsn? prs?) in thin diffuse discontinuous bnds/streaks throughout dykelets. dykelets run approx parallel TCA. | | | | |
| | | | | 321.90 m to 325.26 m - mtx-sup brc same as described at start of unit. | | | | |
| | | | | 325.26 m to 327.18 m - ctsc text, same as at 320.84 m to 321.90 m | | | | |
| | | | | 327.50 m to 329.13 m - few py bio dol (± qtz) filled vugs. | | | 326.35 | 515 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 329.13 m to 329.82 m - zoned 2-3 cm wide y-gy (5Y 8/1) and pk-gy (5YR 8/1) dol-Carb dykelet running approx parallel TCA, with thin (<1 mm) dk gy (N3) v.f.g. to v.v.f.g. mafic (sul?, bio?) stringers, v. thin diffuse pk-gy (5YR 8/1) v.v.f.g. to v.f.g. bsn? prs? bnds/stringers throughout mod f.g. py-v.f.g. po (+ v.f.g. mag?) med lt gy pods and clusters throughout interval. | | 327.18 m to 335.40 m - mtx-sup brc, same as described at start of unit | | |
| | | | | 328.63 m to 332.49 m - abnt v.v.f.g. dk gy (N3) mafic (sul?, bio?) filled microfracs, 15-25% clsts. | | | | |
| | | | | 335.45 m to 335.53 m - vn similar to described at 292.29 to 292.41 m. sharp ctc's. | | | 335.50 | 650 |
| | | | | 335.40 m to 340.10 m - ctsc text, v.f.g. suc dol mtx, 5-10% clsts, loclly 15-20% clsts, mod shrd. | | | | |
| | | | | 339.03 m to 339.23 m - few po dol (± sph) encursted vugs. | | 340.10 m - 347.73 m - mod sorted brc text | 336.32 | 595 |
| | | | | 349.11 m - 2-3 mm qtz vn with trace pk-og (10R 6/6) v.v.f.g. min aggregates (bsn? prs?) | | 347.73 m - 353.57 m - poorly sorted brc | 346.60 | 460 |
| | | | | 351.74 m - 1-2 cm wide v.f.g. po sul vn. | | | 350.75 | 470 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 352.52 m to 352.57 m - v.f.g. to v.v.f.g po-m.g. mag dol vn, sharp ctc's, mag diss throughout, vn cut by sph-po-dol qtz vn. unit CPS: avg: 483 max: 675 min: 380 EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536236.65 | Drill Company: Cartwright Drilling Ltd. | Date Started: Apr 18, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312190.46 | Rig Type: CDI 500 | Date Completed: Apr 22, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 384.05 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: C. Knight | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|---|-------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 6.81 | OVB | | <p><u>Ovb</u> dol and Ovb and Qtzite country rock and/or bldrs; Qtzite grains, itsl dol cement; dol bldrs gr-blk (re-xtld to dol marble?); one bldr has no abnt clsts (Glim?); with x-cut cc vns.</p> | | | | |
| 6.81 | 60.09 | dol-Carb | | <p><u>f.g. dol-Carb</u> minerals: dol: 95%, f.g., anh; fl: 5%, v.f.g., anh, to f.g., content increase to 7-10% locly; py: trace, v.f.g., anh, to f.g.; bsn? prs?: trace, v.f.g., anh, mod r-og, to v.v.f.g., diss blebs of v.f.g. aggregates; trace: chl?, qtz, mnz, sul, bio and/or phl.</p> <p>pale ol (10Y 6/2) and gy-p (5P 4/2), psd-brc text, lt gy (N7) to y-gy (5Y 7/2) dol-Carb 'clst' aggregates in v.f.g. to f.g. eqgr lt ol-gy gdmass ('mtx'); trace to 3% fl in gdmass, dominantly occurs as late diss blebs, pods and thin stringers separating dol-Carb 'clst' aggregates; fl content increases downhole + approaching lower ctc. locld intervals of crushed and compacted f.g. dol-Carb clsts and v.f.g. dol-Carb mtx (ctsc? - commonly brittle appearance, rarely wkly shrd); occur throughout interval, increasing in frequency and length downhole and approaching lower ctc. *** (if these are ctsc text intervals, the overall psd-brc text may be produced by annealing of an initial ctsc/brc text). *** x-cut v.f.g. to f.g. pale ol (10Y 6/2) dol-Carb dyklet are abnt, commonly disrupting host dol-Carb's text. dyklets are commonly zoned with thin v.f.g. fl and/or v.f.g. mafic bnds/stringers - either perv throughout or concentrated @ edges. v.f.g. to f.g. py is also common in dyklets. minor hy-term brc vns comprising v.f.g. fl - v.f.g. dol ± v.f.g. qtz ± v.f.g. bsn?-prs? rimmed ang dol clsts. minor fl dol qtz vns + vnlets x-cut everything. locld brittle fracs sections overprint all other features. minor - mod locld chl? and/or bio? filled vug sections, more common @ top. {dol-Carb dyklets also commonly x-cut eachother, suggesting multiple generations. Same dyklets brcd, with m.g. rnd w-lt gy dol-Carb clsts (xenocrysts), less common than zoned variety}. minor late fl filled fracs; timing relative to dol-Carb dyklet unclear.</p> | @6.81 m - ctc country rock to dol-Carb, broken core, nature of ctc Ukn; presumably sharp. | 6.81 m to 39.57 m - psd - brc text. | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | ~11.16 m to 13.45 m - colour dkns to lt ol-gy (5Y 6/1) to ol-gy (5Y 4/1); text changes to f.g. eqgr anh dol xtls with v.f.g. chloritized bio - v.f.g. fl - v.f.g. anh dol gdmass, f.g. anh dol xtls packed together, some sutured boundaries - re-xtld? (maybe re-xtld brc/ctsc text?) | | | 10.29 | 1155 |
| | | | | 14.38 m to 16.62 m - few v.f.g. fl - v.f.g. dol - v.f.g. qtz ± trace v.f.g. bsn? prs? hy-therm brc vns, ang dol-Carb clsts rimmed with above assemblage; minor pockets/vugs with dol-fl infills, x-cut dol-Carb dyklet with v.f.g. diss mod pk-og bsn? prs?; mod lim? coated fracs. | | | 15.88 | 1350 |
| | | | | 16.67 m to 18.47 m - crushed + compacted f.g. clsts, re-xtld appearance (ctsc?), over-printed by brittle frac; abnt x-cut dol-Carb dyklet, some brcd + dol-Carb clsts within; dyklets cut by fl filled fracs. | | | | |
| | | | | 20.25 m to 31.65 m - v.v.f.g. honey y (10YR 6/6) - dk y br (10YR 4/2) mineralization, mnz?, H = 4-5?, very high CPS throughout interval; apparent concomitant increase between mineralization and increase itsl qtz content in gdmass described @21.71 m to 23.12 m. | | | | |
| | | | | 20.25 m to 31.65 m - mnz?, trace, see description comments. | | | | |
| | | | | @21.65 m - hy-therm vn, v.f.g. dol rims, v.f.g. qtz ± fl ± mod r-og v.f.g. min (bsn? prs?) centre; unkn mod r-og min itsl to qtz, apparent H = 6-7, may be Kfs, more likely bsn? prs?, appears hard because itsl to qtz. | | | | |
| | | | | 21.71 m to 23.12 m - crushed, compacted and re-xtld? f.g. dol-Carb clsts/xtls (ctsc?), v.f.g. dol gdmass (clst-sup) with trace itsl v.f.g. to v.v.f.g. bsn? prs?-trace itsl v.v.f.g. to v.f.g. fl - trace v.f.g. qtz (3-6%), few x-cut fl dol qtz vnlet, similar occurrences @: 25.52 m to 25.88 m, 27.13 m to 28.04 m (locl patches disrupted by abnt dol-Carb dyklet) 29.08 m to 29.17 m, 30.81 m to 31.65 m (wkly shrd); 32.06 m to 32.93 m. | | | 21.55 | 1430 |
| | | | | text maybe some sort of dol-Carb dyklets, no discernable ctc, however. | | | | |
| | | | | 26.69 m to 26.91 m - dol-Carb brc dyklet, sub-rnd to ang dol-Carb clsts; cuts zoned fl dol-Cab dyklet. | | | 27.73 | 1730 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-------------------------------------|---------|---------------|-------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 28.09 m to 28.35 m - dol-Carb brc dyklet, rnd to sub-rnd lt ol-gy (5Y 6/1) dol-Carb clsts, few pale pk (5RP 8/2) coloured, H = <4, powder fizzes - colour due to v.v.f.g. prs?; clsts commenly compacted with sutured boundries; v.f.g. eqgr suc dol mtx with loclld med gy (N5) - br-gy (5YR 4/1) pods comprising v.f.g. fl-v.f.g. qtz-v.f.g. dol-v.f.g. vitreous mod y-br bio? and/or phi?, XRF values: 2056 ppm Y, 469.3 ppm Th, 2262 ppm ceruine. scint values: 1195 CPS. | | | 28.20 | 1195 |
| | | | | 29.23 m to 30.42 m - wkly shrd. | @29.49 m - fol, wkly shrd, 42° TCA. | | | |
| | | | | 30.22 to 30.56 m - brc vns, 2 mm to 1 cm ang to sub-rnd dol-Carb clsts, v.f.g. mod y-br (10YR 5/4) vitreous min (mnz?) - v.f.g. itsl qtz (2-5%) - v.f.g. dol mtx. | | | 31.33 | 1740 |
| | | | | 36.15 m to 37.40 m - colour dkns, med dk gy-lt br-gy, f.g. y-gy (5Y 8/1) dol xtls in v.f.g. lt br-gy (5YR 6/1) dol gdmass with itsl v.f.g. qtz (1-4%) ± itsl v.f.g. fl ± v.f.g. bsn? prs? ± v.v.f.g. dk y (10YR 6/6)-og min (mnz?), abrupt ctc, both broken core so nature of ctc indiscernable. high CPS here, XRF values - 15-30% Fe. values may be a late stage dol-Carb dyke? abnt dol-Carb dyklet cut host Carb (dyke?) and each other. | | | 37.10 | 14.15 |
| | | | | 37.84 m to 39.57 m - brittle frac/wkly brcd; mtx and patches consisting of similar composition and text described @36.54 m to 37.40 m. few x-cut qtz and fl dol qtz-vns and vnlet. | | | | |
| | | | | 39.57 m to 50.24 m - wk to mod shr bndg; thin fl abnt stringers and bnds; fl content increase locky to 5-7%, loclld portions appear wkly ctsc or crushed, compacted and healed - resulting in dol-Carb clst aggregates separated by thin fl stringers again @53.64 to 55.12 m. | | | | |
| | | | | 39.90 m to 40.63 m - few lim coated fracs. | @41.17 m - shear? bndg; 64° TCA. | | 41.50 | 1250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|--|--|---------------|------|--|
| | | | | | | | DEPTH (m) | CPS | |
| 60.09 | 67.10 | dol-Carb | | 42.75 m to 43.05 m - hy-therm vns; v.f.g. dol rims, v.f.g. fl - v.f.g. qtz cores; same surrounding ang dol-Carb clsts; 1 large vn with v.f.g. dol - v.f.g. firm, v.f.g. qtz - v.f.g. chl - m.g. - c.g. dol core with trace v.f.g. mod r-og min (bsn? prs?). | @43.36 m - shear(?) bndg; 65° TCA. | | | | |
| | | | | 44.85 m to 45.00 m - hy-therm v.f.g. fl - v.f.g. to f.g. dol vns, elongate - wormy dol cavities with alternating fl dol concentric rims. | | 50.24 m to 53.64 m - psd - brc text. | 50.76 | 1310 | |
| | | | | 45.58 m to 46.80 m - few hy-therm v.f.g. fl - v.f.g. dol - v.f.g. qtz vns; dol encrusted rims, qtz + fl centres; rare chl filled pockets within same vns. also 1 cm vn with >95% qtz; simular @52.76 m to 52.90 m. | @47.73 m - shear(?) bndg; 66° TCA. | 53.64 m to 55.12 m - mod shear(?) bndg. | 53.53 | 1180 | |
| | | | | 49.95 to 50.24 m - hy-therm brc v.f.g. fl - v.f.g. dol - v.f.g. qtz rimmed sub-ang dol-Carb clsts; dol encrusted edges, qtz + fl centres, some dol-Carb clsts brcd with small clsts - re-brcn? | @54.63 m - shear? bndg, mod, 54° TCA. | 55.12 m to 60.09 m - patchy - psd - brc. | 59.85 | 1125 | |
| | | | | unit max - 1740 CPS. unit min - 550 CPS. unit avg - 1210 CPS. | | | | | |
| | | | | <u>wkly-mod bnded f.g. fl dol-Carb</u> | | | | | |
| | | | | minerals: dol: 93%, anh, f.g., to v.f.g.; fl: 7%, anh, v.f.g., up to 8%-10% locly; py: trace, anh, v.f.g., to f.g.; trace: qtz, bsn? prs?, sul, bio. It ol-gy (5Y 6/1) and gy-p (5P 4/2), f.g., wk to mod bndg (shr bndg?) - may be x-cut dol-Carb dyklets with diffuse boundaries not able to discern. foliation runs approx parallel TCA for most of interval. 6-8% fl, occurs as diss blebs and thin stringers defining foliation/bndg discussed above. few x-cut dol-Carb dyklet, some zoned with v.f.g. fl and/or v.f.g. mafic (v.f.g. bio ± sul?) stringers. few x-cut dol-Carb brc dykes, 3-5 mm rnd w dol-Carb clsts, some in aggregates, some with v.v.f.g. dis fl, lt ol-gy v.f.g. dol-Carb mtx; few dol-Carb clsts have re-xtld appearance. brc dykes are clst to mtx-sup. rare qtz ± dol filled vugs. | @60.09 m - ctc, increase fl content, spike text change from patchy/psd - brc to wk to mod bndg (shr bndg?) colour dkns ctc gradover 1-1.5 m. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|--|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 67.10 | 96.04 | dol-Carb | | <p>60.10 to 60.32 m, 60.51 m to 61.10 m, 67.00 to 67.10 m - dol-Carb brc dykes described in overall description.</p> <p>65.56 m to 65.71 m - mtx-sup mod sorted brc (dol-Carb brc dyklet? - diffuse/no ctc; nature indiscernable) sub-ang to sub-rnd dol-Carb clsts; 3 mm-1 cm across, v.f.g. mafic abnt dol-Carb mtx.</p> <p><u>f.g. fl dol-Carb</u></p> <p>dol: 95%, f.g., anh; fl: 5%, v.f.g., anh, 7-10% locly; py: trace, f.g., anh, diss; bsn? prs?: v.f.g., mod r - og, anh, locld; trace: qtz, amph (arf?), syl, sph?; bio: trace -1%, v.f.g. to f.g., suh, frac rel.</p> <p>lt ol-gy (5Y 6/1) and gy-p (5P 4/2), f.g., hetero text; patchy/psd -brc text to 81.90 m, grading to wkly - mod bnded text to ~97.50 m. wk to mod bnded sections appears shrd with dol-Carb clsts aggregates separated by fl stringers (wkly ctsc?) fl relatively low abundance in gdmass, dominatly occurs as late diss blebs, patches; bnds of thin stringers. trace py diss throughout. v.f.g. to f.g. lt ol-gy (5Y 6/1) dol-Carb dyklet x-cut host dol-Carb, some zoned with v.v. thin stringers/bnds of v.f.g. fl and/or v.f.g. mafics. dyklet less abnt than 6.81 to 60.09 m dol-Carb, ~every 0.4-0.6 m. minor x-cut qtz ± fl ± bsn? prs? vns and filled vugs. trace v.f.g. mod r-og min (bsn? prs?) occurs in locld diss blebs.</p> <p>@ 69.58 m - 1.5-2 cm dol-Carb dyklet cut and brcd by f.g. to m.g. anh to euh py - v.f.g. sul - v.f.g. dol vn.</p> <p>70.87 m to 72.02 m - relatively mass, abnt fl blebs (<2 mm) diss throughout.</p> | <p>@62.84 m - wk mod bndg, (shr bndg?); ~ parallel TCA.</p> <p>@67.10 m - ctc; decfl content, colour lightens text change from wkly - mod bnded to patchy.</p> | <p>60.09 m to 67.10 m - wk to mod bnded (shr bndg?).</p> <p>67.10 m to 70.87 m - patchy/psd -brc brc text.</p> | 71.48 | 1075 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|---|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>72.07 m to 81.90 m - patchy text, locl d psd-brc sections.</p> <p>72.37 m to 72.70 m - x-cut v.f.g. dol - f.g. to m.g. mod r-og min (bsn? prs?, apparently bladed habit) - f.g. to m.g. fl - v.f.g. to f.g. qtz vn; f.g. to m.g. anh to suh py concentrated @ vn edges and filling small vugs.</p> <p>74.55 m to 75.90 m - abnt x-cut dol-Carb dyklet, some brcd, w rnd dol-Carb clsts within; dyklets overprinted by brittle frac, few chl? ± py ± v.f.g. sul filled micro-fracs and vugs.</p> <p>75.53 m to 75.68 m - v.v.f.g. to v.f.g. mod r-og min (bsn? prs?) in small diss blebs of aggregates, also small blebs of v.f.g. qtz with v.v.f.g. itsl bsn? prs? ± v.f.g. itsl fl. trace to 1% bsn? prs?</p> <p>75.75 m to 76.54 m - relatively mass text, 4-6% diss fl blebs (<2 mm).</p> <p>78.79 m to 80.05 m - 6 cm wide patch (vn? - diffuse ctc) consisting of v.v.f.g. to v.f.g. mod r-og min (bsn? prs?, 1%) - f.g. to m.g. anh to euh py (2%) - v.f.g. to f.g. anh qtz (4%) - v.f.g. to f.g. med b-gy amph (6%) within suc v.f.g. dol gdmass; 1 cm wide x-cut qtz vn; mod vnlets consisting of trace v.v.f.g. to v.f.g. mod r-og min (bsn? prs?) - trace v.f.g. to f.g. py - trace v.f.g. fl (v. locl d) - trace med gy sub-met sul (sph?) + 3-4% anh v.f.g. to f.g. qtz - v.f.g. itsl dol; one vnlet with 2-3% v.f.g. cr (10Y 8/2) to tan (10YR 7/4) resinous sph? and v.f.g. to v.v.f.g. honey y (10YR 6/6) vitreous min (mnz?) plus min assemblage described for other vnlet.</p> <p>82.06 m to 82.53 m - trace to 1% v.v.f.g. y-br (10YR 4/2) min, H = 4.5, in small diss blebs ans also itsl in small qtz blebs. trace v.v.f.g. mod pk-og min (bsn? prs?). (mnz?)</p> | | | 77.60 | 1275 |
| | | | | | @83.28 m - str bndg, shr bndg 42° TCA. | 81.90 m to 96.04 m - mod to str bnded, shr bndg?, locl d wkly ctsc? sections. | 81.86 | 1360 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 96.04 | 127.97 | dol-Carb | | 81.90 m to 96.04 m - mod to str bnded, shr bndg?, locld wkly ctsc? sections. | | | | |
| | | | | 85.95 m to 86.60 m - trace v.f.g. to v.v.f.g. mod r-og itsl min (bsn? prs?) in diss v.f.g. to f.g. qtz blebs, trace to 1% v.v.f.g. honey y (10YR 6/6) to y-br (10YR 4/2) min (mnz?) in diss blebs and itsl in v.f.g. to f.g. qtz blebs. occurrence of bsn? prs?; mnz? and qtz (1-2% overall) in f.g. dol abnt, fl poor portions of bnded text.trace to 1% mnz?; trace bsn? prs?. | | | | |
| | | | | 86.94 m to 87.91 m - x-cut 0.4 cm cc dol-Carb dyklet/vn, few x-cut qtz ± fl vns. | | | | |
| | | | | 91.48 m to 92.00 m - 0.4 cm + 1 cm wide qtz vn with 10-15% v.f.g. mod r-og min (bsn? prs?); 1.5-2 cm wide dol-Carb dyklet, zoned with fl abnt v.v. thin stringers/bnds, diffuse pods of v.v.f.g. mod pk-og min (bsn? prs?). | @96.04 m - ctc, grad, text change from bnded to brcd, initial drop in CPS (<1000 CPS), locld peaks thereafter. | 93.20 | 995 | |
| | | | | unit max: 1360 CPS. unit min: 740 CPS. unit avg: 1024 CPS. | | | | |
| | | | | <u>brcd f.g. fl dol-Carb</u> minerals: dol: 95%, f.g., anh; fl: 5%, v.f.g., anh, locly up to 8%; py: trace, v.f.g. to f.g., anh, diss; bsn? prs?: trace, v.f.g. to f.g., anh, mod r-og, concentrated in locld zones; trace: qtz, amph (art), ilm?, sph, bio, Kfs?, mag. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>lt gy (N7) and gy-p (5P 4/2), f.g., text hetero unit, dominantly consisting of a poorly sorted clst-sup brc; clst size, angularity and degree of sorting varies throughout interval. most commonly ang to sub-ang 0.4 cm-2 cm wide dol-Carb clsts, less commonly sub-rnd to rnd clsts. where as some sections clearly consist of brcd and compacted clsts, in other sections clst boundaries are diffuse and appear to have undergone minor to mod healing. mottled and psd-brc sections are also common (might be well healed brcd sections?).</p> <p>fl content varies from 4-8%, minor amts itsl in dol gdmass, mostly as late blebs, pods, patches and thin stringers. late stage v.f.g. to f.g. pale ol (10Y 6/2) x-cut dol-Carb dyklet are v. abnt, ~ every 0.20-0.40 m. many have fl abnt rims and/or thin fl stringers with v.v.f.g. mod r-og bsn? prs? diss within dyklets are also common. minor x-cut qtz ± bsn? prs? ± fl ± dol vns and filled vugs. minor locld fl filled fracx x-cut dol-Carb dyklet. dyklets are @ random orientations and x-cut each other, suggesting multiple generations.</p> <p>100.15 m to 100.25 m - zoned dol-Carb dyklet; fl abnt zones (5-7% v.f.g. fl); trace to 1% diss v.v.f.g. mod r-og min (bsn? prs?); trace diss f.g. py; trace v.f.g. to f.g. qtz.</p> <p>102.47 m to 102.58 m - few qtz pods with trace v.v.f.g. mod r-og min (bsn? prs?), qtz also diss with fl ± v.f.g. gy-p-r (5RP 4/2) min (altd fl?) blebs.</p> <p>102.90 m to 103.00 m - 5 cm wide and 0.5 cm wide med gy (N3) wkly magnetic v.v.f.g. min (ilm?, mag?) abnt vns.</p> <p>106.15 m to 106.27 m - mtx-sup dol-Carb brc dyke, f.g. lt ol-gy (5Y 6/1) dol-Carb mtx, 2-4 mm rnd w dol-Carb clsts, 2 cm x 1 cm ang dk gy (N3) Glim? (55-65% v.f.g. bio) clst; few 0.4-0.8 cm v.f.g. fl (trace) - v.f.g. mod r-og (1R 6/6) bsn? prs? (trace) - trace v.f.g. med b-gy amph - v.f.g. qtz (>80%) filled vugs; 2.5 cm x 1.5 cm pod (vug?, rnded clst?) consisting of 1% v.v.f.g. mod r-og (10R 6/6) bsn? prs? - v.f.g. qtz (>80%); mod v.f.g. to f.g. phl? filled fracx within mtx; few v.f.g. dol ± v.f.g. fl - v.f.g. qtz vns x-cut everything.</p> <p>106.58 m to 107.22 m - mod abnt hy-therm v.f.g. dol ± v.f.g. qtz vns; dol rims, qtz centres; 1 vn with v.f.g. to f.g. asbestos form med b-gy amph (itsl) (riebeckite?) within qtz core. dol ± qtz vns are cut by a few v.f.g. dol - v.f.g. asbestos form med b-gy amp (riebeckite?) - f.g. qtz vns. 1 such vn has rare m.g. bladed to lathlike mod pk (5R 6/6) sil min (Kfs?) - 7 cm zone with abnt v.f.g. mag vnlet.</p> | | 96.04 m to 127.97 m - clst-sup brc, locld psd-brc sections. | 98.77 | 710 |
| | | | | | | | 104.60 | 1000 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 127.97 | 139.92 | dol-Carb | | 107.60 m to 107.73 m - clst-sup dol-Carb brc dyke, 0.3-2 cm wide sub-rnd to sub-ang dol-Carb clsts (altd xenoliths?), some with gy-pk (5R 8/2) altn patches/rims that fluorescent w under UV light (= ap?, Kfs?) few v.f.g. bio filled fracs + vugs. | | | | |
| | | | | 111.00 m to 116.00 m - locld wkly magnetic med lt gy (N6) patches and vnlet, diss v.f.g. py (trace), v.f.g. diss met silver blebs (ilm?, r-gy streak, 4-7%), trace-2% v.f.g. to f.g. qtz diss in dol gdmass. | | | 112.10 | 1110 |
| | | | | 117.97 m to 118.22 m - v.v.f.g. mod r-og bsn? prs?; itsl in qtz blebs and pods; trace -1% overall. | | | 114.65 | 800 |
| | | | | @121.25 m - 1.5 cm wide v.f.g. dol-Carb dyklet with 2-3% v.v.f.g. mod r-og (10R 6/6) itsl min (bsn? prs?), 1% v.f.g. itsl fl. | | | | |
| | | | | 123.53 to 123.80 m - well sorted mtx-sup brc, sub-rnd to rnd dol-Carb clsts (0.2-0.5 cm avgs), fl abnt dol-Carb mtx; mod r (5R 4/6) min intergrown with fl (altd fl?). x-cut dol-Carb brc dyklet; minor sub-rnd to sub-ang w dol-Carb clsts (0.2-0.4 cm); med lt gy v.f.g. to f.g. dol mtx with trace f.g. to m.g. anh to euh py, 2-5% itsl med b-gy anh amph (arf?), 1-2% f.g. anh sph. | | | 123.65 | 895 |
| | | | | | | | | |
| | | | | 125.25 to 125.41 m - wkly magnetic dk gy patch (v.f.g. ilm?), 2% m.g. to v.c.g. anh to euh diss py. | | | | |
| | | | | unit max: 1110 CPS. unit min: 566 CPS. unit avg: 806 CPS. | | | | |
| | | | | 125.48 to 125.73 m - mod abnt v.f.g. anh mag - v.v.f.g. anh sph - v.f.g. to m.g. anh to euh py - v.f.g. to v.v.f.g. anh qtz - v.f.g. to f.g. dol vnlet. | | | 126.00 | 880 |
| | | | | <u>patchy f.g. fl dol-Carb</u> minerals: dol: 95%, f.g., anh; fl: 5%, v.f.g., anh; py: trace, f.g. to v.f.g., anh, diss; trace: qtz, chl, amph (arf?) | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|---|-------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 139.92 | 239.56 | dol-Carb | | lt ol-gy (5Y 6/1) and gy-p (5P 4/2); patchy text defined by abnt fl patches; locld 0.5 to 1.0 m relatively mass sections with no fl patches; <3% fl in gdmass, fl dominantly occurs as late patches and diss blebs. v. locld clusters of v.f.g. med b-gy amph (arf?) occur @ top of interval v.f.g. to f.g. pale ol (10Y 6/2) dol-Carb dyklets cut host dol-Carb; mod abnt, ~every 0.5 m-1.0 m. late fl filled fracs x-cut host Carb and dol-Carb dykes. minor qtz ± dol ± fl vns x-cut all other features. rare locld chl filled vugs. | @127.97 m - ctc; grad, text change from br to patchy. | 127.97 m to 139.32 m - patchy text. | 128.84 | 775 |
| | | | | 129.92 m to 130.78 m - fl patches absent, content ↓ to <3%, also @131.47 to 132.03 m, few x-cut v.f.g. dol - f.g. to m.g. qtz vns. | | | 133.21 | 605 |
| | | | | 136.46 m to 136.58 m - abnt dk gy v.f.g. mag vnlet x-cut host dol-Carb + each other. | | | 136.20 | 610 |
| | | | | 137.21 m to 137.22 m - few x-cut v.f.g. dol - m.g. to c.g. qtz vns. | | | 139.40 | 700 |
| | | | | unit max: 775 CPS. unit max: 504 CPS. unit avg: 595 CPS. | | | | |
| | | | | <u>patchy f.g. dol-Carb</u> minerals: dol: 97%, f.g., anh; fl: 3%, v.f.g., anh, up to 7%; py: trace, v.f.g., anh, to m.g., to euh, diss; trace: chl, bsn? prs?, amph (arf?), bio/phl,qtz, mnz?, sph?, sul. | | | | |
| | | | | pale ol (10Y 6/2) and gy-p (5P 4/2), f.g., patchy text. fl content relatively low in gdmass, dominantly occurs in late diss blebs, locld concentrated patches of diss blebs and small pods. locld portions with trace to 3% qtz, as diss blebs of v.f.g. qtz itsl to dol gdmass. mod abnt v.f.g. to f.g. pale ol dol-Carb dyklet cut host dol-Carb ctc are sharp or diffuse. dol-Carb dyklets with zoned and/or rimmed abnt v.f.g. fl and/or v.f.g. mafics are mod common. mod abnt locld f.g. to m.g. anh to euh py - v.f.g. dk gy to br-gy mafics (bio, chl?, sul?) vnlet; minor v.f.g. bio and/or chl filled fracs. minor locld fl filled fracs cut dol-Carb dyklets. late x-cut qtz ± dol ± fl vns and filled vugs, minor locld chl? filled vugs. | @139.92 m - ctc grad, ↓ fl content, ↑ CPS values. | 139.92 m to 161.54 m - patchy text. | | |
| | | | | @146.02 m - 1 cm wide m.g. to c.g. qtz vn, again @152.20 m (+ v.f.g. to f.g. dol) | | | 143.56 | 650 |
| | | | | 151.91 m to 152.19 m - abnt v.f.g. to f.g. qtz blebs with v.v.f.g. itsl mod r-og (10R 6/6) min (bsn? prs?); mod abnt v.v.f.g. to v.f.g. med b-gy amph (arf?) blebs. | | | 150.79 | 560 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 156.06 m to 156.88 m - 7 cm wide x-cut brc? dyke; rnd w dol-Carb clsts/pods (xenocrysts/xenoliths?), H = 4.5, but powder fizzes, may have v.f.g. itsl qtz or f.g. itsl plag within - would explain hardness; clst/pod sizes range from 6 cm x 6 cm to 0.4 cm x 0.4 cm. med gy f.g.. dol-Carb mtz with 1% v.f.g. to f.g. fl. common chloritized v.f.g.-f.g.: gr-blk (5GY 2/1) to dk-gr-gy (5GY 4/1) bio filled vugs and pods within mtz and clsts. minor gr-blk (5GY 2/1) v.f.g bio and/or med tan (10YR 5/4) v.f.g. phl filled fracs. minor v.f.g. qtz vnlet cut 1 large dol-Carb clst/pod. trace v.f.g. dk y-og (10YR 6/6) min (mnz?, H = 4.5) in locld diss blebs; abnt gr-blk (5GY 2/1) v.f.g. bio and med tan (10YR 5/4) v.f.g. phl ± v.f.g. sph filled fracs. | | | | |
| | | | | 159.07 m to 159.96 m - few x-cut translucent qtz vns; 8 cm x 6 cm altd w + gy-pk (5R 8/2) - pk-br (5YR 6/4) dol-Carb clst (enclave/xenolith?). mod v.f.g. gr-blk (5GY 2/1) bio and v.f.g. med tan (10YR 5/4) phl filled vugs and fracs, trace fl filled vugs within clst/xenolith, few v.f.g. dol - v.f.g. qtz vnlet x-cut clst/xenolith. | | | 158.15 | 730 |
| | | | | 161.54 m to 163.33 m - well sorted clst-sup brc, clst boundaries are diffuse giving healed appearance. brittle frac overprint. dominantly med lt gy (N6) ang dol-Carb clsts (3-6 mm avgs), few locld floating rnd w dol-Carb clsts (xenoclsts?) abnt fl filled fracs, locld vuggy zones with v.v.f.g. to v.f.g. mod r-br (10R 4/6) xtl n min (sid) + v.f.g. cc lined vugs and fracs. trace v. locld mod r-og (10R 6/6) v.f.g. min (bsn? prs?) blebs, some along frac planes mod v.f.g. gr-blk (5GY 2/1) bio (some chloritized) filled vugs + fracs. | | 161.54 m to 163.33 m - healed clst-sup brc. | 163.65 | 1005 |
| | | | | 166.65 m to 182.82 m - increase in fl abnt patches, some with w - lt gy (N9) dol-Carb psd-clst aggregates (healed wk ctsc?), results in psd-brc appearance. | | 163.33 m to 223.35 m - patchy text. | 168.05 | 890 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 175.29 m to 176.33 m - v. altd enclaves/xenoliths, 4 cm x 4 cm to 8 cm x >6 cm size ranges, v.f.g., mod pk (5R 7/4) to gy-pk (5R 8/2), some with gy-r (5R 4/2) to pale r-br (10R 5/4) reations rims (xenotime?). cores comprising v.f.g. v. pale pk (10R 8/2) min, powder fizzes, but harder than typical dol, H = 4-4.5 (=dol + itsl Kfs?); fluoresces w under UV light. enclaves/xenoliths cut by vnlet with same colour (= same composition?) as rxn rims. minor fl blebs within enclaves, mod v.f.g. gr-blk (5GY 2/1) bio filled vugs and fracs, same chloritized. XRF readings on one xenolith/enclaves: 0.5% TREO, ~1455 ppm Th; 12400 ppm Y; 186.4 ppm Nb; 318.9 ppm Zr - 8 cm wide dol-Carb dyklet? (diffuse ctc, difficult to determine) with m.g. rnd w dol xtls (clsts?), and smeared looking xenoliths/clsts described above within, v.f.g. med lt gy (N6) dol-Carb gdmasss (mtx). | | | 174.00 | 815 |
| | | | | 183.33 m to 184.86 m - fl abnt patches absent. | | | 178.40 | 795 |
| | | | | 186.78 to 187.27 m - 2 cm x 2.5 cm v. altd mod pk (5R 7/4) enclave/xenolith. v.f.g. dol + v.f.g. gy-pk min (H = 4-5? Kfs?); abnt fracs within enclave filled with trace. v.v.f.g. - to v.f.g. dk gy sph blebs itsl to v.f.g. translucent lt bg (10YR 6/2) qtz? (H >6). XRF values for enclave: 1. 10% TREO; 2172 ppm Th; 12900 ppm Y; 1005 ppm Sm; 4702 ppm Ce. also mod og-pk (10R 7/4) - y-gy (5YR 8/1) patches with mod pk (5R 7/4) - to gy-pk (5R 8/2) v.v.f.g. min (Kfs?, REflc?) - v.f.g. dol blebs and pods + mod y-br (10YR 5/4) v.f.g. min (mnz?) blebs + qtz blebs (patches may be more assimilated/partically melted xenoliths? - no rxn rims or ctc visible with dol-Carb host). dol-Carb host more siliceous than usual. abnt v.f.g. to f.g. euh dol - f.g. to v.f.g. anh fl - f.g. anh qtz filled vugs. dol encrusted walls, fl - qtz centres. XRF values of 1 patch: 0.6 % TREO, 2444 ppm CE; 1112 ppm TH; 12300 ppm Y. | | | 187.00 | 1000 |
| | | | | 186.23 m to 188.04 m - abnt zoned dol-Carb dyklet with thin v.v.f.g. mafic (sul?) stringers. all concordant with each other, 24°-34° TCA. | | | | |
| | | | | 192.80 m to 194.85 m - fl patches absent, trace-1% v.v.f.g. to f.g. dk gy sub-met sul (sph?), loclcd qtz pods and blebs with f.g. med b-gy itsl amph (arf?), some in radiating clusters; few x-cut qtz vns. trace v.f.g. mod r-og min (bsn? prs?) | | | 191.20 | 760 |
| | | | | 195.57 to 195.71 m - 4 cm wide v.f.g. to f.g. lt ol-gy (5Y 6/1) - med gy (N5) dol-Carb dyklet; suc dol gdmass with abnt itsl f.g.-v.f.g. qtz; trace itsl v.f.g. fl, trace v.v.f.g. med gy sub-met sul (sph?), trace-1% f.g.-m.g. anh py few loclcd qtz pods with trace v.f.g.-v.v.f.g. mod r-og (10R 6/6) itsl min (bsn? prs?) | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 198.39 to 198.62 m - hy-therm dol-qtz vnlet leading into v.f.g. to m.g. anh fl - f.g. to c.g. anh to euh py - v.f.g. to f.g. euh dol - v.f.g. to f.g. anh qtz filled vug. dol encrusted walls, other mins in core, also minor pale gr (10G 6/2) v.f.g. min (amph?) in core; lt r (5R 6/6) trace v.f.g. hard (6.5 to 7.0) min @ edges (Kfs?). also 1.5 cm x-cut v.f.g. dol v.f.g. qtz vn. | | | | |
| | | | | 198.95 to 199.65 m - 27 cm patch (dol-Carb dyklet?, no ctc, difficult to determine) with abnt pods and thin stringers of diss v.v.f.g. med gy silver sul (sph?) - v.f.g. honey y (10Y 6/6) diss min (mnz?) - v.f.g. qtz - v.f.g.-f.g. dol few v.f.g. dol - v.f.g. qtz filled vugs and x-cut vnlet. locld v.f.g med b-gy (5B 5/1) amph (arf?) clusters. | | | 199.15 | 940 |
| | | | | 200.76 m to 201.40 m - 5-8 cm wide dol-Carb brc dyke?; no ctc visible; w rnd to sub-rnd dol-Carb clsts (3 mm avgs), v.f.g. med lt gy (N6) dol-Carb mtx; few gy-pk (5R 8/2) and pale p (5P 6/2) rnd enclaves?/xenoliths? - no rxn rims; - consisting of v.f.g. dol with v.v.f.g. itsl mod og-pk (10R 7/4) min (Kfs? - REflc?) and abnt v.f.g. fl pods. common fl filled frac cut everything. | | | 202.85 | 715 |
| | | | | 208.06 m to 209.74 m - mod fl patches and thin stringers; locld portions with abnt f.g.-v.f.g. qtz itsl to v.f.g. to f.g. suc dol gdmass, qtz blebs (0.5-1 mm avgs) with itsl v.v.f.g. mod r-og min (bsn? prs?) ± v.f.g. fl. trace to 2% v.v.f.g. med dk gy (N4) sub-met sul (sph?) in locld diss blebs thoroughout. locld v.v.f.g. mod y-br (10R 4/6) - mod r-og (10R 6/6) min (bsn? prs?) in diss blebs few x-cut v.f.g. qtz ± v.f.g. dol vns. | | | 209.60 | 815 |
| | | | | 208.97 m to 209.50 m - 1% bsn? prs?, diss blebs, see above description comments. | | | | |
| | | | | 212.14 m to 212.78 m - few xtl n x-cut dol-Carb dyklet with 1-2% v.f.g. anh itsl qtz altn v.v.f.g. fl inclusions, itsl v.v.f.g. gr-blk mafic (bio?). these dyklet cut by few zoned fl dol-Carb dyklet. | | | | |
| | | | | 216.57 m to 217.66 m - few x-cut v.f.g. med dk gy silver sul (sph) - v.f.g.-f.g. anh qtz f.g.-m.g. anh dol vns; qtz content up to 2% in vns; 4 cm x 4 cm pod (enclave?) @215.54 m with 2% med dk gy (N4) sub-met to met sul (sph?) + trace f.g.-v.f.g. qtz itsl to f.g. dol gdmass. | | | 217.45 | 760 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>217.86 m to 218.23 m - x-cut dol-Carb brc dyke; mod well sorted, clst-sup; sub-rnd to sub-ang w dol-Carb clsts, minor med lt gy dol-Carb clsts with itsl v.f.g. qtz abnt - v.f.g.-f.g. chl filled fracs + vugs; some vugs may be chloritized clsts - difficult to determine; trace med gy v.f.g. sub-met sul (sph?) in diss blebs sharp ctc, zoned with v.v.f.g. mafic (sul?-chl?) rims. trace v.f.g.-f.g. diss py.</p> | @217.86 m - ctc dol-Carb brc dyke, 20° TCA. | | | |
| | | | | <p>218.60 m to 221.73 m - decrease in fl abnt patches to v. minor abundance. sections from 218.60 m to 219.20 m appears wkly shrd, has psd-brc text (healed ctsc); abnt cr (10YR 8/2) dol-Carb 'clst' aggregates separated by diffuse lt tan br (10YR 7/4) blebs (v.f.g. mineralization? - cannot discern); diffuse ctc visible - may be some sort of intrusive dyklet; rest of interval relatively mass. common chl ± py, filled vugs + fracs.</p> | @218.23 m - ctc dol-Carb brc dyke, 20° TCA. | 220.33 | 675 | |
| | | | | <p>222.15 m to 222.94 m - fl, 15%, concentrated patches.</p> | | | | |
| | | | | <p>223.35 m to 229.20 m - mottled text, locld psd-brc text (wk ctsc + healing?).</p> | | | | |
| | | | | <p>225.02 m to 225.14 m - 8 cm wide dol-Carb brc dyklet similar to described @217.86 m to 218.23 m. few gy-pk (5R 8/2) to mod og-pk (10R 7/4) rnd dol-Carb clsts (xenoliths?) 1.5 cm x 1.5cm, 2 cm x 5 cm and 1 cm x 3 cm sizes. dominantly consists of v.f.g. v. pale pk (10R 8/2) dol with 1-2% v.v.f.g. ilm blebs, trace itsl (v.f.g.) qtz, v. locld trace v.f.g. fl. clsts/xenoliths fluoresce w under UV light.</p> | | | | |
| | | | | <p>225.40 m to 225.70 m - hy-therm vn, v.v.f.g. mod r-br (10R 4/6) min (bsn? prs?) - v.f.g. fl - v.f.g. qtz - v.f.g. dol; dol encrusted walls, bsn? prs? blebs and fl blebs diss throughout, small qtz pocket vn centre, locld chl filled vug. trace v.v.f.g. bsn? prs? diss blebs within host dol-Carb.</p> | | | | |
| | | | | <p>228.60 m to 229.20 m - trace v.f.g. mod r-og (10R 6/6) min (bsn? prs?) - diss blebs in v.f.g. suc dol gdmass.</p> | | | 227.60 | 685 |
| | | | | <p>229.20 m to 239.56 m - psd brc text; aggregates of w - v. lt gy (N8) dol-Carb 'clsts'; commonly seperated by fl blebs and thin stringers (result of wk ctsc + healing?).</p> | | | | |
| | | | | <p>229.88 to 229.95 m - patch with 1% v.v.f.g. mod r-og (10R 6/6) min (bsn? prs?) in diss blebs within suc v.f.g. - dol gdmass bsn? prs? also itsl within locld v.f.g. qtz? blebs (<1 mm).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 239.56 | 296.94 | dol-Carb | | 229.33 m to 229.95 m - 1% bsn? prs? | | | 231.74 | 905 |
| | | | | 231.59 m to 232.15 m - fl content increase to 10%; as diss blebs; 2% py, m.g. euh grains and v.f.g to f.g. anh grains.; 1% v.f.g. mod y-br min (mnz?) - diss blebs; trace v.f.g. dk gy (N3) met ilm blebs; few concordant b-gr (5BG 3/2) f.g. acicular amph (arf?) vns x-cut everything, some vns have comb text. minor late v.v.f.g. fl - v.f.g. qtz blebs. | | | | |
| | | | | 231.59 m to 232.15 m - 10% fl, diss blebs; 1% v.f.g. mnz? | | | | |
| | | | | 232.71 m to 233.17 m - two x-cut qtz vns, 3 cm and 0.5 cm across. | @235.00 m - fol, wk shrg, 45° TCA. | | | |
| | | | | 234.26 m to 236.18 m - wk shr bndg, wkly ctsc appearance. | @235.65 m - fol, wk shrg 60° TCA. | | 237.46 | 580 |
| | | | | unit max: 1005 CPS. unit min: 400 CPS. unit avg: 675 CPS. | | | | |
| | | | | <u>f.g. mottled dol-Carb</u> | | | | |
| | | | | minerals: dol: 97%, f.g., anh, to v.f.g., to suh; fl: 3%, v.f.g. anh to f.g.; py: trace, v.f.g., anh, to f.g., suh, diss; trace: chl, bio, phl, qtz, cc, bsn? prs?, sph?, sul. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | lt gy (N7) and pale ol (10Y 6/2), f.g. to v.f.g.; patchy text @ top part of unit, defined by mod-minor fl abnt patches, decrease in occurrence by approx 264 m. remainder of unit relatively homo; mottled text with v.f.g. suc dol gdmass (fl patches rare to absent), loclcd portions with minor to intense cc dol walted vugs. loclcd clst-sup brc intervals towards end of unit, some with re-brcd + healed text. v.v.f.g. to v.f.g. mod r-og (10R 6/6) bsn? prs? occurs in v. loclcd blebs; difficult to see without handlens/microscope. f.g. to v.f.g. pale ol (10Y 6/2) dol-Carb dyklet x-cut host dol-Carb, less common than prev unit, random orientations, decreasing in occurrence downhole. mod common bio and/or phl filled fracs + vugs, some bio chloritized. rare loclcd x-cut qtz vns ± v.f.g. bsn? prs? ± v.f.g. fl. | @239.56 m - ctc, grad over a few metres; scmt drops below 500 CPS, decrease in fl patches to minor to rare. | | | |
| | | | | 247.04 m to 247.43 m - 9 cm x 4 cm altn patch with f.g. dk gr-gy (5GY 4/1) bio clusters (3% overall); 2% v.f.g. to m.g. anh to suh diss py; trace med b-gy (5B 5/1) v.f.g. to f.g. bladed to acicular amph; trace v.f.g. mod pk (5R 7/4) bladed to acicular amph; minor qtz blebs (1-2%), trace v.f.g. fl blebs with trace v.v.f.g. mod r-og (10R 6/6) itsl min (bsn? prs?), 1% med dk gy met v.v.f.g. ilm blebs all randomly situated in v.f.g. suc dol gdmass. 1 cm wide qtz vn with v.v.f.g. to f.g. med b-gy (5B 5/1) amph and mod pk (5R 7/4) amph, acicular to bladed, some radiating buretes. mod r-og (10R 6/6) v.v.f.g. min (bsn? prs?) diss within dol gdmass adjacent to vn ctc. 1% f.g. dk gy (5GY 4/1) bio @ vn ctc. | | 239.56 m to 265.60 m - patchy text; minor-mod fl patches (<5% fl overall). | 244.00 | 510 |
| | | | | 250.26 m to 250.90 m - 2.5 cm wide v.f.g. to m.g. anh to euh py - v.f.g. to f.g. anh po vn (@250.26 m) vn cut by dol-Carb dyklet; 6 cm x >4 cm sub-ang xenolith? lt br-gy (5YR 6/1) with pale pk (10R 8/2) to mod-pk (5Y 7/4) sections; abnt qtz blebs (15% overall), trace med dk gy met v.f.g. ilm blebs, trace-1% v.f.g. bio in dol gdmass xenoliths? (dol-Carb clsts?) fluoresces w in UV light, located @250.83 m. | | | 248.63 | 405 |
| | | | | 252.93 m to 256.33 m - loclcd zones with mod pale cr (10R 8/2) v.f.g. cc dol filled vugs and x-cut paleor vuggy cc vnlet. also rare x-cut v.f.g. dol-Carb dyklet, cc dol filled vuggy rims/ctcs + minor cc dol filled vugs within (rims = rxn/altn product of prev min?, vuggy cc dol filled vnlet may = altd dol-Carb dyklet?); occurs again from 259.39 m to 262.39 m. | | | 256.47 | 475 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 259.09 to 259.23 m - mod well sorted clst-sup brc (vn? no ctcs); ang to sub-ang v. lt gy (N8) dol-Carb clsts (0.2-0.4 cm avgs), v.v.v.f.g. itsl fl - v.f.g. diss py, locld section @ top is v. poorly sorted, clst-sup, ang dol-Carb clsts. | | | | |
| | | | | 263.23 m to 263.50 m - abnt v.f.g. to f.g. qtz blebs and pods with v.v.f.g. itsl mod r-og (10R 6/6) itsl min (bsn? prs?), 2-4% qtz overall, trace-1% bsn? prs?; again @264.35 m to 265.55 m - mod to intense vuggy zones, v.f.g. cr (10YR 8/2) to pale pk (10R 8/2) cc dol ± fl ± v.f.g.-m.g. py infill and/or lined walls and vuggy v.f.g. cc ± fl vns (=altd dol-Carb dyklet?) @ 265.60 m to 266.86 m, 267.41 m to 267.65 m. | | | 263.43 | 595 |
| | | | | 263.23 m to 263.50 m; 264.35 m to 265.55 m - bsn? prs?, trace - 1%. | | | | |
| | | | | 265.60 m to 270.86 m - mottled text, locld wkly to str vuggy sections. fl patches rare to absent. | | | | |
| | | | | 268.67 m to 269.40 m - 20 cm section with abnt diffuse bnds of v. thin v.v.f.g. to v.f.g. med dk gy (N5) sul (sph?) - may be within dol-Carb dyklets with diffuse ctc? - difficult to determine. 1-2% v.v.f.g. dk y-og (10YR 6/6) min locld diss blebs (mnz?), 1% qtz - f.g. to v.f.g. diss blebs. | | | 266.43 | 511 |
| | | | | 268.67 m to 269.40 m - sph?, trace to 1%, mnz?, 1-2%. | | | | |
| | | | | 270.86 to 282.40 m - mottled text, pathces absent. | | | | |
| | | | | @272.20 m - 6 cm x 4 cm dol-Carb enclave; v.v.f.g. med dk gy sub-met min (ilm, 1%,diss), v.f.g. to f.g. anh qtz (1-3%, itsl), v.f.g. to f.g. dol gdmass; enclave rims and fracs fluoresce w under UV light. | | | 272.18 | 395 |
| | | | | 277.00 m to 277.33 m - clst-sup brc, battle frac, ang dol-Carb clsts, abnt chl? filled fracs, has re-brcd appearance, truncates dol-Carb brc dyklet. | | | 278.00 | 380 |
| | | | | 279.43 to 280.15 m - intensely vuggy interval, 0.2-0.4 cm cr (10YR 8/2) v.f.g. cc dol filled vugs; large (2 cm-5 cm across) open vugs with mod og-pk (10R 7/4) v.f.g. to f.g. anh to euh cc walls ± mod r (5R 4/6) m.g. euh sid? encrusted overgrowths. sid? xtls have curved xl fracs, mod r coating, milky w-clear inside (= dol with Fe-ox coating?, powder readily fizzes). | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>280.70 m to 288.12 m - mod og-pk (5YR 8/4) v.f.g.-m.g. vuggy cc vns ± m.g. to f.g. mod r-br (10R 4/6) sid? (described @ 279.43 m to 280.15 m) - minor to mod throughout interval. also minor to mod f.g. to m.g. suh to euh mod r-br (10R 4/6) sid? ± v.f.g. cc - v.f.g. dol vuggy vns and coated fracs, abnt @285.30 m to 285.52 m, 285.75 m to 286.10 m, 286.90 m to 287.16 m. one sid vn @ 287.12 m has 1% f.g. to m.g. w translucent bar? (H:3.5) with euh petal/leaf like form.</p> <p>282.40 m to 296.94 m - healed clst-sup brc, brittle frac overprint.</p> <p>289.40 m to 293.20 m - mod v.f.g. gr-blk (5GY 2/1) chl ± v.f.g. sul? ± v.f.g. py filled vugs + fracs.</p> <p>@293.50 m - 20 cm long, 0.5 cm wide f.g. anh chp - f.g. euh bar - f.g. to m.g. mod r-br (10R 4/6) sid - v.f.g. to f.g. cc vn.</p> <p>294.31 m to 295.04 m - v.v.f.g. mod r-br (10R 4/6 (XRF values; TREO: 1.55%; Gd: 300.8 ppm; Nd: 2880 ppm; Ce: 7063 ppm; La: 3716 ppm; Th: 586 ppm; Y: 7788 ppm)) diss min (bsn? prs?) in ol-gy (5Y 4/1) - gr-gy (5GY 6/1) v.f.g. dol gdmass; 3-4% overall: trace v.v.f.g. dk gy (N3) sul (sph?) - loclly diss. minor v.f.g. dol ± v.f.g. cc filled vugs. minor gr-blk (%GY 2/1) v.f.g. mafic (chl?) vnlet; no evident brcd portions here. vuggy pod with br-gy (5YR 4/1) m.g. to f.g. suh sid walls.</p> <p>294.31 m to 295.04 m - bsn? prs?, 3-4%.</p> <p>295.28 m to 295.82 m - wkly shrd, mod sorted clst-sup brc. rnd w dol-Carb clsts, some appear re-brcd and rextld, 0.4 cm-0.8 cm avgs, lt gy rnd to sub-rnd dol-Carb clsts; v.f.g. gr-blk (5GY 2/1) chl abnt mtx. interval appears re-brcd + healed. again @296.00 m to 296.45 m.</p> <p>unit avg: 425 CPS. unit max: 875 CPS. unit min: 295 CPS.</p> | | | 284.90 | 340 |
| | | | | | | | 289.73 | 340 |
| | | | | | | | 295.00 | 875 |
| | | | | | | | 296.67 | 525 |
| 296.94 | 343.02 | dol-Carb | | <p><u>f.g. mottled/psd-brc dol-Carb</u></p> <p>minerals: dol: 97%, f.g., anh, to v.f.g.; fl: 3%, v.f.g., anh, to f.g., loclcd; cc: trace, v.f.g., anh, to f.g., loclcd; py: trace, v.f.g., anh, to f.g., diss; trace: sul, chl, bio and/or phl, bsn? prs?, hem?, lim?, sph?, chp, qtz.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>pale ol (10Y 6/2) and med lt gy (N6), colour dkns loclly to med gy (N5), mottled to psd-brc text with v. loclld wkly shrd sections. common sections with w (N9) - cr (10YR 8/2) dol-Carb 'clst' aggregates floating in v.f.g. - f.g. dol gdmass or separated by thin med gy (N5) - med b-gy (5B 5/1) v.v.f.g. to v.f.g. mafic (sul?) stringers. dol-Carb aggregates commonly vuggy with v.f.g. - f.g. cc dol walls.</p> <p>minor to intense cc dol (+ v.f.g. py) filled and/or walled walled vuggy zones throughout unit. fl relatively rare, occuring in v. loclld stringers + patches, commonly associated with dol-Carb 'clst' aggregates loclld zones of v.v.f.g. mod r-og (10R 6/6) bsn? prs?, in diss blebs, trace throughout, up to 2% loclly. minor x-cut v.f.g. - f.g. dol-Carb dyklet, less common than prev unit, ~every 1-2 m; v.v.f.g. - v.f.g. med dk gy (N4) mafics (sul?) diss within dyklet are common, many also partially to completely altd with vuggy dol cc walled rims and cores. abnt v.v.f.g. - v.f.g. med dk gy (N4) sul vnlet throughout interval. minor loclld mod r-br (10R 4/6) hem and/or lim coated fracs. unit has undergone moderately pervasive carbonate altn, evident through altn of dol-Carb clst aggregates + dol-Carb dyklets and presence of cc dol vuggy intervals.</p> | | 296.94 m to 308.29 m mottled to psd-brc text. | | |
| | | | | <p>300.55 m to 301.42 m - mod abnt cc walled vugs, few f.g. euh mod r-br (10R 4/6) sid? coated fracs.</p> | @296.94 m - ctc, grad, text change to psd-brc, increase vuggy zones, colour dkns slightly. | 300.33 | 535 | |
| | | | | <p>302.26 m to 302.77 m - poorly sorted mtx-sup dol-Carb brc dyke; ang lt gy (N7) dol-Carb clsts (0.3-3 cm across); med dk gy (N4) v.v.f.g. mafic abnt (sul?) dol-Carb mtx; sharp ctcs.</p> | 302.26 m, 302.97 m - ctc, 25° TCA, dol-Carb brc dyke, sharp. | | | |
| | | | | <p>303.54 m to 304.70 m - well sorted mtx-sup dol-Carb brc dyklet? (diffuse ctcs, nature indiscernible); v. lt gy rnd dol-Carb clsts (2-3 mm avgs); med gy (N5) dol-Carb mtx (+ v.v.f.g. mafics?); interval has healed/rextld appearance minor v.f.g. qtz pods (2-3 mm across) with trace v.f.g. mod r-og (10R 6/6) itsl min (bsn? prs?).</p> | | | | |
| | | | | <p>305.35 m to 305.47 m - 1% v.v.f.g. mod r-og (10R 6/6) to pale r-br (10R 5/4) min (bsn? prs?) in diss blebs and itsl within small (<0.5 mm) qtz blebs (trace-1% qtz overall); 1% v.v.f.g. py, 1% v.v.f.g. fl - diss blebs and itsl within qtz blebs; 1% v.v.f.g. dk gy sul (sph?); trace v.f.g. vitreous cr (10YR 8/2) min.</p> | | 305.37 | 685 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>305.35 m to 305.47 m - bsn? prs?, 1%.</p> <p>305.70 m to 307.94 m - fl, 3%, loclcd patches of thin stringers +- trace v.v.f.g. bsn? prs?</p> <p>308.29 m to 310.20 m - v. poorly sorted mtx-sup brc dol-Carb brc dyklet?; sub-ang to sub-rnd y-gy (5Y 7/2) to v. lt gy (N8) dol-Carb clsts (0.2 cm-4 cm across), lt ol gy (5Y 6/1) to med gy (N5) v.f.g. to f.g. dol-Carb mtx (dkr colour = abnt v.v.f.g. mafics?); minor v. loclcd med dk gy (N4) clsts (altd country rock?); mod v.v.f.g. qtz blebs (2-4 mm) with trace itsl v.v.f.g. gr-blk bio and/or phl (chloritized) filled fracs + vugs. interval is wkly to mod shrd, especially @ ctc; up ctc 23 cm ctsc text.</p> <p>310.51 m to 311.61 m - 1-2% v.v.f.g. to v.f.g. mod r-br (10R 4/6) bsn? prs?, diss blebs, itsl in qtz blebs; also lt br (5YR 6/4) v.v.f.g. min blebs, mnz?, trace - 1%</p> <p>311.05 to 311.20 m - intense vugs v.f.g. cc - v.f.g. dol encrusted walls, again @317.23 m to 317.66 m and 325.93 m to 326.81 m.</p> <p>314.22 m to 314.21 m - few v. lt gy (N8) to lt gy (N7) v.f.g. sub-rnd dol-Carb xenoliths?) mod og-pk (10R 7/4) v.v.f.g. min concentrated @ rims (= rxn rims?) + along fracs within xenoliths (?); fluoresces w under UV lighth, H: ~5.5 (Kfs?, ap?); trace v.v.f.g. sub-met dk gy (N3) sul (sph?) blebs.</p> <p>314.56 m to 316.99 m - trace-1% v.v.f.g. mod r-og (10 6/6) to mod r-br (10R 4/6) bsn? prs? in diss blebs; 1 cm wide v.f.g. py - f.g. chp vn x-cuts host dol-Carb @ 315.12 m abnt v.f.g. dk gy (N3) sub-met sph filled vugs + vnlet 1.5 cm wide hy-therm brc vn @ 315.84 m; ang lt gy (N7) dol-Carb clsts rimmed with cr (10YR 8/2) euh v.f.g. cc - euh v.f.g. dol.</p> <p>314.56 m to 316.99 m - trace-1% bsn? prs?</p> | | 310.20 m to 342.02 m mottled to psd-brc text. | 311.25 | 510 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 318.14 m to 318.64 m - few v.v.f.g. mod r-br (10R 4/6) bsn? prs? - v.f.g. w dol - v.f.g. clear qtz hytherm brc vns overprinted by brittle fracs with v.f.g. to m.g. anh to sub py - v.v.f.g. dk gy (N5) sub-met sul (sph?) infill and/or v.f.g. chl filled vugs (= chloritized bio?). | | | 318.24 | 525 |
| | | | | 319.00 m to 320.33 m - v. abnt v.f.g. py - v.f.g. to v.v.f.g. dk gy (N3) sub-met sul (sph?) vnlet. | | | | |
| | | | | 324.46 m to 325.05 m - colour dkns to med dk gy (N4) to med b-gy (5B 5/1); abnt v.v.f.g. gr-blk (5G 2/1) srp and/or chl (H: 2-3) filled vugs. | | | 324.15 | 385 |
| | | | | @326.64 m - colour dkns to med gy (N5) and lt ol-gy (5Y 6/1) for remainder of unit. | | | | |
| | | | | 326.69 m to 326.81 m - 3% v.v.f.g. mod r-og (10R 6/6) min (bsn? prs?), diss blebs. | | | | |
| | | | | 328.40 m to 328.49 m - mod sorted clst-sup brc (dol-Carb brc dyklet?, diffuse ctc). | | | 328.15 | 350 |
| | | | | 330.90 m to 331.73 m - mod well sorted mtx-sup dol-Carb brc dyke. w (N9) rnd to sub-rnd dol-Carb clsts (3 mm-5 mm avgs); lt ol-gy (5Y 6/1) v.f.g. - f.g. dol-Carb mtx; trace locld fl blebs; trace locld qtz blebs with itsl v.v.f.g. mod r-og (10R 6/6) min (bsn? prs?); few v.v.f.g. gr-blk (5GY 2/1) mica (chloritized bio?) filled vugs (2-4 mm avgs). sharp ctc. | @330.90 m - ctc, sharp, dol-Carb brc dyklet, 46° TCA. | | 336.56 | 365 |
| | | | | 335.33 m to 33.10 m - trace - 1% v.v.f.g. mod r-og (10R 6/6) bsn? prs? - diss blebs; 2-4% v.v.f.g. med dk gy (N4) submeet sph? - diss blebs + vnlet ± v.f.g. chp - v.f.g. py. | | | | |
| | | | | 341.04 m to 341.67 m - v.f.g. fl, 8-10%, patches, thin stringers. | @331.73 m - ctc, sharp, dol-Carb brc dyklet, 51° TCA. | | 341.16 | 405 |
| | | | | unit avg: 405 CPS. unit max: 685 CPS. unit min: 250 CPS. | | | | |
| 342.02 | 375.45 | dol-Carb | | <u>wk to mod ctsc to brcd dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>minerals: dol: 98%, v.f.g. to f.g., anh; py: 1%, v.f.g., anh, to m.g., diss + locld aggregates; ilm?: 1%, v.f.g., anh, med dk gy (N4), sub-met, r-gy streak. locld pods wkly magnetic; trace: bio and/or phl, fl, bsn? prs?, chp, sul, sph?, po.</p> <p>w and med gy (N3) mod sorted clst-sup brc, commonly appears re-brcd, healed and rextld (locly psd-brc. sections). rnd w (N9) dol-Carb clsts, commonly collected in aggregates, v.f.g. mafic abnt dol-Carb mtx. v. locld zones of trace v.v.f.g. mod r-og (10R 6/6) min (bsn? prs?) blebs.brctd text overprinted by brittle frac and alt by abnt v.f.g. med gy sub-met min (ilm? hem?, see above, mineral description) ± v.f.g. py ± v.f.g. sul vnlet py locly increases to 2% in bclld pods + clusters. minor bio and/or phl pods + filled vugs some chloritized. minor v.f.g. qtz ± v.f.g. dol vns x-cut everything. minor v.f.g. to f.g. py ± v.f.g. chp vns + vnlet dol-Carb dyklet much less common than prev unit. (every 1-2 m).</p> <p>@342.02 m - ctc grad, disrupted by x-cut dol-Carb dyklet, disappearance of dol-cc vugs, text changes to brcd. initial decrease to <350 CPS.</p> <p>342.02 m to 356.06 m - clst-sup brc, locly crushed/re-brcd, healed + rextld, brittle frac overprint.</p> <p>342.45 m to 343.15 m - trace mod r-og (10R 6/6) bsn? prs?-diss blebs.</p> <p>@342.66 m - hy-therm f.g. suh to euh dol - f.g. to v.f.g. anh to suh fl - v.f.g. anh qtz vn; dol ± fl encrusted walls, qtz core.</p> <p>344.06 m to 344.50 m - 3% diss anh to euh f.g. to m.g. py; v.f.g. anh chp cluster.</p> <p>351.53 m to 351.63 m - locld patch with f.g. anh chp - v.f.g. to f.g. anh to f.g. anh to suh py - v.f.g. anh med dk gy wkly magnetic ilm (± v.f.g. mag?) all itsl to v.f.g. dol gdmass. similar occurs @353.89 to 353.15 m (few patches + vnlet with above assemblage)</p> <p>356.06 m to 359.73 m - mtx-sup brc, healed and overprinted by brittle frac, giving psd-brc appearance, colour dkns to med dk gy (N4) and lt ol-gy (5Y 6/1) from 356.06 m to 367.18 m.</p> | | | | |
| | | | | | | | 347.55 | 335 |
| | | | | | | | 350.90 | 275 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 359.73 m to 375.45 m - clst-sup brc, same psd-brc sections, brittle frac overprint. | | | | |
| | | | | 360.50 m to 361.00 m - w v.f.g. to f.g. mass eqgr dol-Carb (dyke?, interval boundaries fracd - no discernable ctc, may be compacted + healed dol-Carb clsts or may be large country rock xenolith?), abnt partially to completely chloritized bio and/or phl filled vugs (+ fracs), minor qtz pods with v.f.g. mod r-og (10R 6/6) itsl min (bsn? prs?); interval ends fracd, chl and qtz vugs most abnt here; x-cut v.f.g. qtz vn in centre. | | | | |
| | | | | 361.37 m to 362.31 m - locld patches with f.g. euh gr-blk (5GY 2/1) bio (2-3% overall), trace - 1% v.v.f.g. bsn? prs?; 2-3% med gy sub-met anh sph? - locld blebs; trace f.g. to m.g. acicular dk r-br (10R 3/4) sub-met rt? - locld along frac plane; 1 cm wide mod og-pk (10R 7/4) v.v.f.g. min (Kfs?) - v.f.g. qtz vn x-cut host dol-Carb. | | | 361.50 | 400 |
| | | | | 361.37 to 362.31 m - 2-3% sph? trace bsn? prs? | | | | |
| | | | | 362.87 m to 363.31 m - gy blk (N2) and w (N8) patch (partially assimilated country rock frag?); 65% v.f.g. to f.g. gr-blk (5GY 2/1) bio and/or phl, itsl and filling microfracs; trace v.f.g. med gy sub-met ilm? or hem? (r streak); trace - 1% v.f.g. locld mod r-og (10R 6/6) min (bsn? prs?); 2% v.f.g. to f.g. anh py v.f.g. - f.g. eqgr dol gdmass. minor x-cut v.f.g. to f.g. qtz vns, few with v.v.f.g. to v.f.g. itsl acicular lt br (5Y 5/6) to mod r-br (10R 4/6) rt? (6-8% within vns) XRF values: 7081 ppm Nb, 8151 ppm Ti (= niobian rt?) similar patern from 361.93 m to 362.30 m (less rt). | | | | |
| | | | | 364.68 m to 364.98 m - few v.v.f.g. to v.f.g. mod r-br (10R 4/6) min (bsn? prs?) vnlet. 4 cm x 4 cm w f.g. eqgr dol-Carb clst, few v.f.g. fl - v.f.g. qtz blebs within. diffuse halo around clst/xenolith consisting of v.v.f.g. mod r-br (10R 4/6) to lt br (5YR 5/6) itsl min (bsn? prs?) within in v.f.g. dol gdmass. | | | 364.70 | 450 |
| | | | | @367.05 m - v.f.g. to f.g. anh to suh py - v.f.g. to v.v.f.g. med gy (N3) wkly magnetic ilm? vn. | | | 368.30 | 450 |
| | | | | 371.21 m to 372.24 m - fl, 5-7%, diss bleb; thin stringers. | | | | |
| | | | | 371.21 m to 342.90 m - bsn? prs?, mod r-br (10R 4/6), 3-6%. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 375.45 | 381.43 | dol-Carb | | <p>@371.77 m - v.v.f.g. - f.g. w to gy-gr (10GY 5/2) talc ± srp coated frac.</p> <p>@ 373.28 m - 4 cm wide v.f.g to f.g. anh py - v.f.g. to v.v.f.g. med gy sub-met sul (sph?) - v.f.g. dol vn; similar vn @ 374.73 m.</p> <p>unit avg: 320 CPS. unit max: 450 CPS. unit min: 240 CPS.</p> <p><u>dol-Carb brc dykes</u> minerals: dol: 99%, anh, v.f.g.; py: trace, anh, v.f.g. to f.g., up to 1%; trace: fl, bio, qtz.</p> <p>med gy (N5) and gy-y (5Y 8/4), v. poorly sorted mtx-sup brc. sub-rnd to sub-ang gy-y (5Y 8/4) to y-gy (5Y 7/2) f.g. dol-Carb clsts, 2 mm-5 cm across, some appear re-brc and/or rextld. v.v.f.g. to v.f.g. med gy (N5) dol-Carb mtx. locl sections have same litho and text of prev unit, suggesting this unit appears to consist of multiple intrusive dol-Carb brc dykes, sharp ctc with prev unit. few x-cut qtz vns. locl ctsc sections. minor v.f.g.-f.g. amp</p> <p>375.45 m to 376.42 m - ctsc text?, <5% clsts, no evident shrg.</p> <p>376.42 m to 381.43 m - mtx-sup, poorly sorted brc.</p> <p>377.47 m to 377.88 m - interval has litho and text of prev unit, sharp undulatory ctcs. sharp ctc with dol-Carb brc dykes.</p> <p>@378.33 m - sharp ctc between prev unit litho + dol-Carb brc dyke, 30 cm section @ top with <1% clsts, ctsc text?, no evident shrg.</p> <p>@378.40 m - 2-3 cm wide v.f.g. dol - f.g. to m.g. qtz vn cuts dol-Carb</p> <p>@378.40 - 2-3 cm wide v.f.g dol - f.g. to m.g. qtz vn cuts dol-Carb.</p> <p>@379.65 m - few x-cut qtz vns.</p> | @375.45 m - ctc, sharp, undulatory, approx perpendicular TCA. | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 381.43 | 384.05 | dol-Carb | | <p><u>wk to mod ctsc dol-Carb</u></p> <p>similar to prev unit. dol-Carb clsts appear crushed, compacted, + partially rextld.</p> <p>382.60 m to 383.87 m - trace to 2% v.v.f.g. to v.f.g. mod r-br (10R 4/6) bsn? prs? EOH</p> | @381.43 m - ctc, sharp, 43° TCA. | | | |

Handwritten signature and date: 06/22/11

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536330.12 | Drill Company: Cartwright Drilling Ltd. | Date Started: Apr 23, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312515.44 | Rig Type: CDI 500 | Date Completed: Apr 28, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 10.67 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 548.64 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 9.93 | 76.38 | dol-Carb | | <p><u>ap bio dol-Carb</u></p> <p>lt-med gy-y-gy (5Y 7/2) typically c.g. dol xtls are lt gy, whereas f.g. gdmass is y to ol.</p> <p>gdmass is f.g., dol xtls f.g.-m.g. - rextld? ang.</p> <p>text varies from more homo/mass (top 20 m) sections to psd/healed brc to str fracd sections (infilled with bio/suls).</p> <p>MODAL MINERALOGY</p> <p>dol, other carbonates? 90% (f.g. to m.g. suh); bio 5% (f.g. itsl); ap 5% (f.g. anh, small clusters diss/mtx); bsn/prs trace, (f.g.); py, sph, other suls? trace (f.g. diss and bnds); fl trace.</p> <p>pretty rubbly down to 18.29 m, many fracs and broken sections.</p> <p>bsn/prs common mineralization above 15.10 m dusky r (5R 3/4), f.g. diss, forms small clusters locly, <5%.</p> <p>below 15 m, bsn/prs is rare/sporadic, locly in coarse dol sections/bnds. fl also seen locly associated with bsn/prs in top 15 m, rare, trace.</p> | | | 9.93 to 76.38 | 200-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@12 m- minor itsl bio appears ± py (and other suls?), increases down, infilling small frac.</p> <p>12.90 m to 13.25 m - bio up to 10%, itsl to dol grains and small clusters. dol grains here are w to lt gy, sub-rnd to sub-ang, m.g.. py forms rubes up to 5 mm within bio frac. sharp ctc at 13.25 m where bio stops, Carb returns to fairly homo with ~1% bsn/prs and dol grains are smaller and ang. at ctc, ~1 cm bnd of qtz+dol+cc (pk).</p> <p>more bio appears below 15 m, itsl increases up to 20% + suls loclly, surrounding dol grains and in frac, avg 5% for rest of unit.</p> <p>ltr gy-w sections fairly common down to 40 m, up to 1 m long, threse have coarser grained (m.g.) dol with reduced gdmass/other trace mins. likely rextld, may have diss bsn/prs or itsl bio and suls. typically sharp ctcs with rest of Carb. cut core at random angles - perpendicular to parallel TCA.</p> <p>ap? patches loclly - bright b-w under UV, up to 15% loclly. below 25 m, consistently 5-10%, mixed in mtx, may form small clusters.</p> <p>20.15 m to 21.28 m - w-lt gy dol bnd and diss bsn/prs, py/suls. both ctcs sharp, upper - pk (has cc) and fl blebs. x-cut this is a pale ol (10Y 6/2) late stage Carb dyke, ~1 cm wide, aph, uniform.</p> <p>@22.50 m - pale ol-dusky y (5Y 6/4) late stage Carb dyke x-cut,aph, 'smeared' look with trace bsn/prs? (r)</p> <p>Carb more hetero from ~20 m to 40 m due to ltr dol sections and variable bio (fracd sections).</p> <p>33.75 m to 36.58 m - fl diss loclly, blebs up to 5%, f.g. but forms clusters. also in frac. may have bsn/prs associated, <2% bsn/prs and fl also f.g. diss in gdmass for up to 25 cm loclly, trace.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>40 m to 58.70 m - core more homo/mass, fairly consistent lt-med gy, rare zones of w-lt gy rextld dol (m.g.), bio more uniformly diss in small patches/clusters, infilling fracs locly (minor) with rare larger patches (up to 5 cm).</p> <p>43.90 m to 45.60 m - late stage Carb dykes x-cut locly, up to 10 cm wide, pale ol to lt ol-gy, aph, sharp ctcs.</p> <p>@41.40 m - 10 cm zone with abnt qtz (vns/pockets), Carb frags within qtz. bio and chl? (gr) along ctcs with Carb locly.</p> <p>48 m to 49.10 m - f.g. bsn/prs in mtx locly (r), <1% couple bnds around 49 m - late stage dykes? fairly sharp ctcs with Carb, bsn/prs up to few %.</p> <p>59.50 m to 61.50 m - series of brittle faults running 10-20° TCA, surfaces have sks and minor fault gauge minor broken zones. top fault has sharp litho change.</p> <p>@58.70 m - sharp ctc to heavily fracd zone (nearly brc), bio and suls infilling fracs, rextld dol grains common (m.g. to c.g.) returns to more mass Carb with diss bio patches at 59.60 m (sharp ctc). lt gy duke cutting fracd section ~along CA no bio, 2-3 cm wide, f.g. dol (trace-no accessory/other minerals, no ap).</p> <p>59.60 m to end - mass f.g. to m.g., lt-med gy Carb with diss bio patches persists but with a few ltr gy sections - bio not consistently diss here, fracs increase, may have bsn/prs diss up to few %, ap concentrated in bnds (not diss).</p> <p>60.20 m to 63.40 m - trace bsn/prs diss, f.g., end slight r tinge to Carb. ap through here reduced, more spotty (clustered? faint b-w under UV). also r bnd at 62.75 m - late dyke? increase in bsn/prs but finer grained.</p> <p>68.20 m to 70.20 m - several dusky y - pale ol late stage Carb dykes x-cut Carb up to 4 cm wide, aph and uniform, dominantly at 20° TCA.</p> | | | | |

brittle faults
59.50 m to
61.50 m

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|-----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 76.38 | 171.16 | dol-Carb | | <p>69.70 m to 70.30 m - several dk gy bnds loaded with suls - py (suh-euh, 5-15%, f.g. to m.g., diss), probably also f.g. to v.f.g. sph or other sul in mtx.</p> <p>@64.75 m - four small qtz vns x-cut Carb, all <1 cm wide, nearly perpendicular TCA.</p> <p>72 m to end - bsn/prs diss in Carb, f.g. trace, locly mtx has r hue (increased bsn/prs).</p> <p><u>ap dol-Carb</u></p> <p>lt dk gy with mod r sections and patches and bnds common (5R 5/4).</p> <p>hetero unit - lt gy-dk gy Carb with common bsn/prs enriched sections - 'BD' type Carb. str fol/bnded sections common, approx 50% the interval.</p> <p>MODAL MINERALOGY</p> <p>dol, other carbonates 88%; ap 5%; bio 4%; bsn/prs 1%; py, sph, other suls? 2%; fl trace</p> <p>dol grains typically dominate, f.g. to m.g. ang, suh, rextld?</p> <p>bio itsl to dol, forms small clusters, f.g.</p> <p>ap rare/not present top few m, more common down - f.g. in mtx, forms small diss clusters, locly up to 15%. also concentrated bnds of ap in fol sections.</p> | | | 76.38 to 101.50 | 200-270 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>upper ctc of unit chosen based on increase of bns/prs. overall carb likely similar to that above except for common str fol and increased bsn.</p> <p>first couple m dominated by w-lt gy dol grains/dol - likely rextld, sub-ang. m.g. to c.g. y mtx locky itsl f.g. bsn/prs common, 5-8%, mod r. also many bio clusters/blotches scattered, and random frac with bio and suls. sharp ctcs between bio - abnt and bsn/prs later stage xtln? - abnt (no bio) sections.</p> <p>78.70 m to 101 m - bsn/prs much less common, diss, trace, rare zones up to 2% (notably at 85 m and 94.50 m up to 50 cm).</p> <p>78.70 m to 80.35 m - fairly homo, reduced fol pbl, bio and bsn/prs evenly diss, reduced grain size last 50 cm, less bio, Carb turns slightly r.</p> <p>sharp ctc at 80.35 m with sul bnd - dk gy (f.g. sph?) with ~25% py (m.g.) diss, 4 cm wide. several of these bnds down to 81.30 m smaller and reduced py, may also be mixed with ap (up to 25%) in between are w-lt gy mass dol bnds, ap patches and bio frac. bio and bsn/prs diss locky.</p> <p>dol and ap bdns/patches continue down to 83 m, patchy-scrambled text - vns disturbing Carb followed by rextln? bio frac common through here. minor suls? (f.g. gy, with ap?) and py patches locky.</p> <p>grades to more homo rock at 83 m, ap locky common in mtx (up to 20%), mod-str bnded/fol.</p> <p>84 m to 101 m - Carb is wkly-mod fol (some non-fol sections) with diss bio throughout (small clusters/patches ± suls, minor frac, up to 15% lolcky some sections with sub-rnd dol pbl locky, bio and/or ap?/suls? surrounding. text continuously changes - bndg, mineralogy and grainsize are variable.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------------------------------|----------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@90.50 m - late stage Carb dyke, 5 cm wide, sharp ctcs, smeared/layered, y-gy to pale r (trace bsn/prs), aph?</p> <p>97 m to 99 m - rock is med-fk gy, bndg continues, fairly uniform, f.g. ap consistently 5-10%, increased sph?, reduced - no bio. m.g. Carb dyke x-cut at 98.35 m, appears prtc - rextld brc? 3 cm wide with 1 cm border on either side, these are f.g. and r (trace bsn/prs?, multi-stage dyke?). sharp ctcs between Carb, outer walls and inner dyke.</p> <p>99 m to 100.75 m - blotchy dol clusters and frags with bio and sph? and ap? surrounding.</p> <p>below 101 m - text remains hetero, but bsn/prs sections become common ("ibd BD zone"?).</p> <p>mod r patches/clusters, bnds, locly itsl to dol blotches, locly up to 10% (but mostly <1%-trace).</p> <p>Carb dominantly w-lt gy (dol) y/med-dk-b-gy - due to minor itsl bio/ambI?(v.f.g.) locly. blotchy text (r dol clusters) with itsl bsn/prs at 101.50 m to 102 m and 103.10 m to 103.50 m, both up to 5% bsn/prs.</p> <p>fl in bndg locly from 101.90 m to 103 m, up to 5%, associated with bsn/prs/REflc, finely bnded.</p> <p>w dol patches/clusters from 104 m to 105.50 m, nearly devoid of mineralization, up to 5 cm.</p> <p>bio ± chl patches common from 103.40 m to 104.90 m.</p> | <p>foln (TCA) 85 m=15° 89 m=15° 98 m=20°</p> <p>foln (TCA)102.75 m=25°</p> | | <p>109.50 m- 171.16 m</p> | <p>170-230</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>fl patch at 104.80 m, 5 cm, dk p, fl ~85%.</p> <p>more fine bndg from 105.60 m to 106.75 m, bns/prs diss in bnds (no fl), this zone free of bio. mtx pale y locly, some bnds but especially at 106.50 m to 106.68 m.</p> <p>@111 m - couple qtz vns (one 4 cm wide) x-cut Carb. below, sharp text change - from more uniform looking Carb to blotchy Carb with few % bio weaving through.</p> <p>below 111 m - blotchy/mottled text common, dol grains/r clusters with bio locly weaving around them, bsn/prs fairly common in mtx although trace continuously wkly bnded/fol with fl in bnds locly. (<few %)</p> <p>@ 120 m - ellipsoidal w dol patch, 10 cm long, follows foln below, cuts across foln above somewhat rim of bio all around <1 mm thick small sul? clusters locly within, <1% bsn/prs diss <few % and clustered locly at edges <5% ± trace fl.</p> <p>slight increase in bsn/prs from 119 m to 123.30 m and 130.80 m to 142 m. these sections typically have mtx mod pk (5R 7/4) to mod r, and fl diss locly (mostly <few %, but up to 5% at 122 m).</p> <p>late stage Carb dyke at 104.55 m, f.g., pale ol. more late dykes from 122.20 m to 123 m, similar colour, grain size, fairly uniform to slight smeared text.</p> <p>123.30 m to 129.30 m - Carb is dkr gy overall, bsn/prs, mostly in a few bnds but can be found diss locly (trace). bio not overly abnt, a few patches and itsl up to 10%. gy colour likely mostly from increased f.g. suls (sph?).</p> <p>127.70 m to 128.70 m - a few late stage Carb dykes, sharp ctcs with Carb, first one has bsn/prs (fl?).</p> | <p>foln (TCA) 115.25 m=15°</p> <p>foln (TCA) 120.60 m=12° 125 m=10° 132.50 m=15° 134.50 m=15°</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@144.35 m - 20 cm sul patches - dk gy, uniform, py (euh, diss, f.g. to m.g., <20%), patch dominantly dol and sph (??) with minor small bio frags cutting through. mod-abnt bio filled frags from 143.50 m to 145.50 m.</p> <p>bsn/prs diss from 143.85 m to 145 m, individual grains and small clusters, f.g. (not v.f.g) - mtx not tinged r-pk but grains easy to spot nonetheless, 1-3% here.</p> <p>@145 m - 7 cm zone of diss fl, again evenly diss, stricly f.g. (up to 1 mm), up to 5%, trace to no bsn/prs here. a little more fl at 145.25 m.</p> <p>below fl (at 145 m), text changes, start to see sub-ang dol-carb clasts/frags (w-lt gy) with dkr (pale ol) material itsl (f.g. mtx). this looks like a well healed brc zone, continues down to 147 m, ctcs gradational above and below. bsn/prs reduced through here (trace locky) minor rare bio patches (specifically at 145.60 m).</p> <p>late stage Carb dyke x-cut at 145.15 m, 5 cm wide, pale ol-dusky y, not uniform like previous dykes, small bio frags and trace bsn/prs, smeared text.</p> <p>@145.35 m - 2 cm wide w vn, ~85% dol with pods/clsts of qtz and cc (pk) c.g. also scattered pockets of bar? (tan min, blocky/tabular xtls) with r-og rims (bladed-acicular bsn/prs?) these pockets are 5% of vn.</p> <p>150 m to 152 m - series of several small folds (m-fold?). both ends have dk gy sul bnds - f.g. suls (sph?) + dol and diss f.g. to m.g. py (euh, 5-10%) next to these is alternating w dol-Carb with diss bsn/prs and layers of weaving bio, and dk gy bio and sul bnds. (these are similar to outside sul bnds except bio ~25%).</p> <p>the layered bio in the Carb demonstrates the foln, forming "U's" in the core, most noteably at 150.60 m and 150.85 m. the fold axis (of 'M-fold') would pass through bio-sul layer at 150.72 m.</p> | <p>foln (TCA) 141.75 m=15° 148.50 m=20°</p> <p>M fold 150-152 m hinge 150.72 m top limb at 30° TCA bottom limb at 30° TCA</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>Carb more homo from 152 m to 163.30 m. It gy dol with itsl bio flecks (10%, fairly evenly diss). bsn/prs and fl diss locly, more common in bnds (up to 5%).</p> <p>bndg with bsn/prs continues down to 158 m, sporadically below. ctcs typically sharp with surrounding Carb, border may have f.g. tan-ol gr-gr, hy-therm or late dyke? bnds themselves lack bio, dominantly dol with bsn/prs in mtx <1%, 10-50 cm long. may have fl associated locly, f.g. diss <5% bio has variable abundance/character below 158 m, typically 5% or over commonly 'weaving' around/itsl to dol but locly individual diss grains (core is dkr here).</p> <p>@159 m- late stage dyke x-cut core, pale ol, colloform/layered, aphantic, with REflc. inside this is ~10 cm dol vn, m.g. w, irregular ctc with surrounding dyke. <<1% diss mins.</p> <p>159.60 m to 160.10 m - gr-gy patches stick out. these are bio contrasting against w dol layers/foln. largely overprinted (at either end and in middle - hy-therm altn? evidenced by colour change, absence of bio/suls in overprinted parts and presence of bsn/fl ctcs of overprinting/altn somewhat diffuse.</p> <p>163 m to 170 m - late stage dykes x-cut locly (not common), <3 cm wide, typically abnt dol with smeared REflc <1%, ctcs sharp (defined by r line of REflc?). minimal pale ol material (not typical dykes!)</p> <p>163.30 m to 171.16 m - Carb still fairly homo/consistent, except little to no bio (<5%), mostly f.g. diss, minor clusters, → + suls. not weaving around dol as preveious overall rock is ltr gy to r due to increased bsn/prs these commonly forming clusters up to 1 mm ~5%.</p> <p>@168.15 m, ~10 cm w dol patch, w, trace diss bsn, bio clusters and strands ~15% surrounding, filling fracs. bio elevated (5-10%) in Carb ~50 cm following.</p> | foln TCA 155 m=30° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 171.16 | 181.10 | dol-Carb | | <p>ap continues to be ~5% (<<20%), extremely variable distribution - ranges from f.g. in mtx and v. consistnt to concentrated in clusters and bnds locky (following foln).</p> <p>lower ctc is sudden but not strictly sharp, some gradation.</p> <p><u>bio dol-Carb</u></p> <p>lt gy-dk gy</p> <p>f.g. to m.g. dol xtls, f.g. bio.</p> <p>hetero, patchy-blotchy text, dominated by bio clusters.</p> <p>bio mostly forms patches and clusters, up to 30% locky locky + suls, but is also found itsl/weaving around dol.</p> <p>MODAL MINERALOGY</p> <p>dol: 85%; bio: 10%; ap: 2%; py: 1%; sph: 2%; fl: trace; bsn/prs: trace</p> <p>bsn/prs reduced in core (locky none, core not r), Carb lt gy with abnt dk gy patches, still can be trace diss ± clusters (not 'BD' zone).</p> <p>occasional qtz pockets.</p> <p>175.60 m to 176.30 m - diss fl blebs ± REflc along fold/bndg, up to 10% locky, reduced bio, dol clusters common.</p> | unit possibly in the hinge of m scale fold. | 171.16 to 181.10 | 200-250 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|------------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 181.10 | 257.00 | dol-Carb | | <p>176.78 m to 181.10 m - bio patches reduced, core not as dk gy, diss bio patches now mostly <1 cm (locly bio and py patches up to 10 cm), bsn increasing (diss more commonly, <1%), gradational text changes continue...</p> <p>wk-no foln below ~160 m to end.</p> <p>late stage dykes? x-cut locly, not common, < few cm, gr, f.g.</p> <p><u>dol-Carb</u></p> <p>r-pk bsn/prs (mod r-pale r-br to mod pk), lt gy dol ap , violet fl (v.dusky p (5P 2/2)) colour v. mineralogy dependant.</p> <p>mod to str bnded/fol. bndg defined by layered bsn/prs/fl/dol/bio (not common)/ambl (amph, rare!, b-gr, f.g.)/ap (variable distribution!).</p> <p>MODAL MINERALOGY</p> <p>dol: 91%; bsn/prs: 2%; fl: 3%; ap: 3%; amph: trace; bio: 1%; suls: trace</p> <p>ibd "BD"-zone sections common especially to 25 m - bsn/prs highest concentration here.</p> <p>f.g. gy-gr bnds/patches locly typically have increased py, up to few %, colour of core possibly due to this.</p> <p>184 m to 184.15 m - patches of b-gr min - amph?, <2 cm, grains are elongated-acicular, ambl-like xtl faces, f.g. to m.g. formed along x-cut bnd with w dol and qtz pockets.</p> | | | 181.10 to 257.00 | 200-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mtx y from 184.50 m to 185.30 m → variation in carbonates? presence of f.g. nb-rutile or bar?</p> <p>185 m to 185.25 m - possible fault? (well healed and cemented...) text changes across ctc, top fairly homo with evenly diss f.g. bsn/prs, minor suls; bottom side has w dol along ctc, increased qtz (up to 15%), bsn/prs slightly increased and forms larger clusters, gr late stage dyke running along CA is cut off abruptly at ctc, minor diss bio (<few%).</p> <p>below 186.90 m - fl patches locly (increasing down), typically fl diss but concentrated in patches or diss in bnds 5-15% locly. bsn/prs increasing below 184.50 m - return to r sections of core (ibd "BD" zone).</p> <p>Carb is consistently mod-str fol/bnded below ~186 m. bndg defined by layered bsn/prs/fl/fol/non-common bio/rare, b-gr, f.g. ambl (amph)/ap (variables).</p> <p>bnd running ~along CA from 188.50 m to 189.25 m, slightly wavy/underlatory, late dyke/vn x-cut? layered pk (bsn/prs+dol+qtz?+fl) vs. lt gy-y (dol).</p> <p>dol bnd/patch aty 189.35, 35 cm long, fairly sharps ctes (diss bio and suls) ~100% dol with trace bsn specs. dol is f.g. to m.g., may form clusters smaller dol bnds below,uncommon.</p> <p>bsn/prs from 193 m to 205.50 m is commonly up to 5%, forms dk r clusters but also f.g. diss in mtx.</p> <p>foln TCA 191.75 m=15° 194.50 m=22° 201.30 m=10° 206.20 m=15° 209 m=5° 219 m=20° 226 m=35°</p> <p>fl particularly abnt from 205.65 m to 211.30 m (up to 15%, itsl to dol) and 214.40 m to 215.70 m (up to 20% diss blebs) and 218 m to 220.70 m (up to 15%, diss blebs and itsl to dol).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 257.00 | 296.79 | | | <p>below 205.50 m - bsn/prs reduced, barren dol patches and bnds (+ ap locly) are v. common between fl bnds. these may have <few % diss bsn/prs+bio+py locly.</p> <p>226.30 m to 245.30 m - bndg not as strong as above. through here text/mineralogy fairly homo/consistent, bsn/prs and fl diss evenly ~few% with occasional concentrated patches.</p> <p>241 m to 241.50 m - sub-ang to sub-rnd dol clusters/clsts locly, up to 2 cm - overprinted ctsc text?</p> <p>@243.30 m - 12 cm smeared bnd - late stage Carb dyke? sheared?? v.f.g. trace fl+REflc layers at edges, centre mostly w-y.</p> <p>245.30 m to end - bndg wk-mod with non-foI sections locly (typically mottled text). only rare fl locly, bns/prs remains fairly common to end (up to few %).</p> <p>248 m to 249.10 m - bnds with euh dol pbl locly running ~10° TCA, up to 3 cm wide, fl ± REflc highlighting dol xtls (up to 8 mm)</p> <p>gradational lower ctc, bndg/foIn stops, bsn/prs+fl reduced below.</p> <p><u>dol-Carb</u></p> <p>pale gr-y (10Y 8/2) - lt gy-w with p patches.</p> <p>unit overall more homo than prev units, mottled text prevails, wkly fol only locly.</p> <p>f.g., dol xtls can be m.g. also (mostly f.g. though)</p> | | | 257 to 297 | 150-220 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>MODAL MINERALOGY</p> <p>dol (other carbonates?) 97%; ap 1%; fl 2%; bsn/prs trace; suls trace</p> <p>this unit or sections of it look like a variation of B-Zone.</p> <p>diss bsn/prs common down to 272 m, typically trace but locly up to 5% (268.25 m, 269.70 m, 270.70 m). f.g., may form clusters (mod r-mod r-br).</p> <p>below 272 m - bsn/prs stops/not seen.</p> <p>from top to 273 m - text not as strongly mottled, ltr gy (not y) w dol grains/clusters common (rextld?) locly minor fracs with bio and sul infill.</p> <p>py clusters/pockets up to 1 cm common from 259 m to 259.50 m, up to 5%.</p> <p>257.78 m to 258.53 m - ibd glim, sharp ctcs to Carb, minor bio fracs in Carb near ctc. Glim is dk gy, uniform, f.g. bio 70%, dol 30%, trace py. this section mostly broken.</p> <p>273 m to end - fl patches common, up to 15% locly, mostly <10 cm but up to 20 cm. locly fl infilling small pockets, fracs.</p> <p>below 273 m - Carb str mottled, mtx more y-gr than above. dol clsts/clusters continue to end.</p> <p>talc+chl fracs and patches locly, lt gr. can be quite abnt making core gr.</p> <p>282 to 292 m - br mineralization locly - REflc? may be associated with fl, small clusters, trace.</p> <p>mod-str fracd locly below 277 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 296.79 | 331.17 | dol-Carb | | <p>late stage carb dykes x-cut locly from 282.50 m to end, <2 cm, aph, uniform, pale ol-gr.</p> <p>283.50 m to 284 m, 285 m to 286 m, 287.25 m to 288.90 m - carb finer grained and more uniform - mottling faint, reduced - no fl, only minor fracs.</p> <p>brc text (minor bnds, well healed) from 292.50 m to 293 m. lt gy Carb clsts with similar mtx.</p> <p>gradational lower ctc, no fl below, text change.</p> <p><u>dol-Carb</u></p> <p>lt gy, slightly gr, also y-gy (5Y 7/2).</p> <p>mass, fairly homo, patchy-somewhat mottled, minor brc sections.</p> <p>f.g.</p> <p>MODAL MINERALOGY</p> <p>dol (other carbonates?) 94%; ap 3%; bio 1%; suls 2%; fl trace; chl trace; talc trace</p> <p>unit starts with gradational upper ctc. text quickly becomes more uniform/mod mottles). fl absent, except minor individual blebs/pockets (esp. top down to ~306.50 m, up to 1% locly).</p> <p>dol clsts/clusters common down to 299.50 m, w, sub-ang - brc or rextld? typically <1 cm. also dol may be infilling/itsl - small irregular patches snaking in opened spaces, seen down to 303 m, may have small qtz core. small fracs common throughout, typically infilled with talc ± chl (gr) or sometimes bio ± suls (br).</p> | | | | 100-200 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>dk gr dol+sul±bio patches locky, up to few cm, v.f.g. and harder than Carb due to suls (up to 10%?). bio may be present but not always. also form smaller gr bnds.</p> <p>locky the Carb is more homo/uniform - no fracs, dol clsts, sul patches, brc zones etc... grades in and out.</p> <p>ap in unit (bright b-w under UV) mostly in bnds and clusters although locky can be found in mtx.</p> <p>heavily fracc - brc zones common from 314 to 320 m. fracc/mtx commonly infilled with suls ± bio. Carb/clsts v. ang, not moved far - same as adjacent Carb.</p> <p>312 m to 312.50 m - homo with faint mottled text, lt br min present, blends well with fol - brn mixed in?</p> <p>cr dol vn x-cut from 317.40 m to 317.70 m, along CA, fl pockets within locky, <1 cm wide.</p> <p>a few small brc zones at 325.40 m, 331.60 m, these well healed, clsts w dol-Carb (different than adjacent gr Carb).</p> <p>patchy text common below 319 m.</p> <p>@329.75 m - couple cr-pale pk patches - xenoliths? dominantly fsp/fspathoid? harder than surrounding Carb. possibly being altd/replaced, lt gr spots at centre.</p> <p>along with patchy text below 319 m, Carb more y-gy, slight increase in fl.</p> <p>gradational lower etc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 331.17 | 353.77 | dol-Carb | | <p><u>dol-Carb</u></p> <p>y-gy to lt gy with cr-w and p.</p> <p>text homo, patchy-wkly mottled. f.g.</p> <p>MODAL MINERALOGY</p> <p>dol (and other carbonates) 96%; ap 1%; fl trace; suls trace; tan RE min? trace; po trace; ilm trace; amph trace; qtz 2%; REflc</p> <p>top couple m is very uniform/mass, patchy-mottled text is dominant below 334 m.</p> <p>tan RE min starts below 332.23 m, diss up to few % locly, highest concentration at 332.23 m to 332.65 m. associated with fl locly. v.f.g., typically 2.4-2.8% TREE on XRF.</p> <p>small b-gr amph clusters near 332.40 m, f.g., acicular, may be associated with tan RE min.</p> <p>fl blebs appear ~333 m, increase up to 5% locly, form small patches. remain common, not abnt, for entire unit. may have small REflc blebs (trace).</p> <p>5 cm brc bnds at 331.60 m and 334.50 m cr-w dol-Carb clsts, rnd to sub-rnd, gy-gr-bl mtx.</p> <p>diss suls locly throughout, f.g. larger concentrated patches (up to few %), typically py, sph rare ilm locly diss with py, up to 2%.</p> <p>more amph at 342.30 m, 5 cm patch, up to 10% +5% py.</p> | | | | 120-190 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 353.77 | 374.43 | dol-Carb | | <p>small qtz vns locly (rare), mostly qtz is v.f.g. in mtx.</p> <p>@336 m - 10 cm zone of fracg with minor-abnt fl infill - early hy-therm brc?</p> <p>more fl + REflc frags below 343 m, minor, reduced down.</p> <p>text changes from 346.20 m to 350.10 m, v.f.g. lt gy uniform bnds/patches x-cut - late stage vns? may have y-gy Carb clsts within where gy 'vns' not present Carb either fracd with suls and amph or well healed psd-brc with blotchy cr 'clsts' locly. small gr amph patch at 348 m and from 348.60 m to 349.30 m, amph+po+py (<5% each) clusters v. common, following small frags and larger clusters along c.g. dol vn (349.05 m to 349.25 m) (xtls up to 2 cm).</p> <p>349.40 m to 350.10 m - uniform gy rock with small frags common (py+ilm? fill).</p> <p>350.10 m to end - patchy-mottled text dominant, fl slightly increased.</p> <p>350.80 m to 351.10 m - med gy bnd x-cut, similar to gy zone as described above, small clsts/frags within (diffuse boundaries).</p> <p>352.35 m to 352.85 m - Carb much ltr, more y, reduced fl.</p> <p>sharp lower ctc, Carb v. brc below.</p> <p><u>dol-Carb</u></p> <p>med gy overall, but can be lt to dk gy. rare y-gy patches.</p> <p>dominantly brc with non-brc mottled sections scattered throughout (these <1 m long). f.g.</p> <p>MODAL MINERALOGY</p> | | | | 150-220 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>dol 97%; amph 1%; mag trace; py 1%; other suls trce; ap trace; qtz 1%</p> <p>both ctcs sharp, abrupt ending of brc. within this unit there are short pauses but rare-no brc outside of ctcs.</p> <p>for all brc sections, clsts are ang. mostly similar to adjacent non-brc Carb, variable size up to few cm. loclly some clsts are y-gy (slightly r? - trace REflc?) clsts dominate, often touching, mtx loaded with suls, mag, amph.</p> <p>fracs loclly present moving away from brc zones.</p> <p>the brc at top ctc only continues down to 354 m, moves into y-gy-cr-w mottled Carb as prev unit. (354 m-356.49 m) small fracs and diss amph (up to 3%) from top down to 354.25 m.</p> <p>silica pockets loclly 355.15 m to 356 m, with amph and py diss. pocket at 355.15 m has tan min within - RE min?</p> <p>small fl patch at 355.25 m, ~1%.</p> <p>qtz fracs and small pockets 356.20 m to 356.49 m, w dol rims.</p> <p>359.66 m to 360.50 m - amph major component of mtx, ~5% with clusters loclly up to 1 cm. py+mag also common, up to few % each , mag+py common in most brc sections.</p> <p>qtz pockets found throughout, abnt from 364.85 m to 365.25 m, tan-og min along edges here RE min?</p> <p>below 360.50 m - amph distribution not consistent, loclly diss and in small pockets, but not as dominant in mtx as above. amph is f.g. b-gr, acicular.</p> | | | | |

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|-------------|-----------------------|-----------|---------------------|---|-----------|---------|-------------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 374.43 | box 80%? 407.61 | dol-Carb | | <p>more tan-og min around clsts at 372.75 m, small clusters ~1%, increased amph here too.</p> <p>mag in mtx sections is diss, individual xtls not clusters. suh-euh, octahedra, blk-gy met, f.g., typically 1-3%. most abnt 359.66 m to 361 m and 366.50 m to end.</p> <p><u>dol-Carb</u></p> <p>MODAL MINERALOGY</p> <p>dol (and other carbonates) 98%; fl 1%; py 1%; ap trace; amph trace; sph trace; mag trace</p> <p>pale ol to y-gy to mod y</p> <p>mass, fairly homo, faintly-str mottled text dominant, may be patchy-blotchy locly. minor brc sections. f.g.</p> <p>this unit similar to that above brc unit, more hetero 'B'-zone or similar.</p> <p>cr-pale y and mottled with fl patches scattered. fl not common at top.</p> <p>py (f.g. to v.f.g.) diss throughout, v.f.g. sph? in mtx where Carb has gy bnds/patches.</p> <p>creamy vs. y-tan patches variation in carbonate?? dol vs. brn? gr. size difference? accesory mins? (bar, rt...).</p> <p>dkr sul seen locly (with py) - po or chp? finer grained than py, anh (i.e. at 375.85 m and 378.40 m) amph diss with suls locly.</p> | | | 374.43 m to 396 m | 130-200 |

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|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 407.61 | 548.64 | dol-Carb | | <p>amph f.g. b-gr acicular xtls, small diss patches up to few % locky. (ie at 377.30 m, 392 m-diss in brc zone).</p> <p>379 m to 379.40 m - smeared text (schl?) with pale ol surrounding stretched cr (+fl) patches. seen elsewhere to a lesser degree.</p> <p>383.80 m to 387 m - small perv fracs and semi-brc, increased suls diss amph locky, up to 1%.</p> <p>qtz pods locky (rare), likely minor qtz in mtx.</p> <p>small lt pk patch at 395.75 m - minor Mn in dol?</p> <p>fl starts increasing below 391.40 m - small patches and pockets. below 396.25 m - fl patches typical, up to few % locky.</p> <p>Carb more patchy - brc 391.60 m to 394 m.</p> <p>locky wkly bnded 396.25 m to 403.50 m, p vn y vs gy bnds. likely foln, but could be fluk (sp?) orientation of patches. fairly consistently 35-40° TCA though.</p> <p>397.65 m to 398.20 m - bndg also traced by thin strips of fl py ambl (p!) Reflc ukln dk br min, each <1%.</p> <p>brc bnd from 401.10 m to 401.50 m, clsts similar material to adjacent Carb (cr-y, haven't moved far) mtx med gy, uniform, f.g., small py fracs running through locky sharp ctcs.</p> <p><u>dol-Carb</u></p> <p>gy to y-gy with cr and p patches. gr traces/fracs and specs locky.</p> | | | 396 to 420 | 150-250 |

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|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>unit is broken out due to significant but gradational texture change - its hetero, varies from strongly mottled to blotchy/patchy to psd-brc to brc, more homo sections locally. f.g. to m.g.</p> <p>MODAL MINERALOGY</p> <p>dol 98%; fl trace; py 1%; mnz trace; qtz 1%; amph trace</p> <p>semi-brc fraced text starting at 407.61 m, gy-b (minor ltr gy-cr, mostly 'clsts'). sharp upper etc. no fl through this section, not y nor mottled like rest of unit.</p> <p>409.50 m to 416 m - gradational text transition back to mottled Carb with fl.</p> <p>Carb through this transition is gy homo - somewhat mottled.</p> <p>small clusters/pockets of amph locally (common), as are small py frags, small qtz pockets (rare).</p> <p>a few tan min clusters at 415.30 m, 1%.</p> <p>bio pockets near 412.15 m, <2 cm, vug fill?</p> <p>416 m to 418.70 m - y mottled Carb with fl patches (B zone type) continues. sharp lower etc.</p> <p>pale gr-y (10Y 8/2) vn x-cut at 409.40 m, aph, uniform, <1 cm, only child.</p> <p>417.58 m to 418.50 m - qtz and amph vns cutting Carb, typically parallel TCA, <1 cm wide, m.g.</p> | | | | |

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|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>418.70 m to 419.60 m - med gy brc? zone, minor small frags/clsts scattered (dol-Carb). qtz and dol vn running ~along CA for most of it. top ctc sharp, lower one gradational/continuous - psd-brc/mottled text below, continues down to 423.25 m with intermittent med gy uniform sections locky. frags through here common, infilled with py-amph locky.</p> <p>below 423.25 m - intense mottled-healed/rextld psd-brc text, not homo as upper part of unit. (hetero!)</p> <p>w r dol grains common (m.g.) with y-gy f.g. mtx.</p> <p>peculiar fl patches scattered about, up to 5% locky, ± trace REflc locky. small blebs and frac fill as well as forming in or around old clsts (?), fading/decreasing out locky (428.70 m).</p> <p>minor frags throughout, fl or qtz or REflc? (br) fill locky.</p> <p>f.g. gy bnds locky, rare, x-cut dykes?, may have diss ambl locky. fairly uniform, typically sharp ctc: with Carb 429.25 m to 453.50 m. bnds lower down have increasingly variable ctcs, branching out into Carb with some frags/clsts surrounded. py/fl?/REflc? locky diss within, <few%.</p> <p>below 423 m - minor late stage Carb dykes x-cut locky, ol-gy to y-gy to tan, <few cm wide, smeared text, may have fl and REflc (trace). large one at 450.10 m.</p> <p>@432.82 m - <1 cm w-pk (translucent) vn, dol with minor qtz.</p> <p>other qtz vns scattered in Carb, uncommon.</p> <p>wkly fol 436-440 m.</p> | | | 420-end | 150-350 |
| | | | | | | | 432 to - | 150-250 |

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|-------------|-----------|-----------|---------------------|--|--------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>444 to 448 m - gy bnds/dykes (as mentioned above) are actually small brc pipes, abnt small Carb clsts within.</p> <p>tan to dk br min diss locky 433-439 m, typically trace-2%, esp. abnt 438.35 m to 438.85 m.</p> <p>mineralization of mnz 433 m-439 m</p> <p>clusters up to 10%. dk br, resinous, 4.5-5.5% TREE, locky has tan-og min grains associated - brn? Nb-rt? other RE min?</p> <p>below 440 m - mottled text/brc subdued, fl decreased. cr dol blotches common - rextld? small frac and late stage dykes common.</p> <p>mnz? still diss locky/small clusters, also locky with fl (450.70 m), mostly trace but locky up to 1%.</p> <p>amph + sul patch at 453.35 m; amph green, f.g., some acicular xtls, up to 20%; py suh-euh ~5%, ±po (wkly magnetic). og-br min grains locky, trace RE min? amph patches/diss common below 453 m.</p> <p>below 454 m - mtx more gr-gy - dusky y-gr (5GY 5/2) to gy-b-gr (5BG 5/2) not y, although cr-y-gy dol blotches and patches still common, decrease down.</p> <p>fl+REFlc pockets 454.50 m to 454.75 m; locky 5%. more diss 459 m to 460 m, ~1%.</p> <p>466 m to 472.50 m - Carb is mottled-blotchy (psd-brc?) and multicoloured - gr-y-bl-r-p bsn f.g. in mtx locky, trace (r-br Carb). cr dol blotches common, scattered rextld?</p> <p>og-br min cluster locky, common 467 m to 483 m, up to 5%. may be few different mins, colour changes og-br to og to r-br to pale br REflc + mnz? these associated with amph locky, xtls can be m.g. and 5%.</p> | foln TCA 439.75 m=35° | | | |

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|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@472.44 m - Carb fragmented, infilled with mag (30%), amph (30%), py (5%), REflc? (og, 10%), qtz (25%), all f.g. small frags below in Carb, similar fill.</p> <p>476 m to 486 m - mottled/blotchy sections ibd with gy homo sections that have mod frags. gradational text changes. frags filled with amph, qtz, chl, REflc?</p> <p>suh dol pbl diss 482.45 m to 482.75 m, m.g. to c.g. itsl REflc? 1%.</p> <p>mag xtls diss 485.35 m to 486.90 m, blk, met, suh-anh, m.g. to c.g. from 485.50 m to 485.90 m and 486.10 m, mag ~5% with similar quantity py and dol pbl, mtx largely intact.</p> <p>486.35 m to 486.90 m - mag up to 35% with 25% dol pbl and 5% py, all m.g. to c.g. , minimal mtx remaining.</p> <p>minor itsl amph below 487 m, decreases down. dkr gr, acicular.</p> <p>ltr gr itsl min common from 491 m to 493.50 m, likely talc, really soft, mostly along frags and small clusters.</p> <p>489 m to 490.40 m - y-gy-cr Carb with abnt tan-br min diss. mostly rextld? mineralization-REflc? mnz?</p> <p>fl+honey br min (REflc?) + py patches common from 490.50 m to 491.75 m, up to few % total locly.</p> <p>brc text 501 m to 502 m, clsts and mtx similar colour/composition. also many frags here with trace mag and py fl blebs ~1%, up to 5% at 501.10 m clustered with w dol+py around qtz pockets. REflc? diss locly (mod r-br 10R4/6).</p> <p>frags continue down to ~505 m, with py ± amph ± REflc ± chl ± sph, no mag.</p> | | | | |

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|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>another qtz vn/pocket at 504.45 m, minor dol and 5% f.g. to m.g. euh py.</p> <p>505 m to 506.50 m - hetero patchy text, likely rextld brc (clsts visible locly). REflc (mod r-br patches and diss mins) v. common but <<2% minor fl also, small blebs and pockets locly.</p> <p>506.50 m to 508.50 m - somewhat homo section, lt-med gy with ltr gy patches, f.g. diss mins throughout (REflc? py, sph?, all trace) increased v.f.g. qtz in mtX? few qtz pockets at 508.10 m.</p> <p>508.50 m to end - heavily fractured and brc, some mass (non-brc/fracd) med gy sections ibd. mins infilling fracs and mtX include fl, py, REflc (gr and p). dol-Carb clsts/fragments mostly lt gy-pale y-gy.</p> <p>fl increases below 540 m. 535.50 m to 536.50 m- Carb is very uniform, mass, gy-y to y-gy, with mod widely space fracs cutting through, mostly fl fill.</p> <p>fl below 540 m to end forms patches, abnt up to 5 cm, typically gy-p (faded/smeared), dkr blebs locly (higher concentration). REflc typically associated. fl patches all >2.5%. TREE (lights) fracs down to bottom still commonly contain py/chl.</p> <p>mass, homo section from 543 m to 544.25 m, limited-no fracs, no fl patches (only minor blebs locly). amph pocket/frac at 543.20 m, 15 cm, needle xtIs up to 1 cm.</p> <p>fl and REflc? also diss between patches, up to few %.</p> <p style="text-align: center;">EOH</p> | | | | |

Handwritten signature
06Q 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|---|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 535771.97 | Drill Company: Cartwright Drilling Ltd. | Date Started: Apr 29, 2011 | Downhole Survey: Yes |
| Expl. Area: Triple-D | Northing (m): 6313617.83 | Rig Type: CDI 500 | Date Completed: May 02, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 1007890 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 252° | Core size: BTW | End of Hole: 289.26 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -50° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 6.34 | 15.66 | Si-Carb | | <p><u>Si-Carb with interbedded Glim:</u></p> <p>dk gy-med gy bnds dominate, cr/w/lt gy patches and bnds throughout.</p> <p>hetero, patchy, Glim sections commonly wkly-mod fol. small frags or itsl pockets common f.g.</p> <p>modal mineralogy: bio/phl: 35%; dol: 40%; qtz: 20%; py: 2%; other sul: 1%; ap: 2%.</p> <p>first 20 cm is rubbly rnd pebbles (ovb), but core quickly turns competent.</p> <p>Carb lt-med gy at top, mass with common bio frags. w-cr dol blebs/clusters lower down.</p> <p>ibd Glim starts below 7 m, immediately dkr gy-blk. 'Glim' sections range from 30-80%, dol commonly itsl, but difficult to discern. foln varies from 45-75° TCA. qtz pockets/frags common throughout interval, near and within Glim - remnants of country rock? Carb sections/patches also commonly enriched in qtz. harder than usual (not visible... in mtx). qtz pockets commonly wrapped by bio/phl, appear dkr.</p> <p>7.20 to 8.40 m - all Glim not orderly and fol, at 10 m and minor elsewhere Glim is patchy with irregular ctc and swirly layers of bio. qtz pockets most abnt throughout these parts.</p> <p>most ibd Carb is lt to med gy due to presence of minor diss f.g. bio sul? and qtz in mtx, typically <15 cm bnds.</p> | | | | |

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| | | | | | | | DEPTH (m) | CPS |
| 15.66 | 36.50 | dol-Carb | | <p>cr-w dol-Carb patches at 9.60 m, 10.90 and smaller below, blotchy, re-xted?, slightly coarser grained.</p> <p>11.35 m to 13.20 m - mostly lt-med gy Carb with thin bio layers/strings.</p> <p>@13 m - 20 cm frac along CA with rusty wthd surface (~1 cm thick), hem/lim?</p> <p>hetero to end with variable bio, dol, qtz.</p> <p>py common in Glim (1-2%), also fracs/pockets locly filled with py.</p> <p>lower ctc based on reduction of bio/Glim.</p> <p>ap concentrated in zones of reduced diss bio (5-10%), typically f.g. in mtx, up to 20% locly.</p> <p><u>bio ap qtz dol-Carb</u></p> <p>y-gy-cr and lt-med gy, locly pale ol dk gy-blk patches locly (bio/Glim), abnt lower half.</p> <p>most of Carb is homo, mass, locly faintly mottled. Si/Glim patches minor upper half, common - abnt lower half - hetero.</p> <p>Carb f-m.g., glim f.g.</p> <p>modal mineralogy: dol: 70%; qtz: 15%; bio/phl: 5%; ap: 10%; fl: trace; py: trace.</p> <p>top to ~24.38 m - Carb is dominant with dk gy patches locly (esp. 19.65-20.10 m), these are qtz-rich (altd country rock?) with bio/phl rims. mostly <5 cm, up to 25 cm below 21.75 m. also minor fracs, bio py filled (REflc locly? r-br min in frac at 17.10 m).</p> <p>minor fl 'fog' around Si frags at 19.70 m.</p> | | | | |

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|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 36.50 | 50.81 | | | <p>24.38 to 33.85 m - si-rich frags common, sections up to 90 cm, typically individual frags < few cm, ang, br-dk gy (med ol-br 5Y 4/4) rimmed with bio and grouped together into larger patches/sections. bio increased in lower patches (up to 30% locky), these with irregular ctc, Carb stringers cutting through locky (sinuous).</p> <p>pale ol Carb mostly finer grained (gdmass), ltr dol clusters locky within, coarser grained (rextld?) psd-brc?</p> <p>qtz in Carb as prev unit - in mtz locky?, not visible but Carb harder.</p> <p>ap common in Carb mtz throughout, f.g. diss, b-w under UV.</p> <p>33.85 m to end - return to homo mass Carb, minor/rare qtz bio patches/fracs.</p> <p>gradational lower ctc, dramatic increase in qtz bio.</p> <p><u>silicified altd WR</u></p> <p>dk gy-blk, minor lt gy patches and seams. minor cr-pale pk sections.</p> <p>hetero, dk gy sections typically fragd/brc with x-cut Carb stringers. silicified Carb is more homo, wkly bnded? f.g.</p> <p>modal mineralogy: qtz: 50%; dol: 29%; bio/phl: 19%; ap: 2%; py: trace.</p> <p>top down to 41.40 m is dominantly qtz clsts/frags up to 5 cm clustered together with itsl bio-dol py. bio here varies 10-80% (dk colour). minor itsl dol but also common lt gy Si Carb patches and stringers.</p> <p>41.60 to 44.90 m - ibd ap Si Carb. this is lt gy-cr-pale pk, fairly mass but faint coloured changes in strips/bnds. gradational ctc at both ends with fragd qtz rock, 10-20 cm, qtz + bio increase... ap 5-15%, patches up to few cm. qtz in Carb 30-50%, mostly in gdmass. qtz patches locky, pk zones have abnt qtz (pk qtz or pk carbonate surrounding?) zones of itsl bio and qtz frags rimmed with bio locky, <40 cm, <20%.</p> | | | | |

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|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 50.81 | 56.39 | dol-Carb | | <p>44.90 m to end - rock heavily silicified, minor bio (itsl, frags, lining Carb strips). rare ibd Si Carb patches, heavily silicified.</p> <p>49.50 m to end - core is pale p-gy - >90% mass qtz with 5% dol and trace py, ap 5%.</p> <p>lower ctc gradational, qtz br and fracd by tan dol.</p> <p><u>ap qtz dol-Carb:</u> w-lt gy, minor/rare dk gy patches. fairly homo, loclly brc/fragd f.g.</p> <p>modal mineralogy: dol: 74%; ap: 10%; qtz: 15%; bio/phl: 1%; py: trace; bsn/prs: trace.</p> <p>ap and qtz in gdmass, not visible, variable through unit, slight colour and text changes.</p> <p>minor bio + py diss and frags loclly.</p> | | | | |
| 56.39 | 112.00 | Si-Carb | | <p>52.48 to 53.15 m - qtz frags/clsts with surrounding bio, py clusters up to 5%. qtz frags up to few cm, 50%.</p> <p>below 54 m - rare itsl r mineralization loclly, trace bsn/prs?</p> <p><u>bio Si Carb with ibd silicified WR and Glim</u></p> <p>dk gy-br with lt-med gy Carb patches and sections.</p> <p>hetero, mix of patch/fragmented/brc sections with homo/mass Carb sections. Carb stringers and dykes.</p> <p>f.g., Carb loclly m.g.</p> | | | | |

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|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy: qtz: 35%; dol: 44%; bio/phl: 18%; ap: 3%; py: trace; other sul: trace; mag: trace.</p> <p>entire unit is a mix of qtz frags (as seen higher up) with bio itsl; Glim bnds/patches, and silicified Carb.</p> <p>top to 63.25 m - Carb is dominant rock type, typically lt gy but minor dkr gy. mass; ap 10-15% in gdmass (qtz?) bio + py frags locly, minor carb sections up to 1.8 m with Glim and fragd qtz sections up to 50 cm long.</p> <p>Glim and frags mostly form irregular patches down to 58 m, with many Carb stringers then more compacted Glim with qtz frags locly down to 59 m, still itsl dol and minor Carb patches. more qtz + bio rock 60.78 to 61.40 m, rest is Carb.</p> <p>63.25 m to 91 m - dominantly fragmented - brc qtz with itsl bio (up to 40% locly). minor lt-med gy Carb patches/stringers and occasionally sections up to 150 cm (same med gy mass, commonly with irregular Glim patches) dol also itsl in fragmented sections up to 30% Carb has ap (5-15%) and qtz (<10%) in gdmass.</p> <p>Carb section at 73.50 m has somewhat blotchy text - rextld grains?</p> <p>77 m to 81.52 m - Glim/qtz rock more fragd, qtz mostly <1 cm, bio and dol increased.</p> <p>81.52 m to 85.50 m, Glim/qtz rock sections commonly more mass/compacted, gy-br, only minor bio and cutting Carb dykes.</p> <p>85.50 m to 86.50 m - small gy-br qtz blebs in Carb, Carb is dkr and harder, laced with bio.</p> <p>patches in Carb below 86.50 m are now more commonly just bio (as opposed to qtz with some bio) although qtz frags continue to end locly.</p> <p>91.90 m to 92.35 m - dk gy clusters are mag, up to 2 cm, sub-ang, 35%. py (euh) + po diss here up to 10%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 112.00 | 127.00 | - | | <p>92.35 m to 94.55 m, 98 to 102.20 m - almost all Carb, pale y-gy, uniform, aph, ap 10-25%</p> <p>100.10 to 101.10 m - Carb coarser grained with more variable text (increased variation in mineralogy), ap 30-60% gy Glim patches locly.</p> <p>94.55 m to 98 m - Carb is med gy, pale y-gy patches and vns locly. gy due to common diss bio (up to 15%, v.f.g.) and increased qtz? (locly harder).</p> <p>102.20 to 105.10 m - dominantly dk gy bio patches/clusters with itsl dol, locly qtz frags wrapped in bio (rare), Carb vns and patches common.</p> <p>105.10 m to 109 m - Carb more common, bio patches (± qtz frags) <20 cm locly.</p> <p>102.20 m to 108.50 m - gr (lt ol - gy-ol) patches in Glim zones common, up to few cm. f.g. anh mush - dio? (H = 5.5-6). altd?</p> <p>109 m to end - patchy Glim, ex-qtz frags locly (now bio) itsl dol common (25%), diss py, euh, up to 5%. med gy f.g. uniform Carb bnd 109.50-109.85 m, qtz blebs visible within.</p> <p><u>ap dol-Carb</u></p> <p>lt gy-y-gy, locly p, minor dk gy patches.</p> <p>psd-brc - mottled, hetero (variable text and mineralogy) f.g.-m.g., locly c.g. bnds</p> <p>modal mineralogy: dol: 84%; ap: 5%; qtz: 3%; fl: 3%; py: 1%; bio/phl: 3%; ukn min (tan, opaque clusters rt/bar?): 1%.</p> <p>upper and lower ctc of unit gradational.</p> <p>first 30 cm is lt-med gy Carb, blotchy - mottled, then f.g. bio 5-10% in small frags and strings, minor patches locly, qtz frags uncommon down to 113.65 m and rare bio-py frags and patches down to 115.50 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 127.00 | 144.89 | - | | <p>115.50 to 117.90 m - lt gy Carb, looks translucent (qtz in gdmass? no ap), aph, w c.g. dol clsts/frags common - psd-brc text locly. also tan opaque ukn min - brittle/no-rt? up to 5% locly. py clusters locly, up to 5%.</p> <p>@116.90 m - diss bio (10%) and f.g. tan-br min (trace, REflc/RE min? bar?)</p> <p>117.90 m to 119.60 m, 120.75 to 121.52 m - itsl fl and diss blebs, 5-15%. itsl fl forms around w-lt gy dol clusters and bands (up to few cm). py dism throughout here, up to 1% core pitted. gradational increase in fl at edges. tan patches also common, f.g., up to 10% locly (bar/Nb + rt? again).</p> <p>119.60 m to 120.75 m - Carb y-gy with minor w dol clusters locly, rare diss fl (trace). bio and py, patches and frags locly, minor. gdmass f.g. and uniform, locly mottled (increased bio and dol).</p> <p>121.52 to 124.66 m - Carb lt gy to y-gy, gdmass f.g. and unifoprnm but overall mottled - psd-brc text - many fracd w dol clusters. minor bio frags and patches, significant increase 123.20 to 124.66 m. minor tan min patches scattered.</p> <p>124.66 m to end - Carb y-gy with lt gy - w patches common - qtz increase hetero. bio py qtz patches abnt 125.25 to 125.75 m, minor elsewhere. w bnds and blebs common near end with minor bio, ap up to 75% here. 10 cm pale ol bnd at 126.80 m, finer grained and uniform, no ap + bio.</p> <p><u>silicified and altd WR and Glim with minor Carb</u></p> <p>dominantly dk gy-blk, b-br. lt gy to y-gy Carb locly.</p> <p>brc and fragd, patchy text.</p> <p>modal mineralogy: qtz: 40%; bio/phl: 35%; dol: 22%; ap: 2%; py: 1%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 144.89 | 185.47 | dol-Carb | | <p>gradational upper ctc bio and qtz patches phase in gradually, start as small patches and frags, these increase in size and abundance down. full Glim and Si-WR below 132.45.</p> <p>ibd Carb sections up to 1.5 m long (one, mostly <50 cm) between bio-qtz patches 30-150 cm long. Carb lt gy to y-gy, typically patchy, f-m.g. minor diss bio + py. ap 5-25%.</p> <p>down to 131 m - brc/fragd qtz patches also have significant bio mixed in (inside 'qtz clsts') as well as up to 20% itsl bio. py diss, commonly up to few % smaller dk patches in first couple m are mostly bio (not qtz).</p> <p>132.45 m to end - rock alternates between bio/Glim frags (blk-br) and qtz frags (b or ol-br). qtz frags hacc itsl bio up to 30%. itsl dol and dol vnlets common also, up to 25% locly.</p> <p>m.g. Carb bnd x-cut at 137.15 m, cr-w with diss bio + py (few %)</p> <p>140.45 m to 140.80 m - abnt dol/Carb vnlets, these have b-gr vitreous/translucent patches locly - ap? (bright b-w under UV and hardness 4.5-5).</p> <p>142.50 m to 143 m - ibd y-cr Carb, f.g. patchy.</p> <p>lower ctc much sharper than upper, qtz-bit quickly fades.</p> <p><u>qtz ap dol-Carb</u></p> <p>lt gy to y-gy. homo, mass, suc text, f-m.g..</p> <p>modal mineralogy: dol: 85%; ap: 7%; qtz: 5%; bio/phl: 3%; py: trace.</p> <p>top to 148.75 m - more hetero than rest of unit - more gr, bio patches and Si frags, br.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 185.47 | 202.99 | dol-Carb | | <p>below 148.75 m - Carb v. homo, consistent. qtz? + ap in gdmass, not easily discernable minor qtz pockets locally minor itsl bio locally (rare, Carb dkr) and larger frags/patches locally. also locally vuggy, bio + sul fill.</p> <p>@151.15 m - gy qtz diss in Carb, up to 25%.</p> <p>166.85 m to 167.10 m - ibd med-dk gy zone of qtz frags, minor dol patches and vnlets, sharp ctc, qtz 70%.</p> <p>@167.45 - small diss fl patches, trace (few small grains).</p> <p>167.30 to 168.25 m - core fracd/broken up. bio frac running along CA, patches locally.</p> <p>170.38 m to 173.40 m - bio patches more common, locally minor qtz frags. typically ang bio clusters < 1 cm with dol in between - broken up clsts with dol invading?</p> <p>173.40 m to 176 m - ibd Glim, mixed bio + qtz frags with itsl dol, dk br-blk bio 50-80%. sharp upper ctc, gradational lower with several Carb bnds x-cut from 175.20 m to end.</p> <p>176 m to end - Carb more hetero, locally w to lt gy dol clusters in y-gy to pale ol gdmass (psd-brc). Carb finer grained. bio patches and itsl bio common, can be qtz rich (qtz frags) and diss py up to few %.</p> <p>179.53 m to 179.80 m - dk gy Carb, appears layered due to bio seams, w dol clusters locally. sharp ctc.</p> <p>late stage Carb dykes? x-cut locally, f.g. pale ol, sharp ctc, up to 10 cm.</p> <p><u>ap bio dol-Carb</u></p> <p>y-gy to pale ol, dk br to blk patches and bnds throughout.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 202.99 | 289.26 | Glim | | <p>mass Carb, fairly homo although faint text changes are present, locly a little blotchy. Glim sections fragd.</p> <p>f.g.-m.g. minor aph bnds/patches locly (dkr).</p> <p>modal mineralogy: dol: 85%; bio/phl: 6%; ap: 5%; qtz: 4%; py: trace; fl: trace.</p> <p>Carb in this unit appears similar to above, except reduced ap + qtz, many ibd Glim bnds.</p> <p>bio/Glim patches all fragd, itsl dol/many Carb vnlets. qtz frags present locly, up to few cm, up to 70%, reduced bio where present although always itsl. py locly up to few %, may form m.g. euh xtls.</p> <p>Glim (± qtz frags) range from small patches (few cm) up to 50 cm sections with multiple bnds, one Glim bnd ~1 m (at 195.50 m).</p> <p>pale ol to lt ol-gy bnds locly x-cut Carb, not common, sharp non-planar (late stage Carb dykes) ctc, aph uniform.</p> <p>190.80 m to 194.60 m - no significant Glim intersections, only minor bio fracs mostly crossing core TCA, culminating at 192.90 m (up to 15% here with increased qtz in gdmass - Carb dkr and harder).</p> <p>199.15 to 199.50 m - evenly diss bio fleck in core, up to few % (f.g.), rare elsewhere.</p> <p>199.47 to 199.60 m - small fl patches, diss up to few % here. small pocket at 200.48 m.</p> <p><u>Glim with ibd Carb</u></p> <p>dk br to blk Glim, Carb is y-gy to pale ol.</p> <p>hetero text in Glim ranges from fragd/fracd to patchy Carb typically homo though locly mottled.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>f.g., Carb f.g.-m.g.</p> <p>modal mineralogy: bio/phl: 55%; dol: 30%; qtz: 15%; ap: trace; py: trace.</p> <p>at upper ctc, qtz patch surrounded and being consumed by Carb. then sharp ctc into Si-WR (squared of frags), with bio rimming and itsl dol/Carb. py locky up to few %. bio increasing down.</p> <p>most of unit consist of Glim - bio/phl rock, qtz/Si-WR frags rimmed by bio seen locky but not as common.</p> <p>ibd Carb, ranges from 20-150 cm, irregularly distributed, increasingly common moving down. ctc are sharp and gradational. common abnt Carb vnlets x-cut Glim throughout.</p> <p>214.20 m to 222.80 m - essentially all Glim Carb only frags/vnlets and small patches (<10 cm) qtz fras locky (rare).</p> <p>222.80 mto 244.80 m - increased Carb - no large sections, increased vnlet size and increased frequency of smaller bnds, these mostly y-gy to med gy. qtz also increased, frags in Glim and ibd Si-WR up to 30 cm locky.</p> <p>208.55 m to 208.85 m - a few og bnds - Rhy frags? x-cut dykes? up to 12 cm wide. sharp ctc, bio/phl up to 2 mm thick. these are aph, homo, qtz-rich. dol-bio frags scattered within up to few mm, also dk br min locky - mnz/xnt? H = 4.5, with gr rx rim. these not seen elsewhere in hole.</p> <p>244.80 m to end - Carb intervals and patches increase again, up to 1.5 m, Glim intervals < 1 m with dol/Carb vnlets intruding. qtz/Si-WR frags locky. (esp. common 272.50 m to 284.50 m)</p> <p>@261.30 m and 261.90 m - Glim bnds not fracd/fragd by Carb although Carb blebs still diss, bio 90%.</p> <p>@287.70 m and 288 m - br pitted bnds, dol + bio + py.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | all Carb in this unit has ap bnds and patches up to 15% locly, v. random. EOH | | | | |

Handwritten signature and date: 06/07/2011

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|-------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536147.47 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 04, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312141.87 | Rig Type: Discovery I | Date Completed: Jul 07, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Not Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 2.13 m | Note: Imperial to metric rod switch |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 274.82 m | @ 174.19 m |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: R.Renz, A. Durante | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 2.14 | 46.22 | dol-Carb | A | <p><u>fl dol-Carb</u></p> <p>ol-gy (5Y 4/1) to dk gr-gy (5GY 4/1) to lt ol-gy (5Y 5/2) with lt-med gy and pale ol (10Y 6/2) sections locally. unit has a v. hetero text, f.g. top half v. little fl, but bottom half perv. fl (itsl and patches). late stage Carb dykes also common-abnt bottom half.</p> <p>modal mineralogy: dol (other carbonates?) 90-95%; fl 5-10%; sul trace; REflc trace; mnz trace</p> <p>1.90 m to 7.04 m</p> <p>1.90 m to 2.16 m - core is very broken up with mud at very beginning. after this, core becomes competent immediately.</p> <p>2.16 m to 7.04 m - ol-gy to lt ol-gy v.f.g. hetero interval. perv fl throughout (up to 80% locally from 5.22 m to 5.44 m). psd-brc (ctsc?) lt ol-gy v.f.g. gdmass with cr-w Carb clsts within (<<1 cm). wk inconsistent bndg (orientation TCA changes in short intervals).</p> <p>late stage Carb dykes (v.f.g., gr-gy), generally sharp ctcs, ltr colored than gdmass, <2 cm.</p> <p>v.f.g. dk b-gy vnlets infilled with bio and sul (euh py cubes in places) + chl? (too fine grained). qtz pockets around vnlets.</p> <p>v.f.g. gr-gy patches locally. (y under microscope, infilled with qtz and chl? and f.g. amph).</p> | | | 2000 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 46.22 | 81.73 | - | A/B-T | <p>few chl pockets, (specifically at 32.50 m), v.f.g. soft, dk b-gr. some fl clsts rimmed by w dol-Carb.</p> <p>late stage Carb dykes (ol-gr) up to 7 cm, sharp ctc, v.f.g. → at 32.65 m, 51° TCA.</p> <p>few bnds and vnlets of gy-blk min (RE-min?) and br min → not really as many as prev interval but same mineralogy.</p> <p><u>fl dol-Carb</u></p> <p>transition zone defined by drop in CPS. (550 CPS avg → too low to be A zone, but too high to be b-zone) [side note indicates: "incorrect assumption" - signed by D. Smith]. overall, v.f.g., lt ol-gy (5Y 5/2) to dk ol-gy, v. hetero interval (alternates psd-brc (A-zone) to mere homo y-gy (5Y 7/2) - b-zone sections). wklv mod foln overall. sections of perv fl.</p> <p>modal mineralogy: dol (and other carbonates?) 95%; fl 5%; sul trace; REflc trace; amph (arf?) trace</p> <p>46.22 m to 50.27 m - ("A-zone") - v.f.g., ol-gy, hetero (mottled and patchy as seen previously), wklv to mod foln locld psd-brc - mm size dol-Carb clsts (cr-w). rare late stage v.f.g.-dk (gr Carb vns - sharp ctc (<1 cm)).</p> <p>core pretty broken up but no core loss.</p> <p>perv fl throughout interval (5%) as bnds, vnlets, specs, patches etc.</p> <p>48.82 m - fl has r-br hue to it (REflc influence?).</p> <p>49.66 m - dk p fl patch with diss sul and euh py within.</p> <p>diss suls throughout.</p> | | | | 600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>50.27 m to 55.00 m ("B-zone") - v.f.g., pale ol (10Y 6/2), homo (in comparison to A-zone, but still patchy), v. wkly bnded foln dol-Carb with v. little fl as specks, vnlets and patches - trace overall.</p> <p>bottom half of interval, dk b patches of amph (arf?) - xtlline grains have what looks like a ltr b rim around it, possibly retrograde vitallization?</p> <p>loclcd psd-brc - v. subtle - mm sized ltr cr-w dol clsts.</p> <p>few b-gy bnds-colour from diss sulS within dkr dol-Carb.</p> <p>diss sulS throughout.</p> | | | | 425 |
| | | | | <p>55.00 m to 81.73 m - ibd A + B zones (sections not as defined as top of transition zone). overall, A-zone more dominant (2-3 m beds on avg), B-zone less dominant 6.5 cm-2 m on avg). A-zone defined by dkr colour and more fl and hetero text and stronger brc (w-ltr more y color, more homo dol clsts) and sul (diss, pockets). text and less-no fl and b bnds and patches and amph patches in B-zones.</p> <p>overall, A+B zones through rest of interval are similar to what was described at top of transition zone.</p> <p>late stage Carb (v.f.g. ol-gr, sharp ctc) occur in both units.</p> <p>73.72 m to 75.84 m - str psd-brc with distindly diff text v.f.g. gy mtx with abnt cr-w rnd-ang dol clsts (all <1 cm) with diss fl some fl has r-br min in and around it-REflc? throughout-hydrothermal influence? (has itsl look to it).</p> <p>68.90 m to 69.37 m - abnt ~0.5-2 cm dk blk-b elongate sub-ang to sub-rnd clsts-v.f.g. bio and sul diss in dol-Carb - gives b hue. sharp ctcs - interesting shapes. one sub-rnd clst has bio stringers penetrating out of clst (<1 mm) looks like a caterpillar. (68.90 m)</p> | | | | 550 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 81.73 | 114.75 | - | B | <p>sul pockets and diss throughout (assoc. with fl).</p> <p><u>ap dol-Carb</u></p> <p>v.f.g., y-gy (5Y 7/2) - lt ol-gy (5Y 5/2) - pale ol (10Y 6/2). wkly to mod bnded, blotchy/patchy/mottled text (but more homo than prev intervals), locld psd brc in sections minor perv fl, trace REflc (r-br, v.f.g., diss - bsn/prs?). b-gy bnds and patches mm size amph (arf?) xtls surrounded by ltr b-gy - re-xtln product? diss suls (trace) throughout.</p> <p>modal mineralogy: dol-Carb 85-90%; bio <5%; fl <5%; REflc <5%; ap 5%; sul trace amph (arf?) trace.</p> <p>81.73 m to 85.23 m - v.f.g., ol-gy psd brc, with <1 cm dol clsts throughout, minor perv. fl (as bnds and specs diss, <5%). y-gy sections, overall wk-mod mottled text, but looks rather homo in comparison to rest of interval. displays wk foln. gy-b vnlets and bnds (define foln) → v.f.g. bio and sul that give off gy-b colour trace r-br min near end, diss, v.f.g. - REflc? (bsn/prs?).</p> <p>85.23 m to 90.50 m - v.f.g., y-gy, psd-brc (cr-w dol clsts up to 5 cm → not much ltr than gdmass, giving interval a distinctly mottled text), wk foln within y-gy gdmass, dkr gy patches - translucent ap clsts (<5%). minor perv fl. bl-gy bio itsl bnds again. also b-gr patches and specs of amph (arf?) - have ltr b-gy rim usually - rextln product → 88.66 m to 88.90 m is most dominant diss suls and pockets throughout.</p> <p>90.50 m to 97.84 m - same v.f.g., psd-brc, wk-mod foln, mottled text but more perv fl (5% locly overall) and interval has distinct cr-y gdmass with bright p diss fl throughout. gy patches in y gdmass are ap. dk gy-b bnds and amph again. at 91.29 m - frac running roughly along CA, partly infilled by talc (greasy, lt b). @ 95.30 m - ~1 cm wide v.f.g. ol-gy-gr late stage Carb vn running ~parallel TCA. 96.10 m to end - r-br diss min - REflc (bsn/prs?).</p> | | | | 300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 114.75 | 127.72 | - | BD | <p>97.84 m to 114.75 m - same as above but more ol-gy to gy-b gdmass and less perv fl (psd-brc). locl mod-str foln, mottled. more abnt b-gy bnds. REflc infills microfracs and diss throughout. few qtz vns. at 98.60 m - foln measured 50° TCA. few vuggy portions - sul ± REflc infill or left empty. locl ap bnds and blotches (~5% locly).</p> <p><u>ap REflc dol-Carb</u></p> <p>hetero! psd-brc v.f.g. pale ol to y-gy gdmass with abnt perv REflc mineralization (up to 50% locly), mainly diss in bnds but also as vnlets/frac infilling? brc mainly defined by dk gy-b bnds as prev seen again w-cr dol clsts. minor diss fl. more y translucent sections in gdmass (abnt,~10%) are actually ap clsts/bnds. few late stage Carb vns (v.f.g., sharp ctc, ol gr-gy). mod bnded/foln overall.</p> <p>modal mineralogy: dol-Carb 80%; REflc (bsn/prs?) 10-15%; fl <5%; amph <5%; ap 5-10%; sul+bio+qtz trace</p> <p>f.g. b-dk b-gy amph diss throughout often in clusters; example 121.40 m to 121.55 m.</p> <p>@~118.65 m - open vugs/frac (end of core piece) infilled with bright og-r min - chalky (lim? goethite?)</p> <p>@~118.82 m - pockets of v.f.g. blk-br min, dull, soft-seriously looks and feels like mud. infills microfracs too though - hydrothermal influence? vug infill?</p> <p>tiny open vugs throughout core.</p> <p>few qtz vnlets and clsts throughout as well.</p> <p>last ~50 cm is relatively homo, a bit patchy, no REflc mineralization, but abnt ap bnds (UV), up to 50% locly.</p> | | | | 275 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 127.72 | 136.13 | - | | <p><u>bio Carb (edge of Carb?)</u></p> <p>v.f.g. brc WR with abnt dol-Carb bnds up to 30 cm (dol bnds are psd-brc and display mod foln). pk-cr cc bnds up to 10 cm and mm sized vnlets dol-Carb bnds are blotchy, lt ol gy to y-gy, with dk-b gy-b clsts/bnds within (v.f.g. diss fol+bio+sul py cubes often have og-br with rnd rim around).</p> <p>diss suls throughout (occur in clustery as well).</p> <p>around Carb boundaries is often a layer of bio rimming Carb. probably due to fennitization process. fennitized dol-Carb creates stockwork brc text loclly (e.g. 130.45 m to 130.93 m).</p> <p>v.f.g. diss amph within dol-Carb (rare! b-gy). few fl clsts and diss throughout (trace). large clst 3.5 cm at 129.80 m, open vugs in and around as well.</p> <p>few ~1-2 cm late stage Carb dykes x-cut (sharp ctc v.f.g. ol-gr). bio and sul vnlets/micro frac infill? - fairly common.</p> <p>modal mineralogy: WR 43%; dol-Carb 50%; bio 7%; suls <5%; amph trace; cc trace; fl trace</p> <p>last 5 cm has finely bnded dol-Carb and bio and euh mag xtls and euh py.</p> | | | | |
| 136.13 | 148.92 | - | | <p><u>silicified WR</u></p> <p>hetero mineralogy and text overall, v.f.g. dk b-gr WR (>95% qtz) with intruding dol-Carb (bnds and vnlets). dol-Carb bnds are psd-brc (w-cr-y colour with dol clsts ± bio clsts ± amph (arf?) + diss sul ± REflc). few cc bnds. distinguishing feature of this interval is abnt (~5%) hy-thermly influenced vns (and frac infilling) gdmass is v.f.g. light ol-gr colour with abnt diss b amph (arf?) → amph only associated with these gr vns and dol-Carb. throughout these vns, often itsl cc ± other carbonates? within gdmass gr colour from v.f.g. chl? diopside?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 148.92 | 161.39 | - | | <p>fennitization much less than previous-very rare overall-stockwork text in locld areas.</p> <p>modal mineralogy: WR 75-80%; dol-Carb 5%; cc 5%; amph <5%; REflc <5%; chl? di? 5%; bio ~5%; mag <5%; sul trace</p> <p>138.68 m + 139.64 m+ 145.08 m - 1-5 cm wide cc-Carb vn rimmed with bio and abnt diss REflc (r-br, prs/bsn?). smaller vns identical to this occur throughout the interval as well.</p> <p>@141.04 m - ~17 cm bnd of cr-y, psd-brc dol-Carb within dol clsts,WR clsts, diss REflc and bio. v. blotchy text. inner 1 cm rim is relatively homo y-gy dol-Carb with only REflc diss - wk-mod ctc.</p> <p>145.15 m - 0.8 cm p-r vnlet - just diss bio and REflc together to create p hue (no fl!).</p> <p>146.25 m to end - f.g. euh mag. xtls - diss. 146.85 m to 147.06 m - mag up to 15% locly and c.g. gy-b colour.</p> <p>f.g. euh suls and diss throughout.</p> <p>overall interval has v. wk foln.</p> <p><u>bio-rich WR</u></p> <p>highly silicified dk gy-blk to b-gy WR with increasing Glim (bio) content. homo. very little Carb influence at all, few vns, vnlets, and clsts, but less than 10% overall. abnt itsl cc within WR. few (late stage?) y-gy dol-Carb vns, v.f.g., sharp ctc. diss suls throughout. wkly fol overall.</p> <p>modal mineralogy - silicified WR 70-75%; bio/ Glim 15%; cc 7%; dol-Carb <5%; sul trace; amph trace.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 161.39 | 171.55 | - | | <p>@ 152.56 m - abnt (~10% locly) <1 mm euh-rnd dol clsts around itsl cc and 1 cm Carb bnd (cr-y dol-Carb rim, b-gy cc+WR center) → 49° TCA.</p> <p>@ 160.5 m - 8 cm cc-Carb bnd with gy-b patches.</p> <p>@ 161.27 m - ~1.5 cm vn gr-gy with abnt itsl cc within and abnt euh py infilling vn <3 mm - relatively sharp ctc.</p> <p>b content in WR - could be due to v.f.g. amph within-found sparse v. small amph (arf?) throughout, and latger xtls in last 10 cm (~1 mm across - in with bio so difficult to notice unless under microscope).</p> <p><u>ibd Carb and WR</u></p> <p>WR interbedded with both cc-Carb and dol-Carb.</p> <p>cc-Carb is v.f.g. to f.g. w-gy and occurs as bnds, blebs, vnlets and clsts. generally, ltr coloured compared to dol-Carb, and often contains b-gy bnds/patches within cc-Carb (diss bio +sul give off this hue). at 162.17 m - bnd displays a bit of a gr-y hue-those sections are harder - ap? 166.00 m to 166.75 m - large, psd-brc, patchy/blotchy cc-Carb bnd with wk to mod foln and abnt b-gy patches (sul + bio mix again) , however some patches are more b. v.f.g., b min (amph-arf?) - really small and difficult to see/distinguish. large band has few ap? bnds as well-abnt itsl cc-Carb within WR.</p> <p>dol-Carb is v.f.g. gy-b-gr, patchy and generally not brc. 167.96 m to 168.21 m - w-gy dol-Carb bnd (actually looks like cc-Carb at first glance) with ap bnds and cc bnds outside of large dol bnd is rimmed with b amph (arf?) and bio. amph is almost all dol-Carb bnds. few (late stage?) dol-Carb bnds/dykes (ol-gr, v.f.g., sharp ctc, and are on avg 2 cm wide). at 171.50 m - dol-Carb bnd surrounded by abnt microbnds of ltr dol-Carb and b amph bnds - VERY COOL!</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 171.55 | 183.65 | - | | <p>WR is generally bio rich rom 161.39 m to 169.30 m after the ~12 cm dol-Carb bnd, WR is definitely silicified or qtz rich (until end) and bio rich WR shows stronger brc textures than qtz-rich (qtz rich=b-gy, bio rich=blk-gy).</p> <p>diss and c.g. suls throughout!</p> <p>modal mineralogy - bio 35%; qtz 40%; dol-Carb 10%; cc-Carb 15%; amph <5%; sul trace</p> <p><u>amph mag C-Carb</u></p> <p>v.f.g., gy-b (5PB 5/2) - med b gy (5B 5/1), mod-str fol with moderately homo text (text differences mainly due to diff in foln strength), and mag abundance. diss euh mag xtls throughout whole interval, but much more abnt in bottom half (f.g. to c.g.).</p> <p>few y-gy dol-Carb bnds (2-5 cm) near end, v.f.g., but still have abnt itsl cc within.</p> <p>b hue comes from abnt v.f.g. diss amph (arf?). some of more b-gy portions come from diss sul and bio.</p> <p>a lot of sul (i.e. py cubes) have br wthrd rim around them.</p> <p>(side note: textures of the next two sub-intervals generally alternate down.</p> <p>top to 173.27 m - v. subtly psd brc and v. wkly bnded. from</p> <p>173.27 m to 174.87 m - v. str fol! approxamitely 72° TCA.</p> <p>some cc bnds have pk colour to them, but most commonly w-gy.</p> | foln 72° TCA | | 175 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 183.65 | 274.82 | - | | <p>~179.5 m to end - abnt euh mag xtls (up to 10% locly).</p> <p>modal mineralogy: cc-Carb 85-90%; amph 5%; mag 5-7%; bio <5%; sul trace; dol-Carb trace</p> <p><u>ibd Carb and WR</u></p> <p>overall, alternating units of bio rich WR and qtz-amph (b) WR interbedded with cc-Carb +/- dol-Carb.</p> <p>v.f.g., gy-blk to blk-br to b wr with bnded/fol sections.</p> <p>v. str bnded in portions! (str foln) 70° TCA. bnds are 1-10 mm and consist of alternating WR+Carb +/- v.f.g. xtl n br min (rt? hard >5) +/-pastel gr min (di? chl? hardness varies because mixed with v.f.g. carbonates and qtz - too small to identify).</p> <p>hetero/brc overall, and text generally gets str downhole. (stockwork text locly).</p> <p>modal mineralogy: bio 35%; qtz 30%; amph <5%; dol-Carb 10%; cc-Carb 25%; di?/chl? trace; rt trace; suls trace</p> <p>c.g. to diss suls throughout, often infilling microfracs with bio. py cubes found up to 0.5 cm.</p> <p>bio rich WR brc zones often have dol-Carb vnlets and clsts (euh-rnd, ~1-2 mm).</p> <p>188.60 m to 189.82 m - gy-y-cr dol-Carb bnd with few ap? bnds, itsl cc, bio stringers (rare), and few qtz clsts (<1 cm) few open vugs (1.5 cm max). rare diss r-br within smaller vugs (REflc? Fe-ox?). almost all dol-Carb bnds have similar features, minus open vugs (but still trace r-br min) same display mod-str bndg.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>192.12 m to 200.67 m - abnt pastel gr, v.f.g. min mixed with qtz and carbonates - occurs mainly as well defined bnds but also as clsts. hard br v.f.g. min often "inter-bnded" with gr min (rt?).</p> <p>bndg ranges from 71° to 85° TCA.</p> <p>@198.44 m - ~2 cm gy-dk gy qtz bnd with abnt (~25%) v.f.g. amph all relatively oriented. diss sul and itsl cc in bnd as well (those bnds reoccur down hole and are larger, this is just first occurrence). amph xtls often hidden within b WR colour, 242.50 m to 242.72 m is a great example of amph xtls in qtz.</p> <p>@200.66 m - ~8 cm dol-Carb bnd. ol-gy (5Y 4/1), sharp ctc rims ol bnd are coated with <1 mm bio bnd has patchy text but homo overall. (these bnds rarely reoccur downhole).</p> <p>@~201.50 m - first occurrence of f.g. mag xtls xtls (euh). most commonly occur in cc-Carb.</p> <p>212.05 m to 231.19 m - stronger brc text defined by w (opaque) dol-Carb and cc-Carb vnlets intruding WR. microfracs throughout, usually infilled with bio + sul. 217.55 to 217.80 m, 221.92 m to 220.50 m - unusual brc text c.g. w fsp (albite) xtls and gy translucent qtz with itsl gr+b min (v.f.g., hard, pale gr in microscope) - hardness could be due to qtz and fsp around. few microfracs - subtle stockwork brc text-often rimmed/filled with bio and sul and cc-Carb.</p> <p>247.34 m to 248.05 m - w opaque fsp clst "speckled" within cc-Carb.</p> <p>248.05 m to 273.25 m - str bio rich WR brc with intruding cc-Carb. cc-Carb bnds up to 1.40 m.</p> <p>large bio clsts, sub-rnd to ang with cc-Carb, 4-5 cm avg.</p> <p>abnt dol-Carb and cc-Carb vnlets rimmed with bio (up to 0.5 cm thick)- fennitization? - this text is v. well defined (especially at 253.06 m to 253.30 m).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 273.25 m to end (274.82 m), v.f.g. homo, pale ol (10Y 6/2). dol-Carb EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536147.88 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 07, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312142.13 | Rig Type: Discovery I | Date Completed: Jul 19, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 ft & 3 m | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 1.52 m | Note: Imperial to metric rod switch |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: -444.93 m | @ 173.73 m. |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: P. Schmidt | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 1.32 | OVB | | <u>Ovb</u> | | | | 400-650 |
| 1.32 | 2.44 | - | | <u>frost heaved bldr ie. bedrock</u> bldr parts, rock chips and clay. bldr parts up to 20 cm all dol-Carb same with fl patches and itsl fl (all v.f.g.). 18 cm clay zone, gy-br. | | | | |
| 2.44 | 83.37 | dol-Carb | | <u>fl dol-Carb</u> v.f.g. Carb with pale ol (10Y 6/2) colour, minor bigger dol(?) - Carb grains within the finer carbonates. common itsl fl (~1-2%) up to 3-5% in some spots. y-gr mins (ap?, mnz?, xnt?) itsl in carb and in bigger fl. patches and bnds up to few cm (3 cm). trace vnlets of fl without itsl min in various amounts probably crack healing event ~0.1 cm wide. trace coarser suls (py?, po) visible along trails. trace v.f.g. late stage Carb vns cutting up to 1 cm in size. inbedded? clsts? of str foliated, dol-Carb? with bio fl ap? clsts defining the fol. text is hetero and varies within few dm (decimeter). fol varies from non to str within few meters mostly depended of the around of early (mineralized) fl bnds and patches. modal mineralogy: dol-Carb: ~90%; fl: ~1-5%; bio: trace; F-Carb (late stage): ~trace; sul: trace; gr f.g. min (ap?, xnt?, mnz?): ~1-3%. 2.44 m to 4.49 m - dol-Carb with itsl v.f.g. gr min (mnz?, ap?, xnt?) almost no fl but in some minor patches, some late stage Carb vnlets with abnt sul (py) and bio at outer parts of it. | | | | 700-1000 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 4.49 m to 8.40 m - dol-Carb with itsl gr min (mon? ap? xe?) more common ~5-8% fl-rich bnds with common r mins (mnz?, REflc?) and y Carb? clsts late stage Carb bnds up to 1 cm with zoned mineralogy cutting in 35° angle @7.35 m. 6.75 m to 7.10 m inbedded? clst? of fol dol-Carb - bio fl ap? rock angle of bio fl ap clsts in dol-Carb ~ 30°. | | | | 600-900 |
| | | | | 8.40 m to 9.08 m - fl poor section. first 15 cm f.g. dol-Carb with itsl gr-br mins, rest of unit is again the dol-Carb clst? (ibd?) with bio fl ap clst along a ~45° angle. the bio - ap? - fl clsts are up to 0.5 cm. | | | | 800-900 |
| | | | | 9.08 m to 10.02 m - fl-rich dol(?) - Carb mottled text, dol(?) - Carb gdmass v.f.g. with up to 60% of fl - ap? - mnz? bnds. some bigger clsts? of dol-Carb brcd? bx fl - ap? - mnz?? bnds are running mostly ~35° TCA. high of radioactivity where highest content of fl - ap? - mnz? at first ~10 cm. | | | | 800-1000 |
| | | | | 10.02 to 10.90 m - fl-poor section with first 13 cm f.g. dol-Carb with itsl ap? mnz? followed by ibd? clst? of dol-Carb with fl bio ap? clsts elongate along a 35° angle TCA. | | | | 700-800 |
| | | | | 10.90 m to 11.50 m - fl-richer part dol(?) - Carb clsts up to 1.5 cm sub-rnded? with gdmass of fl bnds and patches with itsl mnz? (r-br min) @10.75 m - brc with rnded? w dol(?) - Carb clsts and bio-rich clsts, ~3 cm wide. abnt secondary crack filling fl in section up to 0.1 cm in ~40° angle TCA. | | | | 700 |
| | | | | 11.50 m to 21 m - fluctuating between fl-rich and fl-poor zones but always itsl mnz-ap (gr-br v.f.g.) from 14 m to 14.20 ibd clst of dol-Carb gdmass with elongate clsts of bio fl ap? in an 35° angle TCA text in whole unit: itsl and in patches and vnlets appearing ap? - mnz ± fl are the gdmass which brcd the dol(?) - Carb. | | | | 800-1000 |
| | | | | @20.75 m - 4 x 5 cm py euh xtl. @20.71 ~ 0.2 cm qtz - fl vn cutting 30° TCA. @20.51 m to 20.73 m - ~10-20% itsl br-gr min. @20.9 m qtz vnlet parallel TCA. | | | | |
| | | | | 21 m to 25 m - top 30 cm ~30% of rock is a big fl patch? v.f.g., no visible other min in between. | | | | |
| | | | | 22 m to 22.15 - healed frac with f.g. r-br limonite ~10% of rock. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>21.35 m to 21.50 m, 22.42 m to 22.85 m, 23 m to 25 m - ibd? dol(?) - Carb clsts? with elongate fl bio ap? patches ~0.5 cm, in various angles ~30°-45° TCA. in dol(?) - Carb? itsl gr-br min. minor late stage Carb dykes and crack filling qtz fl vnlets.</p> <p>25 to 41.74 m - dol(?) - Carb clsts sub-rnded ~0.5 cm - 2 cm with fl - mnz? - ap? + r-br min. ~10-20% mineralized fine grained gdmass and ~80% clsts (elongate). ~5% late stage carb dykes cutting trace amount of crack healing fl fol moderate to str ~35° TCA more common late stage Carb dykes (y f.g. cutting through).</p> <p>28 to 28.5 m - late stage Carb.</p> <p>@28.85 m - 10% of Carb clsts are pk cc.</p> <p>32.55 m to 32.92 m - no fl - mass. Carb with itsl mnz? - gr v.f.g..</p> <p>33.70 m to 34.26 m - well mineralized fl patch ~50% fl. 50% r-br min (REflc?)</p> <p>34.5 m to 34.74 m - v.f.g. late stage Carb dyke.</p> <p>37.7 m to 38.08 m - fl-rich patch (~60% of rock) with ~40% r-br min same in 37.30 to 38.08 m.</p> <p>41.74 m to 45.56 m - fl-poor zone with f.g. gr-gy Carb and itsl gr-br mins (ap?-mnz?) - abnt late stage Carb dyklet. some minor qtz fl vns and trace patches of fl + r-br min.</p> <p>45.56 m to 54.25 m - fl more common again ~5% as gdmass in gy dol(?) - Carb clsts (sub-rnded up to 0.5 cm) all cut by trace amounts of f.g. ol-gr late stage Carbs.</p> <p>y-gr f.g. min (mnz?, ap?) perv in fl and locly without fl as gdmass.</p> <p>@46.20 m - 2 different late stage Carb dykes cutting, a y-gy (5Y 8/1) and this is cut by a common dk gr-gy (5GY 4/1) Carb dyklets.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 51.21 m to 51.74 m - abnt crack healing fl vnlets. | | | | |
| | | | | 56.25 m to 57.35 m - lt ol-gy syb-rnds gdmass almost mass with itsl y gdmass min (mnz? ap?) and gy y Carb? (~10%) all v.f.g. common late crack healing fl, some late stage Carb dykes cutting. | | | | 600-1000 |
| | | | | 57.35 m to 68.84 m - fl-rich rock (~5%) with itsl g-br mins (mnz, ap?, xnt?, r-br mins (REflc?). the fl + accessory mins form bnds and patches brcg the dol(?) -Carb. in ~0.5 cm unrnded psd clsts? angle TCA ~35° (of fl-rich bnds) common up to 22 cm wide late stage Carb dykes are cutting (for example @63.40 to 63.62 m) with common zoning (sometimes thin fl bnd in middle, dk gr Carb and then at the outside y-gy), all is cut thin frac filled (healed) with fl ± qtz. | | | | 600-800 |
| | | | | @66 m - ~1 cm coarse grained qtz + dol?-(F?)-Carb cutting ~ parallel TCA with dol v. b min (trace) gal? | | | | |
| | | | | 68.84 m to 70.15 m - dol-Carb with almost no fl but abnt f.g. gr perv mins forming a gdmass supported brc with up to 1.5 cm w - y-w clsts. some minor thin cracks healed with fl cutting. | | | | 600-700 |
| | | | | 70.15 m to 71.26 m - hetero text. fl-rich with mod oriented patches and bnds of mineralized (itsl gr-br min and locky r-b. (REflc?)) clsts up to 2 cm of w dol surrounded by gr f.g. dol(?) -Carb and the fl patches. | | | | 700-1000 |
| | | | | @70.50 m ~ 1 cm fl + Carb vn with v. fine layered fl followed by Carb etc indicating oscillating conditions during formation (fluid composition, temperature, fo ₂ , fro ₂ , pressure, etc) | | | | |
| | | | | 71.26 m to 71.80 m - psd-brc, ~0.3 cm elongate dol(?) -Carb clsts with fl gdmass + gr f.g. itsl mnz?, ap?, xeno? | | | | 800-1000 |
| | | | | @71.5 m - a 1.5 cm late stage Carb vn is cutting also at end of unit (~3-5 cm). | | | | |
| | | | | 71.80 m to 72.16 m - v.f.g. p and dk gr almost mass F?-Carb with fl - late stage Carb? | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 83.87 | 147.71 | - | | 72.16 m to 75.78 m - strly bnded unit (flow text?) with ~3% fl psd? brc dol-Carb (w) in a fine grained gr dol(?) -Carb gdmass with itsl br-gr min (mnz?, ap? xnt?) and patches and bnds of fl with same itsl min, bnds ~20-25° TCA, common late stage Carb dykes cutting. | | | | 700-900 |
| | | | | 75.78 m to 77.53 m - gr f.g. dol(?) -Carb with itsl gr-br and r-br mins and patches (mnz, ap?, xnt? REflc?) few clsts? of w dol(?) -Carb. | | | | |
| | | | | 77.53 m to 78.8 m - gy-ol-gr (5GY 3/2) (v. dk) F-Carb? with itsl v.f.g. fl in trace amounts, some other gr f.g. mins (mnz? xnt?) | | | | 1200-1500 |
| | | | | @78.29 m - at frac a ~9 cm cover of coarse grained qtz and c.g. y Fe? -Carb with trace amounts of suls (py?) and a silvery b min (gal?). | | | | |
| | | | | 78.8 m to 83.87 m - mottled text with abnt ~3-4% fl mostly in late stage healed cracks, but also itsl and in patches with itsl gr f.g. mnz?, trace suls. | | | | 1000-1500 |
| | | | | @80.50 m brittle core → FZ? → but also a lot of diss → drillers? | | | | |
| | | | | @82.36 m - high porosity (~3 cm) with common lim infill (cover?) further down to end at 83.87 common lim cover at frac surface. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | f.g. med lt gy (N6) with mostly mass text. fl is common as little 0.1 cm blebs ~ 1-3% gr perv f.g. mins are itsl in Carb (ap? mnz? xnt?). few f.g. gr late stage Carb vns cutting common mafic infill and mafic clsts (mostly bio) sul are trace. more common lim as frac cover especially @ top of unit. XRF indicates heavy enrichment with Y ~4000 at sorted tested spots. | | | | |
| | | | | modal mineralogy: dol-Carb: ~95%; fl: 1-2%; bio ~1%; suls: trace; ap? xnt? mnz?:1%; lim:trace. | | | | 900-1200 (except fl-rich patches.) |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 83.87 m to 86 m - within this zone abnt lim @ fracs abnt high porosity close to fracs. | | | | 1000-1500 |
| | | | | 88.5 m to 88.70 m - dol(?) - Carb clst (w) in gy-gr gdmass with abnt bio + sul infill. | | | | |
| | | | | 90.29 m to 90.33 m - big unmineralized? fl patch. | | | | |
| | | | | @96 m - 2~4 cm bio clsts | | | | |
| | | | | 96.80 m to 99.49 m - elevated perv fl content also in smaller bnds | | | | |
| | | | | 99.52 m to 99.6 m - brc with 2 cm rnded dol-Carb clst, not rnded bio clsts up to 1 cm, euh sul in the thin bio pockets and bnds forming with dol-Carb the gdmass. | | | | |
| | | | | 101.58 m to 102.39 m - a 5-8 cm wide zoned (visible through fine blk? bnds within dyke) late stage Carb dyke Fe?-Carb) running along CA. | | | | |
| | | | | 102.56 m to 103.49 m - psd-brc? not rnded up to 2 cm and common not rnded bio clsts of similar size. | | | | |
| | | | | 104.40 m to 104.67 m - ~5% fl in up to 0.3 cm cracks has infill. | | | | |
| | | | | 105.5 m - 105.56 m - fl patch with cr dol-Carb? clsts. | | | | |
| | | | | 113.73 m to 114 m - psd-brc cr dol(?) - Carb with itsl gr f.g. mnz? | | | | |
| | | | | 114.17 m to 114.25 m - patch of fl with r-br mineralization with psd y dol-Carb clst indicating fol, this is cut off by the normal unit gdmass (4000 Y at XRF) so this unit formed after A-zone mineralization → text picture. | | | | |
| | | | | 120.50 m to 121.03 m - fl-rich patch with psd? brc of y dol(?) - Carb? and a 1.5 cm late stage Carb vn. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|----------------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 147.71 | 200.78 | - | | <p>125.93 m to 126.16 m - ~1.5 cm fl vn, unmineralized? ~20° TCA.</p> <p>128.93 m to 129.35 m - psd-brc with clsr of dol(?) - Carb up to 0.5 cm sub-rnded? perv fl ~3-5% with itsl r-br mins (REflc)</p> <p>129.35 m to 144.26 m - gradational ctc with increasing brcn? (psd-brc) of dol-Carb by gr perv mineralization (ap? xnt? mnz?) fl-rich patches ~3% @36.28 m to 36.50 m and 140.50 m to 140.92 m, 142.81 m to 143.1 m mag xtls (~1%)</p> <p>144.26 m to 147.71 m - dol(?) - Carb with dk gy colours (N3) maybe slight gr with few brighter patches (psd-clsts) perv gr v.f.g. mins (xnt? mnz?) and perv fl with itsl (REflc?) r-br min.</p> <p>gradational ctc to lower unit.</p> <p><u>fl dol-Carb (B-zone?)</u></p> <p>patchy hetero rock with mostly psd-brc of dol(?) - Carb in a y-gr v.f.g. gdmass (mnz?, ap?, xnt?) colours appears pale ol (10Y 6/2) common diss sized fl-rich zones (patches) replacing the (mnz?, ap?, xnt?) y gdmass. late stage Carb dykes uncommon but few at top in gradational ctc zone. spots of r-br min replacing fl and or mnz?, ap?, xnt? gdmass occur. XRF for y perv gdmass and fl-richer spots ~1.5-2% REE with La/Nd ~2:1. at r-br min patches ~7%. REE with la/Nd 3:1.</p> <p>modal mineralogy: dol-Carb: ~90%; y perv gdmass: ~3-5%; fl: 1-3%; r-br min (REflc) - trace; sul: trace; late stage Carb dykes (F?-Carb): trace; mag: trace.</p> <p>some late crack filling qtz fl vnlets trace amounts of b-gr amph.</p> <p>147.71 to 159.09 m - transition zone with dk gy spots @ 152.37 m to 152.80 m, 153.1 m to 153.55 m, 158.84 m to 159.09 m and few late stage Carb dykes. 148.8 m to 148.9 m up to 0.1 cm may xtls in rock and a bnd cutting the dol-Carb.</p> <p>169.11 m to 169.23 m - healed frac zone with lim pockets.</p> | | | 300-600 → max at top of hole. | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------------------|
| | | | | | | | DEPTH (m) | CPS |
| 200.78 | 219.40 | - | | <p>178.69 m to 179.02 m - dkr gr Carb with fl bnds → late stage Carb cutting @ ~25° TCA.</p> <p>184.13 m to 185.37 m - brcd but still in place normal Carb with accessory mins infilled with qtz + fl (~5% of these healed cracks).</p> <p>187.64 m to 188.30 m - abnt r-br min (bsn?) in patches, XRF → ~7% REE with 3:1 La/Nd ratio. ~5-8% r-br.</p> <p>189.12 m to 189.32 m - perv r-br min (~3%) and ~1% gr-b amph.</p> <p>187.69 m to 200.78 m - within this interval fl in patches is replaced? by r-br (REflcs?) min, also common association within these patches are m.g. b-gr amph locly up to 1% and also crack infill.</p> <p>brcn @ last 20 m of dol-Carb → clsts-sup with thin ~0.1 cm infill of fl + qtz + amph.</p> <p>200.40 to 200.49 m - patch of lim + suls (py?).</p> <p><u>dol-Carb</u></p> <p>gy dol-Carb mostly brcd (up to 0.5 cm clsts, sub-rnded) in a f.g. y perv gdmass → psd-brc text. sul and mag bnds and patches are locly quite common but overall trace. fl patches are rare but usually well mineralized when occur bio is trace but clsts itsl in vnlets are locly common.</p> <p>modal mineralogy: dol-Carb: ~90-95%; fl: trace; y perv gdmass: ~5-10%; bio: trace; sul: trace; mag: trace.</p> <p>200.78 m to 200.91 m - ~10% mag xtl up to 0.1 cm bnd, common sul up to 0.5 cm with lim rim around it all followed (200.91 m-200.94 m) by lim at a frac zone.</p> <p>203.87 m to 204.22 m - mag sul + 20° TCA.</p> | | | | 300-600 → at bottom |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 219.40 | 225.32 | | B | <p>@206.40 m - mag bnd.</p> <p>@208.74 m to 208.8 m - patch of r-br (REflc?) mins.</p> <p>211.95 m to 212.30 m - zone with fl in patches + itsl r-br mineralization.</p> <p>215 m to 216.39 m - zone with ~3% bio clsts and bio infill in cracks.</p> <p>218.93 m to 219.93 m - dk gr gdmass instead of y perv.</p> <p><u>fl dol-Carb</u></p> <p>patchy hetero Carb with ~1-3% itsl y (ap? mnz?) mins. common forming a psd-brc text. fl and itsl r-br mineralisation in patches up to dm[decimeter?] size instead of the y gdmass. common later stage cracks are healed with fl + minor qtz. suls are trace. b-gr amph up to 0.1 cm are trace. mag in bnds and patches is trace and seems to be a v. late event often with amph. end of unit because colour and mineralisation change (fl).</p> | | | | 600 |
| 225.32 | 234.17 | | | <p><u>dol-Carb</u></p> <p>hetero colour with psd-brc text and almost mass units minor fl only in small patches mag is common together with perv y f.g. gdmass (ap?, mnz?) and in late stage bnds up to 1 cm. bio and amph? are also common f.g. accessory mins within or instead the f.g. y gdmass.</p> <p>colour of unit varies but mostly medium b-gy (5B 5/1), >f.g. dol-Carb, psd-brc clsts are y-gy (5Y 8/1) dol-Carb.</p> <p>modal mineralogy: dol-Carb: 85-90%; y gdmass: <3%; mag,sul,amph: trace; bio: trace.</p> <p>225.37 m to 226.23 m - almost mass with mag-rich patch and vn of mag @ 225.77 m to 225.93 m and common r-br mins. XRF → 1.5Y REE with Nd/La 1:2.</p> | | | | 400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 226.23 m to 230.12 m - psd-brc text with common r-br mineralization in patches, amph in patches and itsl mag, 2[two] 1 cm mag xtls @ 229.68 m and 229.70 m. gdmass of psd-brc is y f.g. mins (ap?, mnz?). | | | | 300-400 |
| | | | | 230.12 m to 234.17 m - almost mass again, common mag, bio, and amph itsl and in patches. | | | | 900 |
| | | | | end of unit because colour and mineralogy change + scint. | | | | |
| 234.17 | 241.55 | | | <u>REflc dol-Carb (B-zone?)</u> mottled text/ psd-brc with f.g. y gdmass (ap? mnz?) and common patches of r-br mineralization (REflcs?). XRF @ such a patch ~4% REE with Nd/La = 1:3. w-y gdmass delivers ~25% REE with Nd/La 1:2 fl is trace, sul = trace. fol is wk ~30° TCA. | | | | 300 |
| | | | | big REE-F-Carb? patches @ 234.30 m, 235.58 m, 238.15 m, 239.91 to 240.20 m. | | | | |
| 241.55 | 253.41 | | | <u>dol-Carb</u> wk fol b-gy (5B 5/1) dol-Carb with minor itsl y f.g. (mnz? ap?) and bnds and patches of mag and amph, sul and trace. | | | | 300-350 |
| | | | | fol ~25° TCA. | | | | |
| | | | | 249 to 250.01 m - enriched in y gdmass ~3% and @ 249.30 m a r-br bnd (REflcs). → end of interval because of change in CPS and mineralogy. | | | | |
| 253.41 | 280.54 | | | <u>REflc + fl dol-Carb</u> hetero unit with wk to mod fol (~40° TCA), common psd-brc text (y f.g. gdmass with dol-Carb sub-rnded clsts) fl and r-br REflc patches (both mins together or only one of them) some minor clst of WR (ibd?) patches with more gy gdmass → micro-sul? itsl mag in patches often associated with gr mins (amph?) but overall in trace amounts, patches with fl deliver lower REE content → XRF than REflc rich patches. | | | | 250-300 |
| | | | | 254.20 m to 254.37 m - fl-rich patch. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 280.54 | 328.22 | | | <p>256.57 m to 256.87 m - dyke? with enriched gy gdmass and ~3% suls (py)</p> <p>257.46 m - WR clst ~3 cm, not rnded mostly bio + qtz?</p> <p>267.79 m to 268 m - 10 m brittled rock → FZ.</p> <p>259.03 m to 260.08 m - ~5-7% REflc bnds.</p> <p>@261.75 m - WR clst mostly qtz with minor bio.</p> <p>261.81 m to 262.22 m - REflc enriched ~8%.</p> <p>264.42 m to 264.76 m - brittled rock with major frac ~10° TCA + lim? cover.</p> <p>267.50 m to 268.03 m - with brittled rock → FZ with common lim at fracs (cover)?</p> <p>271.41 m to 271.89 m - abnt (~3%) amph + mag in gdmass.</p> <p>271.41 to 280.54 m - text ~ 95% psd-brc with elevated amph content.</p> <p>end of unit because change in text and mineralogy.</p> <p><u>silica rich dol-Carb (B-zone? transition BD-zone?)</u></p> <p>hetro as unit with intervals of different mineralogy and text.</p> <p>the major rock type is mod to well fol dol-Carb with fol defined by 0.1 cm -2 cm bio bnds, no fl and REflc, some sub to ang clsts of WR? and or bio schist, common py with bio.</p> <p>fol: 45° @ 290.70 m; 35° @ 284.70 m; 60° @ 325.50. for listed fols, angle is increasing with depth all TCA.</p> | | | | 200-400 → mostly 250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 328.22 | 344.36 | | | <p>modal mineralogy: carbonates: ~70%-80%; bio: ~10-15% → bnds; py: ~2%; fl, mag, amph: trace; bio + WR clsts: ~5%.</p> <p>~80% of unit; ~15% mnz? dol-Carb (B-zone). ~5% BD-zone.</p> <p>281.88 m - ~1 cm late stage Carb dyke cutting @ 25° angle TCA with ~10-15% small (0.1 cm) mag xtls.</p> <p>289.01 m to 289.56 m - ibd? B-zone? → psd-brc y gdmass with dol-Carb clsts? XRF → 0.5-0.7% TREE. Nd/La 1:1-1:2.</p> <p>290.76 m to 290.88 m - big WR clst with bio rim → fol? with py within bio-rich rim.</p> <p>291.93 m to 292.44 m - bio-rich zone ~30%</p> <p>293.87 to 307.64 m - zone with trace amounts of bio → wk fol, increasing amount of r REflc infill.</p> <p>296 m to 296.33 m a small intrusive? sharp ctc zone of BD-zone (medium to coarse carbonates with REflc mineralization) XRF ~ 1% REE with Nd : La = 1:1.</p> <p>308.50 m to 310.93 m - spotty well mineralization BD-patches up to few cm within overall poorly mineralized BD-zone ibd?</p> <p>@312.45 m - 8 cm py patch.</p> <p>317.61 m to 322.30 m - B-zone? ibd? v. wk psd-brc text with y f.g. gdmass around dol(?) -Carb clsts? XRF indicates up to 1-5% REE with Nd/La 3:2 @ v. y spot.</p> <p>end of unit because no more bio.</p> <p><u>mineralized dol-Carb (B+BD transition)</u></p> <p>mostly psd-brc with dol-Carb clsts and y (ap?, mnz?) gdmass, common patches of fl ± r-br REflc, patch of only REflc and bnds with REflc (BD-zone) are widely spread as ibd/ or patches.</p> | | | | 200-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 344.36 | 400.71 | | | <p>@342.80 m - fol is 40°</p> <p>qtz vns and patches up to 1 cm (usually few mm) occur often.</p> <p>340.1 m to 340.69 m - abnt crack healing fl + minor qtz vns.</p> <p>end of unit because no more y gdmass.</p> <p><u>REflc dol-Carb (BD-zone)</u></p> <p>medium to coarse (up to 0.5 cm) grained dol-Carb with various amounts of thin bnds of r REflc (f.g. but often in aggregates) causing at high amounts a str fol (55°-65°) XRF values ranged from 0.6%-1.5% with Nd/La 1:1. qtz itsl and in big patches is common but overall ~ trace amph is locly diss in patches (0.1-0.2 cm) fl is common in local patches but seems under 1% in overall unit. sul are trace.</p> <p>modal mineralogy: dol-Carb: 95%; REflcs: 2-3%; fl, sul, amph: trace; qtz: trace.</p> <p>366.09 m to 367.25 m - brcd unit with Carb gdmass + abnt micro-sul so that they appear as gy.</p> <p>376.54 m to 379.30 m - fl and amph-rich zone with fl ~ 10-15% of rock and amph ~3%, high sul content ~3%, fol 55°.</p> <p>389.73 m to 400.71 m - highly porosity of rock.</p> <p>@395.59 m - late stage Carb vn with REflc with no porosity.</p> <p>end of unit because REflcs are less and bio + WR clsts occur.</p> | | | | 250 |
| 400.74 | 444.93 | | | <p><u>bio dol-Carb (minor REflc)</u></p> | | | | 270 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>f.g. to m.g. medium gy (N5) dol-Carb with clsts of minor WR (qtz?) but mostly fenetised? indicated through the bio rim with majority throughout leaving bio clst behind, also bnds of bio. sul (py) are common and locky up to 5% within bio and WR clsts. REflc and fl are trace but flakes are within the whole unit, patches and bnds with higher concentration are rare and mostly within brcd dol-Carb. text varies but mostly mottled and or brcd. REflc are within bio + vnlets → so REflc mineralisation later? fl forms patches with later dol-Carb layers, text indicates flow?</p> <p>modal mineralogy: dol-Carb: 80%; bio: 10%; sul: 2-3%; REflc: ~ trace; fl: trace.</p> <p>415.55 m to 417.50 m - elevated REflc content, text: brcd dol-Carb with gy gdmass the text conditions fill ~422 m but REflc is less abnt.</p> <p>427 m to 427.64 m - fl patches common with flow? text, also from 429.55 m to 430 m.</p> <p>434.84 m to 436 m - more common REflc and again brcd dol-Carb with gy gdmass probably caused by micro-sul.</p> <p>436 m to 437.51 m - almost mass dol-Carb.</p> <p>437.51 m to 442.68 m - high bio content at top of unit mostly contained in clsts with increasing amounts @ end of unit bio is also in euh? steges (sp?) forming similar text than skeletal but less organized steges (sp?) up to 0.5 cm.</p> <p>442.68 m to 444.54 m - pk cc-Carb gdmass with abnt up to 1 cm bio steges (sp?), again similar than skeletal text but less organised.</p> <p>444.59 m to 444.93 m - almost mass dol-Carb with few v.f.g. bnds.</p> <p>EOH</p> <p><i>Note: Drilled in two intervals as ran out of rods during initial drill</i></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|----------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 11.24 | 15.31 | - | | <p>modal mineralogy - Glim 95%; dol-Carb 5%; suls trace</p> <p>interval ended because of sharp ctc with dol-Carb.</p> <p><u>dol-Carb</u></p> <p>v.f.g., ol-gy (5Y 4/1) to gr-gy (5GY 6/1) dol-Carb with trace fl (in patches and diss) and abnt bio (patches, clsts, infilling microfracs, diss). trace diss suls wkly bnded and hetero overall. (bndg runs ~45°-55° TCA)</p> <p>modal mineralogy - dol-Carb 90%; bio 5%; fl <5%; sul 5%; cc trace</p> <p>common itsl cc within dol-Carb, v.f.g.</p> <p>@12.20 m - ~5 cm (at max width) cr-w dol-Carb vn. v. patchy and hetero but runs ~ parallel TCA. within bnd is diss fl, bio and sul patches/vnlets, qtz clsts (1 cm max), sph diss throughout, and finally tan dol-Carb patches.</p> <p>few (late stage?) dol-Carb vns/bnds, v.f.g., y-gr-gy with sharp ctc, patchy (5 cm max). interval ended because ↑ fl content.</p> | bndg ~45°-55° TCA | | | 800 |
| 15.31 | 21.20 | - | A/B-T | <p><u>fl dol-Carb</u></p> <p>v.f.g. med lt gy (N6) to lt ol-gy (5Y 6/1) dol-Carb with perv fl bnds and patches and late stage vnlets x-cut. within fl patches is REflc (dk br-r) diss. wk to mod bndg throughout.</p> <p>modal mineralogy - dol-Carb 80%; fl 15%; REflc 5%; mag trace; suls trace</p> <p>@~16.15 m - increased REflc content within fl → ran ~2.5% on XRF.</p> | | | | 700 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 21.20 | 58.94 | - | | <p>@~18.90 m - v.f.g. y-gy late stage Carb vn x-cut dol-Carb then microfracs?/fl vnlets x-cut late stage vn and obvious x-cut relationships visible. late stage Carb vns throughout.</p> <p>rare to few 2-3 mm f.g. to v.f.g. b-gy bnds (eg. 16.56 m) of diss mag.</p> <p>few sul pockets and patches (py and sph and other suls) → euh py common, esp towards end. few qtz clsts rimmed with cr-w dol-fl clsts often have lines dol rim as well (~ 2 mm thick).</p> <p>fl generally becomes less perv down interval, making the core appear ltr, more gr-gy with y hue (but up to 40% in locld patches).</p> <p>within fl patches (specifically at 19.20 m), are v.f.g. y-br min → mnz? (trace).</p> <p>→ interval ended because of obvious decreased fl content and CPS. (600→400)</p> <p><u>dol-Carb</u></p> <p>v.f.g. med lt gy (N6) to lt gr-gy (5GY 8/1) to gr-gy (5GY 6/1). hetero interval. locky mottled, brc and patchy. wkly to mod bnded overall. fl content varies widely through interval from trace amounts up to 30% locky. in fl-rich areas, diss REflc often associated with these patches but is also found diss in trace amounts throughout.</p> <p>modal mineralogy - dol-Carb 85%; fl 10%; REflc <5%; other 5% itsl cc throughout interval.</p> <p>21.20 m to 22.00 m - healed fracs of fl with gy-w dol rim around (~1 mm or less) - few bdns with same text oriented ~40° TCA. healed fracs occur downhole as well.</p> <p>~24.50 m to 25.40 m - core v. broken up- naturally. lt og-br crust (lim?) <1 mm around broken faces- fault zone?</p> <p>@~23.18 m - withered crust becomes more r-br and also infills microfracs - hem?</p> | | | | 375 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 58.94 | 99.17 | | BD | <p><u>REflc dol-Carb</u></p> <p>v.f.g. y-gy (5Y 7/2) colour REflc Carb with abnt REflc (up to 50% locally) throughout → mainly as bnds but also diss and in fracs → mainly r-br in colour, but sections of bright og-br (bsn-prs?). mod-str bnded/foln overall, rare to trace fl patches and bnds and diss (fl always associated with REflc). abnt dk gy bnds and patches and vnlets throughout → mainly diss bio giving off gy colour but common sul ± sph as well. hetero overall (patchy to mottled psd-brc). sections of WR (itbd?) throughout which defines transition into BD-zone.</p> <p>modal mineralogy - dol-Carb 75-80%; REflc 15%; fl trace; bio +sph+ sul 5-10%</p> <p>few qtz clsts and bnds throughout. abnt dol clsts (<0.5 cm) throughout entire interval cr-w and helps define brc.</p> <p>@61.15 m - mod to str foln begins (45° to 56° TCA) - bnds are parallel to one another. before this fl exists independent of REflc as vnlets and healed microfracs → fl healed in microfracs is pretty common). gradual transition of fl + REflc beginning at 59.50 m diss.</p> <p>rare-minor itsl cc in sections (trace overall).</p> <p>few late stage Carb vns x-cut through → sharp ctc to dol-Carb. v.f.g., gr-gy-ol → often rimmed with <1 mm of bio and sul, bnds <5 cm (eg. 68.47 m, 68.86 m).</p> <p>bndg/foln remains v. consistent downhole - sublte variation (1-2°).</p> <p>69.00 m to 75.14 m (especially 69.73 m to 71.00 m) - foln is v. str! all bnds approximately 0.3 to 3 cm) all parallel to one another and oriented at 45° TCA.</p> | <p>foln 45° to 56° TCA</p> <p>41° TCA at 63.50 m</p> <p>42° TCA at 69.30 m (consistent!)</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|--|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 99.17 | 103.25 | - | | <p>REflc content generally increasing downhole. at 75.15 m to 75.30 m, ~60% locly! sections like this appear more downhole, this is just first appearance.</p> <p>from 73.85 m to 74.55 m and 75.90 m to 76.30 m - fl locly abnt! (5-10%) - diss in bnds. XRF always ran <2% TREO. these sections look subtly more brc.</p> <p>dol-Carb displays colour variations throughout the interval. generally though, ranges from a y-gy to a more w-gy look. w-gy Carb is slightly harder (more siliceous) while the y-gy is more patchy (ap? +/- mnz? within) y-gy definitely more abnt.</p> <p>@ 86.59 m - marks beginning of v. hetero part of interval. few dol bnds (+ REflc) but other than that, no real structure. at ~87.20 m, pk-gy (5YR 8/1) patch + vn with bio and sph rim → pk min=rhodochrosite? brc overall with abnt dol clsts bio vnlets + bnds + clsts, diss sul, etc. hetero interval ends at 96.00 m but reappears throughout. from 89.50 m to 89.72 m - abnt euh py cubed avg 2-3 mm.</p> <p>96.14 m to 96.40 m - core is v. vuggy and broken up → hit open cavity in sub-surface? vugs filled/lined with Fe-ox (lim? hem?) varies from tan-og-r.</p> <p>97.50 m to end - relatively homo y-gy dol-Carb with lt gy patches (bio and sph) and diss sul and trace REflc. interval ends because no REflc. start of ibd WR and Carb (sharp ctc).</p> | | | 88.75 | 420 |
| | | | | | | 89.50 | 450 | |
| | | | | | | | 250-300 | |
| | | | <p><u>dol-Carb</u></p> <p>v.f.g. cr-w to gy-y dol-Carb with abnt Glim sections throughout. y sections ap? abnt.</p> <p>Glim is mainly brc by Carb so it exists as stringers, vnlets, clsts and patches with itsl Carb throughout. some sections are more gy than blk → f.g. diss bio and sul mixed with Carb (fizzes).</p> | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 103.25 | 116.46 | - | BD | <p>euh mag xtals and bnds up to 4 mm.</p> <p>v. wkly fol-masked by brc.</p> <p>@101.95 m - small open vugs lined with Fe-ox (br-y colour, lim?).</p> <p>diss suls within Glim (trace).</p> <p>last ~10 cm heavily wthrd? brc. v.f.g. br-og throughout-itsl cc within. dol clsts (sub-rnd) and bio vnlets within. few gr-b clsts up to 1.5 cm, v. soft talc? (trace).</p> <p>modal mineralogy - dol-Carb 85%; Glim 15%; mag trace; suls trace; ap trace</p> <p>interval ended because sharp ctc with BD-zone.</p> <p><u>REflc dol-Carb</u></p> <p>v.f.g. y-gy to gy-w to tan dol-Carb with abnt REflc in bnds, vnlets and diss.</p> <p>difference between this interval and transtition is that this one has rare dk gy bnds and patches (bio and sul +/- sph). also, no fl (trace amount near bottom) in this section and dol-Carb is made of a tan colour (wthring product? compositional variation?) abnt perfect euh dol clsts within Carb-w (ltr coloured) and often around REflc (~3-4 mm avg.) at 107.00 m - dol clsts wthrd (?) to tan-br.</p> <p>abnt "micro" vugs with chalky og-br lining (lim?).</p> <p>wkly to mod bnded/foln overall with patchy/brc text overall. foln running 73° and up TCA.</p> | | | | 225 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 116.45 | 127.36 | - | | <p>112.05 m to 112.17 m - ~2 mm lt gr-y transparent bnds within Carb (ap?) → these reappear throughout interval.</p> <p>often REflc has cr-pk itsl min in and around it → Carb perhaps rxn between REflc and Carb creates this? one qtz vnlet at 114.25 m (2 mm wide) running ~ parallel TCA). ~1 cm talc bnd at 115.27 m.</p> <p>bndg ~47° TCA at 115.78 m. lots of variation in area, but this is most shallow occurrence.</p> <p>in last 1 m of interval, gradual decline in REflc content (gradual ctc to next unit).</p> <p>interval ended because REflc does not exist in abnt proportions anymore.</p> <p>aside: top ~20 cm v. broken up and vuggy-hit open cavity in subsurface?</p> <p>modal mineralogy - dol-Carb 80%; REflc 20%; bio+sul+/-sph trace; talc trace; qtz trace; fl trace; ap trace</p> <p><u>bio-rich WR</u></p> <p>litho wise, v. hetero! complex transition into cc-Carb, but overall brc and wkly foln.</p> <p>overall dk b-blk WR rich in bio with abnt itsl cc vnlets and diss suls. large bnds of dol-Carb (y-gy gy, (ap/ rich)).</p> <p>modal mineralogy - bio 75%; dol-Carb 10%; cc 10%; sul trace; dio/chl? trace; qtz 5%</p> <p>116.46 m to 119.00 m - ibd y-gy to y-gr-gy dol-Carb itbd with gy-blk bio-rich WR in WR portions, you can see Carb vnlets intruded with bio rimming these vnlets → fennitizaion!</p> <p>ap in dol-Carb? → y transparent sections-at 118.72 m, small REflc vnlet (trace).</p> | foln 73° TCA | | | 230 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 127.36 | 158.80 | - | | <p>115.94 m to 119.00 m - late stage Carb vns/bnd, sharp ctc, v.f.g. gy-ol-gr.</p> <p>119.00 m to end - bio-rich WR with common fennitization text. itsl cc and cc vnlets and bnds throughout. abnt diss sul within bio-rich portions. brc overall sometimes Carb look b → just from diss bio and sul in Carb. from 119.00 m to 119.42 m - b Carb with itsl cc and bio clsts up to 5 cm. bio grains are commonly platy and elongate. few late stage gr Carb vns.</p> <p>120.76 m to 121.14 m - bnd of cc-Carb nl abnt bio grains and sul and sph? sharp ctc to bio-rich WR.</p> <p>121.14 m to end - homo overall dk b-blk WR with mm sized cc vnlets (few bnds). few qtz bnds. 122.10 m to 122.26 m - common pastel gr min, v.f.g., hard min. it is si-rich (or occurs with qtz? - too f.g. to tell. chl? di?)</p> <p>interval ends because of sharp ctc with cc-Carb.</p> <p><u>amph calcium Carb</u></p> <p>f.g. suc and xtl n pk-dk br-cr w cc-Carb, locly patchy, mottled, speckled, streaky hetero unit. wkly bnded/foln overall. abnt amph (arf?) throughout, always occuring in cc-Carb bnds displaying dk b hue, all grains generally oriented the same way giving a streaky text to it. dk b hue also due to diss bio and sul within.</p> <p>still bio-rich WR sections, usually as clsts, but up to 3.10 m (eg. 132.30 m to 135.53 m and 148.11 m to 141.90 m and 155.89 m to 157.59 m). WR section that is 140.11 m to 140.90 m has interesting orientation to it. sharp ctc with cc-Carb at 42° TCA, and throughout reverses orientation from (vertical ~140.50 m), and ends with being oriented 47° TCA in opposite direction → xenolith was folded? sharp ctc on both ends.</p> <p>section of ol-gr to y-gy dol-Carb trace REflc within dol-Carb. dol-Carb v. patchy and no real structure to it - often looks like it is rextallized with cc-Carb? (eg. 138.50 m).</p> | | | | 275-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|-----------------|-----------------------------|-----------------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>few late stage dol-Carb vns, v.f.g. gy-gr sharp ctc (up to 9 cm).</p> <p>sometimes in cc-Carb there is pk cc patches and bnds that do not contain amph within, but bio and amph and sul b patches are all around it. (eg. 127.46 m and 127.60 m).</p> <p>aside from bio-rich WR sections, also bio clsts up to 7 cm throughout.</p> <p>modal mineralogy - cc-Carb 70%; dol-Carb 5%; bio 15%; amph 10%; suls trace; mag trace.</p> <p>@143.40 m - late stage Carb bndoriented 65° TCA.</p> <p>@144.32 m - first appearance of euh mag xtls. diss throughout cc-Carb and up to 0.5 cm, dk b-gy, met.</p> <p>also from 144.32 m to 155.40 m, sections of locl skeletal text?(not typical skeletal text but perhaps a subtle variation within cc-Carb). often defined by amph xtals in cc-Carb gdmass, but amph is v.f.g. (that's why not typical...).</p> <p>157.59 m to end - v.f.g. pale gr-y (10Y 8/2) with peachy-pk and gr patches in gdmass with abnt b-gy (amph and bio and sul) patches and bio vnlets x-cut through (especially ln last half). this section is interesting because it begins as delmite cc-Carb but gradually grades into dol-Carb (determined by HCl test) without changing text obviously only diff is that the dol-Carb has more bio vnlets and appears slightly more yellow with ltr and thicker gy-b patches (no amph in dol-Carb). foln remains consistent at ~56° TCA throughout.</p> <p>interval ends because previously described text ends with ~ sharp ctc with next unit.</p> | <p>@143.10 m - foln 64° TCA</p> <p>@147.25 m - foln 37° TCA</p> <p>@150.60 m - foln ~52° TCA</p> <p>@155.12 m - foln ~62° TCA</p> <p>foln ~56° TCA at 158.00 m</p> | <p>skeletal</p> | <p>146.75</p> <p>151.00</p> | <p>375</p> <p>420</p> |
| 158.80 | 179.62 | - | | <u>bio-rich silicified WR</u> | | | | 200 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v.f.g. dusky b (5PB 3/2) siliceous (qtz? albite?) WR with abnt amph diss throughout (30-40%) (v.f.g., looks like needles almost-displaying b colour) within dusky b gdmass is itsl cc vnlets ususally rimmed by bio and phl.</p> <p>also abnt pale pastel gr clsts and bnds generally always having sharp ctc to surrounding rock. sometimes transparent but more often has itsl carbonates within → making it opaque-v. hard! olv? dio? v.v.f.g. or almost impossible to know in hard sample. within cc vnlets ol-dusky b WR is often dk r-og min (REflc?). abnt bio and ph vnlets x-cut entire interval other portion of WR is still v.f.g. and siliceous but dk gy-br with more abnt cc within and abnt bio and phl rimming cc obvious fennitization has taken place. abnt diss sul within this section. this section also brc more finely than dusky b portion.</p> <p>throughout whole interval is few patchy cc-Carb bnds, slightly bnded and mottled eg. 162.65 m to 162.75 m oriented 58° TCA. 166.11 m to 166.21 m - bnd oriented ~70° TCA. other bnds are med b-gy (5B 5/1) and are silicified cc-Carb homo with the exception of few bio clsts and diss throughout eg. 168.10 m to 168.34 m.</p> <p>overall mod bnded/foln.</p> <p>few late stage v.f.g. cr-y bnds 1-3 cm.</p> <p>aside: first 65 cm v. unusual and doesn't fit this unit or previous dol-Carb with itsl cc with small open vugs and fl bnds locly oriented 51° TCA.</p> <p>whole interval is brc.</p> <p>modal mineralogy - (everthing v.f.g. and difficult to decipher) bio 15%; qtz? albite? 40%; cc 10%; dio? olv? 5%; amph 30%; suls trace; REflc trace</p> <p>interval ends because of large bnds of cc-Carb ibd with WR begins.</p> | | | | |
| | | | | | foln is 59° TCA | | 169.30 | |
| | | | | | foln is 57° TCA | | 172.75 | |
| | | | | | foln is 57° TCA | | 178.90 | |
| | | | | | foln is 57° TCA | | 179.35 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 179.62 | 203.30 | - | | <p><u>ibd siliceous WR and calcium Carb</u></p> <p>overall, ibd units of cc-Carb and silicified WR brc.</p> <p>cc-Carb has a wide colour variation from lt pk to cr-w to b-gr to b-gy etc. all v. mottled together and patchy but still displays str foln. abnt amph diss throughout (b colour). mod to abnt diss (euh) mag xtls and clusters in bnds (dkr b). most cc-Carb is patchy but rarely get a homo look in cc-Carb e.g. last m (202.30 m to 203.30 m) relatively homo gr-gy-w cc-Carb. another eg is 192.06 m to 193.25 m. ang bio clsts and clusters within cc-Carb.</p> <p>WR portions are siliceous (albite? qtz?) dusky b (rich in amph) or dk br-blk with abnt itsl cc vnlets x-cut and often surrounded by bio (fennitized). again v.f.g., hard pastel gr min present as clsts and bnds (olv? di?) → not as abnt! WR displays wk to mod foln (more finely bnded loclly). v. similar to previously described WR, but much less amph and more bio-rich. diss suls throughout.</p> <p>within cc-Carb there is often more y-gy sections (this occurs in bnds as well) - dol-Carb? ap-rich cc-Carb? (eg 198.05 m to 199.24 m).</p> <p>few late stage y-br dol-Carb vns oriented ~30°-40° TCA (eg 198.55 m).</p> <p>modal mineralogy - cc-Carb 40%; bio 20%; qtz? albite? 30%; amph 10%; mag trace; suls trace; dol-Carb 5%</p> <p>EOH</p> | foln ~55° TCA | | | 175 |
| | | | | | @186.75 m - foln 60° TCA | | | |
| | | | | | @201.23 m - foln ~57° TCA | | | |
| | | | | | | | 203.30 | 125 |

Handwritten signature and notes
06Q#223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------------------|
| Property: Eldor Property | Easting (m): 536104.07 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 13, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312163.03 | Rig Type: Discovery I | Date Completed: Jul 18, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 2.13 m | Note: Casing depth is not conclusive |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 447.45 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|--|-------------------------|-----------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 0.68 | OVB | | <u>Ovb</u> | | | | |
| 0.68 | 32.21 | dol-Carb | | <p><u>fl dol-Carb</u> colour: ol-gy, lt ol-gy (5Y 4/1, 5Y 6/1).</p> <p>modal mineralogy: dol: 92%, f.g., anh; fl: 6%, f.g., anh; py: 1% f.g., suh; REflc: 1%, f.g., anh; lim: trace, f.g. anh; qtz: trace, v.f.g., anh; sph: trace, v.f.g., anh.</p> <p>0.68 m to 6.27 m - v.f.g. gy-r-p perv REflc? 1%.</p> <p>0.68 m to 32.21 m - frac-rel lt br or alt, 60-80% intensity from 0.68 m to ~10.00 m: fl either frac-rel, perv patches or wispy bnds; common x-cut v.f.g. ol-gy to lt ol-gy dol-Carb dykes typically 1~2 cm. hetero, dominantly psd=brc, locally banded or overprinted.</p> <p>1.85 m to 2.61 m - x-cut mtx-sup dol-Carb brc dyke undulating along CA. f.g. to c.g. ang to sub-rnd dol clsts in v.f.g. to f.g. dol-Carb mtx with itsl fl.</p> <p>4.42 m to 4.75 m - cluster of x-cut dol-Carb dykes.</p> <p>6.27 m to 7.50 m - v.f.g. med r-br REflc? 3%.</p> <p>@7.31 m - increasing abundance of brittle frac fl.</p> | <p>@1.85 m - dyke ctc, sharp 17° TCA. @2.61 m - dyke ctc, sharp 21° TCA.</p> | <p>3.00</p> <p>6.00</p> | <p>680</p> <p>700</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 9.10 m to 9.32 m - pockets of brittle frac fl with f.g. w dol rim, rare x-cut qtz vnlets. @~10.00 m - v.f.g. med r-br REflc? in fl qtz. | | | 9.00 | 650 |
| | | | | 10.83 m to 12.79 m - abnt x-cut brittle frac fl and irregular, concentrated fl patches with f.g., y-gy (5Y 8/1) REflc? diss throughout. 7% f.g. suh py 11.73 m to 12.60 m. | | | 12.00 | 880 |
| | | | | 14.77 m to 15.55 m - clst-sup dol-Carb brc dyke, f.g. to v.c.g., ang to sub-rnded dol + dol-Carb clsts with itsl f.g. fl + bio + py + v.f.g. qtz. @14.77 m - dyke ctc, sharp 18° TCA. @15.55 m - dyke ctc, sharp 19° TCA. | | | 15.00 | 800 |
| | | | | 16.20 m to 20.10 m - dol-Carb dyke(s) undulating along CA. dyke(s) are ol-gy (5Y 3/2) with pale y-br (10YR 6/2) mottles + p (5P 2/2) fl. psd-brc apparance. | | | 18.00 | 980 |
| | | | | 20.10 m to 27.36 m - abnt x-cut ol-gy (5Y 3/2) dol-Carb dykes with pale y-br (10YR 6/2) mottles, itsl p (5P 2/2) fl. increases with depth. largest dykes 24.27 m to 24.95 m. x-cut dol-Carb dykes. sharp ctc's, 15-45° TCA, largest: 24.27 m to 24.95 m - 17° TCA. | | | 21.00 | 950 |
| | | | | @23.20 m - v.f.g. gy-r (5R 4/2) REflc? fl alt? | | | 24.00 | 760 |
| | | | | 27.36 m to 32.21 m - abnt brittle frac fill fl ± qtz throughout entire interval x-cut all other phases, x-cut ol-gy (5Y 3/2) dol-Carb dykes with pale y-br (10YR 6/2) mottles, preceding brittle frac fl, also common over interval. mod brown (5YR 3/4) v.f.g. REflc? (bsn?) mineralization throughout interval + v.f.g. v. pale og (10YR 8/2) pal? | | | 27.00 | 700 |
| | | | | 27.36 m to 32.21 m - v.f.g. mod br 95Y 3/4) REflc? (bsn?) = 3% to v.f.g. v. pale og (10YR 8/2) pal? trace. | | | | |
| | | | | 29.38 m to 29.55 m - qtz vnlets ± gal + sph. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|----------------------------------|---|-----|
| | | | | | | | DEPTH (m) | CPS |
| 32.21 | 41.50 | | | 31.53 m to 31.70 m - f.g. py patches + v.f.g. mod r-br (10R 4/6) lim ± v.f.g. cc. | ctc @ 41.50 m - grad → decreasing fl. | | 30.00 | 580 |
| | | | | ctc @32.21 m gradational, color lightens, change of fl mineralization style; ~5 cm BZ with lim and mm vugs, possibly small fault. | | | | |
| | | | | min CPS: 500; max CPS: 1000; avg CPS: 780. | | | | |
| | | | | <u>fl dol-Carb</u> colour: lt ol-gy, y-gy (5Y 6/1, 5Y 7/2). | | | | |
| | | | | modal mineralogy: dol: 94%, f.g., anh; fl: 5%, f.g., anh; bsn?: 1%, v.f.g. anh; py: trace, f.g., suh; qtz: trace, v.f.g., anh. | | | ctc @ 41.50 m - grad → decreasing fl. | |
| | | | | 32.21 m to 41.50 m - dispersed patches of fl over interval ± v.f.g. gy-r-p (5RP 4/2) REflc?. rare x-cut v.f.g. lt ol-gy dol-Carb dyklets. open frac + mm vugs with v.f.g. dusky red (5R 3/4) hem coating, often occurring with py. | | 32.21 m to 41.40 m - psd-brc. | 33.00 | 530 |
| | | | | 32.21 m to 41.50 m - v.f.g. gy-r-p (5RP 4/2) REflc? occurring with fl ~3%. approaching lower ctc. prox to up ctc. | | | | |
| | | | | 33.81 m to 35.06 m - shallow or vertical frac running along CA, f.g. to m.g. ang dol-Carb brc along frac planes, rare wugs with py infill + hem coating ~1 cm fl qtz vn 33.81 m to 34.00 m. prox to fault zone, visible litho displacement along frac. | | | 36.00 | 360 |
| | | | | 40.77 m to 40.93 m - v.f.g. lt ol-gy (5Y 5/2) x-cut dol-Carb dyke. 10° TCA, v.f.g. dusky r hem along sections of margins. | | | 39.00 | 360 |
| | | | | min CPS: 320; max CPS: 560; avg CPS: 400. | | | | |
| 41.50 | 75.38 | dol-Carb | | <u>dol-Carb</u> colour: lt ol-gy, dusky y (5Y 5/2, 5Y 6/4). | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | modal mineralogy: dol: 98%, f.g., anh; py: 1%, f.g., suh; qtz: 1%, v.f.g., anh; fl: trace, f.g., anh; amp: trace, f.g., anh; hem: trace, v.f.g., anh; lim: trace, v.f.g. anh. | | | | |
| | | | | 41.50 m to 57.85 m - lt gy (N7) dol mottles in v.f.g. lt ol-gy, perv dusky y mtx common x-cut v.f.g. lt ol-gy dol-Carb dykes patches of mm qtz pockets ± gy-gr (10G 4/2) amp → arf?; v. rare dispersed fl patches. | | 41.50 m to 48.00 m - mottled. | 42.00 | 350 |
| | | | | 41.50 m to 46.50 m - frac rel ox alt → v.f.g. dusky r (5R 3/4) hem, 60-80%. | | | 45.00 | 370 |
| | | | | 49.94 m to 50.25 m - x-cut v.f.g. lt ol-gy dol-Carb dykes @ shallow angles TCA. | @49.00 m → wk fol 25° TCA. | 48.00 m to 53.14 m - wk fol, subtle bnds. | 48.00 | 280 |
| | | | | 50.25 m to 51.00 m - med dk gy (N4) patches or stringers of v.f.g. sul? @53.14 up ctc of brc, irregular 54.67 m lower ctc of brc bounded by x-cut dol-Carb dyke ~15° TCA. | | | 51.00 | 340 |
| | | | | 53.14 m to 54.67 m - mtx-sup brc; v.f.g. lt ol gy dol-Carb mtx, with f.g. to v.c.g. sub-ang to rnded clsts. gy-og-pk (5YR 7/2) ap clsts present with trace dk r-br (10R 3/4) xnt? 0.06 m patch of f.g. bio + 3% f.g. lt br (5YR 6/4) sph + trace gal, cc. | @56.30 m - bndg 40° TCA. | 53.14 m to 54.67 m - mtx-sup brc | 54.00 | 470 |
| | | | | 56.08 m to 56.88 m - bnds of gy-gr (5G 5/2) stringers + bnds of p (5P 2/2) fl with v.f.g. gy-r-p (5RP 4/2) REflc?, mm vugs + open frac with hem coating/infill. | @58.00 m - fol 25° TCA. | | 57.00 | 400 |
| | | | | 57.85 m to 75.38 m - fol strengthens, increased frequency of gy-ol-gr (5GY 3/2) v.f.g. sul? bnds + dispersed fl patches with trace v.f.g. pale r-p (5RP 6/2) REflc? fol @ shallow angles TCA, micro faults present. | 63.20 m to 63.79 m - x-cut dol-Carb dyke @ 10° TCA, brcn along margin. | | 60.00 | 380 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|-----------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 75.38 | 138.29 | dol-Carb | | 61.57 m to 61.88 m - stringers of v.f.g. v. dusky r (10R 2/2) REflc? v. lt br (5YR 5/6) streak. | @69.33 m - bndng 25° TCA. | | 63.00 | 370 |
| | | | | @~62.50 m - mm vugs infilled or coated by v.f.g. dusky r (5R 3/4) hem ± f.g. py. | 70.50 m → bndng 15° TCA. | | 66.00 | 400 |
| | | | | 62.60 m to 63.78 m - x-cut v.f.g. lt ol-gy dol-Carb dykes @ shallow angles TCA. | @72.00 m → fol 15° TCA. | | 69.00 | 300 |
| | | | | 69.75 m to 72.00 m - ~3% dispersed patchy fl. | @72.36 m → sks @ 43° TCA. | | 72.00 | 340 |
| | | | | ctc @ 75.38 m sharp 50° TCA, lim on frac surface, mm vugs + 5 mm Myl? probable fault. | | | | |
| | | | | <u>REflc fl dol-Carb</u> | | | | |
| | | | | colour: lt ol-gy, y-gy (5Y 6/1, 5Y 7/2). | | | | |
| | | | | modal mineralogy: dol: 83%, f.g., anh; fl: 12%, f.g., anh; REflc: 5%, v.f.g., anh; py: trace, f.g., suh; qtz: trace, v.f.g., anh; hem: trace, v.f.g., anh; amp: trace, f.g., suh. | ctc @138.29 m grad, decreasing fl. | | | |
| | | | | 75.38 m to 138.29 m - f.g. dol mottles with patchy or pervasive itsl p fl + v.f.g. pale r-p to pale r-br REflc? wk to mod fol throughout, common x-cut v.f.g. lt ol-gy dol-Carb dykes. rare brittle frac fill fl ± qtz. Reflc? 5%. | @78.00 m - bndg 22° TCA. | 75.38 m to 80.10 m - bnded. | 75.00 | 450 |
| | | | | @79.05 m - bnded x-cut v.f.g. lt ol-gy to ol-gy dol-Carb dyke @ 15° TCA, 1% f.g. py in ol-gy bnds. | @80.00 m - subtle bndg 30° TCA. | | 81.00 | 360 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 83.60 m to 84.50 m - frac-rel dusky r (5R 3/4) hem? ± f.g. suh py; rare mm vugs with hem? infill or coating. | | 80.10 m to 94.45 m - mottled, locl bndg. | 84.00 | 370 |
| | | | | 84.50 m to 87.00 m - 1% f.g. frac rel py; few x-cut fl ± qtz vnlets with f.g. drusy dol rim. | | | 87.00 | 390 |
| | | | | 87.66 m to 94.45 m - reduced fl, cm scale x-cut dol-Carb dykes undulating along CA; few hydrothermal qtz or qtz-fl vns with f.g. drusy dol rim. locl brcn along x-cut dol-Carb dyke margins. perv v.f.g. lt br (5YR 6/4). REflc? throughout. | 94.45 m to 138.29 m - fol @ shallow angles TCA. | 94.45 m to 138.29 - mottled, wk to med fol, locl psd-brc. | 90.00 | 440 |
| | | | | 94.45 m to 102.31 m - common mm x-cut qtz vnlets, bleached zones and qtz patches replacing? fl. | @99.3 m - fol, 11° TCA. | | 93.00 | 360 |
| | | | | 103.50 m to 107.00 m - common mm x-cut fl or qtz-fl vnlets. | @99.6 m - ~1 cm qtz vn 45° TCA. | | 96.00 | 350 |
| | | | | 103.63 m to 103.82 m - x-cut lt ol-gy qtz impregnated dol-Carb dyke with v.f.g. lt br (5YR 6/4) min, mnz? | @103.75 m - fol 5° TCA | | 99.00 | 310 |
| | | | | 115.50 m to 119.70 m - reduced fl, sparse amp + qtz patches. | 107.00 m to 110.00 m - fol undulates along CA. | | 102.00 | 290 |
| | | | | 119.50 m to 120.00 m - v.f.g. mod pk (5R 7/4) REflc? fl alt? | 121.00 m - fol 10° TCA. | | 105.00 | 290 |
| | | | | | | | 108.00 | 280 |
| | | | | | | | 111.00 | 270 |
| | | | | | | | 114.00 | 270 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|--|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 138.29 | 142.30 | dol-Carb | | 122.60 m to 123.10 m - zoned x-cut y-gy to pale y-br v.f.g. dol-Carb dyke(s). | 122.10 m to 123.10 m x-cut dol-Carb dykes, 30° TCA. | | 117.00 | 300 |
| | | | | 124.00 m to 132.50 m - few x-cut qtz vnlets, patches of qtz ± amp; fl typically diminished where modal qtz increases. | @124.25 m - fol 15° TCA. | | 120.00 | 320 |
| | | | | @133.05 m - ~6 cm sub-ang gy dol-Carb clst. | @133.00 m - fol strengthens. | | 123.00 | 440 |
| | | | | 133.48 m to 133.70 m - v.f.g. dusky r hem ± lt br lim coating + frac surfaces; mm vugs with hem ± lim ± py infill/coating. | @133.25 m - fol 25° TCA. | | 126.00 | 310 |
| | | | | 134.00 m to 134.50 m - few x-cut v.f.g. lt gy to lt ol-gy dol-Carb dykes, fol distortion. | @135.00 m - fol 20° TCA. | | 129.00 | 280 |
| | | | | @137.60 m - x-cut qtz vnlet, prox pale r-br fl - alt? | | | 132.00 | 310 |
| | | | | 138.00 m to 138.29 m - x-cut v.f.g. dol-Carb dyke @ 7° TCA. | | | 135.00 | 320 |
| | | | | min CPS: 260; max CPS: 440; avg: 310. | | | 138.00 | 325 |
| | | | | <u>fl dol-Carb</u> colour: y-gy, pale ol (5Y 7/2, 10Y 6/2). | | | | |
| | | | | modal mineralogy: dol: 91%, f.g., anh; fl: 7%, f.g., anh; REflc: 2%, v.f.g., anh; qtz: trace, f.g., anh; amp: trace, f.g., anh; py: trace, f.g., anh. | | | | |
| 138.29 m to 142.13 m - f.g. to m.g. sub-rnded to rnded dol clsts with perv itsl fl; mod fol @ shallow angles TCA, locly distorted, common v.f.g. gy-gr sul? stringers throughout. lt colouration where modal qtz increases and apparent decrease in fl. | 138.29 m to 142.13 m - mod fol, mottled. | | 142.00 | 280 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 142.30 | 154.67 | dol-Carb | | <p>142.13 m to 142.30 m - mtx-sup brc → v.f.g. gy dol-Carb mtx with f.g. frac fill py + gy gr sul? stringers; f.g. to c.g. sub-ang to sub-rnd v. lt gy dol-Carb clsts.</p> <p>min CPS: 220; max (142.13 m to 142.30 m) CPS: 340; avg CPS: 280.</p> <p><u>fl dol-Carb</u> colour: y-gy, lt ol-gy (5Y 8/1, 5Y 6/1).</p> <p>modal mineralogy: dol: 94%, f.g., anh; fl: 5%, f.g., anh; qtz: 1%, v.f.g., anh; py: trace, f.g., anh; amp: trace, f.g., anh; hem: trace, v.f.g., anh; lim: trace, v.f.g., anh.</p> | <p>ctc @142.30 m grad, decreasing fl, increasing qtz.</p> | <p>142.13 m to 142.30 m - brc, mtx-sup, f.g. to c.g. sub-ang to sub-rnd clsts.</p> | | |
| | | | | <p>142.30 m to 152.22 m - diss ang fl chunk ± wkly perv patchy fl; few x-cut lt ol-gy v.f.g. dol-Carb dykes; overall colouration darkens toward 154.67 m → ol-gy, med ol-br (5Y 4/1, 5Y 4/4); rare brittle frac fill fl ± qtz; rare x-cut qtz vnlets.</p> | <p>ctc @154.67 m sharp, 48° TCA, sks.</p> | <p>142.30 m to 154.67 m - psd-brc.</p> | 143.00 | 300 |
| | | | | <p>147.80 m to 148.75 m - rare mm vugs, lt br ox alt on open frac surfaces.</p> | | | 146.00 | 310 |
| | | | | <p>149.46 m to 149.48 m - mm vugs infilled or coated by v.f.g. dusky r hem ± lt br lim.</p> | | | 149.00 | 340 |
| | | | | <p>151.04 m to 151.21 m - patches of m.g. ang fl clsts?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-------------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 154.67 | 160.50 | dol-Carb | | <p>152.22 m to 154.67 m - psd-brc with patches of mtx-sup brc → sub-ang to rndd clsts; ol-gy to mod ol-br colouration; frac-rel hem ± lim; trace fl, sharp ctc's. upper ctc @ 152.22 m, sharp 55° TCA, possible sks with ctc @ 154.67 m sharp 48° TCA, sks → C7, polished surface.</p> <p>min CPS: 260; max (152.22 m to 154.67 m) CPS: 480; avg CPS: 310.</p> <p>dol-Carb colour: y-gy, pale ol (5Y 7/2, 10Y 6/2).</p> <p>modal mineralogy: dol: 96%, f.g., anh; fl: 3%, f.g., anh; qtz: 1%, v.f.g., anh; REflc: trace, v.f.g., anh; py: trace, f.g., suh; cc: trace, v.f.g., suh.</p> | | | 152.00 | 360 |
| | | | | <p>154.67 m to 160.50 m - lt gy dol mottles in perv y-gy to pale ol mtx; diss fl patches, rare brittle frac fill ± qtz; mm vugs ± v.f.g. cc coating dispersed throughout interval, rare x-cut lt ol-gy v.f.g. dol-Carb dykes.</p> | ctc @ 160.50 m grad, decreasing fl. | 154.67 m to 160.50 m - psd-brc, wk locl fol. | 155.00 | 350 |
| | | | | <p>155.55 m to 155.90 m - frac-rel lt br lim + mm vugs with cc infill or coating.</p> <p>min CPS: 280; max CPS: 400; avg CPS: 320.</p> | | | 158.00 | 350 |
| 160.50 | 193.00 | dol-Carb | | <p>dol-Carb colour: y-gy, pale ol (5Y 7/2, 10Y 6/2).</p> <p>modal mineralogy: dol: 98%, f.g., anh; qtz: 1%, v.f.g., anh; py: 1%, f.g. suh; fl: trace, f.g., anh; REflc: trace, v.f.g., anh; lim: trace, v.f.g., anh; amp: trace, f.g., anh; cc: trace, v.f.g., anh.</p> | ctc @ 193.00 m grad increasing fl. | | | |
| | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|-----------|---------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 193.00 | 200.50 | dol-Carb | | 160.50 m to 193.00 m - lt gy dol mottles in perv y-gy to pale ol mtx; rare patches of f.g. diss fl, v.f.g. dk gr-gy sul? stringers throughout ± f.g. py; few x-cut lt ol-gy dol-Carb dykes; amp patches dispersed through qtz enriched zones. | | 160.50 m to 175.87 m - psd-brc. | 161.00 | 330 |
| | | | | 164.75 m to 166.44 m - x-cut brittle frac qtz vnlets ± fl. | | | 164.00 | 300 |
| | | | | 167.00 to 167.50 m - fault zone → broken core, mm vugs, frac-rel lim, brittle fracs. | | | 167.00 | 280 |
| | | | | 166.44 m to 168.00 m - frac-rel lt br v.f.g. lim ± mm vugs with cc infill or coating. | | | 170.00 | 310 |
| | | | | 168.00 m to 169.75 m - x-cut brittle frac qtz vnlets ± fl. locl CPS highs in mass Carb. | | | 173.00 | 280 |
| | | | | | | | 176.00 | 290 |
| | | | | 175.87 m to 186.60 m - mottled to mass locl psd-brc, locl brc. | | | 179.00 | 310 |
| | | | | 180.34 m to 180.50 m - x-cut mtx-sup dol-Carb brc dyke; f.g. to m.g. sub-ang to sub-rnded w dol-Carb clsts in v.f.g. pale ol (10Y 6/2) mtx; trace qtz, py. upper ctc @ 19°TCA, lower ctc @ 19° TCA. | | | 182.00 | 390 |
| | | | | 181.90 m to 181.97 m - diss f.g. suh dk gy mag. | | | 185.00 | 400 |
| | | | | 186.60 m to 193.00 m - psd-brc, locl brc. | | | 188.00 | 380 |
| 192.93 m to 192.98 m - x-cut v.f.g. lt ol-gy dol-Carb dyke @ 40° TCA. | | 191.00 | 320 | | | | | |
| min CPS: 260; max CPS: 440; avg CPS: 320. | | | | | | | | |
| <u>dol-Carb</u> | | | | | | | | |
| colour: y-gy, lt gy (5Y7/2, N7) | | | | | | 194.00 | 300 | |
| modal mineralogy: dol: 94%, f.g., anh; fl: 3%, f.g. anh; amp: 1%, f.g. anh; qtz: 1%, v.f.g. anh; py: 1%, f.g. suh; Reflc: trace, v.f.g. anh. | | | | | | 197.00 | 300 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|-----------------------------|------------------|---------------------|--|---------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 200.50 | 232.64 | dol-Carb | | 193.00 to 200.50 m - psd-brc. lt gy dol mottles in perv y-gy mtx; patches of diss f.g. fl ± v.f.g. pale r-p REflc; patches of dusky b-gr (5BG 3/2) amp - arf? = v.f.g. to f.g. qtz. 198.00 to 198.70 m dense vs. dusky p (5P 2/2) fl patches and v.f.g. pale r-p REflc. ctc @ 200.50 m gradational, decreasing fl. | | | 200.00 | 280 |
| | | | | min CPS: 260; max CPS: 320; avg: 290. | | | | |
| | | | | dol-Carb colour: lt ol-gy, med gy (5Y 6/1, N5). | | | | |
| | | | | modal mineralogy: dol: 98%, f.g., anh; qtz: 1%, f.g., anh; py: 1%, f.g., anh; fl: trace, f.g., anh; amp: trace, f.g., anh; cc: trace, v.f.g., anh. | ctc @232.64 m - sharp, sks @ 25° TCA. | | | |
| | | | | 200.50 m to 232.64 m - v.f.g. to f.g. lt ol-gy to med gy dol-Carb; fol strengthens as depth increases with common brittle fracs + v.f.g. dk gr-gy to dk gy sul? stringers; stylolites present; rare x-cut v.f.g. lt ol-gy dol-Carb dykes. | | | | |
| | | | | 200.50 m to 206.65 m - mottled to mass, wk locl fol. | | | | |
| | | | | 202.25 m to 202.40 m - brittle frac qtz vnlets + pockets. | | 203.00 | 290 | |
| | | | | 205.55 m to 205.64 m - mm vugs with cc coating or infill. | @208.00 m → fol 30° TCA. | 206.00 | 270 | |
| 206.65 m to 221.50 m - mod fol, psd-brc bnds. | | 209.00 | 240 | | | | | |
| 209.70 m to 217.00 m - stylolites common. | @210.50 m → fol 25° TCA. | 212.00 | 230 | | | | | |
| 216.15 m to 216.58 m - shallow angle frac coated with v.f.g. gr-blk (5GY 2/1), soft, serp?. few cm pockets of v.f.g. gr-blk serp?, common stylolites. | 215.50 m → fol 10° TCA. | 215.00 218.00 | 210 210 | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 232.64 | 265.00 | dol-Carb | | 221.50 m to 229.00 m - mottled to mass, locl psd-brc. | | | 221.00 | 270 |
| | | | | 226.00 m to 226.15 m - frac-rel v.f.g. lt br lim. | | | 224.00 | 270 |
| | | | | 229.00 m to 232.64 m gras fol, psd-brc bnds. | | | 227.00 | 280 |
| | | | | 230.25 m to 230.86 m - vert frac with lt br ox - alt. | | | 230.00 | 260 |
| | | | | min CPS: 190. | | | | |
| | | | | <u>dol-Carb</u> colour: lt gy, y-gy (N7, 5Y 7/2). modal mineralogy: dol: 95%, f.g., anh; fl: 3%, f.g., anh; qtz: 1%, f.g., anh; py: 1%, f.g., suh; amp: trace, f.g., suh; REflc: trace, v.f.g., anh. | | | | |
| | | | | 232.64 m to 265.00 m - lt gy dol with perv itsl y-gy mtz; patchy diss f.g. p fl; x-cut brittle frac qtz or fl - qtz vnlets; patches of f.g. dusky b-gr amp → arf ± qtz ± py. rare x-cut v.f.g. dol-Carb dykes. | ctc @ 265.00 m grad decreasing fl. | 232.64 m to 245.38 m - mottled locl psd-brc. | 233.00 | 230 |
| | | | | 232.64 m to 237.00 m - common amp ± qtz ± py patches. | @246.30 m → bndg, 35° TCA. | | 236.00 | 210 |
| | | | | | | | 239.00 | 205 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---|------------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 245.38 m to 253.50 m - v.f.g. dk gr-gy (5G 4/1) sul? stringers ± f.g. suh py; stringers align with bndg/fol. | @250.500 m → bndg 37° TCA. | 245.38 m to 255.00 m - bnded psd-brc, mod fol. | 242.00 | 260 |
| | | | | 254.00 m to 258.25 m - v.f.g. lt br (5YR 6/4) fracs rel mnz? | @252.50 m → bndg 50° TCA. | 255.00 m to 265.00 m - mottled, locl psd- brc + bndg. | 245.00 248.00 | 280 270 |
| | | | | 255.00 m to 258.00 m - few stylolites. | | | 251.00 254.00 | 240 240 |
| | | | | 259.00 m to 265.00 m - common x-cut brittle frac qtz vnlets ± fl. | 259.00 m to 265.00 m - x- cut brittle frac qtz vnlets 60- 75° TCA. | | | |
| | | | | 259.00 m to 265.00 m - common x-cut brittle frac qtz vnlet ± fl. diss v.f.g. pale v.f.g. pale r-br REflc? 1%. | | | 257.00 | 270 |
| | | | | 261.21 m to 261.58 m - 1 cm thick x-cut qtz vn @ 5° TCA; v.f.g. med r REflc? dispersed throughout. | | | 260.00 | 280 |
| | | | | @264.26 m - x-cut br-gy qtz vn @ 40° TCA, trace py. | | | 263.00 | 280 |
| | | | | min CPS: 180; max CPS: 340; avg CPS: 270. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|--|--|-----------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 265.00 | 275.65 | | | <p><u>dol-carb</u> colour: y-gy, pale ol (5Y 7/2, 10Y 6/2).</p> <p>modal mineralogy: dol: 98%, f.g., anh; qtz: 1%, v.f.g., anh; py: 1%, f.g., suh; fl: trace, f.g., anh; REflc: trace, f.g., anh.</p> <p>265.00 m to 275.65 m - lt gy dol mottles in perv itsl y-gy to pale ol mtx; common v.f.g. gr-blk (5G 2/1) sul? stringers ± f.g. py throughout; rare stylolites.</p> | ctc @275.65 m grad increasing fl. | 265.00 m to 275.65 m - mottled wk fol + locl bndg. | 266.00 | 280 |
| | | | | | | | 269.00 | 280 |
| | | | | | | | 272.00 | 240 |
| | | | | | | | 275.00 | 230 |
| 275.65 | 290.30 | dol-Carb | <p><u>fl dol-Carb</u> colour: lt gy, y-gy (N7, 5Y 7/2).</p> <p>modal mineralogy: dol: 94%, f.g., anh; fl: 5%, f.g., anh; REflc: 1%, v.f.g., anh; qtz: trace, v.f.g., anh; py: trace, f.g., suh; amp: trace, f.g., anh.</p> <p>275.56 m to 290.30 m - mottled, wk fol + locl bndg. lt gy dol mottles with perv itsl y-gy to pale y-br mtx; diss fl patches throughout ± v.f.g. pale r-p REflc; fol strengthens as depth increases; common mm x-cut brittle frac qtz vnlets ± fl.</p> | ctc @290.30 m grad, increasing REflc, decreasing fl. @281.00 m → bndg 33° TCA. @284.00 m → fol 25° TCA. | 278.00 | 270 | | |
| | | | | | 281.00 | 280 | | |
| | | | | | 284.00 | 270 | | |
| | | | | | 287.00 | 260 | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 290.30 | 356.40 | dol-Carb | | 288.00 m to 290.30 m - reduced fl. | @289.00 m → fol 35° TCA. ctc @356.40 m sharp, fault zone. | 282.00 m to 290.30 m - mod fol, bnded psd-brc. | 290.00 | 280 |
| | | | | <u>REflc dol-Carb</u> colour: lt gy, med dk gy (N7, N4). | | | 293.00 | 250 |
| | | | | modal mineralogy: dol: 93%, f.g., suh; REflc: 5%, f.g., anh; qtz 1%, v.f.g., anh; py: 1%, f.g., suh; fl: trace, f.g., anh. | | | 296.00 | 290 |
| | | | | 290.30 m to 356.40 m - lt to med dk gy dol-Carb with diss mod r to mod r-br REflc → bsn/prs (BD zone). rare mm vugs. few x-cut v.f.g. v. lt gy to y-gy dol-Carb dykes, ± v.f.g. mod r to mod r-br REflc. | | | 299.00 | 290 |
| | | | | | | | 302.00 | 280 |
| | | | | | | | 305.00 | 270 |
| | | | | | | | 308.00 | 230 |
| | | | | | | | 311.00 | 230 |
| | | | | | | | 314.00 | 300 |
| | | | | 312.15 m to 325.50 m - x-cut v.f.g. y-gy to v. lt gy (5Y 8/1, N8) @ shallow angles to or undulating along CA; dykes either impregnated by mod r REflc or REflc @ dyke margins; locl psd-brc + locl bndg distortion. | | | 318.00 | 290 |
| | | | | 340.80 m to 356.40 m - fol strengthened, frequent med to med dk gy bnds with f.g. to m. anh to euh pcc?; rare Glim stringers. | | | 321.00 | 275 |
| | | | | | | | 324.00 | 250 |
| | | | | | | | 327.00 | 250 |
| | | | | | | | 327.00 | 250 |
| | | | | | | | 330.00 | 230 |
| | | | | | | | 333.00 | 220 |
| | 336.00 | 230 | | | | | | |
| | 339.00 | 260 | | | | | | |
| | 342.00 | 280 | | | | | | |
| | 345.00 | 275 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|---|-----------|-----------|------------------|--|--|--|---|------------------------------------|------------------------------------|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 356.40 | 379.05 | dol-Carb | | <p>min CPS: 200; max CPS: 325; avg CPS: 260.</p> <p><u>dol-Carb</u> colour: med gy, lt gy (N5, N7).</p> <p>mineralogy: dol: 98%, f.g., anh; REflc: 1%, f.g., anh; py: 1%, f.g., suh; qtz: trace, f.g., anh; fl: trace, f.g., anh; bio: trace, f.g., anh; cc: trace, v.f.g., v.f.g., anh.</p> | ctc @ 379.05 m grad, increasing REflc. | 356.40 m to 359.00 m - mtx-sup brc, f.g. to c.g. sub-ang to sub-rnded clsts. | 348.00 | 280 | | | |
| | | | | | | | 351.00 | 290 | | | |
| | | | | | | | 354.00 | 290 | | | |
| | | | | | | | 357.00 | 314 | | | |
| | | | | | | | 356.40 m to 357.50 m - fault zone, core broken, vertical fracs, mm vugs, cm cavities with euh dol, qtz, and py xtls, skl visible on frac surfaces. | 356.40 m to 357.50 m - fault zone. | 359.00 m to 362.50 m - wk fol pcc. | 360.00 | 320 |
| | | | | | | | 356.40 m to 379.05 m - hetero med gy to lt gy or lt ol-gy dol-Carb; brittle fracs + f.g. gr-blk sul? sutures common throughout; diss v.f.g. sutures common thoroughout; diss v.f.g. mod r REflc → sparse Glim patches and stringers; fol strenghtens depth increases; few x-cut med gy v.f.g. dol-Carb dykes, often cm scale. | | | 363.00 | 330 |
| | | | | | | | | | | 366.00 | 310 |
| 362.50 m to 364.80 m clst-sup brc, f.g. to c.g. sub-ang to rnded clsts. | | | 369.00 | 280 | | | | | | | |

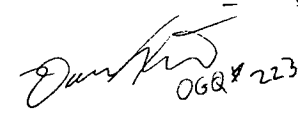
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 379.05 | 391.18 | dol-Carb | | 372.90 m to 375.25 m - abnt Glim stringers → f.g. bio + v.f.g. cc | @372.55 m → shear bndg? 50° TCA. | 364.80 m to 371.50 m - mottled to mass. | 372.00 | 280 |
| | | | | 376.00 m to 377.50 m - f.g. fl bnds. | @377.00 m → bndg 40° TCA. | 371.50 m to 379.05 m - wk fol, locly bnded or pcc? | 375.00 | 250 |
| | | | | min CPS: 190; max CPS: 345; avg CPS: 270. | | | | |
| | | | | <u>REflc dol-Carb</u> colour: lt gy, med gy (N7, N5) | | | | |
| | | | | modal mineralogy: dol: 94%, m.g., anh; REflc: 5%, v.f.g., anh; qtz: 1%, f.g., anh; fl: trace, f.g., anh; py: trace, f.g., suh; cc: trace, v.f.g., anh. | ctc @ 391.18 m sharp, irregular. | | | |
| | | | | 379.05 m to 391.18 m - lt to med gy dol-Carb with diss bnds of v.f.g. med r REflc → bsn/prs? throughout; rare x-cut v.f.g. lt ol-gy dol-Carb dykes. frequent bnds with f.g. to m.g. anh to euh (rhomb) dol pcc? pbls? common mm scale x-cut brittle frac qtz vnlets. | @380.00 m → bndg 60° TCA. | 379.05 m to 391.18 m - bnded, wk to mod fol, locly pcc? | 381.00 | 210 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|---|------------------------------------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 391.18 | 424.48 | Carb (fen?) | | 379.05 m to 391.18 m - v.f.g. diss mod r REflc → bsn/prs? | @385.00 m → bndg 40° TCA. | | 384.00 | 210 |
| | | | | @384.70 m - x-cut qtz vn @ 25° TCA, vuggy margins. | @389.00 m → bndg 35° TCA. | | 387.00 | 210 |
| | | | | min CPS: 180; max CPS: 230; avg CPS: 215. | @379.05 m to 391.18 m - brittle frac qtz vnlets 45-50° TCA. | | 390.00 | 220 |
| | | | | <u>bio calcium dol-Carb</u> | | | | |
| | | | | colour: y-gy, med dk gy (5Y 8/1, N4) | | | | |
| | | | | side note regarding "Carb" designation in Rock Type column: (fenite?) | | | | |
| | | | | modal mineralogy: dol: 40%, f.g., anh; cc: 35%, f.g., suh; bio: 20%, f.g., suh; py: 3%, f.g., suh; qtz: 2%, v.f.g., anh; fl: trace, f.g., anh; REflc: trace, v.f.g., anh; mag: trace, f.g., suh; amp: trace, f.g., anh. | | | | |
| 391.18 m to 424.48 m - fenitized? Carb; abnt bio ± py stringers, cc pervades core through variable distribution; frequent locl brcs either clst or mtx-sup with dominantly f.g. to m.g. ang to sub-rnd clsts; few lt ol-gy v.f.g. x-cut dol-Carb dykes ± mag. common "Glim" ibds. | ctc @ 424.48 m grad, increasing cc, euh bio. | 391.18 m to 392.22 m - mass. | 393.00 | 250 | | | | |
| | | | 396.00 | 315 | | | | |
| 391.18 m to 392.22 m - Glim, brcd irregular ctc's with Carb → 80% f.g. suh bio, 15% v.f.g. anh cc, 5% | | | 399.00 | 250 | | | | |
| | | | 402.00 | 225 | | | | |
| 392.22 m to 405.00 m - mottled psd-brc, locl brc, locl bndg. | | | 405.00 | 200 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|----------------|---------------------|---|--------------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 424.48 | 447.45 | Carb (fen?) | | 405.00 m to 408.76 m - y-gy f.g. dol-Carb with diss mod r REflc; fenitized? ibd 407.10 m to 407.53 m. | @405.00 m ctc @37° TCA, sharp. | 405.00 m to 408.76 m - mass, locl bndg. | 408.00 | 240 |
| | | | | 408.76 m to 424.48 m - hetero → mottled, mass, psd-brc. | @408.76 m ctc @ 45° TCA. | | 411.00 | 285 |
| | | | | 412.30 m to 413.35 m - brcd Glim/dol-Carb ibd. | | | 414.00 | 300 |
| | | | | 416.02 m to 417.61 m - Glim interbed. | | | 417.00 | 245 |
| | | | | 419.77 m to 421.44 m - Glim interbed. | | | 420.00 | 230 |
| | | | | 422.30 m to 422.75 m - Glim interbed. | | | 423.00 | 215 |
| | | | | min CPS: 280; max CPS: 315; avg CPS: 240. | | | | |
| | | | | <u>dol bio cc-Carb?</u> | | | | |
| | | | | colour: pk-gy, dk gy (5YR 8/1, N3). | | | | |
| | | | | side note regarding "Carb" designation in Rock Type column: (fenite?) | | | | |
| | | | | modal mineralogy: cc: 65%, f.g., anh; bio: 25%, m.g., euh; dol: 5%, f.g., anh; qtz: 2%, v.f.g., anh; py: 2%, f.g., suh; mag: 1%, m.g., suh; REflc: trace, v.f.g., anh; amp: trace, f.g., anh. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 424.48 m to 447.45 m - y-gy to pk-gy or dk gy cc-Carb? fenite?; Glim patches and stringers throughout; m.g. euh bio throughout → psd-morph or replacement?; m.g. bio in f.g. cc-Carb gives "prtc" appearance. rare dol-Carb ibds; rare x-cut v.f.g. lt ol-gy dol-Carb dykes ± f.g. suh mag. @432.00 m - ~6 cm x-cut v.f.g. lt ol-gy dol-Carb dyke with f.g. suh mag. @439.50 m - ~9 cm x-cut v.f.g. lt ol-gy dol-Carb dyke. 441.62 m to 444.27 m - Glim ibd, dominantly clst-sup brc with f.g. to c.g. ang to sub-rnded clst. 443.50 m to 44.27 m f.g. to m.g. anh to euh relict? dol grains → chalky w appearance. min CPS: 170; max CPS: 240; avg CPS: 205. EOH | ctc @ 447.45 m = EOH. | 424.48 m to 447.45 m - mottled to mass. | 426.00 | 210 |
| | | | | | | | 429.00 | 205 |
| | | | | | | | 432.00 | 230 |
| | | | | | | | 435.00 | 215 |
| | | | | | | | 438.00 | 210 |
| | | | | | | | 441.00 | 240 |
| | | | | | | | 444.00 | 200 |
| | | | | | | | 447.00 | 190 |

GEOLOGICAL DRILL LOG



| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--------------------------|
| Property: Eldor Property | Easting (m): 536101.36 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 19, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312214.95 | Rig Type: Discovery I | Date Completed: Jul 23, 2011 | Survey Tool: FlexIT (SS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 142.34 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 4.57 | - | | <u>Ovb</u> core not recovered | | | | |
| 4.57 | 25.50 | - | A | <u>f.g. poorly bnded to mottled dol-Carb</u> shades of med(?) lt gr with p zones. the Carb is f.g., eqgr, suc text. the overall text is rather chaotic with m.g. colour mottling in shades of lt to med gr dominating. this mottled text may be fine (ie 12.4 - 12.8) but most is medium (cm scale) almost no preferred orientation or cataclastic text. the "mottles" are interlocked ameboid fashion. p areas are relatively rich in fl as thin zones subrnding Carb mottles (in patches) irregular frac filling and f.g. to m.g. dissemenations. fl everywhere in interval with concentrations fl - rich zones: 9.8 - 9.95 (mod), 10.6 - 11.05 (wk), 13.15 - 13.25 (wk), 13.6 - 14.05 (wk), 15.7 - 15.85 (mod), 17.6 - 17.75 (str), 21.45 - 22.9 (wk, itsl to fine mottles). fracd zone, infilled with "vns" of f.g. Carb fl py rock up to 22 cm thick: 23.8 - 25.35 ave 35% of these f.g. "vn". some pale y min with Carb fl. lower ctc grad, set and decrease in mottle text intensity. finely vuggy patches: 20.3 - 21.15, vugs rusty surficial wthg. | | mottled | 4.5-11.7 | 450-550 |
| | | | | | | | 11.7-16.5 | 630-730 |
| | | | | | | | 16.5-18.7 | 550-70 |
| | | | | | | | 18.7-27.5 | 450-550 |
| | | | | | | | 27.5-30.7 | 550-650 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 25.50 | 48.85 | - | A | interval contains minor ol-gr, thin 2<cm late v.f.g. Carb dykes | | | 30.7-36.7 | 450-550 |
| | | | | (4.5 to 11.7 m - 450 - 550), (@16.5 m - 630 - 730), (@18.7 m - 550 - 700), (@27.5 m - 450 - 550), (@30.7 m - 550 - 650), (@36.7 m - 450 - 550). | | | | |
| | | | | <u>wkly colour mottled dol-Carb with fl zones</u> | | | | |
| | | | | shades of med to lt dull gr with p zone, this interval is very similar to the one above especially in colour, except the text mottling is here less strong and fl-rich zones are more abnt and slightly str. locky text approaches mass, especially below 39.0. | | | 50.2-55.1 | 450-500 |
| | | | | p fl present as zones infilling in finely mottled text areas and brc areas. below 39.0 also present as irregular vns. | | | 55.1-60.0 | 350-400 |
| | | | | this interval and the one above are relatively undfmd by late brittle or shear dfmn delicate text in fl-rich zones preserved. the Carb is f.g., eqgr and suc text. accessory min tr - 1% f.g. py and fl. | | | 60.0-78.0 | 250-320 |
| | | | | in the fl rich areas the Carb "mottles" which are surrounded by fl are very delicate - looking aggregates of fine Carb xtls with highly irregular ctcs with the fl. co-xtlized fl rich zones: 26.65 - 27.0 (med), 28.7 - 29.3 (wk-mod), 32.65 - 33.1 (wk), 33.75 - 36.35 (mod), 40.45 - 40.6 (wk), 42.15 - 42.8 (mod), 44.85 - 46.01 (wk, v.f.g., diss), other lesser zones. v. lt gy-gr 41.8 - 44.15. | | | 78.0-84.5 | 220-260 |
| | | | | lower ctc set at beginning of locl better fol and patchy lightening of colour. | | | | |
| | | | | CPS - (50.2 to 55.1 m - 450 - 500), (@60.0 m -350 - 400), (@78.0 m - 250 - 320), (@84.5 m - 220 - 260). | | | | |
| | | | | structure - fol 38° (28.6 m) mod, 33° (34.0) wk. | | | | |
| 48.85 | 59.95 | | | <u>f.g. mass-mottled to locky fol dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 59.95 | 72.40 | - | B | <p>med, ol-gr to lt gy to lt y-gr. text is finely mottled colour to wkly bnded, these latter areas tend to be y-gr fl tends to be concentrated as heavy fine diss and shreads with lesser semi-mass early vn filling.</p> <p>rock composed of f.g. eqgr, suc Carb. accessory mins rare, to f.g. py and f.g. to m.g. p fl frags.</p> <p>the y-gr rocks also contain Carb phenos look like broken xtals, ± 10x the grain size of the mtx, 10 - 15%.</p> <p>y-gr coloured zones 49.6 - 50.3, 52.25 - 53.05.</p> <p>fl - rich zones: 48.85 - 49.35 (mod, fol), 49.7 - 50.15 (wk), 50.45 - 50.55 (st), 53.05 - 53.75 (mod to str mass vn infill in lower half), 54.15 - 54.25 (wk), 54.45 - 55.1 (mod), 55.65 - 55.9 (wk - mod), 56.0 - 57.35 (wk), 57.85 - 58.65 (wk, str @ base).</p> <p>min cut by occasional v.f.g. ol-gr 1 - 3 cm Carb dykes, undefined.</p> <p>lower ctc abrupt gradational, set at end of dkr coloured intervals.</p> <p>structure - fol. 54° (48.9 m), 37° (54.5 m), 38° (55.65 m).</p> <p><u>wkly to mod fol f.g. dol-Carb with p fl-rich zones</u></p> <p>lt y-gr to lt gr-gy. interval is composed of f.g. xtln Carb, not the suc Carb seen above. minor to br f.g. py and minor f.g. fl as clsts and fine impregnation and fine vug filling.</p> <p>this interval is much better fol than above most often defined by colour bndg. unfoliated areas are mass or vaguely mottled.</p> <p>p fl rich zones present, composed of fine, elongate ____, broken clsts and core diss - zones of wk __ - __ flow.</p> <p>below 69.5 lt gy colours predominate and early brittle fact common.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 72.40 | 133.00 | - | BD | <p>p fl-rich zones present, composed of fine, elongate shreads, broken clsts and fine diss zones of wk delicate brittle flow.</p> <p>below 69.5 - lt grey clours predominate and early brittle frac common.</p> <p>fl-rich zones 62.45 - 62.85 (wk), 63.55 - 63.85 (wk) 64.1 - 64.5 (mod), 66.4 - 64.95 (wk), 67.25 - 67.55 (wk), 67.7 - 67.9 (str, broken fracs, coarse), 68.35 - 69.55 (mod). other lesser zones.</p> <p>64.9 - 66.0 m - med ol-gr coloured. contacts gradational.</p> <p>zones of healed brittle (random) fragc: 69.5 - 69.75, 70.4 - 70.65, 71.2 - 71.9. the fractures lined with fl or y carbonate?</p> <p>lower ctc set @ end of y-gr colour and appearance of dirty r patches, abruptly gradational.</p> <p>rare late v.f.g. ol carbonate dykes to 5cm. fewer but thicker than above.</p> <p>CPS - (84.5 - 102 m - 250 - 300), (@113 m - 230 - 260), (@128 m - 220 - 250), (@142.3 m - 180 - 210) EOH.</p> <p><u>cr to bg f.g. dol-Carb with dull r-og patches and streaks.</u></p> <p>the "base" Carb is a cr to bg, f.g. xtlN Carb. txt is mass to vaguely finely mottled. this rock contains patches irregular thin bnds and streaks of dull med og-r material. this consists of clean glassy carbonate containing ± 10 - 15° fine aggregates of v.f.g. REE Carb xtls fine mottled text. the clear Carb in these red patches is in contrast to the white translucent carbonate of the host rock.</p> <p>trace min include py and p fl. fl much less abnt than above, less than 10%</p> | | | 84.5-102 | 250-300 |
| | | | | | | | 102-113 | 230-260 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----------|---------|
| | | | | | | | DEPTH (m) | CPS | |
| 133.00 | 142.34 | - | | <p>the r material ranges from 0% to 40% over 10 cm lengths. avgs 15% over entire interval.</p> <p>r (REflc) poor zones: 72.4 - 74.8, 75.3 - 76.8, 81.0 - 82.4, 94.3 - 96.6, 99.5 - 104.5. these zones are mass 109.0 - 111.1, 115.2 - 116.35, 120.5 - 121.0. zones of pale brittle fragg: 88.5 - 89.4 core c.g. rubble, 90.4 - 90.8, 92.1 - 92.25, 83.25 - 83.9.</p> <p>bndg/fol, where present, defined by r material streaks and thin zone.</p> <p>relatively r REE fl Carb-rich: 77.25 - 81.15, 82.4 - 82.85, 85.0 - 87.9, 96.6 - 99.45, 120.1 - 120.4, 123.15 - 123.35, 125.25 - 126.25, 126.9 - 128.55.</p> <p>psd-prtc 82.6 - 82.9, clsts of whole carbonate 0.5 - 1 cm in a r fl Carb mtx. 112.35 - 112.75, 121.65 - 122.15.</p> <p>no real zone of fl concentration</p> <p>2 late ol v.f.g. Carb dykes 96.5 - 96.2, others 102.45 (2 cm, 57° TCA), 107.2 (2 cm, 60°), 108.25 (1 cm 59°), 111.65 (1.5 cm 64°)</p> <p>lower ctc set @ end of r patches - gradational.</p> <p>structure - fol. 69° (74.5 m), 46° (78.6), 77° (84.3), 74° (86.9), 58° (92.0), 57° (105.8), 60° (108.9), 47° (120.15), 63° (129.3)</p> <p><u>f.g. to m.g. phl py Carb with Glim layers</u></p> <p>cr-w with dk gy patches the Carb is mass, composed of f.g. to m.g. translucent carbonate with 1% f.g. py and fine clumps of f.g. phl. also present are bnds up to 15 cm thick rich in fine xenoliths of Rhy? and f.g. volcanic rocks</p> <p>below 138.0 bnds rich in variously biotitized xenoliths appear, culminating locly in v.f.g. Glim.</p> | | | 113-128 | 220-250 | |
| | | | | | | | | 128-142.3 | 180-210 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | xenolith-rich sections 134.3 - 134.6, 134.95 - 135.3, 136.8 - 137.0, 138.0 - 138.2 (bio), 139.1 - 139.55 (Glim), 140.4 - 140.65 (bio), 140.7 - 141.4. EOH | | | | |

GEOLOGICAL DRILL LOG

Durante
OGG # 223

| | | | | |
|---|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| Property: Eldor Property | Easting (m): 536101.81 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 23, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312215.17 | Rig Type: Discovery I | Date Completed: Jul 26, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: Background noted as ~190 |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 351.75 m | cps |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: A. Durante, A. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 4.03 | - | | <u>Ovb</u> no core recovered | | | | |
| 4.03 | 13.60 | - | | <u>f.g. swirly to bnded dol-Carb</u> It gy to dk br. rock is composed of f.g. suc carbonate, which contain frags and fin diss patches of fl. complex multistage history of mineralization and deformation. interval texts are chaotic, mix of duclite and latter brittle texts. late mineralizing event rich in mag - irregular vns. latest event in brc - infill - undefined (5.9-6.45 m). br mag rich areas, 10.2-10.8 m, 12.2-12.3 m, 12.8-13.6 m. these areas contain concentrate of irregular vns and broken vn frags. mineralization poor: 4.6-5.15 m, 8.25-9.85 m (lt gy-br). lower ctc set at end of string mineralization and relatively complex texts. | bndg: 57°-5.9 m, 55° - 7.45 m, 44° - 9.8 m, 37° - 12.2 m | | 4-14 | 650-800 |
| 13.60 | 44.40 | - | | <u>f.g. mass to finely mottled dol-Carb</u> med gy to br-gy. interval consists of mass aggregate of suc, f.g. carbonate. trace f.g. py. fl present associated <1 mm fine frags wk diss with coarser broken vns and patches. overall not abnt. text is f.g. mass to irregular colour-mottled. locl areas of wk brittle frags, some lined with fl. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 44.40 | 63.88 | - | | relatively fl-rich: 14.8-15.7 m (wk diffuse bnds and diss) 17.7-18.0 m (wk, coarse swirls), 21.0-21.8 m (wk, swirly and line bnds), 24.3-24.4 m (mod dfmd bnd), 27.95-28.15 m (same), 30.15-30.35 m (dfmd chunks). | 40° - 21.65 m | | 14-21 | 450-600 |
| | | | | occasional mod thin ol carbonate dykes ± 1 cm. | | | 21-31 | 700-850 |
| | | | | 40.25 to 42.8 m - med-dk br. | 40° - 40.8 m | | 31-37 | 600-750 |
| | | | | lower ctc set at increase in fl abundance. | 40° - 42.6 m | | | |
| | | | | <u>fl dol-Carb (A-zone?)</u> | | | | |
| | | | | v.f.g.-f.g. y-gy (5Y 7/2) - lt ol-gy (5Y 5/2) - pale ol (10Y 6/2) - gr-gy (5GY 6/1) fairly mottled with obvious hydrothermal influence in the form of brod bnds of dol-Carb. wk-mod flow bndg, abnt fl vnlets + diss patches and colour variations within carb (compositional variations? caused from incoming hydrothermal activity?) locly psd-brc - mod abnt peachy-cr-w dol clsts averaging 3-4 mm almost always associated within fl, giving a brc/speckled look to Carb. trace pk min often diss within fl in trace amounts and sometimes vnlets filling (REflc?) - v.f.g. varies from pk-r br. | | | | |
| | | | | modal mineralogy: dol-Carb: 85-90%; fl: 5-7%; bio: 5%; REflc: trace; sul: trace. | | | | |
| | | | | rare late stage (?) more y-gy v.f.g. bnds. eg. 47.34 m - 47.41 m, ~45° TCA at this pt. | late stage vn @45° TCA. | | | |
| | | | | interval begins fl abnt in many different forms; diss, swirly patches, clsts and vnlets, vnlet-rich areas, colour ranges from dk-lt p giving fl a streaky ± smudged look within dol-Carb. ranges from trace amounts up to ~15% locly. | | | 44.4-46.75 | 500 |
| | | | | few mafic-rich vnlets with complex orientations often v. wavy (mm-mm) + x-cut one another. minor clsts (ang, <4 mm) that look blk-b (bio + sph? ± sul). | | | | |
| | | | | 50.64 m to 51.65 m - is a Glim bnd - gradual ctc at top, (abnt vnlets grading into solid Glim) to sharp ctc at bottom. abnt c.g. sul within Glim bnd, up to 1 cm. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 63.88 | 72.84 | - | A/B-T | <p>~48.21 m to 48.87 m - psd-brc? bnd. v. broad bnd rimmed with < 1 mm mafics + sul, cutting ~28" TCA, ~20 cm wide. Inner rims are fairily ??? gr with ap hue. inside is v.f.g. y-gy Carb with abnt rnd to euh w-cr dol clsts, light p diss fl and diss mafics + sul throughout. abnt met gy patches seen under microscope (sph?) bnds like this also occur at 52.38-52.50 m.</p> | | | 46.75-57.75 | 350 |
| | | | | <p>52.92 m to 53.14 m - increase in REflc content, going off pk hue to dol Carb. still ~5% locky, but healed fl fracs associated with this occurrence.</p> <p>dol-Carb ranges from homo + mass to heavily mottled and patchy, generally graded ctc within dol-Carb textural heterogenity.</p> <p>interval ends because of decrease in fl content.</p> | | | 57.75-63.88 | 400 |
| | | | | <p><u>dol-carb</u> v.f.g.-f.g. y-gy (5Y 7/2) to pale ol (10Y 6/2) dol-Carb. this unit has significantly less fl, however can still be abnt locky. trace amounts overall but exists mainly as diss fl with minor patches and healed fracs.</p> <p>dol-Carb is significantly more blotchy. more lighter y patches and transparent gr-gy bnds. glow w under UV - ap? (~5% overall).</p> <p>dol-Carb is still mottled to various degrees (subtly - str).</p> <p>trace mafics + sul throughout, as vnlets (swirly and wavy) and irregular patches.</p> <p>modal mineralogy: dol-Carb: 90-95%; fl: 3%; mafics: trace; sul: trace; ap: 5%.</p> | | | 63.88-66.67 | 300 |
| | | | | <p>63.88 m to 69.23 m - Carb is significantly more patchy/blotchy and y - v. irregular texts (hydrothermal?) that are swirly, wavy a spotty. wk bndg exists. abnt lt cr-y dol exists within v.f.g. pale ol blotchy Carb. diss fl associated with dol clsts.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|------------------|--|---|--------------|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| 72.84 | 119.09 | - | | <p>common late stage carb bnds, v.f.g. gr-gy all ~34°-40° TCA.</p> <p>@68.53, 68.62 m - small patches of dk b, adiating min - amph asbetos? - soft!</p> <p>69.23 m to 70.82 m - Carb is significantly dkr. gradual transition into ol-gy (5Y 4/1) and gradual transition back into what was previously seen. 69.75 m-69.98 m, abnt fl (~15% locly), with patches of sul. healed fracs all oriented ~90° TCA, ~1 mm.</p> <p>few open vugs of core fracs infilled with dk r-br v.f.g. min (hem?).</p> <p>trace sul throughout.</p> <p>64.20 m to 64.40 m - v. broken core - fault?</p> <p>interval ends because of significant change in colour in dol-Carb.</p> <p><u>ap? dol-Carb</u></p> <p>v.f.g.-m.g. lt gy (N6) to pale gr-y (10Y 8/2) to pale ol (10Y 6/2) patchy and mottled Carb with a wkly defined foln locly. generally, colour variations are subtle.</p> <p>fl probably only abnt 5% overall but abnt in locld sections exists in patches, healed fracs, and diss.</p> <p>abnt mafic bnds that are vaguely defined (looked smeared throughout Carb), however mafics are what define wk foln. mafics are a dk gy-b colour, v.f.g. seems to be a slight colour variation (?) within Carb with finely diss bio + sul. this gy-b (patches should not be confused with rare b-gr-gy patches, which is amph (arf?) eg. 99.29-99.45 m. trace overall.</p> | <p>late stage bnds ~34°-40° TCA.</p> <p>healed fracs ~90° TCA.</p> <p>fault?</p> <p>entire interval is uniformly between 200-275 CPS.</p> | | | | |
| | | | | 66.67-69.60 | 400 | | | | |
| | | | | 69.60-70.70 | 550 | | | | |
| | | | | 70.70-72.84 | 325 | | | | |
| | | | | | | 72.84-119.09 | 200-275 | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|--|
| | | | | | | | DEPTH (m) | CPS | |
| | | | | <p>rare diss and fracs infillings r-pk min in locld areas. REflc? (prs? bsn?). fracs infill looks like it could be a wthing product (hem?).</p> <p>rare cr-w dol clsts within dol-Carb mtx giving spotted - patchy text. prominent in first 1.10 m - occurs locly throughout core.</p> <p>rare v.f.g. gr-gy homo late stage Carb bnds cutting throughout. eg 50-78 m.</p> <p>trace sul throughout.</p> <p>overall, pretty simplistic mineralogy to the naked eye, just texturally + colour of core is heterogeneously complex.</p> <p>modal mineralogy: dol-Carb: 80-85%; ap?: 10%; fl: 3-5%; bio: 5%; REflc: trace; amph: trace; sul: trace; qtz: trace.</p> <p>first 1.88 m psd-brc? abnt locld healed fracs + vnlets cutting through Carb in roughly same orientation. (67° TCA).</p> <p>Carb then becomes uniformly mottled with variations in y colour. compositional variation? sometimes harder and more transparent ap?</p> <p>78.15 m to 78.27 m - dk p pure fl clst with few sul throughout. ltr, hues throughout.</p> <p>XRF <0-5% TREO.</p> <p>wkly defined mafic bnds defining foln at ~30° TCA between 78.50 m-85.00 m.</p> <p>92.33 m to 95.81 m - what appears to be mafic vnlets actually have a v. saw-tooth/zig-zag geometry to them. these appear to be stylolites, formed from compressional dissolution. these appear throughout the hole, but are well defined here.</p> | <p>late stage bnd cutting @27° TCA.</p> <p>fracs 67° TCA.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 119.09 | 136.56 | - | | <p>few qtz vnlets throughout.</p> <p>110.70 m to 112.15 m - obvious intrusion stages of certain mins: stage 1: Carb with diss fl and mafics; stage 2: healed fl frags at ~60° TCA; stage 3: qtz vnlets x-cut everything.</p> <p>112.15 m to 119.09 m - Carb has significantly less fl but is significantly more mottled.</p> <p>~115.07 m to 118.72 m - more abnt qtz clsts and vnlets with b patches within. these b patches are f.g. amph and are always associated around qtz.</p> <p>interval ends because change in colour of dol-Carb and fl no longer exists.</p> <p><u>ap dol-Carb</u> v.f.g. pale ol (10Y 6/2) to lt ol-gy (5Y 5/2) mottled and streaky dol-Carb. overall looks fairly homo in text. psd-brc throughout - just variations in strength but present throughout whole interval.</p> <p>abnt dk gy patches and vnlets throughout, under microscope just looks like v.f.g. bio + sul diss throughout Carb. few c.g. sul patches throughout (eg. 127.10 m). mafic patches and vnlets define brc by rimming dol-Carb + ltr y-cr dol clsts (mm-scale).</p> <p>few patches and diss b-gr amph throughout core, but trace overall.</p> <p>under UV bnds (up to 10 cm wide) that glow w throughout core. ap?-rich bnds - under regular lt, just looks like mottled Carb. often associated with wk foln defined by mafics.</p> <p>trace fl patches and diss throughout.</p> <p>common late stage v.f.g. gr-gy Carb bnds throughout. range from 1 cm (eg. 136.18 m) to 24 cm (eg. 131.28 m-131.52 m) - sharp ctc generally. always cutting at ~35° TCA.</p> | | | 119.09-123.36 | 325 |
| | | | | | late stage Carb vns cutting @~35% TCA. | | 123.45-136.56 | 425 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 136.56 | 166.26 | - | | <p>few Qtz-rich areas often associated with Amph patches and diss clsts. eg 128.15 m-128.58 m.</p> <p>modal mineralogy: dol-Carb: 85%; ap: 10%; Amph: trace; Qtz: 5%; bio: trace; fl: trace.</p> <p>v. v. rare diss r-br mm diss around v. rare fl patches REflc?</p> <p>@123.36 m - ~9 cm f.g. dk gy-gr bnd with 500 CPS. (XRF: ~1.5% TREO 2:1 Ce:La).</p> <p>@135.21 m - 4 mm opaque w bnd noticeably more competent than surrounding Carb (which has lim on open fracs) - dol.</p> <p>@135.53 m-135.73 m - wavy b-p bnd mottled within Carb - mafics + fl + sul ± Amph? all within dol-Carb - v. odd appearance.</p> <p>interval ends because of increase in fl.</p> <p><u>ap fl dol-Carb (B-zone?)</u></p> <p>v.f.g.-f.g. y-gy (5Y 7/2) to pale gr-y (10Y 8/2) to med gy (N5) dol-Carb with hetero texts → exist separately + together. ranges from mottled + psd-brc - spotted - streaky - patchy. overall complex history of mineralization and deformation.</p> <p>overall, this is more y than previous.</p> <p>common fl (diss, speckled and swirled, vnlets, healed fracs, concentrated in bnds, etc).</p> <p>many mafic-rich gy patches (v.f.g. bio + sul), + bnds. wkly define. foln throughout.</p> | | | 123.36-123.45 | 500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|----------------------|---------|---|---|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>locld + patches of ap-rich clsts (1-2 mm avg). slightly ltr coloured, could possibly be mistaken for dol clsts but they usually exist in ltr, more mottled homo sections and only identifiable with UV.</p> <p>c.g. sul throughout - more abnt than previously seen, but still trace amounts.</p> <p>modal mineralogy: dol-Carb: 80%; fl: 5%; ap: 10%; qtz: 3-5%; bio: trace; sul: trace; REflc: trace.</p> <p>first 1.05 m is v. speckled/spotted dol-Carb with abnt (~30-40%) ap within gdmass. abnt diss, qtz clsts (transparent gy with b hue) an diss fl.</p> <p>minor diss og-br min throughout - REflc.</p> <p>healed fl fracx-cut. minor late stage v.f.g. gr-gy Carb vn throughout.</p> <p>diss mafics.</p> <p>variations of that text occur throughout, just not as strongly defined.</p> <p>wkly defined foln ~42°-24° TCA (becomes more shallow (generally) down interval.</p> <p>148.93 m to 149.03 m - strongly brc bnd. abnt c.g. sul before and after this bnd (± 50 cm) up to 1 cm.</p> <p>few late stage v.f.g., homo, gr-gy Carb bnds, sharp etc. at 154.36 m, it cuts at 39° TCA (approx - identical to foln).</p> | | | <p>136.56-141.50</p> <p>141.50-147.50</p> <p>147.50-151.00</p> <p>151-end</p> | <p>250</p> <p>350</p> <p>450</p> <p>250-300</p> |
| | | | | | @141.50 m - fol @42° | | | |
| | | | | | @143.00 m - fol @24° | | | |
| | | | | | late stage bnd @39° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 166.26 | 276.73 | - | BD | <p>164.50 m to end - textbook "B-zone".</p> <p>interval ends because of appearance of abnt REflc.</p> <p><u>REflc dol-Carb</u></p> <p>v.f.g.-c.g. y-gy (5Y 7/2) to lt gy (N7) mod-strongly fol dol-Carb, with abnt diss r-pk-og diss REflc, diss concentrated in bnds of defining str foln.</p> <p>fairly common fl vnlets within REflc bnds.</p> <p>abnt dkr gy-b bnds and vnlets thoroughout. appear to be mainly qtz ± bio ± sul.</p> <p>texts throughout interval are v. hetero and v. complex. commonly brc though. strength of brc is v. broad.</p> <p>abnt rnd-euh w-cr, xtln dol clsts. contrast between w dol and r REflc strongly defines foln and brc texts throughout interval.</p> <p>few v.f.g. gr-y-gy late stage Carb bnds/vns. again, contrast against Carb/REflc makes them a noticeable and important aspect of this unit. sharp ctc, often 1-5 cm in diameter.</p> <p>modal mineralogy: dol-Carb: 70-75%; REflc: 20%; qtz: trace; fl: 3%; bio: 4%; sul: trace; ap: 4-5%.</p> <p>@ 169.05 m - foln cuts at 43° TCA, late stage Carb in at 169.16 m cuts at 38° TCA, but in opposite direction. (@ 260.57 to 260.85 m - abnt late-stage Carb vns "swirling" through core - gr-gy, v.f.g. diss REflc throughout. few bio needles within.)</p> <p>few v. clean w/lt gy bnds and clsts and transparent - dol bnds and larger clsts than previously mentioned.</p> | <p>@165.00 m - fol @39°</p> <p>@170.5 m - foln ~33° TCA.</p> | | 166.26-182.53 | 275 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|--|----------------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>in more y versions of the dol-Carb, these are concentrated bnds of ap, up to ~10% locally, eg @171.50 m y ap bnd with later Reflc-rich Carb + mafic-rich Carb vns x-cut (3-5 mm).</p> <p>@176.43 m - ~1 cm pocket im of pure sul (py). rare throughout interval.</p> <p>177.45 to 183.56 m - str brc text with dol clsts up to 7 cm (ang). few qtz clsts within (~1 cm) - this reoccurs throughout.</p> <p>187.10 m to 187.30 m - strongly defined hydrothermal, text, eutectic? (I can't remember what it is called) → REflc and fl is complexly and finely interlinked within dol-Carb.</p> <p>few b small bnds and patches (eg. 192.00 m), → compositional variation within Carb ± few mafics and qtz (diss).</p> <p>some of the isolated bnds of REflc are v. wavy and literally look like they "washed" or "flowed" through Carb. a good example is at 203.10 m. constant throughout.</p> <p>@210.80 m to 210.89 m - healed fl fracs @~90° TCA and x-cut foln. also, at 210.56-210.75 m, bright r-og REflc bnd that x-cuts foln as well (perhaps 2-stages of mineralization?) - reoccurs throughout ; but 2nd stage: always a bright r colour and usually thin bnds (<20 cm).</p> <p>@~248.00 m - qtz clsts and vnlets become noticeably more abnt, but still trace amounts overall.</p> | <p>@176.25 m - fol @37° TCA.</p> <p>@190.5 m - fol ~39° TCA.</p> <p>@191.80 m - fol @~25° TCA.</p> <p>@195.73 m - fol @~32° TCA.</p> <p>@207.35 m - fol @~33° TCA.</p> <p>@213.60 m - fol @~36° TCA.</p> <p>@221.12 m - fol @~32° TCA.</p> <p>@226.50 m - fol ~parallel with CA.</p> | <p>182.53-196.20</p> <p>196.20-240.35</p> <p>240.35-246.24</p> | <p>215</p> <p>225</p> <p>175</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 276.73 | 288.44 | - | | 260.57 m to 260.85 m - abnt late stage Carb vns "swimming" through core - gr-gy, v.f.g., diss REflc throughout. few bio needles within. | @232.17 m - fol @~42° TCA. | | | |
| | | | | 264.40 m to 264.58 m - v.f.g. gr dol-Carb bnd with REflc microbnds within few dol clsts within - almost looks like 2 separate bnds with identical orientation. (~36° TCA). gr Carb bnd ~36° TCA. | @239.64 m - fol @31° TCA | | | |
| | | | | 270.82 m to 271.5 m - clean with dol bnd with few ltr dol clsts v. homo. these bnds x-cut dol-Carb with sharp ctc. (another example is at 275.95 m-276.01 m). | @254.37 mm - folo @~36° TCA. | | | |
| | | | | interval ends because of significant decrease in REflc and increase in mafics. | @275.25 m fol @~30° TCA. | | 246.24-276.73 | 225 |
| | | | | <u>bio ap dol-Carb</u> | | | | |
| | | | | v.f.g.-c.g. medium lt gy (N6) to y-gy (5Y 7/2) dol-Carb, subtly mottled, with a strongly defined foln + local brc texts. | | | 276.73-288.44 | 225 |
| | | | | foln defined mainly by v.f.g.-f.g. mafics bnd and vns (bio) - Glim? with itsl cc associated with mafics. | | | | |
| | | | | minor - rare diss REflc throughout. | | | | |
| | | | | c.g. suls throughout, as well as v.f.g.-f.g. diss. | | | | |
| | | | | concentrated ap bnds within dol-Carb - slight y hue to them and v. hard to differentiate without UV light. | | | | |
| | | | | v.c.g. cr-w dol clsts throughout helping define brc text. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 288.44 | 351.75 | - | | <p>few late stage Carb bnd/vns (v.f.g., pale ol-gr gr, 1-2 cm).</p> <p>modal mineralogy: dol-Carb: 80-85%; bio: 5-7%; REflc: trace; sul: trace; qtz: 5%; ap: 5%; cc: trace.</p> <p>281.24 m to 285.13 m - psd-brc with a couple stages. stage one is mod-str fol dol-Carb. stage 2 is bio vnlets + healed fracs x-cut the fol.</p> <p>283.49 m to 285.56 m - y-br min cutting dol clsts - wthning product? compositional variation?</p> <p>interval ends because of significant increase in REflc.</p> <p><u>ap REflc dol-Carb</u></p> <p>v.f.g. pale gr y (10Y 8/2) to v. lt gy (N8) to lt gy (N7) subtly mottled dol-Carb. v. hetero texts from spotted to brc to homo to fracd.</p> <p>abnt REflc diss throughout and defining str fol.</p> <p>y parts of dol-Carb are often concentrated in broad bnds - these are ap-rich bnds.</p> <p>overall, this last interval is v. similar to previous REflc interval, this just has less abnt REflc.</p> <p>modal mineralogy: dol-Carb: 80%; REflc: 10-15%; qtz: trace; fl: trace; bio: 3%; suls: trace; ap: 5%; cc: trace.</p> <p>still few clsts and vnlets throughout, as well as mafic-rich areas are b-gy and seem to be mostly a compositional variation (?) of Carb with spotty REflc throughout giving a speckled look.</p> | <p>@280.50 m fol ~41° TCA.</p> <p>@284.23 m - fol ~42° TCA.</p> | <p>REflc through out interval</p> | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|----------------------------------|---------|-------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | few late stage v.f.g. y-gy Carb bnds 1-2 cm, sharp ctc - look v. dominant due to colour contrast with REflc. | | | | |
| | | | | ltr dol patches and clsts throughout (lt cr-ww). | @289.12 m - fol @~25° TCA. | | | |
| | | | | few microvugs throughout - often open but sometimes filled with REflc, mafics ± suls. | @300.50 m - fol @~51° TCA. | | 288.44- 293.80 | 250 |
| | | | | 303.67 m to 308.93 m - v. homo section of v. lt gy f.g. xtl dol-Carb with few REflc specs throughout. no structure dfmd at all. | @303.39 m - fol @~43° TCA. | | 293.80- 312 | 200 |
| | | | | 314.00 m to 314.26 m - bio filled stylolite? perfect sawtooth pattern, ~1 mm wide. | | | | |
| | | | | 316.10 m to 316.34 - late stage REflc vnlets/fracs overlapping bio vnlets and qtz clsts. | @319.65 m - fol at 46° TCA. | | 312- 318.20 | 225 |
| | | | | @333.57 m to 333.71 m - fl-rich bnd with eutectic (?) text. few smaller bnds (4 cm) to follow. | @332.73 m - foln @53° TCA. | | | |
| | | | | starting at 335.56 m to 344.90 ltr pk portions of REflc (gy-og pk, 10R 8/2) that have cc itsl throughout bnd. | @335.17 m - fol ~44° TCA. | | 318- EOH | 185 |
| | | | | later stage REflc rich vnlets x-cut everything approximately <20° TCA at 337.00 m and 338.50 m and 350.90 m. | @339.60 m - fol ~27° TCA. | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@~343.68 m, bright r-og REflc "circulating" through core in a oval/swirly pattern. definitely hydrothermal (aside: b patches in same area are just bio and sul patches).</p> <p>345.82 m to 346.20 m - talc vns?, causing planes of wkness along core it to break.</p> <p>EOH</p> | <p>@344.20 m - fol ~39° TCA.</p> <p>@350.94 m - fol ~43° TCA.</p> | | | |

OGQ #223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536252.71 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 26, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312050.35 | Rig Type: Discovery I | Date Completed: Jul 28, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.71 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 221.59 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 4.20 | OVB | | <u>Ovb</u> cr-w dol-Carb bldr | | | | |
| 4.20 | 50.28 | dol-Carb | A | <u>fl - dol-Carb</u> unit >1000 CPS, commonly up to 1500 CPS It ol-gy to dk-gr-gy purple patches. hetero text, patchy - brc, abnt random x-cutting late stage Carb dykes and vnlets f.g-v.g. modal mineralogy: dol (+ other cbnates) 94%; fl: 5%; mnz: trace; py/sul: 1%. top m is lt gy f.g.-m.g. dol-Carb - bldr? homo, rextld dol, uniform dusky y patches. rubby between this and A zone Cab below. in A zone unit, text and min consistent to end. heavy hydro-brcn blanketed by abdt late stage dykes and rextln. fl is perv. itsl, dk p, f.g. blebs. patches locky up to few cm. ± mnz? late stage dykes are y-gy - lt ol-gy, layered or combined with other dykes, up to 15 cm wide. ctcs with Carb are sharp but not smooth fl not common. sections of Carb also bnded locky - remobilization. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 50.28 | 99.67 | dol-Carb | A | <p>brc text more dominant from 8.23 to 12 m, rextld - clsts not well defined. sul itsl/ in mtx and vns locky.</p> <p>18.60 m to 26.52 m - Carb/gdmass is ltr gy, locky reduced fl more homo. frags have lim/hem coating locky down to 31 m.</p> <p>small qtz vnlets (<3 mm) x-cut locky below 27 m, may have euh py. 2 cm vn at 40.30 m. @35.45 m, qtz vn but one half is fl brc vn - fl mtx with ang dol-Carb clsts.</p> <p>26.52 m to end - reduced fl and coarser grained sections locky (up to 2 mm dol xtls) common euh py xtls here (up to 5%) reduced x-cut dykes.</p> <p>@35.66 m and 37 m - y-gy dykes running along CA up to 50 cm, fl along edges.</p> <p>44.65 m to 45.25 m - qtz vn x-cut along CA, up to 2 cm wide, c.g., tan c.g. dol and fl along edges, up to 30%, minor gal pockets. small qtz vn with similar mins at 47.10 m.</p> <p>47.50 m to end - v. common fl pockets, +REflc + mnz?, up to few cm. lt gy gdmass again, increased late stage Carb dykes, includes m.g. dyke similar to Carb seen higher up with py. v. late fl vnlets also x-cut here.</p> <p>gradational lower ctc, RA decreases, colour and text change.</p> <p><u>dol-Carb</u> unit 500-900 CPS.</p> <p>med gy to lt ol-gy</p> <p>strongly brc top, lower is psd-brc with rextld dol(?), becomes more homo near bottom. v. minor itsl fl, patches locky. f.g.-v.f.g.</p> <p>modal mineralogy: dol (other cbnates) 96%; fl: 2%; py+sul: 2%; mnz: trace; bsn/prs: trace.</p> | | | 17.15 | 2000 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>ctc with above unit based on decrease in fl, strong brc here, reduced late stage Carb dykes.</p> <p>clsts and mtz similar material, but easy to distinguish. clsts all ang, up to few cm, more homo than mtz. rare qtz + fl pockets and vns in mtz. brc locly interrupted by un-brc patches (larger clsts?) and late stage Carb dykes. some dykes broken by brc - multiple brc and dyke phases.</p> <p>58.25 to 59.60 m and 60.40 m to 60.90 m - homo non-brc bnds, med gy, f.g. eqgr, trace fl grains and vnlets and minor qtz vnlets.</p> <p>below 60.90 m - Carb is patchy - mottled (psd-brc text common) with only minor intermittent brc sections. brc "ends" ~64.60 m.</p> <p>@61.60 m and 62 m - mass fl patches/vns, minor diss py within.</p> <p>@57.40 m and 57.60 m - <6 cm bnds of fl psd-brc - cr Carb clsts with fl + REflc mtz. these have v. sharp ctc with the surrounding brc (which seems to be later).</p> <p>itsl fl ± REflc ± mnz in psd-brc. locly wkly fol. also gy-gr bnds and mtz - sul, chl?</p> <p>64.80 m to 82.50 m - Carb is v. hetero but psd-brc is dominant text locly wkly bnded/fol. v.f.g. uniform patches overprinting psd-brc locly - rextld Carb? gr-gy cr dol clsts with itsl fl + REflc + mnz and blebs typical of psd-brc. (p-r)</p> <p>66.35 m to 66.65 m - x-cut dk gr-gy Carb bnd, prtc/pblc - dol grains are m.g-c.g.. fl patches common; qtz vns common + tan dol and fl. sharp ctc with surrounding Carb increased sul in mtz?</p> <p>71.75 m to 74.15 m - the Carb breaking the psd-brc zones is a brc. same v.f.g. uniform gr-gy gdmass new with various Carb clsts (typically y-gy - cr sub-ang, widely spaced). also patchy text locly, some fracs and vugs infilled with pl. ctc with psd-brc one sharp.</p> <p>@73.25 m - 20 cm psd-brc bnd with fl + mnz? concentrated at top 6 cm. br-og min. f.g. clusters up to 15%, 5-6% REE on XRF.</p> | | | 54-55.40 | 900-1000 |
| | | | | | | | 62.00 | 1050 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 74.15 m to 77.50 m - Carb much ltr (pale gr-y - pale ol) str mottled text, hetero, random fl blebs/vns, reduced RA - ibd "B zone"? | | | | 450-550 |
| | | | | 83.40 m to 84.05 m - many fracs and pockets filled with bio + chl + diss py, including patches up to 5 cm. minor fl. cream dol grains diss locky (rnd) | | | 83.35 | 1000 |
| | | | | 84.05 to end - Carb is gy - pale ol, dominantly gdmass (rare clsts), and wkly-mod bnded/fol with fl + REflc + mnz? streaks fairly homo. brc dykes? x-cut locky - bnds up to 15 cm with w rnd dol grains in mtx/gdmass similar to surrounding Carb. | | | | |
| | | | | 87.55 m to 88.15 m - abnt scattered w dol vns and pockets, minor fl blebs within, between these Carb is strongly mottled, and well mineralized - diss og and br f.g. mins up to 1% (REflc/mnz/xnt?) | | | | |
| | | | | 93.25 m to 95.35 m - Carb is dkr gy-gr mod - abnt fracs & patches with bio-chl-py. py euh, m.g.-c.g., diss up to 25% locky between 93.25 m to 93.65 m and 94 to 94.50 m fl patches up to few cm 93.57 m to 93.80 m. ibd Glim 94.50 m to 95.20 m, dk gy-blk, mod fol, diss w dol blebs and random vnlet, sharp ctcs. | | | | |
| | | | | 95.75 to 98.20 m - fl + REflc + mnz? streaks/bnds/patches increase, couple bands/patches at 96.62 m up to 4 cm. og-br min diss within fl. locky up to 25%. | | | | |
| | | | | bottom 15 cm of unit is strongly fol bnd of dol-qtz-fl-py-bio. | | | | |
| | | | | lower ctc picked at decrease in RA, text and colour and mineralogy change. | | | | |
| 99.67 | 132.44 | dol-Carb | B | <u>dol-Carb</u> unit 250-350 CPS. lt gy - pale gr-y - pale ol. wkly - mod bnded/fol, psd-brc locky f.g. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 132.44 | 134.45 | cc-Carb | | <p>modal mineralogy: dol (and other cbaes?) 97%; fl 1%; ap 1%; py + sul: 1%; REflc: trace; mnz: trace.</p> <p>unit fairly homo - consistent colours and bndg.</p> <p>sections of psd-brc locky have w/cr dol clsts, fracd and rnd, mtx is continuous with surrounding Carb, these sections typically <1 m, significant 112 to 113.50 m.</p> <p>y-gy patches and bnds typically of B zone are common but scattered. fracs locky abnt - filled with suls, talc (gr).</p> <p>minor fl blebs and patches are spaced typically 50-100 cm, mostly <few % but up to 10% locky + REflc + mnz? significant 101.50 m to 102.10 m.</p> <p>@114.15 m - dk gr-gy - gy-ol bnd, v.f.g. mass, uniform - late stage Carb dyke? 10 cm wide.</p> <p>120 to 132.44 m - bsn/prs mineralization diss locky. this is most hetero part of the interval, bndg is sporadic/non-existent, many zones of brc/psd-brc with w dol grains and itsl bsn/prs. first couple m, bsn/prs is trace, lower down clusters at larger and more perv (up to 5% locky), may be associated with fl w/cr dol patches up to 10 cm from 124.50 m to 126.20 m.</p> <p>130 m to end - brc and fracturing is str, v. hetero.</p> <p>130.53 m to 131.85 m - bio abnt, sharp ctc, itsl and filling fracs, mostly ~10% but locky up to 25%. no REflc or fl just w-cr dol-Carb clsts, v. broken up. qtz grains/silicification locky? - harder and lt gy colour.</p> <p>131.85 m to end, back to dol-Carb with REflc in mtx, minor fl patches and many v. pale og patches approaching ctc with diss bio and ap blebs (up to 15%).</p> <p><u>bio (GP) ap cc-Carb:</u> unit 250-300 CPS.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 134.45 | 148.26 | Glim | | <p>gy to gy-pk</p> <p>hetero attending gy mag-bio-ap patches and pk clean cc-Carb. f.g-m.g.</p> <p>modal mineralogy: cc: 85%; ap: 8%; bio (gp): 5%; py: 2%; mag: trace;</p> <p>unit starts with intro of cc, gradational etc. top 60 cm is dominantly gy rock with abnt accesory mins - diss bio and in frags, ibd fracd dol-Carb locky up to 10 cm.</p> <p>133.05 m to end - pk cc-Carb patches up to 15 cm with minor diss bio and ap blebs up to 5%.</p> <p>sharp lower etc to WR.</p> <p><u>Glim/WR</u></p> <p>gr-blk to ol-blk, dk gr-gy sections</p> <p>hetero, fracd and brc with many x-cut dykes to fairly mass/uninterrupted Glim. ibd/x-cut dol and cc-Carb sections common up to 40 cm. f.g-m.g.</p> <p>modal mineralogy: bio: 35%; cc: 20%; dol: 5%; qtz: 10%; alb: 20%; arf: 10%; py: trace.</p> <p>top to 136.12 m - rock strongly biotized - si (albite?) clsts surrounded with bio and later b-gr ambl partially biotized. bio locky up to 80% abnt dol/Carb dyklets scattered.</p> <p>136.12 m to 136.9 7 m - couple dol-Carb bnds separated by 15 cm Glim bnd. Carb is lt gy - y, mass with mod frags (bio filled) and qtz vnlet. looks like Glim is intruding Carb - small bio vnlets cutting into Carb and minor Carb clsts in Glim near etc (sharp).</p> <p>136.97 m to 140.95 m - brc + biotized alb clsts with x-cut dol/Carb dyklets and dol clusters.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 148.26 | 157.51 | cc-Carb | | <p>138.25 m to 139.45 m - b-gr ambl (arf?) dominant (25-60%) with itsl f.g. qtz + bio and diss cr rd dol blebs (loclly up to 25%) reduced Carb dyklets. more homo, mass, not brc.</p> <p>140.50 m to 140.95 m - mass Glim, only minor dol/Carb blebs and dyklets, f.g. diss arf and qtz up to 30%.</p> <p>140.95 m to 144.35 m - common ibd/x-cut cc-Carb bnds, loclly Glim clsts within Carb. Carb is cr to gy-gr, f.g-m.g., little-no accessory mins, suc text. Carb bnds up to 50 cm long.</p> <p>142.15 m to 142.35 m - bnds are dol-Carb, bio frags and patches common.</p> <p>between Carb bnds mostly alb clsts, some arf + qtz frags, reduced bio compared to elsewhere.</p> <p>144.35 m to end - strly biotized alb clsts/frags dominate, minor cc-Carb patches and dyklets, also itsl cc up to 15%, bio ~35%.</p> <p>147.40 m to end - cc-Carb bnds/dyklets increase.</p> <p><u>arf ap cc-Carb</u></p> <p>lt-med b-gy, lt gy-cr-pale pink.</p> <p>suc text, loclly wk-mod bndg fairly eqgr. f.g-m.g.</p> <p>modal mineralogy: cc: 83%; arf: 5%; bio: 3%; mag: 1%; ap: 8%; py: trace.</p> <p>upper and lower ctc with Glim/WR have y-gy uniform f.g. dol-Carb bnd, upper is 15 cm, lower 5 cm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 157.51 | 199.62 | WR | | <p>sharp ctc with Glim and cc-Carb - late stage dykes along wk plane of ctc? placed outside limits of cc-Carb.</p> <p>top m of unit is most homo, dominantly med b-gy (due to f.g. arf diss) with pale pk bnds locky. f.g. mag diss and small bnds locky.</p> <p>149.40 m to 151.10 m - alternating b-gy and pale pk bnds. arf much decreased in pk cc bnds, no mag. ap diss in both, commonly ~5%, increases in pk bnds locky up to 15%.</p> <p>151.10 m to end - text is more or less consistent (except where mentioned...) pale pk - lt gy gdmass dominates with mod b-gy clusters and bnds (arf, up to 20%) bio and mag locky diss (fairly evenly) up to 5% (bio up to 15% between 156 to 157 m with euh py xtls locky) ap blebs evenly diss 5-10%.</p> <p>@151.25 m - almost skeletal text.</p> <p>@152.30 m - 10 cm bnd of arf-bio-qtz?, only minor itsl cc, hard and dk.</p> <p>152.40 m to 153.24 m - Carb is pale pk with lt gr-gy bnds and minor lt b-gy bnds. cc and ap dominate here, no bio + mag, arf restricted to thin b bnds. ap up to 70%? in lt gr-gy bnds (up to 3 cm)</p> <p><u>biotized WR</u></p> <p>dk gy-blk, br.</p> <p>alb rock brc/broken up into clsts/frags then biotized to varying degrees. locky brc/fragmental text not seen - dominantly bio, may be mass or fol. abnt cc-Carb dyklets and pockets x-cut, minor dol-Carb locky. f.g.</p> <p>modal mineralogy: bio: 39%; alb: 20%; cc: 15%; py: 1%; arf: 15%; qtz: 10%.</p> <p>top 2.5 m is patchy, brc/fragmental text locky. abnd cc pockets and bnds. pale ol patches up to 1 cm at 159.15 m - relic ol?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>159.90 m to 160.85 m - ibd med gy cc-Carb, sharp ctcs, homo, mass, f.g.. f.g. mag diss evenly, 5%.</p> <p>160.85 m to 169.18 m - biotization nearly complete, brc masked, reduced alb. fairly homo. itsl cc and cc pockets consistent, up to 15% cc-Carb bnds/dykes up to 30 cm, b-gy - pale pk - lt gr-gy. py diss ~1%, euh, m.g.</p> <p>166.43 m to 167.15 m - tan dol-Carb dyles x-cut aph, uniform sharp etc. rock surrounding is bio-qtz-ambl (arf?) rock, up to 3 cm wide, layered with REflc? locly (trace).</p> <p>166.95 m to 167.15 m - cores of b qtz-ambl frags is dusky y-gr - di?. more qtz-ambl rock (with di? cores locly) 169.25 m to 169.65 m.</p> <p>169.90 m to 172.30 m - Carb bnds/dykes dominate, lt gy - cr. mostly cc-Carb bnds locly med b-gy clusters locly - arf + py + bio. f.g. ap diss.</p> <p>172.30 m to 189.75 m - dominantly biotized alb rock with cc itsl and pockets. variable amount of bio (up to 50%). scattered carb dykes and bnds. py up to 5% locly (173.90 m, 180.60-181.30 m)</p> <p>178.88 m to 179.20 m - b ambl-qtz rock, itsl cc. dusky y-gr frags at end. more dusky y-gr frags (di?) 180.62 m-180.74 m, 182.30 m-182.75 m. these have bio rims, not qtz-ambl.</p> <p>184.20 m to 185 m - w-cr cc-Carb dykes winding through core, lt gy borders up to 4 cm.</p> <p>below 186.70 m - Carb dykes increase.</p> <p>189.75 to 190.65 m - y-gy dol-Carb dykes x-cut, aph, uniform sharb ctcs up to 15 cm. minor ap.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 199.62 | 205.50 | cc-Carb | | <p>189.75 m to 191.17 m - b-gr and pale pk cc-Carb. f.g-m.g. suc text. diss mag locky. another dol-Carb bnd 191.92 m to 192.95 m, this more lt gy to lt gr-gy, f.g-m.g. mass, suc text, no ap, minor arf diss locky.</p> <p>192.95 m to end - rock is mostly dk mod b - qtz ambl rock, f.g., clusters with itsl cc. bio f.g. itsl locky and slo biotization str at 192.95-193.25 m and 193.85-195.40 m (bio up to 40%).</p> <p><u>cc-Carb</u> cr-b-gy</p> <p>wkly-mod bnded. f.g-m.g.</p> <p>modal mineralogy: cc: 92%; ap: 3%; mag 1%; arf: 2%; bio: 2%.</p> <p>abrupt upper ctc from WR to cc but overall gradational as frags of biotized rock continue in carb for ~50 cm.</p> <p>Carb is fairly consistently bnded, cr-lt-gy vs. b-gy layers. bnds are thin, typically < few mm. b-gy bnds hold f.g. ambl (arf) mag and bio are diss each up to a few % locky.</p> <p>ap diss locky, f.g. <5%.</p> | | | | |
| 205.50 | 221.59 | WR | | <p>203.45 m to 204.25 m - abnt bio/Glim frags cut by cc-Carb. bio up to 50%.</p> <p><u>WR</u> dk br and mod b with w-cr bnds and patches.</p> <p>brc/large broken up clsts x-cut by Carb dykes, further down reduced biotization. ambl dominates. f.g.</p> <p>modal mineralogy: bio: 15%; alb: 45%; ambl (arf?): 20%; qtz: 20%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>top 4 m is alb clsts with bio rims intruded by cc-Carb dykes/vnlets. ctc with Carb above is gradtional. nearest top, frags are furthest apart, bio rims up to 1 cm thick, includes all bio clsts up to 1 cm. moving down, dykes/vnlets decrease in size and get more separated.</p> <p>by 209.40 m - cc-Carb dykes v. rare, alb not broken up much and bio <2 mm thick where present along fracs and f.g. diss ~5%.</p> <p>210.35 m to 210.65 m - m.g.-c.g. dol-Carb bnd, mass. eqgr phan! ap 30%, hbl 5%, f.g. bio along fracs.</p> <p>214.25 m to end - core is mod b - qtz-ambl rock. alb frags and patches loclly, these now rimmed with ambl (bio replaces ambl...)</p> <p>218.30 to 218.85 m - more biotized alb, mass, f.g. with x-cut alb vnlets? dusky y-gr di? frags at both ends.</p> <p>220.65 m to end - more bio rock, Glim/bio schist? med fol, alb? blebs diss.</p> <p>214.80 to 216.05 m - dusky y-gr di? clusters/frags scattered, completely surrounded by b qtz-ambl rock (rx rim/replacement).</p> <p style="text-align: center;">EOH</p> | | | | |

Handwritten signature and date: 06/23

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536253.10 | Drill Company: Bodnar Drilling Ltd. | Date Started: Jul 28, 2014 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312050.66 | Rig Type: Discovery I | Date Completed: Aug 01, 2014 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 9.14 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 411.18 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: A.W. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|--------------------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.89 | - | | <u>Ovb</u> 0.8 m of bldrs (Carb and coarse soil recovered). | | | | |
| 3.89 | 38.15 | - | | <u>f.g., completely texted, radioactive dol-Carb</u> med gy-gr. rock composed of f.g. carbonate, most of tan suc but with common, broken xtls. this carbonate often contains up to 10% y xtls, cause than the carbonate. trace py, ultra trace galena. texts mod. hetero, locly irregularly bnded (defined by p fl) to severly to psd-brc. completely dfmd. fl present as patches, thin irregular bnds; streaks. these contain fine carbonate "xenocrysts" diss in them. interval is 5-10% fl overall. the texts are quite hetero in detail but overall homo. above 30:0 rock is slightly superficially stained. occasional late subplanar v.f.g., bnded Carb dykes 1-4 cm wide thick ± 1 every 3 m. radioactivity is str and consistant throughout. easily the most RA core I've seen. fl concentrations not abnt. relatively fl enriched, 7.0-11.2 m, 14.0-15.25 m, 17.9-20.45 m, 21.4-22.0 m, 27.1-28.1 m. 32.25 to 32.35 m - v.c.g. fl qtz infilling. occasional late subplanar, fl-filled fracs. slight y cast: 10.6-19.7 m, 21.65-28.6 m. surface mod filled seam 8.75-8.85 m. | | | | |
| | | | | | @7.25 m - bndg 56° | | 3.89-23.2 | 1200-1500 |
| | | | | | @12.9 m - bndg 61° | | 23.2-34 | 1550-1750 |
| | | | | | @23.6 m - bndg 49° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 38.15 | 76.35 | - | | <p>14.0-14.1 m - dfmd patch of fl Carb y Carb riebeckite met min. riebeckite v.f.g., fibrous, surrounds fl "clsts".</p> <p>lower ctc set at decrease in deformation and complex features - v. gradational. also overall colour lightens some what.</p> <p><u>f.g., mottled to bnded, radioactive dol-Carb</u></p> <p>str to med br to gr-gy. composed of f.g. suc carbonate with trace py. fl is present throughout as diss fine patches, thin to med irregular streaks and late frac fillings. its distribution is more patchy than above.</p> <p>the intervals finely, subtly colour-mottled with a brc-like text, interrupted by crudely bnded short sections, mod dfmd. less dfmd-looking than above, much late, brittle frac locly lined by fl or bio.</p> <p>complex deformation history, mostly early brittle except for fl distribution the interval is overall homo, hetero in detail.</p> <p>fl-rich sections: 44.4-48.25 m (mod, chunks, brittle frac fills and bnds), 52.0-53.15 m (wk, patchy and streaks), 54.25-59.0 (wk-mod, fine patches and dfmd bnds), 65.2-65.65 m (wk streaks), 67.85-69.95 m (mod thin bnds and streaks), 71.5-72.9 m (patchy, large chunks and heavy disseminations). It coloured: 43.45-45.8 m (gr-gy), 64.85-66.35 m (same), 71.05-73.35 m (same).</p> <p>late Carb brc dykes: 66.0-66.1 m (5 cm thick, 29° TCA). abnt late fracs 45.55-46.55 m, 47.65-48.3, 48.9-49.5, 56.6-57.2, 67.2-67.65 m, 69.4-70.2 m.</p> <p>occasionally late, v.f.g., bnded ol Carb dykes 1-4 cm ± 1 every 2 m.</p> <p>lower ctc set at and end of med br colours and decrease in dfmd.</p> | <p>@29.7 m - bndg 45°</p> <p>@32.4 m - bndg 38°</p> <p>@37.6 m - bndg 43°</p> <p>@40.75 m - bndg 37°</p> <p>@45.15 m - bndg 36°</p> <p>@61.3 m - bndg 49°</p> <p>@69.0 m - bndg 48°</p> <p>@70.5 m - bndg 44°</p> | | | |
| 76.35 | 128.85 | - | | <p><u>f.g., severly to fine bnded dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>lt to med gy to gr-gy. interval composed of fine suc welded grains of eqgr carbonate. trace py. fl as early dfmd frac fill, patches and dfmd shr bnds. fl is associated with slightly coarser grained clear gr carbonate.</p> <p>texts are severly to locky mass with occasional irregular shr bnded sections, 5-20 cm thick defined by fl laminae.</p> <p>these shr bnds comprise <10% of interval and are wkly to strly dfmd - early brcd. late fracturing present but not common fl-filled.</p> <p>occasionally late, thin, v.f.g. ol Carb dykes, less abnt than above.</p> <p>colour irregularly lightens downwards.</p> <p>fl-rich zones: 76.35-76.65 m (mod, shr bnd), 77.3-77.5 (same), 78.3-78.65 (dfmd blob), 87.1-87.25 m (wk broken frags), 88.6-89.35 m (med, broken/shr bndg), 96.25-96.95 m (wk dfmd streaks).</p> <p>overall fl signicantly less than above. late brc 98.85-100.0 m - ICE Carb clsts in f.g. carbonate mtx. mtx f.g. suc carbonate, 111.15-111.35 m, 120.3-123.3 m studded with broken, water-clear gr xtls 10% are larger pale p fl 10%, riebeckite 1%. bndg decreases downwards, dust to deformation overprint?</p> <p>below 96.5 m - fl less abnt to 105.0 (centi), 105.0-105.85 (wk, streaks), 109.7-109.85 m (mod, def patch), 112.6-113.2 (mod, early brc mtx infill), 114.75-120.6 m (wk, dfmd, spaced diss patches) becomes dkr coloured 118.4-123.2 m.</p> <p>note. core below 105.5 was dumped and maybe out of order - looks pretty good.</p> <p>occurs late, fl-lined fracs, not abnt. ex. v. locky.</p> <p>late carbonate - fl v. infilling 107.2 - 107.35 m.</p> | | | 72-77 | 1100-1300 |
| | | | | | @74.9 m - bndg 34° | | | |
| | | | | | @77.5 m - bndg 39° | | | |
| | | | | | @81.2 m - bndg 34° | | 77-83 | 750-850 |
| | | | | | @86.4 m - bndg 40° | | 83-90 | 550-700 |
| | | | | | @97.75 m - bndg 40° | | 90-99 | 620-800 |
| | | | | | @103.9 m - bndg 36° | | | |
| | | | | | @114.8 m - bndg 34° | | | |
| | | | | | @124.0 m - bndg 39° | | 99- 107.5 | 600-700 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|----------------------|-----------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 128.85 | 142.80 | - | | <p>base of interval set at end of deformation texts and lightening of colour. gradational and somewhat arbitrary.</p> <p><u>f.g. mottled to mass dol-Carb</u></p> <p>lt br-gy. interval composed of f.g. suc carbonate with patchy trace py.</p> <p>fl present as irregular, disseminated patches and fine irregular streaks, with late frac fills and bnded fl carbonate late vn fills.</p> <p>fl increases downwards in interval, overall not abnt.</p> | @127.3 m - bndg 38° | | | |
| | | | | <p>interval texts, are bnded at top (to 133.15 m) and colour mottled below. some m.g. modular text patches. below 140.0 m - deformation swirly texts appear.</p> | @130.1 m - bndg 30° | 107.5-130 | 450-570 | |
| | | | | <p>late f.g. xtl n carbonate dyke with py and f.g. lt b amph: 134.45-134.55 m, 135.8-136.6 m (almost parallel with CA). both are associated with (but later than) finely bnded fl Carb vns 1-2 cm thick.</p> | @131.85 m - bndg 24° | | | |
| 142.80 | 167.80 | - | A/B-T | <p>fl-rich zones: 131.85-132.3 m (shr bnds), 141.25-142.65 m (dfmd patches).</p> <p>base of interval set at beginning of vuggy text.</p> <p><u>f.g. poorly bnded, late fracd and vuggy dol-Carb</u></p> <p>lt br, lt gy, med gr-gy. interval composed of f.g. suc carbonate and frac py. fl not abnt, mainly associated diss in thin bnds and are irregular coarse patches. bndg on irregular level, defined by colour variation reflectory colour of carbonate grains.</p> | @140.0 m - bndg 42° | 130-143 | 375-475 | |
| | | | | <p>interval contains open vuggy patches, as bnds and lt br vuggy modules 3-5 cm thick and elliptical. later deformation destroys the good bndg, especially below 158.0-161.25 m.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|---------|--|
| | | | | | | | DEPTH (m) | CPS | |
| 167.80 | 185.85 | - | | vug-rich sections: 142.8-144.5 m, 147.7-149.0 m, 154.15-158.0 m, 159.85-161.0 m. almost no vugs below 161.0 m. vugs often lined with cc or rare py. zones rich in late fl-lined frac 149.1-151.0 m. | @144.4 m - bndg 47° @150.5 m - bndg 42° | | 143-149 | 500-650 | |
| | | | | fl-rich areas 149.75-150.0 m (wk bnds), 151.2-151.55 m (same), 152.95-153.25 (mod, def patches), 158.4-158.5 m, 161.0-161.6 m (wk streaks). often lesser zones. the vuggy areas are not associated with fl. | @152.6 m - bndg 42° @153.6 m - bndg 34° @156.3 m - bndg 37° | | 149- 171.7 | 600-750 | |
| | | | | colour darkens below 161.4 m. | @157.5 m - bndg 42° @161.8 m - bndg 40° | | | | |
| | | | | base of interval set at end of lt br patches - gradational. | @164.6 m - bndg 37° @165.75 m - bndg 45° | | | | |
| | | | | <u>f.g., bnded to mottled, gy and y dol-Carb</u> med gr-gy, lt y-gy and lt gy. the gy and gr-gy Carbs are f.g., suc carbonate with trace py. the y Carb is f.g. xtl, significantly coarser grained. | | | | | |
| | | | | above 176.1 the texts are thinly, wavy bnded. below bndg is almost absent, colour mottling dominates with vug ctsc - brc texts locly. | @168.9 m - bndg 38° | | 171.7- 177 | 450-600 | |
| | | | | fl uncommon, present as dots (fine) streaky v.f.g. diss and occasional late frac fillings. | @170.2 m - bndg 36° | | | | |
| | | | | Glim: 175.35-176.1 m, ctcs sharp upper irregular lower 51° TCA. composed of f.g. phl and carbonate with euh m.g. py and minor Na-amph and a lemon-y min. carbonate more than 50% locly. well fol no Carb vnlets. frac filled with phl extend 55 cm above and 25 cm below. | @173.4 m - bndg 47° | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 185.95 | 228.05 | - | B | y-gy (B Zone) coloured. 177.65-179.5 m, 183.05-183.3 m, 183.9-184.75 m. other smaller patches. fl-rich patch: 178.65-178.8 m (swirly bnds). | @175.2 m - bndg 36° | | 177- 183.7 | 340-400 |
| | | | | lower ctc gradational, set at end of gy colour and beginning of dominant y shades. | @175.8 m - bndg 40° | | | |
| | | | | no late Carb dykes. | @183.3 m - bndg 47° | | | |
| | | | | <u>f.g. xtlIn bnded to modular y dol-Carb</u> | | | | |
| | | | | lt gr-y to lt gy and lt gr. interval composed of f.g. xtlIn carbonate with trace py and fl. mag in rare f.g. clsts. | | | | |
| | | | | fl also present as clsts and streaks in bnds associated with py, tan carbonate and minor p. Na amph. | @186.4 m - bndg 40° | | | |
| | | | | the dominant text is colour-bndg often outlined by fl. locly text is modular, lt coloured equant to ameboid colour modules, often arranged in bnds. | @190.2 m - bndg 40° | | | |
| | | | | fl mod abundance, presents in thin streaks, patches of infill between modules and larger ameboid patches. | @191.8 m - bndg 37° | | 183.7- 189 | 300-350 |
| | | | | late frags common, subplanar, lined with phl, amph and tan carbonate. most often frac at about right angles to bedding. modular, less well bnded sections: 188.5-190.25 m, 200.05-200.85 m, 202.75-205.85 m, 206.5-211.1 m, 212.15-213.35 m. this interval is overall less well bnded below 202.0 m as well the y carbonate is less abnt and the unit is slightly dkr coloured. relatively fl-rich: 195.0-195.3 m (wk, bnded), 203.8-204.55 m (mod, thick diss bnds), 205.85-206.85 (wk diffuse patches), 213.7-214.0 (med cm bnds), 216.7-217.0 (med, diss module infill), 219.55-220.0 m (wk, bnded). | @195.2 m - bndg 40° @199.3 m - bndg 40° @205.45 m - bndg 37° | | 189-217 | 270-370 |
| | | | | becomes dkr coloured below 223.85 m. | @208.65 m - bndg 47° | | | |
| | | | | 201.0 to 201.75 m - mag-rich (py fl) bnds. | @213.9 m - bndg 28° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 284.80 | 309.50 | - | BD "light" | <p>strongest pk colouration: 232.9-234.1 m (streaks), 234.95-237.2 m (diss), 238.55-239.45 m (brc mtx), 242.5-243.75 m (vague bnds). 272.1-272.25 (diss patch). 270.95-271.6 m (bnded, 278.8-279.0 m (vague bnds)).</p> | <p>@258.2 m - bndg 38° @261.8 m - bndg 42°</p> | | 217-231 | 200-250 |
| | | | | <p>fl-rich zones: 228.4-229.4 m (bnds), 231.65-232.15 m (same), 242.35-242.75 m (broken bnds), 260.55-261.3 m (diss in bnds with REE Carb)</p> | <p>@265.3 m - bndg 51° @268.4 m - bndg 72° (good)</p> | | 231-243 | 250-350 |
| | | | | <p>238.55 to 239.15 m - clst poor brc. upper ctc sharp 20° TCA, lower gradational. 254.9-255.2 m (ctcs bndg parallel).</p> | <p>@271.05 m - bndg 59° (good) @273.1 m - bndg 67°</p> | | 243-244 | 300-350 |
| | | | | <p>no late v.f.g. Carb dykes at all, ex 272.9-275.0 m (2 of them). well bnded 265.0-273.25 m. bndg defined by REE Carb content ± fl and py. bnded areas v. xtln - primary?</p> | <p>@277.2 m - bndg 48° @280.8 m - bndg 45°</p> | | 243-273 | 200-260 |
| | | | | <p>base interval set at decrease in abundance of pk REE bnds and increase in fl content.</p> | | | | |
| | | | | <p><u>mod bnded. f.g. xtl n dol-Carb with REE carbonate and fl</u></p> <p>v. lt gy ("cr") with pk and p bnds. the interval is composed of f.g. glassy, xtl n carbonate, with minor to 1% f.g. xtl aggregates of og (dull) REE carbonates and minor fl. the dominant text is bnded defined by concentrations of REE Carbs (pk) and fl (dk p). bnds are 5 mm-10 cm and medium sharp to diffuse. some bnded sections are mass (uncommon).</p> | <p>@284.8 m - bndg 52° @287.7 m - bndg 45°</p> | | | |
| | | | | <p>occasional zones of late fracturing.</p> | | | | |
| | | | | <p>fl-rich zones: 289.5-290.2 m, 291.25-292.4 m, 294.0-294.6 m, 301.85-363.85 m, 209.3-309.5 m, all are bnded (primary). all contain common, diss REE Carbs. other lesser zones.</p> | <p>@289.85 m - bndg 40° @294.3 m - bndg 42°</p> | | 273-286 | 250-340 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 309.50 | 320.70 | - | phl BD | <p>REE Carb-rich: 294.5-295.0 m, 295.6-296.15 m, 297.0-297.7 m, 304.7-305.05 m. all are diffusely bnded.</p> <p>zones of late fracturing: 285.85-286.3 m (also contains calcarous Glim clsts in ap-rich ol Carb), 299.35-299.6 m (18° TCA).</p> <p>lower limit of interval set at appearance of phl streaks and clsts.</p> <p><u>f.g. xtl n phl dol-Carb with calcarous Glim frac and REE carbonate</u></p> <p>lt gr-gy and dk br. overall text is poorly bnded to coarsely modular. rock consist of bnds and patches rich in dk gr phl with minor py. these alternate irregularly with ltr bnds containing of any minor to 1% f.g. clsts of og REE carbonate mins.</p> <p>interval contains xenoliths of carbonate-rich Glim, m.g., minor, 5 cm, nowhere abnt. areas containing these are often wkly brittle fracd. both ctcs of interval appear gradational. no significant fl.</p> <p>Glim xenos: 309.55 m (3 cm), 309.75-310.25 m (6 cm), 312.15 m (6 cm, almost assimilated), 315.45 m (5 cm), 318.05 (3 cm), 318.95 m (4 cm, Carb-poor), 319.75-320.0 m (3 cm), 320.6 m (3 cm).</p> <p>phl probably derived from assimilation of Glim frags.</p> <p>relative REE Carb-rich: 312.2-315.4 m, 315.65-316.8 m.</p> <p>common brittle fracs: 312.85-313.55 m, 314.7-315.0 m, 317.55-317.75 m.</p> <p>interval contains 3 late, v.f.g. lt gr Carb dykes, 2 cm thick.</p> | <p>@295.9 m - bndg 46°</p> <p>@300.8 m - bndg 49°</p> <p>@303.55 m - bndg 44°</p> <p>@306.4 m - bndg 48°</p> <p>@308.8 m - bndg 51°</p> <p>@310.7 m - bndg 57°</p> <p>@312.65 m - bndg 78°</p> <p>@314.4 m - bndg 79°</p> <p>@315.9 m - bndg 82°</p> <p>@319.85 m - bndg 57°</p> | | 286-304 | 220-270 |
| | | | | | | | 304-317 | 210-260 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 320.70 | 337.80 | - | BD "light" | <p>lower ctc set at end of phl.</p> <p><u>f.g., xtl, poorly bnded dol-Carb with REE carbonate mins</u></p> <p>v. similar to 284.8-309.5 m. rock consists of f.g. xtl carbonate with 1% REE mineral fine aggregates, minor py and trace fl. both REE fl-Carb and less so fl form concentrated bnds. the REE bnds are rather diffuse, the fl ones much better.</p> <p>degree of bndg decreases downwards.</p> <p>fl-rich areas: 324.9-325.25 m (mod, bnded), 330.1-330.2 m (abnt REE fl Carb), 331.45-331.5 m, 332.9-333.1 m.</p> <p>late Carb brc dykes 326.75 - 5 cm.</p> <p>Glim frags: 333.45-333.95 m 40%.</p> | <p>@320.9 m - bndg 52°</p> <p>@332.4 m - bndg 40°</p> <p>@325.0 m - bndg 41°</p> <p>@328.5 m - bndg 36°</p> <p>@331.5 m - bndg 36°</p> <p>@336.75 m - bndg 33°</p> | | 317-337 | 225-290 |
| 337.80 | 370.05 | - | | <p><u>f.g. poorly bnded to sliverly phl dol-Carb with large Glim xenoliths</u></p> <p>lt to med gr.</p> <p>the Carb is composed of f.g. xtl, equant carbonate, water-clear v.f.g. ap, dk gr, equant phl and minor py.</p> <p>this Carb contains sections of f.g., dk gr Glim up to 60 cm long. the Glim is highly calcareous, avgs 50% v.f.g. carbonate, locly higher. trace py and late, p Na amph.</p> | <p>@340.25 m - 43°</p> <p>@342.2 m - 33°</p> | | 337-360 | 220-310 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---------|--|--|
| | | | | | | | DEPTH (m) | CPS |
| 370.05 | 411.18 | - | | <p>this package is cut by dykes(?) of f.g. REE flc bearing dol-Carb.</p> <p>the phl Carb is pale gr and coarsely swirly - texted to module.</p> <p>the REE Carb is gy to pale pk.</p> <p>ctc indefinite.</p> <p>calcareous Glim: 337.9-339.6 m, 343.1-344.0 m (many thin Carb dykes); 344.4-344.75, 345.3-345.4 m, 350.2-351.65 m, 366.8-366.9 m.</p> <p>REE Carb: 339.75-340.85 m, 344.9-345.45 m, 347.1-350.0 m, 355.25-356.15 m, 363.9-365.75 m.</p> <p><u>f.g. Glim w phl dol-Carb vns and dykes</u></p> <p>pale gr and v. dk gr. the Glim is composed of 60% f.g. phl, 35% carbonate, 3% py and 2% elongate b Na amph. Glim masses are riddled with Carb vnlet, streaks and xtls. much of the Glim, especially above 377.6 m and 395-403.5 m. has a well developed, fine fol.</p> <p>Carb dykes 30% of interval up to 2 m thick. these are v. leucocratic phl with some py and a REE flourical - rare.</p> <p>thicker Carb interval: 381.25-383.75 m, 384.7-386.0 m, 388.45-389.5 m, 403.45-405.05 m, 408.75-409.85 m.</p> <p>fol: @387.7 m - fol 55°; @394.5 m - fol 41°; @395.9 m - fol 36°; @398.5 m - fol 58°; @400.4 m - fol 46°; @402.6 m - fol 40°.</p> | <p>@346.9 m - 55°</p> <p>@349.65 m - 44°</p> <p>@351.25 m - 58°</p> <p>@355.0 m - 65°</p> <p>@358.6 m - 65°</p> <p>@363.4 m - 59°</p> <p>@371.8 m - fol (Glim) 55°</p> <p>@374.65 m - fol (Glim) 73°</p> <p>@376.25 m - fol (Glim) 68°</p> <p>@382.2 m - bndg 50°</p> | | <p>360-365</p> <p>365-370</p> <p>370-411.2</p> | <p>200-240</p> <p>250-280</p> <p>210-260</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--------------------------------------|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | fl Carb: 408.05-408.35 m. EOH | | | | |

Handwritten signature and date: 06/23

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|----------------------------------|
| Property: Eldor Property | Easting (m): 536238.50 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 02, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312315.53 | Rig Type: Zinex A5 | Date Completed: Aug 09, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Not Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.88 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 657.75 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: A. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 2.87 | OVB | | <u>Ovb</u> no core. | | | | |
| 2.87 | 20.65 | - | | <u>f.g. dol-Carb with fl-rich zones</u> It gy to lt gy-br with med gr-gy patches. the Carb is f.g., suc text. this interval often displays p fl-enriched zones which appear fine and shr bnded. fl present as thin mass bnds (± 3 mm) and in frac fls, often with py and f.g. phl (?). the shr bndg varies from planar - brittle interval displays shr bndg throughout - no mass. sections. wispy y-br areas. some late, in, phl and filled fracs. gr sections (less well bnded) 4.85-5.55 m, 6.65- 7.15 m, 8.3-8.65 m, 12.5-13.3 m, 15.3-16.3 m, 17.95-19.25 m. fl-rich zones: 3.65-4.75 m (poor bnded), 8.25-9.45 m (wk), 10.5-10.8 m (str), 11.9-12.3 m (wk), 13.35-13.6 m (mod), 13.75-15.4 (wk-mod), 19.35-20.65 (wk). bnded-modular text: 8.75-9.05 m, 10.5-11.0 m, 11.95-12.15 m, 20.0-20.6 m. | | | 2.95-7.5 | 650-800 |
| | | | | | @7.3 m - fol 39° | | | |
| | | | | | @9.4 m - fol 39° | | | |
| | | | | | @14.2 m - fol 35° | | 7.5-22.2 | 450-550 |
| | | | | | @16.9 m - fol 37° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------------------------|--------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 20.65 | 51.90 | - | A | <p>late, undefined med ol v.f.g. Carb dykes: 7.4 m (bnded 2 cm thick, 23° TCA), 13.35-13.55 m (4 dykes, 1-2 cm, 40°), 15.8 m (4 cm, 14°), 16.25 m (1.5 cm, 24°), 18.3 m (35°, 2.5 cm). as well as the fl bnds there are f.g. dk br bnds without fl. these tend to be in to wispy fillings irregular early frac. zones rich in this material 8.75-9.25 m, 10.45-10.8 m, 11.9-12.15 m, 13.4-13.55 m, 13.8-14.0 m, 14.4-14.6 m, 15.1-15.25 m, 18.1-18.2 m, 20.3-20.65 m. these rich in REE?</p> <p>end of interval set at end of sharp shr bndg and gy colour.</p> <p><u>bnded to swirly - mass f.g. dol-Carb</u> med gy-gr.</p> <p>interval composed of v.f.g. suc, eqgr carbonate. minor f.g. py and 1-2% fine flecks of p fl.</p> <p>texts vary from finely lam to swirly mass. shr bndg present as 20 cm to 1 m long intervals seperately by the Carb.</p> <p>fl present as thin lams, filling irregular elaly [sp?] fracs and as shreds and fine patches in more brittle bnded zones. rare mass, broken vns.</p> <p>irregular, v.f.g. zones of dk br material present as above mostly as early open space filling in brittle-texted areas - porosily infill. less abnt than above.</p> <p>fl-rich zones 23.0-23.15 m (mod), 24.0-24.5 m (wk), 24.9-25.35 (mod), 25.7-26.15 (mod), 31.0-32.45 m (mod patchy), 33.85-34.85 m (chunk, v. str, REE), 41.95-42.15 m (str, broke vns), 43.25-43.5 m (mod), 46.4-46.6 m (brc infill), 45.9-47.2 m (wk, patchy), 48.0-53.5 m (wk, broken fine flecks).</p> <p>below 45.35 m - texts become more irregular, finely brittle, mottled, hetero, unbnded.</p> <p>zones of dk br (REE-rich?) material 25.0-25.35 m, 36.1-36.8 m, 37.5-37.75 m, 43.25-43.45 m, 46.45-46.65 m (str), 51.95-52.2 m.</p> | <p>@19.5 m - fol 43°</p> <p>@20.5 m - fol 41°</p> <p>@21.75 m - fol - bndg 38°</p> <p>@30.15 m - fol - bndg 35°</p> <p>@35.6 m - fol - bndg 39°</p> <p>@39.75 m - fol - bndg 39°</p> | | <p>22.2-27.5</p> <p>27.5-32</p> | <p>550-700</p> <p>700-1000</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| 51.90 | 71.30 | - | | early zones of fine brittle frac, now dfmd 22.1-22.5 m, 25.85-26.15 m, 31.05-32.0 m, 35.75-36.5 m, 37.5-37.9 m, 42.0-43.25 m (wk), 45.9-53.5 m. | @43.4 m - fol - bndg 39° | | 32.0-42.0 | 550-675 |
| | | | | lower ctc set at beginning of dominantly lt gy colour and more brittle textes. | | | 42.0-52.0 | 700-950 |
| | | | | <u>f.g. mottled to shr-brcd dol-Carb</u> lt gy to pale gr-gy. | | | | |
| | | | | interval consist of f.g., suc texted carbonate. trace f.g. py and 1-2% f.g. flecks of p fl. the text is a fine, healed brc with a mtx of p fl. the brc is early and dfmd locly. carbonate frags often rnded on modular "pressed" together mtx 1-20% fl. | @52.5 m - fol - bndg 37° | | 52.0-57.0 | 550-700 |
| 71.30 | 86.00 | - | A/B-T | early shr-brc, brc often has wk preferred orientation. | | | | |
| | | | | much late, v.f.g. ol Carb dykes, most often sul core parallel. | | | | |
| | | | | lower ctc abrupt set at onset of gr colouration and end of dominant brittle textes. | @53.8 m - fol - bndg 39° | | | |
| | | | | fl present throughout, fairly homo distrubution, 10-20% ex fine late dykes. | | | | |
| | | | | late v.f.g. Carb dykes, 51.1-51.75 m (blotchy, non-planar, cut by 1 cm mag brc-dyke (57.55 m), 58.0-59.55 m (single, wavy 4 cm core parallel dyke), 60.25-61.15 m (str faulted 6 cm core parallel dyke), 61.8-61.9 m (blebs), 66.15 m (planar 3 cm dyke 53°). | @56.7 m - fol 27° | | 57-65.6 | 650-900 |
| | | | | fl-rich zones: 55.05-56.7 m (med, patchy), 64.85-65.3 m (mod, diss), 65.95-67.2 (str, v. str), gr colour grad increases below 62.0°. | @66.8 m - fol 41° | | 65.5-67 | 1000-1300 |
| | | | | <u>f.g., suc, poorly bnded dol-Carb</u> shades of gr-gy. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 86.00 | 104.75 | - | | <p>interval composed of f.g. suc carbonate. not homo, zone larger (still f.g.) carbonate xtls. almost no accessory min. p fl present throughout with associated f.g. py and xtls of Mg-Fe carbonate (br). present as irregular vnlets, blebs and streaks in dfmd shr texted area.</p> <p>irregular shr to brittle-shr text present-dominant separated by patches of mottled text with little fl.</p> <p>lower ctc set at end marked decrease in shr text, appearance of patches of y-gr and decreases in RA.</p> <p>The "fol" zones vary. frac plastic shr to psd-brc - module.</p> <p>fl-rich areas: 71.8-72.5 m (wk), 73.35-74.3 m (wk), 74.65-75.6 (str, patches), 77.6-78.75 m (mod, patchy), 82.55-83.05 m (wk-mod), 85.3 m (3 cm mass vn).</p> <p>relatively unbnded intervals: 71.3-73.35 m, 75.1-75.8 , 79.9-81.5 m, 83.05-83.5 m, 84.35-85.0 m.</p> <p>late, v.f.g. ol Carb dykes thin (>1 cm) and rare.</p> <p><u>f.g. mottled-texted dol-Carb (A zone?)</u> lt gr-gy to lt br-gy.</p> <p>rock is composed of f.g. suc to poorly xtl n carbonate, virtually without accessory min. carbonate is hetero in xtl size (all f.g.).</p> <p>fl present throughout, less than above. present as fine (sub-cm) patches and streaks in bnded areas, again with the Mg-Fe carbonate. no "gdmass" fl and no broken vn fl.</p> <p>shr texted zones are less abnt here and are only crudely bnded. much brittle influence. the non-shr texted sections are swirly text to rarely mass. all textural ctc gradational. patches of y-gr colour: 86.0-91.8 m, 96.55-96.95 m.</p> | <p>@72.5m - fol 49°</p> <p>@76.6 m - fol 36°</p> <p>@78.6 m - fol 37°</p> <p>@82.75 m - fol 41°</p> <p>@85.0 m - fol 19°</p> <p>@88.7 m - fol 42°</p> <p>@88.8 m - fol 29°</p> <p>@91.4 m - fol 39°</p> | | 67-83 | 750-900 |
| | | | | | | | 83.0-89.0 | 550-650 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 104.75 | 123.25 | - | | <p>fl-rich areas: 86.0-86.5 (wk), 89.2-89.95 m (wk), 96.2-96.8 m (wk), 97.95-98.6 (wk), 94.4-100.3 m (wk, patchy), 103.45-104.3 m (mod). relatively unshrd: 86.0-88.4 m, 89.3-93.5 m, 94.3-95.4 m, 97.2-98.0 m, 98.3-99.3 m.</p> <p>late qtz vn with v.c.g. fl 92.15 m (1.5 cm 17° TCA).</p> <p>occasional thin (>1 cm), often bnded v.f.g. late Carb dyklets.</p> <p>lower ctc set at change to overall more mass text.</p> <p><u>late fracd f.g. dol-Carb</u> str br-gy to med gr-gr-br. colour darkens downwards.</p> <p>interval characterized by abnt late brittle fragc.</p> <p>the original texts are same as above, but these are disrupted by brittle deformation.</p> <p>the fracs are often coated by wash of fl.</p> <p>locly culminates in mottled texted mtx-poor brc.</p> | <p>@94.2 m - fol 53°</p> <p>@100.2 m - fol 41°</p> <p>@101.6 m - fol 43°</p> <p>@103.8 m - fol 38°</p> | | 89.0-100.5 | 550-800 |
| | | | | <p>107.1 m to 110.25 m, 105.55 to 106.45 m - late true brc. Carb frags 1mm-6cm, poorly sorted in a slightly coarser carbonate mtx. frags can be quite ang. mtx 20-50%. upper ctc gradational, lower sharp, 30° TCA.</p> | @107.6 m - early fol 43° | | 100.5-107.0 | 400-500 |
| | | | | <p>116.95 m to 123.25 m - zone of mag. here the rich contains patchy diss equant fine mag pbls, associated locly with mg py mod astrophyllite (??) y, radiating mag not frac controlled. up to 15% mag. fl-rich (early) 110.6-111.05 m (mod), 113.0-113.25 m (wk), 114.25-114.7 m (wk), 115.5-115.85 m (wk).</p> <p>patch of abnt mag. 112.65-113.0 m 50% mag (1100 CPS).</p> | @110.85 m - early fol 31° | | 107.0-119.5 | 760-900 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|-------------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 123.25 | 129.40 | | | <p>colour significantly darkens below 120.5 m.</p> <p>lower ctc set at end of diss mag usually gradational.</p> <p><u>str fracd f.g. dol-Carb</u> med gy-br. most of interval displays irregular shr bndg, str disrupted by late, brittle fracs often lined with fl.</p> <p>the early fl is associated with br Mg F-Carb, the later is pure.</p> | @122.25 m - early fol 36° | | | |
| 129.40 | 150.25 | - | | <p>Carb is f.g. suc. no accessory min. fl present as shrd streaks, broken frags and late vnlets. early fl associated with Carb, F-Carb, y xtls and fine(?). overall not abnt. lower ctc set at end of late fracg.</p> <p><u>mottled to shr bnded f.g. dol-Carb (A-B trans?)</u> It gy to med gy-br. most of interval is irregularly shr bnded, defined by colour variations and fl. between shrd texted areas the Carb is colour mottled - mass. complex low temp history.</p> <p>fl present as fine shr bnds, fine broken bits, broken thick vns and lesser late frac filling. most of the fl is internally complex, with Fe Mg Carb, dol py and f.g. REE mins drising the fl. the late fl is purer.</p> <p>fl-rich areas: 129.4-129.65 m (broken vn), 131.0-131.5 m (wk-mod), 133.85-134.15 m (broken vn frags), 136.45-137.0 m (wk), 138.1-138.7 (wk), 140.85-141.55 m (mod), 142.2-143.05 m (str), 145.15-145.8 m (wk), 148.6-149.1 m (wk).</p> <p>dominantly mottled-mass: 129.85-131.0 m, 131.7-132.25 m, 133.75-137.5 m, 138.15-138.65 m, 141.2-142.2 m, 142.6-146.1 m.</p> <p>141.55 m to 141.72 m - late planar lt gy Carb dyke (45° TCA).</p> | <p>@127.9 m - fol 29°</p> <p>@131.5mm - fol 18°</p> <p>@133.0 m - fol 37°</p> <p>@139.25 m - fol 28°</p> <p>@144.5 m - fol 25°</p> <p>@146.5 m - fol 25°</p> | 119.5-127.0 | 1000-1300 | |
| | | | | | | | 127.0-131.5 | 800-1000 |
| | | | | | | | 131.5-135.0 | 700-550 |
| | | | | | | | 135.0-150.0 | 650-850 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 150.25 | 183.95 | - | | <p>130.55 m - glassy qtz vn with v.c.g. fl (4 cm) with galena.</p> <p><u>swirly-mottles textes f.g. dol-Carb with fl</u></p> <p>lt med gy-br, with gr cast. interval composed of f.g. suc carbonate with out accessory mins. interval contains p fl throughout as low to med patchy, broken vns and disrupted shr bnds.</p> <p>microscopic text is mottled, chaotic jumble of colour, swirly and in patches. appears to be brittle-ductile wk deformation of original shr bnded text. overall rather homo but clastic in detail.</p> <p>fl as dfmd shr bnded patchy, fine broken frags outlining modular text. mod dfmd.</p> <p>major fl-rich zone: 152.85-153.45 m (wk), 155.75-156.4 m (mod), 158.0-158.35 m (str patchy), 163.0-163.8 m (mod broken frags), 167.35-168.5 m (wk), 169.9-171.15 m (patchy), 172.15-175.55 m (wk, patchy), 177.65-178.15 m (wk), 180.35-181.85 m (wk).</p> <p>relatively dk coloured: 159.1-160.05 m, 167.5-168.50, 175.2-178.2 m.</p> <p>late, v.f.g., planar, often ol carbonate dykes present ≥ 1 cm, ± 1 every 2 cm or so.</p> <p>lower ctc set at beginning of lt y-gr ameboid modular patches.</p> | <p>@150.1 m - fol 23°</p> <p>@159.3 m - fol 37°</p> <p>@164.7 m - fol 25°</p> <p>@170.85 m - fol 63°</p> <p>@177.6 m - fol 51°</p> | | | |
| 183.95 | 200.50 | - | | <p><u>ameboid - modular f.g. dol-Carb with fl</u></p> <p>med gy-gr with lt y-gr modules. this interval is characterized by presence of "fluffy", lt, ameboid modules. looks like clouds 0.5-3 cm, usually equant. composed of f.g., suc Carb without accessory mins. these comprising 20-50% of the rock. the remainder is med gr f.g. Carb with fl fine frags and patches. no shr text, destroyed by deformation and modules (latter undfmd).</p> | | | 150.0-158.0 | 450-550 |
| | | | | | | | 158.0-171.0 | 500-600 |
| | | | | | | | 171.0-180.0 | 630-730 |
| | | | | | | | 180.0-188.0 | 750-900 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------------------|-----------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 200.50 | 210.50 | - | | <p>fl-rich zones: 183.95-186.45 m (mod), 186.65-187.1 m (wk), 188-188.15 m (mod), 188.35-188.55 m (mod), 188.9-189.35 m (mod, c.g.), 190.3-191.15 m (wk), 191.65-192.05 m (mod), 192.45-192.9 (wk), 193.8-194.0 m (mod), 196.88-199.1 m (mod, patchy), 200.5-203.0 m (mod, patchy).</p> <p>relatively module - free 184.5-186.3 m, 187.0-187.7 m, 195.9-196.75 m.</p> <p>late v.f.g. ol Carb 186.05-186.15 m, 187.07 m (4 cm), 187.95 m (6 cm), 188.1-181.33 m, 192.05-192.47 m. many lesser ones. longest concentration of these seen so far.</p> <p>base of interval set at end of abnt "cloudy" modules.</p> <p><u>mass f.g. dol-Carb</u> It gr-gy. f.g. suc carbonate with fine fl and f.g. py. fl not abnt, found in concentrated 10-20 cm patches.</p> <p>text is mostly mass to str modular. patches of "cloudy" modules (as above) 202.65-203.1 m, 203.3-203.9 m, 207.3-207.75 m, 209.2-209.7 m. fl patches 200.5-201.1 m, 201.55 m, 201.7-201.95 m, 202.7-202.9 m (mass f.g. frag), 203.3-203.4, 203.7-203.85 m, 206.85-206.95 m. late v.f.g. ol Carb dykes 204.65-205.25 m (!), 205.35-205.55 m. other ± 1 cm ones.</p> | | | 188-191 | 650-750 |
| | | | | | | 191-198.5 | 450-520 | |
| | | | | | | 198.5-205 | 550-700 | |
| 210.50 | 226.45 | - | | <p>base of interval set at str increase in fl content.</p> <p><u>mottled f.g. dol-Carb with fl zones</u> It gr-gy and p. the carbonate is f.g., mass to colour mottled. set inches are swirly, irregular zones of abnt f.g. fl with longer patches. irregular ctc. obviously strongly dfmd - brcd - healed. these have a much more complex text than the fl-poor areas.</p> <p>the fl patches 10-50cm long and comprise 60-70% of interval, most abnt 214.65-221.7 m.</p> <p>late v.f.g. ol Carb dykes 214.4-214.6 m, 216.25-215.3 m, 223.1 (2.5 cm). common thinner ones.</p> | @216.3 m - fol 31° | | 205-210 | 500-620 |
| | | | | | | 210-215 | 550-620 | |
| | | | | | | 215-219 | 450-500 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--------------------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 226.45 | 246.40 | - | | <p>lower ctc set at end of fl-rich zones.</p> <p><u>f.g. mass to swirly dol-Carb with brc zones</u> med gr-gy, colour lightens irregularly ddownwards.</p> <p>f.g. suc carbonate without preferred orientation.</p> <p>Tr f.g. py. interval is mass to vaguely modular (colour variations).</p> <p>p fl occurs as thin streaks, broken vn frags and as brc mtx, all in patches not common.</p> <p>fl-rich area: 229.75-230.20 m (brc mtx), 236.25-236.35 m (streaks), 238.9-239.1 m (streaks), 241.85-242.25 m (same), 242.85-243.5 m (broken chunks), other lesser zones.</p> <p>late brc: 231.5-232.15 m, 239.80-240.9 m.</p> <p>f.g. Carb clsts sub-rnd to sub-ang 1-20 mm.</p> <p>in a f.g. Carb mtx. upper ctc abnt, lower more gradational.</p> <p>@240.25 m - thin qtz vn (1 cm).</p> <p>below 238 unit becomes more modular, less mass. occasional late, v.f.g. planar ol Carb dyke.</p> <p>base of interval set at increase in fl content and lightening of colour - gradational.</p> | | | 219-222 | 550-650 |
| | | | | | @242.1 m - fol 35° | | 222-234 | 750-850 |
| | | | | | | | 234-240.5 | 850-1100 |
| | | | | | | | 240.5-247 | 650-800 |
| 246.40 | 291.70 | - | | <u>f.g. mottled dol-Carb with fl-rich sections</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------------|---------|-----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 291.70 | 317.15 | - | | med <i>gr-gy</i> . Carb composed of f.g., suc eqgr carbonate trace py only accessory min. interval consists of sections of vaguely mottled text Carb alternating with sections rich in fl. fl is present as streaks and broken frags and itsl between carbonate "clsts" - psd-brc - looks moderately dfmd. fl with og-pk, to pale r-br, v.f.g. REE min (?). | | | | |
| | | | | fl-rich sections: 246.7-248.0 m, 249.1-251.90 m, 252.95-256.60 m, 265.6-268.8 m, 271.10-271.95 m, 273.6-283.0 m, 290.8-291.7 m. these contour 5-20% fl. other lesser zones. | @271.7 m - fol 20° | | 258- 265 | 500-600 |
| | | | | late brc: 259.65-262.40 m. sub-rnded to sub-ang clsts of v.f.g. Carb in a carbonate mtx. mtx-sup clsts mtx 1:1 completely undfmd. | @280.25 m - fol 19° | | 265- 267.5 | 600-700 |
| | | | | lt cr coloured 249.70-251.20 m ctc gradational, 255.6-256.50 m. | @284.2 m - fol 39° | | 267.5- 274.5 | 500-600 |
| | | | | shr-brc infilled with fl: 274.30-276.0 m (15% fl). | | | 274.5- 280 | 400-550 |
| | | | | occasional late planar, v.f.g. Carb dykes 0.5-3 cm thick. | | | 280- 286 | 650-800 |
| | | | | widely scattered thin (0.3-1 cm) late qtz vnlets. | | | | |
| | | | | <u>mass f.g. dol-Carb</u> | | | | |
| | | | | lt to med <i>gy</i> . locky med <i>gr-gy</i> . rock is composed of f.g. suc eqgr carbonate. trace mg py. locky the carbonate contains ang fine, clear carbonate xenocryst. fl present as fine "clsts" of diss py, minor. zones of fl enrichent are minor and wk. | | | | |
| | | | | text is mass, vaguely modular to psd-brc, by wk colour variations. interval looks like above without fl and ltr coloured. homogenous. | | | | |
| | | | | zones of relative fl enrichment: 294.4-294.5 m (wk), 299.8-300.4 m (wk, finely diss), 301.25-302.0 m (wk), 312.75-313.1 m (wk c.g. clsts), 315.7-317.05 m (mod, patches of ab fl). | | | 286- 305.5 | 400-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|--------------------|-------------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 317.15 | 359.40 | - | | occasional v.f.g., sharp, ol Carb dyke ≥ 1 cm ± 1 even. 4 m, fewer than above. | | | 305.5-313.5 | 550-700 |
| | | | | late undfmd brc: 292.0-294.15 m, 296.35-297.1 m, 298.15-298.6 m. clsts of f.g. Carb in f.g. Carb mtx. clsts mostly 1 cm or less. clsts: mtx 1-1. in minization. | | | | |
| | | | | lower ctc set at beginning of brittle fracs and slightly more complex texts. | | | | |
| | | | | <u>mass to mottled, str fracd f.g. dol-Carb</u> | | | | |
| | | | | It gy to gy-br. this interval is similar to the one above. Carb is f.g., suc, eqgr. in places it is micro xenocrytic. locky the Carb gains are sub-hedral and the text verges on finely xtln. trace mg py. | | | | |
| fl is not abnt $\pm 1\%$. it is present as fine broken xenocrysts and fine, in patches which look like they xtld with the carbonate/. unit textes are mainly colour mottled reflecting a complex history. many areas are mass. | | | | | | | | |
| interval cut by patches of late brittle fracs outlined in dk gy. there is often slight displacement along there. | | | | | | | | |
| relatively fl-rich areas: 318.4-318.6 m (wk), 325.75-327.25 m (wk, diss and streak), 331.25-331.4 m (wk diss), 332.7-332.9 m (diss and frac filling). | @326.6 m - fol 30° | 313.5-318.5 | 750-950 | | | | | |
| mostly mass: 317.2-321.0 m, 328.5-329.4 m, 329.7-330.7 m, 332.9-337.3 m (str frac). | | 318.5-331 | 750-1000 | | | | | |
| colour darkens downwards, str below 326.5 m. late fracs lined with py 335.8-336.15 m. late and undfmd brc 339.05-343.65 m, v. mtx-poor (10-20%). late brittle fracs increases in intensity 239-349.3 m. | @331 m - fol 38° | 331-339 | 450-550 | | | | | |
| fl more abnt 346.0-349.5 m. | | | | | | | | |
| relatively fl-rich areas: 344.15-346.35 (frac controlled), 347.0-348.1 m (frac), 348.2-349.3 m (frac and heavy diss), 352.55-352.85 m (early frac), 353.7-354.9 m (rare), 356.5-356.9 m (frac and diss, mod), 357.65-358.2 m (same). | | 339-358 | 300-400 | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 359.40 | 368.75 | - | | <p>base of interval set at end of prominent brittle frac and appearance of patchy xenocrystic text.</p> <p><u>f.g. mass dol-Carb with xtln Carb xenocrysts.</u></p> <p>med gy to br gy with cr clsts. this rock is composed of f.g. suc Carb with trace py. set in this mtx are equant, sub-ang clsts of f.g. xtln lt cr Carb. these clsts are most often mtx-sup and 0.5 cm in diameter. clst distribution is somewhat patchy, up to 50% locky. the mtx occasionally contains patchy itsl fl.</p> <p>interval cut by late, ol, v.f.g. Carb dykes 0.5-5 cm thick, somewhat more irregular than usual.</p> <p>fl is not abnt, overprint 5-10 cm patches.</p> <p>rock is completely mass and looks undfmd. xenocryst begins to fade out below 366.25 m. lower ctc sharp, 40 TCA°, upper indefinate.</p> <p>fl-rich patches 361.75-362.3 (wk), 362.5-362.6 m (mod), 367.45-367.55 (mod, xenolith?) 368.6-368.75 m (mod).</p> | | | 358-368 | 400-470 |
| 368.75 | 447.20 | - | | <p><u>irregular modules texted f.g. dol-Carb Carb</u></p> <p>lt to med br gy. rock consists of lt cr modules and patches in a mtx of f.g. med gy-br mtx. the modules are equant to ameboid, sometimes in mass clumps most often mtx-sup 30-85%.</p> <p>the modules are f.g. and xtln, the mtx finer grained and suc to xtln. the modules are in general larger and much more irregular than the xenocrysts in the interval above.</p> <p>fl is not abnt, present as mtx diss, fine streaks. patchy.</p> | @370.0 m - fol 23° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|--|---|--------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 447.20 | 500.60 | - | | <p>fl-rich zones: 370.25-371.3 m (mod, streaky), 377.70-379.4 m (wk, itsl), 384.2-384.65 m (mod, itsl), 389.75-390.0 m (fine streaky), 391.35-391.5 m (mod,diss), 392.5-392.75 m (wk,diss), 401.45-401.75 m (wk, diss). 402.2-403.2 m (diss, wk), 405.7-405.95 m (itsl patchy), 410.5-410.85 (wk), 423.75-423.85 m (mod). below 419 m distribution of ameboids modules ("clouds") more patchy. 434.5-435.1 m (wk, diss, itsl), 439.05-439.3 m (wk, diss).</p> | @387.2 m - fol 32° | | 368-393 | 200-370 |
| | | | | <p>relatively module-poor 368.75-375.85 m. this zone is f.g. mass: 419.15-421.6 m, 428.15-430.35 m, 436.70-439.3 m, 439.95-443.20 m. interval darkens to med, gy 428-???? [blank].</p> | @399.3 m - fol 42° | | 393-403 | 250-300 |
| | | | | <p>occasional late, planar, v.f.g. ol Carb dykes 1-9 cm thick. cut everything. str patches of lt y-gr colour appear 394.0-402 m.</p> | @419.5 m - fol 35° | | 403-414 | 200-250 |
| | | | | | @430.7 m - fol 34° | | 414-420.5 | 250-350 |
| | | | | <p>mass zone wkly brcd: 440.0-444.25 m f.g. carbonate mtx.</p> | | | 420.5-438.5 | 350-450 |
| | | | | | | | 438.5-441 | 450-550 |
| | | | <p><u>fraced and brcd coarsley mottled f.g. dol-Carb.</u></p> <p>lt gr-gy, med-br, med gy, dk p. text hetero. most of interval is coarsely colour mottled to poorly bnded reflecting str dfmn (plastic). this text is overprinted by common brittle frag culminating in locl brc zone. this frag is late and undfmd.</p> <p>brc is of two types, an earlier Carb mtx brc (as seen in intervals above) and a later fl mtx brittle brc.</p> <p>the Carb is f.g. with a swirly-mottled text, reflecting an early brc event now healed and redfmd. the fl and py added at that time.</p> <p>fl present as fine patches in early brc, rare early shr bnds and late infilling of brittle frags and brc.</p> <p>Carb mtx brc: 452.9-453.1 m, 454.4-458.85 m. sub-ang to rnded by Carb clsts in med gy Carb mtx. mtx clsts 5:3.</p> | @447.9 m - fol 28° | | | | |
| | | | | @453.75 m - fol 50° | | | | |
| | | | | @459.55 m - fol 29° | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 500.60 | 524.65 | - | - | late brittle brc: 466.75-467.4 m, 469.75-470.55 m. ang 0.50 m and frags in mtx of Carb fl poik (pk1? pkb?) c.g. py mag aegerine y-og acicular, glassy radiating xtl. thid brc is the culmination of the late fracg event. | @462.9 m - fol 28° | | 453- 478 | 250-350 |
| | | | | no late fracg above 464.5 m. | | | | |
| | | | | vein of Carb fl mag phl py 450.23-450.3 m. mass, med br Carb with pheno of mag fl phl riebeckite 450.3-451.35. | @484.7 m - fol 32° | | | |
| | | | | fl-rich (outside of late brc) 447.85-447.95 m (shr bnds) 449.2-449.3 (wk), 453.0-453.9 m (diss and shr bnds), 461.75-466.25 m (with diss in mtx of dfmd brc), 470.55-476.85 m (same without shr bnds), 479.75-481.9 m (infill, 483.05-484.90 m shr streaks and fracg infill, 485.75-487.65 m (early brc infill, late frac infill), 488.55-489.5 m (early and late), 492.75-493.45 m (early brc infill), 493.9-485.5 m (str, early and late). | @495.4 m - fol 47° | | 478- 495.5 | 250-320 |
| | | | | these latter late frac fl come with abnt dk gr phl, 497.0-498.15 m (late, mostly phl). | | | | |
| | | | | zone rich in phl filled in frac and brc 493.9-499.1. | @497.2 m - fol 51° | | 495.5- 499 | 250-400 |
| | | | | v.f.g. mass and gy Carb 489.55-492.1. late dyke(?) with xenoliths | | | | |
| | | | | lower ctc set at end of mottled text and late, filled fracg and on set of good bndg. | | | | |
| | | | | <u>unlayered bnded and mass f.g. dol-Carb (end of B zone??? no y-g)</u> | | | | |
| | | | | this interval is composed of f.g. xtln Carb vertically without accessory mins. these appear to be the Carb which has been ripped up and included as modules or xenocrysts in the units above. | @502.1 m - fol 40° | | | |
| | | | | this interval contains two styles of minization. | @503.6 m - fol 41° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|--|-----------|---------------------|---|---------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 524.65 | 569.75 | - | BD | the earliest are fine "pods" and frags of fl ± Fe-Mg carbonate. the later occurs as frac filling and open space filling carbonate fl mag py riebeckite ± aegerine ± gr phl. | @506.7 m - fol 38° | | | |
| | | | | well bnded sections 500.6-505.2 m, 506.5-507.0 m, 507.5-508.1 m, 508.9-509.25 m, 516.0-516.9 m. | @511.4 m - fol 49° | 499-508 | 200-260 | |
| | | | | late frac/infill zones: 505.75-506.75 m, 508.1-508.45 m, 511.35-516.3 m (including brc infill), 520.4-520.8 m. interval becomes increasing mass below 517.5 m. | @516.7 m - fol 59° | | | |
| | | | | lower ctc set at fist appearance of REflc. aggregate and onset of better banding. | @524.1 m - fol 45° | | | |
| | | | | <u>mottled to bnded f.g. dol-Carb with REflc.</u> It gy with med br-gy and pale og bnds and patches. | @528.3 m - fol 34° | | | |
| | | | | this interval is composed of f.g., xtl carbonates. minor to 1% f.g. py and puffy aggregates of og REE mins. these latter two mins are either disseminated or concentrated in 0.5-2 cm diffuse bnds. | @532.6 m - fol 48° | 508-527 | 170-220 | |
| | | | | both appear to be primary crystallates and not related to vns etc. trace f.g. fl. | @534.75 m - fol 33° | | | |
| | | | | sections with med developed bndg alternate with sections displaying mottled psd-brc textes (early). slight amount of late fragg. | @541.0 m - fol 34° | | | |
| mod bnded sections: 527.7-529.5 m, 532.5-535.1 m, 536.5-537.2 m, 538.1-538.5 m, 539.0-539.5 m, 540.9-541.65 m, 544.5-547.25. 550.9-552.3 m, 559.4-559.8 m, 560.2-562.7 m, 563.6-564.4 m, 565.45-569.8 m, 573.0-573.6 m. | @544.2 m - fol 35° | 527-537 | 200-260 | | | | | |
| 544.45 m to 545.5 m - f.g. late undfmd phl Carb. v. homo, med-dk gy. v. ctc 28°, lower 32° TCA, back sharp. | @546.3 m - fol 39° @551.6 m - fol 41° @555.1 m - fol 43° | 537-548 | 260-360 | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|------------------------|-----------|---------------------|---|------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 569.75 | 620.15 | | | zones rich in late, brittle frags: 570.0-571.6 m, 576.25-577.0 m. | @557.4 m - fol 44° | | 548- 552 | 550-620 |
| | | | | @559.3 m - REflc is gone and the Carb is phl -py usually v. little change. patch of REE carbonatite 566.85 -566.3 m massive dyke. | @559.65 m - fol 37° | | | |
| | | | | lower ctc set at end of good bndg. | @561.7 m - fol 41° | | 552- 559 | 250-400 |
| | | | | <u>interlayered f.g. phl py C Carb and f.g. dol-Carb</u> | @565.5 m - fol 48° | | | |
| | | | | med to dk gy and w. | @569.2 m - fol 32° | | | |
| | | | | the older gy Carb (C) is f.g., xtlm and contains fine phenos of phl (gr) and trace py. it also contains scattered xenoliths of small to med sized f.g. phl carbonate rock (Glim). this rock is, cut by dykes of accessory min - free f.g. xtlm w dol-Carb. these dykes are 3-35 cm thick with rare up to 3 m. for most of the interval C:dolo 3:2. the older Carb is locly crudely bnded the younger mass. | @573.3 m - fol 55° | | | |
| | | | | interval cut by thin, irregular, late frags lined with phl and py. these often have slight movement along them. | @576.1m - fol 39° | | | |
| | | | | thicker dol-Carb dykes: 570.1-571.1 m, 573.1-574.5 m, 591.2-594.2 m. | @580.5 m - fol 55° | | | |
| | | | | areas relatively rich in late frags: 576.3-576.75 m, 578.7-579.15 m, 586.1-586.95 m, 608.3-608.95 m. | @583.2 m - fol 39° | | 559- 571 | 240-270 |
| | | | | late f.g. undfmd. suc phl py Carb dyke 587.75-590.2 m. str flow lineation. ± 30% phl. dyke contains up to 7 cm xenoliths of the dol-Carb. flow bnded near ctcs, upper irregular, lower 37° TCA. another 595.45-596.25 m. | @589.2 m - fol 44° | | | |
| dykes of fl dol-Carb (xtlm) 602.1-602.6 m, 605.8-607.15 m, 618.85-620.15 m. fl as fine bnds, diss and large mass chunks ctcs sharp. | @598.75 m - fol 44° | | 571- 577 | 230-190 | | | | |
| | @602.6 m - fol 42° | | 577- 594 | 175-210 | | | | |
| | @610.8 m - fol 41° | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---|--|-----|
| | | | | | | | DEPTH (m) | CPS |
| 620.15 | 657.75 | - | | <p>relatively thick dol-Carb dykes (conti) 602.9-605.8 m, 607.15-608.3 m, 608.45-611.85 m, 618.85-619.75 m.</p> <p>lower ctc set at end of phl-rich Carb and Glim frags.</p> <p><u>f.g., bnded crystalline dol-Carb</u> cr-w with br, gy and p bnds.</p> <p>the bnds are defined on colours and are quite diffuse. the visible bndg is reinforced by w bndg visible under UV caused by segregation of v.f.g. ap?</p> <p>rock is composed of f.g. xtlIn dol. the most common accessory min is diss py, accompanied by variable quantities of minor REflc (y-og) and fine patches of fl. all less than 1%. fl also present as thin bnds (rare) (622.9-623.7 and a few other lesser sections).</p> <p>c.g. sections 623.65-623.95 m, 634.15-634.3 m, 634.8-635.2 m, 637.2-638.45 m, 640.45-641.3 m, 641.7-641.85 m, 644.2-644.85 m, 646.3-646.65 m, 651.45-651.9 m. these appear to be xenoliths or pendants of early dol-Carbs. ctcs are mostly bndg parallel.</p> <p>below 647.0 m, interval becomes more homo and amount of REflc increases somewhat. fl increases slightly below 653.0 m.</p> <p style="text-align: center;">EOH</p> | <p>@614.9 m - fol 30°</p> <p>@616.5 m - fol 38°</p> <p>@619.25 m - fol 44°</p> <p>@622.4 m - fol 41°</p> <p>@624.9 m - fol 46°</p> <p>@629.7 m - fol 42°</p> <p>@636.8 m - fol 44°</p> <p>@643.5 m - fol 37°</p> <p>@645.8 m - fol 39°</p> <p>@648.7 m - fol 47°</p> <p>@650.6 m - fol 47°</p> <p>@653.2 m - fol 32°</p> <p>@656.2 m - fol 39°</p> | <p>594-606.5</p> <p>606.5-623</p> <p>623-657.75</p> | <p>250-340</p> <p>225-270</p> <p>160-230</p> | |

Handwritten signature and date: 06/22/23

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536237.78 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 24, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312316.15 | Rig Type: Zinex A5 | Date Completed: Sep 24, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 320° | Core size: NQ | End of Hole: 315.76 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|--|---------|---|---|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.85 | - | | <u>Ovb</u> 0.95m of bldrs and cobbles recovered | | | 3.85-11 | 450-700 |
| 3.85 | 42.40 | - | A | <u>v.f.g. suc, severly to shr bnded dol-Carb med gy-gr</u> interval composed of v.f.g suc text carbonate with trace accessory py. fl present as v.f.g. diss broken fine clsts and thin shr bnds and streaks. text is dominated by almost core parallel streaky shr bnding. where not bnded the texts are coarsely swirly to mottled psd-brc. interval is textly complex in detail but overall homo. above 12.0 m there are patches of undfmd brc of various types. colour varies in intensity but not in hue. fl-rich zones: 5.4-7.4 m (s.bnded), 17.75-18.6 m (same), 19.25-19.75 m (same), 25.1-25.55 m (psd-brc matrix), 28.7-29.85 m (same, shrd), 31.5-32.5 m (shrd streaks) 34.0-36.1 m (patchy, str shrd). these are long due to shallow angles TCA. 10.05 to 10.35 m - late crackle brc. 75% clsts mtx Carb, phl, mag. ctcs sharp 36° TCA. brc: 11.15-11.75m. Carb clsts in carbonate mtx. common, late, v.f.g. gr bnded carbonate dykes, most sub-parallel to core axis 1-9 cm thick. | 5.70 m - bndg 5° TCA 11.70 m - bndg 14° TCA 15.15 m - bndg 21° TCA 18.10 m - bndg 14° TCA 32.00 m - bndg 10° TCA 35.50 m - bndg 15° TCA | | 11.00-20.00 20.00-29.00 29.00-37.5 37.5-42.4 42.4-49 49.00-52 52.00-59 59.00-65.5 65.5-71 | 450-600 600-700 500-650 700-850 1500-1900 1300-1650 600-750 450-575 400-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 42.40 | 52.25 | - | | <p>interval poly dfmd, early and late. below 37.1 interval appears less defmd. shr bnded by wavy. colour drkns downwards* trans to below?</p> <p>base of interval set at beginning if mass text drker colour and high RA.</p> <p><u>(heavy zone) v.f.g., prtc mag dol-Carb, strly RA dk gy-gr to br</u></p> | | | 71-74.5 | 400-500 |
| | | | | <p>rock is a homo, mass interval of v.f.g., suc Carb. with microphenos of Carb, mag, lesser py and gal. trace f.g. fl, and phl in late frac fell.</p> | 52.60 m - bndg 9° TCA | | 74.5-81 | 450-600 |
| | | | | <p>interval homo extremely fine slightly irregular fracs. upper ctc shp, 67° TCA. severe ctc shrp but fracd. brc dyke 44.45-44.70 m.</p> | 56.80 m - bndg 20° TCA | | 81-98 | 300-370 |
| | | | | <p>50.0 m to 51.0 m and 51.65 m to 52.0 m - gr Carb xenolith?</p> | 71.10 m - bndg 5° TCA | | 98.00-102 | 200-270 |
| | | | | <p>lower ctc set at end of mass text and dk colour.</p> | | | 102.00-106 | 200-250 |
| | | | | <p>48.35 m qtz vn (3.5 cm 53° TCA) and 49.35m qtz vn (4 cm, 41° TCA).</p> | | | | |
| 52.25 | 78.30 | - | A | <p><u>v.f.g. mottled dol-Carb</u></p> <p>(A zone to 65.15 m A-B transition below) med gy-gr to lt gy-gr. the rock types and texts are very similar to the interval 3.85-42.40 m, possibly with less fl overall.</p> <p>65.15 m - in this interval the colour ltens significantly below. in this area the shr txts present above are largely absent, texts are defmd to mottled. fl present as broken, swirled frags and disseminations. lt coloured (lt y-gr) 58.0-59.5 m. brc: 52.85-55.75 m. sub-ang clsts of various Carb in a f.g. gr Carb mtx brc mass undfmd. late, fl filled fracs.</p> <p>74.75 m to 76.3 m - Mg Carb dyke, xtln Carb, py, very dk fl, mass undfmd.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|----------------------------|-----------|---------------------|--|----------------------------|---------|----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 78.30 | 112.50 | - | B | base of interval set at onset of paley y-gr colouration. | | | | |
| | | | | <u>f.g. poorly bnded to vaguely modular</u> | | | | |
| | | | | It y-gr to med gy. interval is vaguely colour bnded. the rock is compsed of f.g. mainly xtlIn carbonate with suc fine patches. accessory min f.g. fl blebs and minor euh py. | 77.50 m - bndg 5° TCA | | 106-112 | 270-350 |
| | | | | | 81.00 m - bndg 18° TCA | | 112.00- 115 | 210-260 |
| | | | | fl also present associated irregular coarsely diss bnds and dfmd patches. str concentrations are rare, but fl present throughout. | 85.30 m - bndg 27° TCA | | 115-121 | 190-250 |
| | | | | | 86.80 m - bndg 46° TCA | | 121-134 | 280-380 |
| | | | | interval texts dominated by diffuse colour bnding with intervening swirly to modular to mass text. the interval is relatively fl-rich above 84.5 m but below that the unit is rather homo in gross aspect. | 87.60 m - bndg 44° TCA | | | |
| | | | | | 91.50 m - bndg 40° TCA | | | |
| | | | | 78.7-79.3 m, 80.85-81.4 m, 82.3-83.1 m, 83.9-84.45 m, 86.35-87.15 m - fl-rich zones. (patchy occasional bnded, v.f.g. late Carb dykes mostly at very low angles TCA. | 96.10 m - bndg 42° TCA | | | |
| | | | | | 96.85 m - bndg 45° TCA | | | |
| | | | | 86.68-87.6 m, 95.9-97.55 m, 104.0-104.2 m - well bnded sections. | 100.65 m - bndg 31° TCA | | | |
| | | | | | 104.10 m - bndg 28° TCA | | | |
| 84.2 m to 85.1 m - zone of str late fracing and brciations. centre is fine brc. | 106.30 m - bndg 44° TCA | | | | | | | |
| | 110.60 m - bndg 31° TCA | | | | | | | |
| lower ctc set at end of y hue and beginning of REflc pk bnds y colouration begins to fade 107.0 m and the degree of dfmn also decreases downwards. wk brittle fracing present below 108.25 m. | 113.70 m - bndg 38° TCA | | | | | | | |
| | 127.80 m - bndg 37° TCA | | | | | | | |
| 112.50 | 190.00 | - | BD | <u>f.g. xtlIn bnded mass REflc dol-Carb</u> | 130.30 m - bndg 42° TCA | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | cr and med dull pk. the unit is composed of f.g. xtln with minor to trace py and fine fl. dull og, f.g. xtl aggregates of REflc are wkly diss, and more abntly concentrated in thin to thick diss bnds patches and brc mtxs infill interval texts are bnded to mass locl early brcd. | | | | |
| | | | | 114.8 m to 121.15 m - mass, f.g. dk gy dyke, 30-40% f.g. phl 55-65% f.g. xtl carbonat. Tr m.g. euh py, 5% 1-2 mm circular zoned w carbonate megacrysts. mass, no carbonate vnlt. upper ctc frac 24° TCA, lower sharp, fracd, irregular. a block of sender rock is at 112.5-112.6 m - xenolith? - no megacrysts med late fracng 121.15-126.5 m, 128.6-128.9 m, 130.6-130.8 m - most of these fracs lined with fl. some locl movement on these fracs poorly bnded 121.5-136.15 m. this zone is early brcd, section coarse, brc infilled with REE-min-bearing Carb. | 136.25 m - bndg 42° TCA | | 134-146 | 350-390 |
| | | | | 147.5 m to 154.9 m, 159.35 to 162.2 m, 164.5 to 165.55 m, 174.25 to 181.05 m - lt-coloured, relatively poor in REflc. f.g. mass text. | 139.10 m - bndg 55° TCA | | 146-152 | 250-330 |
| | | | | below 130.2 to 162.5 m - below patches of Carb megacrysts text appear. this consists of equal 1-5 mm w carbonate "clsts" present in bnds, patches, and in a mtx of pk REE carbonate, later more common phenos? | 141.20 m - bndg 28° TCA | | 152-157 | 210-250 |
| | | | | 154.35 m to 157.1 m - recent brittle frac zone, main frac 10° TCA, broken core . | 143.30 m - bndg 25° TCA | | 157-190 | 230-260 |
| | | | | 144.0 m to 144.1 m - f.g. Glim xenolith with b f.g. Na-amph. | 147.20 m - bndg 21° TCA | | | |
| | | | | fl sltly more abnt. 167.85-175.5 Mg blebs bnded with REflc. late v.f.g. ol Carb dykes present but rare. | 151.30 m - bndg 16° TCA | | | |
| | | | | base of interval set as appearance of significant phl. | 155.25 m - bndg 29° TCA | | | |
| | | | | | 158.30 m - bndg 21° TCA | | | |
| | | | | | 162.50 m - bndg 16° TCA | | | |
| | | | | | 168.00 m - bndg 25° TCA | | | |
| | | | | | 169.65 m - bndg 39° TCA | | | |
| | | | | | 171.90 m - bndg 35° TCA | | | |
| | | | | | 182.30 m - bndg 39° TCA | | | |
| | | | | | 184.60 m - bndg 33° TCA | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---|---|-----|
| | | | | | | | DEPTH (m) | CPS |
| 190.00 | 218.65 | - | phl BD "light" | <p><u>f.g. mod bnded phl dol-Carb in mass sections and REflc bnds</u></p> <p>(phl BD zone "it"). It to med gy and og-pk. the interval consists of mod well bnded sections interspaced with coarse text mass sections. the majority of the interval composed of f.g. xtlN Carb with diss and bnded f.g. gr phl and minor coarser encased pyrite. the mass rocks have a Mg modular text and are phl py.</p> <p>interspaced are less bnded sections with bnds of dull og-pk rich in f.g. REflc min. phl and REflc bearing rocks do not occur together, although there are no sharp ctcs between the two lithos. fine, vertically assimilated calcareous Glim rarely present in phl-rich sections.</p> <p>under the UV lamp, the accessory poor bnds in both rock types are strly w luminescent (ap?) also r luminessing cc grains sometimes present.</p> <p>192.4-193.0 m, 197.55-198.2 m, 206.85-211.1 m, 213.4-214.1 m, 216.65-217.5 m - REflc-rich sections.</p> <p>190.0-192.4 m, 195.65-197.55 m, 199.6-205.8 m - dominantly massive sections.</p> <p>205.0 m - late v.f.g. ol Carb dykes common above, absent in generally well bnded sections below. the bnding in this interval looks primary, not shear. the mass sections have psd-brc text, early brittle defm.</p> | <p>186.40 m - bndg 36° TCA</p> <p>189.30 m - bndg 39° TCA</p> <p>192.60 m - bndg 43° TCA REE</p> <p>195.10 m - bndg 48° TCA phl</p> <p>198.00 m - bndg 39° TCA REE</p> <p>205.85 m - bndg 57° TCA phl</p> <p>207.75 m - bndg 39° TCA phl</p> <p>210.00 m - bndg 44° TCA REE</p> <p>212.40 m - bndg 41° TCA phl</p> <p>214.50 m - bndg 49° TCA phl</p> <p>216.05 m - bndg 40° TCA phl</p> <p>218.65 m - bndg 49° TCA phl</p> | <p>190-204</p> <p>204-209</p> <p>209-214</p> <p>214-219</p> | <p>275-330</p> <p>300-370</p> <p>250-340</p> <p>230-260</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|--|--|-----|
| | | | | | | | DEPTH (m) | CPS |
| 218.65 | 243.45 | - | | <p>base of interval set at end of significant REflc-rich bnds.</p> <p><u>f.g. xtlIn bnded phl pyrite dol-Carb</u></p> <p>tan, med br, lt gr-br. this interval consists of lt coloured well bnded Carb interlayered with drker, coarse - textd bnds of modular phl py Carb. these latter consist of packed 0.5-1.5 cm carbonate nodules separated by angular "fracs" of phl. the colour bnded rocks are defined by bnds richer in phl py.</p> <p>interval is cut by late, brittle, phl-lined fracs which were abnt from patches of brc.</p> <p>small xenoliths of periodically assembled calcareous Glim are common but not never abnt.</p> <p>220.7-221.6 m, 223.25-224.8 m, 225.5-226.2 m (REE), 231.0-231.75 m, 232.3-232.8 m, 237.9-242.2 m - well bnded sections.</p> <p>221.6 m to 222.45 m, 227.9-228.4 m (wk), 242.25-243.35 m - late frac brc.</p> <p>233.0 m to 234.1 m - ctcs abrupt mass homo v.f.g. carbonate prtc Carb with 1% py and 1% og REflc, bnding parallel.</p> <p>237.7 m to 240.1 m - calcareous Glim. A few sections of bnded REE carbonate present. These are minor and weakly mineralized 225.5-225.75, 225.95-226.2, 228.55-228.85, 235.0-235.3, all ctcs bnding parallel.</p> <p>base of interval set at first sizable Glim frag.</p> | <p>220.20 m - bndg 49° TCA</p> <p>224.20 m - bndg 40° TCA</p> <p>225.75 m - bndg 58° TCA</p> <p>228.40 m - bndg 38° TCA</p> <p>232.50 m - bndg 52° TCA</p> <p>236.30 m - bndg 50° TCA</p> <p>239.70 m - bndg 52° TCA</p> <p>241.50 m - bndg 53° TCA</p> | <p>219-239</p> <p>239- 240.5</p> <p>240.5- 248</p> | <p>240-280</p> <p>300-350</p> <p>250-310</p> | |
| 243.45 | 269.55 | - | | <p><u>f.g., xtlIn bnded phl dol-Carb with Glim clsts.</u></p> <p>cr-gy to v. dk gy . the Carb is composed of f.-m.g carbonate with 1-5% phl, gr, diss and in early frac minor py, locl minor, REflc the Carb is often colour bnded but is loclly mass and accessory min poor.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|----------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 269.55 | 315.76 | - | | interval contains irregularly distributed frags of v. dk gy Glim. the small ones are aligned in the bndg. these Glim are carbonate-rich and in various stages of assimilation by the carbonate. | 245.60 m - bndg 40° TCA | | 248-258 | 270-350 |
| | | | | | 247.50 m - bndg 49° TCA | | 258-264 | 240-290 |
| | | | | 249.4-250.6 m, 250.7-252.0 m, 252.3-255.05 m, 257.35-261.15 m, 262.0-265.8 m, 266.15-268.4 m - Glim-poor sections. | 250.30 m - bndg 63° TCA | | 264-278 | 210-250 |
| | | | | | 252.90 m - bndg 57° TCA | | | |
| | | | | 254.35-254.8 m, 256.45-257.0 m, 257.25-257.4 m - fl-rich Carb dykes. these are 25+% v. coarse p fl. | 257.75 m - bndg 47° TCA | | | |
| | | | | | 259.60 m - bndg 47° TCA | | | |
| | | | | <u>Glim with phl C-Carb vns and dyke</u> | 263.20 m - bndg 50° TCA | | | |
| | | | | w-lt gy-dk br. interval consists of long intervals of variously biotized Glim from frac to zoned to complete to calcareous. most is zoned to completely biotized. the Glim is cut by fine carbonate vnltz which often have halves of biotization surrounding. these have random orientations the Glim masses have irregular ctcs bnding of any kind is virtually absent. the biotized rocks are cut by dykes of Mg, accessory min-poor Mg C-Carb ap phl py. ap content may be considerably locly. | 264.70 m - bndg 38° TCA | | | |
| | | | | | | | | |
| | | | | 293.55-294.5 m, 298.05-299.2 m, 301.95-302.4 m, 309.1-313.15 m, 275.25-277.2 m, 278.9-282.55 m, 283.0-285.15 m, 285.4-286.6 m - Carb-rich sections. | | | | |
| 289.4 m to 293.15 m - late brc. ang frags of bedded, siliceous, lt gy rocks in a v.f.g. phl mtx. ctcs sharp, ltly shrd 20° tca. brc locly muddy-alt. | | | | | | | | |
| | | | EOH | | | | | |

Durante
OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|---|
| Property: Eldor Property | Easting (m): 536414.45 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 24, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312580.87 | Rig Type: Zinex A5 | Date Completed: Sep 24, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Not Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.71 m | Note: unclear if 20' or 22' lost |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 245° | Core size: NQ | End of Hole: 512.98 m | down hole. Likely all lost. |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Durante | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 5.49 | | | <p><u>Ovb</u> rubble - broken pices of core, mix of dol-Carb, cc-Carb and siliceous clsts. dol-Carb portions are heavily wthd with lim coating, cc-Carb has lrg mag xtls within (up to 1 cm).</p> | | | | |
| 5.49 | 7.85 | | | <p><u>amph qtz dol-Carb</u> v.f.g.-c.g. lt ol-gy to med gy, brd, siliceous dol-Carb. abnt cr-w opaque dol clsts, rnd-euh, up to 3 cm wide. common dk gy-br patches that are dominantly qtz + v.v.f.g. mafics (bio?). sparse pale r patches throughout, calcium-rich, and occur with trace fl (REflc?). common amph throughout as specks, blotches, and bnds. at ~6.5 m, one ~1 cm asbestos vn at shallow angle TCA. multiple fracc surfaces appear to display evidence of shr-slicken sides. mostly seen through amph grains shrd across surface.</p> <p>modal mineralogy - dol-Carb 65%; qtz 25%; amph 5%; cc 5%; fl trace; sul trace; mica trace; REflc? trace.</p> <p>overall, approximately 45 cm of core loss. interval ends because of distinct change in litho.</p> | | brcd | avg | 275 |
| | | | | | | | 8.00 | 230 |
| | | | | | | | 9.00 | 320 |
| | | | | | | | 10.00 | 315 |
| 7.85 | 66.70 | | | <p><u>mag cc-Carb</u> f.g.-c.g., gy-pk-gy to pk-og v. pale on cc-Carb.</p> <p>texturally hetero, varies locly from mass-skeletal-brcd-speckled. common x-cut later v.f.g. pale ol-dk ol-gy dol-Carb dykes throughout interval. abnt c.g. mag xtls throughout, often defining spotted text, but commonly occur in clusters or diffuse vnlets-bnds. clsts average ~3-4 mm, but max @1.5 cm. mag is fairly consistently euh, but in locl patches mag is gr-gy and look like diffuse patches (v.f.g. mag and cc). abnt blk, vitreous, magnetic "needles" throughout as well, ilm?</p> | | | 11.00 | 475 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-------------------------|-----------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | modal mineralogy - cc 85%; mag (and/or ilm) 5-7%; mica (phl and/or bio) 3-4%; sul trace; qtz trace; amph trace; dol-Carb 5%; fl trace; REflc trace. | | | 11.85 | 950 |
| | | | | throughout core, ~1 mm wide elongate xtls of f.g dk br min, v. soft (phl?) - not distinctly platy like you would expect. often area around these xtls are rusted/wthd dk br-r (with pk contrast, sort of looks p). from ~9.30 to 15.32 m, phl? "strings" give cc-Carb distinct skeletal texture. | | 9.30-15.32 m skeletal | 12.00 | 450 |
| | | | | within cc-Carb are abnt diffuse gr and dk b patches-vnlets. these seem to be a former mag and/or amph clst that has been broken or replaced somehow. in the gr varieties under the scope you can literally see where amph xtls used to exist (now cc-Carb remains - amph stained? Carb) - not to be confused with pale ol dol-Carb clsts. @~13.90 m, dk gy-br patch with ~715 CPS, v.f.g. blk min discs (pych?) ~2.0% TREQ on XRF. 14.47 to 14.90 m - v.f.g. to v.c.g. pale ol-gr-gy brcd dol-Carb bnd (v. similar to previous vnl described). abnt cr-gy dol xtls (up to 1 cm) - xtl, with v.v.f.g micro vnlt/stylolites? of bio ± sul? sharp ctc with cc-Carb. they reoccur throughout, and commonly have honey br-y mnz diss within. @15.57 m - ~3 cm dol-Carb dyke with abnt elongate blk-br clsts all in the same orientation - phl?, this reocurs throughout internal. | dol-Carb dyke x-cutting | | 13.00 | 490 |
| | | | | | | | 13.90 | 720 |
| | | | | | | | 14.00 | 525 |
| | | | | | | | 15.00 | 485 |
| | | | | beginning @~16.45 m, fairly common rusty br "clsts" throughout Carb - often euh in shape, appear to just be wthrd sul - reoccurring. | | | 15.35 | 685 |
| | | | | | | | 16.00 | 470 |
| | | | | starting @~19.42 m - rare, inconsistent patches of dk r-p-pk within dol-Carb dykes-bnds and often in occurrence with trace fl. str HCL rxn, REflc?, rhodochrosite? (v.f.g., difficult to tell if perhaps cc is just itsl to these patches). | | | 18.00 | 320 |
| | | | | | | | 18.70 | 900 |
| | | | | 22.50 to 35.45 m - ~2 mm avg diss mag xtls diss throughout cc-Carb, giving core a speckled look. often these xtals are concentrated in the more cr-gr coloured Carb. however, from 29.85 to ~31.00 m, homo mass section of cc-Carb, pale cr-w, xtl, with rare mm sized mafic vnlt. both of these textures are reoccurring throughout. | | 29.85 to 31.00 m homo | 19.00 | 700 |
| | | | | | | | 20.00 | 650 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------|-----------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | @38.91 m - 5 cm v.f.g. to c.g. brk-r patch (can see distinct elongate xtl shape) within a pale ol dol-Carb bnd that is almost 100% REflc. (bsn!) → XRF - ~30% TREO with - 152.4 K Ce; 53.5 K Nd; 87.7 K La; 2626 ppm Y. pale ol dyke in which this patch sits has f.g. diss REflc (bsn-prs?) throughout. dol-Carb on XRF is ~1.5% TREO with La:Ce ~ 2:1. | | | 21.00 | 325 |
| | | | | aside - within a lot of these brcd dol-Carb dykes are vague pk patches of cc-Carb. does dol-Carb digest cc-Carb clsts or vice versa? some ctcs look like there is definite fluid influence. (eg 48.50 m). there is also pale ol patches within cc-Carb...(eg 40.64 m). TS | | | 22.00 | 515 |
| | | | | | | | 23.00 | 420 |
| | | | | small concentrated patches-bands of dk p-blk fl ± bio. rare! eg 35.74 m and 37.68 m. fl (trace). | | | 24.00 | 335 |
| | | | | | | | 25.00 | 350 |
| | | | | 42.62 to 43.34 m - brc dol-Carb dyke with abnt mnz vnlt and patches - honey y-br-gy (mnz ~3.2% TREO). rare fl clsts within as well 800 CPS (~3.2% TREO on XRF, with Nb 18.9K ppm!) | brc dol-Carb dyke | ~46.5 to 48m skeletal | 26.00 | 365 |
| | | | | ~46.5 to 48 m - distinct skeletal text - seems to occur when abnt gr-gy vnlt (dol-Carb) are concentrated in a specific area of cc-Carb. | | | 27.00 | 280 |
| | | | | | | | 28.00 | 250 |
| | | | | | | | 29.00 | 285 |
| | | | | ~48.95 to 50.50 m - v.f.g. dk ol-gy to gr-gy dyke? that gradually transitions from v.f.g. homo, mass dol-Carb into lighter gr-gy with cc gradually becoming itsl first, and then as itsl + patches, then to cc-Carb bnds, and gradually back into v.f.g. homo mass pale ol dol-Carb. | | | 30.00 | 250 |
| | | | | | | | 31.00 | 215 |
| | | | | 54.40 to 54.88 m - v.f.g. gr-gy to pale ol, homo, faintly mottled dol-Carb bnd sharp ctcs. | | | 32.00 | 315 |
| | | | | | | | 33.00 | 265 |
| | | | | 44.00 to 66.70 - pk cc seems to display wk bndg ~67° TCA (±5°). | | | 34.00 | 300 |
| | | | | interval ends because of gradual transition into dol-Carb. | | | 35.00 | 375 |
| | | | | | | 36.00 | 400 | |
| | | | | | | 37.00 | 340 | |
| | | | | | | 38.00 | 325 | |
| 66.70 | 74.40 | | | <u>dol-Carb</u> v. hetero interval, but in general almost entirely dol-Carb. | | | 39.00 | 410 |
| | | | | | | hetero | 40.00 | 470 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|-------------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 66.70 to 68.47 m - v.f.g.-f.g. pk-gy to pale y-og to y-gy to pale r, mottled, brc-psd-brc, xtl n dol-Carb with common mafic vnlt and clsts (euh-ang), dk b-gy, slightly magnetic. seems to be v.v.f.g mag diss within other carbonates. | | brc psd-brc | 41.00 | 405 |
| | | | | few open vugs in this portion, as well as pale y chalky infill on some open faces. smells like rotten eggs = sulpher. few patches/vnlts/vug infill of pale y-og-peach carbonate min (rhodochrosite? siderite?). few qtz patches abnt vnlt with v.f.g. diss sul. last 10 cm has pale r-gy hue to it, has v.f.g. pale og colour min diss throughout Carb (REflc?). | | open vugs | 42.00 | 525 |
| | | | | 68.47 to 73.50 m - v.f.g.-f.g. med dk gy-light gy with ol gy patches, brc-locly strly brc with abnt mica-rich (bio/phl) vnlt and diffuse bnds, and large clsts (up to 2 cm) abnt dol-Carb clsts, pale y-gy v.f.g., ang-rnd, up to 3 cm. sparse silicious WR clsts, br-gy. trace REflc fl mnz diss throughout. at 73.00 m ~6cm clst of mod og-pk carbonate min (rhodochrosite? - str HCL rxn). 72.15 to 72.27 m, 73.27 to 73.50 m - core v. broken up = FZ. few late dol-Carb dykes (v.f.g., pale ol-br) - itsl cc throughout section from 69.13 to ~70.00m, psd-brc dol-Carb w-gy unit with common diss REflc in beginning + gradually dying out. (mnz trace fl trace) | fault - 72.15 to 72.27 m fault - 73.27 to 73.50m | brc | 43.00 | 800 |
| | | | | 73.50 to 74.40 m - cc-Carb, same as described in previous interval. (CPS ~ 300 though). | | | 44.00 | 550 |
| | | | | interval ends because of litho change and text change (hetero to mass/homo). | | | 45.00 | 525 |
| | | | | modal mineralogy - dol-Carb 80%; cc-Carb 12%; mag trace; bio 5%; sul trace; rhodochrosite trace; REflc trace; qtz 3-4% . | | | 46.00 | 1100 |
| | | | | avg CPS over interval 275. | | | 47.00 | 850 |
| 74.40 | 168.00 | | | <u>qtz bio dol-Carb</u> | | psd - brc | 48.00 | 1050 |
| | | | | | | | 49.00 | 925 |
| | | | | | | | 51.00 | 475 |
| | | | | | | | 52.00 | 700 |
| | | | | | | | 53.00 | 600 |
| | | | | | | | 54.00 | 560 |
| | | | | | | | 55.00 | 875 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---------------------------------------|----------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | v.f.g.-f.g. pale ol-lt gy-med lt gy psd-brc with localized brcd patches. overall xtn and fairly mass. abnt mafic-rich vnlt and diffuse bnds (mica-rich bio?) and a few stylolites that rim dol clsts (f.g. to v.f.g, cr-w, rnd-sub ang). few pale r bnds that just have v.f.g diss REflc (looks like a variation of "B-zone") within Carb. interval displays wk bndg locly. within the concentrated biotite bnds and vnlt, often trace itsl cc throughout. sparse v.f.g. pale ol, homo later stage dol-Carb dykes (at varying angles TCA). sparse qtz clsts and vnlt within Carb milky-w to dk blk-br (WR?), transparent. in local sections, dol-Carb seems to be harder than normal - v.v.f.g diss sul throughout. | | | 56.00 | 550 |
| | | | | modal mineralogy - dol-Carb (+other carbonates) 85%; bio 7-10%; qtz 5%; REflc trace; sul trace; cc trace; ilm mnz fl trace. | | | 57.00 | 580 |
| | | | | | | | 58.00 | 575 |
| | | | | 74.40 to 74.82 m - f.g. gr-gy pale ol brc dol-Carb dyke with cr-y ang-rnd v.f. dol-Carb clsts. common b-gy patches (ilm? ±qtz ±bio) trace pk-pale r min (carbonate variety). common blk, met, v.v.f.g. min diss throughout (ilm?). | | | 59.00 | 600 |
| | | | | | | | 61.00 | 625 |
| | | | | @74.85 m - first appearance of diss REflc (bsn-prs) in trace amounts. REflc distribution is v. inconsistent throughout, but commonly more concentrated in bnds. tiny open micro-vugs from 74.85 to 75.34 m, in which REflc sparsely occupies. | bsn?-prs? | | 62.00 | 590 |
| | | | | 76.00 to ~113.00 m - CPS between 190-240. | | | 63.00 | 610 |
| | | | | @76.23 m - first appearance of WR? clsts-siliceous br-blk colour, and almost always rimmed by vnlt. these reoccur throughout often in clusters and bio stringers often stem from these. | | | 64.00 | 400 |
| | | | | | | | 65.00 | 450 |
| | | | | @79.65 m - cluster of WR clsts with x-cut REflc (bsn? prs?) vnlt and patches. (proved mineralization occurred later stage.) | | psd-brc-brc portions | 66.00 | 425 |
| | | | | | | | 75.00 | 240 |
| | | | | 81.06 to 81.10 m, 81.29 to 81.35 m, 81.44 to 81.46 m - late stage Carb dykes (±REflc) all x-cut between 56°-65° TCA. | late dykes x-cut between 56°-65° TCA. | | 76.00 | 235 |
| | | | | | | | 84.00 | 190 |
| | | | | 83.60 m - few dk gr-gy clsts/patches, v.v.f.g., dull, soft, chl? - reoccur sparsely throughout. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>85.62 to 86.67 m - REflc-rich band with gradational ctcs and trends from fairly mass-brc. bsn-prs?</p> <p>89.00m - first appearance of itsl cc in bio qtz patch often bio stringers stem off from these patches. brc portions (eg 91.28 to ~95.00m - with psd-brc sections) is mtx-sup with cr-w <1cm avg v.f.g. dol clsts and abnt x-cut bio vnlt. sparse ap? bnds throughout (w UV response). trace fl diss. these reoccur throughout.</p> <p>~102.20 to 112.79 m - in general, all of the bio vnlt. are ~parallel TCA.</p> <p>105.24 to 106.19 m - abnt f.g. blk "speckles" throughout dol-Carb - appear to be bio ± wthrd sul - reoccur throughout in sections - no overprinting texture, fairly mass .</p> <p>106.23 to 106.45 m - v.f.g. discontinuous pale ol-gr-gy to lt ol-gy dol-Carb bnd, moderately sharp ctcs, but Carb is v. mottled - CPS up to 275 (v. rare - trace euh blk v.v.f.g. min - pych?).</p> <p>109.11 to 109.75 m - diffuse bnd (v. vague ctcs) of pale gr-gy dol-Carb with few fl clsts and vnlt bnds with REflc associated with fl occurrence. (REflc and fl).</p> <p>some of mm sized bio vnlt/stringers have sawtooth pattern to them, and these often occur in more homo sections - stylolites!</p> <p>~113.45 to 116.60 m - dol-Carb has a y hue to it (compositional variation? - sporadic UV response (w), ap? (influence), y variety of Carb reoccurs. trace honey y-br min within (mnz?). after this y variety, Carb generally gets dkr and has slight ol hue to it.</p> <p>~113 to ~168 m - CPS between 200-250.</p> <p>129.24 to 131.80 m - light y-gy, to opaque cloudy w psd-brc with milky-w dol clsts, mtx-sup, v. faintly bnded with abnt honey y-br min diss throughout (mnz?) XRF: < 1% TREO, but Ce 1494 ppm La:Nd 2:1.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 168.00 | 275.61 | | | <p>133.76 to 140.20 m - (this reoccurs more frequently down hole), a new texture appears. v.f.g.-f.g. y-gy to lt ol-gy dol-Carb with abnt bio stringers-patches and vnlt with itsl cc ± qtz clsts, often surrounding larger y dol clsts (cr-y, unmineralized). bio vnlt create diffuse bnds that "flow"/"swirl" through dol-Carb. same mineralogy, just different texture.</p> <p>143.85 to 144.42 m - (~0.5 cm) common sul pockets.</p> <p>154.91 to 155.26 m - large "clsts" of brc WR? with abnt bio vnlt and few large dol-Carb clsts up to 4 cm and f.g. diss sul. whole section rimmed by bio. also occurs at 154.14 to 154.28 m - more downhole.</p> <p>~156.00 to 168.00 m - all the brcd and "swirled"/"flowing" dol-Carb as described above. hetero texts.</p> <p>interval ends because increased abundance of REflc and appearance of locld str bndg. i.e. "BD-zone transition".</p> <p>over this interval was consistently "dead" for CPS, and mineralogy consistent throughout (rare locl changes) - texts/text intensity was only consistent aspect changing.</p> <p><u>micaceous REflc dolomitic Carb (transition into B-zone)</u></p> <p>v.f.g.-c.g. medium gy-gr-gy to med lt gy brc dol-Carb with locly mass sections, xtl overall with abnt bio ± sul vnlt, swirls, stringers and patches. itsl cc throughout (most commonly in association with bio). strength of brc varies locly from none-str (always mtx-sup though). few qtz clsts/vnlt (milky-w, transparent). overall interval displays wk-str bndg, depends locly. common diss REflc (bsn? prs?) diss throughout and concentrated within bnds - often with gradational ctcs (overprint?). trace fl mnz ap sporadically distributed throughout. rare v.f.g. pale ol-gr late Carb dykes (sharp ctcs).</p> <p>modal minearlogy - dol-Carb (+other carbonates) 70%; mica (bio and/or phl) 10%; sul trace; qtz 3-5%; REflc 15-17%; fl mnz? chl all trace.</p> | | | 200-250 | 200-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>177.72 to 177.80 m - dol-Carb bnd/dyke (~ perpendicular TCA) that is REflc-rich (bsn? prs?) with two v.f.g. <1 cm pale ol homo bnds within. (two separate events? same event? - compositional variation in fluids?).</p> <p>note - bio ± sul stringers sometimes have vague 'sawtooth' pattern to it - stylonites?</p> <p>~168 to ~182 m - CPS 175-275.</p> <p>throughout interval there is abnt dk gy, dull diffuse patches bnds vns. they are v.f.g. but they seem to be dominantly dol-Carb + diss qtz bio ± sul.</p> <p>182.17 m - v.f.g. REflc bnd with later (?) opaque w dol vn impregnated by qtz - reoccurs throughout these REflc bnds.</p> <p>aside: rare fl clsts +diss patches always occur in association with REflc.</p> <p>182.29 to 182.66 m - gr-pale ol late dol-Carb dyke looks "layered". streaks of dkr gr and REflc throughout - compositional variations? or multiple influx of fluid taking same path? - reoccurs throughout.</p> <p>~182 to ~218 m - CPS 225-350.</p> <p>184.38 m - ~1.5 cm clst that is ~half qtz and ~half dol-Carb (± diss qtz?) , all rimmed by bio with a bio stringer x-cut (separating two lithos). within qtz section, <1 mm dol-Carb speckles within.</p> <p>191.32 to 192.37 m - mass, homo section of dol-Carb and REflc. v. diffuse colour changes, looks sort of like a "bruise" - this reoccurs throughout, + diss REflc gives off a peach-gy colour.</p> <p>194.22 to 194.63 m - dk gy-blk brc bnd with abnt qtz clsts (<1 cm), abnt diss mica in patches-clsts and rimming entire bnd (bio? phl?). itsl cc throughout entire bnd, trace f.g.-c.g. sul (py) diss. trace og-y elongate "needly" clusters, mnz? niobium rt?</p> | <p>dyke? perpendicular TCA</p> <p>brc-psd-brc</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@~198.00 m - first appearance of str bndg at ~25° TCA, continues for a while and remains at shallow angles TCA.</p> <p>@200.82 m - fl REflc dol bnds at ~24° TCA, a ~1.5 cm pale y-ol v.f.g. late dyke x-cuts everthing at ~59° TCA.</p> <p>205.63 to 207.34 m - str bndg at ~30° TCA.</p> <p>in general, at this stage in interval, REflc is becoming much more dominant and bndg is much more frequent and str.</p> <p>@~212.55 to 212.90 m - many broken pieces of core and ~19 cm of core loss, fault?</p> <p>218.48 to ~22.00 m - bio vnlt/bnds ~parallel TCA (<10° TCA).</p> <p>~221 to ~275 m - CPS 250-375.</p> <p>221.06 to 221.12 m - qtz bio cc sul clst has bio and dol bnds wrapping around it with a dextral orientation. (hand drawn picture of horizontally bnded "eye" shape clst here with force to the right above and to the left below). note: other clsts that have this "wrapping" affect do not have as obvious orientation to them - dont know if it is an actual metamorphic product or just coincidence (ie. fluids did not penetrate with force. clsts throughout but common from 214.13 to 228.00 m, and REflc in this section only exists in trace amounts.)</p> <p>238.66 to 267.83 m - increased adundance of brittle dfmd(?) increased stylolites and healed fracs often outlining clsts and x-cut core at random orientation. (and in later locl sections) stylolites filled with mica (bio? ± phl? ±sul?) accompanied with this is a general increase in gy-milky-w rnd-sub-ang dol-Carb clsts and slightly strer brc text.</p> <p>242.77 to 242.93 m - pure qtz vn (2 cm wide) x-cut at ~18° TCA.</p> | <p>bndg @ ~25° TCA</p> <p>216.34 m -bndg ~28° TCA</p> <p>223.55 m bndg ~24° TCA</p> <p>228.00 to 231.40 m bndg ~parallel TCA</p> <p>231.50 to 235.00 m bndg ~21° TCA</p> <p>250.63 m bndg ~28° TCA (diffuse fl bnd)</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 252.00 to 252.60 m - core is shred (?) in half ~parallel TCA. (some sul and mica flakes look shrd through dol-Carb, but some euh sul present look (unphased). | 254.50 m bndg @~16° TCA | | | |
| | | | | 257.30 to 257.37 m - oddly textd late(?) dol Reflc band. mins look "smeared" through bnd with few dol clsts elongate and micaceous stylolites rimming and x-cut. | | | | |
| | | | | 260.30 to 260.60 m - stylolite patch? abnt phl and/or bio zig-zagging through Carb (squiggle pattern) with rare-common bsn-prs patches associated. | | | | |
| | | | | 262.18-262.38 m - pale ol v.f.g. late dol dyke with smeared mica + REflc throughout. (in same orientation to bnd). | | | | |
| | | | | 256.50 to 275.61 m - in general bndg is absent except for a few locl sections.(REflc) | | brc | | 250-375 |
| | | | | @264.67 m - chl? patch - soft v.f.g., dull blk-gr, reoccur in vnlt/healed fracd portions. | 273.70 m bndg ~31° TCA | brc | | 250-375 |
| | | | | 274.74 to 275.13 m - v.f.g. lt gr-gy v.f.g. dol-Carb bnd, fairly homo with rare mica flicks and diffuse inconsistent bnds and REflc. | | | | |
| | | | | interval ends because of increased fl abundance and and increased/more abnt appearance of str bndg. | 274.30 m bndg@~45° TCA | | | |
| 275.61 | 385.36 | | | <u>REflc ap fl dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|----------------|-----------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v.f.g.-m.g. v. lt gy-lt gy-y-gy-pale r xtl, multiple text displayed throughout interval, however brc, psd-brc, wkly-str bnded are the dominating ones. brc is always mtx-sup. hetero overall. abnt REflc bnds vnlt clsts patches. abnt micaceous (phl and/or bio) bnds - strolites stringers. common qtz vnlt and clsts and v.f.g. diss within dk gy, dull, diffuse bnds (and dol ± bio ± sul) and patches. trace itsl cc often associated with larger bio vns and patches. rare sul pockets and diss throughout. common lt y-gy ap(?) bnds and patchs (b-w UV response).</p> <p>modal mineralogy - dol-Carb (+ other carbonates) 75%; REflc 5%; fl 10-12%; mica (phl ± bio) trace; qtz trace; ap 8-10%; sul trace.</p> <p>sparse-common v.f.g. pale ol-gr-gy late dol-Carb dykes-bnds.</p> <p>275.61 to 297.06 m - v. strly bnded dol-Carb with y-gy to v. lt gy dol-Carb, REflc, and fl bands. rare micaceous stringers and late pale ol dol carb dykes. common w to cr-w dol clsts (ang-rnd), giving a psd-brc look, 3-4 mm avg in this section, there is abnt y bnds, especially in the beginning, that have a b-w UV response - ap-rich bnds? fl abundance drastically decreases after 297.06 m. aside: dk gy-b patches/bnds are mainly dol and v.f.g. qtz and diss mica ± sul.</p> <p>297.74 to 298.39 m - strly brcd mtx-sup dol-Carb bnd with v. lt gy rnd-ang clsts, up to 3cm wide. v.f.g. qtz dol mica vnlt rimming dol clsts, trace REflc diss and a few late dol-Carb bnds x-cut at ~40°-50° TCA.</p> <p>rare sul pockets and vnlt throughout (eg. 301.00 m).</p> <p>@~302.84 m - vague diffuse ap and dol qtz bio bnd, being cut by bio ± sul vnlt/stringers. these stringers and several others throughout look like healed frac and like they have had some brittle influence.</p> <p>non brc portions of dol-Carb are homo and mass, generally f.g. faintly mottled (?). these sections are usually 2-3 m but often shorter e.g. 308.33 to 310.76 m.</p> | bndg @~44° TCA | str bnded and psd-brc | | |

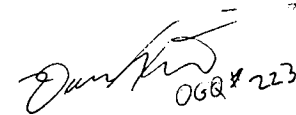
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 311.00 to 311.57 m - core is fractured along dk blk-gr surface (vnlt?) v.f.g. mica (bio and/or phl) chl-sul. sul look "shred" across surface, but some c.g. euh py remains unphased. shr? | shr | | | |
| | | | | 311.76 m and onwards - fl patches-bnds become common again. often within these fl patches/bnds are c.g. dol (clsts? pblc?) a few mm avg but up to 3 cm. | 323.90 m bndg ~27° TCA | | | |
| | | | | 328.72 to 328.76 m - looks like it was an open vug infilled with bio and/or phl and sul (f.g. - v.c.g.). metasomatism influence? | 326.00 m bndg ~34° TCA | | | |
| | | | | 330.16 to 339.50 m - fl patches display healed frac (brittle frac?) infilled with pure fl. some of these frac exist in dol-Carb as well, but zig-zag (stylolite?) through Carb (still fl filled). often in random orientation so it may be not be due to differential stress... | 338.44 m bndg ~22° TCA | | | |
| | | | | ap? bnds (b-w UV response) remain persistent throughout interval, and more commonly within fl-rich units. | 340.30 m bndg ~48° TCA | | | |
| | | | | 346.16 to 346.31 m - v.f.g. gr-gy to pale ol bnd with few mafic stringers and rare dol clsts. psd-brc? gradational ctc to surrounding dol-Carb. | | | | |
| | | | | 353.29 to 353.35 m - lates dol-Carb dyke, gr-gy with bio vns and rims. the margins of the dyke are diffuse, as bio penetrates outwards in between clsts. ~1 cm brc clast (lighter y) within v.f.g. gr-gy Carb. | | | | |
| | | | | 357.91 to 359.16 m - core is fracd along what appears to be a chl bio sul vnlt. no structural indications to a shr zone or fault. soft minerals probably gave away under drilling pressure. small local patches of broken up core between 357.91 and 360.58 m, but no core loss also encourages this. | 357.10 m bndg @ 35° TCA | | | |
| | | | | ~359.9 to end - "Carb" looks unusually y, v. str and abnt b-w UV response, highly enriched in ap? (fl + REflc) . | | | | |
| | | | | XRF in fl-REflc enriched zones were tested randomly and all 5 tests indicated ~1-1.5% TREO, La:Nb 2:1. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---------------------------|----------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 385.36 | 494.44 | | | <p>interval ends because of distinct change in texture and mineralization.</p> <p>~275 to ~385 m - CPS 250-375.</p> <p><u>micaceous ap qtz dol-Carb</u></p> <p>v.f.g-m.g y-gy to lt gr-gy to v. lt gy to lt gy mtx-sup brc dol-Carb with abnt siliceous clsts (mostly f.g. qtz ± dol ± mica) that have med gy diffuse bnds wrapping around these clsts (qtz ± mica ± sul). abnt micaceous patches clsts vnlt bnds stringers (phl and/or bio) with common c.g. sul and itsl cc throughout. the <1 cm bnds wrapping around the clsts looks like they "flowed" through Carb (hydrothermal influence) slowly, and some of the clsts may have rotated orientation during this because some bnds/stringers stem from these clsts to give clues to its direction of movement. common v.f.g. late dol-Carb dykes, pale ol. note: often qtz clsts rimmed by bio(?). is this core fennitized?</p> <p>modal mineralogy - dol-Carb (+ other carbonates) 65%; qtz 15%; mica (phl and/or bio) 10%; sul trace; fl trace; ap? 10%; REflc trace.</p> <p>large dol-Carb clsts that have this same affect. clsts are cr-w, mass, homo, and up to 8 cm. note: core looks like dol-Carb is contributing to this wrapping affect, but contrast between micaceous bnds cutting through Carb shouldn't be mistaken. just mica is wrapping!</p> <p>in med gy portion of Carb, v.f.g diss qtz causes this.</p> <p>diffuse wrapping bnds are generally cutting parallel TCA, but at a maximum of ~30° TCA (rare).</p> <p>388.01 to 390.49 m - v.f.g.-f.g. psd-brc? y-gy-med lt gy Carb with diss mica (phl and/or bio) and sparse vnlt all cutting ~parallel TCA. few siliceous clsts. within dol is trace dk r-br-y min diss throughout. wthrd sul? mnz?</p> <p>str of brc varies loclly, overall str though.</p> | <p>bndg ~parallel TCA</p> | <p>brc</p> <p>brc</p> <p>brc</p> | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------|---------|-----------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>394.37 to 395.26 m - brc bnd x-cut with mod-sharp ctcs, still common vnits "flowing" through carb, v.f.g. x-cut pale ol dol-Carb dykes. at 395.10 m 11 cm clst-sup brc bnd with qtz, dol, mica clsts in dol-Carb gdmass - abnt c.g. sul and one dol vn (4mm) x-cut everything. clst-sup brc bnd has diffuse ctcs.</p> <p>@399.50 m - qtz clast has ~0.5 cm bio? and/or phl? rim around entire clst. product of fennitization? reoccurs sporadically, although almost all qtz clsts have at least ~1 mm bio? rim around them.</p> <p>403.25 to 405.69 m - trace fl and REflc diss in patches and diffuse bnds and rare clsts. sparsly reoccur throughout.</p> <p>~385 to ~408 m - CPS 300-325.</p> <p>408.84 to 413.41 m - Carb is distinctly more y-gr. this section has v. str b-w UV response (ap-rich). section patches like this occur throughout interval. in general, these sections are psd-brc with speckled mica and sul throughout. sparse vnits. XRF: ~1% TREO, La:Nb 2:1.</p> <p>~413 to ~454 m - CPS 350.</p> <p>414.50 to 415.00 m - medium gy bnd of v.f.g. dol-Carb with v.v.f.g. diss qtz and mica and sul and rare fl sharp ctcs. these reoccur in patches throughout.</p> <p>417.30 to 417.45 m - zoned(?) diffuse clst of dol-Carb and qtz, with diss fl. perhaps just compositional variation within Carb?</p> <p>few siliceous clsts (beginning at 420.25m) have br hue to them WR clsts? reoccur downhole.</p> <p>425.62 to 426.29 m - one large bnd and few small blebs-patches of diss REflc within gr-gy dol-Carb. REflc.</p> <p>431.75 to 431.80 m - within v.f.g. gr-gy to pale ol dol-Carb bnd is a v. lt pk cc bleb with abnt bio(?) rimming its boundaries almost entirely within cc is v.f.g. "beer-bottle br" needles. v.f.g. phl? rt?</p> | | | | |
| | | | | | bndg ~parallel TCA | | 408.84 to 413.41 m | 450 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---------------------------|----------------------------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>436.54 to 437.37 m - few lt peach-pk patches of cc. do not confuse with REflc because from 442.18-442.60m diffuse bnds of diss REflc with only itsl cc.</p> <p>434.95 to 459.00 m - core gets more distinctly y again (ap-rich), although sparse bnds/clsts exist throughout. bnds and clsts still exist beyond this.</p> <p>~454 to 494.44 m - CPS 250-300.</p> <p>454.50 to 454.70 m, 454.90 m to 455.50 m - almost entirely v.f.g. gr-gy to lt ol-gy dol-Carb dyke, with sparse bio(?) vnlt x-cut at same orientation (~32° TCA).</p> <p>~457.00 m - starting to see subtle bndg displayed throughout Carb, defined by mica vnlt and dol and qtz and bio ± sul patchs. some of mica vnlt stem from qtz clsts that often take "augen" shape, 0.5 cm max. (rare overall).</p> <p>460.00 to 494.44 m - qtz clsts seem to be becoming more abnt and in general, larger. being rimmed by bio, fennitization (?) process seems to be more pronounced. increased abundance in itsl cc is obvious as mica content increases around clsts and vnlt.</p> <p>461.00 to 461.06 m, 462.43 m to 462.56 m - v. lt pk cc clsts.</p> <p>469.65 to 471.05 m - gr-gy to lt ol gy fairly massive and homo dol-Carb bnd, rare mica (±qtz) patches and vnlt.</p> <p>472.95 to 473.94 m - cc band with qtz clsts and bio (?) vnlt clsts throughout dk b-gy colour.</p> <p>478.15 to ~481.33 m - band of med gr-gy psd-brc (?) of v.f.g. dol-Carb that gradually grades into cc-Carb bnd (or just significant increase in itsl cc too f.g. to tell).</p> <p>481.33 to 482.23 m - abnt rusted r-br sul. few stylolites within this area.</p> <p>494.32 m to end - v.f.g. lt ol-gy to pale ol dol-Carb bnd with abnt diss mag (2 mm max).</p> | | brc | | 250-300 |
| | | | | | @458.39m bndg ~58° TCA | "augen" shaped clsts | | |
| | | | | | @465.00 bndg ~41° TCA | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 494.44 | 512.98 | | | <p>interval ends because increased silica content and mica content and increased brc intensity.</p> <p><u>fennitized (?) dol-Carb</u> v.f.g.-c.g. w to v. lt gy to med gy to y-gy, xtln highly brcd dol-Carb. abnt diss f.g. qtz within med gy portions of Carb. abnt WR(?) clsts - dk gy-br mostly transparent; ang and v. hard, rimmed by mica (phl? and/or bio). common dol and qtz clsts rimmed by mica as well abnt dk br-gy-blk bnds that are dominantly mica with qtz clsts and small dol-Carb vnlt. dol-Carb and qtz clsts always rimmed by mica ± sul (2.3 mm thick layer) which rock looks like it went through fennitization process. abnt itsl cc and cc vnlt. in mica-rich sections bnds.</p> <p>modal mineralogy - dol-Carb 40%; qtz 20%; mica (phl and/or bio) 30%; sul trace; cc 10%.</p> <p>504.46 to 505.28 m - slicken side?, core broken in half and in little pieces, and mica looks oriented like it has been "shred", perhaps just a zone of slip.</p> <p>~494 to ~512 m - CPS 175-250.</p> <p style="text-align: center;">EOH</p> | | brc | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 539158.61 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 20, 2011 | Downhole Survey: Yes |
| Expl. Area: Beckling | Northing (m): 6312911.53 | Rig Type: Discovery I | Date Completed: Aug 22, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087796 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 193.85 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|------------------------|------------------|---|-----------|---------|---------------|-------------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 5.81 | OVB | | <u>Ovb</u> no core recovery | | | | |
| 5.81 | 87.72 | dol-Carb / Non-Carb | | <u>qtz bio brc of dol-Carb</u> v. hetero unit; this looks like a strong hydrothermal interaction of si-rich fluids with dol-Carb, thereby mostly brcg dol-Carb; dol-Carb occurs in minor sections not altd and is v.f.g. and of lt gy to y-gy (5Y 7/2) colour, in mass sections it can contain minor amounts of fl; mostly dol-Carb is strongly brcd in sub-ang clsts of various sizes up to 10 cm, the gdmass at the brc is med gy to med dk gy and contains often abnt bio and minor amounts of qtz and trace sul; this hydrothermal brcn is v. irregular in shape and degree, sometimes it looks like it is completely replacing dol-Carb, locly only a v. small amount of gdmass occurs between dol-Carb clsts in a narrow bnd; hydrothermal brcn comes along with a fairly high degree of dfmn as indicated by the schistosity of bio-rich hydrothermal bnds and the elongation of dol-Carb clsts; meanwhile there is no indication for a simultaneous movement during dfmn, since the dol-Carb clsts are dfmd in an eye-shaped manner (like Augen gneiss) and not a sigma-shaped manner. modal mineralogy: dol (+ other cbnts): 77-78%; bio: 15%; qtz/fsp?: 6%; fl: trace; sul: 1-2%. 5.81 m to 6.70 m - broken core, hardly affected by drilling, med dk gy, v.f.g. non-Carb, hard with gy streak → sul/qtz-rich? with few blebs/streaks of dol-Carb. | | | overall | 300-350 (locly up to 500 cps) |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 6.20 m to 12.05 m - v.f.g. to f.g. lt gy to y-gy dol-Carb with minor features of altn; minor fl diss in glassy p patches/bnds and as infillings of common brittle fracs that can be associated with qtz; altn occurs along a 50 cm bnd from 9.75 m-10.30 m and comprises a ol-gy to dk gy gdmass with minor bio (soft). overall 450-500 CPS. | | | | 450-500 |
| | | | | 12.05 m to 37.40 m - lt gy to y-gy v.f.g. dol-Carb is still the dominant litho, but larger bnds and patches of hydrothermal altn become more common; often these patches are bio-rich and mass (see 17.90-18.25 m) with some dol-Carb clsts, locally altn is strongly affected by fol with v. elongated dol-Carb clsts (almost layers) → see especially 21.60 m-23.00 m. overall 400-500 CPS. | | | overall | 400-500 |
| | | | | several hydrothermal? rxtld w dol patches with qtz and locally some fl, these patches also come along as irregular vug and cut the silica altn as visible at 15.55 m. | | | | |
| | | | | @18.10 m - isoclinal fold with fold axis perpendicular TCA and quite parallel to general fol. | | | | |
| | | | | 28.30 m to 28.80 m - 50 cm bnd with med lt gy v.f.g. dol-Carb and wk r due to v.f.g. diss REflc? | @20.40 m - fol 69° | | | |
| | | | | 30.95 m to 31.25 m - abnt broken clsts of med gy v.f.g. qtz-rich rock (hornfels?); between clsts there is dol-Carb mtx, that also break clsts. | @22.00 m - fol 82° | | | |
| | | | | the rest at the unit is pretty homo in its features, that is mostly dk gr-gy v.f.g. gdmass with abnt more or less elongated dol-Carb clsts of 2 mm-1 mm, in larger sections of dol-Carb one can't tell if it's a clst or a dyke, but it is assumed to be clsts, too; there is a significant fol defined by the bio-rich si gdmass and the elongation of the dol-Carb clsts. overall 300-350 CPS. | @47.20 m - fol 82° | overall | 300-350 | |
| | | | | 39.90 m to 40.10 m - v.f.g. ol-gy qtz-rich dyke of F-Carb with magmatic prtc text, grains show no deformational features → late event; in vicinity of dyke there are several ol-gy stringers, that brk dol-Carb, while the dol-Carb clsts show elongation. | @50.15 m - fol 80° | | | 600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-------------------------------------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 87.72 | 193.85 | cc-Carb / dol-Carb / Non-Carb | | <p>40.05 m to 40.40 m - med gy qtz-rich v.v.f.g. hornfels?, that might be brcd by dol-Carb shows also elongation by some stringers and has sharp Cl's to dol-Carb brc.</p> <p>41.90 m to 44.00 m - several mass qtz vug/patches of 6-12 cm.</p> <p>64.15 m to 72.75 m - highly dfmd (mylonitized?) with med dk gy and lt gy bnds due to degree of altn of dol-Carb? looks as if dol-Carb has been almost completely ground up and altd by si-rich fluid to itsl bio, several w dol bnds x-cut that are f.g. to m.g.; these might have been irregular clsts before and due to high dfmn during shrg? they dfmd in such a way that they now appear as vug/bnds in the core; could also be a migmatitic text with in situ melting of dol-Carb component and re-crystallizing in abnt dykes, since few of these bnds also show fl (see especially @72.50 m, 65.85 m) towards end of this interval the w bnds become cc, this is a gradational process, some bnds fizz in a minor way, some fizz highly with HCl → de-dolomitization? or slightly different conditions lead to cc xtln instead of dol xtln.</p> <p>80.20 m to 81.30 m - larger bnd of v. lt gy to cr v.f.g. dol-Carb with several patches of hydrothermal fl + dol + qtz, ctcs to brc are not really sharp → big clst?</p> <p>towards end of this unit the size of the dol-Carb clsts gets smaller and smaller, while the dfmn/elongation gets higher and higher until it results in a v.v.f.g. perfectly fol homo rock, that might be the result of a mylonitization process, that totally grinds up the hydrothermal brc.</p> <p><u>bio-rich dol cc Myl</u></p> | <p>@57.65 m - fol 76°</p> <p>@55.80 m - fol 70°</p> <p>@60.25 m - fol 71°</p> <p>@64.45 m - fol 81°</p> <p>@67.60 m - fol 62°</p> <p>@70.45 m - fol 65°</p> <p>@76.60 m - fol 67°</p> <p>@78.80 m - fol 75°</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mostly perfectly layered v.v.f.g. rock; med gy bnds ibd with med dk gy and dk gy and v. lt gy to lt gy bnds often in a mm-scale; the v.v.f.g. gdmass comprise abnt cc and often there are small isometric blebs of bio; in some sections cc has vanished, then dol is the primary carbonate; especially the dk gy bnds lack of cc and dol; locally some cc and qtz vns/bnds of v.f.g. to 1 cm are present, while the qtz vns x-cut the unit discordantly, the cc bnds are concordant; in fact the qtz vns are the only feature that x-cut the structure, everything else is concordant to layering; this unit is assumed to have been formed during a high pressure event with simultaneous shrg, that lead to mylonitization of most of the unit; the initial material was probably the hydrothermal brc of the last unit, that is also present in this unit in a section of ~20 m; in that scenario the lt gy to v. lt gy mm-bnds represent dfmd dol-Carb clsts with x-fold dfmnn, while the med dk to dk gy bnds probably represent the dfmd bnds of intensely hydrothermally altd bio-rich gdmass; this event must have been associated with a almost complete replacement of dol by cc while gmuling the rock up to the v.v.f.g. gdmass; this whole process is inferred by the gradational translation of the last unit to the present with gradational decrease in the size of dol-Carb clsts and the contemporary gradational increase in dfmn of these clsts; in the ctsc brcd section there are dol-Carb clsts that show sigma-clst structure and snowball-structures, that prove movement in a shr zone.</p> <p>modal mineralogy: cc: 45%; dol: 40%; bio: 10%; qtz: 3%; sul: 2%.</p> <p>96.75 m to 98.55 m - several mass py and qtz vns of up to 15 cm, py also occurs in gdmass as elongated grains.</p> <p>@ 114.00 m - 3 cm discordant cc vn and min bio and sul.</p> <p>@ 114.50 m - 5 cm discordant mass qtz vn.</p> | <p>@87.90 m - fol/mylonitization 72°</p> <p>@92.25 m - fol/mylonitization 79°</p> <p>@96.60 m - fol/mylonitization 68°</p> <p>@102.60 m - fol/mylonitization 65°</p> <p>@108.40 m - fol/mylonitization 55°</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>114.55 m to 114.90 m - dyke or clst? of mottled lt gy to y-gy dol-Carb with min altn features and no dfmn features, ctc to Myl are sharp.</p> <p>115.60 m to 116.00 m - interval with strangely altd v. lt gy dol-Carb, that seems to be intimately ibd/affected with/by Myl.</p> <p>@116.80 m - dol-Carb clsts become visible again, which is again a gradational process with slowly increasing clst size and decreasing dfmn.</p> <p>@117.05 m - the litho and text are much more hetero then in Myl; because of the mid dfmn/elongation of the structure it is not possible to distinguish between clsts and gdmass, but the colour and hardness reaction with HCE indicate abnt cc/dol bnds/clsts and minor to abnt bio/qtz-rich brc of the previous unit.</p> <p>@121.25 m - less dfmd dol-Carb clsts of several cm are common in a med gy-gr bio/chl and dol-rich gdmass, some clsts bare a dk colour with a hardness of ~5-6 and much higher dfmn/elongation than dol-Carb clsts (maybe hornfels and microsul?); dol-Carb clsts show often sigma-clst features and some even snowball-structure (see especially 128.55 m) this interval continues to 137.25 m.</p> <p>137.25 m to 138.80 m - med gy to dk gy v.v.f.g. homo rock without any carbonates, rock is soft → loaded with bio or clay minerals, strong smell of H2S often reaction with HCl and no Zn or Pb in XRF assay suggest organic sulfur rock is in several bnds brcd by similar dolomitic/siliceous gdmass as brc above the dk gy rock itself looks like the med gr to dk gy v. dfmd clsts in the brc above.</p> | <p>@112.70 m - fol/mylonitizati on 65°</p> <p>@117.25 m - fol/mylonitizati on 82°</p> <p>@127.20 m - fol/mylonitizati on 87°</p> <p>@130.20 m - fol/mylonitizati on 76°</p> | brc | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>new theory: this hole is drilled through the ctc of intrusive dol-Carb and a sedimentary unit,; by applying high stress this ctc behaves as a wk zone, where formational water intrudes; that might be equilibrated in a si-rich environment (some kind of WR); by brcg the dol-Carb in a high stress field, this fluid migrated in this zone and equilibrated with dol-Carb forming the bio, qtz-rich. gdmass and dissolving dol (most si-rich formation waters are Mg-depleted and cc-saturated with respect to dol); while the dol-Carb behaves competent forming all the sigma-clsts and snowball - texts, the adjacent sedimentary unit behaves plastically giving rise to a well evolved shr zone, that takes up most of the stress applied (as you can see by the sedimentary "clsts" in the hydrothermal brc, that are x-fold more dfmd than the dol-Carb clsts); meanwhile the CO2i-/cc saturated formation water percolates in this sedimentary shr zone and calcifies the sediment.</p> | | | | |
| | | | | <p>138.80 m to 147.50 m - med dk gy to med gy fairly homo calcareous rock with several cc lenses of 5-20 mm, locly text looks migmatitic with plastic dfm → partial melting of carbonetitic component?</p> | @141.90 m - fol 67° | | | |
| | | | | <p>147.50 m to 157.00 m - lt gy to gr siliceous gdmass with minor elongated med gy and med dk gy clsts, neither clsts nor gdmass has a high amount of carbonates.</p> | @154.55 m - fol/mylonitizati on 80° | | | |
| | | | | <p>157.00 m to 159.90 m - med gy v.v.f.g. dolomitic/siliceous? gdmass with minor to abnt med gy to med dk gy elongated non-Carb clsts (meta-sedimentary?).</p> | @159.20 m - fol/mylonitizati on 76° | | | |
| | | | | <p>159.90 m to 160.50 m - plastically dfmd/migmatitic? text with irregular lt ol-gy dol patches in med dk gy dol-rich gdmass</p> | | | | |
| | | | | <p>@161.10 m - 3 cm vn of qtz and dol with idiomorphic lucid almost transparent tlc xtls intergrown with trace phl.</p> | @164.80 m - fol/mylonitizati on 74° | | | |
| | | | | <p>161.60 m to 184.50 m - mostly v.well layered/fol Myl with abnt cc, med gy colour deminating with abnt med dk gy and dk gy layers of few mm ibd; in several sections isometric blebs of bio diss, do not seem to follow any structural/textural element; few w cc bnds ibd.</p> | @170.60 m - fol/mylonitizati on 74° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>176.95 m to 177.75 m - several bnds of mass med lt gy to y-gy dol-Carb with x-cut qtz vns.</p> <p>180.30 m to 181.25 m - visible minor to stongly dfmd clsts of 2-20 mm of med dk gy meta-sediment? in med gy calcareous/siliceous? gdmass.</p> <p>184.50m to 188.00 m - homo med dk gy v.v.f.g. rock with wk fol and migmatitic?/hydrothermal patches of w to cr cc; gdmass has also abnt cc.</p> <p>188.00 m to 193.85 m - med gy to med dk gy v.v.f.g. dolomitic gdmass with minor to abnt blebs and patches of lt gr-gy dol (Carb?), several qtz vns x-cut.</p> <p style="text-align: center;">EOH</p> | <p>@176.40 m - fol/mylonitizati on 71°</p> <p>@183.89 m - fol/mylonitizati on 60°</p> | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|--|
| Property: Eldor Property | Easting (m): 536414.54 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 23, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312580.66 | Rig Type: Zinex A5 | Date Completed: Sep 08, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: See first discription cell for drill date explanation. |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 225° | Core size: NQ | End of Hole: 619.96 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: P. Schmidt | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 5.50 | 81.56 | | | <p><i>Two start and end dates because of driller break. Drill periods: 23-Aug-11 to 24-Aug-11 and 1-Sept-11 to 8-Sept-11.</i></p> <p><u>cc-Carb</u></p> <p>unit consists dominantly of m.g. cc-Carb with pale pk (5RP 8/2) to y-gy (5Y 8/1) colour. various amounts of dk gr-gy (5GY 4/1) ~0.2 cm patches and dykes cutting forming skeletal text. those vnlets and dykes contain ~30-50% ap, ~20% dol, ~10% phl, 5-10% olv or replaced olv, pych (trace), → phoscorite? → causing high CPS. few f.g. thin up to cm size, y late stage Carb dykes cutting locly, trace sul. 250-1700 CPS, avg ~600 CPS.</p> <p>5.50 m to 7.27 m - all broken up and.</p> <p>7.27 m to 8.40 m - bldr, inbed or dyke of dol-Carb with psd-brc text and REflc mineralisation (BD type), ~5-10% gr amph in frac zones and in bnds.</p> <p>13 m to 15.77 m - high amount of dk gr-gy phoscorite? vnlets.</p> <p>21.53 m to 22.46 m - mix of phoscorite clsts? dol-Carb and cc-Carb → former FZ?</p> <p>24.26 m to 27.93 m - ibd of dol-Carb w (N9) to lt gy (N7) dol-Carb clsts? ~0.5 cm to 1 cm sub-rnded in a fl + REflc, ap (f.g), qtz? and dol-Carb (f.g.) gdmasss minor amph on frags and locly (@25 m) in bnds.</p> <p>32.90 m to 36 m - interval with high amount of phoscorite vnlets and dykes with a mass dyke from 31.32-31.65 m.</p> <p>38.75 m to 39.10 m - ~10 cm thick dfmd dyke.</p> | | | | 1600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 81.56 | 190.79 | - | | 40.20 m to 45.00 m - interval with high amount of phoscorite? vnlets and dykes, mass from 40.20 to 40.56 m → XRF indicates 0.9% Nb. | | | | 1700 |
| | | | | 47.96 m to 48.32 m - v.f.g. dol-Carb and aph gr and amph? | | | | |
| | | | | 49.33 m to 49.63 m - f.g. y dol-Carb with gradational ctc on both sides and as well the patches of phoscorite? | | | | |
| | | | | 52.50 m to 62.34 m - interval with high amount of phoscorite? (~30%). | | | | 1100 |
| | | | | 62.50 m to 71.32 m - high porosidy and fracs → FZ with loclly solved cc. | | | | |
| | | | | 72.24 m to 74.95 m - ibd or dol-Carb dyke f.g. dol and perv REflc with up to 1.5 cm phenos of dol-Carb, various amounts of f.g. ap. | | | | |
| | | | | 74.95 m to 81.56 m - gradational interval cc-Carb abnt at beginning (~20%) with ~80% dol (~60%) and phl (~35%) with minor mag grading into ~80-90% bio and 10-20% w dol-Carb vnlets → Glim last mag occurrence @~78.30 m. | | | | |
| | | | | end of unit due to change of mineralogy cc-Carb → dol-Carb. | | | | |
| | | | | <u>bio REflc dol-Carb</u> | | | | 200-300 |
| | | | | f.g. lt gy dol-Carb with various amounts of itsl bio and REflc. text varies from peppered to wk bnded to psd-brc. other mostly loclly abnt mins are fl, sul (trace), trace qtz and ap? itsl cc. top ~30 m of unit contains zones with abnt brcn and FZs, colour mostly lt gy (N9). | | | | |
| | | | | 81.56 m to 82.42 m - bnded psd-brc with ~0.5 cm euh dol phenos in bnds in a f.g. dol-Carb and REflc loclly with itsl fl, high amounts of REflc ~2%. | | | | |
| | | | | 82.42 m to 84 m - same mineralogy as above but all v.f.g., minor bio in fracs. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>84.60 m to 92.13 m - brc to psd-brc text, dol-Carb phenos and sub-rnded clsts of dol in a f.g. dol-Carb gdmass with diss REflc flakes (~1%) and diss and frac fillings bio flakes (~5%).</p> <p>92.13 m to 100.30 m - brcd zone, dol-Carb clsts (angular) - 0.5-5 cm, former brcn healed with bio (v. thin) → clsts-sup recent FZ with core loss from 97-99 m.</p> <p>100.30 m to 118.34 m - prepared text with small bio flakes, and trace REflc amount little bit increasing towards end.</p> <p>104.40-105.50 m - dyke? of bnded dol and REflc (BD zone) with minor cutting at a 30° angle TCA. pinching out @105.50 m.</p> <p>@107.45 m - ~2 cm late REflc dyke cutting with qtz ~3 mm in middle.</p> <p>117.04 m to 117.54 m - w clst-sup dol-Carb brc with dol-Carb (f.g.) and bio gdmass.</p> <p>118.34 m to 123.60 m - FZ with multiple events of brcn and a recent one with 11 cm core loss @119.18 m. dol-Carb clsts (clst-sup) angular 0.5 cm ~3 cm, bio gdmass (~8-10%).</p> <p>123.60 m to 130.02 m - psd-brc text w dol-Carb phenos in a f.g. w to lt gy dol-Carb gdmass with trace to locly up to 1% REflc, high micro porosity throughout.</p> <p>130.02 m to 133.76 m - bnded and brcd interval shows v. str irregular bndg → dfmd? of lt gy dol-Carb bio and fl (~5%) locly brcd and infilled with bio (clst-sup, ang), trace visible REflc, ~20% bio.</p> <p>133.76 m to 139.90 m - brc and psd-brc text with dol-Carb clsts and phenos with trace amounts of REflc and ~2-5% bio in gdmass with f.g. lt gy dol-Carb. @139.10 m - with fl blebs?</p> <p>139.90 m to 150.27 m - str bnded text all ~45° TCA, b fsp? clsts? with bio reaction rim occur.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>144.28 m to 144.50 m - ang up to 5 cm clsts of b f.g. hard min (fsp?) with bio reaction rim, itsl cc.</p> <p>@147.13 m - a 2 x 2 cm cc (secondary) patch with r-br platy tx Nb-rt? at outer rim and few r REflc flakes. XRF 5000 ppm Nb. 3300 ppm Y. high Ti and minor gal.</p> <p>147.38 m to 150.27 m - high content (~20%) of fsp? (f.g. b, hard) ang clsts with bio reaction rim, up to 6 cm in size, itsl cc.</p> <p>150.27 m to 152.56 m - brc. f.g. dol-Carb with diss bio and up to 10 cm fsp? (b, f.g.) clsts? with no sharp ctc but gradational suls abnt in clsts, late stage Carb dyke (2 cm) @152.25 m.</p> <p>152.56 m to 159.20 m - REflc and fl-rich interval with bnded to psd-brc text.</p> <p>153.27 m to 153.47 m - ibd? of fsp? and bio clst rich rock, itsl cc.</p> <p>155.75 m to 157.15 m - ~10-15% fl in a ~18 cm fl bleb bnd cutting core several times within interval.</p> <p>156.67 m to 156.86 m and 157.25 m to 157.50 m - psd-brc with ~0.5 cm dol-Carb phenos and bio (chl?), fl and REflc gdmass.</p> <p>158.27 m to 158.50 m - sul (py cubes) and fsp and bio bnds.</p> <p>@159.16 m - a 2 cm late stage Carb dyke cutting.</p> <p>164 m to 164.24 m - 3 up to 1.5 cm qtz vns cutting almost parallel TCA.</p> <p>165.68 m to 167.38 m - bnded psd-brc with dol-Carb phenos in a bio-rich (~10-15%) + dol-Carb gdmass, trace REflc, a 2 cm fl bleb bnd.</p> <p>164.24 m to 168 m - gradational upper ctc to a str bnded interval with REflc instead of bio. angle TCA = 25°-45° → flow bndg?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>168 m to 169.15 m - brcd? abnt (~5%) fsp? clsts and bio. itsl cc.</p> <p>169.15 m to 170.77 m - mod to str bnded with diss REflc defining bnds (locly minor fl).</p> <p>170.77 m to 171.63 m - psd-brc with ~5% bio and minor ~0.5 cm ang fsp? clsts, itsl cc.</p> <p>171.63 m to 173.71 m - bnded with REflc diss defining bnds, dol-Carb phenos? indicating psd-brc.</p> <p>173.71 m to 176 m - bnded psd-brc with ~15% fsp? and bio ang clsts, dol-Cab phenos (w) in a f.g. gy dol-Carb gdmass and trace REflc diss bnds define bndg.</p> <p>176 m to 178.73 m - wk to mod bnded ~50° angle TCA with locly various amounts of bio, fl and REflc all ~ trace.</p> <p>178.73 m to 180.38 m - zone with abnt late stage events (dykes and vns), a ~ 2 cm qtz and dol-Carb vn, several ~1.5 cm y late stage Carb dykes cutting, a f.g. REflc-rich vn cutting.</p> <p>180.88 m to 181.93 m - wk to mod bnded with diss REflc bnds defining it.</p> <p>181.93 m to 182.83 m - dyke? with few (mtx-sup) up to 2 cm ang w dol-Carb clsts.</p> <p>182.83 m to 190.79 - bnded psd-brc to brc with high content ~5% of bio and locly (188.60 m to 189.50 m) fsp? clsts with bio rim and itsl cc.</p> <p>end of unit because bio and fsp? are no longer rock forming mins and occur only on frac zones or as ibd, also slight increase in CPS.</p> | | | | |
| 190.79 | 268.75 | - | BD | <u>REflc dol-Carb</u> | | | | 300-400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>f.g. to m.g. w to lt gy dol-Carb, texts are dominantly bndg and psd-brc mostly as combination, bndg is visible due to diss REflc bnds and diss fl bnds. minerals in unit: carbonates as phenos and f.g. gdmass (~90% of unit), REflc mostly f.g. diss in trace amounts locly up to 2% of unit, fl in trace amounts often locly concentrated in diss bnds and blebs bnds, bio trace and usually only on frac and in ibd units, indicated by UV light is f.g. ap in diss bnds in trace amounts, suls, are trace, late stage Carb dykes are rare but when occur are v.f.g. and due to r colour contain REflcs, qtz locly abnt.</p> <p>190.79 m to 201.80 m - still relaively abnt bio but all in frac and healed frac, bndg 35° TCA.</p> <p>218.86 m to 219.06 m dyke? med gy due to high amount of micro-suls.</p> <p>@219.15 m - bndg @45° angle TCA.</p> <p>@231 m - 45° angle TCA.</p> <p>243.08 m to 244.31 m - ibd of bio (~30%), f.g. dol-Carb (~40%), f.g. alb? (~30%).</p> <p>253.80 m to 254.14 m - bio-rich bnded psd-brc zone (~20% bio).</p> <p>@252.90 m - a ~1 cm qtz (clear) patch.</p> <p>257.20 m to 257.42 m - v. abnt qtz and qtz vn (~30% of rock).</p> <p>261.22 m to 262 m - no REflc, psd-brc with y-gy dol? Carb gdmass.</p> <p>263.60 m to 268.50 m - transition zone? → ibd with no or only trace REflcs and v. high content of bio and b alb? mostly in clsts up to 20 cm (ang), big clsts are from 265.75-265.92 m, 267-267.17 m, 267.24-267.45 m, 267.59-267.83 m all with a ~0.5 cm bio reaction rim.</p> <p>end of unit due to major change in mineralogy (no more REflc but a y probably mnz?-rich gdmass.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 268.75 | 457.90 | | | <p><u>fl (mnz?) dol-Carb</u></p> <p>texts vary in this unit from patchy brc, to psd-brc and bnded and most common combinations of all three. dol-Carb occurs in w clsts or phenos in a f.g. It gy to y-gy dol-Carb gdmass, ratio varies also clst/pheno size but averages ~0.5 cm, within gdmass perv y mnz? is common but quantities are difficult to determine. fl is beside f.g. carbonates the main gdmass min and can be locky up to 20% often with itsl r-br mnz? chl and b-gr amph are trace then often in patches and clusters dk gy f.g. bnds across core indicate high amounts of REE, Nb and Y mineralization → XRF → up to 1% Nb. XRF indicates overall high REE content up to 5% locky avg ~2+%.</p> <p>269.93 m to 270.23 m - ibd? with perv fl with itsl ~2% REflc blebs all cut by late crack healing fl vns ~0.1 cm.</p> <p>270.23 m to 271.10 m - wk bnded psd-brc with y-gy dol-Carb and mnz? indicating it, bndg ~5-10° TCA.</p> <p>271.10 m to 272.23 m - mottled text with abnt late y Carb dykes and few fl bleb patches, few gy micro-sul bnds cutting.</p> <p>272.73 m to 273.94 m - bnded with a ~3 cm zoned late stage Carb dyke cutting y-gy at the outside and dk gr-gy at the inside (each 1/3).</p> <p>273.94 m to 274.32 m - patchy/brcd to mottled, w ang dol-Carb clsts in a gy micro-sul dol and mnz? gdmass.</p> <p>274.32 m to 275.28 m - patchy/brc w ang dol-Carb clsts in a f.g. y gy dol and mnz? gdmass, patchy appearance due to locky concentrated y-gy gdmass and patches of diss fl, secondary fl in healed cracks.</p> <p>275.28 m to 275.63 m - mass to brc ~90% f.g. med gy dol-Carb and micro-sul? with ~10% w dol-Carb clsts.</p> <p>275.63 m to 277.57 m - bnded/brc 40° TCA, w ang to sub-rnded dol-Carb clsts in a f.g. y-gy dol-Carb and mnz? gdmass, bndg defined due to minor fl bnds and more common gr chl? and micro-sul? stringers.</p> | | | | 300-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>277.57 m to 278.09 m - mottled high amount of bndg and perv micro-suls, few fl bleb patches.</p> <p>278.09 m to 281.09 m - bnded brc 40° angle TCA, bndg defined due to chl?, fl, and micro-sul stringers. @280.87 m - bnd with unknown br mins with XRF indicating high Nb (up to 0.8 ppm) and micro-suls.</p> <p>281.09 m to 281.71 m - micro-suls-rich psd-brc with y-gy Carb clsts?</p> <p>281.71 m to 285.94 m - bnded brc wk bnded ~40° TCA. 283.58 m to 287.07 m - perv fl-rich gdmass.</p> <p>285.94 m to 292.12 m - patchy to mottled text (especially fl patches (diss and blebs). fl blebs have itsl r-br mnz? XRF up to 6% REflc). @286.50 m - a 15 cm late stage dyke with a 6 cm brc ibd (mtx-sup).</p> <p>294.46 m to 295 m - high content of micro-sul and XRF indicates high Nb → 0.6%.</p> <p>292.12 m to 308.23 m - bnded psd-brc fl-rich interval (~15% with itsl r-br mnz in fl blebs and patches but non in late crack healing fl sometimes with qtz, while dol-Carb clsts? and/or phenos in a lt gy f.g. gdmass instead of the usual y-gy.</p> <p>308.23 m to 313.67 m - wk bnded ~90% v.f.g. med gy to y-gy dol-Carb and micro-sul and mnz? gdmass with few ~5% fl and mnz? blebs and ~5% w dol-Carb clsts?</p> <p>313.57 m to 317.60 m - patchy to mottled with high content of gy micro-sul in gdmass with XRF indicating high Nb ~0.5% (@316.40 m), low fl, gr chl and/or amph mostly in stringers and patches.</p> <p>317.60 m to 323.27 m - patchy to mottled with less (no?) micro-sul in gdmass, gr and/or amph mostly in stringers. @322.50 m - a ~10 cm clst of fl + r-br REflc?, ~6-7% REE.</p> <p>323.27 m to 324.31 m - psd-brc/brc f.g. w to y-gy dol-Carb clsts (~30%) up to 0.5 cm in elongate lenses.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>324.31 m to 326.90 m - mottled micro-sul-rich gdmass, lot of stringers with amph and pych? → high Nb (XRF). @326.25 m to 326.53 m - bnd with aph and high Nb and fl with itsl REflc.</p> <p>326.90 m to 327.91 m - mottled irregular blebs and stringers of fl with REflc together ~3% of interval.</p> <p>327.91 m to 328.22 m - brc dol and y-gy dol-Carb gdmass clsts in a gr amph and unknown needley og min and minor mag? or micro-po → mag, clsts are still in place.</p> <p>328.22 m to 334.54 m - mottled to patchy with various but overall high amount of micro-sul indicated by gy stringers and patches in gdmass, ~1% fl some gr amph in patches, vnlets and stringers.</p> <p>334.54 m to 378.73 m - patchy. textbook B-zone with fl patches (diss and bleby). some amph stringers and patches. few ibd/dykes described below. XRF indicates 2+% REE.</p> <p>344.54 m to 345 m - brc. the B-zone is brcd by a amph-rich dol-Carb gdmass, clsts are poor sorted and all ang towards end (~8 cm) with ~0.5 cm clsts of different composition sub-rnded, mostly w dol-Carb and bio.</p> <p>346.24 m to 346.54 m - psd-brc dyke ap and amph (gr-b) and ukn og (REflc?) gdmass and lt gy dol-Carb sharp ctc at both ends.</p> <p>347.48 m to 347.56 m - psd-brc? sharp ctc both ends, w sub-ang dol-Carb and bio clsts.</p> <p>347.76 m to 348.53 m - stringers of gy micro-sul? and high Nb → XRF ~parallel TCA.</p> <p>356.15 m to 359.19 m - interval with several small brcn events and few dk gy micro-sul in gdmass and as stringers.</p> <p>371.62 m to 378.73 m - fl seems to have itsl r-br mnz?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>378.73 m to 380.94 m - f.g. wk bnded dol-Carb with abnt (~20%) ap blebs and layers? defining bndg. XRF indicates ~0.5% Y and Nd>La with total REE ~1.5%. no fl. 60% TCA.</p> <p>380.94 m to 381.69 m - typical patchy B-zone.</p> <p>381.69 m to 382.22 m - micro-sul?-rich → XRF ~0.6% Nb. interval with a 10 cm ap-rich dyke cutting similar to 378.73-380.94 m.</p> <p>382.22 m to 387 m - f.g. gy to pale ol, almost mass dol-Carb locly with y-gy dol-Carb clsts, also locly high micro-sul and Nb (XRF) etc. low fl.</p> <p>389.40 m to 389.65 m - brc ~2 cm sub-rnded clsts mostly ~95% dol-Carb with diss fl in a bio gdmass.</p> <p>389.65 m to 406.60 m - f.g. micro-sul-rich fl-poor interval, some spots with up to 10% y-gy dol-Carb clsts.</p> <p>406.60 m to 451.22 m - textbook B-zone.</p> <p>@415.89 m - ~2 cm patch of REflc with XRF indicating 9% REE → It enriched.</p> <p>417.84 m to 418.74 m - interval with high ~10% of b-gr amph.</p> <p>423.15 m to 442 m - gdmass more lt gy with only few y-gy stringers (mnz?). XRF indicates lower REE ~1.5%.</p> <p>442 m to 443.89 m - fl-rich (~20%) in patches and stringers. @443.60 m the fl was replaced by chl and p amph?, etc is sharp, text picture taken, also abnt suls (py) in chl patches so hydrothermal event was iron-rich?</p> <p>446.18 m to 448.09 m- seems gy, abnt micro-sul? in gdmass.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 457.90 | 496.27 | | | <p>448.09 m to 451.22 m - fl-rich (~20%) with itsl mnz? up to 5% REE with XRF.</p> <p>451.22 m to 457.90 m - mnz? and b-gr amph and p needley amph-rich interval (in frags but they are abnt) with v. high REE values indicated by XRF (7-9%) at br-gr patches.</p> <p>end of unit due to mineralogical change → almost no more fl.</p> <p><u>mnz? dol-Carb</u></p> <p>mass to wk patchy unit with f.g. lt gy dol-Carb and locky patches and stringers of y-gy mnz?, also locky micro-sul diss causing med gy colour. XRF indicates all over relatively high ~1.5% REE so diss mnz? in mass intervals is possible but not visible by eye.</p> <p>457.90 m to 469.33 m - wk patchy width relative high y-gy gdmass (~5-10%) and trace amph and fl blebs.</p> <p>469.33 m to 478.53 m - mass lt gy.</p> <p>478.53 m to 481.24 m - wk bnded due to few y mnz? and dol-Carb stringers with y-gy colour, 50° angle TCA.</p> <p>481.24 m to 481.76 m - ibd? bio-rich interval with a ~2 x 3 cm bio clst.</p> <p>481.76 m to 490.32 m - bnded (wk) with locky chl, bio and mnz?, and mnz? and dol-Carb (now more abnt in gdmass) bnds ~45° angle TCA.</p> <p>490.32 m to 492.65 m - str bnded due to ~8% diss fl blebs and diss fl bnds, minor micro-sul bnds, ~35° angle TCA.</p> <p>492.65 m to 496.27 m - wk bnded with y-gy mnz and dol?-Carb bnds and few micro-sul? (gy) bnds defining them.</p> | | | | 300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 496.27 | 619.96 | | | <p>end of unit due to main min change, now less (locly abnt) y-gy mnz? but r-br REflc and bio.</p> <p><u>bio REflc dol-Carb</u> this interval is hetero and mins and texts change within few meter but overall f.g. y-gy mnz? and dol-Carb decreases while r REflc and fl increase, bio occurs throughout but is often locly abnt in frac and high porosity as reaction rim around WR (alb?) clsts, micro-sul? bnds are v. common but indicate no elevated Nb, main texts are bnded, psd-brc and brc, beside suls ap seems common.</p> <p>496.27 m to 506.21 m - bnded with few sub-rnded hard y-br WR clsts locly (~1%) and bio rim all in a dol-Carb (f.g.) gdmass with stringers of y-gy mnz? angle TCA 35°-40°, abnt micro-sul bnds.</p> <p>506.21 m to 512.73 m - bnded beside bio now also itsl REflc also itsl in sub-rnded WR clsts, abnt micro-sul. REflc ~trace up to 1%. 35°-40° TCA. ibd of mass to wk bnded y-gy mnz? and dol-Carb @509.91-510.94 m.</p> <p>512.73 m to 517 m - patchy to wk bnded, micro-sul? patches and stringers in y-gy mnz? and dol-Carb gdmass with trace amounts of ang to sub-rnded WR clsts and bio reaction rim and bio infill in healed frac and as coating on recent frac, a 6 cm ap/Carb clst (sub-rnded)</p> <p>517 m to 522 m - patchy REflc flakes and blebs itsl in dol-Carb gdmass with some y-gy dol and mnz stringers, REflc = trace, some WR clsts with bio rim.</p> <p>522 m to 527.31 m bnded v. abnt y-gy mnz? and dol gdmass, minor fl and mnz stringers, few b-gr amph mostly in patches and healed frac, a 2 cm late stage Carb dyke cutting at end of sample.</p> <p>527.31 m to 531.46 m - bnded, brc/psd-brc partly rich in REflc and bio partly ap and mnz, clear ctc see also text pictures, abnt WR clsts ang with bio reaction rim, euh dol-Carb.</p> <p>531.46 m to 552.53 m - high porosity interval with bio completely replacing WR clsts and partly infilled by REflc also minor fl blebs. text varies patchy to bnded.</p> | | | | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>552.53 m to 557.72 m - relatively poor in REflc with some fl bleb patches and micro-sul? bnds.</p> <p>557.72 m to 589.98 m - bnded 40° TCA various amounts of diss REflc bnds and micro-sul? bnds @564.57 m a ~2cm rnded high porosity clst with bio, Carb (euh) and a silver gy met min. XRF indicates high Ti (~10) and Nb (~18%) so Nb rt is likely, REflc in this interval ~ trace to 1%.</p> <p>589.88 m to 591.66 m - bnded 40° TCA main min defining the bndg is fl in blebs ~8-10% of rock, trace diss REflc minor gy micro-sul? stringers cutting.</p> <p>591.66 m to 598.33 m - mottled abnt micro-sul? stringers and patches. patchy fl and fl blebs, itsl REflc and abnt brn occur, also bio bnds and WR clsts with bio rim, a fold @597.80 m, a y late stage Carb dyke cutting @598.75 m ~80% is w dol-Carb f.g.-m.g. overall REflcs are trace.</p> <p>598.33 m to 614 m - bnded/brc 35°-45° angle TCA. clsts ang to rnded consist of hard y WR? (alb?) with bio reaction? rim, size varies from 1 cm to 10 cm, bio also in bnds ~10-15% of rock locly with fl bleb bnds and diss REflcs carbonates are ~0.5 cm euh in f.g. Carb ~60-70% of rock. fl in blebs /bnds ~8%, REflc - trace.</p> <p>615.06 m to 619.96 m (EOH) - bnded ~40° TCA, ~30% are fl blebs in bnds indicating bndg with trace REflc, ~0.3 cm euh dol-Carb ~40%, ~30% f.g. dol-Carb.</p> <p style="text-align: center;">EOH</p> | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 535276.32 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 23, 2011 | Downhole Survey: Yes |
| Expl. Area: West Rim | Northing (m): 6312445.77 | Rig Type: Discovery I | Date Completed: Aug 30, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 1007883 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Not Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 245° | Core size: BTW | End of Hole: 241.71 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Knox | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|---|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 10.83 | OVB | | <u>Ovb</u> 10 cm bldrs recovered. | | | | |
| 10.83 | 38.15 | - | | <u>m.g., mass leuco C-Carb with Glim xenoliths cut by dykes of f.g. suc dol carbonate</u> lt cr-br, lt to med br and v. dk gy to blk. this interval is a texturally complex one. a m.g., lt coloured C-Carb is present, containng completely biotized Glim and calcareous Glim frags, 5 mm 80 cm. this complex of early Carb is intruded and partially disaggregated by a mass to poorly bnded lt br, v.f.g. suc Carb, often containing cm scale xenoliths of the older rocks. this later v.f.g. Carb may contain v.f.g. y REE mins locky, but is otherwise accessory min-poor. fl is virtually absent in this interval. Glim-rich areas: 15.6-16.55 m, 21.85-23.4 m, 27.5-27.9 m, 33.9-34.7 m. bnded Carb with dirty pale og REflc bnds 29.9-30.7 m, 31.05-31.4 m. late wk BD style mineralization. below 33.5 m the suc intrusive Carb is significantly less abnt, except 34.3-38.15 m. mag Glim and mag - phl-filled fracs 35.8-38.15 m. may locky 20% plus, patchy. base of interval set at more abnt Glim. | @20.4 m - bndg 72° @22.15 m - bndg 57° @26.4 m - bndg 54° @30.2 m - bndg 52° @34.1 m - bndg 47° Glim @36.75 m - bndg 34° | | 11.0-16.5 | 250-320 |
| 38.15 | 46.35 | - | | <u>Glim cut by various ages dol-Carb dykes.</u> v. dk gy, cr and med ol gr. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | the Glim is v.f.g. and mass. this is cut by thin, irregular cr Carb vnlets, giving a psd-brc text. | | | | |
| | | | | the Glim is cut by Carb dykes of various types, early m.g. cr C-Carb later f.g. It gy Carb and latest med ol gr, mass, v.f.g. Carb (see interval below). | | | 16.5-42 | 300-420 |
| | | | | the Glim locly contains mag (38.15-39.65), streaks and patchy of abnt f.g.-m.g py (39.95-41.55 m). below 43.6 m the Glim has a pale p hue due to five clsts of v.v.f.g. Na amph. | | | 42-45 | 250-350 |
| | | | | Carb dykes are most abnt above 41.95 m. | | | | |
| | | | | lower ctc set at end of abnt Glim, ctc brcd. | | | | |
| 46.35 | 51.30 | - | | <u>v.f.g. mass dol-Carb with abnt xenoliths</u> med-dk gy-gr. | | | | |
| | | | | interval composed of v.f.g. suc carbonate cut by numerous irregular v. thin phl-filled stringers. trace py and fl. most of the xenoliths are rnded elongate 2-3 cm long and carbonate-fl. xenoliths 10-15%. upper ctc brcd, lower irregular intrusive. rock of dfmn suggests late. below 49.0 m interval is dfmd by cr f.g. Carb patches 95-10 cm) and altd. | | | | |
| | | | | Glim patches with common interval fl (50.1-51.3 m). large xenoliths? | | | | |
| 51.30 | 72.50 | - | | <u>f.g. xtln, mass dol-Carb with REflc</u> str to med gy-gr. | @55.5 m - bndg 61° | | | |
| | | | | this Carb is composed of xtln carbonate. with 1% dull og-y flc xtl f.g. aggregates, diss or more often in thin irregular bnds, sometimes with phl minor py tr fl. diss and early frac fill gr phl also present. | @58.25 m - bndg 64° | | 45-56 | 340-390 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 72.50 | 90.75 | - | | <p>the intervals is mass to v. poorly bnded. below 65.7 m (sharp ctc) the unit becomes v.f.g. suc and has no visible REE mins. resembles a lt coloured 46.35 -51.3 m, in some xenoliths.</p> <p>Glim xenoliths: 52.85 (4.5 cm), 53.55 m (7 cm), 55.9-56.0 m, 56.5-57.85 m (7 med), 60.05-60.3 m, 60.95-61.1 m, 61.35-61.5 m, 62.35-62.55 m. all of these are C Glim ± equally carbonate and phl. as well these have 5% py and 10% f.g., diss glassy p fl. bottom 1.35 m mod fracd and have 10 cm xenoliths? of cr Carb. lower ctc set at beginning of abnt Glim. relatively lt coloured 67.6-68.65 m.</p> <p><u>Glim and fl-Glim with f.g. dol-Carb dykes.</u></p> <p>v. dk gy, v. dk p-gy and lt br.</p> <p>interval composed of of f.g. phl carbonate rock with minor f.g. py (Glim). the proportions of phl and carbonate vary widely. below 76.5 m much of the Glim contains abnt pale p fl and may have only ± 30% phl.</p> <p>the Glim are cut by early w cc vnlets and 2+ generations of Carb dykes. the early Carb dykes are fracd and mildly dfmd along with the Glim (C-Carb). the late Carb dykes are blotchy colours mottled, v.f.g. suc, with diss flakes of phl, minor py, trace fl and REflcs.</p> <p>the overall texts is mildly chaotic.</p> <p>Carb-rich sections: 74.75-74.9 m, 76.55-77.5 m, 86.45-86.9 m, other lesser patches.</p> <p>overall 75% Glim of varous degrees of altn. no primary bndg.</p> | <p>@66.75 m - bndg 66°</p> <p>@70.2 m - bndg 53°</p> <p>@70.9 m - bndg 55°</p> | | 56-57 | 300-360 |
| | | | | | | 67-72.5 | 250-350 | |
| | | | | | | 72.5-78 | 250-290 | |
| 90.75 | 114.25 | - | | <p><u>early m.g. C-Carb with Glim xenoliths cut by f.g. dol-Carb</u></p> <p>cr-w, v. dk gy, and lt br to lt gy.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 114.25 | 143.55 | - | | <p>the oldest litho is the Glim. it is v. dk gy and mass. the rock is a v.f.g. aggregate of dk gr phl and carbonate, trace py. the proportions vary from almost pure phl to 70% carbonate (a metastomatic Carb). the Glim is cut by early fine, random cc vnlets. much of the Glim is enclosed in cr-w, m.g., accessory min poor C-Carb, often mod brittle fracs. occasionally the carbonate vnlets can be traced out of the Glim to join the cr Carb.</p> | | | 78-92 | 200-260 |
| | | | | <p>this C-Carb - Glim "complex" is cut by dykes and masses of a v.f.g. suc-texted dol-Carb, blotchy colour mottled in shades of lt gy and br. this Carb contains fracs of py, fine fl patches and near Glim 1% phl flakes.</p> <p>where this Carb is in ctc with Glim the Glim is v. carbonate-rich.</p> <p>this interval would vary approximately 1/3 each.</p> | | | 92-95 | 250-330 |
| | | | | <p>p-hued fl Glim: 111.6-112.35 m, 113.25-114.0 m, 115.55-115.8 m. in these sections the fl bearing rocks are interspersed with "normal" Glim. possibly the fl replaced sections had an originally different composition - more sections.</p> <p>Carb-rich sections: 91.25-92.15 m, 93.65-94.35 m, 96.35-97.65 m, 100.3-108.75 m (both early and late), 110.55-111.55 m.</p> <p>many shorter intervals. fl vns as grains and patches mean some Glim frags, replacing WR frags locally and trace blebs in the late Carb - not abnt - minor.</p> <p>base of interval set at end of significant sections of early Carb and thicker "inter-bndg" of Carb and Glim.</p> <p><u>inter-banded f.g. mass dol-Carbs and Glim</u></p> <p>med br-gy, lt br-gy and v. dk br-gy.</p> | | | 95-102 | 300-370 |
| | | | | <p>this interval consists of f.g., mainly xtln dol-Carbs of at least three types inter-banded with relatively thick (compared with above) intervals of v.f.g. Glim. the dol-Carbs include 1 - a mass, f.g. xtln ore with 1-2% f.g. diss REE, minor py and fl, 2 - a v.f.g. mass, suc Carb, 3 - a xtln Carb with phl, py and minor mag, 4 - f.g. suc Carb with 1% fl and py without REE mins.</p> | | | 102-119 | 250-360 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|-----------|-----------|---------------------|--|-------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 143.55 | 169.66 | dol-Carb | | the Glim are generally carbonate-rich (calcareous Glim), major Glim intervals: 119.7-120.45 m, 122.4-123.3 m, 128.95-129.5 m, 129.95-130.4 m, 133.0-134.9 m, 137.3-140.3 m. | @116.9 m - bndg 66° | | 119-130 | 250-350 |
| | | | | early m.g., xtl n fracd lt cr C-Carb: 121.35-121.5 m, 130.8-131.25 m, 131.9-133.0 m. | @123.85 m - bndg 69° | | 130-135 | 200-260 |
| | | | | flc-rich v.f.g. Carb: 123.75-123.9 m, 128.0-128.9 m, 129.6-129.95, 140.6-140.65 m. | @127.9 m - bndg 52° | | 135-142 | 190-230 |
| | | | | lower ctc set at decrease in Glim abundance. | | | | |
| | | | | <u>phi dol Carb</u> colour: lt ol-gy, med dk gy (5Y 6/1, N4). | | | | |
| | | | | mineralogy: dol: 86%, f.g. suh; phl: 10%, f.g., suh; py: 3%, f.g., suh; qtz: 1%, v.f.g., anh; cc: trace, v.f.g., anh; fl: trace, v.f.g., anh; amph: trace, f.g., anh; mag: trace, f.g., anh. | | | 146.00 | 280 |
| | | | | 143.55 m to 169.66 m - f.g. lt ol-gy dol-Carb with itsl med dk gy to blk Glim patches ± rare siliceous WR clst. rare frac-rel fl. 143.55-167.96 m - text wkly mottled to mass with brc patches. | | | 149.00 | 250 |
| | | | | 142.19 m to 144.12 m - Glim/siliceous WR ibd, brcd ctc margins → up ctc grad, lower ctc sharp ~50° TCA along irregular frac. interval contains shallow angle frac with sks and skl, probable FZ. | | | 152.00 | 260 |
| 150.48 m to 150.66 m - po/ser chip frags ± v.f.g. mod r-br lim. | | | 155.00 | 270 | | | | |
| @154.34 m - sharp ctc between lt ol-gy dol-Carb and med dk gy sul? enriched dol-Carb at ~53° TCA. | | | 158.00 | 265 | | | | |
| 156.36 m to 156.90 m - patches of dk gy f.g. anh to suh mag ± f.g. suh py. | | | 161.00 | 300 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 169.66 | 175.64 | dol-Carb | | 165.00 m to 167.96 m - ~2% frac-rel fl ± qtz + amph. sharp ctc with brc @167.96 m. | | | 164.00 | 305 |
| | | | | 167.96 m to 169.66 m - mtx-sup brc; f.g. to c.g. ang to sub-rnd clsts in v.f.g. med dk mtx, multi-lithic clsts → dol-Carb and Glim and siliceous WR, ctc at 167.96 m sharp ~53° TCA. | | | 167.00 | 350 |
| | | | | min CPS: 220; max CPS: 380; avg CPS: 265. | | | | |
| | | | | <u>dol-Carb</u> colour: lt ol-gy, pale y-br (5Y 5/2, 10YR 6/2) | | | | |
| | | | | mineralogy: dol: 95%, f.g., suh; mag: 3%, f.g., suh; py: 2%, f.g., suh; fl: trace, v.f.g., suh; po: trace, f.g., anh; phl: trace, f.g., suh; mnz: trace, f.g., anh. | | | 170.00 | 460 |
| | | | | 169.66 m to 175.64 m - f.g. lt ol-gy to pale y-br dol-Carb with patches of gy-blk f.g. suh mag ± f.g. py and po. phl content increases approaching lower ctc. notable increase in RA compared to bndg units. | lower ctc @ 169.66 m grad. | mass | 173.00 | 550 |
| | | | | min CPS: 330; max CPS: 575; avg CPS: 400. | | | | |
| 175.64 | 200.51 | WR | | <u>siliceous - dol bio/phl WR brc</u> colour: dk gy, y-gy (N3, 5Y 7/2) | | | 176.00 | 280 |
| | | | | mineralogy: bio/phl: 60%, f.g., suh; qtz: 20%, v.f.g., anh; dol: 15%, f.g., anh; cc: 4%, v.f.g., anh; py: 1%, f.g., suh; fl: trace, v.f.g., anh; mag: trace, f.g., anh. | | | 179.00 | 230 |
| | | | | | | | 182.00 | 240 |
| | | | | | | | 185.00 | 250 |
| | | | | 175.64 m to 200.51 m - hetero WR brc; dominantly clst-sup with f.g. to rare v.c.g. ang to sub-rnded siliceous or carbonate clsts and itsl bio/phl ± dol ± cc. common x-cut dol-Carb dykes and irregular dol-Carb stringers. text: hetero → dominantyl clst-sup brc with mass or mottled intervals. | lower ctc @ 175.64 m grad, transition to wall. | | 188.00 | 285 |
| | | | 191.00 | 265 | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 200.51 | 241.71 | WR | | 184.10 m to 184.96 m - mottled f.g. dol-Carb ibd with ~1% fl blebs, sharp ctcs. @184.10 m - up ctc undulating ~70° TCA. @184.96 m - lower ctc irregular, brcd margin. | | | 194.00 | 310 |
| | | | | min CPS: 215; max CPS: 350; avg CPS: 260. | | | 197.00 | 300 |
| | | | | <u>siliceous dol bio/phl WR brc</u> | | | 200.00 | 288 |
| | | | | color: dk gy, med gy (N3, N5). | | | 203.00 | 225 |
| | | | | mineralogy: bio/phl: 70%, f.g., suh; qtz: 20%, v.f.g., anh; dol: 10%, f.g., anh; cc: 4%, v.f.g., anh; py: 1%, f.g., suh; mag: trace, f.g., anh. | | | 206.00 | 275 |
| | | | | 200.51 m to 241.71 m - hetero WR brc; dominatly clst-sup with f.g. to rare v.c.g. ang to sub-rnded siliceous or carbonate clsts and itsl bio/phl ± dol ± cc. common x-cut dol-Carb dykes and irregular dol-Carb stringers. fol developed along itsl bio/phl planes. lower ctc at 241.71 m. | | | 209.00 | 280 |
| | | | | | | | 212.00 | 240 |
| | | | | | | | 215.00 | 215 |
| | | | | | | | 218.00 | 200 |
| | | | | fol throughout interval consistantly between 60-70% TCA, development of local brc lineations. | | | 221.00 | 220 |
| | | | | | | | 224.00 | 240 |
| | | | | min CPS: 160; max CPS: 280; avg CPS: 240. | | | 227.00 | 250 |
| | | | | | | | 230.00 | 230 |
| | | | | | | | 233.00 | 220 |
| | 236.00 | 215 | | | | | | |
| | 239.00 | 175 | | | | | | |
| | | | | | | | | |
| | | | | EOH | | | | |

Durante
OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 535903.19 | Drill Company: Bodnar Drilling Ltd. | Date Started: Aug 30, 2011 | Downhole Survey: Yes |
| Expl. Area: Triple-D | Northing (m): 6313285.09 | Rig Type: Discovery I | Date Completed: Sep 01, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 1007890 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 320° | Core size: BTW | End of Hole: 185.06 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Durante | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|-----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 5.18 | | | Ovb rubble, small siliceous Carb micaceous clsts, very broken up. | | | | |
| 5.18 | 56.10 | | | qtz bio calcium Carb v.f.g.-m.g., med lt gy - med gy to gy-b xtl, modly-faintly loclly bnded, brc (?) calcium Carb. few pkish sections, but b-gy portions are a mix of qtz fsp? - v.v.f.g. diss bio - cc laterally, this is what makes up the groundmass). common metasomatized (?)/ wkly fennitized (?) WR(?). these portions often (but not always) contain dk b-gy qtz clsts brcd by intruding cc-Carb (abnt vnltts-stringers) and surrounded by abnt Glim(?) patches/vnltts/clsts etc (bio and/or phl-rich). common v.f.g.-c.g. sul throughout these "Glim" sections. common f.g.-c.g. diss mag xtls throughout, dk b, euh-rnd, 2-3 mm avg. often "needle-like" and few aph dk b-gy bnds of qtz with trace itsl cc and very few vnltts x-cutting. modal mineralogy - cc-Carb (+ other carbonates) 82%; qtz-fsp 8%; bio and or phl 10%; sul trace; mag 3%; dol-Carb trace. aside: bndng is compositional. difference in color is due to locl abundance of qtz fsp bio and or phl v.f.g. diss. 9.07 m to 9.13 m - v. pale ol-gy dol-Carb bnd with diffuse etc, brc abnt bio stringers and rare clsts throughout. these sparsely reoccur. 16.29 m to 16.39 m - pale ol dol-Carb bnd + common itsl cc. again, diffuse etc, no bio or visible qtz presnt. These sparsely reoccur throughout. | | | 150-200 | |
| | | | | | ~67° TCA | | to approx 51.72 | 150-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 56.10 | 188.06 | | | <p>23.06 m to 23.28 m - large ang (up to 2.5 cm wide) dusky b, very siliceous (dominantly qtz) clsts, always rimmed by ~1 mm of bio and or phl. seems to have aph mag xtls throughout, wk mag pull.</p> <p>32.66 m to 37.18 m - aph - f.g. lt gr-gy to pale ol - lt gy. mass dol-Carb but with same brc bnds with qtz and bio and or phl clsts, common bio and or phl stringers, diss sul throughout. trace itsl cc, trace diss mag throughout as well, but Carb is all dol. @~35.45 m, few visible stylolites present with "sawtooth" pattern.</p> <p>@~33.62 m - bio and or phl brc(?) bnd that fairly sharply fades to b-gy qtz, identical bnd. it looks as if mica replaces silica, and perhaps there was not rich enough fluid for altn to continue, temprature was not high enough, or fluids did not penetrate enough? this sparsely reoccurs throughout section. shp ctc back into cc-Carb.</p> <p>46.60 m to end - b-gy, large ang si-rich clsts rimmed by bio and or phl reappear, up to 10 cm wide.</p> <p>51.72 m to 52.57 m - common bnds of dk y-br, aph, H=4(?), with shp ctc. looks like a sedimentary feature - clay(?).</p> <p>53.91 m to 54.70 m - pale ol to lt ol-gy, faintly mottled, mass dol-Carb bnd (v.f.g. homo) interval ends because of sharp ctc of calcium-Carb with dol-Carb.</p> <p><u>ap qtz bio dol-Carb</u></p> <p>v.f.g.-f.g. (loclized aph section) of pale ol to gy-y to y-gy to lt ol-gy, faintly mottled locl, heavily mottled section), generally mass, homo dol-Carb. common brc sections with common b-gy qtz clsts and blk-br bio and or phl clsts-stringers throughout. brc portions commonly occur in bnds in shp ctc with mass, homo dol-Carb ± rare itsl cc. looks almost identical to brc portions seen in calcium-Carb.</p> <p>random and sparse diss flecks throughout (eg 57.20 m to 57.41 m - bio 'clsts' that are platy and rectangular) random and sparse diss flecs throughout. Localized areas of wk-mod bnding. dk gy portions due to compositional variation (usually v.v.f.g. diss qtz, fsp ± bio).</p> | <p>bnding ~78° TCA</p> <p>bnding ~60° TCA</p> | | | |
| | | | | to end of unit | 150-200 | | | |
| | | | | | | | avg | 125-200 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|------------|---|--|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy - dol-Carb (+ other carbonates) 62%; qtz-fsp 8-10%; bio and or phl 28%; ap 5%, sul trace, rt-amph-talc-cc-di trace.</p> <p>rare diss ap clsts, sometime concentrated in vnltz or bnds sparsely distributed throughout. first ~1 m is heavily mottled, with rare bio stringers and qtz clsts.</p> <p>64.00 m to 68.29 m - actual dol-Carb is brc instead of brc being concentrated in bnds mtz sup, with common large clsts avg 1-2 cm, mostly qtz but sometimes bio and or phl, commonly angular, with mod abnt bio stringers and f.g. diss sul and trace ap. this rarely occurs downhole.</p> <p>73.29 m to 76.26 m - Carb is distinctly gy-y, locky mottled, mass, homo. abnt ap within (up to 20% in this section). rare gy-b diffuse bnds patches - looks like v.v.f.g. w mica (?) locky concentrated in these sections, ± qtz.</p> <p>79.36 m to 83.69 m - mod well bnded aph to v.f.g. dol-Carb. bnds due to comp variations (?). really y-gy portions are ap bnds - fairly abnt. bnding ~55° TCA throughout section ±5°. in last 10 cm, v. lt p fl clsts (only one of its kind).</p> <p>~83.80 m to 84.07 m - abnt moderate y-br mm, v.f.g. diss throughout. Ti-rich. rt?</p> <p>83.60 m onwards - in general, brc bnds are more wkly brc. common bnds of almost entirely bio and or phl (Glim?) - few carb vnltz.</p> <p>90.71 m to 91.35 m - core had a lt b tinge to it. v.f.g. dk b-gr, needle-like min diss throughout (amph?). also common shimmery platy min common (w mica?). combination of both giving off color? (or prehaps alternative product, and some f.g. talc throughout loclized v. soft sections).</p> <p>starting at ~95.50 m - "brc" bnds have common med gy patches. these seem to be Carb + abnt f.g. diss qtz ± rare w mica (?). reoccur through rest of interval, generally in gy dol-Carb. still common "Glim" portions and bio stringers throughout.</p> | <p>~70° TCA</p> <p>bnding ~55° TCA</p> <p>dk gy bnd</p> | <p>brc</p> | <p>thru 82.33</p> <p>82.33</p> <p>thru 116.55</p> | <p>125-225</p> <p>350</p> <p>avg 125-225</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---------|---|-------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>99.88 m to 100.00 m - 2 fracs in core and fracd surface feels polished/waxy. shows strong lineation and appears to be sks, where wkness ocured along bio vn. definite evidence of shear, @ ~19° TCA.</p> <p>~107.12 m to ~111.00 m - common f.g. y-br min diss throughout "Glim" sections, rt?</p> <p>13.90 m to 114.01 m - clean milky w, transparent qtz vn.</p> <p>116.55 m to 137.29 m - "brc" portions have distinct medium bl-gy to dusky blue tone to them. (with locl br vnlt) some sections well fol(?) / bnded, while others are mass (lith seems to vary, depending on text) - all aph - v.f.g., so difficult to determine. well fol(?) - bnded portions seem to have v.f.g. amph diss with common v. soft lighter b-gy talc surrounding (can only distinguish between the other two under microscope) in more mass sections, seems to be somewhat siliceous. these are more dusky b, fsp ± qtz + v. rare diss amph + abnt w mica? (still fairly soft (H=~4.5). in both of these sections, there are very thin vnlt-stringers of dol-Carb and phl ± v.f.g. diss sul py+po sph? (gives off wk rotten egg odor, so possibly sph diss within as well). trace rt concentrated in small vnlt. some of med lt b-dusky b portions have vnlt that are "swirled" and display some definite hydrothermal influence. perhaps this is what is causing these sections - hydrothermal overprint.</p> <p>131.60 m to 133.02 m - aph, lt gr-gy dol-Carb bnd that is very homo and mass with trace micaceous clsts whole bnd is <u>very</u> ap-rich (up to 35%) - b-w UV flourescent response.</p> <p>140.09 m to 140.33 m and 140.97 m to 141.30 m - bright gy-y bnds (distinct contrast against dol-Carb) of pure ap bands. these commonly reoccer throughout rest of interval, and are quite abnt.</p> <p>148.80 m to end - sparse mag xtls (1mm-1.5cm) that are dull dk gy, euh blotches.</p> | <p>slicken side (shear) @ ~19° TCA</p> <p>bnding ~30° TCA</p> <p>116.50 bnding ~33° TCA</p> <p>foln(?) / bnding ~33° TCA</p> <p>bnding ~28° TCA and bnding ~ 27° TCA</p> <p>bnding ~40° TCA</p> | | <p>116.55 m to 137.29 m</p> <p>thru EOH</p> | <p>175 max</p> <p>150-250</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>154.92 m to 159.62 m - dol-Carb is med gy to faintly med b-gy, well fol (?) defined by abnt <1 mm vnlt of bio + sul (@ ~37° TCA @ ~155.05 m ~102° TCA at 158.40 m.</p> <p>140.33 m to 173.87 m - v.f.g. ol-bk to pale y-br micaceous-rich section. mainly bio and or phl, with rare dol-Carb blebs and clsts, common f.g. diss sul and homo sharp ctc on both ends.</p> <p>173.87 m to end - brc bnds do not really exist anymore. now it's more flow bnding patches with swirly vnlt throughout. hydrothermal overprint? all fbndg is at very shallow angles TCA, if not parallel with CA. hetero texts exist in this last portion of core, with large compositional variation in dol (as seen in change of variety of colours).</p> <p>181.64 m to 181.97 m - rare hem(?) clsts and streaks. look very out of place in core.</p> <p>180.68 m to end - common clsts and flow bnds of aph-v.f.g., gy-y-gr. H=6, too f.g. to tell, but my guess is di. a majority of this section especially last ~1.75 m, is the v.f.g. med b gy - dusky b gdmass (trace amph-talc? within).</p> <p style="text-align: center;">EOH</p> | <p>fol(?) ~37° TCA</p> <p>fol(?) ~62° TCA</p> <p>flow bnding @21° TCA</p> <p>flow bnding</p> <p>flow bnding parallel TCA</p> | | | |

GEOLOGICAL DRILL LOG

OGQ # 223

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 539139.75 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 01, 2011 | Downhole Survey: Yes |
| Expl. Area: Beckling | Northing (m): 6312886.54 | Rig Type: Discovery I | Date Completed: Sep 02, 2012 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087796 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 1.52 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: BTW | End of Hole: 99.67 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

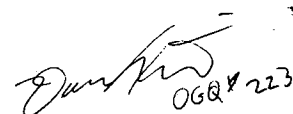
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|----------|--------|---------------------|------------------|--|-----------|---------|---------------|--------------------|---------|
| | | | | | | | DEPTH (m) | CPS | |
| 0.00 | 1.40 | OVB | | <u>Ovb/ incasing, no core recovery</u> | | | | | |
| 1.40 | 4.67 | dol-Carb / Non-Carb | | <p><u>dol-Carb</u></p> <p>generall It gy v.f.g. mottled dol-Carb with min fl patches/streaks and itsl - mottled appearence; locly there are few mass patches of bio, that might be caused by high temperature hydrothermal activity; dol-Carb is mostly overprinted by It ol-gy f.g. F-Carb, that shows the same text as dol-Carb, but with ol-gy Fe-clsts instead of fl that might be associated with xnt? as indicated by high radioactivity in It ol-gy sections; the F-Carb seems to be intrusive with irregular shapes and often dol-Carb clsts in it; sul occur in traces as blebs.</p> <p>modal mineralogy - dol (and other carbonates) 96%; fl 2%; bio 2%; sul trace.</p> <p>1.40 m to 1.85 m - It gy dol-Carb locly overprinted with It ol-gy F-Carb, min bio blebs/patches, several fl infilled brittle fracs and min fl.</p> <p>1.85 m to 1.95 m - mass bio with few clsts of It gy dol-Carb.</p> <p>2.15 m to 4.00 m - abnt F-Carb overprint, from 3.40-4.00 m F-Carb overprint is in stringers/vnlts with sharp ctcs to dol-Carb.</p> | | | Overall | 1000-1400, avg 800 | |
| 4.67 | 67.18 | dol-Carb | | <u>bio/sul dol-Carb brc</u> | | | | overall | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | Non-Carb | | <p>brc, v. hetero unit, variable amounts and sizes of ang to sub-rnd clsts of lt gy and v. lt gy dol-Carb in med gy, med dk gy and locly dk gy ground mass, that barely fizzes with HCl --> v.f.g. bio-rich and sul-rich (locly dk streak and soft); could be a silica-rich ctsc hydrothermal overprint, the brcd the dol-Carb.</p> <p>w [with? sp?] sections show less overprinted dol-Carb, locly the rock is fol with elongated dol-Carb clsts qtz is a min phase and occurs as blebs, few vnlt and very few mass vns.</p> <p>modal mineralogy - bio 24%; dol (and other carbonates) 70%; sul 4%; fl <1%; qtz 2%.</p> <p>4.67 m to 13.60 m - mostly lt gy v.f.g. dol-Carb that looks mottled with min med lt gy coloured vnlt or itsl, min to abnt bio-rich ground mass intruding dol-Carb in various irregular shaped patches/bnds/stringers thereby brcg dol-Carb.</p> <p>@ 9.70 m - 10 cm hydrothermal patch with qtz, w dol, bio, trace fl.</p> <p>13.60 m to 16.40 m - brc of sub-ang lt gy dol-Carb clsts of 2.20 mm in lt ol-gy to ol-gy F-Carb: ground mass with min sul; trace bio patches.</p> <p>16.40 m to 28.05 m - sections with sub-ang dol-Carb clsts in v.f.g. med gy to med dk gy ground mass, and sections of 20-80 cm of lt gy dol-Carb with min features of hydrothermal activity/overprinting</p> <p>the ground mass is often bio-rich, but might also be dol-rich --> hard to distinguish, but probably due to variable degree of silica altn/overprinting, ground mass can also be sul-rich locly wk fol.</p> <p>28.05 m to 53.05 m - brc, abnt sub-rnd to ang clsts/blebs of dol-Carb of 2 mm -10 cm in med gy to med dk gy ground mass which can be bio-rich and or dol-rich -> silica-overprinted dol-Carb ground mass with differing degrees of overprint?</p> <p>locly some med dk gy mass buds/dykes? are x-cut (especially 33.20-33.40 m), which seem to be similar to ground mass of brc and have a minimum amount of bio-sul, but mostly comprise transpndnt min, v.f.g. -> TS 108281 to R. Mitchell in few sections rock is wk with elongated dol-Carb clsts.</p> | | | first few meters | 400-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 67.18 | 99.67 | | | <p>@ 31.80 m - 15 cm mass qtz vn x-cut.</p> <p>@ 35.70 m - 10 cm qtz patch with w-y dol.</p> <p>53.05 m to 67.18 m - larger sections of v.f.g. to f.g. lt gy to y-gy dol-Carb with few qtz blebs and trace fl (only in hydrothermal fl qtz patches); between dol-Carb sections there is the same brc as in previous interval.</p> <p>last 10 cm of unit have min itsl cc.</p> <p>end of unit is defined by change of text to well fol, probably even change of litho to calcareous gneiss.</p> <p>wk foln 35° @ 24.20 m; 48° @40.4 m; 49° @44.45 m; 46° 47.1 m; 47° 60.45 m.</p> <p><u>cc dol qtz fsp gneiss</u></p> <p>v. well bnded/foled v.v.f.g. med gy to med gy rock; cc and dol are common and occur itsl in the ground mass and dol-(Carb?) is also present loclly in rnd grains/clsts, that are elongated parallel to foln -> proves schistosity; cc is more common than dol and reoccurs itsl and in concorant w cc bnds; few bnds are dk gy w/ a dk gy streak and are ibd with the more common med gy bnds with a continous transition between both (no sharp ctcs).</p> <p>sul are common and comprise py and po qtz almost exclusively occurs in mass vns and patches, which seem to be the only structural/text element, that loclly might x-cut the foln.</p> <p>due to the v.v.f.g text it is not possible to determine the rock chemistry and classification, my best guess is a calcareous metasedimentary gneiss; the rock shows some defmational features despite foln such as sigma clsts, small-scale drag folding and defmd discordant vns, that indicate movement during applying pressure, so it might as well be some kind of shr zone.</p> <p>modal mineralogy - cc 30%; dol 10%; qtz/fsp 50%; bio 5%; sol/ox 5%.</p> | | | overall | 200-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>75.40 m - foln changes abruptly from 86° to 46° within 15 cm and @75.90 m back to 83°.</p> <p>69.00 m to 72.50 m - several qtz vns of 1-3 cm, are most concordant, some cut discordantly (especially @72.10m) .</p> <p>72.40 m - 10 cm qtz patch/vn with min cc and py and po, next to it @ 72.35 cm there is a structure that looks like pyritized ripple marks -> sedimentary feature.</p> <p>72.30 m to 72.85 m - more common sul-rich bnds.</p> <p>72.30 m - discordant cc vn that cuts clay-rich? bnd, due to applied pressure the discordant cc vn breaks and gets offset by a few mm, while the clay-rich layer smears around it.</p> <p>77.10 m - small scale drag-folding of a 2 mm ltr layer surrounded by dk gy layers, that gets drag folded by x-cut little shear zone.</p> <p>86.00 m - sigma-clst of hydrothermal patch of qtz+cc+trace fl; direction of movement indicated by a sigma-clst is parallel to foln.</p> <p>86.20 m to 87.10 m - abnt vns of 5-20 cm composed of qtz+cc/dol+py/po+trace bio, most have irregular shapes with irregular ctcs.</p> <p>92.80 m to 96.00 m - significant dkr colour to dk gy with trace itsl cc and almost vanished foln. 92.90 m to 94.00 m - with in sub-rnd to sub-ang 1-3 mm clsts? -> might also be prtc. 94.20 m to 94.50 m - several hydrothermal irregular patches of dol/cc+qtz+fl, while the xtl sequence is dol/cc->fl->qtz, since this is the rim-to-core profile.</p> <p>98.80 m - 12 cm mass qtz vn x-cut.</p> <p>last 15 cm seems to be a brc of med lt gy to med gy v.f.g. cc-rich clsts (maybe cc-Carb?) in v.f.g. med lt gy mtx.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | foln 62° @67.7 m; 76° @69.65 m; 86° @75.4 m; 79° @79.9 m; 65° @83.3 m; 70° @87.3 m; 81° @91.4 m; 79° @92.7 m. EOH | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 539139.78 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 02, 2011 | Downhole Survey: Yes |
| Expl. Area: Beckling | Northing (m): 6312886.88 | Rig Type: Discovery I | Date Completed: Sep 12, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087796 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 45° | Core size: BTW | End of Hole: 93.57 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -60° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|-------------------|------------------------------|-----------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 0.62 | OVB | | <u>Ovb</u> | | | | |
| 0.62 | 8.75 | Fe-Carb | | <p><u>Ctsc sul bearing fl F-Carb</u></p> <p>colour - ol-gy to lt ol-gy (5Y 4/1, 5Y 5/2).</p> <p>modal mineralogy - dol(+other carbonates) 90%, f.g. anh; fl 5%, v.f.g., anh; qtz 2%, v.f.g., anh; py 2% f.g. suh; phl 1%, f.g., anh; mnz trace, v.f.g., anh; sul trace, f.g., anh; fsp trace, v.f.g., anh.</p> <p>0.62 m to 8.75 m - hetero unit; sul-rich and poor zones → suls include py, po, gal and sph. siliceous zones and x-cut brittle frac qtz or fl vnlt throughout. colourations similar to Ashram's heavy zone → mod ol-br to ol-gy; abnormally high CPS → additional thorium bearing mins? silicates? frac rel Fe-ox throughout.</p> <p>3.90 m to 4.94 m - lenses and bnds of shrd phl.</p> <p>6.39 m to 8.03 m - shrd phl + mass qtz vns (~20 cm) with fl sul. fl + sul range from f.g. to c.g.</p> <p>@8.75 m - ctc sharp? broken zone.</p> <p>CPS min - 690; max 3150; avg - ~2100.</p> | | hetero→cts c?→ | 2.00 4.00 6.00 8.00 | 1100 3055 2450 715 |
| 8.75 | 21.16 | dol-Carb | | <u>* brc dol-Carb*</u> | | brc, mtx-sup | 10.00 | 1240 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | colour - lt ol-gy to y-gy ([5Y 6/1, 5Y 5/2], 5Y 7/2) | ctc @21.16 grad, txt trans | | 12.00 | 640 |
| | | | | modal mineralogy - dol 94%, f.g., anh; phl 3%, f.g., suh; qtz 1%, v.f.g., anh; py 1%, f.g., suh; fl 1%, v.f.g., anh; chl trace, f.g., anh; minsc trace, f.g., suh; mnz trace, v.f.g., anh; ap trace, v.f.g., anh; amph trace, f.g., sub. | | | 14.00 | 585 |
| | | | | 8.75 m to 21.16 m - unit is dominantly a mtx-sup brc through locally clst-sup or ctsc. clsts are f.g. to v.f.g. sub-ang to rnded f.g. dol-Carb. patches, bnds or lenses of phl throughout; phl may wrap dol-Carb clsts. common x-cut qtz vnlt ± chl ± pale mica → minsc? + rare f.g. lt br mnz? xtls. rare sks ± skl over interval. | 13.91-13.96 m ductile shr bnd @ 45° TCA, wkly undulating | | 16.00 | 675 |
| | | | | 8.75 m to 9.00 m - brc phl + dol-Carb clsts. | | | 18.00 | 340 |
| | | | | 9.00 m to 9.50 m - weak F-Carb? overprint, patches of perv fl with mnz? → XRF → ~1% Ce, 0.9% La, 0.3% Nol | | | 20.00 | 290 |
| | | | | 10.27 m to 11.37 m - F-Carb? overprint? trace fl + v.f.g. mnz? | | | | |
| | | | | 11.37 m to 13.91 m - wk F-Carb? overprint, perv v.f.g. dusky y carbonate ± mnz? throughout. | | | | |
| | | | | 15.92 m to 16.32 m - hydrothermal fl pockets with v. rare f.g. med br mnz? REflc? | | | | |
| | | | | 17.00 m to 17.50 m - perv v.f.g. dusky y carbonate with mnz? | | | | |
| | | | | CPS - min 260; max 1280; avg ~500. | | | | |
| | | | | 19.15 m to 21.16 m - drag fold closure? shrd phl bnds form rough bullseye. rare b-gy siliceous clsts. minor f.g. suh bl-gr amph? px? throughout with qtz. | | | | |
| 21.16 | 47.00 | dol-Carb | | <u>ctsc? phl-dol-Carb</u> | ctc @ 47 grad, txt transitions | | 22.00 | 275 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 21.16 | 47.00 | dol-Carb | | <p>colour - lt ol-gy to gy-blk ([5Y 5/2, 5Y 6/1], N2)</p> <p>modal mineralogy - dol 85%, f.g., anh; phl 9%, f.g., suh, qtz 3%, v.f.g., anh; cc 2%, v.f.g., py 1%, f.g., suh; fsp trace, v.f.g., anh; ap trace, v.f.g., anh.</p> <p>21.16 m to 47.00 m - shredded patches of phl throughout v.f.g. to f.g. dol-carb. phl may appear as clsts in dol-Carb mtx or itsl ± shear fabrics to dol-Carb clsts. phl patches may or may not have associated cc + qtz → metasomatism. fl mineralization has similar nature + geometries to phl → replacement? phl+fl do not typically occur together. core frequently alternates between dol-Carb ± phl; rare stylolites, v. rare x-cut Carb dykes. texture - ctsc?; mass appearance with f.g. clsts in mtx, locl lineations of elongate carbonate clsts.</p> <p>21.16 m to 26.00 m - phl patches rare, accessory to minor perv itsl fl ± mnz? dol-Carb has lt ol-gy colouration few similar Ashram characteristics → F-Carb?</p> <p>~26.00m - fl mineralization begins to decrease, increase in phl patches, colouration of carbonate mtx lightens as depth increases → F-Carb? → dol-Carb.</p> <p>CPS min 170 max 430 avg ~300</p> <p><u>dol-Carb</u></p> <p>28.38 m -29.17 m - F-Carb? with perv v.f.g. fl ± mnz?</p> <p>29.50 m to 30.30 m - few x-cut brittle frac qtz vns ± fl and f.g. anh lt br mnz?</p> <p>30.40 m - trace fl mineralization after this depth, increased size + frequency of phl patches ± cc → metasomatism? carbonate mtx transitions to y-gy to lt ol-gy colouration → increased qtz content?</p> <p>36.84 m to 37.09 m - x-cut dyke of dol-Carb dominantly composed of dol+cc+minor qtz.</p> | 21.16-23.00 m diffuse bnding ~30° TCA | 24.00 | 300 | |
| | | | | | | 26.00 | 390 | |
| | | | | | | 28.00 | 350 | |
| | | | | | | 30.00 | 400 | |
| | | | | | | 32.00 | 225 | |
| | | | | | | 34.00 | 300 | |
| | | | | | | 36.00 | 280 | |
| | | | | | | 38.00 | 235 | |
| | | | | | | 40.00 | 250 | |
| | | | | | | 42.00 | 200 | |
| | | | | | | 44.00 | 200 | |
| | | | | | | 46.00 | 220 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|--|--|---------------|---------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 47.00 | 93.57 | Brc | | 39.50 m to 41.50 m - f.g. to rare v.c.g. sub-ang to rnded clsts in finer carbonate ± qtz mtx. core develops locl lt br hue → v.f.g. mod r REflc? common x-cut brittle frac qtz vnlt. | ctc @ 93.57 m | brc, clst sup, locly ctsc | | |
| | | | | @ ~44.00 m - text to brc begins, dol-Carb clsts with itsl phl, rare b-gy siliceous clsts. | | | | |
| | | | | <u>phl-dol Carb brc</u> | | | 48.00 | 375 |
| | | | | colour: y-gy to dk gy (5Y7/2, N3) | | | 50.00 | 200 |
| | | | | modal mineralogy: dol 83%, f.g., anh; phl 10%, f.g. suh; qtz 5%, v.f.g., anh; py 2%, f.g., anh; fl trace, v.f.g., anh; cc trace, v.f.g., anh; fsp trace, v.f.g., anh; ap trace, v.f.g., anh, sph trace, f.g., suh; gal trace, f.g., anh. | | | 52.00 | 200 |
| | | | | | | | 54.00 | 240 |
| | | | | | | | 56.00 | 230 |
| | | | | | | | 58.00 | 250 |
| | | | | | | | 60.00 | 300 |
| | | | | | | | 62.00 | 270 |
| | | | | | | | 64.00 | 300 |
| | | | | | | | 66.00 | 310 |
| | 68.00 | 260 | | | | | | |
| | 70.00 | 300 | | | | | | |
| | 72.00 | 340 | | | | | | |
| | 74.00 | 250 | | | | | | |
| | 76.00 | 240 | | | | | | |
| | 78.00 | 275 | | | | | | |
| | | | 58.00 m to 60.80 m - large portion of dol-Carb clsts, x-cut y-gy f.g. dol-Carb dyke? clst? → 59.57-59.97 m - with lt br hues → diss REflc? | | | | | |
| | | | 47.05 m to 47.43 m - x-cut v.f.g. F-Carb dyke. | | | | | |
| | | | 47.67 m to 48.50 m - x-cut v.f.g. F-Carb dyke undulating along CA. | | | | | |
| | | | 48.50 m to ~58.00 m - phl shr fabric? dominantly undulates along CA or shallow angle TCA. few v.c.g. rnded dol-Carb clsts → f.g. y-gy ± perv dusky y carbonate + mnz | | | | | |
| | | | 55.90 m - dol-Carb clst with f.g. diss and mag. | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--------------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 60.82 m to 62.45 m - metasomatized meta-sedimentary ibd? xenolith? regular and uniform bnding → transposed bedding? comperssional micro fault @61.30 m; abnt brittle frac qtz vns, unit similar to those observed in EC11-067, 071, 080. | | | 80.00 | 210 |
| | | | | 66.76 m - ~15 cm F-Carb clst with max CPS 980 | | | 82.00 | 250 |
| | | | | ~67.00 m to 67.86 m - dyke of pale y-br dol-Carb entirely pervaded by qtz micro vnlt ± fl+gal+sph+py. fl appears to replace v.f.g. gy-ol carbonate patches. | | | 84.00 | 215 |
| | | | | 72.00 m to ~76.00 m - wk to med lineation developed in clst population, elongate + tapered @ ends; clsts dominantly align @ 10°-15° TCA, phl wraps around larger clsts. | | | 86.00 | 200 |
| | | | | 77.69 m to 83.00 m - few lenses/clsts of f.g. lt gy to y-gy dol? Carb ± qtz packets ± fl. Carb has high qtz content due to x-cut brittle qtz vns. | | | 88.00 | 190 |
| | | | | 78.81 m - frac rel? v.f.g. chl? with f.g. py. | | | 90.00 | 185 |
| | | | | 89.50 m to 91.35 m - y-gy dol-Carb x-cut by abnt brittle frac qtz vnlt, trace fl. rare hydrothermal qtz packet with drusy dol rim and qtz+fl core. | 91.35-93.57 m fol @ ~5-10° TCA | | 92.00 | 220 |
| | | | | CPS min - 160; max - 980; avg - ~260. EOH | | | | |

OGC # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536218.54 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 04, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312088.68 | Rig Type: Discovery I | Date Completed: Sep 06, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 224.64 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Eldor | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| 3.41 | 55.43 | dol-Carb | A | <p>fl dol-Carb</p> <p>lt ol-gy to med lt gy</p> <p>generally hetero, mostly mottled, locly brc, late stage dol-Carb and fl dol qtz vug common, fl patches commong f.g.</p> <p>modal mineralogy - dol (+other carbonates) 94%; fl 5%; qtz 1%; ap, bio trace; sul trace; mnz trace.</p> <p>top 50 cm are crushed with top 10 cm being bldrs (mostly v. lt gy unmineralized dol-Carb, 5 cm piece of pk cc-Carb), rest is same litho as downhole.</p> <p>in top 8 m natural fracs with lim coating of up to 3 mm common.</p> <p>min in unit is consistent to end text is bimodal:</p> <p>1. from beginning to 36.43 m mostly mottled, lt ol-gy to med lt gy dol-Carb, strly affected by hydrothermal vning, late-stage dol-Carb vns common throughout leading to hetero text, from 22.80-27.00 m mass to wk mottled text -> runs 1000 ppm Y, La/Nd =0.25 with 3000 ppm Nd-> heavies zone? from 21.03-21.21 m brc bnd (sharp ctcs with bio rims) with subrnd clsts comprising dk gr-gy, v.f.g. chl? clsts of up to 8 cm and v. lt gy dol-Carb clsts.</p> | | | overall | >1000 |
| | | | | | | | 3.28-28 | 1800-2200 |
| | | | | | | | 28-48 | 1400-1800 |
| | | | | | | | 48-55.43 | 1100-1400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>2. from 36.43 m to 55.43 m mostly mtx-sup brc, clsts are v.f.g. and to sub-rnd 1-50 mm gr-gy to lt gy, some clsts are layered (-> former late stage dykes?) and contain fl, some of these clsts comprise ap-clsts @36.67 m), other clsts have mottled to psd-brc text and are cut by mtx of brc (-> text before brcg?) see @ 38.16-38.34 m) mtx is v.f.g. ol-gy.</p> <p>late stage dol-Carb dykes occur throughout of up to 10 cm, rarely in brc areas (probably as clsts), they often show layered text, rarely fl bearing.</p> <p>fl occurs itls and in patches throughout, mostly dk p and f.g., rarely v.f.g. appearing lt p due to intergrown carbonates, often associated with mnz?/REflc ?</p> <p>very late-stage vnltls of different composition (but same event?) throughout the unit, mostly fl-dol vnltls, often qtz-dol (fl) vnltls, dol is often at rim of vnltls, qtz in centre sections of fl vnltls: 12.96-13.30 m, 14.39-17.78 m, (odly v.f.g. og min intergrown with qtz in vnltls (@28.63 m).</p> <p>sul is v.f.g. vnltls throughout, py blebs common.</p> <p>@45.58 m - 4 cm ap patch in area of intense hydrothermal vning.</p> <p>@44.73 m good example of age relationship between late-stage dykes and brc late-stage dyke gets cut by brc bnd.</p> <p>@50.97 m nice example of brc late-stage dol-Carb vn.</p> <p>end of unit based on change of colour, text and structure, sharp ctc to next unit, RA starts to drop continuously.</p> | | | | |
| 55.43 | 81.85 | dol-Carb | - | <p><u>fl dol-Carb (A zone?)</u></p> <p>pale ol to gr-gy and lt gy locally mostly mod fol, few late-stage dol-Carb vns v.f.g. to f.g. (continuous decrease in RA).</p> | | | 54.43-59.50 | 1000-1200 |
| | | | | | | | 59.50-73.67 | 600-800 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy - dol (+other carbonates) 92%; fl 7%; qtz 1%; sul trace; lim trace; mnz/REflc trace; ap trace.</p> <p>lt gy dol-Carb psd-brc by itsl fl, best visible from 55.43-64.50 m, fl common itsl and in bnds -> creating mod fol, downhole fol decreases and fl occurs in patches and bnds.</p> <p>psd-brc text is common with lt gy dol-Carb clsts and itsl fl, see 61.34-62.50 m, locally y-gy irregular clsts of 1-3 cm (see 64.00-64.50 m) -> only from 63.50 m downhole (eg @74.95-77 m)</p> <p>late-stage dol-Carb dykes are rare and more common in top half of unit, v.f.g., layered.</p> <p>fl qtz dol (py) vnlt common throughout in varying composition</p> <p>fl occurs often in mass patches/bnds, bnds often seem to be broken and mostly occurs itsl (especially in top half), fl is locally intensely intergrown with pale r-br mnz/REflc @ 61.69 m and 65.40-66.50 m -> one patch shows 2% Ce, 1% Nd, 4000 ppm Y.</p> <p>55.43 m to 58.78 m several natural fracs with 1-2 mm lim coating</p> <p>64.50 m to 65.17 m - brc bnd, mtx-sup, ang lt gy 2-5 mm dol-Carb clsts and min rud 0.5-2 cm pale r-p dol-Carb clsts, mtx is v.f.g. and lt ol-gy, trace op clsts. at end of unit RA was at lowest (~350 CPS) and overall colour changed from gr-gy to lt gy.</p> | | | 73.67-81.85 | 400-600 |
| 81.85 | 135.75 | dol-Carb | - | <p><u>fl dol-Carb</u></p> <p>mostly lt gy, locally pale ol generally mod fol, often psd-brc with itsl fl, min patches of fl, v.f.g. to f.g., few late-stage dol-Carb dykes.</p> <p>modal mineralogy - dol (+other carbonates) 93%; fl 5%; sul 1%; qtz <1%; REflc/mnz trace; amph trace; ap trace.</p> | <p>55.57 m - bnd 46° TCA</p> <p>61.67 m - bnd 51° TCA</p> <p>late-stage dykes</p> <p>70.80 m - bnd 37° TCA</p> | psd-brc | overall | 350-500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>overall well fol, foln mostly defined by elongated lt gy dol-Carb grains in fl mtx (psd-brc text), locly wk bnd psd-brc of y-gy to lt gr-gy irregular dol-Carb clsts in pale ol v.f.g. mtx (mostly <1 m) -> see 92.60-93.50 m. psd-brc.</p> <p>fl occurs mostly itsl, locly as mass patches/defmd bnds (@86.40 m, 15.50 m, for example), often intergrown with pale r-br REflc? and pk-w mnz?</p> <p>sul mostly as blebs, minor in vnlt trace patches qtz in v. late-stage qtz dol fl vnlt which occur throughout. (sul, qtz, amph).</p> <p>81.85 m to 86.00 m - amph blebs occur frequently, locly abnt in patches, see 85.94 m and 81.87 m in particular.</p> <p>87.50 m to 87.80 m - abnt itsl transparent ap with intergrown mnz?</p> <p>@ 93.10 m - vnlt with abnt patches of chl, minor intergrown p fibrous amph. (p amph? chl).</p> <p>some zones have higher fl content in those zones fl occurs itsl and in patches, dol-Carb is psd-brc in mostly elongated grains, intergrown is mnz? (fl ~10%).</p> <p>(pk-w)+REflc? (pale r-br): @94.80 to 95.50 m; 99.00 to 102.00 m; 114.15 to 117.05 m; 132.60 to 133.10 m.</p> <p>@ 103.30 m - qtz vn with min euh py x-cut with 8° TCA, 1-5 mm.</p> <p>106.10 m - zone of enriched mnz/REflc content, intergrown with min fl and min sul vnlt. -> La 2%, Ce 3%, 42000 ppm, La/Nd ~3.</p> <p>107.00 m - 7 cm bnd of dk gy dol-Carb, v.f.g., micro-xtln sul diss?</p> <p>107.50 m to 108.60 m - y-gy psd-brc dol-Carb with min sul in bnds, min itsl fl.</p> | <p>psd-brc</p> <p>late-stage vnlt</p> <p>94.20 m -fol 66° TCA</p> <p>101.42 m - fol 49° TCA</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---------------------------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 109.00 m to 112.20 m - pale ol, homo mass to peppered text, min diss sul, few late-stage fl vnfts. | | | 113-117.80 | 550-700 |
| | | | | 112.22 m - 6 cm sul patch, locly altered to goe, min mag. | | | | |
| | | | | 115.50 m - zone of 20 cm brc with abnt sul patches, very lt gy dol-Carb clsts (avg 2-20 mm). | 116.10 m - fol 46° TCA | | | |
| | | | | 113.50 m to 124.00 m - several natural joints with lim coating of 1-3 mm, see in particular 122.54 m. | | | | |
| | | | | 127.90 m to 128.30 m - clst-sup brc, ang lt gy 3-30 mm dol-Carb clsts and pale. | | | | |
| | | | | 129.25 m - 4 cm patch of w dol+qtz, right behind is a 7 cm bnd with abnt sul and min mag. | | | | |
| | | | | 131.35 m - 6 cm patch with abnt sul, min w dol, min pale r-br REflc. | 132.60 m - fol 45° TCA | | | |
| | | | | 133.10 m to 135.48 m - psd-brc of lt gy irregular dol-Carb clsts in y-gy to pale ol mtx, trace itsl fl, increasing qtz vnfts (in particular @ 134.40 10 cm qtz vn). | | | | |
| | | | | 135.10 m - 8 cm patch of w dol, min fl, gy-blk sul, qtz . | | | | |
| | | | | 135.48 m to 135.75 m - brc of rnd lt ol-gy dol-Carb brc with itsl bio/chl and qtz vns. | | | | |
| | | | | end of unit is sharp ctc to Glim with abnt chl at ctc. | | | | |
| 135.75 | 194.53 | Glim | - | <u>biotized WR</u> mainly dk gy and gy-blk, locly gr-blk brc WR with mainly gy v.f.g. hard min (fsp?), common b-blk amph? and varying amounts of itsl bio, itsl dol and cc very common, abnt ibd bnds of dol-Carb and cc-Carb of 5 cm up to 2 m. | | | overall | 150-200 |
| | | | | | | | on Carb dykes | ~250-400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 194.53 | 201.21 | cc-Carb | - | <p>modal mineralogy - fsp? 45%; bio 15%, cc 20%; dol 10%; qtz 5%; amph 5%; sul trace.</p> <p>first 2 m are hetero, brc with few 5-8 cm wide spaced dol-Carb clsts, which are broken up and show abnt bio vnls - mtx is mostly composed of v.f.g. transparent gy fsp? with varying amounts of bio itsl -> dk gy to gy-blk colour; locly abnt itsl cc and smaller (1-2 mm) dol-carb frags throughout.</p> <p>138.70 m to 145.40 m - fairly homo, minor bioized fsp? rock with abnt (dol-carb?) vnls x-cut (mostly 1-2 mm up to 1 cm) with varying colours from w to pale ol, locly mass qtz patches/vns of up to 15 cm @ 141.40 m, 143.80 m), nearly no itsl cc, few amph bnds.</p> <p>144.55 m to 145.40 m - euh, m.g. py common.</p> <p>to end of unit - brc fsp? clsts with bio rim and abnt clsts of dol-carb and cc-Carb (varying in size from 1 mm to 10 cm) as well as dol-Carb and cc-Carb dykes.</p> <p>cc-Carb dykes are mostly lt gr-gy to mod pk and are at ends intensely ibd and brc with and by Glim, respectively - they are suc, f.g. to m.g., they contain minimal amounts of amph and min bio clsts, v. rare mag @ 154.80-158.85 m; 164.60-164.85 m, 170.85-171.25 m.</p> <p>dol-Carb dykes are f.g., lt gr-gy to y-gy, contain locly abnt big clsts and x-cut vnls with itsl cc, w to mod pk cc-Carb clsts are common; ctcs to Glim are sharp, though brc at ctc is common: @145.45-145.60 m, several dykes of 50-100 cm from 180.40-186.70 m.</p> <p>strly bioized areas (>30% bio) - 136.60-137.35 m; 148.65-149.85 m; 165.61-167.25 m.</p> <p>few late stage, undfmd dol-Carb dykes, v.f.g., lt ol-gy, 1-6 cm with sharp ctcs to Glim, often layered: @143.70 m, 150.70 m, 154.53 m, 171.40 m.</p> <p>at end of unit is a sharp ctc to w-pk cc-Carb.</p> <p><u>arfvedsonite cc Carb</u></p> | | homo | 194.53-201.21 | 300-450 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|--|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>gy-og pk with abnt dk b-gy bnds mostly well bnded, sections of w to gy-og pink suc cc-Carb with min arfvedsonite? and trace phl it ibd, with sections of dk b-gy psd-brc cc-Carb with abnt itsl arfvedsonite?, diss sul throughout f.g.</p> <p>modal mineralogy - cc 84%; arfvedsonite? 8%; dol 4%; phl 3%; sul 1%; mag traces.</p> <p>194.53 m to 195.81 m - cc-Carb has homo sections with min arfvedsonite blebs and trace phl blebs, few ~3 cm dk b-gy bnds, ctc to Glim is sharp.</p> <p>195.90 m to 197.35 m - skeletal text with ductile defmd arfvedsonite?-rich bnds/streaks in gy-og pk cc-Carb mtx; associated w/ dk b-gy arf-rich bnds is a v.f.g. pale r-br to lt br min mass, that comprises pych (Nb ~3000 pm, low REE), best visible @ 196.40 m.</p> <p>197.90 m to 200.80 m - well bnded, mostly dk b-gy psd-brc with few gy-or pk ibd bnds, minor diss mag throughout (most abnt from 198.95-199.80 m); major sul mins are py and po (diss throughout), min itsl phl. (mag, py/po).</p> <p>199.90 m - mod r-br min patch, looks like REflc, but Ca<1000 ppm, Y is 3500 ppm, streak is w, hardness ~5.</p> <p>200.80 m to 201.21 m - ibding of different rock types.</p> <p>lt gr-gy to y-gy dol-Carb, that loclly contains cc-Carb clsts and is brcd from 200.80 m to 201.05 m with Glim clsts.</p> <p>dk b-gy to g-blk Glim/ WR with abnt amph and min itsl phl and min suh 2-3 mm py xtls.</p> <p>dk b-gy and gy-og pk cc-Carb with min itsl amph (arfvedsonite?), mag is trace.</p> <p>few lt ol-gy v.f.g. lt ol-gy dol-Carb late-stage dykes, not dfmd and layered (flow bnds), @ 197.40 m, 198.05 m).</p> <p>end of unit is sharp ctc to Glim.</p> | <p>163.60 m - bndg 55° TCA</p> <p>196.50 m - bndg 50° TCA</p> <p>200.60 m - bndg 61° TCA</p> <p>late-stage dykes</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|------------------|----------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 201.21 | 224.64 | Glim | - | <p><u>bio fsp amph WR</u></p> <p>gy-blk to dk gy-b</p> <p>mostly homo fsp? rock with varying amounts of itsl bio min to abnt itsl cc, locly amph-rich, min cc-Carb/dol-Carb clsts/bnds throughout.</p> <p>modal mineralogy - fsp? 55%; bio 10%; amph 10%; cc 15%; dol 9%; sul 1%.</p> <p>cc-Carb dykes/bnds are w, f.g. to m.g., contain trace py, ctcs are sharp and have bio rim; usually 3-10 cm : @ 203.47 m, 202.80 m, 214.10 m.</p> <p>dol-Carb dykes/bnds are w to lt gr-gy, f.g., often strly ibd with Glim, locly sharp ctcs.</p> <p>203.20 m to 207.75 m - mtx-sup brc, v.f.g. dusky y-gr broken clsts in all sizes (from 2 mm-25 cm) -> fsp? + pyx needles, clsts are broken and exhibit bio+cc vnlts, mtx is v.f.g. fsp? with min itsl bio.</p> <p>212.30 m to 217.85 m - dk b-gy v.f.g. amph-rich (~30%) WR with trace itsl sul ibd with v.f.g. br-gy bnds of (phl-rich?) WR.</p> <p>216.85 m to 217.15 m - broken dusky y-gr clsts (same clsts as in 203.20 m to 207.75 m) seem to be replaced by amph.</p> <p>218.60 m to 224.64 m - peppered text with lt gy (micro-xtln fsp?) rnd 1 mm clsts/penos, trace itsl cc, mtx is bio (~15%)</p> <p style="text-align: center;">EOH</p> | late-stage dykes | | 201.21-224.64 | 170-220 |
| | | | | | | peppered | | |

GEOLOGICAL DRILL LOG

OGQ # 223

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536192.37 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 06, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312130.54 | Rig Type: Discovery I | Date Completed: Sep 08, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 178.92 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: N. Nolte | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| 4.07 | 78.94 | dol-Carb | A | <p>fl - dol-Carb</p> <p>overall lt ol-gy and ol-gy.</p> <p>text is hetero, mostly mottled to patchy with locly abnt fl patchy, minor sections of ol-gy homo v.f.g. dol-Carb with abnt v.f.g. itsl streaks of pale br mnz?/xnt? → mostly high Nd/La ratio → heavy zone.</p> <p>modal mineralogy: dol: 93%; fl: 5%; REflc/mnz: 2%; qtz, ap, lim, sul each in trace.</p> <p>several natural lim coated fracs (~1-2 mm lim) in first 25 m.</p> <p>4.07 m to 7.40 m - abnt lt ol-gy layered late stage dol-Carb dykes (account for ~40% of core).</p> <p>7.40 m to 37.91 m - mostly lt ol-gy mottled to patchy text of v.f.g. dol-Carb, fl occurs perv in patches/dfmd bnds and itsl (~8%), often associated with pale r-br REflc?, streaks of lt br to pale r-br streaks of REflc?/mnz? also in dol mtx locly. gdmass has Nd/La ~1 with Nd ~2000-3000 ppm.</p> <p>fl is generally more abnt and in patches in top 20 m; fl occurs itsl throughout.</p> <p>11.65 m to 12.50 m - abnt fl in patches (~15-20%), minor intergrown pale r-br REflc, dol-Carb mtx is lt gy.</p> <p>20.50 m to 23.00 m - abnt lim coated fracs (lim ~2%).</p> <p>@27.10 m - 10 cm patch of broken ap clst with mnz? → TREO ~4%.</p> | | | overall | >1000 |
| | | | | | | | 4.07 - 38.00 | 950-1050 |
| | | | | | | | 38.00- 55.00 | 1400-1700 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 78.94 | 119.34 | dol-Carb | A/B-T | @30.20 m - 30 cm bnd of ap-rich dol-Carb (~10% ap). | | | | |
| | | | | 34.80 m to 35.55 m - abnt lt br and/or [sp?] mnz? intergrown with fl, trace lim (cc 8% mnz?). | | | | |
| | | | | 37.91 m to 43.38 m - mtx-sup brc, lt ol-gy to ol-gy ang 2 mm-3 cm dol-Carb clsts, few ap clsts of several cm (@41.98 m eg), mtx is ol-gy v.f.g., locly minor fl itsl. | | | | |
| | | | | 43.48 m to 55.00 m - wk bnd psd-brc with ol-gy , v.f.g. mtx and abnt lt br-or streaks of 2-3 mm (mnz?), locly minor fl itsl → Nd/La in 2-3, up to 1% Ce, Y 1600-7000 ppm (all in gdmass) → heavy zone. | | | 55.00-78.94 | ~1000 |
| | | | | similar zones from 62.00-63.50 m, 66.20-67.15 m, 68.20-69.00 m, 72.90-74.35 m in between is lt gy to lt ol-gy dol-Carb with minor itsl fl and few fl patches with minor intergrown pale r-br REflc. | | | 62.50-63.30 | 1600 |
| | | | | @58.10 m - 15 cm mass fl patch with trace intergrown REflc. | | | | |
| | | | | 64.80 m to 65.25 m - bnds of fl with abnt intergrown REflc. | | | | |
| | | | | end of unit is defined by change of overall colour, decrease in RA. | | | | |
| | | | | overall CPS is >1000. | | | | |
| | | | | <u>dol-Carb</u> | | | overall | 500-600 |
| continous change in colour from lt ol-gy y-gy (until ~95.00 m) to lt gy y-gy until end of unit. | | | 1st 3 m | 800 | | | | |
| text changes with colour from patchy-mottled with locly abnt fl patches (to about 95 m) to mod bnd psd-brc with abnt itsl fl, locly well mineralized with abnt REflc in bnds and itsl. | | | last 3 m | 300 | | | | |
| modal mineralogy: dol: 92%; fl: 4%; REflc: 3%; mnz: 1%; sul: traces; amph: traces; lim: trace. | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>78.94 m to 84.15 m - mottled to patchy text, lt ol-gy v.f.g. gdmass with locly abnt y-gy irregular dol-Carb clsts, abnt fl patches and minor fl itsl, in lt ol-gy gdmass lt br-gr streaks of 2-3 mm common (mnz?), v. late-stage fl qtz common, trace REflc (<< 1%)</p> <p>@79.15 m - dk gy v.f.g. 10 cm patch of sul with trace intergrown amph, minor euh py.</p> <p>84.15 m to 95.00 m - mottled, mnz? mineralized v.f.g. y-gy to lt ol-gy dol-Carb with trace fl in bnds/patches, last 2 ms have higher fl bnd amount with trace REflc - minor, transitional ctc to next section.</p> <p>~95.00 m to 119.34 m - mod bnd psd-brc, lt gy irregular dol-Carb clsts in lt ol-gy dol-Carb mtx or fl mtx, altd itsl fl in bnds, lt gy to lt ol-gy and v.f.g. to f.g., fl is mostly associated with pale r-br REflc?, which occur locly abnt.</p> <p>sections of highly minor, REflc-rich sections with REflc/mnz ~5-10%: 97.45-98.05 m, 98.70-99.10 m, 100.40-100.85 m, 106.80-108.00 m.</p> <p>112.60 m to 113.80 m - (partly covered by lim due to FZ), 118.85-119.35 m. REflc/mnz? mineralization.</p> <p>@95.15 m - 3 cm mass. fl bnd, not REflc - minor.</p> <p>100.80 m to 101.10 m - raised py content due to py blebs and units.</p> <p>102.20 m to 103.20 m - abnt bio/sul vnlets, no fl visible.</p> <p>v. late-stage dol fl qtz (py) vnlets throughout, more common in bottom half of unit.</p> <p>@104.10 m - pale r-br, 5 cm patch of REflc → 23% REE (11% Ce, 9% La)</p> | | | | |
| | | | | | @97.75 m - 47° | | | |
| | | | | | @100.50 m - 45° | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 119.34 | 140.20 | dol-Carb | B | <p>103 m to 115 m - minor natural, lim-coated fracs.</p> <p>107.57 m to 108.00 m - high REflc - minor intergrown with fl itsl and in 10 cm, mass bnd.</p> <p>111.90 m to 112.80 m - v. vuggy, broken lim and chl-rich dol-Carb → FZ, some vuggy small fracs continue to 114.10 m.</p> <p>115.25 m to 116.75 m - abnt v.f.g. fl/REflc? - minor late stage dol-Carb dykes, show layering/float bndg.</p> <p>116.80 m to 117.35 m - patches with abnt amph and minor py.</p> <p>@118.90 m - 2 cm bnd of mass REflc with blebs of fl.</p> <p>end of unit is based on the absence of pale r-br REflc, stable low radioactivity, continuous color and text, transition to next unit is gradational.</p> <p><u>dol-Carb</u></p> <p>lt gy to y-gy with p bnds.</p> <p>mostly well bnd v.f.g. to f.g. dol-Carb with ibd y-gy (mnz-rich) and lt p (caused by minor diss fl) and lt gy bnds, lower half of unit v. few p bnds and more ap-rich med gy bnds, few sul-rich bnds throughout.</p> <p>modal mineralogy: dol: 94%; fl: 2%; mnz: 3%; sul: 1%; amph: trace.</p> <p>119.34 m to 130.20 m - core is well bnd, mod y to dusky y bnds ibd with lt p bnds, which comprise trace to minor diss fl, y bnds are mnz - minor.</p> <p>130.20 m to 137.30 m - bnds become less defined and text becomes more mottled, fl vanishes, blotchy y-gy mnz-rich? dol-Carb and lt gy dol-Carb with minor sul in vnlets and bnds.</p> | <p>@106.70 m - 62°</p> <p>@121.95 m - bndg 45°</p> <p>@130.40 m - bndg 42°</p> | | constant | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 140.20 | 157.43 | - | BD | <p>last 3 m is bnd to mottled y-gy to med lt gy dol-Carb with minor fl in blebs and streaks.</p> <p>several late-stage vnlets throughout, either fl vnlet or qtz vns (@120.55 m, 123.80 m, 125.50 m).</p> <p>amph-rich sections with itsl amph ~5%: 123.60-123.80 m, 124.80-125.10 m.</p> <p>@122.40 m - few fl bnd with REflc - minor.</p> <p>@124.20 m and 124.50 m - 15-30 cm v.f.g. lt ol-gy late-stage dol-Carb dykes with sharp etc.</p> <p>@124.70 m - few mag blebs in sul-rich bnd.</p> <p>@130.50 m - bnd of bio/fsp?-rich WR with sharp, irregular ctcs to dol-Carb.</p> <p>@136.20 m - 5 mm py vnlet x-cut.</p> <p>end of unit is defined by onset of REflc min, change in overall colour.</p> <p><u>dol-Carb</u> v. lt gy to lt gy and pale r.</p> <p>hetero top half of unit is locky brc, locky psd-brc with min itsl REflc and ap and fl, lower half contains more bio in vnlets and is psd-brc with locky abnt REflc and min fl; f.g. to c.g.</p> <p>modal mineralogy: dol: 90%; cc: 2%; fl: 2%; REflc: 3%; ap: 2%; sul: 1%; bio/chl: trace.</p> | <p>@124.90 m - bndg 45°</p> <p>@138.10 m - bndg 36°</p> | | constant | 250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>140.20 m to 141.85 m - brc (clst-sup) of v. lt gy to y-gy v.f.g. to f.g. dol-Carb clsts of various sizes with locally minor pale r-br REflc itsl and locally med dk gy vnlets and min. itsl ap.</p> <p>@141.85 m - text is hetero, but dominated by psd-brc, large c.g. w to v. lt gy xtl dol grains in various mtxs, lt gy to lt gr-gy v.f.g. dol-Carb mtz dominates, sections of v.f.g. itsl REflc mtz: 141.85-143.05 m, 145.60-146.15 m, 149.40-149.90 m, 153.50-157.35 m, smaller sections of ~10 cm in between; itsl fl occurs only in wide-spaced bnds of 5-10 cm; bnds with itsl ap are rare.</p> <p>@140.40 m - 1 cm vuggy py vnlet</p> <p>@141.90 m - natural frac with 4 mm lim coating.</p> <p>143.10 m to 143.50 m - sections of psd-brc with minor itsl fl of ~8% (intergrown with REflc).</p> <p>144.66 m to 145.15 m - psd-brc with abnt 3-7 mm xtl dol grains with min itsl ap.</p> <p>@146.05 m - 6 mm qtz vn.</p> <p>146.40 m to 147.05 m - same as interval 143.10-143.50.</p> <p>150.40 m to 150.75 m - clst-sup brc with v. lt gy dol-Carb clsts and two gr-gy 5 cm chl clsts, bio abnt itsl.</p> <p>150.80 m to 151.85 m - clst-sup brc of aug 6-10 cm v. pale og dol-Carb clsts with abnt ap → but no REE (Ce ~1500, Y 500 ppm)</p> <p>152.00 m to 157.43 m - minor itsl cc in dol-Carb fizzes almost like cc-Carb, but colour and mineralogy is dol-Carb.</p> <p>end of unit is defined by sharp ctc to Glim.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 157.43 | 178.92 | WR | | <p><u>biotized WR with dol-Carb frags</u> dk gy to med gy.</p> <p>Glim is brc and consists mainly of v.f.g. fsp? which contains various amounts of itsl bio and min itsl cc throughout, vns and frags of unmineralized dol-Carb exist througout (~10%), frags of cc-Carb are rare.</p> <p>modal mineralogy: fsp: 63%; bio/phl; 15%; cc: 10%; dol: 10%; sul: 1%; amph: 1%.</p> <p>157.43 m to 161.90 m - abnt f.g. w to lt gr-gy dol-Carb vns with few patches of bio and abnt dol-Carb vnlets brcg the WR; abnt v.f.g. lt ol-gy late stage dol-Carb also present in vns and frags; in this section dol is ~20%, no itsl cc.</p> <p>cc-carb frags are w to gy-og pk, f.g. to m.g., no visible access minor, @162.60 m, 164.10 m.</p> <p>162.05 m to 164.70 m - v.f.g. dk b-gy amph-rich WR, minor dol-Carb clsts and cc vns 1-2 mm bio rim, no itsl cc.</p> <p>170.00 m to 173.20 m - f.g. to c.g. Glim consisting almost entirely of itsl cc and 2 mm- 1.5 cm pblsc phl xlts.</p> <p style="text-align: center;">EOH</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 21.03 m to 22.57 m - patchy to mass f.g. ol-gy F-Carb with perv fl ~3-5%, few late stage Carb dykes cutting, XRF indicates HREE enrichment. a lot of mass effect. | | | | ~1600 |
| | | | | 22.57 m to 29.91 m - mottled f.g. pale ol dol-Carb with ~6-8% fl patches and blebs with itsl mnz, abnt late stage Carb dykes cutting, XRF -> LREE enrichment. | | | | 1300-1600 |
| | | | | @ 25.68 m - some im coating on fracs. | | | | |
| | | | | 29.91 m to 30.96 m - mass to patchy ol-gy f.g. F-Carb with ~3.5% diss fl, lim on fracs, XRF indicates HREE-enrishment, few late stage Carb dykes. | | | | 1400 |
| | | | | 30.96 m to 31.53 m - mottled pale ol f.g. F?-Carb with ~8% fl in patches + itsl mnz, LREE enriched? | | | | |
| | | | | 31.53 m to 32.32 m - mottled to patchy ol-gy f.g. F?-Carb with few fl patches but mostly perv fl, some late stage Carb dykes. HREE enriched? | | | | |
| | | | | 32.32 m to 45.48 m - mottled pale ol f.g. F-Carb with ~8% fl in patches with itsl mnz? abnt late Carb dyke cutting lim cover on fracs, some ibd? or dykes of ends all of a sudden? | | | | 1400-1600 |
| | | | | 37.59 m to 38.67 m - brc heavy zone with ol-gy colour gdmass with lt REE enriched clsts (pale ol), XRF in gdmass up to 2% Y, also a pk ap clst @38.62 m ~2cm. minization - REE. | | | | |
| | | | | 42.87 m to 43.41 m - zoned dyke with f.g. heavy enriched F-Carb with abnt ang clsts and fl vnlt (crack healing). | | | | |
| | | | | 45.48 m to 48.70 m - f.g. ol-gy F-Carb with itsl/perv fl, and ~4 cm late stage Carb dyke cutting ~ parallel TCA, heavy enriched zone. | | | | |
| | | | | 48.70 m to 68.53 m - overall this interval is pale ol (less Fe indicator?) with ~6-8% fl in patches and itsl mnz?, also abnt f.g. gr xnt?-rich patches and stringers, optical compared to former zones a LREE but XRF and CPS indicate HREE enrichment especially at the f.g. gr patches, late stage Carb dykes are common. | | | | 1600 |

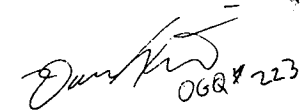
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|------|---------|-----|
| | | | | | | | DEPTH (m) | CPS | | |
| | | | | <p>67.22 m to 68.53 m - v. abnt lim on fracs and healed fracs</p> <p>68.53 m to 70.06 m - peppered, homo, ~0.1-0.2 cm fl+itsl mnz? clsts? in a pale ol f.g. dol?-Carb gdmass, XRF indicates HREE enrichment.</p> <p>70.06 m to 109.04 m - large brcd interval with ~0.2 cm to 4.0 cm ang clsts of mostly dol-Carb, gdmass consists of fl+itsl r mnz? with Nd=La and relatively high y or gr xtl n F-Carb (also HREE enriched, most of the clsts seem lt enriched, ratio clsts to gdmass varies but is usually ~60-70% clsts to 30-40% gdmass.</p> <p>fracs especially at top of interval to 88 m are coated or healed with lim, vugs and former fracs were healed by dol-Carb +fl (unminised), fl in this interval ~8%.</p> <p>100 m to 102 m - v. abnt infilled (fl+Carb+qtz) vugs.</p> <p>overall barely late stage Carb dykes cutting but some in brcd (or big clsts?) sections where clsts are not sharp and but more diffusive probably an earlier brcn event, late crack healing fl is cutting all brcs.</p> <p>109.04 m to 122.93 m - bnded fl ~10% with abnt itsl r-br mnz?, y-gy dol?-Carb clsts in a light gy to pale ol dol-Carb gdmass, bndg ~ 50° TCA, fl in stringers and rarely in big up to 4.5 cm patches, no straight edges at clsts and patches everything looks partly dissolved and/or mechanically eroded.</p> <p>RA is lower, XRF indicates more lt enrichment.</p> <p>122.90 m to 124.66 m - brc, gdmass sup, ang ~2cm up to 6 cm, down to 0.1 cm, clsts of various lithos, fl trace only in some clsts, lower CPS.</p> <p>124.66 m to 125.27 m - brc again same as prev but now a 21 cm mag clst? at top of interval with abnt small suls at the outside + og needley min (contains probably some y accessory to XRF), also ~2000-4000 ppm Nb in mag.</p> <p>beside the clst high amount of secondary crack healing fl cutting the brc, low CPS</p> | | | 1400-2000 | 1000 | 600-700 | 700 |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|-------------------------------|
| Property: Eldor Property | Easting (m): 536219.53 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 11, 2011 | Downhole Survey: No |
| Expl. Area: Ashram | Northing (m): 6312089.42 | Rig Type: Zinex A5 | Date Completed: Sep 13, 2011 | Survey Tool: N/A |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: Drillers ended hole and |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 70.16 m | pulled casing on no authority |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----------|-----------|
| | | | | | | | DEPTH (m) | CPS | |
| 2.22 | 70.16 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>lt gy to lt ol-gy, ol-gy in sections.</p> <p>text, colour and mineralogy are bi-modal in this unit. mostly mottled to patchy text with min to abnt fl itsl and in patches, varying amounts of fine itsl streaks of Fe-rich? carbonates in lt gy dol-Carb gdmass. result in colours varying from lt gy to lt ol-gy, fabric of grains is suc and v.f.g., common sul (bio?) healed cracks, trace REflc associated with fl patches, sul occur also as blebs, abnt (layered v.f.g. late-stage dol-Carb vug of few sections of 0.5-1.5 m have ol-gy colour, the text is homo to slightly mottled caused by few amounts of itsl fl, mostly xtl dol grains, f.g., enriched in HREE, these sections are more common in first 30 m; (lt gy sections are LREE-enriched, TREO ~1.5-2% ol-gy sections are HREE-enriched, TREO ~0.8-1.3%. very late-stage fl vnlt common throughout lim c coated fracs common).</p> <p>modal mineralogy - dol (+other carbonates) 95%; fl 4%; sul 1%; REflc trace; qtz/bio trace.</p> <p>2.22 m to 3.05 m - is incasing, first 20 cm are bldrs of w to v. lt gy unmineralized dol-Carb, rest of incasing is same litho as the following unit.</p> <p>2.22 m to 16.50 m - mostly homo to slightly mottled xtl f.g. ol-gy dol-Carb, fl is trace min overall and occurs rarely in ol-gy gdmass, some sections are lt gy to lt ol-gy and exhibit abnt fl in patches and itsl giving them a mottled text (these sections are v.f.g. and suc) and occur as follows: 9.50 m to 9.95 m, 12.80 m to 13.00 m, uncommon fl patches in ol-gy gdmass @4.00m, 4.35 m.</p> <p>16.50 m to 20.95 m - lt gy to lt ol-gy v.f.g. suc dol-Carb with abnt itsl and patchy fl, abnt late-stage dol-Carb dykes, varying amount of itsl ol-gy streaks.</p> | | | 2.22-35 | 1700-2000 | |
| | | | | | | | | 35-76.16 | 1400-1700 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>20.95 m - sharp ctc to pale ol xtl n f.g. dol-Carb text is again homo to slightly mottled with trace itsl fl and min sul? healed cracks, this section continues to about 24.50 m, transition in next section is gradational.</p> <p>~24.50 m to 27.40 m - v. homo lt ol-gy to lt gy (in vicinity to last section lt ol-gy, from 25.60 m lt gy) v.f.g. dol-Carb, text is peppered with diss fl blebs.</p> <p>27.40 m to 46.75 m - mostly v.f.g. suc lt gy to ol-gy (depends on amount of ol-gy itsl streaks) with perv fl itsl and in patches, trace sul blebs, min. sul/bio? healed cracks.</p> <p>31.00 m - 25 cm bnd of v. homo lt gy peppered, v.f.g., dol-Carb with diss fl blebs, ctcs are gradational to text.</p> <p>33.10 m - sharp ctc to ol-gy xtl n f.g. dol-Carb, homo to slightly mottled text with very few itsl fl and minor healed cracks, continues to 33.45 m, then sharp ctc to lt gy pepper text (as above) and @ 33.80 m again sharp ctc to ol-gy xtl n f.g. homo to slightly mottled dol-Carb.</p> <p>39.30 m - avg 3 cm fl clsts, almost rectangular, sharp edges, but too zig-zag to be xtl edges, clst is broken, in surrounding gdmass are equigranular 1 mm fl clsts.</p> <p>48.50 m to 50.50 m - increased sil content in blebs and healed fracs.</p> <p>45.00 m to EOH - lt ol-gy to y-gy colour dominates text is still mostly mottled, mass fl patches are common, grains are v.f.g. and suc, late-stage dol-Carb dykes are less common</p> <p>61.10 m - 7 cm mass fl patch with intergrown REflc.</p> <p style="text-align: center;">EOH</p> | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536219.11 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 13, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312089.02 | Rig Type: Zinex A5 | Date Completed: Sep 20, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 499.26 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: P. Schmidt | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 2.19 | 226.19 | | | <p>fl mnz? (F-) dol-Carb (A-zone?)</p> <p>v. hetero interval, abnt late stage events and indications (displacement of vns and dykes, folding of dykes, brcn) of high tectonic influence, texts vary widely and will be documented but dominately mottled, patchy, and brcd.</p> <p>unit could probably divided in 2 seperate an upper iron-richer (indicated by colour of XRF) and a lower dol dominated but since each occurs in the other and text indicates in the other and text indicates that the iron-rich Carb intruded in the dol-Carb they are described as one unit and occurrence of F-Carb will be pointed out. RA in whole unit is relatively high with low of 1200 CPS and high of 2500 CPS, high CPS seems to correlate to F-Carb, F-Carbs are usually dk gr-gy to ol-gy and m.g. (xtln). itsl fl is common, feels heavy → high density, barely cut by late stage Carb, XRF indicates spotty HREE enrichment at various but overall low grade (~1%) dol-Carbs are pale ol to lt gy with little lower RA and XRF indicates more LREE enrichment but better grades (2+%), ore mins (mnz?) are mostly in patches together with fl, mnz?. beside the intrusion of the F-Carb several late events are noted: 2 kind of late stage Carb dykes cutting each other but same mineralogy, late crack healing fl ± qtz, qtz and y dol-Carb (also cutting F-Carb), lim cover frags. mineralization</p> <p>1.95 m to 2.20 m - bldr/different litho → GR, unmineralized dol-Carb.</p> <p>2.20 m to 5.18 m - patchy/mottled dol or F-Carb, text and f.g. size and more late events which is common for dol-Carb while the dk gr-gy colour indicates F-Carb. fl and mnz? patches are common.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>5.18 m to 9.56 m - F-Carb mass to patchy xtlIn, dk gr-gy colour, some late stage Carb dykes visible but rare, ibd or dyke with ol-gy f.g. F?-Carb at outside and clsts surrounded by fl in inside @8.31-8.53 m, last 20 cm of sample fracd with lim coating.</p> <p>9.56 m to 13.16 m - F-Carb, patchy pale ol, m.g. xtlIn, lodly cut by 2 different types of late stage dykes cutting and some fl and mnz? patches lim coating on fracs.</p> <p>13.16 m to 14.03 m - dol?-Carb, f.g. lt gy to pale ol dol-Carb with stringers of ukn gr mins (mnz?).</p> <p>14.03 m to 17.64 m - F-Carb, almost mass with few fl vnlets cutting and fl patches (diss).</p> <p>17.64 m to 20.50 m - dol?-Carb f.g. patchy fl with itsl r-br mnz?</p> <p>20.50 m to 25.35 m - dk gr-gy f.g.-m.g. F-Carb, patchy to mass fl and different gr colours make it appear patchy, @23.80 m XRF indicates up to 4% Y over 15 cm.</p> <p>25.35 m to 26.82 m - dol?-Carb, peppered text (brittle ~0.1 cm fl blebs).</p> <p>26.82 m to 35.97 m - zone with several F-Carb dykes? cutting dol?-Carb ~60% dol?-Carb, ~40% F-Carb in dol-Carb again abnt fl stringers and patches with itsl mnz?</p> <p>overall there appears considering colour and text the end of the iron-rich Carb and lt gy to pale ol Carb dominates now, also a drop in RA noticable.</p> <p>35.97 m to 42.75 m - mottled text with fl in patches and vns ~8% of rock, abnt late stage Carb dykes and displacement of Carb dykes, also abnt fl (crack healing).</p> <p>42.75 m to 44.13 m - patchy dol-Carb ~3% fl and gr ukn mins (mnz?) in stringers and patches between dol-Carb.</p> <p>44.13 m to 46.08 m - brcd dol-Carb ~2 cm dol, fl and bio ang to sub-ang clsts with bio ± mag and trace amph (b) gdmass 2 generation of late stage Carb dykes cutting and cutting each other.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>46.08 m to 46.92 m - broken up fault? v. thick lim cover, no other mins visible, but XRF indicates some Y ~3000 ppm.</p> <p>46.92 m to 48.76 m - patchy gr stringers and itsl mnz? minor fl.</p> <p>48.76 m to 50.44 m - brcd dol-Carb with bio and ± mag gdmass, minor amph.</p> <p>49.52 m to 50.07 m - dol?-Carb with ~5%-10% fl in diss stringers dyke cutting.</p> <p>50.44 m to 54.52 m - patchy fl and itsl REflc? patches ~8% some late stage Carb dykes, lim on fracs.</p> <p>51.41 m to 51.95 m and 52.57 m to 53.36 m - overprint of iron-rich fluids keeping text but replacing dol → Fe and lower the Y from ~7000 to ~1500 also no or less fl.</p> <p>54.52 m to 64.60 m - lt gy dol-Carb with mostly peppered text changing into mottled/patchy.</p> <p>@59.50 m - peppered through fl and itsl REflc?/mnz? blebs?</p> <p>57.00 m to 58.86 m - a ~5 cm wide late stage Carb dyke with ~30% fl and mnz? cutting parallel to rock.</p> <p>some zones within interval seem to have again Fe overprint → colour now more gr and less fl and Y and XRF abnt crack healing fl (not mineralized).</p> <p>64.60 m to 66.56 m - brc. f.g. fl and itsl br min brcg dol-Carb, seems almost like a dyke.</p> <p>66.56 m to 77.17 m - mass with some patchy spots, interval seems barely dfmd just abnt crack healing fl indicates tectonical influence, some fl and mnz? patches, dol-Carb → lt gy to ol.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>77.17 m to 92.07 m - interval has several zones rich in fl and itsl mnz? in patches and stringers ~8% of interval, top seems iron-richer due to slightly gr colour, some late stage Carb dykes cutting. abnt crack healing fl and qtz vnlets mostly 90° TCA.</p> <p>@77.50 m - a ~5 cm mag and sul bnd.</p> <p>92.07 m to 99.79 m - v. homo almost mass dol?-Carb with few diss and bleby fl patches.</p> <p>@98 m - a 16 cm dyke? of with sub-rnded ~0.5 cm clsts cutting, minor late stage Carb dykes cutting.</p> <p>99.79 m to 102.91 m - dol-Carb with abnt gy micro-sul? bnds, minor to trace fl, some ~10 cm intervals with y F?-Carb overprint?</p> <p>102.91 m to 112.98 m - dominantly F?-Carb with y-gy colour, minor ~3% fl and itsl mnz? patches and blebs, some gr min (mnz?) in diss patches → replaced? fl during Fe overprint?</p> <p>some ~0.2 cm dol-Carb crust around few clsts @104 m with final fl infill in bigger vugs, some @105.90 m.</p> <p>112.98 m to 124.73 m - dol-Carb patchy to mottled with fl and gr ukn mn defining patches and stringers and vnlets of mag.</p> <p>120.09 m to 120.67 m - iron-rich Carb.</p> <p>121.25 m to 121.67 m - abnt ~0.5 cm w dol-Carb dyke.</p> <p>124.73 m to 226.19 [126.19?] m - brc. not separate litho due to some mineralogy RA and colour, clsts are from unit, late event that cuts late stage dykes but is cut by crack healing fl, next unit is brcd as well.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|------|-----------|
| | | | | | | | DEPTH (m) | CPS | |
| | | | | <p>124.73 m to 151.13 m - brc (gdmass-sup - clst-sup) clsts are in avg 1-3 cm but some are smaller than few mm and some are bigger than 5 cm, all are ang or sub-ang, composition of clsts is dol-Carb f.g. pale ol to lt gy some with fl, gdmass is f.g. locky p due to itsl fl, if no fl it is lt gy to pale ol. locky w secondary dol-Carb, abnt late crack healing fl and minor qtz vnlets.</p> <p>148.62 m to 149.35 m - ibd? of not brcd dol?-Carb (A zone).</p> <p>151.13 m to 157.27 m - brc (clsts-sup) interval with brcd but still in place. fl mnz dol (lt gy) unit with fl patches and stringers ~10% gdmass, minor secondary w dol-Carb.</p> <p>157.27 m to 172.34 m - brc, F?-Carb clsts and gdmass are relatively dk compared to other intervals in the brc zone, all f.g. dk gr-gy, RA slighty higher (1400 CPS) v. abnt secondary w dol-Carb and fl and qtz as infill in vugs and as infill in cracks, XRF indicates higher iron avg ~13% in this interval, overall clsts look almost in place, clst-sup.</p> <p>172.34 m to 183.65 m - gdmass-sup brc, gdmass is f.g. dol-Carb with clsts of different lithos and high porosity due, some of the clsts are withd out and/or are replaced, Nb-Ti oxide(Nb rt?) clst are to XRF with v. high porosity, fl and Carb in replaced clst, lim in replaced/dissolved clst, sul infill in vugs are common.</p> <p>180.72 m to 181.12 m - ibd? of unbrcd fl-rich (~15%) and lt gy dol-Carb (B?-Zone).</p> <p>183.65 m to 194.29 m - brc (between clst and gdmass-sup) clsts are all? same litho a fl-rich f.g. pale ol (A-Zone?) Carb , ~10% fl, again qtz and fl and dol-Carb (w) infill in vugs.</p> <p>186.41 m to 187.22 m - ibd of unbrcd A-Zone.</p> <p>194.29 m to 201.30 m - hardly brcd lt gy fl (~5%) dol-Carb with mnz?, bnded ~35" TCA, high CPS ~1000 indicating (A-Zone).</p> | | | 1000-1200 | 1400 | 1200-1400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 226.19 | 313.89 | - | | <p>201.30 m to 226.19 m - gdmass-sup brc ratio to gdmass is 1:3, composition of clsts are mostly y-lt gy dol-Carb, fl-rich clsts and late Carb dyke Carb clsts, gdmass is f.g. dol?-Carb lt gy locly diss fl and r-br REflc? causing p-r colour, minor small Nb and Ti, clsts, RA is decreasing from 800-600 towards end of interval.</p> <p>@216.50 m - 220 m zone with several fracs and potential FZ with abnt sul (po and sph) infill @217.30 m.</p> <p>end of unit due to major mineralogy change indicated by colour from iron-rich dol to dol-sup by XRF. RA is now in the 800 CPS range at max.</p> <p><u>mnz? fl dol-Carb (B-zone?)</u></p> <p>unit is low in RA, compared to upper unit, text varies mostly between bnded psd-brc and patchy. main mineralogy is f.g. dol-Carb (75-90%) fl (2-10%), y-gy f.g. dol and mnz? gdmass, trace micro-suls, qtz-trace as secondary infill in vugs, locly w dol-Carb clsts?, late crack healing fl vns cutting through whole unit top of unit seems to be more affected by tectonics than lower unit, some cracks and bnds are with b-gr amph ~ trace.</p> <p>226.19 m to 244.29 m - psd-brcd/bnded fl-rich interval (~8-10%) in stringers and patches often with itsl mnz?, abnt w dol-Carb clsts?, some qtz infill in vugs abnt crack healing fl vns, ~500 CPS. maybe still brc zone but all in place.</p> <p>244.29 m to 247.96 m - dyke? of brc ~2-3 cm ang clsts, gdmass-sup, gdmass is f.g. pale ol dol-Carb.</p> <p>247.96 m to 249.23 m - ibd? rxn zone? of Glim with itsl alb? ~30%, some phenocrysts of w dol-Carb.</p> <p>249.23 m to 268.67 m - psd-brc/patchy/bnded hetero interval with quick changes in text, minor w dol-Carb clsts in a f.g. dol and mnz? gdmass, some fl patches with itsl mnz, bnded ~25°-30° TCA is indicated by y gy stringers, few micro-sul bnds, gr amph amounts, qtz in vugs and together with crack healing fl.</p> <p>268.67 m to 285.95 m - fl-poor, mnz?-rich dol-Carb, abnt qtz as infill in vugs, from 278-278.81 m v. y-gy mnz?-rich interval with XRF indicating up to 12% REE all lt enriched.</p> | | | 600-800 | |
| | | | | | | 200-500 | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 313.89 | 371.67 | - | | <p>@283.75 m - vugs with qtz and fl and dol infill and a gal patch.</p> <p>285.95 m to 313.89 m - interval with v. abnt micro-sul bnds and patches locly (~2-3%), y-gy dol and mnz? are not as abnt visible but XRF indicates still over 2% REE so mnz? is probably itsl, w dol-Carb clsts are trace.</p> <p>311.00 m to 313.89 m - bio infill in frac and itsl bio.</p> <p>end of unit due to first appearance of visible REflc after a Glim rxn.</p> <p><u>bio mnz? REflc fl dol-Carb (B-BD transition)</u></p> <p>unit is v. hetero, mineralogy changes quick, WR? (fsp and bio rxn rim) clsts are common but less than 2% of total unit, REflc is trace but flakes are in all lithos, B-Zone type in beds or dykes, suls and micro-suls are common in all units but usually trace amounts, RA v. low ~200-300 CPS, WR clsts are ang and often have concentric cracks around them indicating increasing volume due to replacement?, they probably.</p> <p>313.89 m to 316.64 m - bio-rich interval with y-gy f.g. dol and mnz? gdmass with v. abnt frac infilled with bio and or REflc (trace), REflc also in patches not? related? to frac, bio ~1% but a mass bio and minor pk rhodochrosite? @313.89-314.29 m.</p> <p>316.64 m to 318.94 m - patchy (wk) to mass y-gy gdmass with few itsl REflc (trace).</p> <p>318.94 m to 323.10 m - lt gy dol-Carb with minor y-gy mnz? and dol stringers, trace REflc, abnt bnds and vnlets of micro-suls.</p> <p>323.10 m to 348.17 m - brc, w to lt gy dol-Carb with v. abnt bio infill, ~10% WR clsts (ang) from 0.2 to 3 cm, some are high porous and or replaced, unaltd clsts are y-gy f.g. hard → fsp?, itsl REflc in trace amounts, v. abnt sul and micro-suls in the frac, WR clsts have bio rxn rim and often, radiating cracks around them → volume increase?</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 371.67 | 416.00 | - | BD | <p>348.17 m to 366.07 m - patchy/blebby lt gy dol-Carb clsts? with aph (trace?) in a y-gy mnz? and dol f.g. gdmass, blebs of fl and patches are common, some minor itsl REflc, minor micro-sul bnds.</p> <p>@352 m - a 7 cm patch of high porosity filled with lim, most frac have lim coating, gr amph blebs are common.</p> <p>366.07 m to 371.68 m - same as prev but ~5% micro-sul bnds and patches.</p> <p>end of unit due to no more or only v. little y-gy dol and mnz? gdmass.</p> <p><u>REflc dol</u></p> <p>main min is w to lt gy dol-Carb m.g. to f.g. ~70-85% of unit, REflc are now more abnt through whole unit but rarely over 2%, micro-sul bnds and vnlets are common throughout and follow or heal usually frac and former frac zones, whole unit is relatively high porous often looks like withd at clsts in former unit, fl is trace and only noticable vug infill.</p> <p>383.86 m to 385.22 m - ibd? with some y-gy mnz?</p> <p>391.29 m to 396.47 m - v. abnt up to 10% micro-sul bnds.</p> <p>399.96 m to 404.97 m - bnded (wk) 65° TCA.</p> <p>406 m to 416 m - v. micro-sul rich.</p> <p>end of unit because bio and fl (patches) and WR clsts are now common.</p> | | | | 200-300 |
| 416.00 | 438.06 | - | | <p><u>fl WR bio dol-Carb (BD-WR transition)</u></p> <p>unit v. hetero in mineralogy, and will be descending bnd in the intervals, low RA, seems to be a mix in between to units therefore transition zone.</p> <p>416.00 m to 419.41 m - micro-sul and bio-rich, decreasing amounts of REflc (1% to trace), minor WR clsts.</p> | | | | 300-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 438.06 | 498.66 | - | | <p>419.41 m to 424.18 m - m.g. dol-Carb with trace amounts of REflc, minor micro-sul bnds.</p> <p>423.28 m to 423.73 m - ibd? of big (3 cm) fl patches in dol-Carb.</p> <p>424.18 m to 429.30 m - interval with v. abnt ang up to 2 cm WR clsts mostly reacted to bio.</p> <p>429.30 m to 430.59 m - bio and fl patches ~60% of interval with ~40% dol-Carb, itsl cc in bio.</p> <p>430.59 m to 433.68 m - dol-Carb ~95° with trace REflc, minor fl @432.21 in bnds, last 50 cm of interval more abnt c.g. bio, fl and itsl cc.</p> <p>433.68 m to 438.06 m - bio ~30-40% fl ~10%, cc ~30%, dol-Carb 20-30% bio is euh f.g. to c.g.</p> <p>end of unit due to major gdmass min change from dol to cc.</p> <p><u>cc-Carb</u> m.g. mostly pk cc with various amounts of sil mostly v.c.g. bio and b amph, mag is a common accessory min but rarely exceeds 3%, text is mottled to prtc, ap is common in intervals with high concentration of amph, pych in trace amounts, suls are trace.</p> <p>438.06 m to 442.49 m - bio ~40%, w cc ~50%, fl ~3%, sul trace, text mottled, seems to be still a mix of former unit and cc-Carb (by text).</p> <p>440.29 m to 440.62 m - REflc mineralized dyke.</p> <p>442.49 m to 444.73 m - cc-Carb with ~20-25% sil mins dominantly bio.</p> | | | | 200-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 498.66 | 499.26 | - | | <p>444.73 m to 462.98 m - cc-Carb intervals with several dykes of dol-Carb cutting @ 446.69-447.55 m, 448.25-448.68 m, 449.04-449.41 m, 451.45-452.87 m, 453.54-453.91 m, 457 m (10 cm wide), 459.78 m to 461.15 m. text in the cc-Carb is prtc (bio c.g. xtls) the dykes are mass (f.g).</p> <p>462.98 m to 467.64 m - cc-Carb with two intervals of Glim? from 466.47 m to 467.63 m and 463.43 m to 463.96 m both with itsl cc and suls cc-Carb again prtc text.</p> <p>467.64 m to 468.41 m - v. si (bio ~60%) rich c.g. prtc.</p> <p>468.41 m to 475 m - prtc text cc-Carb with ~30% si mins.</p> <p>475 m to 498.66 m - cc-Carb with abnt amph and bio bnds/dykes? now abnt rnd olv? replaced amph patches ~0.5 cm as aggregates.</p> <p>end of unit due to major min change cc out now alb?</p> <p><u>WR</u></p> <p>v. short small unit, could have been included in former unit as inbed but due to the current observation that this kind of WR is usually between Ashram and the cc-Carb and now it comes within or after cc-Carb it will be broken out.</p> <p>bio and b amph in or with w alb all v.f.g. a dol-Carb dyke is cutting @ 498.86-498.92 m, suls are common.</p> <p style="text-align: center;">EOH</p> | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536123.32 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 11, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312256.39 | Rig Type: Discovery I | Date Completed: Sep 14, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 212.45 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-------------------|------------------|--|---|---------|-------------------------|----------------------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.00 | OVB | - | <u>Ovb</u> | | | 3.00 | 540 |
| 3.00 | 12.75 | dol-Carb (Ferro?) | - | <p><u>dol-Carb (heavy zone?)</u></p> <p>colour - ol-gy, mod ol-br (5Y 4/1, 5Y 4/4)</p> <p>mineralogy - dol 94%, f.g., anh; fl 3%, f.g., anh; py 2%, f.g., suh; mnz 1%, v.f.g., anh; qtz trace, v.f.g., anh.</p> <p>3.00-12.75 m - alt, ox, 5YR 5/6, frac-rel, 60-80%</p> <p>3.00 m to 4.71 m - mottled dol-Carb psd-brc; perv fl ~10% + perv v.f.g. mod br (5YR 3/4) REflc? Mnz? ~3%. rare brittle frac qtz veins ± fl, core x-cut v.f.g. lt ol-gy dol-Carb dykes.</p> <p>4.71 m to 12.75 m - hetero F?-Carb psd-brc; common to abnt x-cut v.f.g. ol-gy to mod ol-br F?-Carb dykes. f.g. to m.g. anh to suh dol grains in v.f.g. ol-gy to mod ol-br ferro? carbonate ± mnz and fl and py mtx. common brittle frac qtz vns and hydrothermal qtz pockets ± fl core and f.g. drusy dol rim. hydrothermal pockets may develop colloform bndg around brcd clsts.</p> <p>RA - min 540 CPS; max 1400 CPS; avg 1200 CPS.</p> | | | 6.00 9.00 12.00 | 1300 1250 1200 |
| 12.75 | 23.74 | dol-Carb | - | <p><u>fl-dol-Carb (A → A-B trans?)</u></p> <p>color - lt ol-gy, ol-gy (5Y 5/2, 5Y 4/1)</p> | ctc @12.75 m grad, colour lightens, CPS ↓ | | 15.00 18.00 21.00 | 800 640 690 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|---|---|-----|
| | | | | | | | DEPTH (m) | CPS |
| 23.74 | 40.97 | dol-Carb | - | <p>mineralogy - dol 93%, f.g., anh; fl 5% f.g., anh; mnz 1%, v.f.g., anh; py 1% f.g., suh; qtz trace, v.f.g., anh; lim trace, v.f.g., anh.</p> <p>12.75 m to 20.50 m - patches of perv wispy fl with v.f.g. mnz over interval. common x-cut v.f.g. lt ol-gy dol-Carb dykes; common brittle frac qtz vns ± fl and hydrothermal qtz pockets ± f.g. drusy dol rim. lim coatings on natural frac or vug surfaces. hetero → overprint psd-brc, locly mass apperance.</p> <p>20.50 m to 23.74 m - dykes of mtx-sup dol-Carb brc x-cut or compose interval. clsts are dominantly ang to sub-ang, few sub-rnded. diss or patchy fl through mtx and diss f.g. suh py, rare qtz pockets. clsts dominantly dol-Carb frags. brc, mtx-sup, f.g. to c.g. ang to sub-rnded clsts</p> <p>RA - min 500 CPS; max 1220 CPS, avg 775 CPS.</p> <p><u>fl dol-Carb (A-B trans?)</u> colour - lt ol-gy, pale y-br (5Y 5/2, 10YR 6/2)</p> <p>mineralogy - dol 87%, f.g., anh; fl 10%, f.g., anh; mnz? 3%, v.f.g., anh; py 1%, f.g., suh; qtz trace, v.f.g., anh; lim trace, v.f.g., anh; REflc trace, v.f.g., anh</p> <p>23.74 m to 40.97 m - perv v.f.g. to f.g. fl ± v.f.g. dkr r-br (10R 3/4) mnz? REflc? over interval. common x-cut v.f.g. lt ol-gy to ol-gy dol-Carb dykes. lim coatings on natural frac or vug surfaces, also occurs as vug infill. perv itsl fl and dol-Carb mottles often form irregular bndg patterns with no preferred orientation. rare x-cut brittle frac qtz fl vnls.</p> <p>28.14-28.33 m, 28.93-29.08 m - large x-cut v.f.g. lt ol-gy dol-Carb dykes.</p> <p>35.70 m to 40.97 m - dol-Carb proximal to qtz-fl vnls or v. rare qtz hydrothermal pockets appears ltr in colouration, increased qtz content? bleaching?</p> <p>39.45 m to 40.97 m - decreased fl content of dol-Carb, brcd patches → f.g. to c.g. dominantly ang to sub-ang dol-Carb clsts sup by v.f.g. carbonate ± py and fl and qtz mtx.</p> | <p>ctc @23.74 m, irregular, text change.</p> <p>23.47 - 40.97 m mottled, irregular bndg</p> <p>ctc @ 40.97 m grad, ↓ fl</p> | <p>24.00</p> <p>27.00</p> <p>30.00</p> <p>33.00</p> <p>36.00</p> <p>39.00</p> | <p>740</p> <p>780</p> <p>750</p> <p>640</p> <p>620</p> <p>850</p> | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|---|---------------------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 40.97 | 49.55 | dol-Carb | - | <p>RA - min 540 CPS; max 880 CPS; avg 740 CPS.</p> <p><u>dol-Carb (A-B trans?)</u> colour lt ol-gy, y-gy (5Y 5/2, 5Y 7/2)</p> <p>mineralogy - dol 96%, f.g., anh; fl 3%, f.g., anh; py 1%, f.g., suh; qtz trace, v.f.g. anh; mnz trace, v.f.g., anh; lim trace, v.f.g., anh.</p> <p>40.97 m to 49.55 m - patches of perv itsl fl ± v.f.g. dk r-br mnz? REflc?. lim occurs as a vug infill, rarely found on frac surfaces; few x-cut v.f.g. dol-Carb dykes relative to overlying unit. v. rare hydrothermal qtz pockets and brittle frac vnlt, some hydrothermal qtz pockets have fl core and f.g. drusy dol rim.</p> | ctc @ 49.55 m sharp 35° TCA, LW ctc of Glim dyke? | mottled psd-brc, locky mass apperance | 42.00 | 750 |
| | | | | 45.00 | | | 600 | |
| | | | | 48.00 | | | 820 | |
| 49.55 | 68.70 | dol-Carb | - | <p>44.81 m - ~1cm qtz vn.</p> <p>49.00 m to 49.28 m - sul-phl stringers and sutures.</p> <p>49.28 m to 49.55 m - x-cut Glim dyke? sharp ctc, up ctc 60° TCA, lw ctc 35° TCA. m.g. each up diss throughout Glim.</p> <p>RA - min 550 CPS; max 1000 CPS; avg 800 CPS.</p> | | | | |
| | | | | <p><u>fl-dol-Carb (A→ A-B trans?)</u> colour - lt ol-gy, med lt gy (5Y 5/2, N6)</p> <p>mineralogy - dol 92%, f.g., anh; fl 5%, f.g., anh; py 1%, f.g., suh; mnz 1%, v.f.g., anh; lim 1%, v.f.g., anh; phl trace, f.g., suh; qtz trace, v.f.g., anh.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 68.70 | 75.50 | dol-Carb | A/B-T | 49.55 m to 68.70 m - perv v.f.g. to f.g. itsl fl ± v.f.g. dk r-br mnz? REflc? over interval occurring as patches or wispy bnds. perv itsl fl and dol-Carb mottles commonly form irregular bndg, no apparent preferred orientation. lim coatings on natural fracs and vugs, common as vug infill; increased intensity of lim staining. abnt x-cut v.f.g. lt ol-gy to ol-gy dol-Carb dykes. dykes of f.g. ol-gy to mod ol-br F?-Carb over interval → coincide with CPS ↑. sparse brittle frac qtz ± fl vnlt. | ctc @ 68.70 m grad, text changes, brittle features | hetero → mottled psd-brc, irregular bndg | 51.00 | 830 |
| | | | | 51.24 m to 51.35 m, 51.70 m to 51.92 m, 60.89 m to 61.13 m, 61.47m to 61.62 m, 64.18 m to 64.81 m - lenses or dykes of mod ol-br to ol-gy f.g. F-Carb?, XRF - Nd:La, typically 2:1 or greater. | | | 54.00 | 740 |
| | | | | 53.69 to 54.00 m, 61.27 to 61.50 m, 62.40 to 62.60 m, 66.00 to 66.15 m - mod to intense lim alt, dk r-br to dusky red (5K 3/4) lim staining, common to abnt infilled or coated mm vugs. | | | 57.00 | 800 |
| | | | | 58.18 m to 58.23 m - x-cut lt ol-gy v.f.g. dol-Carb dyke with entrained bred clsts, stylonitic ctc margin @ 60.53 m. | | | 60.00 | 750 |
| | | | | 63.50 m to 64.00 m - patches of hydrothermal brec → f.g. to dominantly m.g. or c.g. ang to sub-rnd lt ol-gy dol-Carb clsts with itsl fl and qtz and dol. | | | 63.00 | 880 |
| | | | | 62.53 m to 62.57 m - x-cut fl qtz vn? @ 20° TCA, appears to pinch out in dol-Carb. | | | 66.00 | 700 |
| | | | | 64.81 m to 68.70 m - decreased fl ± mnz? REflc?, zones of abnt phl and sul sutures? stylonites? | | | | |
| | | | | RA - min 670 CPS; max 1060 CPS; avg 820 CPS. | | | | |
| | | | | <u>brc fl dol-Carb</u> colour - lt ol-gy, ol-gy (5Y 5/2, 5Y 4/1) | | | 69.00 | 750 |
| | | | | mineralogy - dol 93%, f.g., anh; fl 5%, f.g., anh; py 1%, f.g., suh; phl 1%, f.g., suh; qtz trace, v.f.g., anh, lim trace, v.f.g., anh; mnz trace, v.f.g., anh. | | | 72.00 | 580 |
| | 75.00 | 900 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|--|--|--------------------------------------|--|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 75.50 | 93.50 | dol-Carb | A/B-T → B | 68.70 m to 75.50 m - brittle and brcd fl-dol-Carb; transition from up ctc → development of wk fl ± qtz stockwork → clst-sup brc. clsts are f.g. to c.g., ang to sub-rnded with itsl v.f.g. dol ± suls x-cut by fl ± qtz stockwork. intense brecciation from 72.40 m to 73.49 m → zone bounded? by x-cut Glim @ 72.34-72.40 m, 73.46-73.49 m, both @ ~50° TCA. some clsts in zone (72.40-73.49 m) none stylolitic margins; stockwork fill proximal to Glim → py sul phl ± fl ± qtz. lim coating or infill on fracs or vugs respectively becomes rare below 72.34 m; v. rare x-cut lt ol-gy v.f.g. dol-Carb dykes. | ctc @75.50 m, grad, txt change, ↓fl. | 68.70 - 74.14 m - clst-sup brc. 74.14-75.50 m - psd-brc, wkly mottled appearance | | |
| | | | | RA - min 540 CPS; max 940 CPS; avg 700 CPS. | | | | |
| | | | | <u>dol-Carb</u> colour - lt ol-gy, y-gy (5Y 6/1, 5Y 7/2) | | | 78.00 | 500 |
| | | | | mineralogy - dol 97%, f.g., anh; qtz 2%, v.f.g., anh; py 1%, f.g., suh; fl trace, v.f.g., anh; lim trace, v.f.g., anh; phl trace, f.g., anh. | | | 81.00 | 475 |
| | | | | | | | 84.00 | 440 |
| | | | | | | | 87.00 | 420 |
| | | | 75.50 - 89.67 m - mass appearance, locl bndg | 90.00 | 380 | | | |
| | | | | 93.00 | 370 | | | |
| | | | | 81.13 m to 81.18 m, 83.06 m to 83.21 m - x-cut dyke of dol-Carb mtx-sup brc, f.g. to m.g. sub-ang to rnded clst in v.f.g. mtx, stylolitic margins. | | | | |
| | | | | 83.50 m to 85.50 m - patches of med lt gy (N6) mottles → clsts?, with perv v.f.g. dusky y carbonate ± mnz? | | | | |
| | | | | 86.05 m to 86.23 m - bnds of perv itsl fl. | | | | |
| | | | | 87.50 m to 87.93 m - med lt gy mottles → clsts?, and few bnds of perv itsl fl. | | | | |

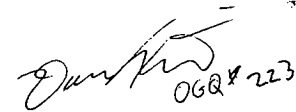
| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|---|----------------------------|---|---------------------|--|--|---|---------------|-----|--|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 93.50 | 118.23 | dol-Carb | B | 88.73 m to 89.69 m - brittle frags with lim; patches of mtx-sup dol-Carb brc with rnded clsts. | 89.67 - 93.50 m bndg ~35° TCA | | | | | | |
| | | | | 90.09 m to 93.50 m - abnt sul sutures? stylolites? ± phl. rare phl-qtz pockets? clsts? patches of mtx-sup dol-Carb brc with rnded clsts. | ctc @93.50 m grad | 89.67 - 93.50 m - bnded | | | | | |
| | | | | RA - min 300 CPS; max 620 CPS; avg 420 CPS. | | | | | | | |
| | | | | <u>dol-Carb</u> colour - y-gy, lt ol-gy (5Y 7/2, 5Y 6/1) | | | | | | 96.00 | 460 |
| | | | | mineralogy - dol 94 %, f.g., anh; fl 3%, f.g., anh; qtz 2%, v.f.g., anh; py 1%, f.g., suh; mnz 1%, v.f.g., anh; amph trace, f.g., anh; lim trace, v.f.g., anh. | | | | | | 99.00 | 430 |
| | | | | | | | | | | 102.00 | 420 |
| | | | | | | | | | | 105.00 | 420 |
| | | | | 93.50 m to 118.23 m - dispersed patches of perv itsl, diss, or blebby fl. perv v.f.g. dusky y carbonate ± mnz throughout; angle of bndg TCA remains fairly constant. frequent med lt gy dol mottles →clsts? in dol-Carb mtx. common mm brittle frac qtz ± fl vnlt; few x-cut v.f.g.lt ol-gy dol-Carb dykes. rare stylolites? | ctc @ 118.23 m grad ↑ REflc. 93.50-118.23 m bndg ~30°-45° TCA. | 93.50 - 118.23 m - mottled bnds, psd- brc patches | | | | 108.00 | 470 |
| | | | | 97.31 m to 97.63 m - x-cut brcd lt ol-gy dol-Carb dyke. mtx-sup, f.g. to m.g. dominantly rnded clsts. v.f.g. lt ol-gy dol dyke @ upper and lower margins, ~15° TCA. | 95.50 m - bndg 30° TCA | | | | | 111.00 | 400 |
| | | | | | | | | | | 114.00 | 410 |
| 98.16 m to 98.27 m - x-cut brcd dol-Carb dyke → identical to 97.31-97.63 m, ~43° TCA. | | | | | | 117.00 | 400 | | | | |
| | | | | | | 118.23 - 122.83 m - mottled | | | | | |
| 101.76 m - vuggy frac with lim | 102.00 m - bndg 45° TCA | 122.83 - 135.10 m - mottled to mass prtc? pbic? patches. | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 118.23 | 190.82 | dol-Carb | - | <p>104.13 m to 104.81 m - patches of med lt gy f.g. mass dol-Carb, brcd clsts?</p> <p>107.41 m to 107.56 m - x-cut v.f.g. lt ol-gy dol-Carb dyke, 45° TCA.</p> <p>108.59 m to 108.67 m - x-cut v.f.g. lt ol-gy dol-Carb dyke, 15° TCA.</p> <p>110.00 to 111.70 m, 115.34 to 118.23 m - patches of perv itsl, diss, or blebby fl. small networks of hydrothermal qtz pockets ± amph ± fl of proximal to fl mineralization. many fl blebs resemble shape of qtz pockets.</p> <p>115.25 m to 115.28 m - lim altred frac.</p> <p>RA - min 350 CPS; max 550 CPS; avg 460 CPS.</p> <p><u>REFlc dol-Carb</u> colour - y-gy, med lt gy (5Y 8/1, N6)</p> <p>mineralogy - dol 89%, f.g., anh; REFlc 5%, v.f.g., anh, ap? 3%, v.f.g., anh; qtz 3%, v.f.g., anh; fl trace, f.g., anh; py trace, f.g., suh; phl trace, f.g.</p> <p>118.23 m to 190.82 m - unit is dominantly bnded but fairly frequent textural heterogeneities → mottled, mass, psd-brc, brc. common bnds or patches of f.g. to rare c.g. and to euh v. lt gy dol phenos ? phls? in v.f.g. dol and ap? gdmass/mtx. lt r to med r REFlc mineralization occurs as perv itsl patches and bnds or as fine diss. x-cut brittle frac qtz vnlt ± fl are common as are v.f.g. lt ol-gy to y-gy dol-Carb dykes. dol-Carb dykes may be impregnated? with perv REFlc.</p> <p>118.23 m to 122.83 m - transtion into BD-zone, increasing REFlc, v. wk bndg, core still has expressions of B-zone.</p> | | | 120.00 | 380 |
| | | | | | | | 123.00 | 360 |
| | | | | | | | 126.00 | 300 |
| | | | | | | | 129.00 | 300 |
| | | | | | | | 132.00 | 300 |
| | | | | | | | 135.00 | 280 |
| | | | | | | | 138.00 | 260 |
| | | | | | | | 141.00 | 250 |
| | | | | | | | 144.00 | 250 |
| | | | | | | | 147.00 | 235 |
| | | | | | | | 150.00 | 260 |
| | | | | | | | 153.00 | 270 |
| | | | | | | | 156.00 | 265 |
| | | | | | | | 159.00 | 240 |
| | | | | | | | 162.00 | 250 |
| 165.00 | 250 | | | | | | | |
| 168.00 | 200 | | | | | | | |
| 171.00 | 210 | | | | | | | |
| 174.00 | 220 | | | | | | | |
| 177.00 | 230 | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|----------------------------|------------------------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 122.83 m to 135.10 m - patchy + sporadic REflc mineralization, no bndg, fairly frequent x-cut lt ol-gy to y-gy v.f.g. dol-Carb dykes ± REflc. mottled to mass, prtc? pblc? patches. | | | 180.00 | 200 |
| | | | | 133.50 m to 135.00 m - brittle frac qtz vnlt ± fl, 35-40° TCA. | | | 183.00 | 200 |
| | | | | 135.10 m to 162.43 m - bnds of REflc mineralization, patches of mottled to mass f.g. dol-Carb with trace diss REflc. bndg @ 135.10 m initially shallow, gently steepens. dkr gy (med gy, N5) bnds or patches associated with v.f.g. sul? | | | 186.00 | 280 |
| | | | | 135.10 m to 162.43 m - bndg 30°-45° TCA; 136.00 m - bndg 35% TCA; 139.50 m - bndg 35°; 143.00 m - bndg 30° TCA; 145.00 m - bndg ~40° TCA; 147.50 m - bndg 40° TCA; 152.50 m - bndg 35° TCA; 156.00 m - bndg 35° TCA; 158.00 m - bndg 45° TCA; 161.00 m - bndg 40° TCA. | | | | |
| | | | | 145.75 m to 146.55 m - x-cut brittle frac qtz fl vnlets with proximal wkly perv fl, two ~5 cm x-cut v.f.g. lt ol-gy dol-Carb dykes ± REflc. med gy sul?-enriched bnds. | | | 189.00 | 270 |
| | | | | 153.50 m to 162.43 m - increased frequency of prtc? or pblc? bnds of f.g. to rare c.g. v. lt gy (N8) anh to euh dol phenos? pbls? | 135.50 m - bndg 20° TCA | | | |
| | | | | 159.00 m to 162.43 - decreasing REflc. | | | | |
| | | | | 162.43 m to 164.50 m - mtx-sup y-gy to med lt-gy dol-Carb brc; f.g. to m.g. ang to sub-rnd clsts in v.f.g. dol ± ap and sul mtx. trace REflc over interval. | | brc | | |
| | | | | 164.50 m to 167.75 m - wkly bnded, ~1% REflc, transitions into dol-Carb with mass appearance. | | wkly bnded | | |
| | | | | 167.75 m to 172.30 m - y-gy to v. lt gy f.g. to m.g. dol-Carb with frequent x-cut mm qtz vnlt, bleaching? trace REflc. diffused? y-gy v.f.g. dol-Carb dyke @ 171.34 m with qtz replaced? clsts. transitions into REflc bnded dol-Carb. | | mass appearenc e | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | |
|-------------|--|---|------------------|--|-----------|---------------------------------|---------------|-----|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | |
| 190.82 | 212.45 | Glim metasoma tite? | - | 179.91 m to 181.80 m - py cc phl dol-Carb, gradational ctcs. mod fol mtx-sup brc → f.g. to c.g. sub-ang to rnded Glim and dol clsts in v.f.g. cc-dol ± ap mtx. 5% f.g. suh py, 10% v.f.g. anh cc, 25% f.g. and phl, 60% f.g. anh dol, trace v.f.g. anh qtz. fol ~40° TCA. | | 172.30 - 185.00 m - bnded | | | | |
| | | | | 172.50 m - bndg 40° TCA; 176.00 m- bndg 35° TCA; 178.00 m - bndg 40° TCA; 184.00 m - bndg 35° TCA; 172.50 m to 185.00 m - bndg, 35°-45° TCA. | | | | | | |
| | | | | 185.00 m - bndg wkens, increasing frequency of prtc? pblc? patches. | | | | | | |
| | | | | 185.00-190.82 m - prtc? phlc? mass patches. | | | | | | |
| | | | | RA - min 180 CPS; max 400 CPS; avg 250 CPS. | | | | | | |
| | | | | <u>py mag dol cc phl Glim? (metasomatite?)</u> | | | | | 192.00 | 290 |
| | | | | colour - blk, w (N1, N9) | | | | | 195.00 | 225 |
| | | | | mineralogy - phl 50%, f.g., suh; cc 25%, v.f.g., anh; dol 15%, f.g., anh; mag 5%, f.g., suh; py 5%, f.g., suh; ap trace, v.f.g., anh; qtz trace, v.f.g., anh; fsp trace, v.f.g., anh; amph trace, f.g., anh. | | | | | 198.00 | 200 |
| | | | | 190.82 m to 198.00 m - brcd f.g. to c.g. ang to sub-rnd clsts of dol-Carb or Glim sup by v.f.g. w to dk gray dol - cc ± mag and py mtx. f.g. mass dol or C-Carb bnds typically <10 cm throughout interval. transition from brc into fol with increasing depth. | | | | | 201.00 | 200 |
| | | | | 198.00 m to 212.45 m - f.g. to c.g. anh to suh phl phenos? metasomatized clsts? distributed throughout unit. patches or v. rare interbed of C and dol (rare) Carb. v.f.g. to m.g. mag diss throughout, also occuring as fine bnds or clusters. common transitions between bnds of 'schistose' and prtc? phl. | | | | | 204.00 | 200 |
| | 207.00 | 210 | | | | | | | | |
| | 210.00 | 220 | | | | | | | | |
| | 198.00 - 212.45 m - fol, 50-60° TCA | 198.00- 212.45 m - dominantly fol, prtc? | | | | | | | | |
| | 202.07 m to 202.52 m - mass f.g. dol-Carb interbed with few sul stringers. | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | RA - min 175 CPS; max 255 CPS; avg 220 CPS. EOH | | | | |



GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Property: Eldor Property | Easting (m): 536123.10 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 11, 2011 | Downhole Survey: No |
| Expl. Area: Ashram | Northing (m): 6312256.36 | Rig Type: Discovery I | Date Completed: Sep 13, 2011 | Survey Tool: |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.66 m | Note: Core barrel stuck in hole, so |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 17.53 m | moved and re-collared |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: N. Nolte | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 1.58 | 17.53 | dol-Carb | A | <p><u>fl dol-Carb</u></p> <p>lt gy section alternating with lt ol-gy to ol-gy sections, top half tends to have more lt gy sections.</p> <p>the text is mottled to patchy, in lt ol-gy to ol-gy sections fl occurs itsl in patches and is less common than in lt gy sections, where it occurs perv itsl throughout and in patches, in lt gy sections dol is often irregularly alt to y-gy (more Fe-rich) carbonates; the lt ol-gy to ol-gy seem to have clst of lt gy to y-gy to dol-Carb, but it looks like an overprinting of Fe-rich? fluids, that caused the colour to change, since on a closer look ol-gy carbonates occur v.v.f.g. itsl between lt gy to y-gy dol-Carb, clst → resulting in lt ol-gy colours overall; REflc are loclly associated with fl, but overall trace; v. late-stage w dol qtz vug occur throughout, often itsl thereby brcg surrounding dol-Carb; late-stage v.f.g. lt ol-gy dykes are difficult to distinguish and are rare; sul exist in blebs throughout; v.f.g.</p> <p>modal mineralogy - dol (+ other clst) 92-93%; fl 5%; REflc 1-2%; qtz 1%; sul trace.</p> <p>1.58 to 3.05 m - encasing and consists of solid rock with few broken parts caused by drilling.</p> <p>1.58 to 7.40 m - dol-Carb is lt gy and mottled with perv fl itsl and few patches (~10%), ol-gy F-Carb? occur throughout, few v.f.g lt ol-gy late-stage Carb vug, min REflc/mnz? associated with fl loclly lt gy dol is altd to y-gy (Fe-rich?) dol.</p> <p>@5.15 m - fl-dol vn?, mass fl mineralization ibd with suc dol grains forming small scaled branching, has w dol rim → either patches or vn, no REflc.</p> <p>7.40 to 8.15 m - f.g. xtl lt ol-gy to ol-gy homo dol-Carb with trace fl and trace sul → enriched in HREE.</p> | | | overall | 200-1000 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>8.15 to 17.53 m - mottled to patchy dol-Carb with minimal fl itsl, fl is mostly existent in patches, abnt clst of y-gy dol-Carb, REflc are ilk with fl and are more abnt than in lt gy sections.</p> <p>9.10 to 10.55 m - abnt fl with ilk. REflc in patches and itsl (~15%).</p> <p>11.40 to 11.70 m - increased w dol qtz vns cutting brcg dol-Carb.</p> <p>E.O.H</p> | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536123.10 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 16, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312256.36 | Rig Type: Discovery I | Date Completed: Sep 19, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 8.23 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 306.93 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -75° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 5.17 | 15.93 | dol-Carb | A | <p>fl dol-Carb</p> <p>mostly lt gy to lt ol-gy, ol-gy in sections. lt gy f.g. dol-Carb is mostly overprinted by y-gy or ol-gy Fe-rich carbonates giving it a mottled text, overall abnt its! fl is supporting this feature, fl occurs also in few mass patches/bnds and is ilk with mnz?/REflc? in traces, v.f.g. lt ol-gy late-stage dol-Carb dykes are cutting litho and occur often; w patches of dol and ± qtz ± fl are common and brc every other structure, their shapes are v. irregular and they are often zoned with a w dol rim and in centre is often qtz, therefore they look rather like infilling than vns; sul occur as blebs throughout.</p> <p>modal mineralogy - dol (+ other carbonates) 90%; fl 7%; mnz/REflc 2%; sul 1%; trace qtz.</p> <p>in-casing goes to 8.23 m, but is solid, broken rock and same as rest of unit, no bldrs.</p> <p>7.80 m to 8.15 m - ol-gy f.g. dol-Carb, homo text without fl, xtln → enriched in HREE, Nd/La ~3:1, 6~6000 ppm.</p> <p>8.45 to 10.65 m - mottled to patchy mostly lt gy v.f.g. dol-Carb with trace overprinting by ol-gy Fe carbonates.</p> <p>@16.35 m - 10 cm w dol patch with minor qtz, cuts late-stage dol-Carb vn.</p> <p>14.00 m to 14.50 m - abnt w dol qtz patches, @ 14.20 m brcg late-stage dol-Carb vn in ang frag.</p> | | | overall | 800-900 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 15.93 | 44.48 | dol-Carb | A/B-T | <p>end of unit is defined by drop in RA to 600 CPS (drop is gradational), change to ltr colours.</p> <p><u>fl dol-Carb</u></p> <p>lt gy to lt ol-gy, locly y-gy. v.f.g. lt gy dol-Carb is locly overprinted with y-gy carbonates? and ol-gy clst? (Fe-rich) leading to y-gy to lt ol-gy colours, overall minor fl in patches and in traces itsl, creating mottled to patchy text; REflc are ilk with fl in traces; at least three different features of late-stage events occur throughout: 1 - v.f.g. homo lt ol-gy dol-Carb dykes; 2 - layered (flow-bnd?) v.f.g. dol-Carb dykes with fl-rich bnds (also lt ol-gy), which cut homo dol-Carb dykes; 3 - dol-fl vnlet of <2 mm, which cut both dykes and patches of w dol (±qtz), which are not frac-related and often brc dol-Carb.</p> <p>modal mineralogy - dol (+ other carbonates) 91-92%; fl 6%; REflc/mnz 1-2%; sul 1%; qtz trace.</p> <p>@ 21.70 m - 20 cm bnd with 60% fl with ilk mnz?.</p> <p>@ 22.65m - 4 cm patches with abnt pale r-br mnz? ilk with fl.</p> <p>23.90 to 25.00 m - minor pale r-br mnz mineralization occurs in patches and blebs (~5%), in this section late-stage fl vnlet are common.</p> <p>25.80 to 26.93 m - 4 cm late-stage layered fl-rich dol-Carb dyke (lt ol-gy to ol-gy) with trace euh py, minor lim around and on fracs; @ 25.90m cm dykes gets cut by fl qtz vn of 3 mm ; @ 26.85 m this dykes cuts a 5 mm homo lt ol-gy late-stage dol-Carb dyke.</p> <p>26.90 to 31.05 m - homo lt gy to lt ol-gy v.f.g. dol-Carb with trace fl in few 2cm patches; from 29.65 to 30.80 m - dol-Carb gets locly brcd by hydrothermal with dol fl (+ qtz) patches.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 44.48 | 156.96 | dol-Carb | A/B-T | <p>35.10 to 39.60 m - lt ol-gy mottled dol-Carb with mostly common itsl fl and abnt ol-gy streaks of Fe-rich carbonates, minor pale r-br to lt br mnz? ilk with fl, lt gy mnz? dol-carb is locky altd to y-gy dol-Carb, high CPS. from 38.35 to 39.20 m - minor lim on natural frac and as infilling in vugs.</p> <p>42.50 to 43.30 m - abnt mnz? mineralization ilk with fl (~6-8%).</p> <p>end of unit is defined by drop in RA, overall change in colour to more homo lt gy, overall decrease in fl.</p> <p><u>dol-Carb</u></p> <p>mostly lt gy to slightly lt ol-gy; overall text is mottled, fl occurs overall minor, while it is more abnt in top half, fl is itsl and in patches locky fl is extensively ilk (or replaced?) by pale r-br and gy-r to gy-r-p mnz?, bottom half contains generally less fl (mostly trace with few sections where abnt fl occurs in patches; late-stage dol-Carb dykes are lt gy v.f.g. and mostly homo, some show layered text (both without fl), they are common throughout.</p> <p>modal mineralogy - dol (+ other carbonates) 93%; fl 4%; mnz 3%; sul trace; lim trace.</p> <p>44.54 to 82.10 m - lt gy to slightly lt ol-gy v.f.g. patchy to mottled dol-Carb, in this section mnz? seems to dominate fl mineralization, mnz occurs itsl locky and ilk with fl patches defining the mottled text, though minor sections at 30-50 cm don't contains visible mnz, at the end of this section a FZ x-cut, after that fl occurs with trace mnz.</p> <p>45.50 to 46.45 m - lt gy dol-Carb gdmass is often overprinted by y-gy clst instead of lt ol-gy.</p> <p>60.10 to 61.00 m – minor itsl mnz mineralization in lt gy and y-gy v.f.g. dol-Carb mtx → almost peppered text.</p> | | | | 850-900 |
| | | | | overall | 300-500 | | | |
| | | | | | 400-450 | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@ 53.50 m - few 3 cm clst of med gy to gr-blk WR? → hard, rim is softer and dk (+ ilk chl/bio?).</p> <p>@ 62.55 m - 4 cm vn of brc, ang lt gy clst of 3 mm to 2 cm in v.f.g. lt ol-gy mtx →mtx sup</p> <p>64.50 to 65.50 m - abnt frac coated with lim, around frac @ 64.60 m rock had higher porosity and some vugs and abnt lim.</p> <p>72.90 to 73.10 m - alt of gr min, which has some grain shapes as sub-rnd dol grains (just overprinting?), trace ilk p fibrous mineral (amp?).</p> <p>74.40 to 81.00 m - more common mnz patches and itsl mnz, loclly up to 10% over 10-15 cm; @ 75.60 m - 4 cm bnd of med gy to dk gy fsp-rich v.f.g. WR with minor sul, around this bnd are some gr ang 1 cm chl patches/clst; @ 82.10 m - FZ, over 20 cm vuggy deeply lim altd rock.</p> <p>@ 82.10 m - FZ, over 20 cm vuggy deeply lim altd rock.</p> <p>82.10 to 91.40 m - minor to abnt fl in patches and itsl, but mnz mineralization appears to be much less common than above FZ, text is the same, lim occurs on frac and as frac-infilling, rock has loclly high porosity.</p> <p>88.20 to 91.40 m - abnt late-stage fl vnlets x-cut.</p> <p>91.40 to 126.50 m - fl content strly decreases and is overall only in trace amounts, few 20-30 cm sections with minor fl in first 10 m of this section; text is mottled to homo, while mottled text results from loclly varying amounts of ol-gy itsl streaks of Fe-rich carbonates? and loclly overprinting by y-gy carbonates? (which might be ilk with mnz, since those areas have REE ~ 2 - 2.5%), few clst of WR, bio vnlets occur rarely, stylolites are common and contain often sul, bio, and fl.</p> <p>@ 107.20 m - late-stage dol-Carb dyke is cut by stylolite → pressure solution of several cm? seems unreasonable, might be due to simultaneous offset.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@ 109.30 m - 15 cm xenolith of v.f.g. med gy to dk gy fsp-rich WR, that is wk biotized, ctc to dol-Carb are sharp.</p> <p>@ 115.30 m to 116.25 m - sections with patches, that contains minor itsl fl.</p> <p>@ 116.70 m - 20 cm of c.g. rextld pblsc dol xtls, which surround two med gy fsp-rich? 5cm sub-rnd WR clst, seems almost like a bnd, but the mtx between pblsc is the same as in sub-rndg dol-Carb, area of rextld is bordered by bio-rich vnlets, which could be stylolites, WR clst contain fl.</p> <p>@ 119.8 m - similar scenario, ang well biotized dk gy WR clst of 3-8 cm in well xtld dol-Carb mtx, clst are well defined frag with fl rim.</p> <p>126.50 to 127.70 m - abnt mnz patches ilk with minor fl (mnz ~10%, fl ~2%).</p> <p>127.70 m to 133.80 m - slightly mottled to patchy text due to minor itsl fl and fl patches, dol-Carb gdmass is still lt ol-gy to lt gy, minor x-cut late-stage fl and fl qtz vnlets.</p> <p>133.80 to 140.10 m - lt gy to lt ol-gy homo to slightly mottled, homo v.f.g. dol-Carb (similar to section as above), fl occurs only in traces, dol-Carb is partially altd by y-gy and/or ol-gy carbonates?, sul occurs in small patches and vnlets but trace overall, stylolites are common; @ 135.15 to 135.40 m - several amph qtz vnlets x-cut.</p> <p>140.10 to 151.90 m - mottled to patchy v.f.g. lt gy to lt ol-gy dol-Carb, fl is perv in patches and minor itsl, in fl patches dol-Carb seems to be brcd to sub-rnd v. lt gy to y-gy clst; in normal lt gy to lt ol-gy dol-Carb gdmass, abnt late-stage fl vnlets x-cut, mnz is overall trace and bound to fl parches.</p> <p>140.80 to 141.20 m - minor itsl mnz mineralization.</p> <p>@ 143.00 - 15 cm mass fl patches with minor ilk mnz.</p> <p>145.50 to 146.50 m - str altn of lt gy and lt ol-gy dol-Carb to y-gy dol-Carb (only in blotches).</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>163.70 to 164.30 m - minor amph-rich bnds of 1-5 cm.</p> <p>@ 165.20 m - 6 cm patch of y-gy mnz? → 6.5% Ce, 6.4% La, 1% Ce, 1000 ppm 4.</p> <p>@ 173.20 m - smaller flt with vuggy rock, infilled by lim.</p> <p>174.00 to 174.80 m - abnt amph vnlets brcg lt gy to y-gy dol-Carb, that comprises minor ol-gy streaks of Fe-rich carbonates?, minor patches of po xtld with amph, seems as a transition zone to next section.</p> <p>174.80 to 193.11 m - v.f.g lt gy dol-Carb, that contains varying amounts of ol-gy streaks of Fe-rich carbonates? causing lt ol-gy colour to locly, fl occurs perv in patches and itsl (~6-7%), pale r-br to gy-r-p mnz is ilk with fl, abnt late-stage fl vnlets locly.</p> <p>182.00 to 186.00 m - trace to minor fl (in few patches), dol-Carb is mottled/blotchy with vnlet dol-Carb and itsl lt ol-gy dol-Carb, section has minor amph with associated sul in bnds of 1-8 cm.</p> <p>189.40 to 191.10 m - fl is often ilk with gr-br v.f.g. REE mineral? (one patch had 2.0% Ce, 8400 ppm La → Ce-anomaly ? or increasing REE pattern?) →xnt?.</p> <p>191.95 to 193.05 m - lt ol-gy mottled dol-Carb with trace fl and abnt ol-gy Fe-rich? carbonates as streaks → heavy zone; Nd/La 2:1, Ce 1.1%, 15% Fe (lt gy sections have 5-8%), 1200 ppm Th.</p> <p>end of unit is beginning of B-Zone; constantly y-gy and lt gy colour, RA drops from 500 to 300 CPS.</p> | | | | 500-600 |
| 193.11 | 259.88 | dol-Carb | B | <u>dol-Carb</u> | | | overall | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v. lt gy to lt gy v.f.g. dol-Carb is often overprinted with y-gy blotches, which gives it a mottled text, locally abnt patches with its fl result in a additional fairly patchy text, y-gy overprint is probably about ilk with mnz? → REE ~ 13%, La/Nd ~ 1:1, pale r-br mnz does very rarely occur with fl, bnds of micro-sul are quite common, late-stage carbonate dykes are rare v.f.g. and y-gy to lt ol-gy, late-stage fl qtz vnlets are common throughout, qtz blebs occur throughout (often in bnds).</p> <p>modal mineralogy - dol (+ other carbonates) 92-93%; fl 3-4%; sul 1%; mnz trace; qtz 1%; ap 1-2%.</p> <p>194.45 to 198.10 m - minor to abnt sul vnlets (~ 3-5% sul), mostly py → @ 197.45 to 197.80 m abnt crack infilling with sul, slightly vuggy rock; minor y-gy colour.</p> <p>201.65 to 202.05 m - minor amp mineralization in patches.</p> <p>202.50 to 204.50 m - several spots and bnds with abnt qtz blebs.</p> <p>208.60 to 208.95 m - few 1-3 cm bnds with abnt qtz and sul blebs → broken vug or hydrothermal text.</p> <p>207.90 to 210.10 m - wk bnd with fl sul and qtz rich bnds defining bndg.</p> <p>212.30 to 213.70 m - overall lt ol-gy colour resulting from irregularly distributed mineralization, ol-gy streaks, though y-gy overprinting is still existent; on spot where ol-gy streak are more abnt, XRF yields 20% Fe, ~1% REE, Nd/La ~4:1, Nd>Ce → heavy zone; fl is trace, minor sul in blebs and vnlets.</p> <p>219 to end of unit - minor ap in bnds.</p> <p>224.90 to 226.70 m - several bnds with abnt ap.</p> <p>228.10 to 229.65 m - wk bnded, mottled v.f.g. v. lt gy to lt gy dol-Carb with trace y-gy overprinting, several bnds of micro-sul ± ap, trace sul.</p> | | | | 500 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 259.88 | 306.93 | dol-Carb | BD | <p>229.65 to 231.45 m - section of REflc rich BD-Zone, brc with minor to abnt sul vnlets and fl vnlets, v. lt gy to lt gy dol-Carb with minor itsl REflc, trace fl.</p> <p>231.45 to 232.80 m - lt gy to y-gy v.f.g dol-Carb with minor patches and vnlets of sul' trace fl (< 1%).</p> <p>241.40 to 242.90 m - mottled lt ol-gy v.f.g. dol-Carb, "heavy zone", abnt ol-gy streaks, often bigger aggregates of elongated patches to 1-2 cm, dol-Carb mtx is still y-gy overprinted, also text does not really change to sub-rndg sections, but mineralization does: no fl, minor sul, ol-gy streaks and patches contain most likely xnt?, XRF yield ~3-3.5%, REE, Nd/La ~ 3:1, Th 1000-1500 ppm on one patch → heavy zone, again out of place and no clear ctcs so probably just fluid overprinting of Fe-rich fluid.</p> <p>@ 243.20 to 243.55 m - abnt amph in blebs.</p> <p>@ 251.90 - 1 cm qtz vn x-cut.</p> <p>at end of unit there is a sharp ctc to lt gy to most r-br dol-Carb (in BD-Zone), although mineralization changes entirely, text stays the same.</p> | | | | 550-600 |
| | | | | <p><u>dol-Carb</u></p> <p>v. lt gy to lt gy with abnt mod r-br and minor med lt gy bnds. overall mod to well bnded with minor REflc itsl and minor ap, both often defining the bndg, fl is trace but occurs locly in patches in bottom half of this unit, sul is in minor blebs and vnlets throughout, late-stage dol-Carb dykes are rare and lt gy to mod r-br f.g.</p> <p>modal mineralogy - dol (+ other carbonates) 94-96%; sul 1%; fl trace; REflc 1-2%; ap 2-3%.</p> <p>259.88 to 267.70 m - text is more mottled and y-gy overprinting of lt gy dol-Carb from last unit occurs commonly, trace to minor mod r-br REflc itsl and in few bnds, fl in trace blebs.</p> | | | overall | 250-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 268.80 to 269.40 m - mostly f.g. med dk gy dol-Carb with few bnds of lt gy dol-Carb, might be due to diss micro-sul, trace REflc, 1.5 cm late-stage dol-Carb dyke x-cut, min ap in dk med gy bnds. 290.40 to 293.10 m - common patches with abnt itsl fl. EOH | | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|-------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536245.41 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 20, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312124.06 | Rig Type: Zinex A5 | Date Completed: Sep 25, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 587.65 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Eldor | Logged By: M. Carter, R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|---|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.40 | OVB | - | <u>Ovb / in casing</u> | | | 4.00 | 920 |
| 3.40 | 110.15 | dol-Carb | A | <p><u>fl dol-Carb</u></p> <p>colour; lt ol-gy, ol-gy (5Y5/2, 5Y4/1).</p> <p>mineralogy - dol 90%, f.g., anh; fl 7%, f.g., anh; mnz? 2%, v.f.g., anh; py 1%, f.g., sub; qtz trace, v.f.g., anh; ap trace, f.g., anh; REflc trace, v.f.g., anh.</p> <p>3.40 - 110.15 m - hetero, abnd x-cut v.f.g. lt ol-gy or ol-gy to mod ol-br, mass or zoned dol-Carb dykes, perv itsl v.f.g. to f.g. v. dusky p (5P 2/2) fl throughout occurring as dense masses, mottled patches, or wispy bnds. v.f.g. anh mnz mineralization associated with fl, sporadic f.g. mass to wkly mottled, ol-gy to med ol-br (5Y 3/2 to 5Y 4/4), F-Carb? (heavy zone → at least 2:1 Nd:La, often 3:1 or XRF values) dykes over interval, rare mm brittle qtz vnlets or pockets and f.g. drusy dol rim and fl. from 3.40 m to 78.20m - hetero text → overprinted, mottled to mass, psd-brc, wkly bnded (shr?). from 78.20 to 110.15 m - hetero text → overprinted, dominantly clst, supported brc.</p> <p>6.15 to 6.32 m - fl patch with mod og-pk (10R 7/4) alt?</p> <p>6.57 to 6.63 m - x-cut v.f.g. lt ol-gy dol-Carb dyke with sutured? stylolitic? margin.</p> <p>8.15 to 30.25 m - v. wkly to modly bnded, frequently overprinted by x-cut late-stage Carb dykes.</p> <p>9.00 to 110.15 m - abnt x-cut late-stage Carb dykes, common density > 10 per m, typically mm to cm scale, and no preferred orientation.</p> | <p>ctc @ 110.15 m - good → text and colour changes, CPS ↓</p> | 7.00 | 1180 | |
| | | | | | | | 10.00 | 1150 |
| | | | | | | | 13.00 | 1100 |
| | | | | | | | 16.00 | 1200 |
| | | | | | | | 19.00 | 1180 |
| | | | | | | | 22.00 | 1300 |
| | | | | | | | 25.00 | 1350 |
| | | | | | | | 28.00 | 1240 |
| | | | | | | | 31.00 | 1120 |
| | | | | | | | 34.00 | 1310 |
| | | | | | | | 37.00 | 1370 |
| | | | | | | | 40.00 | 1530 |
| | | | | | | | 43.00 | 1490 |
| | | | | | | | 46.00 | 1800 |
| | | | | | | | 49.00 | 2000 |
| | | | | | | | 51.00 | 1600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 17.81 to 19.88 m - f.g. wkly mottled and bnded mod ol-br to ol-gy (5Y4/4; 5Y 3/2) F-Carb? (heavy zone?) dyke?, nature of ctc uncertain → bounded by x-cut v.f.g. dol-Carb dykes, appears gradual at lower ctc, bndg ~ 40° TCA; f.g. lt br (5YR 5/6) mnz diss throughout unit. | | | 54.00 | 1800 |
| | | | | 19.88 to 26.00 m - expressions (colouration → mod ol-br to ol-gy) of F-Carb (heavy zone?) throughout interval. | | | 57.00 | 1950 |
| | | | | 27.40 to 28.00 m - f.g. gy-og-pk (10 R 8/2) mottles over interval, UV light shows former clst? outline in b-w response → ap. | | | 60.00 | 2000 |
| | | | | 27.40 to 30.15 m - mm patches and stringers of v.f.g sul, chl?, phl and f.g. to rare m.g. py. 28.81 to 28.96 m - lrg stringers patch with f.g. anh mag and gal. 28.67 to 28.80 m - mineralization, v.f.g. to f.g. lt br (5YR 5/6) frac-rel or diss minor, mnz?. | | | 63.00 | 2020 |
| | | | | 36.35 to 36.80 m - f.g. gy-og-pk mottles, b-w un response → ap. | | | 66.00 | 1800 |
| | | | | 37.46 to 38.35 m - v.f.g. ol-gy late-stage dol-Carb dyke undulating along CA. | | | 69.00 | 1500 |
| | | | | 40.38 to 44.00 m - lrg (up to ~ 4 cm) wkly zoned v.f.g. dol-Carb dykes @ shallow angles or undulating along CA. | | | 72.00 | 1330 |
| | | | | 40.38 to 49.00 m - patches and stringers of v.f.g. sul and chl? and dol-Carb brc → f.g. to c.g. ang to sub-rnd clst with itsl sul and chl?. | | | 75.00 | 1380 |
| | | | | 46.51 to 47.00 m - section of shallow bnded core ~ 25° TCA, bounded by x-cut v.f.g. dol-Carb dykes. | | | 78.00 | 1350 |
| | | | | 48.50 to 67.60 m - mod ol-br to ol-gy (5Y 4/4, 5Y 3/2) F-Carb (heavy zone?) dykes and stringers throughout interval → also rare gy-or-pk mottles with b-w UV response → former clst? → ap. | | | 81.00 | 920 |
| | | | | 50.72 to 50.80 m - x-cut dol-Carb brc dyke → f.g. sub-ang to rnd dol-Carb clst supported by v.f.g. dol mtz. | | | 84.00 | 870 |
| | | | | | | | 87.00 | 1025 |
| | | | | | | | 90.00 | 1200 |
| | | | | | | | 93.00 | 1150 |
| | | | | | | | 96.00 | 980 |
| | | | | | | | 99.00 | 1000 |
| | | | | | | | 102.00 | 940 |
| | | | | | | | 105.00 | 950 |
| | | | | | | | 108.00 | 980 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>51.00 to 54.00 m - rare hydrothermal qtz vnlets or pockets and f.g. drusy dol rim and fl throughout. @ 51.05 m - mm hydrothermal qtz vnlet with f.g. anh mod r-og (10R 616) fsp? → no UV response, underside of core has gy-og-pk mottles with b-w UV response → ap.</p> <p>56.00 to 60.00 m - zones of brittle frac fl vnlets, locly wk stockworks.</p> <p>57.85 to 60.35 m - mineralization is v.f.g. dk r-br (10R 3/4) diss xnt? XRF → ~ 0.7% Y.</p> <p>@ ~ 62.80 m - increasing frequency of v.f.g. mod r-br (10R 4/6) lim as coating on natural frac surfaces or infill in mm vugs.</p> <p>66.18 to 72.00 m - zones with heavy lim staining and frac coating or vug infill.</p> <p>72.25 to 72.60 m - v.f.g. to f.g. lt r min occurring with fl, fl alt? REflc?.</p> <p>74.71 to 74.88 m - dense v. dusky p f.g. fl patches with v.f.g. gy-r-p mnz alt?.</p> <p>75.72 to 76.00 m - cluster of v.f.g. x-cut ol-gy dol-Carb dykes.</p> <p>76.93 to 77.05 m - x-cut mod ol-br mtx supported F?-Carb brc → f.g. to c.g. sub-ang to rnd with lt gy dol-Carb clst in v.f.g. mod ol-br F?-Carb mtx, ~35 ° TCA.</p> <p>77.29 to 77.52 m - bnded / zoned x-cut v.f.g. to f.g. mod ol-br to ol-gy F?-Carb dykes.</p> <p>78.20 to 110.15 m - text t, still hetero and overprinted but dominantly appears as a clst-sup brc with diffuse clst margins; clsts f.g. to rare v.c.g. ang to sub-rnd clst → dol-Carb or brcd fl patches? → decreased frequency of dense fl masses, fl occurs as brittle frac vnlets or smaller (~cm) perv itsl patches. colouration lightens to med lt gy, lt ol-gy (N6, 5Y 5/2) as depth increase and decreasing frequency and size of late-stage dol-Carb dykes, rare F?-Carb dykes; slight drop in CPS. precursor to A-B t?.</p> <p>88.50 to 89.67 m - frequent ~0.5 mm fl patches with v.f.g. gy-r-p (5RP 4/2) mnz alt?.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 91.20 to 92.17 m - v.f.g. mod r-br to dk r-br (10R 4/6, 10R 3/4) lim coating along shallow (15° to 20° to CA) fracs. | | | | |
| | | | | 96.09 to 96.74 m - x-cut dol-Carb dyke → bnds of v.f.g. ol-gy to lt ol-gy dol-Carb with v.c.g. clst of mtx-sup dol-Carb brc; sul and phl stringers over interval with fl patches; mod pk (5R 7/4) ap (b-w UV light response) clst up to ~5 cm proximal to 96.50 m. | | | | |
| | | | | 97.64 to 100.00 m - x-cut brittle frac fl vnlets ranging from 40° - 60° TCA; wk fl stockwork zones (or lrg vn with ang clst of brcd dol-Carb. | | | | |
| | | | | 101.75 to 105.90 m - patches of dk gy (N3) f.g. mag and ilm? with v.f.g. bk-r (5R 2/2) Nb bearing phase → XRF up to 1%, pych? Nb-rt? lrg patches (>5 cm) @ ~102.90 m and 105.80 m. | | | | |
| | | | | 104.15 m to 104.55 m - patches with v.f.g. to f.g. mod r-og REE bearing min → XRF shows mid to heavy enrichment → mnz? xnt? other? lrg path ~4 cm. | | | | |
| | | | | @ ~105.00 m - v.c.g. ang clst of zoned/bnded late-stage dol-Carb dykes in brc. | | | | |
| | | | | 106.57 to 107.00 m - v.f.g. to f.g. fl with v.f.g. dusky br REflc. | | | | |
| | | | | 108.20 to 109.00 m - late-stage hdrothermal qtz and f.g. drusy dol rim, fl, and sul. lense of hydrothema brc proximal to 109.00 m with f.g. br mnz?. | | | | |
| | | | | 109.90 to 110.15 m - clst? of gy-og-pk (10R 8/2) ap → b-w UV reponse. | | | | |
| | | | | RA min 840 CPS, max 2100 CPS and avg ~1300 CPS. | | | | |
| 110.15 | 166.00 | dol-Carb | - | <u>fl dol-Carb (A/B-T?)</u> | | | 111.00 | 1160 |
| | | | | colour; lt ol-gy, med lt gy (5Y 7/2, N6). | | | 114.00 | 1180 |
| | | | | mineralogy - dol 91%, f.g., anh; fl 5%, f.g., anh; mnz 2%, v.f.g., anh; py 1%, f.g., anh; qtz 1%, v.f.g., anh; amph trace, f.g., anh; ap trace, c.g., anh; phl trace, f.g., anh. | | | 117.00 | 1140 |
| | | | | | | | 120.00 | 800 |
| | | | | | | | 123.00 | 850 |
| | | | | | | | 126.00 | 675 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 110.15 to 166.00 m - ltr colouration and reduced CPS compared to overlying unit. expressions of both A and B zones → textly more like B-zone but A-zone type dense fl (masses persist as well elevated CPS compared to characteristic B (400-500 CPS) perv v.f.g. dusky y (5Y 6/4) Carbonate and mnz throughout; common x-cut v.f.g. lt ol-gy (5Y 6/1, 5Y 5/2) dol-Carb dykes, most <5 cm. fl occurs as v.f.g. to f.g. perv itsl patches, wispy bnds, dense masses, or brittle frac fill. common late-stage brittle frac qtz vnlets and fl; v. rare hydrothermal qtz pockets. v. pale og (10YR 8/2) mottles throughout. rare mod og-pk (10R 7/4) ap clst? with b-w UV response. sparse stylolites. from 110.15 to 160.00 m - text; mottled → still hetero → psd-brc, wk bnded or mass appearance but wker overprints than overlying unit. from 160.00 to 166.00 m - text; wkly mottled → mass appearance subtle bndg. | ctc @ 166.00 m gradual, ↓ fl, ↓ CPS, dominance of subtle bndg | | 129.00 | 520 |
| | | | | 110.15 to 110.50 m - mottled fl with v.f.g. gy-r-p (5RP 4/2) mnz alt?. | | | 132.00 | 480 |
| | | | | | | | 135.00 | 575 |
| | | | | | | | 138.00 | 500 |
| | | | | 113.25 to 113.80 m - dense fl masses and v.f.g. mnz. | | | 141.00 | 500 |
| | | | | | | | 144.00 | 620 |
| | | | | 114.00 to 116.00 m - x-cut dol-Carb dykes with entrained? f.g. mod og-pk (10R 7/4) ap clst? → b-w UV response. | | | 147.00 | 720 |
| | | | | | | | 150.00 | 815 |
| | | | | @ 122.80 m - mod og-pk (10R 7/4) ap in ~2mm x-cut dol-Carb dyke. | | | 153.00 | 1000 |
| | | | | | | | 156.00 | 900 |
| | | | | @ ~125.00 to 130.00 m - reduced fl, patches of mm qtz pockets and amph. rare sul stringers and f.g. suh py. f.g. to c.g. rnded ap clst (b-w UV response) from 127.82 to ~128.00m. | | | 159.00 | 780 |
| | | | | | | | 162.00 | 720 |
| | | | | 132.40 to 134.10 m - brc and psd-brc bnds, brc → clst-sup f.g. to v. rare v.c.g. ang to sub-rnd clst with itsl v.f.g. dol, fl. py, and qtz. | | | 165.00 | 710 |
| | | | | | | | | |
| | | | | 138.86 to 139.00 m - mm patches of pale r-br (10R 5/4) fl alt? and few v.f.g. dk gy sul stringers. | | | | |
| | | | | | | | | |
| | | | | @ ~ 144.00 m - wk to mod bndg becomes apparent, often overprinting but persisting to ~149.40 m. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|--|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 166.00 | 223.00 | dol-Carb | - | 144.00 to 151.25 m - lt ol-gy colouration, zones with abnt v.f.g. x-cut dol-Carb dykes locly overprinting fabric, v.f.g. mod r-br (10R 4/6) lim coating on some natural fracs. rare patches of gy-pk ap → b-w fluorescence, former clst?. | | | | | | | |
| | | | | 150.41 to 150.49 m - F?-Carb bnd → no text change and bnd does not x-cut core, locl overprinting or original fabric?. | | | | | | | |
| | | | | 151.25 to 154.15 m - T to f.g. pale ol to ol-gy (10Y 6/2, 5Y 3/2) bnded F?-Carb with v.f.g. to f.g. lt br (5YR 5/6) mnz? XRF → Nd to La commonly 2:1. bndg distorted by x-cut brittle frac network developing locl clst-sup brc. brittle frac infilled by fl or qtz or both. rare hydrothermal qtz pockets, trace gal. vertical frac from 151.25 to 152.00m, wkly developed skl? | | | | | | | |
| | | | | ~156.00 to ~160.00 m - dense A-zone style fl masses over interval, wk brittle frac fl throughout, trace gal. | | | | | | | |
| | | | | 163.00 to 165.77 m - reduced fl, common sul, phl stylolites? sutures. few v.c.g. sub-rnd brcd clst → mod r-og (10R 6/6) ap (b-w UV response) clst up to ~6 cm. XRF → heavy enrichment. | | | | | | | |
| | | | | RA min 430 CPS, max 1200 CPS and avg ~700 CPS. | | | | | | | |
| | | | | <u>dol-Carb (A/B-T?)</u> | | | | | | 168.00 | 620 |
| | | | | colour; lt ol-gy, med lt gy (5Y 5/2, N6). | | | | | | 171.00 | 485 |
| | | | | mineralogy - dol 94%, f.g., anh; fl 3%, f.g., anh; py 1%, f.g., anh; qtz 1%, v.f.g., anh; mnz 1%, v.f.g., anh; amph trace, f.g., anh. | | | | | | 174.00 | 470 |
| | | | | 166.00 to 223 m - CPS and text locly similar to B-zone, slightly dk colouration. x-cut v.f.g. lt ol-gy (5Y 5/2, 5Y 6/1) dol-Carb dykes common though reduced frequency compared to preceding units. fl dominantly occurs as perv wispy bnds or patches and v.f.g. mnz? perv dusky y Carbonates and mnz? throughout; common x-cut brittle frac qtz vnlets and fl. vuggy zones with lim and cc coating or infill. from 166.00 to 186.64 m - text; wkly mottled with subtle bndg. from 186.64 to 223.00 m - vuggy, wkly to mod mottled and bndg. | | | | | | 177.00 | 345 |
| | 180.00 | 495 | | | | | | | | | |
| | 183.00 | 445 | | | | | | | | | |
| | 186.00 | 475 | | | | | | | | | |
| | 189.00 | 540 | | | | | | | | | |

ctc @ 223.00 m gradual, ↑ fl and disappearance of vugs.

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 166.44 to 166.52 m - x-cut dyke of prtc? dol-Carb at 45° TCA. f.g. to c.g. anh to euh v. lt gy or y-gy dol pheno? in v.f.g. Carbonates and ap gdmass. | | | 192.00 | 650 |
| | | | | @ 167.00 m → bndg 40° TCA. @ 169.50 m → bndg 40° TCA. @ 171.50 m → bndg 40° TCA. @ 173.50 m → bndg 40° TCA. | | | 195.00 | 525 |
| | | | | 176.67 to 176.70 m - x-cut v.f.g. dol?-Carb dykes with f.g. anh mag. | | | 198.00 | 580 |
| | | | | 180.31 to 180.34 m - x-cut dykes of mt-x-sup dol-Carb brc with f.g. to m.g. ang to sub-rnd clst. | | | 201.00 | 485 |
| | | | | 180.31 to ~182.00 m - abnt x-cut v.f.g. lt ol-gy dol-Carb dykes. | | | 204.00 | 470 |
| | | | | 186.64 to 221.50 m - appearance of mm to cm vugs and v.f.g. cc or lim coating and v.f.g. to f.g. suh to euh py. zones of decrease fl throughout interval, increased CPS and rare stylolites. | | | 207.00 | 460 |
| | | | | 199.69 to 199.90 m - lense of Glim?; dk gy, v.f.g. to f.g., dominantly sul and phl. | | | 210.00 | 420 |
| | | | | 208 to 223.00 m - structure → bndg at shallow angles or parallel TCA. | | | 213.00 | 425 |
| | | | | 213.00 to 223.00 m - decreasing vugs, increasing fl. sparse brittle frac fl and qtz. | | | 216.00 | 500 |
| | | | | 217.19 to 217.32 m - x-cut F?-Carb dyke with f.g. anh to suh mag at ~40° TCA, elevated CPS. | | | 219.00 | 500 |
| | | | | RA min 320 CPS, max 705 CPS and avg ~480 CPS. | | | 222.00 | 540 |
| 223.00 | 272.50 | dol-Carb | A/B-T | <u>fl dol-Carb</u> | | | 225.00 | 650 |
| | | | | colour; lt ol-gy, y-gy (5Y 5/2, 5Y 7/2). | | | 228.00 | 640 |
| | | | | mineralogy - dol 93%, f.g., anh; fl 5%, f.g., anh; mnz? 1%, v.f.g., anh; qtz 1%, v.f.g., anh; py trace, f.g., suh; tlc trace, f.g. suh; magbasite trace, f.g., euh; REflc trace, v.f.g., anh; amp trace, f.g., anh. | | | 231.00 | 700 |
| | | | | | | | 234.00 | 700 |
| | | | | | | | 237.00 | 640 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-------------------------------|---------|---------------|--------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 223.00 to 272.50 m - fl occurs as perv patches or wispy bnds, dense masses, and common x-cut mm vnlets and qtz. v. rare clst of gy-og-pk (10R 8/2) ap? → b-w UV response. rare hydrothermal pockets or brc patches of diss v.f.g. mod r-br REflc? mnz? and fl and perv dusky y Carbonate. few x-cut v.f.g. y-gy to lt ol-gy dol-Carb dykes. 223.00 to 252.00 m - mottled, bnded with psd-brc patches, 252.00 to 258.00 m - mottled psd-brc, 258.00 to 272.50 m - bnded → mottled and psd-brc. | ctc @ 272.50 m gradual, ↓ fl. | | 240.00 | 630 |
| | | | | | | | | 243.00 |
| | | | | 223.78 to 224.20 m - brittle frac fl and proximal perv fl. | | | 246.00 | 780 |
| | | | | 224.68 m - ~8cm gy-og-pk ap clst? | | | 249.00 | 700 |
| | | | | 225.65 to 226.50 m - wk hydrothermal fl stockwork fracs dominantly ~35° TCA. | | | 252.00 | 550 |
| | | | | 226.80 to 242.00 m - structure → bndg at shallow angles or parallel TCA. | | | 255.00 | 480 |
| | | | | 230.50 to 232.30 m - pockets of hydrothermal fl, brittle frac fl throughout interval. | | | 258.00 | 480 |
| | | | | 230.50 to 272.50 m - wk hydrothermal alt → rare pockets of tlc?, richterite? (p amph?) present along 5 cm fracs, zones with lt br hue → increased mnz mineralization?. | | | 261.00 | 530 |
| | | | | 241.40 to 241.60 - hydrothermal brc → ang f.g. to v.f.g. dol-Carb clst and f.g. w dol rim in tlc? and richterite? and qtz mtx . richterite? occurs as radiating m.g. euh aggregates of acicular needles. | | | 263.00 | 680 |
| | | | | ~242.00 to 244.30 m - psd-brc patches, rare vugs or brc bnds. | | | 266.00 | 740 |
| | | | | 245.50 to 245.70 m - dense masses of perv fl and mnz? and Reflc? mineralization. | | | 269.00 | 740 |
| | | | | ~245.70 to 272.50 m - mineralization → perv or diss v.f.g. mod r-br (10R 4/6) REflc. | | | 272.00 | 760 |
| | | | | 247.7 to 272.50 m - common mm brittle frac qtz and fl and REflc ? vnlets; common stylolites. @ 248.50 m → bndg 43° TCA. @ 249.00 to 250.50 m → brittle frac vnlets 35-40° TCA. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 272.50 | 290.63 | dol-Carb | - | <p>255.35 to 256.00 m - mtx-sup dol- Carb brc; f.g. to c.g. sub-ang to rnd clst. clst have diffuse margins and rare nearly indistinguishable from mtx, transitions into bnded dol-Carb.</p> <p>259.00 m - bndg ~35° TCA.</p> <p>259.66 to 259.69 - c-cut qtz vn @ 40° TCA.</p> <p>260.00 m - bndg ~40° TCA. @ 261.50 m - bndg ~40° TCA. @ 264.00 m - bndg ~35° TCA.</p> <p>264.28 to 264.42 m - x-cut v.f.g. lt ol-gy dol-Carb dykes with trace mag.</p> <p>264.50 to 266.50 m - v. rare patches or stringers of v.f.g. to f.g. anh mag and f.g. suh py and po. @ 266.5 m - bndg ~35° TCA.</p> <p>265.00 to 266.50 - x-cut mm brittle frac qtz vnlet @ 35°, roughly perpendicular to bndg.</p> <p>268.50 m - bndg ~30° TCA. @ 270.50 m - bndg ~27° TCA. @ 272.00 m - bndg ~30° TCA.</p> <p>RA min 370 CPS, max 800 CPS and avg ~670 CPS.</p> <p><u>dol-Carb</u></p> <p>colour - lt ol-gy, y-gy (5Y 5/2, 5Y 7/2).</p> <p>mineralogy - dol 95%, f.g., anh; fl 3%, f.g., anh; py 1%, f.g., suh; qtz 1%, v.f.g., anh; mnz trace, v.f.g. anh; REflc trace, v.f.g., anh; phl trace, f.g., suh; mag trace, f.g., anh; amph trace, f.g., anh.</p> | | | 275.00 | 550 |
| | | | | | | | 278.00 | 430 |
| | | | | | | | 281.00 | 430 |
| | | | | | | | 284.00 | 530 |
| | | | | | | | 287.00 | 470 |
| | | | | | | | 290.00 | 530 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|--|---------|--|-----|
| | | | | | | | DEPTH (m) | CPS |
| 290.63 | 321.00 | dol-Carb | - | 272.50 to 290.63 m - hetero unit → similarities to A/B-T but has expressions of M-zone or hydrothermal alt Carbonate (tlc, fl-them? richterite? assemblage). common late-stage x-cut brittle frac qtz vns and fl and mnz? REflc?; common stylolites and sul stringers. fl occurs as perv patches, dense masses or wispy bnds. few x-cut v.f.g. dol-Carb dykes; decreased CPS. text → wk mottled to mass, bnded or psd-brc patches. | ctc @ 290.63 m - gradual, colour lightens B variant. | | | |
| | | | | 273.14 to 275.50 m - x-cut brittle frac qtz vnlets and fl and mnz? REflc. | | | | |
| | | | | 277.00 to 281.00 m - patches of phl? and sul, proximal stylolites? sutures? and brc patches with f.g. to c.g. ang clst. | | | | |
| | | | | 278.30 to 278.70 m - structure → brittle frac qtz vns 35-40° TCA. | | | | |
| | | | | 283.78 to 290.63 m - lt ol-gy to pale y-br dol-Carb with patches or x-cut stringers of v.f.g. to f.g. mag and py → M-zone type. | | | | |
| | | | | RA min 350 CPS, max 660 CPS and avg ~500 CPS. | | | | |
| | | | | <u>dol-Carb</u> | | | | |
| | | | | colour - y-gy, mod lt gy (5Y 7/2, N6). | | | | |
| | | | | mineralogy - dol 94%, f.g., anh; fl 3%, f.g., anh; py 1%, f.g., suh; REflc 1%, v.f.g., anh; qtz 1%, v.f.g., anh; amph trace, f.g., anh; mnz trace, v.f.g. anh; tlc trace, f.g., suh; mag trace, f.g., anh; phl trace, f.g., suh. | | | | |
| | | | | 290.63 m to 321 m - B variant with wk to mod hydrothermal alt. perv dusky y Carbonates and mnz? throughout; rare develops gr or pale r-br vugs associated with tlc richterite? fl-trem? REflc? assemblage common x-cut brittle frac qtz vns and fl and amph and REflc?; common stylolites. fl occurs as perv patches or wispy bnds; few x-cut v.f.g. dol-Carb dykes and sul stringers and phl. from 290.63 to 306.00 m - text → wkly mottled to mass, psd-brc or bnded. | | | ctc @ 321.00 m - gradual, ↓ fl and ↓ hydrothermal alt. | |
| 292.74 to 292.86 m - qtz sul vn with c.g. suh to euh py. | | | | | | | | |
| | 293.00 | 340 | | | | | | |
| | 296.00 | 370 | | | | | | |
| | 299.00 | 420 | | | | | | |
| | 302.00 | 400 | | | | | | |
| | 305.00 | 370 | | | | | | |
| | 308.00 | 520 | | | | | | |
| | 311.00 | 430 | | | | | | |
| | 314.00 | 510 | | | | | | |
| | 317.00 | 250 | | | | | | |
| | 320.00 | 300 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 321.00 | 346.00 | dol-Carb | - | <p>298.08 to 298.18 m - patches of f.g. anh mag. @ 298.00 → bndg 40° TCA.</p> <p>304.85 to 305.10 m - brc dol-Carb, f.g. to rare v.c.g. ang to sub-rnd clst with v.f.g. dol and py and mag mtx.</p> <p>306.00 to 316.00 m - text → bnded, mottled or psd-brc. @ 306.50 m - bndg 30° TCA. @ 308.00 m - bndg 30° TCA. @ 310.00 m - bndg 45° TCA. @ 311.00 m - bndg 35° TCA. @ 314.00 m - bndg 35° TCA. @ 316.00 m - bndg ~30° TCA.</p> <p>316.00 to 321.00 m - common to abnt brittle frac vnlets → qtz or amph →arf or richterite? fl-trem? development of locl brc with f.g. to v.c.g. ang clst with itsl dol, amp, qtz, and tlc. text → v. wkly mottled to mass subtle bndg.</p> <p>RA min 220 CPS, max 580 CPS and avg ~400 CPS.</p> <p><u>dol-Carb</u></p> <p>colour - lt ol-gy, γ-gy (5Y 6/1, 5Y 7/2).</p> <p>mineralogy - dol 97%, f.g., anh; fl 1%, f.g., anh; qtz 1%, v.f.g., anh; py 1%, f.g., suh; phl trace, f.g., suh; amph trace, f.g., suh; mnz trace, v.f.g. anh; REflc trace, v.f.g., anh.</p> <p>unit is homo, mass gdmass dominates only minor cr dol patches locly v. rare fl grains. faint mottled text locly.</p> <p>321.75 to 322.15 m and 324.60 to 325.25 m - core dk gy, abnt bio in frags and sul patches up to 10 cm (py and sph) reduced/minor bio frags up to 20 cm above and below.</p> <p>@ 323.85 m - fl patches / dusters (5-10%), also @ 324.55 (< 30%) and @ 326.50 m (10%).</p> | | | unit | 230-330 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 346.00 | 381.53 | dol-Carb | B | <p>late-stage Carb dykes x-cut locly - these are v. similar to intruded Carb (same colour, grain size, text, inconspicuous edges) therefore similar melt is intruding or ev.thing has been evenly overprinted/retld. 15 cm pale gr-y bnd at 329.62 m, late-stage Carb dyke?, mass, aph below this are two frac zones with w lt gy dol clusters and bio and py filling the frac/pockets.</p> <p>332.05 to 333.35 m - flow bndg at 15-20 ° dominates core, late dyke? more γ than surrounding Carb. py along lower ctc and minor bnds within small brc path at 32.85 m with dol and fl mtx.</p> <p>334.15 to 334.40 m and @ 335.70 m - cr dol clusters abnt .</p> <p>334.40 to 335.50 m - fl common as blebs up to few % locly. Carb has mottled text here and continues to 337.80 m.</p> <p>337.80 to 339.20 m and 344.65 m to end - Carb is brc. first interval has med b-gy mtx, aph, with variable Carb clsts mostly grouped near top - typically, sub-ang, γ-gy to pale gr-y, some layered (late-stage dykes?) and some with ap.</p> <p>@ 344.65 m - brc has gr-gy mtx, clst mostly γ-gy to pale gr-y, sub-ang, but dol of late-stage Carb. upper and lower ctc sharp. minor REflc locly.</p> <p>@ 338.85 m - γ-gy Carb patch with common og-br mineralization (mnz? REflc?), up to 2%. REflc grains continue bellow. also minor dk gr hbl? along edge of patch.</p> <p>339.20 to 344.65 m - mottled text mixed γ-gy to gy-b-gy fl patches and blebs common, 40% locly cr colour cluster abnt; scattered sul patches locly. mnz increased through here? - γ Carb and common og-br mineralization diss up to few %.</p> <p><u>dol-Carb</u></p> <p>γ-gy. locly patchy text, locly mottled text, minor mass aph sections. fl REflc mnz ? blebs common throughout - well mineralized dominantly f.g.</p> <p>modal mineralogy - dol 95%; fl 1%; REflc 1%; mnz 1%; amph 1% (gr-p varieties?); py 1%.</p> | | | unit | 220-330 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 381.53 | 413.25 | dol-Carb | B | <p>first 1.5m seems less mineralized than rest of interval, minor fl REflc blebs. slightly dk and increasing br blebs (mnz and REflc?) towards 348.50m.</p> <p>348.50 to 358.70 m - patchy text dominates with abnt, fl, REflc, mnz blebs and patches. patches are dominantly y cr dol-Carb up to few cm, with med gy itsl Carb. mineralized blebs and patches locky up to 25%. commonly 5-10%, REflc mnz dominant (br-r and br) with fl locky. handheld XRF 2-4% through here. bellow 358.70 m reduced fl REflc mnz mineralization, although still common. mottled text now more dominant.</p> <p>357.00 to 358.70 m - p amph clusters and along fracs.</p> <p>below 358.70 m - reduce fl-REflc-mnz mineralization although still common mottled text now more dominant.</p> <p>359.85 to 362.85 m - gr amph cluster locky, typically < 15 cm, up to few % locky.</p> <p>y grains/ patches (enriched in mnz / Nb-rt?) with lt gy gdmass = majority of Carb cr dol clusters locky.</p> <p>369.60 to 368.00 m and 370.10 to 370.40 m - brc bnds, narrow dykes (<4cm), gr mtx, diss py, clst ang (same Carb as surrounding, mostly < 1 cm.)</p> <p>bellow 374.00 m - locky wkly bnded at 25° TCA, mineralization follows bndg (fl, py amph, REflc/mnz).</p> <p>bottom 3 m of interval is more homo/mass minor fl clusters at 379.60m and 379.50 m.</p> <p><u>dol-Carb</u></p> <p>gr-y to gy. sul much increased over previous unit. decreased mineralization (fl, REflc, mnz) wkly frac, psd-brc and mottled text locky. f.g. locky m.g.</p> <p>modal mineralogy - dol (other Carbonates?) 98%; py (+ other sul) 2%; mag trace; amph (p-gr varieties) trace; fl trace; REflc trace; mnz trace.</p> | | | unit | 180-230 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 413.25 | 459.71 | dol-Carb | - | <p>increased sul means unit dkr than above. frags common in sul-rich areas, filled with sul and amph w lt gy dol clusters common, sub-rnd - ctsc text?.</p> <p>386.25 to 397.50 m - γ-gy Carb, not as str as previous unit, faint mottled text, no significant mineralization reduce frags and sul here (although still present). locky wkly bnded.</p> <p>394.90 m - patchy zone with w dol clusters (+ qtz?) and disss gln.</p> <p>397.50 to 407.80 m - return to gy sul Carb.</p> <p>398.00 to 399.60 m - small fl blebs along wk fol, up to 2% locky, typically with minor mnz (br, trace).</p> <p>401.55 to 404.80 m - brc, mtx-enriched in sul (dk gy), clsts lt gy Carb.</p> <p>402.00 to 406.00 m - common py and chl / srp? infill.</p> <p>406.60 to 407.60 m - weak bndg, fol, shrd?. bnds with sub-rnd dol grains (ctsc text?) qtz vn at 406.85 m.</p> <p>407.75 m to end - return to γ-gy Carb, mottled - wkly bnded. fl blebs locky, up to 5% gr amph bands, blebs locky also sul frags and clusters locky (reduced). bottom 1.5 m has abnt cr dol clusters, increasingly blotchy, towards lower ctc, qtz blebs in bnds increasing down mod bnded.</p> <p><u>ap dol-Carb</u></p> <p>lt gy to med gy. wkly fol, patchy ctsc psd-brc? lt gy cr dol clst throughout. igr bio and bio strings throughout. minor BD zone locky, ibd Glim bands near end. f. to m.g.</p> <p>modal mineralogy - dol 86 %; ap 8%; bio 3%; py, sph (sul?) 4%; qtz 2%; bsn/prs trace.</p> | | | unit | 200-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>unit starts with introduction of bio. Carb dk gy not y. cr dol, grains/clusters throughout are sub-rnd, mostly < 1 cm rarely up to 4 cm - gives ctsc psd-brc text. fairly consistent text and mineralogy down to 432.10 m.</p> <p>bio strings interlaced between dol clst, commonly up to 5%. py, sul typically associated with bio but also f.g. in mtx?. ap f.g. in mtx with dol, up to 15% locly.</p> <p>@ 414.50 m - 20 ° TCA. @ 415.25 m - 30 ° TCA.</p> <p>@ 422.20 m - 10 cm qtz dol vn/pocket at edge of core, c.g., dol is euh and cr.</p> <p>422.35 to 432.10 m - sections of Carb more homo - reduced to no bio and dol clusters, bndg is sharper and stringer, med gy (dol and sul?) Carb vs y-gy (dol and ap?) Carb bnds, gdmass is f.g. uniform. these sections up to 50 cm long. @ 422.40 m - 55° TCA.</p> <p>from top to 425 m, sections with qtz and or alb clst/frag locly, typically more hetero si clst up to few cm, dk gy, hard, ± bio, py diss within. @ 428.75 m - 55 ° TCA.</p> <p>minor diss bsn / prs locly below 429.16 m, trace, mod r-og.</p> <p>@ 431.80 m - 3 cm bnd with diss py up to 15%.</p> <p>432.10 to 436.15 m - ibd wk BD zone? bsn/prs grains and clusters up to 5% (mostly <1% still) locly, gdmass locly cr colour, bio v. reduced.</p> <p>436.15 to 438.85 m - return to lt gy-cr dol clst with interwoven bio up to 5%, ctsc text.</p> <p>438.85 m to end - bio reduced (<2%) - small diss clusters (not strings), more homo text, not blotchy ctsc like above. trace diss REflc. Carb is dominantly med gy, minor lt gy bnds/sections. sul consistent to end, up to 15% locly, py cubes up to 3 mm.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 459.71 | 563.11 | dol-Carb | - | <p>@ 441.25 m - half frac with sks, runs into 2 parallel bio planes (vn edges?) c.g. dol xtls at 441.35 m between bio planes also minor qtz.</p> <p>449.83 to 450.98 m and 451.45 to 452.15 m - ibd Glim. sharp upper and lower ctcs; upper ctc have bio radiating away from Glim and solid py border between Glim and Carb up to 5 mm thick; lower ctc have qtz, minor dendritic bio, core broken locky. Glim is back, variably fol, diss euh py up to 5% locky, cc vnlets/strings throughout and cc mtx, bio ~ 90%. @ 449.83 m - 0-30° (variable).</p> <p>450.98 to 451.45 m and 452.15 to 454.60 m - Carb between Glim bnds, similar to Carb above Glim, increased bio frags, locky brc, minor REflc locky. @ 450.98 m - 20-40° (variable). @ 451.45 m - 10-30° (variable).</p> <p>@ 452.15 m - 40° (variable).</p> <p>@ 454 m - dk gy alb? clst, bio and py (up to 1 cm) at edges.</p> <p>454.60 to 457.45 m - ibd Glim, ctcs sharp, top 75 cm is similar to previous Glim bnds, dominantly bio with diss py up to 5%. @ 454.60 m - 35°.</p> <p>455.20 to 456.35 m - w cc/Carb patches (up to few cm) and brc lt gy dol-Carb with bio and py bnds weaving through > 5 cm wide. last m returns to dominantly bio rock, strly fol, mtx has alb? locky and increased Carbonate, py finer grained. 2cm dk gy qtz/alb? bnd at end. @ 455.00 m - 45°. @ 456.75 m - 20°.</p> <p>457.45 to 458.45 m - med gy Carb with lt gy dol clst and common bio strings/fracs, abnt py. @ 457.45 m - 40°.</p> <p>458.45 to end - Carb more y-gy, only minor bio frac, more homo.</p> <p><u>ap dol-Carb (BD zone?)</u></p> <p>y-gy to lt gy, locky med gy, common mod r-dusky r bsn/prs patches and bnds. unit starts mass to wk bnded, ends up strly bnded. f.g.-m.g. dol xtls regularly up to 2 m throughout unit.</p> | | | 459.71 - 496 | 200-330 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy - dol 94%; ap 5%; bsn/prs trace; fl trace; bio trace; sul trace; mnz trace; qtz 1%.</p> <p>unit marked by reduction of bio and sul, more homo text, increased bsn/prs. ap clusters and bnds common throughout unit, reduced from previous, commonly up to 15% locky.</p> <p>above 495.85 m - core mostly mass, no or v. occasional wk bndg.</p> <p>top to ~473.15 m - bns/prs dominantly from clusters, still minor, rarely up to 2%, not in mtx. Carb gy to y-gy. minor frags top few m.</p> <p>@ 461.50 m - on one side of Carb, 14 cm dk gy patch (mag ~10%, py < 5%) followed by 54 cm strip (similar litho to sub-rndg Carb, abnt mag frags). there have sharp ctc with Carb and seem to be late x-cut frac and bnds. dk y-gy bnds with significant mag. these terminate at the strip mentioned above.</p> <p>@461.94 (<1 cm) and 462.10 m (7 cm) are dk y-gy bnds with significant mag. these terminate at the strip mentioned above.</p> <p>qtz vn x-cut occasionally, < 1cm.</p> <p>464.50 to 465 m and 469.15 to 471.50 m - f.g. tan og mineralization diss locky, up to 1%. likely mostly Carbonate, locky REflc?.</p> <p>471.73 to 472.25 m - w lt gy dol clusters, fallowing wk fol, up to 1 cm.</p> <p>473.15 to 475.96 m - Carb commonly mod r due to increased bsn/prs clusters to perv, < 1% but locky up to few %. from 475.35 to 475.65 m - reduced bsn/prs (minor mod r clusters). Carb is lt gy, patchy text. y-gy bnd (late-stage Carb dyke?). @ 475.75 m - 3 cm wide, set in dk gy Carb.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS | |
| | | | | <p>475.96 to 494.35 m - Carb is dominantly lt gy, mass, suc text, dol f.g. to m.g. minor bio and py diss near 476.40 m, < 2%. from 476.95 to 477.35 m - Carb γ-gy and not as homo. from 477.35 to 479.10 m - increased REflc bnds and patches (f.g. in mtx), gradually returning to homo lt gy Carb, ap essentially nil here. occasional r bsn/prs bnds and patches down to 494.35 m.</p> <p>494.35 to 495.85 m - dk gy due to minor frac and abnt f.g. sul.</p> <p>495.85 to 508.35 m - Carb gy to γ-gy, wk mod bndg. only occasional r bsn/prs patches. minor dk gy bnds have increased sul. rare fracs locly. @ 506.10 m - 65° TCA.</p> <p>@ 505.34 m - 1 cm dk gr-blk chl/srp vn? vug one side with v.f.g. b minor sodalite? looks amorphous.</p> <p>508.35 to 512.50 m - common blebby fl bnds, minor down to 518.05 m, up to 30% locly, may have parasitic bsn/prs growth (up to 5%).</p> <p>@ 508.70 and 511.25 to 511.85 m - dk gy f.g. patches, smokey text.</p> <p>@ 510.20 m - 5 cm wide lt ol-gy bnd, late-stage Carb dyke?.</p> <p>512.50 to 526.50 m - lt gy mass suc text dol intermittent, up to 3 m locly, may have sul patches and REflc bnds rare ap. mod to str bndg common, especially away from lt gy homo Carb, r (REflc) pale ol to dk gy (bio and sul) bnds seen. 515.40 to 515.80 m - gdmass dk gy (f.g. sul?) with lt gy dol clusters scattered. @ 517.50 m - 55° TCA.</p> <p>526.50 to 551.10 m - Carb consistently dk with str bndg. dk gy bio sul bnds vs lt gy dol bnds. ap still common, but restricted to certain bnds (not perv). mod r bsn/prs bnds and patches common, typically < 1% but up to 5% locly. @ 533.00 m - 45° TCA. @ 538.00 m - 5° TCA. @ 542.20 m - 55° TCA. 548.25 m - 55° TCA. @ 550.50 m - 55° TCA.</p> <p>below 535.00 m - fl and REflc starts again, uncommon, < 10 cm.</p> <p>@ 534.70 m - a bsn/prs Carb dyke is x-cut bndg, up to 2 cm wide and ~25 cm long, diss bsn/prs up to few %, no ap, other similar dykes x-cut locly, not common.</p> | | | 496 - 511.5 | 300-400 | |
| | | | | | | | | 511.5 - 531.0 | 200-300 |
| | | | | | | | | 531.0 - 550.0 | 300-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|--------------------|------------------|--|-----------|---------|----------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 563.11 | 587.65 | dol-Carb + cc-Carb | | 542.30 to 543.90 m - increased fl but always f.g. blebs diss < 5%. | | | 550.0 - 563.11 | 200-250 |
| | | | | 543.95 to 549.00 m - c. fl blebs, up to 10% locly, parasitic REflc common. | | | | |
| | | | | 551.10 to end - gdmass is homo, lt gy to pale gr-y, esp uniform last ~6m. | | | | |
| | | | | 554.20 to 557.00 m - minor fl bnds, < 5%. no fl or REflc below 557 m . | | | | |
| | | | | 553.00 to 554.00 m - common dk gy bio and sul string/fracs. | | | | |
| | | | | 557.00 to end - similar as above (except wider spaced). ap is perv, in uniform pare gr-y gdmass, probably 20-30%. end of unit where cc in mtx. | | | | |
| | | | | <u>ap dol-Carb with arf ap cc-Carb</u> | | | unit | 200-250 |
| | | | | dol-Carb is dominantly lt gy to pale gr-y; mass, uniform, suc text; bio sul fracs and patches, abnt ap. f.g. to m.g. | | | | |
| | | | | modal mineralogy - dol 88%; ap 10%; bio 1%; sul 1%; fl trace; REflc trace. | | | | |
| | | | | cc Carb is gy-pk to mod pk, minor bnds near top but lrg intervals near end; suc/ foggy text, amph bio shp clusters common locly. f.g. to m.g. | | | | |
| | | | | modal mineralogy - cc 84%; ap 7%; arf 5%; bio 2%; sph 2%; mag trace; ol? trace; py trace. | | | | |
| | | | | at start of unit is cc bnds (pk) and cc in dol-Carb mtx including REflc zone near top - f.g. diss bsn/prs < 1% with dol-Carb pbl and cc mtx. pk cc Carb bnds common down to 564.60m, not abnt again untill 574.50 m. dk gy bnds at 563.85m (6 cm) and 564.20 (15 cm) are f.g. cc Carb with diss mafics (including pch? - elevated Nb). | | | 572.6 | 320 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>dol-Carb for this unit is lt gy to pale gr-y. ap seems to be mostly present in pale gr-y rock. dk gy patches, streaks are v.f.g. sul (sph?) and bio, common.</p> <p>565.95 to 569.75 m - many dk gy to blk bnds - mostly Glim, bio > 70%, brc common with cc itsl, minor alb? clst locky (mostly biotized), sul itsl locky bnds don't exceed 30 cm, dol-Carb and brc fraccd dol-Carb is between them. w cc Carb between Glim bnds 568.60 m to 568.90 m. (last couple m of dol-Carb) towards cc Carb, dol-Carb has increased diss mafic (mostly bio clusters, sph) and text reminiscent of cc Carb; therefore edges of cc replacement here. also cc content in Carb increases.</p> <p>567.00 to 567.50 m - fl belbs/clusters in dol-Carb, and minor from 574.00 to 575.70 m.</p> <p>below 575.60 m - cc Carb dominant, dol-Carb bnds all < 1.3 m, mostly < 50 cm. dol-Carb dykes x-cut cc Carb locky therefore sharp and gradational ctcs between two Carb types.</p> <p>@ 580.15 m - dol-Carb has faint dk r hue - trace f.g. diss REflc. almost similar bnd at 584.4 0 m.</p> <p>575.60 to end - cc Carb typically has dk gy-b cluster mineralization commonly including mix of bio sph (up to 15% locky), rare mag (< 5% locky), ol ?? (ol-gr, harder, especially at 575.50 m, below 586.00 m) and amph (arf?, b, abnt below 585.00 m, up to 25% locky). rare spfx text (ex: 586 m). ap clusters throughout cc Carb commonly 5-10%, seems to increase in sections of dk mineralization described above (rextld or replaced phoscorites?), up to 15% here.</p> <p style="text-align: center;">E.O.H</p> | | | | |

GEOLOGICAL DRILL LOG

Durante
OGG # 223

| | | | | |
|--|---|--|-------------------------------------|----------------------------------|
| Property: Eldor Property | Easting (m): 539237.04 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 22, 2011 | Downhole Survey: Yes |
| Expl. Area: Beckling | Northing (m): 6312877.06 | Rig Type: Discovery I | Date Completed: Sep 23, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087796 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 7.62 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 151.79 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: A. Durante | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 6.45 | OVB | - | <p><u>OVB/casing</u></p> <p>approximately only 0.70 m of core, siliceous frags, dol-Carb frags etc, casing pulled.</p> | | | | |
| 6.45 | 74.06 | dol-Carb | - | <p><u>bio qtz dol-Carb?</u></p> <p>v.f.g. to f.g., y-gy to pale gr-y, hetero interval. dol-Carb can be locly mass (faintly mottled but fairly homo), to strly brcd (mtx-sup with dol clasts up to 10 cm in a bio and dol and qtz gdmass, perhaps caused by silica-rich fluid moving through, high-T altration especially in more bio-rich sections?) to v.v.f.g. and fold (few elongate clsts parallel with fol which seems to be a ductile feature, with the appearance of few sigma clsts). in general, these texts vary locly and are often in sharp ctc with one another. overall, v. wk rxn with HCl. sparse fl streaks and blebs throughout, trace overall. trace v.v.f.g. diss sul throughout, in more y sections of dol-Carb, there is sparse-common (locly varies) of b-w UV fluorescent min - ap? also trace ap within qtz vnlt.</p> <p>modal mineralogy - dol-Carb 60%; bio 10-12%; qtz (+fsp) 28-30%; suls 3-4%; fl trace; ap trace; chl trace.</p> <p>6.92 m to 23.38 m - all reoccur throughout from sharp to somewhat gradational transitions, and varying strengths.</p> <p>6.92 m to ~9.00 m - v.f.g.-f.g. y-gy, mass dol-Carb with few bio ± qtz vnlt. faintly mottled with few gy transparent qtz patches no fol few ap? clsts/patches.</p> <p>~9.00 m to 9.95 m - med gy to y-gy dol-Carb (?) brc, with abnt siliceous clsts (ang-sub-rnd) qtz fsp and common bio vnlt and bnds displaying wk to mod fol (some elongate dol-clst sections looking like there was some ductile influence). Si-rich ctsc hydrothermal overprint?</p> | fol | | avg | 250-300 |
| | | | | | | brc | | |
| | | | | | | ctst | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 9.95 m to 13.28 m - wkly fold dol-Carb? section is dominantly dk gr-gy chl-rich gdmass (and dol) with abnt dol-Carb vnlt-s vns defining fol at ~63° TCA. (difficult to tell what is gdmass and what is clsts). | 10.20 m - fol ~63° TCA . 12.40 m - fol ~55° TCA. | | 15.50 | 400 |
| | | | | 13.28 m to 17.15 m - dol-Carb brc with abnt qtz fsp clsts-bnds and abnt y-br dol vnlt-s-bnds. gdmass is mainly dol, but locky varies to dkr gy varieties that seem bio-rich, but too f.g. to distinguish. again, wk-mod fol displayed with elongate clsts and vnlt-s of varying lithos. | | | 16.50 | 450 |
| | | | | ~18.14 m to 19.60 m - v. peculiar brc txt. gdmass is v. well fol dol bio qtz mix but there are abnt dol clsts, (dol-Carb clsts sometimes display pkl text with diss bio specs within) mostly elongated parallel to fol (evidence of schistosity?). some clsts however are sub-rnd and not elongated but show evidence that they could potentially be/are sigma clsts. (shows direction and orientation) clsts up to 4 cm wide. (why some are elongate and others are not perhaps compositional influence?), bio vnlt-s often wrapping around. | | | 17.5 {XRF:<1 % tree | 525 |
| | | | | 23.38 m - partially open vn-vug infilled with v. pale pk carbonate min (rhodochrosite?) - rest is filled with qtz and bio and or phl. | | | 18.50 | 400 |
| | | | | 29.40 m to 29.69 m - v.v.f.g. pale pk-r min diss within carb (REflc?). | | | | |
| | | | | 30.60 m to 30.95 m and 32.07 m to 32.62 m - v. strly fold dol-Carb and qtz. fol is planar and ~73° TCA. all clsts in this section are elongate and parallel to fol, at the 32.44 m, there is a small micro-fold (symmetric, hinge point is in roughly same orientation as fol). | | | | |
| | | | | note - Si-rich portions, in general, tend to be a medium b-gy colour. | | | | |
| | | | | 40.45 m to 40.53 m - ~2 cm bnd of v.f.g. dol and chl? and phl? bnd is a vibrant turquoise-br colour and sort of looks like the colour of northern lights. | | | | |
| | | | | 44.69 m to 44.99 m - v. thin po vnlt-s following orientation of fol (~47° TCA) - sparsely reoccurs dominantly in bio-rich sections. (small blebs as well) (eg 18.58-48.98 m) | 44.75 m - fol ~47° TCA | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@48.80 m - "textbook" sigma clsts displaying ductile movement and orientation of movement. a lot of these reoccur throughout brc zones.</p> <p>aside: in some brcd portions, brc can be locly clst sup, but overall it is mtx sup.</p> <p>common bio-rich bnds, mainly bio qtz and are v. dk b-blk with sparse po vnlts, commonly reoccur.</p> <p>65.08 m to 65.16 m - bright p fl blebs and diss around w dol-Carb - contrast is str.</p> <p>~67.08 m - starting here, sparse bio-rich bnds-patches with abnt itsl cc within.</p> <p>70.62 m to 70.75 m - pale y dol-Carb (?) and with abnt itsl cc to v.f.g. and thin cc vnlts within?</p> <p>~72.50 m to 73.00 m - dol-Carb displays subtle prtc text (occurs earlier in interval locly, but is most dominant here.)</p> <p>73.63 m - evidence of a bio stylolite.</p> <p>@72.08 m - subtle ol-gy v.f.g. dol-Carb bnd with 415 CPS XRF: <1% TREO.</p> <p>interval ends because of distinct change in text and drastic increase of cc.</p> | | | | |
| 74.06 | 114.38 | - | - | <u>cc qtz bio gn? (metased)</u> | | | avg | 175-250 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>aph-f.g. gr to blk-gr-gy to lt ol-gy to med lt gy to med gy cc-rich gn? v. str fol apparent throughout core, all v. planar and approximately perpendicular TCA. abnt elongate clsts (commonly 1-2 mm) concordant with fol - displays schistose? fol defined by abnt cc bnds and elongate clsts, bio bnds and dol-Carb clsts-bnds, and qtz fsp bnds gdmass is dol-cc-bio-rich, but too f.g. to distinguish ± v.f.g. qtz diss throughout. color varies in locl sections, common bio specs that are not oriented with fol later event? (this makes me believe it may not be a gn or a mylonite, but maybe a Hfls?). metased for sure though. common qtz vns and brcd portions throughout (with large elongate clsts up to 3 cm following fol ± sigma clsts, as described in previous interval).</p> <p>common dk y-og bnds and vnlt, aph, dull and non-xtln at all. v. soft - product of clay?</p> <p>common sul vnlt and diss throughout, dominantly po and py.</p> <p>modal mineralogy - cc 40%; qtz and fsp 40%; bio 10-12%; sul trace; dol (and other carbonates) 8%.</p> <p>74.06 m to 77.31 m - in aph-f.g. med b-gy to v. lt gr-gy mottled with wker fol than rest of interval. can see common with cc patches and clsts (elongate to fol), but unit still looks like dol-Carb, but very cc-rich. few qtz clsts with wk sigma features.</p> <p>77.31 m - after this, core is distinctly aph, and dkr gy to gr-gy with sparse brcd portions as described in previous interval.</p> <p>83.50 m to 83.63 m - cc clsts all oriented along fol and flattened out, locally displays lineation. subtle boundaries, looks slightly prtc? - reoccurs throughout.</p> <p>aside: in general, bio specs seem to be concentrated within bnds.</p> <p>83.32 m - ~1 cm qtz vn x-cuts fol, then later stage (?) cc vnlt x-cuts qtz vn.</p> <p>@87.44 m - ~1 cm dol-cc clsts elongated so much that it almost wraps around entire core to look like a bnd. perhaps this is what is happening throughout, high stress exerted on rock to create v.f. fol on <1 mm scale - clues to a mylonite. strength just varies locly?</p> | str fol to ~90.00 m | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|---|-------------|---------------|------------|
| | | | | | | | DEPTH (m) | CPS |
| 114.38 | 120.10 | - | - | <p>~90.00 m - end - fol is v. str and planar. "compositional bnds" defining fol have clean ctc and there is no variation in angle TCA. all at ~65° TCA.</p> <p>96.80 m to 97.47 m - abnt c.g. suls (py ± po) inconcentrated bnds and vnltts, up to 0.5 cm. general increase in qtz in this area (qtz vn?) - in association with the dk y-og bnds (?).</p> <p>107.00 m to 109.00 m - gradual tranistion from 65° fol to 55° fol.</p> <p>111.67 m to end - loclized prtc text, concentrated in bnds</p> <p>111.96 m to 112.28 m - core is so aph but comp variations strly define small parasitic folds within loclized section. still cc-rich.</p> <p>interval ends because of distinct change in text.</p> <p><u>qtz fsp calcium Carb(?)</u></p> <p>aph-v.f.g. med b-gy to med gy cc-Carb?, with common v.f.g. amph? (looks like amph needles, but hard to tell because so f.g.) and abnt siliceous mins throughout. dk b-gy portions Si-rich (qtz fsp and diss cc). core displays prtc text with abnt cc blebs-bnds-swirls. cc is oriented along wk fol and displays wk parasitic folds throughout. rare bio stringers and diss throughout. rare pale ol-gr dol-Carb clsts/bnds (elongate, so hard to tell) with fl within.</p> <p>few v. dk gy euh blk clsts, aph, looks like bio and diss sul?</p> <p>modal mineralogy - cc-Carb (and cc) 92%; qtz fsp 8%; amph trace; dol-Carb trace; fl trace; bio trace; suls trace.</p> <p>118.55 m to end - grams are significantly more aph, parasitic folds slightly more defined.</p> <p>fol ~perpendicular TCA throughout (wkly defined).</p> | <p>planar fol</p> <p>paraitic folds</p> <p>wk fol and parasitic folds</p> | <p>prtc</p> | <p>avg</p> | <p>200</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|--|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 120.10 | 151.79 | - | - | <p>119.58 m to 119.80 m - core is incredibly broken up - possibly small scale fault?</p> <p>interval ends because of distinct change in text and abundance of cc decreases.</p> <p><u>metasediment?/gn?</u></p> <p>aph-v.f.g. med b-gy to dk gy to gy-blk gn? abnt clsts (both homo and pkl) elongated along str fol (evidence of schistosity and influence of shear zone). interval mainly siliceous rock (qtz fsp) and common bio bnds and clsts - metased? few loclized sections of abnt itsl cc. overall, this unit is very similar to the gn described earlier. common sigma clsts. clsts of dol-Carb, qtz, bio etc. text- pkl clsts throughout.</p> <p>modal mineralogy - qtz fsp 80%; cc 5%; bio 15%; suls trace; dol-Carb trace.</p> <p>interval is so f.g. that it is difficult to decipher what gdmass is actually made up of. my best guess is v.v.f.g. qtz fsp diss bio ± few carbonate mins.</p> <p>120.10 m to 122.04 m - aph, fairly mass cc-rich metased with distinct prtc text. common to abnt qtz bio clsts diss throughout no fol within this portion clsts maximum 1 cm.</p> <p>122.04 m to end - core is mod to str fold approximatly perpendicular TCA. the rest is exactly like previously described "brc" portions of dol-Carb unit and gn, just much more siliceous.</p> <p>in bio-rich bnds, common po blebs and vnlt.</p> <p>few milky w qtz vns eg(130.17 m).</p> <p>some clsts have "augen" shape to them (in association with sigma clsts).</p> <p>note: sections where there is no cc, and locl sections dominated by cc. v. sporadic distribution.</p> | ftt | | avg | 175-200 |
| | | | | | shear zone? v. strly fold ~perpendicular TCA | fold | | |
| | | | | | fol | prtc | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | some more br loclized sections (eg 142.00 m - 142.40 m) perhaps phl-rich? altration product? 149.95 m to end - identical to v. well fold gn (cc-rich). EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 539174.08 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 24, 2011 | Downhole Survey: Yes |
| Expl. Area: Beckling | Northing (m): 6312928.77 | Rig Type: Discovery I | Date Completed: Sep 25, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087796 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 5.18 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: BTW | End of Hole: 142.34 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|---------------------|------------------|--|----------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.50 | OVB | - | <p><u>ovb</u></p> <p>overburden/in-casing no core recovery</p> | | | | |
| 3.50 | 18.20 | dol-Carb + Non-Carb | - | <p><u>bio-rich dol-Carb brc</u></p> <p>lt gy to y-gy v.f.g. dol-Carb; that is often brcd and altd by med dk gy to dk gy bio-rich gdmass; this happens in bio-rich patches/vns in more mass dol-Carb sections and by ctsc brcn of dol-Carb by bio-rich gdmass, some brcd sections are well fol; dol-Carb clsts/sections often show qtz vning, that might be associated with the hydrothermal? brcn or a later event; brcn might be hydrothermal by a high-T Si-rich fluid resulting in formation of bio; in brcd sections one finds also med gy non-Carb clsts, which might be some kind of WR clst.</p> <p>modal mineralogy - dol (+ other carbonates) 84%; bio/phl 10%; qtz 4%; sul 2%.</p> <p>3.50 m to 7.00 m - v. hetero and broken core with different lithos and 1.75 m core loss at 5.18 m → suggests that these are only bldrs; the lithos comprise: brcd med gy siliceous v.f.g. rock; lt ol-gy to ol-gy v.f.g. dol-Carb with abnt euh mag; v. lt gy unmineralized dol-Carb.</p> <p>7.00 m to 9.25 m - mostly lt gy to lt y-gy v.f.g. dol-Carb with min bio-rich vnlt, few sections are strly brcd with elongated clsts, which create a moderate to high fol together with the bio-rich vnlt (see especially 7.25-7.50 m).</p> <p>9.25 m to 10.15 m - abnt med lt gy and min lt gy to y-gy dol-Carb clsts of up to 20 cm in a clearly clst-sup brc, gdmass/mtx is again bio-rich.</p> | bldrs? | | overall | 250-350 |
| | | | | | 7.40 m - fol 50° TCA | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>10.15 m to 11.90 m - dol-Carb clsts/sections of up to 30 cm often interrupted of med dk gy to dk gy bio-rich gdmass that contains small dol-Carb clsts and med gy siliceous clsts? that are strly dfmd and might as well be part of the gdmass with less bio?</p> <p>dol-Carb clsts show often qtz veining and patches.</p> <p>11.55 m - min fl in gdmass in 10 cm section.</p> <p>11.90 m to 12.40 m - abnt med gy v. elongated siliceous clsts in dk gy bio-rich gdmass, clst-sup.</p> <p>12.40 m to 13.25 m - lt ol-gy dol-Carb with abnt qtz vnlt/vug brng it, but still fairly mass appearence.</p> <p>13.25 m to 16.15 m - min to abnt sub-ang dol-Carb clsts of few mm to 20 cm, there might also be again med gy siliceous clsts, but they could also be some kind of compositional variation of the dk gy bio-rich gdmass. the bio-rich gdmass could also have been produced during rxns in a hydrothermally triggered brcn of the med gy siliceous rock and the dol-Carb, that are still both present as clsts; associated with dol-Carb are qtz vns and patches.</p> <p>16.15 m to 18.20 m - dol-Carb bnds (which might be strly defmd clsts) and med dk gy to dk gy bio-rich bnds interlayered; locky the dk gy bnds have med gy patches (again clsts of part of gdmass?); locky strong fol visible; again str qtz formation associated with dol-Carb.</p> <p>end of unit is based on the onset of more mass dol-Carb with min bio altn and an increase in RA.</p> | | | | 400-500 |
| 18.20 | 37.50 | dol-Carb | - | <u>dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|------------|---------------------|---|-----------|---------|---------------|--|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mostly mass section of lt gy to lt ol-gy v.f.g. to f.g. dol-Carb with very few features of siliceous altn; texture is mottled arising from the colour variation from lt gy to ol-gy; often cut by small brittle fracs that are often infilled with fl that often gets replaced by lt ol-gy to ol-gy Fe Carbonates? lead to the assumption, that the dol-Carb was altd/impregnated by fluids derived from a F-Carb, this altn comes with an increase of grain size and an increased amount of sul, few qtz vnlt x-cut throughout.</p> <p>modal mineralogy - dol (and other carbonates) 96%; fl 2%; sul 1%; qtz 1%; bio trace.</p> <p>19.45 m to 20.20 m - minor hydrothermal influence with bio-rich gdmass brcn dol-Carb in few bnds.</p> <p>26.75 m to 27.00 m - v. lt gy v.f.g. home dol-Carb with several fl and bio vnlt x-cut, no F-Carb overprint; upper ctc is continuous, lower ctc is sharp to overprinted dol-Carb.</p> <p>27.00 m - 27.40 m - lt ol-gy to ol-gy f.g. sul-rich F-Carb gdmass. brecciates dol-Carb in ang elongated clsts, few qtz and fl vns and patches in gdmass</p> <p>34.20 m to 37.50 m - v. lt gy to lt gy v.f.g. dol-Carb with min to abnt sections/dykelets? of lt ol-gy F-Carb overprinted dol-Carb.</p> <p>end of unit is end of mass dol-Carb section and beginning of siliceous altn of dol-Carb</p> | | | | constantly decreasing from 1200 to 350 |
| 37.50 | 91.91 | dol-Carb + | - | <p><u>bio-rich dol-Carb brc</u></p> <p>very hetero unit; mostly lt gy and lt ol-gy dol-Carb brcd by med dk gy v.f.g. bio-rich gdmass; often there are also med gy to dk gy v.f.g. elongated clsts that seem to be brcd by dolomitic gdmass, these clsts are siliceous Non-Carb rocks, which might be some kind of siliceous WR; since the brc often shows str fol and continues in a potential Myl, the dol-Carb and siliceous WR could have been tectonically brcd and brought together, which most likely happens under fluid influence producing bio-rich or dolomitic gdmass by dissolving parts of the two lithos.</p> <p>minor sections show undfmd dol-Carb similar to previous unit and v.f.g. lt gy dol-Carb.</p> | | | overall | 250-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>qtz occurs in few patches and mass vug.</p> <p>modal mineralogy - dol (+ other carbonates) 80%; bio 15%; qtz 3%; sul 2%.</p> <p>37.50 m to 38.45 m - mass med dk gy v.f.g. bio-rich clsts/bnds with min irregular dol-Carb clsts, med dk gy gdmass might also be clsts or derived from clsts, since it loclly gets brc by dol-Carb gdmass.</p> <p>38.45 m to 39.90 m - lt gy to lt ol-gy dol-Carb with min v. lt gy patches (clsts?/rextln?) and minor dk gr-gy bio-rich patches/blebs/vnlts loclly brcg dol-Carb.</p> <p>39.90 m to 42.25 m - lt gy dol-Carb with min to abnt dk gr-gy siliceous gdmass altering and brcg dol-Carb, loclly well fol with elongated dol-Carb clsts.</p> <p>42.25 m to 49.25 m - mass section of v. lt gy to gy-og v.f.g. dol-Carb with min bio vlts x-cut, few bnds with bio-rich gdmass brcg dol-Carb (see esp 45.50-46.10 m, 48.00-48.90 m) few qtz vnlts.</p> <p>49.25 m to 51.90 m - lt ol-gy dol-Carb brcd by abnt bio-sul-rich vnlts, all cutting in same direction creating a moderate fol.</p> <p>51.90 m to 53.60 m - dk gr-gy siliceous/dolomitic v.f.g. gdmass with minimal to abnt mod dfmd dol-Carb clsts of up to 5 cm and min dk gy siliceous (metased?) v. dfmd clsts/bnds → dol-Carb seems to behave more competant than dk gy metased? clsts during dfmn.</p> <p>53.60 m to 53.90 m - v.f.g. homo lt gy dol-Carb → large clst or dyke?</p> <p>53.90 m to 54.95 m - abnt dk gy bnds/dfmd clsts? brcd by min dk gr-gy dolomitic/siliceous gdmass.</p> <p>54.95 m to 55.75 m - mt-x-sup brc with lt gy and v. lt gy slightly dfmd dol-Carb clsts of up to 6 cm in lt gy to med lt gy v.f.g. dol-Carb gdmass with min bio vnlts.</p> | <p>42.20 m - fol 81° TCA</p> <p>50.20 m - fol by bio vnlts 82° TCA</p> <p>54.45 m - bnding/clst elongation? 74° TCA</p> | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|--------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>55.75 m to 56.95 m - lt gy fairly homo v.f.g. dol-Carb with few infilled brittle fracs and trace bio vnlt.</p> <p>56.95 m to 83.20 m - mostly clst-sup brc with abnt lt gy to y-gy slightly dfmd dol-Carb clsts of up to 10 cm in v.f.g. dk gr-gy siliceous/dolomitic sul-rich gdmass, locally dol-Carb clsts are elongated and often are cut by qtz vnlt; dol-Carb also occurs in larger section up to 60 cm, which might be larger clsts (see especially 76.35 m to 77.05 m) of metased?, that are strly elongated throughout; meanwhile there are no sigma-clsts indicating movment during dfmn.</p> <p>elongated clsts: 73° @ 60.20 m, 75° @ 65.80 m, 69° @ 70.25 m, 69° @ 74.50 m, 50° @ 79.10 m, 62° @ 83.00 m, 77° @ 83.20 m.</p> <p>80.80 m to 82.20 m - homo f.g. med dk gy siliceous rock (metased) with abnt qtz dol vns/patches brcg rock.</p> <p>83.20 m to 84.75 m - lt gy to med lt gy mottled v.f.g. dol-Carb with min to abnt qtz bleb/vns/vnlt.</p> <p>84.75 m to 85.90 m - mtx-sup brc with minimal to abnt deformed dol-Carb clsts and dk gy strly dfmd metased? clsts in med gy siliceous/dolomitic bio-sul-rich gdmass.</p> <p>85.90 m to 86.65 m - Myl? with v.f.g. strly fol med gy gdmass with min dk gy bnds → ground up alt brc from above during shring?, dolomitic and bio-rich.</p> <p>86.65 m to 90.15 m - mtx-sup brc with min to abnt strly elongated dol-Carb and dk gy metased? clsts in gr-gy v.f.g. gdmass, few sections of up to 25 cm of mass dol-Carb (might be larger clsts).</p> <p>90.15 m to 91.91 m - lt gy fairly homo v.f.g. dol-Carb with min med lt gy patches, min qtz vnlt/patches, few w dol patches and trace sul.</p> <p>end of unit is onset of continuos Myl.</p> | | | | |
| 91.91 | 142.34 | dol-Carb | - | <u>qtz-bio-rich dolomitic/calctitic Myl</u> | 86.40 m - fol 68° TCA | Myl? | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|----------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v. well fol med gy v.f.g. Myl with abnt med dk gy and dk gy bnds interlayered on a mm scale; the dker bnds are bio-rich and don't contain carbonates, the med gy gdmass contains abnt cc and/or dol; this Myl is probably the shrd and ground-up product of the siliceous altd dol-Carb/metased? brc from above with the dk gy and lt gy small bnds being relics of the x-fold elongated dol-Carb/metased clsts; there are few sections where dfmn/Mylonitization is less str and dol-Carb and metased clsts are visible and better defined; other sections show folding; loclly there is str hydrothermal mineralization of qtz and c.g. pegmatitic dol/cc and min sul; f.g. isometric bio blebs occur throughout, which indicates post-tectonic mineralization.</p> <p>foln: 69° @ 93.25 m, 78° @ 98.75 m, 70° @ 106.15 m, 65° @ 111.95 m, 59° @ 117.80 m, 70° @ 123.75 m.</p> <p>modal mineralogy - dol/cc 68%; bio 25%; qtz 5%; sul 2%.</p> <p>94.00 m to 94.75 m - abnt hydrothermal qtz and min dol/cc min and sul (py an po) in up to 20 cm vns. similar from 96.90-97.60 m.</p> <p>96.00 m - core cuts through fold closure with fold axis being perpendicular TCA, fol turns only from 53° to 59° before to after fold closure; foln is defined by med gy and dk bnds while med gy bnds comprise abnt distinct dol-Carb? grains of few mm, that are strly elongated right at fold closure, direction of elongation is parallel to fold axis. → folded after Mylonitization in rest of the unit these small dol-Carb? grains are elongated parallel to fol.</p> <p>102.75 m to 103.60 m - several features of folding with fol turning.</p> <p>121.50 m to 124.40 m - v. well fol Myl interlayered with 5-20 cm bnds with med gy dolomitic/cc gdmass and min f.g. dol blebs → looks almost like magmatic texture.</p> <p>124.50 m to 142.34 m - less dfmd Myl, where dol-Carb clst shapes are still visible, dk gy metased? clsts are mostly strly dfmd to bnds; few dol-Carb clsts indicate movement by showing sigma clsts and broken shrd clsts (see especially 125.40 m); med dk gy to med gy gdmass is still dol/cc-rich.</p> | isoclinal fold | | | |
| | | | | EOH | | | | |

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536138.92 | Drill Company: Bodnar Drilling Ltd. | Date Started: Sep 26, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312196.98 | Rig Type: Zinex A5 | Date Completed: Sep 30, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 426.11 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 4.19 | 50.00 | dol-Carb | A → A/B-T | <p>No ovb core from start of box</p> <p><u>dol-Carb</u></p> <p>pale ol, locky y-gy or lt ol-gy. mottled text most common, locky psd-brc. fl patches common. f.g.</p> <p>modal mineralogy: dol (other carbonates?): 96%; fl: 4%; py: trace; REflc: trace; lim: trace; qtz: trace; mnz: trace.</p> <p>no ovb recovered starts in core - rnd edges and fracturing common down to 7 m, wthd.</p> <p>@6.10 m - broken/crushed, lim patches and frac coating common down to 11 m.</p> <p>text fairly consistent for unit, hetero, mottled. cr-y gy dol clusters are rnd, surrounded by pale ol Carb.</p> <p>fl distributed evenly throughout unit, not perv - blebs congregate in small patches <20 cm, typically 5% but locky up to 15%.</p> <p>late stage Carb dykes seen at 14.85-16.25 m and locky bellow 36 m, otherwise v. rare.</p> <p>17.50 m to 21.65 m - core v. broken, commonly vertical fracs.</p> | | | unit | 400-550 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 50.00 | 141.48 | dol-Carb | A | <p>21.25 m to 28.15 m - pale gr gdmass is more prevalent, homo f.g., fl blebs and cr-y gy clusters common but locally overprinted by pale ol Carb?</p> <p>dominant fl patches from 32.55-33.10 m, at 34.15 m and 41.40 m, locally brc, smaller blebs nearby.</p> <p>33.10 m to 34.00 m - abnt y-gy to mod-y clusters and patches. also abnt br specks diss through here, up to 5% (commonly around rusted py xls, REflc? locally (trace)). 1-3 cm wide qtz vn at 33.30 m, 20 cm long.</p> <p>@35.00 m - dk gy stringy qtz? vn - hard with f.g. met sul diss (sph?).</p> <p>36.10 m to 36.50 m - gr-blk patches - chl/serp?. surrounding Carb is homo with common frags (connected to chl patches), all locally x-cut by late stage Carb locally.</p> <p>37.25 m to 38.15 m - y-gy to cr clusters/patches dominant, hardly any pale ol gdmass. fl blebs also abnt, dk p (+mnz?) and also pale p grains. lt ol-gy late stage Carb dyke cutting Carb along CA.</p> <p>Carb pk around 41.70 m, minor f.g. fl-REflc diss, also aph og-pk mins mixed in with coarser grained dol - ground up?</p> <p>44.00 m to 49.00 m - Carb fairly homo, pale ol gdmass dominant, only rare fl patches or late stage Carb dykes. diss serp? blebs throughout.</p> <p>49 m to end - y-gy clusters with minor pale ol gdmass, abnt perv fl ~5%, homo.</p> <p>CPS increases near end up to 650. lower ctc at RA increase.</p> <p><u>dol-Carb</u></p> <p>pale ol. v.hetero text - scrambled/patchy/mottled/psd-brc/brc. lim patches locally, mod-dk r-br. f.g.</p> <p>modal mineralogy: dol: 96%; fl: 3%; lim: 1%; REflc: trace; mnz: trace; py: trace.</p> | | | unit | 700-1400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>v. minor fl from top to 59.80 m, only a few. clusters locly. y-gy clusters/patches also not common Carb is fairly homo, faint patchy-mottled text.</p> <p>59.80 m to 60.50 m - dominant fl patch, dk p, up to 90% fl. mnz?</p> <p>@ 58.50 m - f.g. qtz-py vn/dyke brcg Carb and entraining clsts, 6 cm wide.</p> <p>late stage Carb dyke minor for top portion of unit, vary in composition/mineralogy - y-gy, pale ol and lt ol-gy varieties seen, may be layered, typically aph and uniform.</p> <p>below 60.50 m - y-gy clsts/clusters more common/abnt, Carb stronger mottled or psd-brc text. fl blebs also more common. homo sections locly "ibd".</p> <p>below 65.30 m - increasingly hetero, y-gy dol clusters/clsts up to 1.5 cm locly.</p> <p>@ 66.85 m - dol clusters and fl blebs, wkly aligned/follow fol - shrd? dol clsts stretched. more similar bnds locly down to 72 m, minor.</p> <p>ctc between texts range from gradational to sharp (may have bnds running between texts - dykes?).</p> <p>Carb is locly mass/patchy text with mass gdmass and mottled Carb, lt gy - pale ol commonly fracc (fine fracs, variable infill).</p> <p>below 72.50 m - Carb is dkr, pale ol - lt ol-gy. scrambled-mottled text, v. hetero.</p> <p>73.25 m to 73.65 m - dense late stage Carb dykes, lt ol-gy to gy-ol gr. Carb in between bnds has perv fl mnz blebs. all cut by late fl vnlets. late stage Carb dykes more common below here than above.</p> | | | 52-61 | 900-1200 |

@ 66.95 m -
fol/shr msmt
35° TCA.

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>74.00 m to 80.35 m - gdmass is speckled with v. minor but fairly perv f.g. fl blebs. text more smeared where dykes x-cut. late fl vnlets fairly common down to 76.50 m.</p> <p>py/sul patches locly - typically dk gr-brassy. also vnlets/fracs and associated with late Carb dykes locly.</p> <p>@77.50 m - pale ol brc dyke?, w dol grains floating in mass mtx, mod fracs, 8 cm wide.</p> | | | 74.25-115 | 900-1400 |
| | | | | <p>79.51 m to 79.75 m - Carb is fracd with gaps up to 1 cm, infilled with chl/serp? amph? and diss py, minor fl, lim → dk gy met min common near lim patches - Nb-ilm (filling are mag, up to 2.3% Nb).</p> | | | 79.25 | 1400 |
| | | | | <p>below 80.25 m - lim is minor-common, locly up to 5%, various patches and frac fill, mod-dk r-br. especially at 80.50-80.85 m, 91.55-91.95 m and at 100.25 m. becomes more abnt further down, see below typically wthd, vuggy.</p> | | | | |
| | | | | <p>83.25 m to 84.35 m - abnt y-gy to gy-y patches and clusters, continues below but reduced. fl mnz clusters locly up to 5% nearby.</p> | | | | |
| | | | | <p>84.37 m to 101.45 m - increased fl patches, clusters, blebs, streaks (perv) commonly up to 5%, larger patches 10-20%. mnz associated (?), minor diss py. lat fl fracs/vnlets also increased through here.</p> | | | | |
| | | | | <p>@89.50 m - cr dol filled frac network for ~20 cm, rare dk p fl grains at core.</p> | | | | |
| | | | | <p>@89.78 m - frac plane polished smooth - slip plane?</p> | | | | |
| | | | | <p>Carb continues to be scrambled - patchy-fracd/brc - strly mottled.</p> | | | | |
| | | | | <p>96.15 m to 96.65 m - dk gr patches and infilling heavily fracd Carb. mineralization includes bio (5-15%), sph (5-15%), serp (2-5%), py (2-5%), and po fl REflc (all trace). at the end of this section are pale gr-y bnds/dykes <1 cm thick.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>101.95 m to 106.85 m - lim patches, vugs, frags are abnt (5-15%) and v. abnt from 106.85-111.60 m (5-50%). again med-dk r-br, Carb increasingly wthd and vuggy. parasitic replacement of fl by lim.</p> <p>111.60 m to 112.15 m - y-gy to gy-y Carb, brcd (clst-sup, ang clsts) minor fl blebs. lim locky.</p> <p>112.15 m to 127.50 m - text is more homo with pale ol gdmass and abnt fl patches, bnds, clusters comonly up to 15%. gy-y dol clsts/clusters also common. overall strly mottled. minor lim down to 112.70 m.</p> <p>127.50 m to end - Carb similar to above but more homo, gdmass more dominant and mass, overall not as strly mottled. reduced fl (+ REflc? more r) no gy-y clusters.</p> <p>important fl patches at 139.70 m and 140.75 m, both dk p, mass, +mnz?. fl >70% within. also large fl patch at 131.55 m, 2-3 cm, well defined edges like a clst.</p> <p>112.15 m to end - late stage Carb dykes minor.</p> <p>abnt diss suls and frags till 134.30-134.50 m, dk gy-gr and gold, up to 2%. py cubes to 4 mm.</p> <p>fault/minor slip plane at 134.50 m? - text offset and frac filled with slippery bio. large dk fl bnd lower side (no corresponding bnd above), <10 cm long.</p> <p>sharp lower ctc with Glim, bio strings/fracs radiating into Carb.</p> <p><u>dol Glim</u></p> <p>blk-v. dk br. mass, f.g.</p> <p>modal mineralogy: bio: 95%; dol: 5%.</p> | | | 105.00 | 1400 |
| 141.48 | 145.50 | Glim | - | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 145.50 | 199.68 | dol-Carb | - | <p>both ctc sharp with Carb. Glim seems to be later/intruding Carb, mod-abnt bio strings leading into Carb from Glim. minor small Carb frags with in Glim at ctc.</p> <p>unit is dominated by bio, no notable text.</p> <p>142.20 m to 145.20 m - cr dol blebs/visicule diss, small at both ends but up to 5 mm near centre, rnd. up to 15% locly.</p> <p><u>fl dol-Carb (A to A/B Zone)</u></p> <p>med gy-pale ol, y-gy. hetero text, strly mottled psd brc prevalent, locly patchy, some mass sections. fl blebs, vnlets, patches are perv. but locly reduced (couple sections with abnt fl). f.g.</p> <p>modal mineralogy: dol (carbonates): 95%; fl: 5%; py, suls: trace; mnz: trace; ap: trace; REflc: trace.</p> <p>bio/Glim dyke running from ctc along CA down to 146.73 m. along it small bio stringers invading Carb. minor bio patches scattered in Carb too.</p> <p>Carb down to 152.53 m is y-gy with only minor fl, locly up to 5% but mostly <1%. text more homo than most of unit, locly mass but otherwise mottled psd-brc. gy-y patches/clusters common in minor zones. minor frags, f.g. sul fill.</p> <p>152.53 m to 157.50 m - Carb gdmass is med gy to pale ol to med b-gy, f.g. y-gy bnds/patches common. text is patchy-mottled. abnt fl through here - blebs, patches, form wk bnds locly, oriented along CA. fl 5-30%, dk patches have sharp ctc with Carb, >90% fl with minor mnz? (153.21-153.70 m).</p> <p>late stage Carb dykes through unit are minor overall, locly abnt, pale ol to y-gy, typically <1 cm but up to a few. may be uniform or layered (+suls?), sharp ctc with Carb.</p> <p>ap essentially non-existent this unit save for a couple v. rare bnds, < 5% locly.</p> | | | 145.50-152.53 | 550-650 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>157.50 m to 170.80 m - pale ol Carb with reduced fl. text fairly homo, wkly mottled locky, minor mass sections. cr to y-gy grains/cluster locky, not abnt. fl is common but fine blebs and rare patches, mostly 1-2%, locky up to 10%, may have py, mnz? associated.</p> <p>@160.90 m - small vug filled with lt gr talc and py. more of these vugs seen below in mottled Carb and along fracs.</p> <p>161.87 m to 162.34 m - lt gy to y-gy brc dyke x-cut ~along CA. cr rnd dol grains scattered (5-10%) and minor py, fl.</p> <p>169.65 m to 170.85 m - pitted/vuggy wthg, vugs <0.5 cm. minor py, bio, chl, coating and infill of nearby fracs.</p> <p>170.79 m to 181.75 m - fl again abnt - blebs and patches and igr to dol clsts/patches. fl 5-10%. text hetero, mottled patchy. y-gy to gy-y dol patches highlighted by surrounding fl blebs, streaks, diss py up to few % locky. increased late stage Carb dykes through here, mostly pale ol and uniform. minor smaller dykelets locky, less competent/snake through Carb.</p> <p>@171.50 m - 20 cm f.g. mass bnd with abnt fracs x-cut, py chl? infill wthd. gradational ctc with surrounding Carb.</p> <p>171.80 m to 172.14 m - bnds of brc Carb with bio infill/mtx. core broken up locky. Carb clsts same as surrounding, ang, <1 cm, common dk r stain - lim? sharp lower ctc with Carb, Carb is pitted/vuggy for 3 cm below.</p> <p>173.15 m to 173.40 m - good fl bnd/vn, up to 4 cm wide, dk p >90% fl minor diss mnz? and py. sharp ctc with Carb.</p> <p>174 m to 175 m - increased gy-y clusters/patches.</p> <p>174.80 m to 177 m - text much more homo, still faintly mottled-patchy-cloudy. fl trace here, locky up to 5% (rare).</p> | | | 152.53-170.80 | 600-650 |
| | | | | | | | 170.80-188.65 | 450-600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>177 m to 181.75 m - fl again abnt, streaks/patches/blebs avg 5% and up to 25% locly, commonly mnz associated, gy-r, up to few % locly. gy-y carbonate patches (remnant ancestor Carb with fl and pale ol Carb overprinting/replacing? almost has a flowing look), clusters abnt also with intergrown. mtx gy-pale ol. fl gradual decreases towards 181.75 m and gy-y carbonate grains get smaller and wider spaced.</p> <p>180.30 m to 181.75 m - abnt late fl vnlets, ~ perpendicular TCA and x-cut all.</p> <p>181.75 m to 188.11 m - Carb again more homo, foggy-patchy-faint mottled text. reduced fl, minor blebs and patches. Carb is y-gy to gy-y. med gy frags/vnlets throughout - f.g. suls also rare patches locly with vnlets radiating into Carb. Where py is more abnt, they are more gr-brassy.</p> <p>187.50 m to 187.75 m - late stage Carb dyke x-cut, y-gy, streaky-bnded. minor similar diss py. v. similar colour to surrounding Carb.</p> <p>@186.40 m - >1cm mnz patch with smaller patches surrounding with minor fl, >85% TREE on XRF, gy-r.</p> <p>@187.28 m - 4 cm rnd fl patch, pale p and dk p, minor diss py. increasing fl mnz blebs towards 187.75 m.</p> <p>187.75 m to 193.70 m - Carb more med b-gy to pale ol, minor y-gy. text is consistent, well healed brc to psd-brc but no large or gy-y clusters like further up (more discrete). "clsts " mostly <1 cm, ang subang, mostly lt gy but pale ol to y-gy also. mtx or igr is dkr gy to lt ol br. only rare fl patches above 193.70 m (trace).</p> <p>increased suls in mtx and dk gy frags/vnlets, py and sph mostly.</p> <p>189.20 m to 190.20 m - frac along CA, f.g. euh qtz xtls growing here.</p> <p>below 187.75 m - REflc and py diss throughout <1% REflc is og-br.</p> | | | 188.65-199.68 | 650-850 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 199.68 | 204.87 | dol-Carb | - | <p>193.70 m to end - text remains similar (more psd-brc mottled) and fl perv - patches and blebs commonly 5%, +mnz, late fl vnlets locky. common pale ol late stage Carb dykes.</p> <p><u>ap dol-Carb</u></p> <p>lt med gy, minor y-gy (bnds, clsts/patches). brc topsd-brc text, locky wkly bnded. abnt suls - mtx, patches, vnlets/fracs. f.g.-m.g.</p> <p>modal mineralogy dol: 86%; ap: 10%; sph: 3%; py: 1%; fl: trace.</p> <p>ctc picked of text change (no longer mottled) and drop in fl, sharp.</p> <p>dkr gy attributable mostly to abnt sph and py. patches and bnds up to few cm, dominantly sph with coarser py cubes diss. also f.g. suls diss in mtx (but not clsts).</p> <p>unit has rare fl, mostly restricted to small patches and blebs, locky up to few %.</p> <p>ap bnds and clsts are perv, w-pk.</p> <p>brc text dominates with dol and ap clsts, mostly <1 cm (locky up to few cm), sub ang, mtx always dkr.</p> <p>bnds and late stage Carb dykes x-cut locky. minor-mod.</p> <p>lower ctc again at text change and drop in RA.</p> | | | unit | 650-850 |
| 204.87 | 325.95 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>y-gy to mod y to lt gy. patchy-mottled text, fairly homo/consistent. further down unit bnded/fol. minor fl blebs and patches. f.g. CPS locky down to 250.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy: dol (carbonates) 98%; ap: trace; py, suls: 1%; mnz: trace; fl: trace; amph: trace; qtz: 1%.</p> <p>top half of unit is gy to y-gy with minor fl and fairly mass text. further down Carb is y-gy to mod y with common wk-mod fol/bndg and fl more abnt.</p> <p>start of unit down to ~217 m is more mass - faintly mottled with common vuggy/pitted core (especially 214.40-215 m) down to 217.55 m, minor f.g. py coating.</p> <p>fl mnz patches and blebs locly up to a few cm, gy-r p. significant 212.75-213.65 m and 217.15-219.80 m.</p> <p>208 to 209.50 m - broken up core. 1 cm qtz pocket at 211.48 m, other frags/vnlets locly ± py. stronger mottled text below 217 m.</p> <p>220 m to 237 m - increased suls locly, bnd/vnlets, also in gdmass (gy-brassy). mostly py-sph.</p> <p>@228.50 m - streaky sul fl mnz.</p> <p>220.60 m to 221.50 m - w-cr sub-ang clsts scattered, wkly oriented in bnds ~ along CA - psd-brc/shrd? (ctsc text). It gy-pale ol mtx. minor ap diss, trace fl mnz REflc blebs sul strings ~ following dol clsts.</p> <p>221.50 m to 222.60 m - reduced and smaller w-cr dol, Carb dominantly y-gy to pale gr-y, still minor fl blebs.</p> <p>222.60 m to 227 m - perv fl blebs, up to few %, f.g. this Carb is pale p to y-gy. minor diss py.</p> <p>227 to 237.50 m - Carb y-gy to gr - abnt gr amph clusters and increased diss suls locally and talc all combine. mottled text. amph locly up to 5% mostly < 1%. fl mnz patches common through here, locly up to 8% TREE on XRF. og br REflc/mnz blebs also diss < 1%.</p> | | | 204.87-209.40 | 450-550 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@227.25 m - a few mag vns, <1 cm thick. more mag down to 236.30 m, locally mixed in with gr patches (especially 230.60 m) and commonly along vns/dykes with py. increases CPS around mag up to 700.</p> <p>228.70 m to 236.25 m - abnt vns and late stage Carb dykes. Carb dykes are f.g. y-gy typically layered and commonly with mag and py at edges. one at 232.80 m is 35 cm long and v. small angle TCA. other vnlets are dk gy to dk gr and abnt in mag and suls.</p> <p>237.50 m to 238.80 m - str mottled text continues, y-gy to mod y with cr dol grains/clusters. no amph or other gr clusters but abnt fl mnz patches/blebs, up to 15% locally, again up to 8% TREE.</p> <p>238.80 to 243.65 m - Carb similar to top of unit, lt gy to y-gy common vugs (minor py coating) and broken core common. rare fl blebs. common sul bnds (gy).</p> <p>243.65 to 259.95 m - fl mnz patches blebs more common, up to 15% (especially 250.10-253 m). Carb y-gy, locally mod y with cr dol grains common 258-259.95 m. (psd-brc)</p> <p>late stage Carb dyke? right along bottom of core with up to 5 mm sph py border between intruded Carb. also 247.50 m to 248.65 m - late stage Carb dyke running close TCA. similar to above with sul etc. layered.</p> <p>@247.40 m - 1 cm qtz vn.</p> <p>252.80 m to 255 m - increased sul vns and strings, dk gy to dk gr, f.g., py sph mostly.</p> <p>259.95 m to 265.51 m - Carb med gy and y-gy, mostly wk-mod bndg/fol. dkr gy bnds due to suls (sph); py is minor. bnds have w dol clsts (lumpy, almost ctsc). rare fl patches.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|--|-------------------------------|------------|----------------------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>265.51 m to 303.60 m - Carb fairly consistantly bnded/fol, wk-mod, uniformly oriented. overall mottled text. mtx mostly y-gy but ranges to mod y, lt-med gy blebs and bnds common down to 287 m - sul (sph mostly, m.g.-c.g. euh).</p> <p>fl bnds and blebs and patches are common through this section, avg 1-2% and loclly up to 20% and mnz. 1.5 cm solid fl mnz bnd at 272 m, sharp ctc to carb. significant fl and mnz patches at 271 m, 5% at each, 1% diss py. these are 4.5-6.5% TREE on XRF.</p> | @265.40 m - bndg/fol 55° TCA. | | | |
| | | | | <p>268.50 m to 271.25 m - abnt sub-ang dol clsts/clusters, y-gy to pale gr-y - ctsc text (healed SZ?), clsts broken apart and chewed up. fl and abnt r-br mineralization igr (mnz/REflc?). py clusters loclly.</p> | @269.75 m - bndg/fol 35° TCA. | | | |
| | | | | <p>277 m to 280.20 m - Carb v. wkly-not fol, f.g. gr amph and suls diss evenly and wkly strung together into strings. lt gy to y-gy dol clsts and gdmass. no fl. fairly homo.</p> | @275.00 m - bndg/fol 35° TCA. | 204.87-280 | 300-450 loclly down to 250 | |
| | | | | <p>280.20 m to 281.10 m - stronger bndg, with ctsc text. dol clsts/clusters similar to above but bigger and more contrast between them, gdmass and igr bnds/strings loclly overprinted/re-xtld, gy-y f.g. mass patches - more common below (down to 282.75 m) with fl blebs diss loclly.</p> | | | | |
| | | | | <p>283 m to 284.65 m - Carb mostly mod y and wkly bnded with fl mnz blebs/bnds and gr amph and talc streaks and fracs.</p> | | | | |
| | | | | <p>284.65 m to 286.25 m - more subdued colour and bndg, y-gy and mod y, reduced fl.</p> | | | | |
| | | | | <p>@286.25 m - brc? bnd/dyke (20 cm wide), sharp ctc x-cut bndg. gy (suls) to y-gy mtx. minor w dol grains scattered.</p> | | | | |
| | | | | <p>286.65 m - 289.90 m - strongest bndg, mod y gdmass "bnds" not abnt, instead lots of fl blebs and gr-brassy sul bnds.</p> | @289.60 m - bndg/fol 35° TCA. | | | |
| | | | | <p>@291 m - only minor bndg.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 325.95 | 342.28 | dol-Carb | - | <p>289 m to 321.25 m - homo y-gy gdmass with widely spaced fl mnz blebs. minor mottled psd-brc zones with mod y gdmass, minor gy bnds, patches.</p> <p>309.50 m to 314.10 m - increased fl blebs/bnds, up to 15%, commonly with w-cr dol grains.</p> <p>conversely v. minor fl at 304-309.40 m and below 314.15 cm.</p> <p>302.40 m to 311.05 m - abnt qtz vnlets, up to 1 cm wide.</p> <p>305.60 m to 306.50 m and 307.30 m to 309.25 m - heavily fracd and brc Carb, Carb clsts ang, up to 2 cm, not mobilized for qtz vns increase near ends of brc. chl fl fracs and pockets common 307.30-308.80 m.</p> <p>306.50 m to 307.30 m - patchy text.</p> <p>brc bnds at 309.45 m, 312.35 m, 313.80 m are due to fl vning - v. sharp ang Carb clsts with dk p mtx. bnds <3 cm and sharp ctc with intruded Carb.</p> <p>309.20 m to 318.30 m - wk bndg/fol, locly.</p> <p>321 m to end - psd-brc-brc common, increased RA, increased qtz vns (and in mtx?). f.g. diss amph and suls. 325 m to end, Carb ltr gy (not y), mass text (but still locly brc). gradational ctc to unit below.</p> <p><u>bio ap dol-Carb</u></p> <p>lt-med gy. ctsc brc text dominates, locly wkly bnded. bio perv. f.g.-m.g.</p> <p>modal mineralogy: dol: 86%; bio: 5%; ap: 7%; py: trace; sph: 1%; REflc: trace; alb: 1%.</p> <p>fairly homo, perv bio - igr and stringy bnds, all f.g.</p> | @298.15 m - bndg/fol 45° TCA. | | | |
| | | | | 280-322 | 220-330 | | | |
| | | | | 322-325.95 | 300-380 | | | |
| | unit | 300-370 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 342.28 | 375.24 | dol-Carb | - | <p>gdmass loses y hue at start of unit - all gy. trace bio for first m, Carb has only faint brc text (well healed/rextld?).</p> <p>for most of unit, brc defined by w to lt gy dol clsts, sub-ang to sub-rnded, mostly <0.5 cm. mtx ranges from lt-med gy and lt gy to y-gy.</p> <p>329 m to 330.75 m - no clsts/brc apparent, mass-v. wkly bnded, blebby bsn/prs locky, trace.</p> <p>336.50 m to 337.72 m and 340 m to 341.75 m - wk irregular bndg - patchy, hetero. ap blebs diss and bnds up to 15% here.</p> <p>alb clsts? locky, hard, dk gy, up to 2 cm, biotized rim. minor alb in mtx of brc locky? dk gy and hard.</p> <p>ap throughout unit in blebs and f.g. in gdmass 5-10% usual, locky none.</p> <p>minor py vnlets and frac fill throughout.</p> <p>335.60 m to 336.30 m - more homo and f.g., reduced bio, pale gr-y dol bnd x-cut.</p> <p><u>dol-Carb</u></p> <p>lt gy to med gy, minor lt y-gy to pale y-gy. hetero text, mass-patchy-brc, locky wkly bnded. perv REflc. f.g.</p> <p>modal mineralogy: dol: 93%; ap: 4%; bio: 2%; sph: 1%; REflc: trace; fl: trace; py: trace.</p> <p>unit starts with appearance of consistent REflc. it is diss throughout, typically individual grains or small clusters, mod-dk r-br, mostly trace but locky up to few %.</p> <p>also reduced bio, still present but not perv.</p> | | | unit | 200-300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>342.65 m to 345.50 m - Carb is homo and dkr gy, starting f.g. and coarsening up further down - text from mass to brc? (lt gy dol clsts increasing down, but these are uniformly sized and spaced). ap here 15-30%, starts out dominant component of gdmass.</p> <p>ap identified by bright b-w fluorescence under UV. besides the interval above, ap <5% and mostly blebby-blotchy, not in gdmass.</p> <p>342.65 m to 345.50 m - REflc, is f.g. and evenly diss, no larger clusters.</p> <p>345.60 m to 350.15 m - Carb dominantly lt gy to pale gr-y, still fairly homo, minor med gy bnds (f.g. sph?). REflc increases, larger clusters common. trace ap.</p> <p>350.15 m to 352.40 m - similar text to prev unit - pale y-gy Carb with igr/stringy bio. faint brc text locly (w dol grains).</p> <p>352.40 m to 353.60 m - bio reduced, but Carb remains similar. increased REflc clusters.</p> <p>353.60 m to 354.85 m - abnt sul bnds, dk gy bnds with py sph and minor bio.</p> <p>354.85 m to 361.55 m - consistent text, lt gy gdmass, mass-faint mottled/brc text. med gy clusters 355.90-357.80 m (f.g. suls? qtz?).</p> <p>358.40 m to 359.10 m - abnt bsn/prs, up to 5% locly.</p> <p>@359.45 m - more y-gy gdmass. dkr gy 360.45-361.10 m - increased micro-sul.</p> <p>361.55 m to 362.30 m - Carb irregularly bnded, abnt bio bnds, strings (up to 10%) and py increased suls, lt-med gy.</p> <p>362.30 m to end - Carb is lt gy to pale y-gy with variable dkr gy bnds, strings - bio common 363.55-368.10 m with larger patches locly, otherwise attributable to suls. mass - psd-brc brc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 375.24 | 426.11 | dol-Carb | BD | <p>368.35 m to 369.50 m - abnt fl blebs, up to 10% locly, ± REflc, py. no fl above here, minor below.</p> <p>368.20 m to 373.20 m - homo text, lt gy to pale y-gy, minor sul bnds, REflc.</p> <p>373.20 m to end - dkr (increased bio, suls) and faint brc text? re-xtld, locly wkly bnded.</p> <p>gdmass y approaching lower etc. etc is gradational.</p> <p><u>ap dol-Carb</u></p> <p>y-gy at start, mostly lt gy with v. dk r to dk r-br REflc (perv). blebby fl and REflc; most of unit mod-str bndg, psd-brc to brc locly. f.g.</p> <p>modal mineralogy: dol: 89%; ap: 10%; REflc: 1%; fl: trace; py sph: trace.</p> <p>unit begins with increase of bsn/prs - throughout perv diss blebs and small clusters, commonly form bnds, commonly up to few %.</p> <p>top to 390.35 m - Carb is hetero, gdmass lt gy to y-gy, it's patchy-mottled-psd-brc/brc. fl and REflc equally abnt, locly up to 5 %, minor mnz?</p> <p>start to 381.25 m - patchy text with scattered fl and REflc blebs, locly wkly bnded. late fl vnlets x-cut from 377.60-381 m, <1 mm.</p> <p>381.25 m to 384.15 m - mod bnded.</p> <p>@384.15 m and 385.70 to 386.95 m - brc, w to lt gy dol clsts, sub-ang to sub-rnd, up to few cm; gy-brassy mtx - dominantly sph-py, also fl REflc blebs (especially 384.15-386.40 m).</p> <p>384.45 m to 385.30 m - mass-pathcy text, with w dol gdmass and common REflc fl blebs. random ap.</p> | | | unit | 200-250 |

@382.00 m -
bndg 35° TCA.

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>385.40 m to 385.60 m - abnt REflc fl blebs, overshadow Carb gdmass.</p> <p>386.95 m to 390.35 m - mix of mod bnded (irregular blotchy - brc bnds) to patchy text. med gy-brassy sul bnds/patches locly.</p> <p>390.35 m to 420.25 m - consistent mod-str bndg, quite homo with perv ~evenly diss REflc, (bnd forming), rare fl bnds/blebs. mostly homo lt gy bnds, some med gy bnds. ap is abnt, but not attributable to lt or dk bnds - only distinguishable with UV light.</p> <p>brc zones/bnds locly similar w clsts with dkr gy (sul?) mtx.</p> <p>419.40 to 419.85 m and 420.20-421.10 m - Carb/bndg interrupted by late stage Carb dyke, pale ol with med gy sul streaks and REflc streaks, sharp ctc.</p> <p>421.10 m to end - mass-patchy text, rare bndg. REflc blebs common down to 424.30 m, rare below.</p> <p>qtz vns x-cut locly, 3 cm bnd at 385 m and minor at 424.50 m.</p> <p style="text-align: center;">EOH</p> | <p>@392 m - bndg 55° TCA.</p> <p>@ 399.50 m - bndg 50° TCA.</p> <p>@ 405.00 m - bndg 60° TCA.</p> <p>@ 412.00 m - bndg 40° TCA.</p> <p>@ 416.75 m - bndg 55° TCA.</p> | | | |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|----------------------------------|
| Property: Eldor Property | Easting (m): 536138.49 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 01, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312196.38 | Rig Type: Zinex A5 | Date Completed: Oct 02, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Not Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 4.57 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: NQ | End of Hole: 206.04 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|---------------|-----------------------------------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 2.12 | OVB | - | <u>Ovb</u> overburden/incasing | | | 2.00-13.00 | 400-500 |
| 2.12 | 58.91 | dol-Carb | A | <u>(fl) dol-Carb</u> colour varies in sections from v lt gy to lt gy and lt ol-gy to ol-gy in some sections, locally dusky y. lt gy to v. lt gy dol-Carb is often overprinted by y-gy and cr-tan carbonates creating a mottled text (especially in bottom half), fl occurs overall in a minimal amount but can be abnt in sections and is itsl (what might be broken patches) and in patches, gy-r mnz? is associated with fl and can locally exceed fl mineralization; there are few sections of lt ol-gy to ol-gy F-Carb ('heavy zone') of < 1m; few 10 sections of brc; common late-stage dol-Carb dykes of few cm; common late-stage fl dol qtz vnlt, that cut dykes. modal mineralogy - dol (and other carbonates), fl 4-5%; mnz? 3-4%; sul/oxides trace; qtz trace. first 1.5 m are more or less broken core, but it seems to be bedrock, not bldrs. 2.12 m to 13 m - RA is pretty low, while text and mineralogy is similar to the rest of the unit → didn't cut it out. 2.12 m to 7.30 m - y-gy carbonates, that might be associated with mnz?, dominate over lt gy dol-Carb, lim occurs frequently on fracs as well as on altd patches. (lim) | | | 13.00-44.00 | 600-800 (~1000 in a few sections) |
| | | | | | | | 44.00-end | 1000-1200 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|----------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 2.12 m to 3.10 m - perv gy-r mnz? with less fl in abnt blebs and small patches. (mnz?) | | | | |
| | | | | 3.35 m to 3.55 m - lt ol-gy to ol-gy F-Carb with 2% REE ND/LA 1:1 XRF-results. sharp ctc to lt gy dol-Carb on one side, other ctc is not visible due to drill problems. | F-Carb (dyke?) | | | |
| | | | | 5.30 m to 5.50 m - perv mnz? mineralization of ~8% with less fl, both in small patches → 6% REE XRF-assay. | | | | |
| | | | | 7.60 m - few bio-rich clsts and patches of 1-3 cm. | | | | |
| | | | | 8.80 m to 9.90 m - increased gy-r mnz? in min to abnt blebs and small patches giving it a blebby text, similar from 11.50 m to 12.50 m. | | | | |
| | | | | 13.00 m to 40.60 m - mostly lt gy v.f.g. dol-Carb with min fl in patches, locly perv; often itsl fl, which seems more like broken patches; late stage fl Qtz vnls are common in this section; mnz? occurs with fl, but is less abnt overall than in prev section. | | | | |
| | | | | 13.40 m to 13.90 m - increased mnz? content (~5-6%), with fl, similar: 14.80-14.90 m, 17.75-18.05 m, 18.95-19.25 m. | | | | |
| | | | | 14.40 m - irregular ilm-rich vn of 1-4 mm → Nb~6000 ppm. | | | | |
| | | | | 14.80 m - blebby fl in v.f.g dol-Carb with a bnd of 10 in between, where amph is present instead of fl, text does not change at all, looks like a simple replacement of fl by amph → doesn't make sense, no clever comment on that one. | | | | |
| | | | | @ 15.40 m - patch with min amph, that looks like it is grown in vugs. | | | | |
| | | | | @ 17.35 m - 10 cm vn of brc dol-Carb, most of dol-Carb clsts are sharp and toothed(?), several clsts are f.g. v. lt gy to w dol-Carb, clst-sup brc, brc by sul-rich dk gy gdmass with min Nb-rich ilm → brc by sul-rich hydrothermal fluid. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>28.80 m to 29.45 m - each one 5-8 cm vns of brc (mtx-sup), with sub-rnd 2-20 mm dol-Carb clsts in lt gy to y-gy dol-Carb gdmass, both v.f.g., few amph blebs?; get cut by late-stage fl vnlt.</p> <p>30.40 m to 36.60 m - lt gy v.f.g. dol-Carb with min fl in patches and itsl with trace mnz? min y-gy overprint if carbonates causing locly mottled text, locly some ol-gy streaks of Fe-carbonates.</p> <p>36.70 m to 41.50 m - alternating sections of dol-Carb with min to abnt mnz (and fl) patches and min to trace mnz (and fl), dol-Carb is v.f.g. and lt gy to gy, in fl-rich sections there are common dusky y carbonate overprints in blotches; in fl-free sections dol-Carb wk fol. @ 40.80m - wk fol 59°.</p> <p>41.50 m to 43.15 m - lt gy to wk y-gy v.f.g. mottled dol-Carb with min y-gy carbonate overprint, locly min ol-gy streaks of Fe-carbonates (+xnt?), wk fol, minimal fl and mnz? in few <3mm bnds and blebs, several fl and qtz vnlt.</p> <p>@ 42.55 m - 7 cm lt ol-gy F-Carb dyke.</p> <p>43.15 m to 47.40 m - y-gy to lt ol-gy (5Y 5/2) v.f.g. mottled dol-Carb with minimal to abundant dusky yellow overprints in blotches, fl occurs minimally to trace in few patches and bnds, several fl qtz vnlt, few lt ol-gy to ol-gy patches and bnds of F-Carb (and xnt?) → @ 44.75 m, 46.50 m.</p> <p>@ 44.00 m - increased hydrothermal activity displayed by w dol-fl patches, that break dol-Carb.</p> <p>@ 47.00 m - 5 cm qtz patch.</p> <p>47.40 m to 50.80 m - lt gy to wk y-gy blebby to peppered dol-Carb, trace diss fl and sul and mnz?</p> <p>47.95 m to 48.10 m - dyke of brc (clst-sup), majority of clsts are y-gy sub-rnd dol-Carb clsts of 5-30 mm, mtx is same as surrounding rock, min w dol clsts (rextld?) of 2-5 mm; few bio clsts and vnlt.</p> | 40.80 m - wk fol 59° TCA. | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-----------|---------|----------------------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 58.91 | 89.40 | dol-Carb | - | <p>48.10 m to 48.35 m - well layered y-gy to lt ol-gy late-stage dol-Carb dyke.</p> <p>50.80 m to 51.30 m - min itsl mnz?, few dusky y blotches</p> <p>51.90 m to 52.40 m - F-Carb overprint →lt ol-gy to ol-gy, minimal to trace fl.</p> <p>53.45 m to 54.60 m - lt ol-gy colour, mottled text with min ol-gy streaks of Fe-carbonates (and xnt?), min to trace fl and mnz? itsl and in few patches.</p> <p>54.60 m to 58.91 m - lt gy to y-gy mottled v.f.g. dol-Carb with locly min mnz? and fl (mostly in patches).</p> <p>@ 57.15 m - 4 cm mass fl and min mnz? bnd.</p> <p>end of unit because in next unit RA is markedly lower, fl only occurs in occaisonal patches, text changes and colour becomes homo y-gy.</p> <p><u>dol-Carb (A/B-T?)</u></p> <p>lt gy v.f.g. dol-Carb is mostly overpinted by y-gy carbonates, that are associated with mnz? → giving it an overall y-gy colour and a fairly homo to wk mottled text, locly source dusky y carbonate overprint (low in REE); fl exclusively occurs in sparse patches (fl patches often contain gy-r mnz? that occasionally exceeds fl, often associated with late-stage healed fracs of fl), sul occur in traces in blebs and in v. few smaller patches, where they might be intergrown with rt? or ilm? (high T, Nb), few lt ol-gy to ol-gy F-Carb patches/overprints; few late-stage dol-Carb dykes, this unit is homo in its features.</p> <p>modal mineralogy - dol (and other carbonates) 95-96%; fl 2-3%; mnz (gy-r and y-gy) ~2%; sul <1%.</p> <p>58.91 m to 59.60 m - increased amount of fl patches, that are strly intergrown with gy-r mnz?, patches are not mass, its more like fl and mnz are itsl in patches.</p> | | | constantl y decreasi ng | 800-400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>@ 60.40 m - ilm bearing dk gy min mass brc-dol-Carb → 2.5% Nb on XRF, 10 cm bnd.</p> <p>@ 60.60 m - min to abnt patches and bnds of lt ol-gy F-Carb, seems to be intrusive.</p> <p>@ 61.60 m - 7 cm patch with abnt itsl sul.</p> <p>@ 67.70 m - 30 cm section with minimal trace to blebs of gr-b amph.</p> <p>@ 69.70 m - 6 cm section with minimal to abnt sul.</p> <p>70.90 m to 71.10 m - section with minimal to abnt itsl gy-r mnz? and trace fl.</p> <p>69.95 m to end of unit - dusky y blotches of carbonates overprint become more common, in mnz/fl patches mnz? mostly exceeds fl.</p> <p>72.80 m to 73.05 m - increased gy-r mnz? amount.</p> <p>@ 72.30 m - 1 cm vn with sul and abnt ilm brcg dol-Carb.</p> <p>76.50 m to 76.75 m - few amph blebs.</p> <p>78.20 m to 78.50 m - minimal to abnt itsl mnz? in patches, similar @ 79.40-79.70 m and 82.20-82.50 m.</p> <p>79.85 m to end of unit - wk fol, mostly defined by dusky y carbonates and min by fl/mnz bnds.</p> | | | | |
| | | | | | @ 81.50 m - wk fol 51° TCA. | | | |
| | | | | | @ 85.80 m - wk fol 52° TCA. . | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------------------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 89.40 | 120.43 | dol-Carb | - | <p>@ 83.90 m - vnlt/patches of ilm/sul? brcg dol-Carb, 5 cm section.</p> <p>85.10 m to 85.40 m - several bnds of fl and mnz?, similar from 87.10-87.40 m.</p> <p>86.20 m to 86.55 m - several micro sul-rich? med gy vnlt.</p> <p>at end of unit RA is const @ ~400 CPS fl becomes less common and colour and text are not as homo as above, gy-r mnz? has vanished.</p> <p><u>dol-Carb (A/B-T?)</u></p> <p>hetero unit, mostly lt gy to y-gy caused by y-gy to lt ol-gy carbonate overprint on lt gy dol-Carb. v.f.g. dol-Carb, which is often mottled and some sections are psd-brc with f.g. to m.g. dol xtls in v.f.g. mtz; sul vnlt are common throughout and can locally brecciate dol-Carb and might contain ilm (probably primary phase, altd to sulfides (and rt?) in later stage); fl is rare and almost exclusively in patches, which locally reminds one of previous unit, some sections have a more lt ol-gy colour, which might arise from F-Carb overprinting, common late-stage dol-Carb dykes, some of which are F-Carb dykes; common late-stage fl qtz vnlt throughout. few sections CPS 700.</p> <p>modal mineralogy - dol (and other carbonates) 96%; fl 2%; sul/oxides 2%; mnz trace.</p> <p>89.40 m to 91.95 m - mottled v.f.g. y-gy and lt ol-gy to lt gy dol-Carb, which is overprinted by y-gy and lt ol-gy carbonates, contains minimal to trace fl in blebs and few patches.</p> <p>91.50 m - 20 cm section of vuggy rock with lim infillings.</p> <p>92.00 m to 93.55m - wk fol v.f.g. y-gy dol-Carb with min to trace fl in blebs, ilm sul?-rich? patch @ 93.10 m.</p> | @ 88.40 m - wk fol 52° TCA. | | overall | 400-500 |
| | | | | | @ 92.80 m - wk fol 44° TCA. | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|--|-------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 120.43 | 172.35 | dol-Carb | BD | <p>94.00 m to 94.50 m - psd-brc with 1-3 mm v. lt gy to w dol xtls in y-gy v.f.g. dol-Carb mtx, min sul vnlt.</p> <p>96.95 m to 99.10 m - min to abnt dk gy sul (and ilm?) vnlt, locly brcg dol-Carb.</p> <p>99.55 m to 101.55 m - psd-brc of lt gy rnd 2-5 mm dol-Carb clsts in med lt gy to lt ol-gy dol-Carb mtx, clsts are not well defined, could be rextln.</p> <p>101.55 m to 102.75 m - y-gy to lt ol-gy mottled dol-Carb several fl patches and blebs.</p> <p>103.20 m to 118.60 m - psd-brc text with w f.g. to m.g. xtls in lt gy to y-gy mtx, few larger patches of f.g. to m.g. w dol up to 5 cm; few 10-20 cm sections with v.v.f.g. diss fl.</p> <p>106.65 m to 106.8 m - fl rich bnd with trace gy-r mnz?</p> <p>@ 112.90 m - 15 cm v.f.g. lt ol-gy to y-gy layered F-Carb dyke.</p> <p>@ 117.40 m - brc dyke, clsts are mostly the same as surrounding dol-Carb, several with up to 6 mm dol xtls, min sul and fl; brcd by passing fluid?, nearly no matrix, ctcs are sharp and sul-coated.</p> <p>118.70 m to 120.43 m - mottled to patchy, dol-Carb is mottled and v. lt gy to y-gy with min fl in several patches and blebs; sul are min to trace in streaks and vnlt.</p> <p>end of unit is defined by lower CPS and the onset of mod r-br REflc.</p> | F-Carb dyke | | | 600 |
| | | | | | | | 700 | |
| | | | | <p><u>dol-Carb</u></p> <p>gradational transition from last unit to f.g. to m.g. v. lt gy well bnd REflc-rich dol-Carb with mod r-br to pale r-br bnds, ap becomes more common; fl is rare and only occurs in a few sections in patches; sul occur in common dker sections and vnlets.</p> <p>modal mineralogy - dol (and other carbonates) 97%; REflc 1%; fl 1%; sul 1%.</p> | | | overall | 300-400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-------------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>120.43 m to 129.20 m - dol-Carb is f.g. v. lt gy to wk y-gy with min blebs and vnlets of sul, common patches of 5-15 cm with abnt med lt gy and locly brcg dol-Carb (especially 22.75-23.25 m). REflc are rare and occur in blebs and small patches. F-Carb dyke.</p> <p>122.85 m to 123.05 m - layered v.f.g. lt ol-gy F-Carb dyke with sharp ctc similar from 128.60-129.05 m.</p> <p>129.20 m to 132.55 m - brc? mostly med lt gy to y-gy v.f.g. (ap and/or micro-sul-rich?) dol-Carb with minimal f.g. dol xtls giving it psd-brc text; common v. lt gy to wk y-gy f.g. 2-8 cm sub-rnd clsts? of dol-Carb (especially 129.20-129.80 m) (this section looks like the section 120.43 m to 129.20 m).</p> <p>129.75 m to 130.90 m - common fl patches.</p> <p>@131.75 m - 10 cm with minimal itsl med r-br REflc.</p> <p>132.55 m to 140.55 m - psd-brc; lt gy and med lt gy to y-gy v.f.g. dol-Carb, which might locly comprise ap and/or micro-sul (see 133.80-133.90 m, 138.00 m; 139.40 m). minimal to abnt f.g. to m.g. dol xtls - rextln of dol? because of regional hydrothermal overprinting by P-/REE-rich fluids?. REflc are more common than in preveious section, but still trace and occur itsl in several smaller section, late-stage dol-Carb dykes are common often v.f.g. dol-Carb is overprinted by y-gy carbonates, that might contain mnz?.</p> <p>@ 139.70 m - 3 cm vn of w dol and some pk Mn-rich? carbonate, is cut by an adjacent 1 cm bio-rich vn.</p> <p>140.55 to 141.80 m - psd-brc, abnt m.g. dol xtls in med gy ap-rich v.f.g. dol-Carb gdmass.</p> <p>141.80 m to 151.90 m - dol-Carb is f.g. to m.g. lt gy to wk y-gy with minor to trace itsl REflc giving it locly a psd-brc text, some sections have a med lt gy colour → micro-sul-rich?; minor sul vnlets and blebs; common v.f.g y-gy late-stage dol-Carb dykes of < 3cm. fl occurs in common patches from 145.65 m to 145.80 m, 146.40 to 147.60 m, 148.30 to 148.45 m.</p> | F-Carb dyke | | | 500-550 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|---|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 172.35 | 206.04 | WR | - | <p>150.90 to 156.50 m - wk fol mostly v. lt gy to wk y-gy f.g. dol-Carb, in common bnds and patches that comprise itsl REflc or minor ap/micro-sul? grain size can increase resulting in a psd-brc text (see 151.55 to 151.70 m - micro-sul-rich bnd). fl is trace.</p> <p>@ 155.90 m - 2 cm bnd with Nb-ilm vnlets brc dol-Carb. similar @ 156.65 m.</p> <p>157.50 to 161.40 m - abnt bnds with med gy colour - not fluorescent in UV → micro-sul-rich?, in between bnds of lt gy to y-gy f.g. to m.g. dol-Carb with minor REflc and abnt sul vnlets text is hetero.</p> <p>161.40 to 170.80 m - well bnd v. lt gy to lt gr-gy f.g. to m.g. dol-Carb with abnt? mm to 30 cm pale r-br REflc-rich bnds, minor med lt gy bnds contain ap; few blebs and patches of fl, few sul vnlets.</p> <p>@ 168.30 m - vuggy rock around frac with cc infilling.</p> <p>170.80 m to end - v. lt gy to f.g. to m.g. dol-Carb with several 1-5 cm med lt gy bnds, from 171.25 to 171.60 m - psd-brc with abnt m.g. dol xtls and itsl ap-rich med lt gy dol-Carb. from 171.70 to 172.30 m - cc-Carb that looks exactly the same as dol-Carb. few bio-rich WR clst/bnds of < 10 m @ 171.00m, 172.30 m.</p> <p><u>dol cc bio alb WR</u></p> <p>mostly med dk gy to dk gy brc Glim WR, it mostly comprises alb? - clst with minor itsl bio, often bio occurs pblsc in up to 1 cm xtls, cc is minor to abnt and occurs itsl and in abnt cc-Carb frag/clst/stringers that range from few mm to 50 cm and are w to v. lt gy to pk-gy; in few sections cc has vanished, instead dol-Carb frags/stringers dominate; several lt gy to wk y-gy, f.g., hetero strongly deformed dol-Carb dykes/bnds of up to 1 m, that locally comprise minor cc; < 5 cm, that occur throughout.</p> <p>modal mineralogy - alb 59%; bio 15%; cc 20%; dol 5%; sul 1%.</p> <p>172.45 to 173.50 m - no cc, only minor to abnt lt gy dol-Carb frags and stingers.</p> | <p>@ 152.70 m - wk fol 32° TCA.</p> <p>@ 165.80 m - bndg 60° TCA. @ 169.80 m - bndg 64°</p> | | 250 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>175.75 to 176.80 m - dyke of lt gy to y-gy f.g. to c.g. dol-Carb with minor to trace cc, trace ap, few bio patches and vnlets, ctcs are sharp.</p> <p>178.05 to 178.50 m - bnd with no cc, but abnt w dol-Carb frags; clear and sharp bio ctcs at both ends, that cut off frags, while text and colour don't form surrounding WR.</p> <p>182.20 to 184.00 m - minor abnt bio pbls of up to 1 cm -- especially 184.95 to 185.10 m.</p> <p>187.20 to 187.50 m - v.f.g. med lt gy to lt ol-gy late-stage? dol-Carb dyke, slightly altd (some bio blebs).</p> <p>191.40 to 192.25 m - abnt frags/deformed bnds of f.g. v. lt gy dol-Carb; frags have saw-toothed ctcs to b-gy amph-rich WR, which seems to intrude dol-Carb in some vns/dykes; amph-rich section only exists ~ 1 cm around dol-Carb frags.</p> <p>193.10 to 202.40 m - abnt bio pbls of 2.6 mm in v. cc-rich f.g. gdmass.</p> <p>199.15 to 199.75 m - med lt gy to w f.g. cc-Carb dykes with minor bio blebs, one ctc is sharp, the other ctc is gradual into WR.</p> <p style="text-align: center;">EOH</p> | | | | |

Handwritten signature and date: 06/10/2011

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536163.68 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 02, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312165.79 | Rig Type: Zinex A5 | Date Completed: Oct 06, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.05 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: - | Core size: NQ | End of Hole: 520.53 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -90° | Core storage: Camp Valcourt | Logged By: M. Carter | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|--|---|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.10 | OVB | - | <u>Ovb</u> ovb and frost heave, frags of Fe-Carb and rare siliceous frags rnd/tumbled by drill. | | | | |
| 3.10 | 85.50 | dol-Carb | A → A/B-T | <u>fl dol-Carb</u> colour - lt ol-gy, med lt gy ([5Y 6/1, 5Y 5/2], N6). mineralogy - dol 91%, f.g., anh; fl 7%, v.f.g., anh; mnz 1%, v.f.g., anh; py 1%, f.g., suh; phl trace, f.g., anh; ap trace, f.g., anh; qtz trace, v.f.g., anh; lim trace, v.f.g., anh. 3.10 to 85.50 m - hetero unit, variable text but most commonly mottled or psd-brc. rare expressions of heavy zone (mod lt-br to ol-gy colouration, mass appearance); common to abnt x-cut v.f.g. dol-Carb dykes. fl occurs as brittle frac vnlets → wispy perv patches or bands and sparse dense masses; v.f.g. mnz? perv or diss throughout. sparse hydrothermal qtz or fl pockets ± drusy f.g. dol rim. sporadic stryrolites throughout. 3.10 to 27.15 m - hetero, overprinted. ~ 9.00 to 12.00 m - brittle frac fl or qtz vnlets dominantly 60 -70° TCA. 13.80 m to 15.37 m - rare gy-pk ap clst (b-w fluorescence) and patches of soft gr-blk chl?. 19.00 to 40.00 m - frac-rel lim alt, mod r-br, 60-80%. 20.55 to 27.15 m - cm scale zoned/bnded v.f.g. dol-Carb dykes x-cut @ shallow angles TCA, some with stylolitic margins. | | | 4.00 7.00 10.00 13.00 16.00 19.00 22.00 25.00 28.00 31.00 34.00 37.00 | .675 780 775 950 1015 905 1000 760 830 970 1151 1100 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 27.15 to 31.53 m - core has homo appearance, common x-cut v.f.g. dol-Carb dykes; brittle frac fl vnlets x-cut roughly perpendicular TCA. fl appears to pervade core from brittle fracs. 27.15 to 31.53 m -mottled psd-brc text. | | | 40.00 | 1520 |
| | | | | 31.53 to 32.60 m - x-cut zoned/bnded v.f.g. dol-Carb dykes undulating along CA, some stylolitic margins. 31.53 to 54.25 m - hetero, overprinted text. | | | 43.00 | 1080 |
| | | | | perv fl patches or dense masses often occur proximal to brittle frac fl vnlets → hydraulic/hydrothermal pumping?. | | | 46.00 | 900 |
| | | | | 38.85 to 40.38 m - expressions of heavy zone → mod ol-br colouration; rare f.g. lt to med br mnz?. | | | 49.00 | 1000 |
| | | | | 42.35 to 43.70 m - abnt stylolites dominant set ~ 45-50° TCA, secondary set undulating along CA. | | | 52.00 | 1225 |
| | | | | 44.07 to 44.50 m - ~7 cm x-cut v.f.g. dol-Carb dyke @ 25° TCA. | | | 55.00 | 1275 |
| | | | | 44.80 to 54.00 m - frag patches of fl vs fl barren Carb, no text change and rare hydrothermal qtz vns ± fl, patches with heavy zone expressions. | | | 58.00 | 1215 |
| | | | | ~ @ 54.25 m - text T, wkr overprint, core appears more uniform. 54.25 to 65.00 m - mottled psd-brc text. | | | 61.00 | 1030 |
| | | | | 55.40 to 58.50 m - few x-cut F?-Carb dykes > 5 cm with mod ol-br colouration and rare hydrothermal qtz veins or patches ± fl. | | | 64.00 | 1240 |
| | | | | 62.35 to 62.60 m - x-cut dykes of mtx-sup brc with f.g. to v.c.g. sub-ang to rnd ap clst (b-w fluorescence) and chloritized? clst in Carb mtx. | | | 67.00 | 1100 |
| | | | | 65.00 to 65.23 m - x-cut of mtx-sup hydrothermal brc with ang to sub-ang host clst in v.f.g to f.g. mod ol-br F?-Carb mtx with mnz? and fl. | | | 70.00 | 970 |
| | | | | | | | 73.00 | 950 |
| | | | | | | | 76.00 | 1040 |
| | | | | | | | 79.00 | 1070 |
| | | | | | | | 82.00 | 775 |
| | | | | | | | 85.00 | 850 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | |
|-------------|-----------|--|---------------------|--|-----------|---------|---------------|---|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | |
| 85.50 | 191.45 | dol-Carb | A/B-T | 65.00 to 84.00 m - increased frequency of brittle frac fl, development of locl fl stockworks and stockwork brc; few hydrothermal brc ± fl; common stylolites. abnt x-cut dol-Carb dykes, either concordant or discordant with orientation of brittle frac. from 65.00 to 85.50 m - hetero, overprinted. | | | | | | |
| | | | | 78.00 to 83.60 m - rare overprinted, x-cut F?-Carb dykes often undulating along CA. F?-Carb dykes cut by later brittle frac fl, brittle frac may parallel orientation of dykes. | | | | | | |
| | | | | RA - min 700 CPS, max 1400 CPS, and avg ~ 1100 CPS. | | | | | | |
| | | | | <u>fl dol-Carb</u> | | | | | | |
| | | | | colour - lt ol-gy, and lt gy ([5Y 6/1, 5Y 5/2], N6). | | | | | | |
| | | | | mineralogy - dol 90%, f.g., anh; fl 7%, v.f.g., anh; py 1%, f.g., suh; mnz 1%, v.f.g., anh; qtz 1%, v.f.g., anh; lim trace, v.f.g., anh; REflc trace, v.f.g., anh; mag trace, v.f.g., anh. | | | | | | |
| | | | | 85.50 to 191.45 m - mottled psd-brc with diffuse bndg. bndg often irregular or over printed; common to abnt v.f.g. dol-Carb dykes. fl occurs as brittle frac vnlets and wispy perv patches or bnds and dense masses; v.f.g. mnz? perv or diss throughout ± perv v.f.g dusky y Carb. few expressions of heavy zone (mod ol-br to ol-gy colouration). rare brittle frac qtz vnlets ± fl, common stryololites. rare x-cut F-Carb dykes with v.f.g. to f.g. mag. | | | | ctc @ 191.45 m - gradually decreasing fl. | 88.00 | 800 |
| | | | | | | | | | 91.00 | 815 |
| | | | | | | | | | 94.00 | 780 |
| | | | | | | | | | 97.00 | 770 |
| | | | | | | | | | 100.00 | 700 |
| | | | | | | | | | 103.00 | 800 |
| | | | | | | | | | 106.00 | 790 |
| | 109.00 | 1190 | | | | | | | | |
| | 112.00 | 1030 | | | | | | | | |
| | 115.00 | 700 | | | | | | | | |
| | 118.00 | 685 | | | | | | | | |
| | 121.00 | 600 | | | | | | | | |
| | 124.00 | 600 | | | | | | | | |
| | 127.00 | 800 | | | | | | | | |
| | 130.00 | 815 | | | | | | | | |
| | | 94.18 to 94.65 m - x-cut dykes of clst-sup dol-Carb brc? prtc? f.g. to c.g. ang to sub-ang clst in v.f.g. dol and qtz mtx. dykes at 10° TCA, stylolitic margins. | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 98.00 to 123.50 m - v.f.g lt br to mod r-br REflc? occurring with or replacing fl. | | | 133.00 | 640 |
| | | | | 99.50 to 99.70 m - x-cut dykes of clst-sup brc with gy to lt br ap? clst → b-w fluorescence. | | | 136.00 | 710 |
| | | | | | | | 139.00 | 750 |
| | | | | 103.22 m - x-cut dyke with gy pk ap clst? b-w fluorescence. | | | 142.00 | 800 |
| | | | | | | | 145.00 | 870 |
| | | | | 107.80 to 109.50 m - few ang to sun-ang qtz clst in Carb mtx, rare pockets of soft v.f.g. gr-blk chl?, abnt stylolites. | | | 148.00 | 735 |
| | | | | | | | 151.00 | 1000 |
| | | | | 109.75 to 110.90 m - x-cut F?-Carb dykes; dyke of mtx-sup brc with ap clst → b-w fluorescence. | | | 154.00 | 750 |
| | | | | | | | 157.00 | 780 |
| | | | | ~ 112.00 m - development of diffuse bndg, v.f.g. light br to med r-br REflc? occurring/replacing? fl. fl barren patches with v.f.g. gy-ol mineralization → elevated Y. | | | 160.00 | 670 |
| | | | | | | | 163.00 | 650 |
| | | | | ~ 113.00 m - pockets of f.g. b-gr amph. | | | 166.00 | 600 |
| | | | | | | | 172.00 | 675 |
| | | | | 114.21 to 114.30 m - x-cut v.f.g dol-Carb dyke. | | | 175.00 | 700 |
| | | | | | | | 178.00 | 710 |
| | | | | 120.21 to 120.55 m - x-cut dol-Carb dyke @ 20° TCA. | | | 181.00 | 800 |
| | | | | | | | 184.00 | 750 |
| | | | | ~ 122.00 m - patches of f.g. b-gr amph. | | | 187.00 | 525 |
| | | | | | | | 190.00 | 500 |
| | | | | 123.50 to 128.15 m - psd-brc to brcd core with f.g. to c.g. ang to sub-rnd clst. brittle frac fl vnlets persist, patches of F-Carb with dk gr-gy to ol-gy colouration and v.f.g. dk gy sul? stringers and v.f.g mag ± lim alt at margins. rare brittle frac qtz veins and common x-cut dol or F-Carb dykes. | | | | |
| | | | | 128.15 to 130.18 m - core overprinted by c-cut dol or F-Carb dykes; dk colouration → dk gr-gy to ol-gy. shallow frac from 128.60 to 128.90 m with wkly develop skl → sul smeared across surface. v. rare suh py aggregates, sparse v.f.g mag. from 128.60 to 128.90 m - skl on frac surface, frac at 20° TCA. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>130.40 to 143.50 m - diffuse bndg 40-50° TCA.</p> <p>131.15 to 133.00 m - mm pockets of v.f.g. gr-blk chl? few stylolites.</p> <p>138.66 to 138.86 m - Fe vs fl overprint → bnd of ol-gy to gy-gr F-Carb with fl wkly pervading? along margin or Fe-rich fluid overprinting core? persists with depth.</p> <p>~ 143.50 m - diffuse bndg becomes overprinted.</p> <p>147.70 m - mod og-pk ap clst? → b-w fluorescence.</p> <p>147.75 to 148.50 m - mm to cm pockets of soft gr-blk chl?.</p> <p>149.50 to 191.45 m - mineralization varies between fl and gy-ol patches, both have v.f.g. mnz?. @ 149.50 m - diffuse bndg shallow to ~30° TCA.</p> <p>153.00 to 170.00 m - diffuse bndg often at shallow angles to or undulating along CA.</p> <p>157.46 to 158.08 m - x-cut F-Carb dykes at 25° TCA.</p> <p>164.50 to 178.00 m - brittle frac fl vnlets, dominant set 50-60° TCA.</p> <p>170.00 to 178.00 m -diffuse bndg 35-40° TCA.</p> <p>171.20 to 171.64 m - x-cut F?-Carb dyke(s) of mtz-sup brc, gy-pk ap clst? preset → b-w fluorescence.</p> <p>178.40 to 178.65 m - x-cut ol-gy F-Carb dukes with v.f.g. to f.g. mag.</p> <p>180.43 to 181.25 m - mod ol-br to ol-gy colouration (heavy zone expressions?), few x-cut brittle frac qtz vns.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|-----------|---------------------|---|---------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 191.45 | 229.03 | dol-Carb | A/B-T | 185.00 to 191.45 m - ltr colouration → y-gy, med lt br and perv v.f.g. dusky y Carb ± mnz? throughout; few ol-gy patches. | ctc at 229.03 m - ftt. | | | |
| | | | | RA - min 400 CPS, max 1220 CPS, and avg ~ 750 CPS. | | | | |
| | | | | <u>fl dol-Carb</u> | | | 193.00 | 500 |
| | | | | colour - lt ol-gy, and y-gy ([5Y 6/1, 5Y 5/2], 5Y 7/2). | | | 196.00 | 450 |
| | | | | mineralogy - dol 92%, f.g., anh; fl 5%, v.f.g., anh; mnz 1%, v.f.g., anh; py 1%, f.g., suh; qtz 1%, v.f.g., anh; phl trace, f.g., suh; lim trace, v.f.g., anh; REflc trace, v.f.g., anh. | | | 199.00 | 400 |
| | | | | | | | 202.00 | 390 |
| | | | | | | | 205.00 | 450 |
| | | | | | | | 208.00 | 440 |
| | | | | 191.45 to 229.03 m - interval has expressions of B-zone → perv v.f.g. dusky y Carb ± mnz? and ltr colouration (y-gy to med lt gy). rare ultramafic? clst? intrusions? with lim alt. fl occurs as brittle frac vnlets and qtz, wispy perv patches or bnds and rare dense masses; fl abundance decrease with depth. common x-cut v.f.g. dol-Carb dykes though decreased abundance and size compared to overlying unit, common stylolites. | | | 211.00 | 660 |
| | | | | 191.45 to 210.00 m - frags-rel lim alt ± vugs, mod to dk r-br 80-100%. mottled psd-brc with brittle frac ± ang clst-sup brc. | | | 214.00 | 760 |
| | | | | 195.50 to 210.50 m - ultramafic? clst? intrusions? at 195.66 to 195.88, 198.70 to 199.15 m, 202.27 to 202.58, 207.97 to 208.40 m; ultramafics? have sharp ctcs with Carb and occur proximal to ang clst-sup brc with itsl phl and fl. brittle frags over internal mag be filled with fl or phl, ultramafic may have dendc stringers intruding acicular radiating w needles → amph? Carb? later stained bg to og by lim?, v.f.g. gdmass with phl? chl?; bodies appear highly metasomatized, * x-cut by brittle frac fl. from 195.50 to 215.50 m - FZ? brittled core, sks → skl surfaces in ultramafic? intrusion frac surfaces. sks @ 198.90 m frac surface parallel TCA, skl perpendicular TCA; sks @ 202.50 m curved frac ~ 25° TCA, skl roughly perpendicular TCA. 208.50 to 212.00 m - brittle frac vnlets 40-50° TCA. | | | 217.00 | 620 |
| | | | | | | | 220.00 | 610 |
| | | | | | | | 223.00 | 525 |
| | 226.00 | 540 | | | | | | |
| 210.00 to 214.00 m - few hydrothermal qtz or fl pockets and drusy dol rim. | 229.00 | 450 | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|--|--|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 229.03 | 328.40 | dol-Carb | B | 210.50 to 229.03 m - patches of gr-gy to ol-gy with reduced fl mineralization. mottled psd-brc ± diffuse bndg. | | | | | | | |
| | | | | 211.0 to 214 m - few hydrothermal qtz or fl pockets ± drusy dol rim. | | | | | | | |
| | | | | 213.50 to 229.03 m - B-zone variant, dkr colouration and higher CPS, v.f.g. med r-br to tan mineralization → mnz? REflc?, trace amph. perv dusky y to lt ol-gy Carb throughout. diffuse bndg, dominantly 30-40° TCA. | | | | | | | |
| | | | | ctc at 229.03 m - broken core and minor gouge, drillers noted "mismatch" and " 11 inches hollow pocket". sks on frac below broken core, frac at 24° TCA. | | | | | | | |
| | | | | RA - min 370 CPS, max 790 CPS, and avg ~ 500 CPS. | | | | | | | |
| | | | | <u>dol-Carb</u> | | | | | | | |
| | | | | colour - y-gy, lt ol-gy (5Y 7/2, 5Y 6/1). | | | | | | | |
| | | | | mineralogy - dol 96%, f.g., anh; fl 2%, v.f.g., anh; qtz 1%, v.f.g., anh; py 1%, f.g., suh; mnz trace, v.f.g., anh; lim trace, v.f.g., anh; phl trace, f.g., suh. | | | | | | | |
| | | | | 229.03 to 328.40 m - B-zone, perv v.f.g. dusky y Carb ± mnz throughout; fl occurs as wkly perv patches or wispy bnds, rarely as brittle frac vnlets. sporadic distribution of mm to rare cm vugs ± lim coating or infill; sparse brittle frac qtz vnlets throughout; few stylolites and x-cut dol-Carb dykes. perv v.f.g. pale to gy-ol F-Carb? may pervade core as from discrete bnds. from 229.03 to 243.00 m - frac-rel lim alt, mod to dk r-br 80-100%. from 229.03 to 243.50 m - vuggy text. from 239.61 m to 240.00 m - broken core. | | | | | | ctc at 328.40 m - gradual ↓ fl, colouration change, ↑ phl. | |
| | | | | 229.03 to 243.00 m - intense frac-rel lim alt, v. rare gr-b chl? tlc? vug infill. | | | | | | | |
| | | | | 240.00 to 253.00 m - diffuse bnd 30-40° TCA. | | | | | | | |
| | | | | 240.18 to 240.50 m - lim replacing? portions of fl mineralized patches → F-Carb? sul?. | | | | | | | |
| | | | | | | | | | | 323.00 | 370 |
| | | | | | | | | | | 235.00 | 365 |
| | | | | | | | | | | 238.00 | 350 |
| | 241.00 | 340 | | | | | | | | | |
| | 244.00 | 325 | | | | | | | | | |
| | 247.00 | 305 | | | | | | | | | |
| | 250.00 | 310 | | | | | | | | | |
| | 253.00 | 370 | | | | | | | | | |
| | 256.00 | 380 | | | | | | | | | |
| | 259.00 | 400 | | | | | | | | | |
| | 262.00 | 700 | | | | | | | | | |
| | 265.00 | 380 | | | | | | | | | |
| | 268.00 | 310 | | | | | | | | | |
| | 271.00 | 310 | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 243.50 to 280.50 m - wkly mottled and diffuse bndg. | | | 274.00 | 320 |
| | | | | 248.62 to 248.73 m - lens or clst of f.g. phoscorite? dk br f.g. to m.g. anh to sub grains in v.f.g. ap mtx → b-w fluorescence. XRF → elevated Nb, Ti, Y. | | | 277.00 | 360 |
| | | | | 256.78 to 257.35 m - patches of ol-gy abnt with mnz? and py, elevated CPS → up to 500. | | | 280.00 | 370 |
| | | | | 259.00 to 270.50 m - frac-rel lim alt, mod to dk r-br, 80-100%. | | | 283.00 | 300 |
| | | | | 261.52 to 261.73 m - broken core. | | | 286.00 | 300 |
| | | | | 261.73 to 262.58 m - x-cut dol-Carb dykes at ~5° TCA, stylolitic margins. | | | 289.00 | 290 |
| | | | | 270.19 to 270.41 m - bnd of f.g. to c.g. sub-ang to rnd dol-Carb brc with perv v.f.g F-Carb? and fl. | | | 291.00 | 320 |
| | | | | ~274.15 to 292.78 m - prevalence of v.f.g. perv pale ol to gy-gr F-Carb?, perv dusky y Carb persists. | | | 294.00 | 290 |
| | | | | 280.50 to 328.40 m - mottled psd-brc and diffuse bndg. diffuse bnd dominantly 35-40° TCA. | | | 300.00 | 270 |
| | | | | 282.14 to 282.38 m - bnd of gy-ol F-Carb? with frac-rel mod r-br lim alt. | | | 303.00 | 260 |
| | | | | 288.00 to 327.50 m - mm to rare cm vugs ± lim coating as infill; vuggy zones may have ltr colouration → med lt gy to lt gy → bleaching?. | | | 306.00 | 290 |
| | | | | 289.00 to 291.70 m - x-cut brittle frac qtz vnlets ± fl. | | | 309.00 | 290 |
| | | | | 303.50 to 304.00 m - x-cut brittle frac vnlets with chl? infill. | | | 312.00 | 280 |
| | | | | 309.20 to 309.73 m - x-cut v.f.g. dol-Carb dykes at ~15° TCA. @ 309.22 m - sks and skl on frac at ~15° TCA. | | | 315.00 | 300 |
| | | | | | | | 318.00 | 280 |
| | | | | | | | 321.00 | 260 |
| | | | | | | | 324.00 | 300 |
| | | | | | | | 327.00 | 220 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | | | | |
|--|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|--|--------|-----|
| | | | | | | | DEPTH (m) | CPS | | | |
| 328.40 | 389.70 | dol-Carb | - | ~ 313.00 to 313.61 m - x-cut dol-Carb dyke undulating along CA. | | | | | | | |
| | | | | 322.25 to 323.73 m - x-cut dol-Carb dyke undulating along CA. | | | | | | | |
| | | | | RA - min 200 CPS, max 725 CPS, and avg ~ 315 CPS. | | | | | | | |
| | | | | <u>dol-Carb</u> | | | | | | 330.00 | 240 |
| | | | | colour - lt gy, y-gy (N7, [5Y7/2, 5Y 8/1]). | | | | | | 333.00 | 270 |
| | | | | | | | | | | 336.00 | 280 |
| | | | | | | | | | | 339.00 | 260 |
| | | | | mineralogy - dol 93%, f.g., anh; phl 3%, f.g., suh; qtz 2%, v.f.g., anh; REflc 1%, v.f.g., anh; py 1%, f.g., suh; fl trace, v.f.g., anh; ap trace, v.f.g., anh. | | | | | | 342.00 | 260 |
| | | | | | | | | | | 345.00 | 250 |
| | | | | 328.40 to 389.70 m - dol-Carb with accessory to minor phl and v.f.g. mod r-br to mod r REflc. common stylolites; few x-cut v.f.g. dol-Carb dykes. patches of v.f.g. dk gy sul ± f.g. suh py; v. rare fl. text varies from bnded to mtx-sup dol-Carb or mass to psd-brc appearance. from 328.40 to 346.00 m - bnded and mass brc, or psd-brc patches. | | | | | | 348.00 | 260 |
| | | | | | | | | | | | |
| | | | | 331.00 to 340.00 m - diffuse bndg 35° TCA. | | | | | | 351.00 | 250 |
| | | | | 335.00 to 336.00 m - few fl patches and perv v.f.g. dusky y clst ± mnz?. | | | | | | 354.00 | 250 |
| | | | | | | | | | | 357.00 | 240 |
| | | | | 336.50 to 339.80 m - bnds of mtx-sup dol-Carb brc with phl stringers and pockets of v.f.g. soft gr blk chl? → metasomatized clst. | | | | | | 360.00 | 250 |
| | | | | | | | | | | | |
| | | | | 346.00 to 365.30 m - brc text. | | | | | | 363.00 | 230 |
| | 366.00 | 190 | | | | | | | | | |
| | 369.00 | 180 | | | | | | | | | |
| | 372.00 | 175 | | | | | | | | | |
| 351.58 to 351.80 m - vuggy pockets → some infilled with phl others coated by f.g. euh dol xtls ± lim and sul. trace gal and bar. | 375.00 | 180 | | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|---|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 389.70 | 502.50 | dol-Carb | - | 356.93 to 357.70 m - rare v.f.g. lt ol-gy x-cut dol-Carb dykes. | | | 378.00 | 190 |
| | | | | 365.30 to 376.00 m - reduced phl, lt gy to y-gy colouration and common brittle frac qtz vns. from 365.30 to 380 m - bnded text. from 365.30 to 379.00 m - bndg at 50° TCA. | | | 381.00 | 220 |
| | | | | | | | 384.00 | 200 |
| | | | | 375.50 m - phl mass and py infilling vug and open fracs. | | | 387.00 | 215 |
| | | | | 376.00 to 389.70 m - pale y-br to med dk gy hues throughout core → increased v.f.g. dk gy sul? few metasomatized clst?, phl or sul stringers and stylolites throughout. | | | | |
| | | | | 378.40 to 378.65 m - v.f.g. to f.g. anh mag. | | | | |
| | | | | 379.00 to 389.70 m - bndg, 55-65° TCA. | | | | |
| | | | | 380.00 to 388.00 m - brc → ctsc? text. | | | | |
| | | | | 386.80 m to 387.03 m - x-cut qtz vn at 20° TCA. | | | | |
| | | | | 388.00 to 389.70 m - bnded text. | | | | |
| | | | | RA - min 160 CPS, max 310 CPS, and avg ~ 240 CPS. | | | | |
| | | | | <u>dol-Carb</u> (BD variant → REflc dol-Carb) | | | | |
| | | | | | | 393.00 | 210 | |
| | | | | | | 396.00 | 205 | |
| colour - med lt gy, y-gy (N6, 5Y 8/1). | | | | | | 399.00 | 210 | |
| | | | | | | 402.00 | 175 | |
| mineralogy - dol 93%, m.g., anh; REflc 2%, v.f.g., suh; qtz 2%, v.f.g., anh; fl 1%, v.f.g. anh; py 1%, f.g., suh; ap 1%, v.f.g., anh; phl trace, f.g., anh; sul trace, v.f.g., anh. | | | | | | 405.00 | 210 | |
| | | | | | | 408.00 | 225 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 389.70 to 502.50 m - v.f.g. lt r to med r REflc diss throughout with fl occurring as perv itsl patches as bnds and v. rare dense masses. common patches or bnds of v.f.g. med to dk gy itsl sul ± f.g. anh to suh py. rare x-cut v.f.g. dol-Carb dykes and common brittle frac qtz vnlets ± fl; rare mm vugs and stylolites. from 389.70 to 466.00 m - bnded. 466.00 to 502.50 m - ctsc?. from 389.70 to 453.00 m - bndg 40-50° TCA locl distortion. from 455.00 to 462.50 m - bndg 70° TCA. | ctc at 502.50 m - sharp 40° TCA. | | 411.00 | 220 |
| | | | | 392.45 to 392.83 m - x-cut brittle frac fl vnlets. | | | 414.00 | 220 |
| | | | | 402.07 m - upper frac surface and lower frac surface do not fit together and have different coating → core loss or displacement?; surround core is competent. | | | 417.00 | 240 |
| | | | | 402.07 to 402.16 m - bnd of dol-Carb brc with angular to sub-rnd f.g. to c.g. clst. pbls pockets containing dol-Carb and qtz vn, metasomatism?. | | | 420.00 | 250 |
| | | | | 411.50 to 412.50 m - slightly elevated CPS through v.f.g. sul patches. | | | 423.00 | 255 |
| | | | | 418.04 to 418.10 m - brittle frac fl vnlets and patch of perv itsl fl; fl appears to pervade dol-Carb from brittle frac vnlets. | | | 426.00 | 240 |
| | | | | 422.32 to 422.73 m - few x-cut v.f.g. dol-Carb dykes. | | | 429.00 | 250 |
| | | | | 429.75 m - sul bnd with po. | | | 432.00 | 240 |
| | | | | 429.90 to 429.99 m - x-cut qtz vn at 30° TCA, proximal dol-Carb has accessory phl. | | | 435.00 | 240 |
| | | | | 432.90 to 439.90 m - perv v.f.g. itsl fl bnds, brittle frac qtz vns ± fl throughout. pblc anh to euh dol grains in same fl bnds/patches. few stylolites and rare vugs ± fl or phl infill. | | | 438.00 | 270 |
| | | | | 443.75 m - x-cut qtz vn intruding along pathway of previous dol-Carb dykes. accessory phl and py. | | | 441.00 | 250 |
| | | | | 448.14 to 451.00 m - bndg persist though often distorted, stringers and patches of phl ± sul, brcd bnds. | | | 444.00 | 230 |
| | | | | | | | 447.00 | 225 |
| | | | | | | | 450.00 | 250 |
| | | | | | | | 453.00 | 240 |
| | | | | | | | 456.00 | 250 |
| | | | | | | | 456.00 | 240 |
| | | | | | | | 462.00 | 235 |
| | | | | | | | 465.00 | 260 |
| | | | | | | | 468.00 | 270 |
| | | | | | | | 471.00 | 300 |
| | | | | | | | 474.00 | 310 |
| | | | | | | | 477.00 | 350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|--|-----------|--|------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 502.50 | 517.58 | Glim | - | 453.30 to 453.75 m - minor py and x-cut qtz vn with pk dol, phl, and REflc. | | | 480.00 | 320 |
| | | | | 454.07 to 474.40 m - perv v.f.g. itsl fl bnds ± qtz, rare vugs and few brittle frac fl or qtz vnlets. | | | 483.00 | 260 |
| | | | | | | | 486.00 | 270 |
| | | | | | | | 489.00 | 280 |
| | | | | | | | 492.00 | 280 |
| | | | | 466.00 to 482.50 m - bndg persists but frequently distorted or irregular. sul or phl stringers throughout, brc bnds common. | | | 495.00 | 370 |
| | | | | | | | 498.00 | 330 |
| | | | | 473.80 to 474.30 m - fl patch undulating along CA. | | | | |
| | | | | 482.50 to 502.50 m - REflc becomes trace component, increasing phl ± cc, and loss of discrete bndg. metasomatic phl bnds up to 40 cm occur with cc, break down of dol via si introduction? | | | | |
| | | | | RA - min 160 CPS, max 370 CPS, and avg ~ 250 CPS. | | | | |
| | | | | <u>dol cc phl Glim (metasomatite?)</u> | | | 501.00 | 315 |
| | | | | colour- blk, lt gy (N1, N7). | | | 504.00 | 210 |
| | | | | mineralogy - phl 44%, f.g., anh; cc 35%, v.f.g., anh; dol 15%, f.g., anh; py 2%, f.g., anh; mag 2%, f.g., anh; qtz 2%, v.f.g., anh; ap trace, v.f.g., anh; fl trace, v.f.g., anh; fsp trace, f.g., anh. | | | 507.00 | 180 |
| | | | | | | | 510.00 | 185 |
| | 513.00 | 200 | | | | | | |
| | 516.00 | 200 | | | | | | |
| 502.50 to 517.58 m - clst-sup Glim brc, ang to sub-rnd, f.g. to c.g. clst with itsl cc. cc or dol-Carb stringers throughout, rare x-cut dol-Carb dykes. dol-Carb in ibds over a m occur; common x-cut brittle frac qtz vnlets. from 502.50 to 517.58 m - brc text. | | ctc at 517.58 m - sharp and irregular. | | | | | | |
| 504.28 to 505.25 m - dol-Carb ibd, mass appearance. @ 505.25 m - sks 30° TCA. | | | | | | | | |
| 510.22 to 511.56 m - dol-Carb ibd, mass appearance, brc patches. . | | | | | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|----------------------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 517.58 | 520.53 | cc-Carb | - | <p>RA - min 145 CPS, max 290 CPS, and avg ~ 200 CPS.</p> <p><u>phl cc-Carb</u></p> <p>colour - med gy, gy-og-pk (N5, 10R 8/2)</p> <p>mineralogy - cc 92%, f.g., suh; phl 5%, f.g., suh; mag 3%, v.f.g., anh; py trace, f.g., suh; qtz trace, v.f.g., anh; ap trace, v.f.g., anh; dol trace, f.g., anh.</p> <p>517.58 to 520.53 m - bnded cc-Carb, slightly elevated CPS. from 517.58 to 519.25 m - bndg at 70° TCA. 519.25 to 520.53 m- bndg 50° TCA</p> <p>RA - avg 340 CPS.</p> <p>EOH</p> | ctc at 520.53 EOH | | unit | 340 |

OGQ # 223

GEOLOGICAL DRILL LOG

| | | | | |
|--|---|--|-------------------------------------|----------------------------------|
| Property: Eldor Property | Easting (m): 536163.00 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 06, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312164.90 | Rig Type: Zinex A5 | Date Completed: Oct 08, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087790 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 3.66 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: NQ | End of Hole: 187.70 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: N. Nolde | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|--|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 3.66 | OVB | - | <u>Ovb</u> no core recovery from 0.00 to 3.40 m; bldrs from 3.40 to 3.66 m, ranging from itsl to dk gy dol-Carb. | | | | |
| 3.66 | 20.28 | dol-Carb | A | <u>(fl) dol-Carb</u> hetero unit; mostly v.f.g. lt gy dol-Carb, that contains minimum fl, which occurs locly perv and thereby brcg dol-Carb as it mostly exists itsl in pockets, they are often associated with small fl infilled brittle fracs → fl pumping by Fluorine-rich fluid?; locly itsl and patchy fl gets replaced by ol-gy mins, that might be Fe-carbonates but the text does not change at all, some of the overprints are directly related to late-stage Fe?-Carb dykes, these dykes have a lt ol-gy gdmass and sharp ctc to dol-Carb, but text seems to be the same as in dol-Carb, only that fl is replaced by ol-gy mins; the brittle fl infilled fracs, that cut the dol-Carb might continue in the Fe-Carb dykes, but instead of fl the contain this ol-gy min or qtz; some sections are fl-free and are not cut by brittle infilled fracs, others sections are brc, v. ang fl-free lt gy dol-Carb clst of 2-5 mm in lt ol-gy to ol-gy v.f.g. Fe?-Carb gdmass, this brc gets cut by abnt fl infilled brittle fracs. gy-r mnz? might locly be associated with fl, sul occur in blebs (mostly in F-Carb sections). modal mineralogy - dol (and other carbonates?) 92-94%; fl 4-5%; mnz 1-2%; sul 1%; qtz trace. | | | overall | 850-950, up to 1150 CPS in few sections. |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>3.66 to 11.35 m - perv fl mineralization; itsl throughout, locly creating mass patches and brc. dol-Carb (specially section 7.45 to 7.80m) often fl gets replaced by ol-gy Fe-carbonates?, while text doesn't change at all (especially 7.55 m), some gy ol-gy to ol f.g. dykes of F-Carb with minor sul and sharp ctcs, that clearly cut dol-Carb, but inherit its text with ol-gy mins instead of fl (especially 6.10 m to 6.90m), at end of interval fl becomes loss.</p> <p>@ 9.50 m - few hydrothermal qtz patches with rim of re-xtl dol.</p> <p>11.80 to 13.50 m - brc of minor to abnt fl-free lt gy ang 1-4 mm dol-Carb clst in v.f.g. med lt gy to wk lt ol-gy dol or F-Carb gdmass, fl is trace and occurs in few blebs and itsl after that 9 cm core loss.</p> <p>13.50 to 16.85 m - brc of similar ang dol-Carb clst of 1-20 mm in lt ol-gy to ol-gy F-Carb mtx, whole interval gets cut by abnt brittle fl, infilled fracs; some fl occurs also itsl on grain boundaries of dol-Carb clst.</p> <p>@ 15.80 m - several dk ol-gy homo patches in brc.</p> <p>16.00 to 16.50 m - several lt ol-gy up to 10 cm dol-Carb clst, that have high amount of ol-gy Fe-carbonates and xnt? → 1.8% Y, 2000 ppm Th on XRF.</p> <p>16.85 to 20.28 m - mostly lt ol-gy to ol-gy overprinted, fairly homo dol-Carb with few patches of original fl-rich dol-Carb (especially 17.40 to 18.40m); these are several patches of hydrothermal? bio and qtz and w dol.</p> <p>end of unit is defined by end of F-Carb hosted brc, after that Fe overprinting is less abnt.</p> | | | 6.10-6.90 m | 1150 |
| 20.28 | 82.61 | dol-Carb | A | <u>fl dol-Carb</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|------------------|---|-----------|---------|---------------|---|
| | | | | | | | DEPTH (m) | CPS |
| 82.61 | 109.65 | dol-Carb | A/B-T | <p>59.65 to 71.05 m - text is patchy and psd-brc, fl occurs <i>only</i> in well defined patches as blebs, while the dol-Carb gdmass is fl-free, these patches a sub-rnd shape, some fl infilled fracs cut text. dol-Carb gdmass is psd-brcd with minor f.g. to m.g. dol xtls in v.f.g. lt gy dol-Carb gdmass, that is mostly overprinted by y-gy and lt ol-gy Fe-carbonates?, that might be associated with mnz?.</p> <p>61.00 to 63.10 m - increased gy-r mnz? content associated with fl patches.</p> <p>63.15 to 63.45 m - abnt amph and qtz and blebs.</p> <p>71.10 to 72.10 m - minor to abnt fl itsl and in patches, locly brcg dol-Carb, dol-Carb gdmass lt gy to lt ol-gy and v.f.g. to f.g.</p> <p>72.10 to 82.61 m - lt gy to lt ol-gy v.f.g. dol-Carb gdmass with minor to abnt f.g. to m.g. dol xtls (re-xtl? overprinting by lt ol-gy carbonates?) → psd-brc. gdmass is mostly fl-free, but common fl-rich patches and few sections (especially see 78.00 to 79.05 m, 79.40 to 80.05 m).</p> <p><u>dol-Carb</u></p> <p>mostly lt gy to med lt gy v.f.g. dol-Carb, that is often over-printed by dusky y carbonates resulting in a mottled text (dusky carbonates might be associated with mnz?); minor sections have v. lt gy to w f.g. to m.g. dol xtls, which occasionally also occurs as f.g. patches/clsts? → re-xtls?; in several sections dol-Carb is w fol mostly defined by oriented itsl streaks of fl; fl is on minor phase and occurs mostly as blebs and itsl in patches and bnds, brittle fracs infilled with fl are less common than in previous unit; amph occurs in traces as well as sul; some of the fl patches are again replaced by ol-gy Fe-carbonates? and sul.</p> <p>modal mineralogy - dol (and other carbonates) 97%; fl 2%; sul 1%; amph/qtz trace.</p> <p>82.61 to 84.05 m - brc?/hydrothermal overprint? med lt gy v.f.g. dol-Carb gdmass with several f.g. to m.g. dol xtls; several rnd up to 12 cm clst? of f.g. w dol-Carb, that is broken and intruded by med lt gy dol-Carb; several bio vnlets and patches, some WR? clst with transparent alb? and bio. @ 84.35 m - wk fol 50° to CA. @ 86.70 m - wk fol 53° TCA.</p> | | | | <p>constantly decreasing from 800 to 400 CPS.</p> |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 109.65 | 148.18 | dol-Carb | B | <p>84.05 to 87.10 m - w fol with med lt gy and lt gy bnds, some fl-rich bnds with late-stage v.f.g. lt gy to dusky y dol-Carb dykes x-cut to CA from 85.40 to 86.00 m.</p> <p>@ 90.50 m - 10 cm patch/clst? of w f.g. dol-Carb with some sul x-cut → re-xtl? or patch of non-overprinted dol-Carb?.</p> <p>91.60 to 92.00 m - increased fl content with minor w to cr dol phenos? of 1.2 mm.</p> <p>@ 96.80 m - lim infilled frac; lim replaces hem; on one end of frac there are broken well zoned partially idiomorphic fl xtls of up to 4 mm, zonation is growth-rel as it is parallel to xtl planes → might be inherited of former dol xtls as in one xtl there is dol in the centre → pseudomorphic after dol?.</p> <p>@ 107.40 m - several idiomorphic w dol xtls of 2-3 mm in fl-rich patch.</p> <p>end of unit is defined by change in overall colour to v. lt gy to y-gy and a constant RA of 300-400 CPS.</p> <p><u>dol-Carb</u></p> <p>hetero unit, dol-Carb v. lt gy and lt gy and often overprinted by y-gy carbonates, which might be associated with mnz?, and lead to a mottled text; fl is again a minor phase and occurs as blebs and itsl in patches, while some sections of up to few ms are fl-free; fl mineralization is often accompanied by minor amount of qtz blebs and small brittle fracs infilled with fl and/or qtz sul vng is locly common, but minor overall. v.f.g. to f.g.</p> <p>modal mineralogy - dol (and other carbonates) 95-96%; fl 2-3%; qtz 1%; sul 1%.</p> <p>109.65 to 117.50 m - increased fl content in several patches and bnds, fl is probably ilk with gy-r mnz? and qtz – fl ~4-5%, locly up to 10%; dol-Carb is mottled and mostly lt gy to y-gy.</p> <p>@ 111.40 m - 10 cm section with min itsl amph.</p> <p>@ 116.10 m - several py blebs replaced by/ilk with po.</p> | | | overall | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| 148.18 | 158.46 | dol-Carb | - | <p>117.50 to 125.50 m - mostly v. lt gy more f.g. dol-Carb with common y-gy carbonate overprinting, trace fl and common sul vnlets and small patches.</p> <p>125.50 to 128.60 m - wk bnd with minor fl and qtz blebs throughout in v. lt gy dol-Carb gdmass with common y-gy carbonate overprinting.</p> <p>128.60 to 130.50 m - v lt gy and lt gy to y-gy mottled dol-Carb with trace fl, qtz blebs occur in few bnds.</p> <p>130.50 to 133.30 m - minor to abnt qtz blebs and minor fl as blebs in patches (especially 132.00 m).</p> <p>133.30 to 140.45 m - hetero interval; mostly lt gy to y-gy f.g. dol-Carb brc by sul-rich? med dk gy vnlets, few sections display f.g. to m.g. v. lt gy to w patches?/clsts? of dol-Carb (re-xtl?) → see especially 136.70 to 138.20 m. fl-richer section from 131.60 to 135.75 m, but generally trace fl. from 139.20 to 139.75 m - few blebs of mod r-br REflc → first trace feature of "BD zone".</p> <p>140.45 to 143.20 m - minor diss fl blebs and abnt fl infilled brittle fracs, minor to trace qtz blebs.</p> <p>143.20 to 146.40 m - hetero interval; f.g. to locky m.g. lt gy to y-gy dol-Carb with several med gy and med lt gy patches/bnds (micro-sul-rich?) and minor sul vnlets; fl is trace as blebs in patches, few sections display minor mod r-br REflc? (see especially 144.50 to 145.40 m, 146.15 to 146.10 m).</p> <p>146.40 to 148.05 m - v.f.g. to m.g. v. lt gy to y-gy with minor fl as blebs in patches with minor blebs of qtz and minor to abnt med lt gy patches (micro-sul-rich). last 10 cm of unit have some text; except that fl is replaced by lt ol-gy min (Fe-carbonates?).</p> <p>end of unit is defined by continues onset of mod r-br REflc and change in colour.</p> <p><u>ap dol-Carb</u></p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>mostly v. lt gy f.g. to m.g. dol-Carb with minor to trace itsl REflc, while the amount varies in sections, minor ap occurs also itsl, this gives the rock a mottled to psd-brc appearance; sul occurs in common vnlets and blebs, qtz exists in traces in blebs as well as fl, towards end these are some bnds of cc-Carb.</p> <p>modal mineralogy - dol (and other carbonates) 91-93%; ap 5-6%; REflc 1-2%; sul 1%; qtz trace.</p> <p>151.10 to 151.60 m - abnt sul vnlets and itsl ap brc v. lt gy f.g. to m.g. dol-Carb, text is cut by v.f.g. med dk gy-gr late-stage dol-Carb dykes of 8 cm.</p> <p>152.95 to 153.40 m - minor fl blebs.</p> <p>153.90 to 154.15 m - abnt itsl ap and minor itsl REflc with abnt m.g. to c.g dol xtls → psd-brc.</p> <p>154.15 to 155.10 m - several brittle fracs infilled with qtz x-cut (< 3 mm thickness).</p> <p>155.40 to 156.30 m - v. pale or f.g. dol-Carb with mostly v. vuggy rock, goes over in cc-Carb, but both ctcs are not well defined, Mn-rich carbonates? due to hydrothermal activity? minor to abnt Nb ilm and qtz blebs ± sul; bio vnlets and rims in the vicinity of v. lt gy f.g. dol-Carb dykes that are x-cut, @ 156.30 m - smooth transition in pk-gy cc-Carb without text change, cc-Carb has also ilm, blebs but no qtz blebs, @ 156.45 m - 8 cm patches with minor amph, mag and ilm?.</p> <p>157.00 to 157.50 m - homo mass f.g. to m.g. w dol-Carb with trace sul and ap.</p> <p>157.50 to 158.46 m - w dol-Carb with abnt 5-10 cm bnds and clst of w and pk-gy cc-Carb; both don't differ in text.</p> <p>end of unit is defined by onset of WR/Glim.</p> | | | overall | 250-300 |
| 158.46 | 187.70 | WR | - | <u>dol cc alb bio WR</u> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>med dk gy to dk gy v.f.g. WR, that mostly consist of alb? with minor to abnt itsl phl and cc with locly pblsc phl xtls of up to 2cm, there are common bnds/frag/clst of unmineralized dol-Carb and/or cc-Carb; locly med gy alb clst of up to 10 cm in phl-rich gdmass, which has the appearance of a ctsc brc.</p> <p>modal mineralogy - phl 20%; cc 20%; dol 15%; alb 43%; sul 2%.</p> <p>158.46 to 161.00 m - ctsc brc of med gy ang broken alb? clst of ap to 10 cm in v.f.g. phl-rich dk gy mtx with trace itsl cc; abnt dol-Carb bnds and frags (~30%) with minor cc.</p> <p>161.00 to 163.10 m - med dk gy f.g. alb WR with minor to abnt itsl bio and cc, several dol-Carb frags/bnds of up to 10 cm.</p> <p>163.10 to 164.25 m - f.g. to m.g. dyke of v. lt gy to lt gr-gy dol-Carb with few patches/bnds of pk-gy cc-Carb and minor bio vnlets.</p> <p>164.25 to 165.60 m - pblsc phl xtls of up to 1 cm.</p> <p>173.90 to 174.20 m - cc-Carb is brcg and intruding alb-rich WR in ~ 8-12 cm clst.</p> <p>182.80 to 187.70 m - abnt pblsc phl xtls of up to 4 cm.</p> <p style="text-align: center;">EOH</p> | | | overall | 200-250 |

OGC # 223

GEOLOGICAL DRILL LOG

| | | | | |
|---|------------------------------------|-------------------------------------|------------------------------|---------------------------|
| Property: Eldor Property | Easting (m): 536669.09 | Drill Company: Bodnar Drilling Ltd. | Date Started: Oct 11, 2011 | Downhole Survey: Yes |
| Expl. Area: Ashram | Northing (m): 6312462.71 | Rig Type: Zinex A5 | Date Completed: Oct 18, 2011 | Survey Tool: EZ-Trac (MS) |
| Claim No: 2087791 | Coordinate System: NAD 83, Zone 19 | Rod type: 10 foot | Casing Status: Pulled | Survey Interval: |
| NTS: 24C16 | Collar Survey Method: DGPS | Hole type: Diamond drill | Casing Depth: 6.10 m | Note: |
| Owner: Commerce Resources Corp. | Spotted Azimuth: 230° | Core size: NQ | End of Hole: 757.73 m | |
| Operator: Dahrouge Geological Consulting Ltd. | Spotted Inclination: -45° | Core storage: Camp Valcourt | Logged By: R. Renz | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|---------------------------|------------------|---|-----------|---------|-------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 0.00 | 2.68 | OVB | - | <u>Ovb</u> Ovb down to 2.68 m, starts with gy ol-gr rock, appears to be competent core. v.f.g. plag, qtz, hbl, py (px?), and minor sul, bio, mass eqgr. minor Gr and r shale? minor hem. | | | | |
| 2.68 | 54.59 | cc-Carb + Glim + dol-Carb | - | <u>mag bio cc-Carb with cc Glim and minor dol-Carb</u> dk gy to blk, minor lt gy patches and intervals. minor lt to mod r sections. unit is hetero. cc-Carb is prtc, patchy to blebby text is common. brc locky, Glim is fairly mass. significant flt near top of unit. f.g. to m.g. modal mineralogy - (cc-Carb) cc 82%; bio 10%; mag 5%; ap 2%; py 1%; Nb-ilrn trace. breaks between core pieces wthd/rnd for first couple m, minor broken/rubbly zone. cc-Carb starts fairly homo, prtc with m.g. bio and mag xtls diss. minor clean cc patches, lt gy to pale pk ap diss evenly. @ 6.75 m - 5cm fl patch/clst in w to pale pk cc bnds with ap patches (pale gr), continues down to 7.30 m with bio patches locky. 7.40 to 10.35 m - increased bio, ibd Glim locky (especially below 8.95 m, bio 50-90%). bio form lrg bocks locky with itsl cc. alb bnds/clst locky, dk gy, hard. 9.00 to 10.35 m - core more broken. | | | unit | 170-250 |
| | | | | | | | cc-Carb typically | > 200 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>10.35 to 11.45 m - ibd dol-Carb, lt gy with minor lt r bnds (trace f.g. bsn/prs in mtx). cc pockets locky.</p> <p>13.08 to 19.92 m - more similar dol-Carb commonly mixed with cc patches and cc-Carb (especially 14.20 to 17.85m), abnt REflc from 13.38 to 14.20m and 18.35 to 18.60m, locky up to few % typically igr to euh dol pbls, cc in gdmass locky.</p> <p>15.85 to 16.80 m - more ibd Glim, more mass, no big bio bocks, minor alb, cc mtx.</p> <p>18.74 to 19.92 m - FZ, core very broken, fracs have y coating. @ 19.50 flt plane with gouge, and 75° TCA.</p> <p>*Carb seems to be entering dol-Carb/BD zone just above flt. bellow its back into cc-Carb similar to top of hole. if dol-Carb here matches dol-Carb of unit bellow (starting 54.59m), displacement along core is ~35 m.</p> <p>19.92 m to end - mixed cc-Carb (same as described at top) and Glim.</p> <p>20.98 to 21.55 m - cc-Carb is pk-gy-og, common euh dol pbls diss, up to 8 mm.</p> <p>21.80 to 24.17 m - homo prtc cc-Carb.</p> <p>24.55 to 37.40 m - Glim bnds most abnt, cc mtx up to 50% locky, mostly <20%. mostly f.g. mass lrg bocks locky, brc sections typically have clst with alb cores, str biotized.</p> <p>@ 24.25 m - more dol pblc with dol-Carb bnd just above, gradational ctcs (same text, cc replaced by dol). more dol-Carb at 25.10 m (late-stage dyke?).</p> <p>@ 32.50 m, 33.80 m, and 35.00 m - dol-Carb bnds, all 10-20 cm, cc patches nearby (w).</p> <p>37.40 m to end - dominantly cc-Carb.</p> | | | 25.15 | 350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 54.59 | 77.78 | dol-Carb | - | <p>43.44 to 44.00 and 44.65 to 44.90 m - v. minor mafics.</p> <p>45.00 to 46.25 m - increased bio, more f.g. and mass, bio up to 50%. sharp ctcs with surrounding cc-Carb.</p> <p>50.00 m to end - cc-Carb has patchy to foggy text, no longer prtc (no mag, bio pheno).</p> <p>@ 54.30 m - gy-pk bnd - fsp? hard. ap pockets. gradational upper ctc with cc-Carb, sharp bellow - seems to be dol > cc but text is that of cc-Carb.</p> <p>fairly sharp lower ctc with dol-Carb, gradually decreasing cc towards ctc but sharp text change.</p> <p><u>ap dol-Carb</u></p> <p>lt gy to mod r. patchy to pbic text. perv REflc, abnt near centre of unit ibd Glim bnd. f.g. to m.g.</p> <p>modal mineralogy - dol 89%, ap 10%; REflc 1%; sul trace.</p> <p>54.59 to 62.70 m - Carb is hetero, pbic-patchy, w to lt gy dol xtls and patches. dol pbic are euh to suh, up to 1 cm, locly up to 50%. mtx only slightly dk gy to gr, typically with ap (up to 30% locly). REflc in mtx here is up to 1% locly, r tinge. late-stage Carb dykes? x-cut locly, < 8 cm, lt ol-gy, sharp ctcs.</p> <p>57.90 to 58.61 m - broken core, unit as a whole has many broken bits with core loss.</p> <p>@ 59.74 m - frac coated with y to r-br lim? and Nb-ilm? good RA.</p> <p>62.70 to 63.75 m - ibd Glim, dk gy, mass to brc, bio > 50%, cc in mtx, alb? diss py 5%, sharp ctcs.</p> | | | unit | 190-250 |
| | | | | | | | 59.74 | 300 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 77.78 | 92.30 | dol-Carb | - | <p>64.50 to 70.10 m - abnt REflc with pblic text; dol pbls w to lt gy, up to 1 cm, euh to suh. Carb is mod r with f.g. REflc in mtX typically 1-3%, loclly up to 5%.</p> <p>@ 64.65 and 69.10 m - with uniform dol bnds x-cut.</p> <p>70.10 m to end - pblic text still dominant but overall more hetero than above. fewer and smaller dol pbls. reduced REflc, mostly trace but loclly up to few %. mtX typically dk gy to lt gr-gy to y-gy, ap consistently 5-20% rare late-stage Carb dykes x-cut.</p> <p>73.35 m - frac/vug filled with m.g. to c.g. bio and minor pk-gy Carb.</p> <p>sharpish lower ctc, text and minogical change.</p> <p><u>ap dol-Carb</u></p> <p>lt gy to y-gy, med gy bnds hetero text. patchy with mass sections ibd Glim bnds loclly. f.g.</p> <p>modal mineralogy - dol and cc 91%; ap 6%; bio 1%; mag 1%; sul 1%; Nb-ilm? trace.</p> <p>77.78 to 78.78 m - Glim/WR brc, abnt alb clst (hard br-gy) with biotized rims linking them together, med gy Carb mtX. further down, large alb clst and bio patches, reduced Carb mtX. sharp lower ctc to Carb with y-gy band.</p> <p>78.78 to 81.80 m - Carb has patchy text with bio stringers/clusters loclly.</p> <p>@ (near) 80 m - trace REflc, lt r gdmass.</p> <p>80.10 to 80.40 m - Carb homo mass, lt b-gy, pk under UV - cc mixed in? no reaction to acid. below patches/clst unit ap is fairly perv in gdmass and blebs.</p> <p>81.80 to 82.85 m - ibd Glim, heavily biotized alb clst/frag, up to few cm, ang. dol-Carb mtX and dykes loclly, sharp ctcs.</p> | | | unit | 200-280 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------------------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 92.30 | 118.45 | cc-Carb + dol-Carb | - | <p>82.85 m to end - lt gy-w gdmass with either patchy or mass text loclly mass dol is pk under UV? diss mag common, up to 2% loclly.</p> <p>med gy bands scattered - micro-sul.</p> <p>85.10 to 85.75 m - Carb v. hetero, bio bands/clusters between patches, up to 15% locally.</p> <p><u>mixed ap arf cc-Carb and ap cc dol Carb.</u></p> <p>cc-Carb lt-gy to gr-pk to mod org-pk with dk gy-b min clusters. most of unit lt to med gy, loclly y-gy to r. unit v. hereto, patchy to mottled irregular bnded. minor REflc throughout, cc-Carb bnds loclly (especially start) and mixed cc in mtx common f.g. to m.g.</p> <p>modal mineralogy (cc-Carb) - cc 82%; arf? (b amph) 8%; mag 2%; bio 3%; ap 5%.</p> <p>modal mineralogy (dol-Carb) - dol 88%; cc 6%; ap 5%; REflc trace; bio 1%; sul trace; fl trace.</p> <p>92.30 to 95.42 m - unit stats with cc-Carb. mostly pl cc, prtc - m.g. to c.g. arf, bio, mag. arf is dk b, loclly up to 25%. mag and bio loclly up to 15% each (not as common).</p> <p>ap present in all lithos in similar amounts, avg 5%. mostly smaller blebs and in mtx, bnds loclly.</p> <p>95.42 m to end - dol-Carb dominates but cc-Carb bnds ibd loclly mostly < 20 cm but > 50 cm bnds at 101.15m, 103.30 m, 104.50 m. these cc-Carb typically have bio > mag, amph. from 104.00 to 104.50 m - core 1/2 cc-Carb, x-cut along CA by gy-pk dol-Carb with REflc. cc common in dol-Carb mtx, < 10% pk under UV.</p> <p>95.42 to 103.30 m - Carb is med to dk gy, irregular bnded, minor REflc patches bio and micro-sul >5%, trace fl blebs loclly.</p> | | | unit | 200-400 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|--------------------|---------------------|---|-----------|---------|-------------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 118.45 | 150.77 | dol-Carb + Glim | - | 105.05 to 109.25 m - abnt REflc in mtx, locly up to few %. mtx (aside from mod r REflc) is lt gy to locly y. dol pbls common, suh, <0.5 cm. | | | | |
| | | | | 109.5 to 110.75 m - Carb fairly homo, mass, lt-gy to pale gr-y. more mineralization /other mafics (trace REflc) minor patchy/mottled? starting to develop dol pbls?? text locly. | | | | |
| | | | | 109.40 to 109.75 m - 3 cm qtz vn. | | | | |
| | | | | 110.75 m to end - Carb hetero again, patchy text. mtx lt gy to med gy to y-gy. REflc patches common, locly up to few %, but mot perv as above. bio stringers locly, especially common below 116.50 m, up to 5%. | | | | |
| | | | | 111.75 m to end - late-stage dykes/patches x-cut locly, y-gy , typically layered with REflc, v.f.g. | | | | |
| | | | | @ 111.11 m - fl patch, < few cm and < few %. | | | | |
| | | | | sharp lower etc. | | | | |
| | | | | <u>dol-Carb with ibd Glim and minor Phl</u> | | | 120.7- 136.45 | 300-370 |
| | | | | lt to med gy, y-gy. Phl is dk gr to gy, Glim bnds br to blk. unit v. hetero patchy and fracd. v. pale og carbonate common near end. f.g. | | | 143.95- 150.77 | 290-350 |
| | | | | modal mineralogy - dol 88%; cc 2%; ap 4%; bio 1%; mag trace; qtz 4%; fl trace; sul 1%; REflc trace; pych? trace; Nb-ilm? trace. | | | | |
| | | | | 118.45 to 120.70 - dk gr Phl, f.g. gr orientable mins (mica, chl, srp?), start as Glim? (more br, bio). cc mtx locly, up to 5%. dol blebs diss locly (altd Glim to chl rock?). | | | 118.45- 120.7 | 200-250 |
| | | | | 120.70 to 123.10 m - core is med to dk gy, hard qtz ~50%, cc 5%, sol 40%, bio 1%, all v.f.g. py and mag diss locly up to 10%. rare y-gy Carb dykes x-cut locly. | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|---------------------------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>123.10 to 136.45 m - lt to med gy dol-Carb dominates, mass to perv, mod to abnt frac (bio, sul fill), also qtz vnlets common diss mag locky up to 5%. f.g. qtz in mtx, Carb is harder than normal. ap blebs fairly consistently diss. ibd Glim/WR bnds common, > 30 cm long, commonly fracd/brc, mostly bio, but some have alb? clst/frags (br-gy, hard), py diss locky.</p> <p>123.75 to 125.70 m - trace REflc in mtx, slightly r hue. minor late-stage Carb dykes x-cut, y-gy.</p> <p>136.45 to 141.00 m - ibd Glim, dk br to blk, > 80% bio usual, minor cc in mtx. w dol-Carb dykes x-cut common. diss py locky, no alb clst, lt gr-silver mica at 139.85 m. sharp upper ctc but lower ctc is gradational to gr altd rock - bio being replaced by chl.</p> <p>141.50 to 141.80 m - Glim bnd.</p> <p>141.00 to 143.95 m - minor bio remains locky cc bnds x-cut locky, up to few cm.</p> <p>143.95 to 146.15 m - lt gy to gy-y-gr, mass gdmass wk bnded with med gy bnds (micro-sul). minor diss py and mag locky. minor REflc in r bnd at end, 8 cm. @ 144.50 m - bndg at 50° TCA.</p> <p>146.15 to 146.80 m - gy-pk, diss mag, bio locky wk bnded with ap.</p> <p>146.80 to 148.14 m - v. pale og carbonate bnd (sid? mix dol and ?) mod bnded, bio and py diss in bnds. @ 147.50 m - bndg at 50° TCA.</p> <p>148.14 to 149.36 m - lt gy to pale ol dol-Carb with common fl patches, gdmass mass to foggy text, f.g. fl up to 15% locky, trace REflc blebs. gr amph clusters below 149.00 m, up to 10%.</p> <p>149.36 m to end - mixed cc-Carb and dol-Carb, patchy text. mag and py diss locky.</p> | | | 136.45-143.95 | 210-280 |
| 150.77 | 178.57 | cc-Carb + Glim + dol-Carb | | <u>dol Glim with ap dol-Carb and ap cc-Carb.</u> | | | unit | 200-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 178.57 | 185.47 | dol-Carb | - | <p>dk gy to blk with w to lt gy and gr-pk Carb bnds. mass abnt Carb dykes/bnds x-cut. abnt frags, locky brc. Carb is mass and foggy. f.g.</p> <p>modal mineralogy - (Glim) bio 90%; dol 8%; cc 1%; py 1%; arf trace.</p> <p>sharp upper ctc, unit above cut off with tan late-stage Carb dyke, Glim below. these tan dol-Carb dykes are common top half, and few cm, v.f.g. cut Glim and Carb alike reduced farther down.</p> <p>150.77 to 155.00 m - Glim is not as mass as further down, bio 60-80% with increased cc and sol in mtx, only small dykes x-cut here, < 15cm, dominantly Glim. abnt dol-Carb dykes x-cut Glim, w, range from 4 cm to 1 m.</p> <p>155.00 to 156.70 m - mass dol-Carb band, minor bio and py frags.</p> <p>156.70 to 168.62 m - Glim with common dol-Carb bands (10-100 cm), Glim dominant litho.</p> <p>168.62 to 169.75 m - cc-Carb bnd, mass to wk bnded. mag diss up to 7% locky, perv, expect pk bnds.</p> <p>169.75 to 171.75 m - fairly solid Glim bnd, Carb bnds rare, <<15 cm. @ 170.00 m - lter gy bnd with 10% py diss.</p> <p>171.75 m to end - cc-Carb (up to 2 m) > Glim (up to 1.3 m). small dol-Carb dykes in Glim, minor, < 10 cm. ap in mtx of both Carb types avg 5%. mag diss in both Carb types commonly few % up to 20% around 168.50 m. from 175.15 to 177.30 - cc-Carb, med gy to pk-gy. mag commonly diss up to 5%, Nb-ilm/pych? locky. from 161.50 to 161.80 m - py up to 15%, diss clusters.</p> <p>sharp lower ctc, text change, no cc below.</p> <p><u>ap dol-Carb</u></p> | | | 175.15-177.30 | 350-550 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 185.47 | 207.10 | dol-Carb | - | <p>w to lt gy to pale gr-y. mass to pblc. f.g. to m.g.</p> <p>modal mineralogy - dol 95%; ap 5%; mag trace; py trace; bio trace; mnz trace; fl trace.</p> <p>178.57 to 182.10 m - Carb w to lt gy, mass to foggy with minor med gy bnds. diss mag avg 2%. ap > 5%.</p> <p>@ 178.80 m - 30 cm heavily fracd dol-Carb bnd, w, bio and py few %. sharp ctcs to rest of Carb, top is smeared, bottom had 5 cm lt ol-gy late-stage Carb? with w dol grains floating (look broken off from Carb below, rnd).</p> <p>@ 179.60 and 179.85 m - mod y Carb bnds, carry mnz?.</p> <p>181.40 to 181.70 m - Glim patch, only half core, fragmented and biotized alb, diss py.</p> <p>182.10 to 182.55 m - pblc text, w suh to euh dol xtls up to 25%, < 0.5 cm, mtx is med gy dominantly ap with trace diss REflc.</p> <p>182.55 to 182.80 m - Carb is y to med gy. smeared.</p> <p>@ 182.80 m - sharp ctc, text doesn't change much but minogically quite different. ap above, below gdmass commonly mod y - f.g. diss mnz (noticeable TREE increase) mnz.</p> <p>182.80 m to end - pbls to mottled text w dol grains typically rnd but locally euh. mod y mtx is key.</p> <p>@ 184.35 m - minor gy frags (sul?) and REflc.</p> <p>sharp lower ctc introduction of perv REflc, py 5-10% at ctc.</p> <p><u>dol-Carb</u></p> | | | unit | 200-320 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>lt gy to y-gy, mod r bnds common. mottled to pblic text, locky wkly bnded. perv REflc. f.g. to m.g.</p> <p>modal mineralogy - dol 97%; REflc 1%; ap 1%; sul 1%; fl trace.</p> <p>text fairly consistent from entire unit, variable mineralogy . ap mostly non-existent, locky bnds/blotches up to 15%. dol pbls common throughout, suh to euh, < 0.5 cm, w, up to 50% (reduced mtx).</p> <p>185.47 to 188.25 m - hetero mix of bnds, dol pbls vs. REflc vs. sul. REflc bnds are 1-15 cm, bsn/prs is f.g. in mtx up to few %, minor dol pbls. sul are f.g. diss in mtx, still igr to dol pbls, up to 5% sph , py, and trace mag, dk gy. pale ol to y-gy bnds x-cut locky (late-stage Carb dyke), commonly layered with REflc.</p> <p>@ ~188.50m - abnt REflc, mod r, up to few %.</p> <p>dol pbls abnt below with REflc itsl.</p> <p>188.50 to 193.25 m - reduced REflc in mtx/bnds. @ 190.14 m - lrg clusters locky up to few % (10%).</p> <p>189.15 to 192.50 m - mtx commonly y-gy, no pbls in y-gy Carb. minor gy sul blebs. fl blebs locky up to few %, rare.</p> <p>193.25 to 194.75 m and 195.25 to 196.00 m - v. rare REflc. Carb lt gy to y-gy, common pbls. minor gy sul bnds.</p> <p>@ 194.10 m - fl patch, up to 5%.</p> <p>@ 195.90 m - Carb lt gy and uniform, no pbls, trace other mineralization .</p> <p>196.00 to 199.85 m - abnt REflc again, f.g. in mtx, up to few locky. mostly mod r with w to lt gy dol bnds. dol pbls not as significant as above but still present.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 207.10 | 276.20 | dol-Carb | - | <p>@ 198.60 m - 15 cm dk gy bnd - abnt bio filled frac. Carb is pale ol in between frac.</p> <p>199.85 m to end - REflc reduced, not continuous (abnt around 204.00 m). Carb gdmass similar to above. locky wkly, bnded, rare gy sul bnds. @ 200.25 m - y-gy patch, overprinting lt gy REflc Carb, mass, aph.</p> <p>204.50 to 205.25 m - Carb mod bnded, y-gy vs med gy bnds, no REflc, minor w patches with dol pbls. @ 205.15 m - bndg at 70° TCA.</p> <p>205.75 to 206.04 m - y-gy mtx.</p> <p>206.30 to 206.60 m - med gy mass to patchy Carb with mod y streaks and minor REflc diss. 99% v.f.g. eqgr dol. sharp ctc at 206.60 m with lt gy pblc Carb with minor REflc, homo to end.</p> <p>sharp lower ctc.</p> <p><u>ap dol-Carb</u></p> <p>lt gy to y-gy, med gy, mod pk to mod r. unit fairly constantly and uniformly bnded. locky patchy and brc. REflc common most of unit. increased bio near end. f.g.</p> <p>modal mineralogy - dol 90%; ap 10%; REflc trace; sul trace; bio trace; fl trace.</p> <p>unit starts with introduction of ap, sharp ctc. ap throughout is perv, bnds and blebs, locky up to 25%. REflc not consistent, but common bnds and sections with REflc in mtx, mostly trace but tints Carb mod pk to mod r.</p> <p>@ 208.30 and 208.50 m - mag and py patches.</p> <p>@ 209.25 m - bndg at 80° TCA.</p> | | | 207.1-258.65 | 200-290 |
| | | | | | | | 258.65-276.20 | 300-360 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>210.85 to 211.75 m - Carb is mostly lt gr, dol xtls up to few mm (pbls?), homo, >99% dol, pale ol to lt gy bnds locly (with micro-sul trace and diss bsn/prs).</p> <p>212.14 to 215.40 m - dominantly pblic text, not well bnded w to lt gy dol pbls with REflc or (more commonly) gy sul (sph and py up to 5% locly, rare mag) igr.</p> <p>216.90 to 222.40 m - increased REflc, mostly bnds with trace REflc in mtx, but also rare c. clusters diss locly (ap to few %). bnds locly not v. uniform. w dol patches/clusters scattered locly. @ 217.75 m - bndg at 80° TCA. @ 220.75 m - bndg at 60° TCA.</p> <p>222.40 to 223.20 m - increased fracs and Carb locly brc.</p> <p>223.75 to 224.40 m - common bio strings/bnds, dk gy, up to 5%, + sul.</p> <p>224.75 to 230.00 m - gdmass commonly y-gy, increased gy sul bnds, minor dol pbls.</p> <p>@ 226.40 m - fl blebs mixed in REflc bnds.</p> <p>@ 226.50 m - bndg 60° TCA.</p> <p>227.50 to 230.00 m - more fl, common blebs, bnds up to 5% locly. gdmass is f.g. and fairly homo, trace micro-sul common. from 228.90 to 229.20 m - patchy text. and from 229.00 to 229.50 m - late fl vnlets x-cut.</p> <p>230.00 to 232.25 m - abnt REflc, f.g. in mtx. also abnt w dol clusters, pbls here minor to igr py. late-stage lt ol-gy Carb dykes x-cut locly, up to few cm, aph, uniform.</p> <p>232.75 to 233.10 m - minor vugs, along fracs, py and bio coating.</p> <p>244.40 to 245.45 m - significant dyke cutting along CA, dusky y, aph, mass, rare w dol xtls floating locly. sharp ctcs.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>235.20 to 238.60 m - hetero, patchy to blotchy to mottled, random dol clusters (gregarious pbls) abnt REflc down to 236.60 m, only occasional bnds below. from 237.75 to 238.25 m - f.g. mass dol bnds loclly < 15 cm. from 237.90 to 238.60 m - abnt bio.</p> <p>238.60 to 239.35 m - Carb is v.f.g. not really bnded but not mass. dk gy to mod r.</p> <p>239.50 to 246.70 m - Carb fairly uniform and constantly bnded (fine), loclly REflc and fl bnds. @ 239.57 m - bndg 65° TCA.</p> <p>244.20 to 245.45 m - dominant dk gy bnds, v.f.g. sul. w dol grains scattered loclly, non-euh pbls?. more igr sul (+bio) from 246.70 to 247.80m starts c. with dol grains / pbls and gradually gets much finer grained, homo, trace REflc.</p> <p>246.00 m - bndg 60° TCA.</p> <p>248.35 to 249.45 m - patchy text with homo w dol wrapped by REflc rich Carb or y-gy Carb with bio and sul.</p> <p>249.60 to 250.50 m - y-gy to pale ol mtx, w dol grains (rnd) and diss bio and py clusters.</p> <p>250.50 to 251.60 m - v.f.g. homo, mod r (trace evenly diss REflc throughout).</p> <p>@ 251.85 m - mag and py, each up to 5%, bordered by two y-gy bnds.</p> <p>252.00 to 254.81 m - Carb is lt gy, mass, dol > 98%, no ap. trace REflc, fl blebs loclly, minor sul fracs loclly.</p> <p>254.81 to 260.91 m - fairly consistent text, wkly to mod bnds, mtx y-gy, common sul (gy bnds), w dol clusters at top, increasing REflc moving down. @ 259.75 m - bndg 55° TCA</p> <p>@ 257.40 m - dk gy cc and sul patch, similar infill in frac loclly, minor late fl.</p> <p>@ 260.40 m - 5 cm pale ol late-stage Carb dyke x-cut.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 276.20 | 317.75 | dol-Carb | - | <p>261.05 to 261.60 m - abnt cc, bio, and py frags and pockets. blotchy Carb here with w dol grains (rnd). another lrg patch at 263.05 m.</p> <p>261.75 to 262.15 m - w homo dol, minor frags, no ap.</p> <p>262.15 to 264.00 m - abnt sul, dk gy bnds and clusters, lt gy mtx.</p> <p>264.00 to 271.19 m - fairly consistent REflc in mtx (pk) and diss sul and bnds (med gy) bndg is wk and not consistent.</p> <p>271.19 m to end - mod to str bnded, rare REflc, abnt bio and sul bnds, no dol pbls. @ 272.75 m - bndg 60° TCA.</p> <p><u>dol-Carb</u></p> <p>lt to med gy, pale r, y-gy. v. hetero, commonly brc, locly wkly bnded, blotchy text, perv bio. f.g.</p> <p>modal mineralogy - dol 91%; ap 4%; bio 4%; sul 1%; REflc trace; fl trace.</p> <p>unit starts with increased bio, bnds not uniform as above - abnt patches and stringers of bio and sul, remnant Glim frags. results in wk blocky, bndg, text is consistent down to 286.40 m. minor scattered alb? clst, br-gy, biotized - upon closer look these are qtz pockets with y min floating in it (looks like rt grains but English thinks dol clst...). also v. rare trace REflc here.</p> <p>286.40 to 296.10 m - Carb is ltr gy to pale r, reduced bio and sul and more common REflc, cr bnds locly. less blotchy. minor fl blebs.</p> <p>296.12 to 296.50 m - ibd Glim bnd, > 97% f.g. bio, minor cc mtx, dk gy-blk. sharp ctc with Carb, top one has minor Carb brc fracturing.</p> | | | unit | 250-350 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 317.75 | 368.69 | dol-Carb | - | <p>296.50 to 303.00 m - common bio and sul patches/clusters, minor biotization alb clst mixed with w sub to sub-ang dol grains/clusters. no bio from 299.35 to 300.05 m, pale ol-gy gdmass with fl and REflc blebs, cr dol patch. nor 301.80 to 302.30 m, str bndg - cr dol vs mod r REflc vs p fl vs pale ol bnds.</p> <p>303.25 to 307.40 m - Carb is brcd, v. hetero, random clst, mtx-sup, abnt bio and alb clsts from 303.25 to 304.00 m, cr dol bnds around them. 304.00 to 305.85 m - clst dominantly lt gy to pale gy-y, ang to sub-ang, up to few cm but mostly < 1.5 cm. mtx is lt to med gy, homo, and from 304.40 to 305.85 m v. hard - silicified/ f.g. qtz in mtx. from 305.85 to 307.40 m - brc less evident (well healed?).</p> <p>307.95 to 308.45 m - ibd Glim bnd, similar to prev dk gy to blk, > 97% bio. py diss locly. brc Carb at ctc's up to 5 cm with Carb clst floating in Glim (ang) - Glim intruding Carb.</p> <p>308.50 to 309.68 m - abnt bio frags/strings.</p> <p>309.68 m to end - Carb fairly homo, lt to med gy, trace REflc (hardly noticeable), common bio strings (overall 1%). minor brc bnds/patches locly, also a few med gy micro-sul bnds locly, ~ 2 cm each.</p> <p>sharp lower ctc, bio stops, micro-sul bnds at end.</p> <p><u>ap dol-Carb</u></p> <p>lt gy to med gy to y-gy, pale mod r. patchy to brc, locly wk to mod bndg, hetero f.g.</p> <p>modal mineralogy - dol 93%; ap 7%; REflc trace; fl trace; sul trace.</p> <p>this unit differentiated from previous by lack of bio, increased REflc and ap. ap throughout commonly 8% and locly up to 15%, blebs and bnds.</p> | | | unit | 280-380 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>317.75 to 328.90 m - dominantly brc to psd-brc text, w to lt gy to y-gy dol grains/clst, typically y-gy to pale ol mtx. common med gy frags - micro-sul. between brc, sections Carb is wk lt bnded and patchy. rare REflc, diss grains trace. sharp text changes common here, locally demarcated but not always (by gy-frags).</p> <p>@ (below) 329 m - REflc slightly increased, pale to mod r bnds, still trace and not continuous.</p> <p>331.50 to 334.20 m - lt to med gy dol - only patches/bnds, foggy text, interrupted by REflc bnds locally.</p> <p>334.40 to 341.40 m - lt to y-gy gdmass with occasional med gy sul bnds/patches. rare REflc bnds. bndg getting str to wk to mod common from 355.00 to 342 m. @ 339.00 m - bndg 30° TCA.</p> <p>341.40 m to end - REflc is common, blebs and bnds, locally mod r gdmass (f.g. REflc in mtx) locally up to few % but mostly < 1%. @ 344.30 m - 20 cm dk gy micro-sul bnd.</p> <p>346.20 to 347.45 m - Carb dominantly w to lt gy, w dol pbls and clusters locally occasional dk gy sul bnds.</p> <p>347.45 to 365.60 m - wk to mod bndg, REflc blebs form bnds, minor gy sul bnds.</p> <p>347.45 to 366.40 m - gdmass dominantly y-gy. rare late-stage Carb dykes x-cut, dusk y, no sharp ctcs with Carb. minor brc zones/bnds, < 10 cm, especially at 348.60 to 349.30 m.</p> <p>360.90 to 362.25 m and 364.10 to 366.40 m - Carb is more blotchy, lter gy bndg consistent but less uniform.</p> <p>362.25 to 364.40 m - patchy to brc, dk due to increased REflc, gdmass y-gy, minor dk gy sul patches.</p> <p>366.40 m to end - Carb is patchy to brc and much dkr - similar to 362.25 to 364.10 m but all colours dkr, brc is str.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 368.69 | 381.97 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>dominantly y-gy, locly med b-gy. patchy text, locly mass. common fl patches. f.g.</p> <p>modal mineralogy - dol (carbonates) 97%; ap 1%; fl 1%; mnz trace; sul 1%; qtz trace.</p> <p>unit more homo than previous, no bndg, REflc stops above etc, common fl below but are ap. qtz vns x-cut locly, < 1 cm.</p> <p>consistent patchy text throughout, locly mottled (especially 369.00 to 371.90 m).</p> <p>dkr gy patches and bnds locly (especially 374.10 to 376.10 m) have increased sul +?. sul throughout, v.f.g. in mtz, typically trace.</p> <p>fl common as f. blebs and occasional dk patches, up to few % locly (most abnt from 370.50 to 371.90 m). @ 371.90 m - dk p-br fl mnz? patch.</p> <p>gradational lower etc - increased CPS, dkr gdmass reduced fl.</p> | | | unit | 390-450 |
| 381.97 | 450.31 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>med b-gy, locly y-gy to pale ol. unit is homo, mass to patchy text, faint brc text common likely overprinted. f.g. to v.f.g.</p> <p>modal mineralogy - dol 96%; fl trace; qtz 2%; sul (py) 1%; mnz 1%; mag trace; arf trace.</p> <p>fl blebs, patches minor from start down to 406.50 m, locly up to 5%. below this fl is rare mnz mixed in with fl (→ dk p and pale r-p) but also diss on its own up to 5% locly, br to og-br, v.f.g. throughout. Carb is patchy and streaky (emphasized by fl patches and blebs) down to 405.00 m, locly brc. for entire unit f.g. pale ol to med b-gy gdmass dominates, likely overprinting everything resulting in mass to patchy text and faint/subdued brc zones.</p> | | | 381.97-385.50 | 450-600 |
| | | | | | | | 385-414 | 600-800 |
| | | | | | | | 414-438.5 | 800-1050 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>385.20 to 388.75 m - abnt vugs, fracs and broken core, qtz, py and lim coatings. euh qtz xtls up to 1 cm locly. also minor brc bnds/zones with qtz breaking up Carb, ang clsts not moved far.</p> <p>qtz also f.g. in mtx locly, not visible but core much harder.</p> <p>393.00 to 396 m - mottled to psd-brc common with lt gy to cr dol clsts/grain, sub-rnd, fl igr locly, bio dykes x-cut locly, y-gy to pale ol.</p> <p>@ 396.10 m - with dol patch, ellipsoidal ~ 10 cm, minor grain amph at edges.</p> <p>396.50 to 398.00 m - mostly brcd (but faint to due to overprinting), clst-sup, ang Carb clsts, mtx similar. qtz and fl vnlets commonly cutting through.</p> <p>398.00 to 405.00 m - text more hetero with common brc zones and fl streaks. abnt y-gr to pale gr-y dykes x-cut. from 401.50 to 402.50 m - all < 2 cm.</p> <p>405.00 m to end - text is v. homo, patchy to mass to brcd, all overprinted. colours stay consistent.</p> <p>rare mag clusters/fracs.</p> <p>minor dk gy patches are typically sul (py) and minor amph, mnz. sul also diss throughout Carb v.f.g. and tiny fracs/vnlets locly.</p> <p>414.25 to 414.65 m - ibd Glim, sharp ctcs with abnt py to po (up to 30% for up to 10 cm). Glim is dk, f.g. > 98% bio with f.g. diss py. small bio strings penetrating Carb bellow Glim for 30 cm.</p> <p>@ 414.19 m - dk gy qtz pockets abnt.</p> <p>415.50 to 427 m - y-gy bnds and patches v. common.</p> <p>424.95 to 425.25 m - couple 'fresh' brc bnds with og Carb clsts (same as surrounding Carb) with dk gy mtx of py, arf, qtz, and mnz.</p> | | | 438.50-450.31 | 650-900 |
| | | | | | | | 414.35 | 1000 |
| | | | | | | | 425.00 | 1150 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|----------|
| | | | | | | | DEPTH (m) | CPS |
| 450.31 | 495.43 | dol-Carb | - | <p>423.00 to 427.20 m - arf mnz bnds and py pockets. dk gr to br to brassy.</p> <p>427.20 to 431.00 m - common fl blebs, mnz also diss up to few % here.</p> <p>434.00 to 434.75 m - abnt dol gr srp? clusters/patches, minor py and qtz in and around.</p> <p>435.00 m to end - Carb is commonly harder, increased qtz in mtx. str brc/patchy text, also increased py clusters, diss amph and mnz?.</p> <p><u>dol-Carb (M zone?)</u></p> <p>mod gy to med b-gy, pale gr-y to y-gy clst. str brc text, mostly mtx-sup, mtx mass to peppered. f. to v.f..g.</p> <p>modal mineralogy - dol 95%; ap 2%; mag 1%; qtz 1%; fl trace, py 1%, arf trace; mnz trace.</p> <p>CPS typically higher in mtx dominant sections, reduced with abnt lt dol clst.</p> <p>mag brc bnd at start of unit, > 4 cm wide and continues for 35 cm, sharp ctcs with Carb, clst similar to surrounding Carb, ang mag up to few %, and py. mag common throughout unit, mostly frags, locly patches and in mtx, py and po locly up to 5%. unit defined by str brc text and pale gr-y to y-gy clsts. hereto distribution, commonly up to few cm, sub ang. mostly dol but some ap too (typically brighter w).</p> <p>top to 451.75 m - Carb is brc but only minor lt clst, mostly med gy with dk frags py, fl patches locly.</p> <p>452.25 to 456.00 m and 460.80 to 464.10 m - brc mostly clst-sup with reduced mtx but common frac, no bnds to demarcate stars and ends but increase/decrease in clsts ls fairly sudden.</p> | | | 450.31-483 | 600-850 |
| | | | | | | | 483-495.43 | 800-1000 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|----------|--------|-----------|------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>456.00 to 460.80 m and below 464.10 m - Carb is dominantly med gy mtx, clst wider spaced and typically smaller. more mass here, but still common frags (mag, sul) and fl blebs/patches locly.</p> <p>@ 469.85 m - mag up to 7% here.</p> <p>471.90 to 473.65 and 476.85 to 481.10 m - clst ~ 10-30% of volume of brc, all <1.5 cm.</p> <p>482.00 m to end - mag increased, common frags and diss (especially from 485.98 to 487.02 m, commonly up to 10% and py and po).</p> <p>481.10 to 492.00 m - clst reduced, but locly clst up to 4 cm. bnds, brc dykes x-cut locly.</p> <p>492.00 m to end - abnt y-gy clst, hetero.</p> | | | 469.85 | 930 |
| 495.43 | 515.97 | dol-Carb | - | <p><u>mag dol-Carb (M-zone?)</u></p> <p>med gy, dk gy sections locly. patchy to brc text. abnt mag and py diss and frags. f.g. to v.f.g. mtx, mag and py and clst f.g. to m.g.</p> <p>modal mineralogy - dol 89%; mag 5%; py 4%; ap 1%; mnz trace; qtz 1%. ilm?</p> <p>abnt mag for most of unit. at start sharp increase over previous unit.</p> <p>495.61 to 498.40 m - Carb is dk gy to blk, pbcl/prtc with diss mag xtls up to few mm and 15-25%, reduced from 497.40 to 497.85 m. py xtls up to few mm and 15% locly gdmass f.g. gy, mass to patchy. other sul diss, dk gy up to few %. minor lt gy clst up to 1.5 cm, sub-ang.</p> <p>498.40 to 500.60 m - Carb is med gy, fairly homo, mass to patchy. common to abnt frags and patches with mag, sul up to few cm. minor lt gy clst.</p> | | | unit | 650-900 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 515.45 | 543.85 | dol-Carb | - | <p>500.60 to 503.20 m - brc text dominates, lt gy dol-Carb up to 1 cm common, and minor dk gy to br qtz-rich clst. common frags - mag and sul.</p> <p>503.20 to 510.65 m - Carb fairly homo, mass to patchy. minor brc zones locly. dk gy patches locly (especially 505.30 to 506.50 m), si-rich (alb clst) with bio rims, common py, no mag but there is mag diss at 506.10 m (no si patches).</p> <p>503.20 to 513.50 m - f.g. diss amph (arf) locly, dk b, up to few %, locly with py, mag, mnz?. also diss mnz locly, br.</p> <p>498.40 to 513.37 m - reduced mag, mostly small frags and patches, diss xtls locly up to 10% (rare). almost always with py.</p> <p>510.65 to 513.37 - Carb more hetero. lt to med gy patchy to mottled with abnt frags (mag, sul) common dk grey patches with qtz centres and abnt sul (up to 25% py locly). minor mnz patches? mod pk to pale r, associated with dk gy patches. from 511.50 to 512 m - w to lt gy dol clusters grains abnt, pbls?/psd-brc?.</p> <p>513.37 m to end - increased mag (5-20%) and py (up to 15%). Carb is med to dk gy, hetero, patchy, lt gy dol clst scattered. mag < few % for last 50 cm.</p> <p>514.45 to 514.75 m - dk gy, f.g. mass mag xtls not visible but probably > 10% (strly magnetic) plus sul (reduced dol) ilm?.</p> | | | 514.25 | 950 |
| | | | | <p><u>dol-Carb</u></p> <p>med to lt gy to med b-gy. mass to patchy text, common psd-brc/pblc?? sections. f.g.</p> <p>modal mineralogy - dol 95%; py, sul 3%; mnz 1%; mag trace; bio trace; qtz 1%; ilm? trace; arf trace.</p> <p>after ctc, mag rare (trace), no vnlets/frags/patches. first 50 cm is patchy, not as homo as below, dk gy bnds have increased micro-sul. lt gy dol patches/clst locly. minor igr dol waves around dol patches. mnz throughout unit up to 2% locly, as above and small clusters locly, og-br, f.g.</p> | | | unit | 600-800 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>516.50 to 528.62 m - Carb fairly homo, mass to patchy, lt to med gy. arf diss loclly up to 2%, gr to b. common qtz vns from 517.20 to 218.60 m and 524.00 to 526.50 m, dk gy, up to 1 cm wide, py and other sul within.</p> <p>519.60 to 522.00 m - abnt mnz, loclly up to few %, r-br. common arf diss here, rare fracs, sul patches. commonly 2-3% TREE on XRF.</p> <p>522.00 to 528.62 m - common sul fracs, mostly py but po and others too. increased from 523.95 to 524.40 m, common patches.</p> <p>528.62 to 530.62 m - psd-brc/pblc txt, abnt w dol clst up to few mm, sub-ang to sub-rnd, not much mtx. dk gy to blk clusters scattered, similar size, bio/srp?.</p> <p>530.62 m to end - mixed psd-brc/pblc sections (as above, significant 532.15 to 533.80 m and 539.15 to 541.85 m, lt gy to w dol grains/clusters are lrg, commonly > 1cm) vs patchy to mass gdmass sections. bnds x-cut loclly from 527.25 m to end - late-stage Carb dykes, pale y-br to y-gy abnt from 530.10 to 530.45 and 535.85 to 536.65 m.</p> <p>rare mag vnlets, other sul and mag patches.</p> <p>541.20 to 543.25 m - abnt f. sul fracs/vnlets, commonly up to 5%, py dominant.</p> <p>543.00 m to end - increased mnz clusters, up to few % loclly. also blk patches, sul/oxides? pretty hard.</p> <p>lower ctc has noticeable textural change, fracs and brc stop at ctc. mnz clusters seem consistent on both sides.</p> | | | 531.60 | 870 |
| 543.85 | 576.62 | dol-Carb | - | <p><u>dol-Carb</u></p> <p>lt to med gy to med b-gy, y-gy to pale gr-y patches. homo, mass to faint mottled text. f.g. to v.f.g.</p> | | | unit | 450-600 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>modal mineralogy - dol 96%; ap 1%; mnz/REflc? 1%; qtz 1%; arf 1%; sul trace.</p> <p>this unit far more homo, mass than perv, sul may reduced, rare frags.</p> <p>543.85 to 547.55 m - Carb is wkly bnded/smeared, sul here most abnt of unit (up to 2%), small frags/vnlets. also v.f.g. amph? b patches.</p> <p>547.50 to 551.40 m - psd-brc text; clst not easily distinguished from mtx, sub-ang, common diss mnz/REflc? in mtx, up to few % locly.</p> <p>common qtz vns x-cut throughout, avg < 1cm but locly up to 2 cm wide.</p> <p>551.40 to 555.65 m - Carb v. homo, mass, med gy to b. v.f.g. diss arf?. minor mnz/REflc grains diss locly, and py locly up to 2%.</p> <p>555.65 to 556.50 m - gdmass similar to above but y to pale og patches common with ap typically ~ 10%. also increase qtz vnlets.</p> <p>556.50 to 565.30 m - homo mass b gdmass with common pale gr-y to y-gy patches, bnds, clusters etc... minor py, arf clusters locly.</p> <p>559.00 to 561.25 m - increased py ± mnz diss, and mnz 564.50 to 571.00 m.</p> <p>562.00 to 565.25 m - common late-stage dykes x-cut, y-gy to pale y-br, layered/smeared.</p> <p>565.30 m to end - common ap blebs and patches, 10% locly, y to v. pale og.</p> <p>569.00 m to end - increased arf diss locly up to few %, b-gr.</p> <p>573.00 to 573.50 m - abnt frags and vnlets, sul and arf.</p> <p>573.00 to 575.50 m - psd-brc to patchy text, pale gr-y dol patches/clusters common. dol xtls locly m.g. to c.g.</p> | | | 570.80 | 780 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 576.62 | 647.80 | dol-Carb | B | <p>575.00 to 575.75 m - abnt qtz and mnz vnlets.</p> <p>575.50 m to end - Carb v. homo.</p> <p><u>dol-Carb</u></p> <p>pale ol to med b-gy, y-gy. mottled text, fairly homo, common fl blebs/patches. f.g. to v.f.g.</p> <p>modal mineralogy - dol 96%; fl 2%; mnz 1%; arf trace; py, sul trace; ap trace; qtz trace; REflc?.</p> <p>unit starts with intro of fl, patches ap to few cm, up to 15% locly. commonly with mnz. fl patches not perv but fairly common. Carb lighter than previous unit, y-gy clusters/patches with slightly dk gdmass. gdmass is v.f.g. of faintly mottled. mnz perv, f.g. pale br to og-br commonly with fl patches, diss clusters (up to few % locly), and in fracs/vnlets with arf, py and or qtz.</p> <p>578.30 to 583.70 m - abnt py, arf and mnz fracs/vnlets, less common below more spaced out. arf is typically dk gr, acicular, up to few % locly, xtls < 1mm.</p> <p>583.70 to 604.50 m - v. abnt fl and mnz patches, fl > mnz but both few % locly.</p> <p>588.00 to 589.60 m - common pale y-br clusters/patches/gdmass, v.f.g. mnz increased diss here.</p> <p>@ 591.00 m - fl? 3 cm bnd of f.g. srp?, looks wthd/gougy, sharp ctcs with Carb.</p> <p>592.20 to 595.00 m - more increased mnz clusters.</p> <p>w cr dol grains/clusters randomly scattered throughout.</p> | | | 576.62-604.50 | 500-680 |
| | | | | | | | 604.5-647.8 | 330-450 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>604.75 m to end - Carb most homo, consistent text. fl patches more sparse, y-gy pale ol to med b-gy. qtz vns x-cut Carb throughout, up to 2 cm, typically all qtz but locly with mnz, REflc? f.g. qtz in mtx locly? It gy and slightly harder Carb sections, patches.</p> <p>below 605.50 m - gdmass is dominant but f.g. mineralization is typical diss locly, pale y-br to gy-y, mnz, rt?, locly up to few %.</p> <p>618.00 to 646.00 m - wkly bnded, Carb retains faint mottled text, still homo. gr-gy bnds/strings typically py (other sul?) ± amph locly.</p> <p>625.50 to 629.00 m - increased qtz, abnt vnlets and in mtx.</p> <p>rare ap blebs/bnds locly, up to few %.</p> <p>631.75 to 635.00 m - Carb more y-gy to y, fl blebs/bnds slightly increased here.</p> <p>635.00 to 636.00 m - pale y-br f.g. patches, mnz? rare fl. not really bnded here and down to 637.00 m, increased y-gy to cr patches with mottled text.</p> <p>636.85 to 639.80 m - fl blebs/bnds, still minor (rare up to 2%, widely spaced).</p> <p>below 637.00 m - better bndg.</p> <p>640.00 to 640.55 m - good mineralization , all f.g. evenly diss grains, mnz and amph mostly, up to 2%.</p> <p>640.65 to 645.65 m - f. med gy bnds, are v.f.g. qtz mixed with dol, up to 5%.</p> <p>643.00 m to end - common gy-y to cr clusters and pale y-br patches and blebs (mnz) slightly increased ap here.</p> <p>645.00 to 645.40 m - abnt fl mnz blebs, up to 7%.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 647.80 | 664.36 | dol-Carb | B | <p>647.10 m to end - common gr frags, clusters, amph and py. fl and mnz also common.</p> <p>gradual lower ctc.</p> <p><u>dol-Carb</u></p> <p>gy-y to y-gy to pale p; gr-r to br bnds and blebs perv (mnz). mottled text. f.g. to v.f.g.</p> <p>modal mineralogy - dol 97%; mnz 2%; REflc trace; fl trace; py trace; qtz 1%.</p> <p>unit has abnt perv RE mins mnz and REflc?, gy-r to br, patches, blebs, bnds. XRF gives > 25% TREE throughout. str mottled texture, gy-y blotches/clusters throughout with y-gy to pale ol gdmass. minor fl blebs.</p> <p>@ 650.55 m - 8 cm c.g. sid? vn, mod y; minor qtz, bio, and sul.</p> <p>656.00 to 656.75 m - abnt gy-y to mod y bnds/dykes x-cut, ± py, REflc, fl and gr amph clusters at ctc with Carb locly.</p> <p>It gy dol bnds locly (especially 660.85 to 661.60 m), demineralized, sharp ctcs with mnz Carb, difficult to say which was later although likely the dol bnds (and qtz locly).</p> <p>minor trace gr amph diss locly, trace.</p> <p>py frags/vnlets locly, (especially 658.90 to 659.55 m → Carb is med gy mass, only minor diss REflc.) up to 2%.</p> <p>abnt fl blebs from 660.20 to 660.60 m (minor, Carb has similar text and f.g. mnz patches) and 661.90 to 662.35 m (fl up to 5%, mnz/REflc is coarser grain/clusters.)</p> | | | unit | 350-450 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|--|-----------|--------------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 664.36 | 727.65 | dol-Carb | - | <p>662.73 to 663.63 m - Carb is med gy, mass with minor sul fracs, blebs, no mineralization , fairly sharp text switch with mnz Carb above and below. mottled Carb with y patches, mnz and fl blebs from 663.63 m to end.</p> <p>lower ctc at end of perv mnz.</p> <p><u>dol-Carb</u></p> <p>lt gy to cr, med gy, y-gy/gy-y/pale gr-y. hetero text, dominantly mottled, locly wkly bnded v.f.g. to f.g.</p> <p>modal mineralogy - dol 96%; py 1%; amph (gr and p) 1%; fl trace; oxides (Nb-ilm, Nb-rt) trace; sul (gln, sph, po) trace; tlc, chl 1%; mnz, REflc trace; qtz 1%.</p> <p>fairly sharp text change at top ctc from previous unit, Carb is lt gy, mass to patchy therefore dol infiltrating and overprinting here?. also late dol bnds and qtz pockets, up to 10 cm. minor diss sul, mnz/REflc?. below 665.30 m, Carb is slightly dkr (lt to med gy).</p> <p>665.60 to 667.75 m - brc text locly, lt gy to cr dol grains clst scattered locly. common diss REflc/mnz and py and along fracs.</p> <p>667.75 to 672.10 m - core similar to previous unit with faint mottled text, common gy-r to br patches, minor gy-y clusters. also f.g. diss REflc.</p> <p>@ 671.10 m - 18 cm oxide vn, m.g. to c.g. blk met min (Nb-ilm, Nb-rt, other?), Ti and Nb abnt.</p> <p>@ 672.75 m - 17 cm sid? vn, c.g. mod y, few % f.g. igr sul. @ 693.00 m - another similar vn, 40 cm long with m.g. to c.g. gln xtls locly, and common m.g. to c.g. qtz diss (10%), igr bio patches (10%).</p> <p>672.10 to 676.40 m - Carb lt to med gy, patchy to mass and commonly wkly bnded. common py bnds, minor mnz/REflc blebs, vnlets dk gr chl? patches, fracs from 673.50 to 674.00 m.</p> | | | 664.36-698 | 265-320 |
| | | | | | | 698-711.5 | 320-500 | |
| | | | | | | 711.5-727.65 | 200-300 | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | <p>below 676.40 m - Carb defined by perv hydrothermal vnlets, fracs, patches - variable mineralogy included, tlc, chl, amph (gr and p), py. mottled text dominantly, locky wkly bnded.</p> <p>681.12 to 683.62 m - mass to foggy text, rare accessory mins - mostly dol (and qtz?).</p> <p>676.40 to 685.00 m - gdmass is mostly lt gy, minor pale ol patches, fairly homo. from 685 to 687.25 m - gdmass is cr to pale gr-y, then from 687.25 to 694.30 m switches to pale gr-y to gy-y and gdmass is mottled, increased gr blebs/patches (chl, tlc, amph? soft), fairly homo.</p> <p>@ 692.88 m - med gy to pale ol late-stage Carb dyke? (12 cm), f.g. mass, qtz vnlets within this. arms branching away into Carb.</p> <p>694.30 to 705.15 m - Carb more hetero, reduced fracs vnlets/blebs, lt gy to pale ol to y-gy mottled text, locky wkly bnded. 700.00 to 702.80 m - patchy to brod, only mineralization is rare fl REflc blebs, with amph tlc chl? fracs/patches starting to increase below 702.00 m.</p> <p>702.80 to 703.80 m - fl REflc blebs/bnds fairly abnt.</p> <p>703.80 to 705.00 m - pale ol bnds (overprinting y mottled Carb? finer grained, mass. with minor diss br REflc mnz, gr py and chl? fracs) vs y-gy bnds (with common gy-r to br mnz? patches and gr to p hydrothermal vnlets locky) transition from hetero deminized Carb above to hydrothermal Carb below.</p> <p>707.15 to 725.00 m - Carb is str mottled with abnt hydrothermal vnlets and patches again, lt gy to pale gr-y to gy-y. hydrothermal mineralization included b-gr and p sharp needles amph?, tlc, chl?, py, mnz/REflc? (trace).</p> <p>708.75 to 710.55 m - gy to pale ol bnds crossing Carb, sharpish ctcs, f.g. mass with minor sul and common cr dol clst/grains, up to 1 cm, also mod y to y-gy carbonate clst (sid?) b to gr amph here.</p> <p>721.80 to 723.00 m - abnt py fracs/vnlets, and bio dk br to brassy.</p> <p>725.50 m to end - common qtz patches, < 1 cm, locky with py, mnz/REflc.</p> | | | | |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|---------|
| | | | | | | | DEPTH (m) | CPS |
| 727.65 | 757.73 | dol-Carb | - | <p>725.00 m to end - reduced hydrothermal mineralization, Carb is dkr and not as mottled, common py frags, and bio.</p> <p><u>dol-Carb</u></p> <p>lt to med gy. mass to blotchy, wkly bnded. perv bio and sul strings and blebs. f.g. to m.g.</p> <p>modal mineralogy - dol 94%; bio 1%; qtz 3%; sul 2%; REflc trace.</p> <p>unit starts with end of mottled text and into of consistent/perv bio and sul blebs and frags/vnlets/string.</p> <p>Carb is v. homo down to 739.65 m, mass gdmass with w dol grains scattered (pblc?), up to few mm, sub-rnd. dominantly lt gy but slight y-gy tinge common. py and bio locly up to 5%, mostly ~ 1%. rare REflc grains diss, up to few % at 739.35 m.</p> <p>739.35 m to end - more hetero. abnt qtz pockets and vns up to 2 cm and minor mtx f.g. dk gy bnds and patches). Carb is more blotchy (brcd?). increase bio and sul strings, commonly few %.</p> <p>748.59 to 749.30 m - more homo, no bio but b to gy qtz and sul bnds still abnt.</p> <p>750.00 to 752.00 m - almost continuous qtz vn along CA. up to 2 cm wide, with amph (hbl?) and bio? locly, gr-blk.</p> <p>752.30 to 755.75 m - common bio patches, bnds, up to few cm. common w to pk qtz pockets nearby.</p> <p>755.75 to 756.55 m - ibd Glim, dk br, str fol, f.g., bio > 95% with minor cc mtx.</p> <p>756.55 to 757.10 m - gdmass is med gy to gr-gy, f.g. mtx - late stage overprinting? ~ 2% TREE on XRF. f.g. diss py and w to cr dol grams.</p> | | | unit | 180-220 |

| FROM (m) | TO (m) | ROCK TYPE | PROVISIONAL ZONE | DESCRIPTION | STRUCTURE | TEXTURE | RADIOACTIVITY | |
|-------------|-----------|-----------|---------------------|---|-----------|---------|---------------|-----|
| | | | | | | | DEPTH (m) | CPS |
| | | | | 757.10 m to end - lt gy gdmass with w dol clusters/bnds. abnt diss REflc, up to few locly (heading into the BD zone?). E.O.H | | | | |

Common Eldor Abbreviations

| Abrv. | Rock Type | | | | |
|--------------|----------------------|--------------|-------------------------|---------------|--------------------------------|
| cc-Carb | calcite Carbonatite | pbls | porphyroblasts | FZ | fault zone |
| dol-Carb | dolomite Carbonatite | xtl/xtls | crystal/crystals | SZ | shear zone |
| si-Carb | silico-Carbonatite | Abrv. | Quantity | transition | trans |
| Carb | Carbonatite | rare | rare | Abrv. | Texture |
| Glim | Glimmerite | few | few | aph | aphanitic |
| WR | Wallrock | trace | trace | bleb/bleby | bleb/bleby |
| Ovb | Overburden | sparse | sparse | bnd/bnds | band/bands |
| Abrv. | Minerals | minor | minor | bnded/bndg | banded/banding |
| amph | amphibole | mod | moderate | brc/brcd | breccia/brecciated |
| ap | apatite | abnt | abundant | brcg/brcn | brecciating/brecciation |
| bsn | bastnaesite | Abrv. | Grain Size/Shape | clst-sup | clast supported |
| bio | biotite | xtln | crystalline | ctsc | cataclastic |
| cc | calcite | v.f.g. | very fine grained | x-bd | cross-bedded |
| chl | chlorite | f.g. | fine grained | x-cut | cross-cut/cutting |
| chp | chalcopyrite | m.g. | medium grained | dfmd/dfmn | deformed/deformation |
| dol | dolomite | c.g. | coarse grained | diss | disseminated |
| eld | eldorite | v.c.g. | very coarse grained | eqgr | equigranular |
| epd | epidote | euh | euhedral | flow bndg | flow banding |
| fl | fluorite | suh | subhedral | fol | foliated/foiliation/foiliating |
| flc | fluorocarbonate | anh | anhedral | grblc | granoblastic |
| fsp | feldspar | ang | angular (sub-) | gdmass | groundmass |
| gal | galena | rnd | rounded (sub-) | hetero | heterogeneous |
| hem | hematite | Abrv. | Colour | homo | homogeneous |
| lim | limonite | b | blue | hydrothermal | hydrothermal |
| mag | magnetite | bg | beige | ibd | interbedded |
| micro-sul | microsulphide | blk | black | igr | intergranular |
| min | mineral | br | brown | itsl | interstitial |
| mnz | monazite | brk | brick | lam | laminated |
| msc | muscovite | cr | cream | mtx | matrix |
| phl | phlogopite | gr | green | mtx-sup | matrix supported |
| prs | parisite | gy | grey | mass | massive |
| py | pyrite | og | orange | mottled | mottled |
| pych | pyrochlore | ol | olive | patchy | patchy |
| po | pyrrhotite | p | purple | perv | pervasive |
| qtz | quartz | pk | pink | pkb | poikiloblastic |
| REflc | RE-fluorocarbonate | r | red | prtc | porphyritic |
| rt | rutile | w | white | pblsc | porphyroblastic |
| ser | sericite | y | yellow | psd-brc | pseudo-breccia |
| srp | serpentine | lt | light | rxtd | recrystallized |
| sph | sphalerite | dk | dark | shr/shrd | shear/sheared |
| sul | sulfides | dkr | darker | Abrv. | Modifiers |
| tlc | talc | med | medium | wk/wkly | weak/weakly |
| tnl | taeniolite | lt | light | mod | moderate |
| ukn | unknown | ltr | lighter | str | strong |
| xnt | xenotime | Abrv. | Other | v. | very |
| Abrv. | Features | ctc | contact | ir# | irregular |
| vn/vnlet | vein/veinlet | jn | joint | +ve | positive |
| clst | clast | flt | fault | text | texture |
| dyke | dyke | wthd | weathered | wthd | weathered |
| frac/fracd | fracture/fractured | RA | radioactivity | locl/locly | local/locally |
| frag | fragment | STD | standard | rxn | reaction |
| pheno | phenocryst | DUP | duplicate | litho | lithology |
| | | CA/TCA | core axis/to core axis | alt/altd/altn | alter/altered/alteration |
| | | BZ | broken zone | avg | average |

| Munsell Color | Abrv | Code(s) |
|------------------------|-----------|--------------------|
| black | blk | N1 |
| grayish black | gy-blk | N2 |
| dark gray | dk gy | N3 |
| medium dark gray | med dk gy | N4 |
| medium gray | med gy | N5 |
| medium light gray | med lt gy | N6 |
| light gray | lt gy | N7 |
| very light gray | v lt gy | N8 |
| olive gray | ol-gy | 5Y 4/1 5Y 3/2 |
| light olive gray | lt ol-gy | 5Y 6/1 5Y 5/2 |
| pale olive | pale ol | 10Y 6/2 |
| light olive | lt ol | 10Y 5/4 |
| grayish olive | gy-ol | 10Y 4/2 |
| light olive brown | lt ol-br | 5Y 5/6 |
| moderate olive brown | mod ol-br | 5Y 4/4 |
| light greenish gray | lt gr-gy | 5G 8/1 5GY 8/1 |
| grayish green | gy-gr | 10GY 5/2 |
| greenish gray | gr-gy | 5G 6/1 5GY 6/1 |
| brownish gray | br-gy | 5YR 4/1 |
| yellowish gray | y-gy | 5Y 8/1 5Y 7/2 |
| grayish yellow | gy-y | 5Y 8/4 |
| moderate yellow | mod y | 5Y 7/6 |
| dusky yellow | dusky y | 5Y 6/4 |
| light brown | lt br | 5YR 6/4 5YR 5/6 |
| pale reddish brown | pale r-br | 10R 5/4 |
| moderate reddish brown | mod r-br | 10R 4/6 |
| dark reddish brown | dk r-br | 10R 3/4 |
| moderate red | mod r | 5R 5/4 5R 4/6 |
| grayish red | gy-r | 10R 4/2 5R 4/2 |
| medium bluish gray | med b-gy | 5B 5/1 |

| Abrv. | Lustre |
|--------|--------------------------------|
| | adamantine (like a diamond) |
| | dull (no lustre) |
| | greasy (like fat or grease) |
| met | metallic (like polished metal) |
| | pearly |
| | resinous/earthy |
| | silky |
| submet | submetallic |
| | vitreous (like glass) |
| | waxy |

| Abrv. | Alteration Type |
|----------|-------------------|
| adv argc | advanced argillic |
| alb | albite |
| argc | argillic |
| btzn | biotization |
| cc | calcite |
| chl | chlorite |
| di | diopside |
| dol | dolomite |
| epd | epidote |
| grp | graphite |
| lim | limonite |
| ox | oxide |
| ptsc | potassic |
| prlc | propylitic |
| ser | sericite |
| srp | serpentine |
| si | silica |
| tlc | talc |
| zeo | zeolite |

| Abrv. | Alteration Style |
|----------|------------------|
| perv | pervasive |
| locl | localized |
| bnded | banded |
| frac-rel | fracture-related |
| ctc-rel | contact-related |

| Abrv. | Mineralization |
|-------|--------------------|
| bdl | baddeleyite |
| bsn | bastnaesite |
| clb | columbite |
| fl | fluorite |
| gal | galena |
| hem | hematite |
| mol | molybdenite |
| mnz | monazite |
| prs | parisite |
| pych | pyrochlore |
| REflc | RE-fluorocarbonate |
| sph | sphalerite |
| sul | sulfides (various) |

| Crystal Habit |
|--------------------|
| acicular |
| bladed |
| botryoidal |
| columnar |
| equant |
| reniform/colloform |
| twinned |