



True North Nickel

2016 Exploration program and compilation of historical data

Qiqavik property

Nunavik, Quebec Canada

(NTS 35G11, 35G12 & 35G05)

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Prepared by:
Michelle Sciortino, P. Geo,
APGO# 2155
OGQ Temporary permit # 1515
Royal Nickel Corp.

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1- SUMMARY

The Qiqavik property is located in the northernmost part of Nunavik, northern Quebec, approximately 70 kilometres south of the Northern Village of Salluit. The Exploration team was based at camp Chukotat, located approximately 32 kilometres southwest of the Qiqavik property, in the True North Nickel 100% owned West Raglan property. The team accessed the project by helicopter from camp Chukotat on a daily basis.

The Qiqavik property comprises 614 contiguous map designated mineral titles covering an area of 24,832 hectares (248 km²) distributed in one main block. Five hundred and sixteen (516) claims of the Qiqavik property are 100% held by True North Nickel. Ninety-three (93) mineral titles are 100% held by Les Ressources Tectonic, and True North Nickel entered into an exclusive option to acquire 100% undivided legal and beneficial interest in these 93 mineral titles. Five (5) mineral titles are 100% collectively held by Wayne Holmstead and Geotest Corp, and True North Nickel entered into an exclusive option to acquire 100% undivided legal and beneficial interest in these 5 mineral titles.

The Qiqavik property sits in the volcano-sedimentary Parent Group of the Cape Smith Belt dominated by basalts and basaltic to andesitic pyroclastics interlayered with thin clastic sediment bands. Few mafic to ultramafic sills as well as dioritic to tonalitic post-tectonic intrusives intrude the volcano-sedimentary package.

The Qiqavik project is an early stage gold exploration project and only limited work has been completed to date on the property. In 2016, True North Nickel completed exploration programs including ground magnetic and IP surveys, mapping, till and surface rock sampling and 550 metres drilled in 6 holes. This work led to the discovery of over 5 gold mineralized occurrences along a 40 kilometre trend.

The Esperance occurrence consists of Au +/- Ag +/- Cu mineralization traced for over 500 metres at surface in a shear zone hosting disseminated to massive sulphides in mafic volcanoclastics and sediments. Abundant surface rock samples collected from boulders and sub-crop assayed between 2.50 and 31.90 g/t Au. This mineralization is coincident with a chargeability anomaly extending over 1.2 kilometres, and with a multi-element till anomaly (As, Bi, Sb and W).

The Aurora occurrence consists of Au-Ag mineralization associated with less than 1% sulphides in quartz veins hosted in a fine-grained granite. Abundant surface rock samples collected over 200 metres reported between 5.22 and 189 g/t Au. The host granite is traced over 600 metres at surface. The Aurora mineralization is coincident with gold anomalies in till samples. However, the till anomaly extends over 2 kilometres to the west which may suggest the Aurora zone may continue to the west. Till samples collected above Kovik intrusives to the south west of Aurora also reported anomalous Au values in till up to 0.4 g/t Au.

The Central Qiqavik occurrence consists of a set of boulders with Au mineralization in mineralized quartz veinlets hosted in sheared and silicified granodiorite. Assays from boulders returned between 0.87 and 18.30 g/t Au. Boulders sit at the south-western limit of a broad As-Au-Sb anomaly in till extending over 3 kilometres.

The ABG Zone consists of mineralized quartz veins which reported up to 0.44 g/t Au, 34 g/t Ag and 1.23% Cu. The area is characterized by an arsenic till anomaly.

The Gerfaut occurrence, which was discovered previously and has been the focus of historical programs, consists of Au - Ag +/- Pb +/- Zn mineralization associated with silicified, dolomitized and K-altered volcanoclastics. Mineralized samples, assaying between 1.03 and 198 g/t Au, were collected from boulders and sub-crops over 8 kilometres, their range being coincident with a magnetic high trend. A historic diamond drill hole returned 3.08 g/t Au over 10.50 metres.

Based on the work completed to date and the results leading to the identification of new high-grade gold mineralized zones along a 40 kilometre trend and on the fact that the Qiqavik property is under-explored, further exploration work is warranted.

2- INTRODUCTION

The Qiqavik property comprises 614 contiguous map designated mineral titles covering an area of 24,832 hectares (248 km²) distributed in one main block. Five hundred and sixteen (516) claims of the Qiqavik property are 100% held by True North Nickel. Ninety-three (93) mineral titles are 100% held by Les Ressources Tectonic, and True North Nickel entered into an exclusive option to acquire 100% undivided legal and beneficial interest in these 93 mineral titles. Five (5) mineral titles are 100% collectively held by Wayne Holmstead and Geotest Corp, and True North Nickel entered into an exclusive option to acquire 100% undivided legal and beneficial interest in these 5 mineral title.

The Qiqavik property sits in the volcano-sedimentary Parent Group of the Cape Smith Belt dominated by basalts and basaltic to andesitic pyroclastics interlayered with thin clastic sediment bands. Few mafic to ultramafic sills as well as dioritic to tonalitic post-tectonic intrusives intrude the volcano-sedimentary package.

In 1995-1996, Falconbridge Exploration Ltd completed reconnaissance in the eastern part of Qiqavik. Mapping led to the discovery of the Gerfaut mineralized occurrences, which are silicified tuffs and cherts hosting disseminated sulfides and stringers of chalcopyrite, pyrite, sphalerite, and galena. Grab samples from these mineralized occurrences returned up to 1.37% Cu, 3.55% Zn, 8.1 g/t Ag, and 0.93% Cu, and 6.40% Zn (GM 54904). Following this discovery, Falconbridge performed a 10.3 line-kilometres ground magnetic and electromagnetic (MaxMin) survey and drilled a total of 325 metres in 2 holes, Par96-01 and Par96-02 (GM 54 904). Hole Par96-01 intersected several zones with high gold values corresponding with pyrite, chalcopyrite and hematite stringer zones in chloritized, carbonate-rich mafic to ultramafic schists. In addition, 0.60m returning 0.87 g/t Au was also intersected in hole Par96-02.

The 1998 SOQEM exploration program also involved a one week prospecting program, including the collection of 98 grab samples, and the re-sampling (67 samples) of the two previous Falconbridge drill holes. This re-sampling extended the mineralized interval in DDH Par96-01 to 10.5m (between 102.9 and 113.4 metres) at 3.08g/t Au, including 1.1m at 5.45 g/t Au, 0.59% Zn and 3.4m at 6.79 g/t Au and 0.37% Zn. This additional sampling suggests that gold mineralization is not only restricted to quartz veins, but extends within the matrix of the host rock and is closely associated with silicification and arsenopyrite.

In 2011, Les Ressources Tectonic acquired 10 claims covering the main Gerfaut mineralized occurrences. The property was granted for option to Corvus Gold Inc and expanded in 2012. The same year, Corvus Gold completed an exploration program including till sampling, soil (MMI) sampling, and rock sampling. The 2012 program led to the identification of 6 Au, Ag, Sb, Te, Bi soil/till anomalies plus 7 mineralized (Au) rock samples grading up to 23.6 g/t Au from new occurrences. Both rock samples and till/soil sampling anomalies stretched 12 kilometres along strike of a magnetic high spatially coincident with conductor trends identified by the 1998 SOQEM work.

In 2015, shortly after acquiring the option agreements on the Gerfaut block through tectonic resources and Holmstead, a short 10 reconnaissance prospecting program confirmed the historical findings. Based on this, TNN expanded the property 25km westward following the same geological package and structures to the current property footprint stretching over 42 km east-west in the Parent Group. The purpose of the 2016 exploration season was to perform a mapping and sampling program on new areas of the property, carry out IP geophysics and define drill targets for a planned 1000m drill program. This report summaries the 2016 gold exploration activities on the Qiqavik property and surrounding TNN claims.

3- PROPERTY DESCRIPTION AND LOCATION

3.1 Location

The Qiqavik property is located in the northernmost part of Nunavik, northern Quebec, approximately 70 kilometres south of the Northern Village of Salluit, a regional community on the Coast of the Hudson Strait (Figure 3). The property is centered at 75°30' West longitude and 61°43' North latitude, or in UTM coordinates system (Nad 83, Zone 18) at 474,000E and 6,825,000N. The property is bordered to the West by longitude 75°52'00" W, to the East by longitude 75°05'30" W, to the North by latitude 61°39'30" N and to the South by 61°31'30" N.

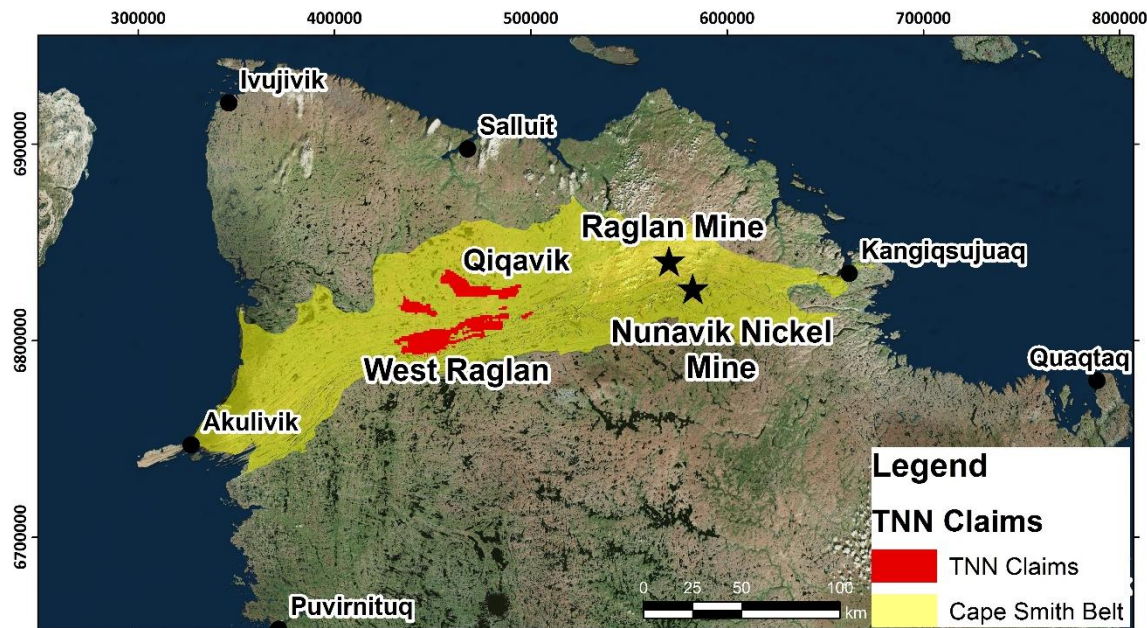


Figure 3.1 General location map of Qiqavik property (source: TNN)

3.2 Claim ownership

The Qiqavik property comprises 614 adjacent map designated mineral titles covering an area of 24,832 hectares (248 km²) distributed in one main block in the central part of the Cape Smith Belt (Figure 3.2).

Five hundred sixteen (516) claims of the Qiqavik property were mapped designated from open ground in 2015 and 2016 by, and are 100% held by True North Nickel. These claims were indicated as free of any royalties, back-in rights, hypothec, grubstake agreements or other encumbrances by True North Nickel representatives. Mineral titles registered under True North Nickel are listed in Appendix 1, as extracted from Gestim online registry.

Ninety-three (93) mineral titles of the Qiqavik property, referred to as the *Gerfaut block*, were mapped designated from open ground between 2012 and 2015 by, and are 100% held by Les Ressources Tectonic, a Quebec City-based private company. Mineral titles registered under Ressources Tectonic are listed in Appendix 2, as extracted from Gestim online registry (Figure 3.2).

Five (5) mineral titles included in the Qiqavik property, referred as the *Goshawk property*, were mapped designated from open ground in 2015 by, and are 100% collectively held by Wayne Holmstead, an individual from Ontario, and Geotest Corp, an Ontario-based company. Mineral title registered under Holmstead and Geotest are listed in Appendix 3, as extracted from Gestim online registry (Figure 3.2).

Map designated cells have by law a pre-established perimeter of 30 seconds of arc longitude by 30 seconds of arc latitude. Therefore, no land surveying or claim patenting are needed and no border conflict can be raised on such.

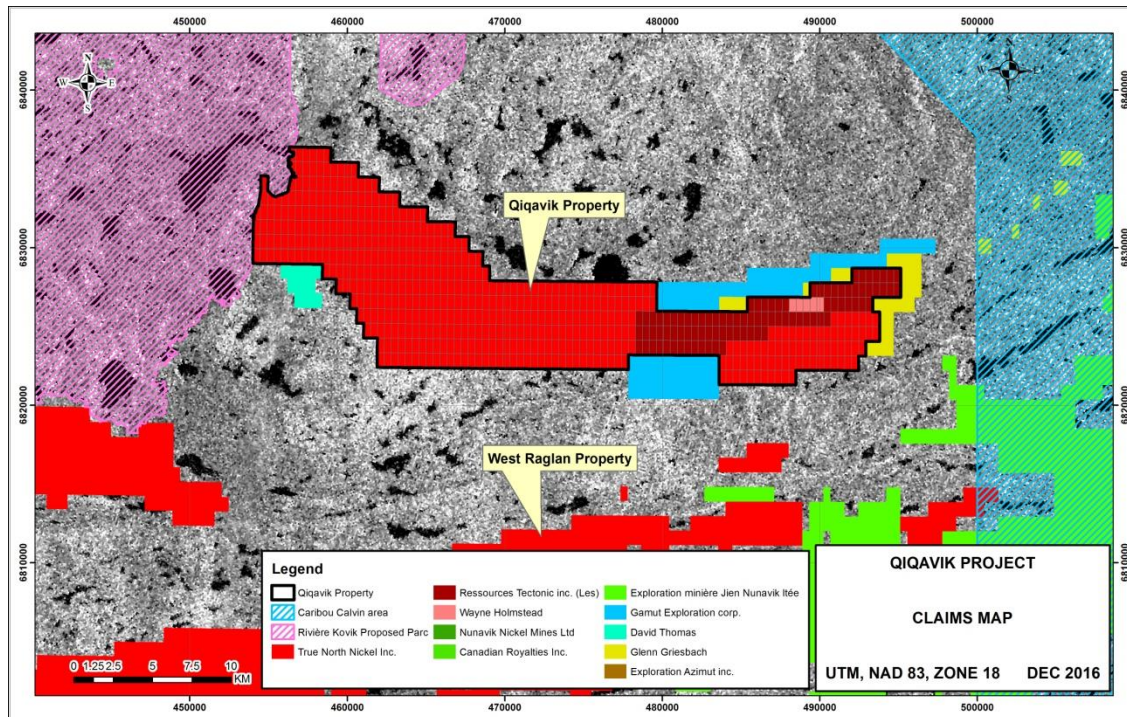


Figure 3.2 Mineral titles map of the Qiqavik property area, (December 2016).

3.3 Claim status

The claim list was obtained from the Ministère de l'Énergie et des Ressources Naturelles du Québec on-line registry, on February 8th, 2017. This list is provided in **Appendices 1 to 3**. All the titles are duly registered either under the name of True North Nickel, Les Ressources Tectonic, or Wayne Holmstead. The claims map is provided in Figure 3.2.

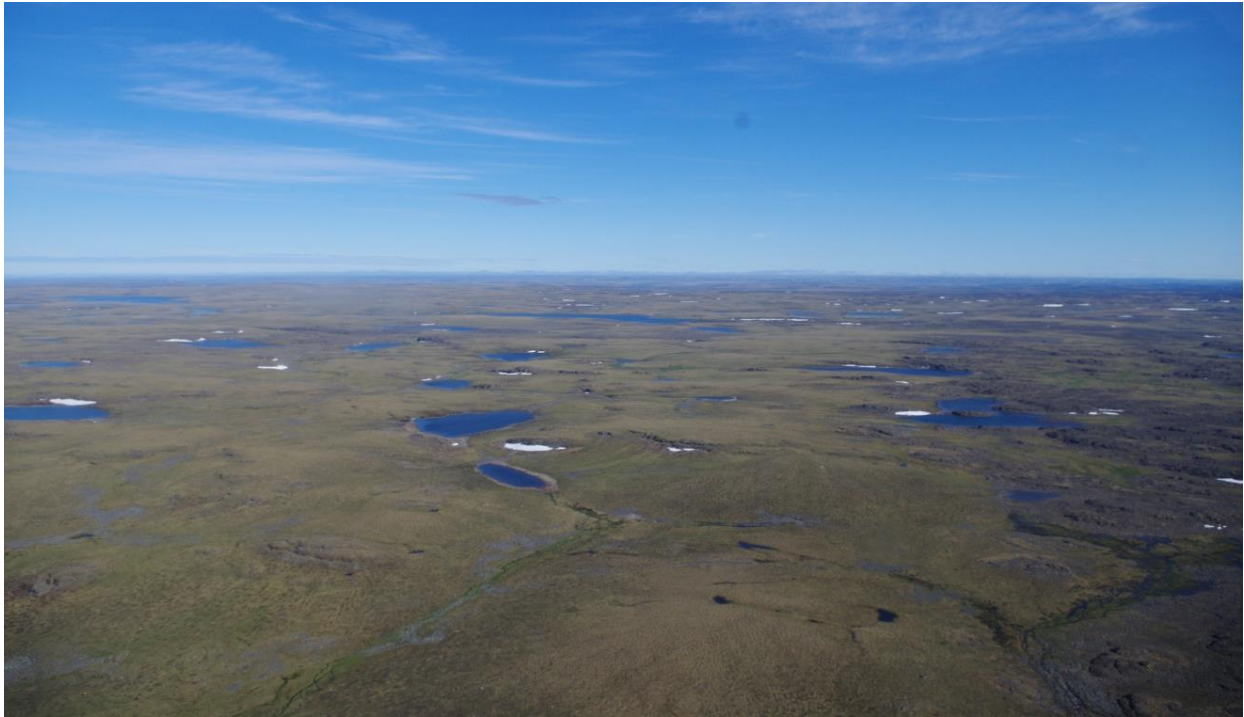
Exploration titles in Québec are required to be renewed every two years, sixty days prior to their anniversary or up to their anniversary with a penalty. A renewal fee is payable at each renewal. Renewal also requires assessment credits accumulated from exploration expenditures.

3.4 Accessibility, Climate, Infrastructures and physiography

The Qiqavik project is situated approximately 400 kilometres north of the tree line, at an average altitude of 375 metres above sea level in typical tundra country. The topography of the area consists in North-West / South-East trending rocky ridges and valleys in the western part of the property, to flatter and grass covered tundra with isolated small hills in the eastern part (Picture 1). Exposed rocks were affected by frost action, reducing many outcrops to rubble and angular blocks. Lowland areas are typically covered by till and swampy tundra, with scattered felsenmeer. The entire map area lies in the zone of discontinuous, but widespread permafrost, which can extend to depths of 540 metres (Stewart, 1976).

Vegetation consists of sparse shrubs, dwarf birch, alders, and plants that grow to less than 25 cm in height. Ground cover consists of grass and moss. Lichens partially cover most outcrops. During the summer, arctic wildflowers and berries can be seen.

Wildlife is generally scarce; the most common mammals in the project area are caribous. Other wildlife includes fox, hare, snowy owl, Peregrine falcon, Canada geese, Arctic hare, lemming, and voles. Polar Bears have been sighted few times in the area over the last 15 years, but are very rare. Local rivers and lakes contain arctic char and lake trout.



Picture 1: Typical landscape of the Qiqavik project area.

The climate in the area is characterized by short, cool summers and long, very cold winters. Average annual temperature in the region is -10°C . Approximately 650 mm of precipitation falls annually (75% as snow). July and August temperatures range between 0°C and 20°C , and spring, winter and autumn temperatures range between 0°C and -50°C . First snows are typically expected in early to mid-September. The area is subject to strong wind conditions and periods of dense fog at any time of year. Sheltered areas often remain snow-covered throughout the year. Ice thickness on the lakes can reach up to 2 metres in winter.

Field work season is short, spanning through July and August only to be conducted safely. Helicopter work should be avoided during the spring and autumn due to blizzard and harsh weather. Winter field work, including diamond drilling and geophysics, is not recommended with the current camp configuration, the camp not being properly equipped for extremely cold weather, high winds, and heavy snow loads. Insufficient daylight, heavy blizzard and lack of background contrast also hamper movements to and from the camp and work sites in winter.

The Northern Village of Salluit is the closest community to the project area and is situated along the coast approximately 70 kilometres to the north. Puvirnituk, the largest community on the west side of Nunavik, is located some 190 kilometres to the southwest along the coast of Hudson Bay. Both have airports with daily scheduled flights to Montreal. Heavy cargo is transported to communities by sea-faring ships twice per summer.

There is no road access or any other infrastructure on the Qiqavik property and it is only accessible by helicopter. The 2016 exploration team accessed the project by helicopter from the camp Chukotat on a daily basis. Camp Chukotat (Picture 3) is located approximately 32 kilometres southwest from the center of the Qiqavik property, on the True North Nickel 100% owned West Raglan property, and is accessible either by helicopter or STOL fixed-wing aircraft. A 256 metres airstrip was constructed 8 kilometres south of the camp Chukotat in 2008 and is still used by Air Inuit's Twin Otter aircraft. The airstrip was inspected and used during the 2016 program and is considered to be in excellent condition.



Picture 2: Photo of Camp Chukotat looking north.

Cargo for setting up and opening camp are typically shipped by truck from Rouyn-Noranda to LaGrande Airport and then by cargo chartered plane to Puvirnituk. Supplies and personnel are flown from the Abitibi (Rouyn-Noranda Airport) to Puvirnituk by charters and then transported to camp Chukotat airstrip via Air Inuit Twin Otter.

Between 2004 and 2006, an ice road/trail was established and used by the former operator between camp Chukotat and the Northern Village of Salluit for fuel and equipment mobilization during winter months. But this transportation option was abandoned due to safety issues.

Camp Chukotat is located 32 kilometres southeast of the center of the Qiqavik property. The camp has a maximum permitted capacity of 60 people and it is equipped with a kitchen, nursing station, 2 helipads and a 256 metres airstrip located 8 kilometres to the south. The camp is owned and operated by True North Nickel Inc. and only open during field exploration activities.

As previously mentioned, the Qiqavik project site is located approximately 70 kilometres south of the Northern Village of Salluit and approximately 190 kilometres north-east of Puvirnituk. Both communities are situated along the coast and are Inuit-dominated. Both have airports with daily scheduled flights to Montreal, hotel with self-service kitchen, Northern Store and FCNQ Coop to supply all essential needs for local residents, (such as food, furniture, and clothing, but choices and quality can be limited) and healthcare centers with limited services.

4- EXPLORATION HISTORY

Very limited exploration work has been completed to date in the current Qiqavik property area. Furthermore, most of the historical exploration work completed in the area focused on nickel-copper mineralization.

4.1 Early history

The first exploration work recorded in the regional project area dates back to 1931-1932 and consisted mainly of prospecting and regional mapping. This work, performed on behalf of the Murray Mining Corporation, led to the identification of rocks considered favorable for base metals, as well as some nickel-copper mineralized surface occurrences along the Cape Smith Belt. The first recorded magnetic-electromagnetic airborne survey was completed in the mid-1950s.

In the mid-1980s, the Quebec government completed regional mapping of the area at 1:50,000 scale, encompassing the current Qiqavik area. This work led to the discovery of the first mineralized occurrences within the property, the Kovik River occurrences, returning anomalous values up to 0.1 g/t Au, 0.18% As and 1.06% Zn from several samples and suggesting some gold potential (Giovenazzo et al., 1991, MB 91-23).

4.2 Recent history

In 1995-1996, Falconbridge Exploration Ltd owned the mineral exploration licence # 1103, which overlapped with the eastern part of the current Qiqavik property. Reconnaissance mapping led to the discovery of the Gerfaut mineralized occurrences, which are silicified tuffs and cherts hosting disseminated sulfides and stringers of chalcopyrite, pyrite, sphalerite, and galena. Grab samples from these mineralized occurrences returned up to 1.37% Cu, 3.55% Zn, 8.1 g/t Ag, and 0.93% Cu, and 6.40% Zn (GM 54904). This mineralization suggests a base metal potential.

Following this discovery, Falconbridge performed a 10.3 line-kilometres ground magnetic and electromagnetic (MaxMin) survey and drilled a total of 325 metres in 2 holes, Par96-01 and Par96-02 (Figure 4.1, Table 1). A limited amount of information is available in assessment reports (GM 54 904) regarding drilling method and core logging procedures. The crew was based at the Kenty Lake Camp, located approximately 40 kilometres ESE of the drilling sites, and drill cores were stored at this same camp. A helicopter-portable rig was used for drilling. A total of 47 samples were assayed from the core, 11 whole rock samples analyzed for major and trace elements and 36 assay samples analyzed for metals.

Table 1 Summary of 1996 drilling

Hole Number	Northing (Metres)	Easting (Metres)	Elevation (Metres)	Azimuth (Degrees)	Dip (Degrees)	Depth (Metres)
Par96-01	6826284	489238	386	180.0	-50	185
Par96-02	6826286	489431	414	180.0	-50	140
(coordinates in UTM, NAD 83, zone 18, collected at casing with handheld GPS in 2012)						Total metres
						325

Hole Par96-01 intersected several zones with high gold values corresponding with pyrite, chalcopyrite and hematite stringer zones in chloritized, carbonate-rich mafic to ultramafic schists. Mineralized intersections of hole Par96-01 are summarized in Table 2. In addition, 0.60m returning 0.87 g/t Au was also intersected in hole Par96-02.

In 1997, Exploration Boréale Inc. signed an option agreement granting the possibility to acquire 51% of interest in Falconbridge's property. In 1998, SOQEM signed an option agreement with Boréale Exploration giving them the possibility to acquire 50% of Boréale's interest in the property. The same year, 374 line-kilometres of an airborne magnetic-electromagnetic survey was flown at a 200 metres line-spacing, which highlighted two clusters of conductivity anomalies associated with magnetic highs. Those are interpreted to be somewhat continuous over several kilometres and sub-cropping.

Table 2 Mineralized intersections from hole Par96-01;

From (m)	To (m)	Length (m)	Au (g/t)	Ag (g/t)
82.36	83.00	0.64	5.19	4.8
103.42	104.00	0.58	4.45	5.4
104.57	104.91	0.34	4.8	5.3
110.00	111.35	1.35	15.18	20.7
112.00	113.40	1.40	0.96	1.3

(Length is apparent thickness measured along the core.)

The 1998 exploration program also involved a one week prospecting program, including the collection of 98 grab samples, and the re-sampling (67 samples) of the two previous Falconbridge drill holes. This re-sampling extended the mineralized interval in DDH Par96-01 to 10.5m (between 102.9 and 113.4 metres) at 3.08g/t Au, including 1.1m at 5.45 g/t Au, 0.59% Zn and 3.4m at 6.79 g/t Au and 0.37% Zn. This additional sampling suggests that gold mineralization is not only restricted to quartz veins, but extends within the matrix of the host rock and is closely associated with silicification and arsenopyrite. Some grab samples returned gold values up to 1.85 g/t Au, up to 5.5 kilometres west of the main Gerfaut mineralized occurrence, along the same magnetic high.

From 2003 to 2012, Anglo American Exploration Canada Ltd and Goldbrook Ventures Inc., focusing on nickel, copper and PGE exploration, completed extensive exploration work in the western part of the Cape Smith Belt. Only a limited amount of work overlapped with the current Qiqavik property. In 2004, Goldbrook Ventures, as part of their regional Raglan project, flew an extensive magnetic-electromagnetic AeroTEM airborne survey at 200 metres line-spacing. Part of this survey overlapped over 60 claims (24.6 km²) in the southeast extremity of the current Qiqavik property. In 2005, Anglo American flew a 325 line-kilometres magnetic-electromagnetic Spectrem airborne survey at 200 metres line-spacing over their Lac Belleau project. This survey encompassed 124 claims (51 km²) in the western part of the current Qiqavik property. In 2005, Anglo American flew another magnetic-electromagnetic Spectrem airborne survey at 200 metres line-spacing over their Spartan project, which overlapped with 14 claims (5.8 km²) in the north-east extremity of the current Qiqavik property (Figure 4.1). Those surveys generated good quality and valuable geophysical data.

All other exploration work completed by Anglo American and Goldbrook Ventures, including ground geophysics, till and soil sampling, prospecting, mapping and drilling and borehole EM survey were located dominantly outside of the limits of the current Qiqavik property and will not be described in the current report. The historical work on the Qiqavik Property is summarized in Table 3.

In 2011, Les Ressources Tectonic acquired 10 claims covering the main Gerfaut mineralized occurrences. The property was granted for option to Corvus Gold Inc and expanded in 2012. The same year Corvus Gold completed an exploration program including till sampling, soil (MMI) sampling, and rock sampling. The 2012 program led to the identification of 6 Au, Ag, Sb, Te, Bi soil/till anomalies plus 7 mineralized (Au) rock samples grading up to 23.6 g/t Au from new occurrences (Figure 4.1). Both rock samples and till/soil sampling anomalies stretched 12 kilometres along strike of a magnetic high spatially coincident with conductor trends identified by the 1998 SOQEM work.

The 2012 program also highlighted 2 base metal mineralized occurrences, one returning up to 3.88% Cu and 13.15 g/t Ag in frost heaves boulders of chloritized basalts with 15% chalcopyrite in veinlets and the second returning up to 1.82% Cu and 0.74% Ni in sub-in-place boulders of ultramafic rock with 20% disseminated pyrrhotite-chalcopyrite. These results suggested base metal and gold potential for the area. However, Corvus Gold relinquished the option in 2013 to focus on more advanced projects elsewhere. The 5 claims covering the original Gerfaut mineralized occurrences lapsed and were staked by Wayne Holmstead in 2015.

Table 3: Summary of the exploration history of the Qiqavik property

Year(s)	File #	Company (ies)	Covered area	Description of Work
1931-32 & 1955 to 57	GM 05261; 10049	Murray Mining Corp	Regional survey including the current Qiqavik property	Regional prospecting, leading to the identification of a significant base metal (Ni-Cu) potential.
1957	GM 10449	Spartan Air Services for different claims holders	Regional survey including the western part of the current Qiqavik property	Airborne Electromagnetic survey
1969	GM 26479	Amax Exploration Inc.	Eastern half of current Qiqavik property	Magnetic-Electromagnetic airborne survey
1985-86	DP-85-15; DP-85-29; ET-87-07; ET-87-08	MERNQ	Regional area including the current Qiqavik property	Regional mapping and sampling
1995-96	GM 54299; 54904	Falconbridge Ltd	Eastern part of the current Qiqavik property, including the Gerfaut Block	Ground geophysics including 10.3 line-km of magnetic and HLEM (MaxMin) surveys Prospecting, leading to the discovery of Gerfaut mineralized occurrences returning 1.37% Cu, 3.55% Zn, 8.1 g/t Au and 0.93% Cu, 0.16% Pb, 6.4% Zn and 10 g/t Au in grab samples Two DDH totaling 325 metres, Par-96-01 several zones with high gold values including 1.35m of 15.18 g/t Au and 20.7 g/t Ag between 110.0 and 111.35m
1998	GM 56129; 56130	Boréale Exploration SOQEM	Eastern part of the current Qiqavik property, including the Gerfaut Block	Magnetic-Electromagnetic airborne survey including 374 line-km at 200 metres spacing Prospecting with grab sample returning 1.8 g/t Au at 5.5 km West of known mineralization Resampling of Par-96-01 extending the mineralized interval to 10.5 metres at 3.08 g/t Au
2001	GM 60770	Noranda Inc.	Regional survey including eastern half of current Qiqavik property	Follow up on hyperspectral survey No significant results inside the overlapping area with Qiqavik property
2005	GM 62230; 62231	Anglo American Expl.	Survey of former AA's Lac Belleau property covered 51km ² (124 claims) in western part of current Qiqavik property Survey of former AA's Spartan property mainly outside but covered 5.8km ² (14 claims) in the NE extremity of current Qiqavik property	Spectrum Magnetic-Electromagnetic survey, 200 metres line-spacing
2004-2012	GM 61397; 62809; 63002; 63003; 63073; 64052; 67489	Goldbrook Ventures inc Anglo American Expl. Jan Nunavik Ltd	Very large project including many properties Only former Nuvilik property partially overlapped with current Qiqavik property over 25km ² (60 claims) in SE part	Only magnetic-electromagnetic AeroTEM airborne survey and limited prospecting work overlapped with the current Qiqavik property Other work completed outside of the current Qiqavik property and not relevant to this report, included ground geophysics, soil-till-moss mat sampling, prospecting-mapping-rock sampling, drilling and BHEM
2012	GM 68176	Les Ressources Tectonic inc Corvus Gold Inc.	Current Gerfaut block in Qiqavik property	A 2-week field program including till samples (688 samples), soil MMI sampling (559 samples) and rock sampling (155 samples) 7 new mineralized occurrences and/or boulders identified and grading up to 23.6 g/t Au 6 Au anomalies identified in till

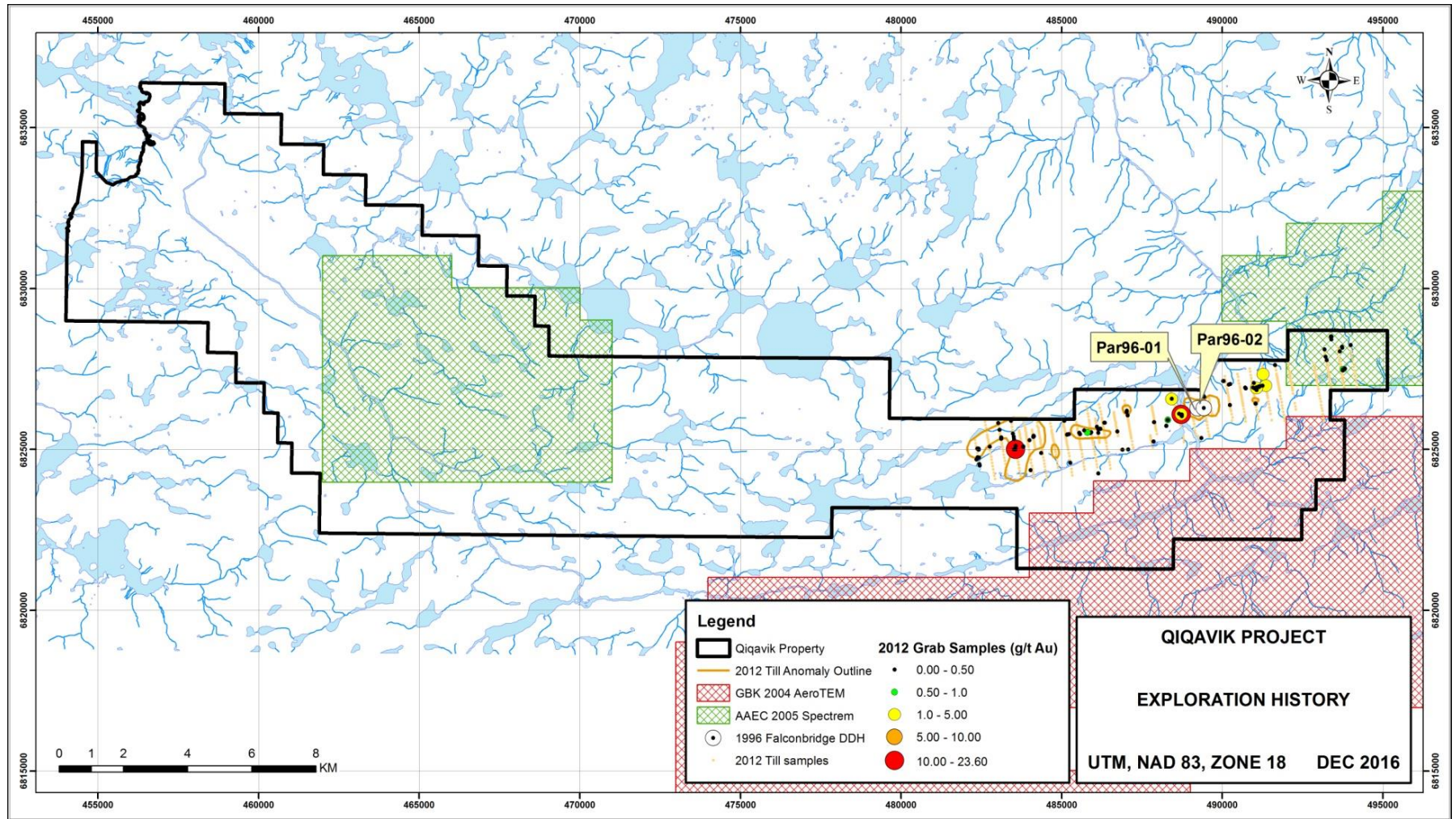


Figure 4.1 Map of the historical exploration work on Qiqavik property

5- GLACIAL GEOLOGY

The overall dispersal of rock debris in the Cape Smith Belt is related to a major phase of ice flow associated with an ice divide extending along a NW-SE axis between Ivujivik and Lake Nantais. This represented the northern extension of the New-Quebec ice divide during the last glaciation (Daigneault, 2008). The Qiqavik property is located to the North-East of this ice divide, and the main ice flow direction in this area is toward NNE (Figure 5.1).

Two other ice flow phases preceded the main one, the first being associated with radial ice flow from a centre North of the Monts Puvirnituk, and a second which moved outward from a dispersal centre farther South, probably corresponding to the Payne dispersal centre (Daigneault, 2008).

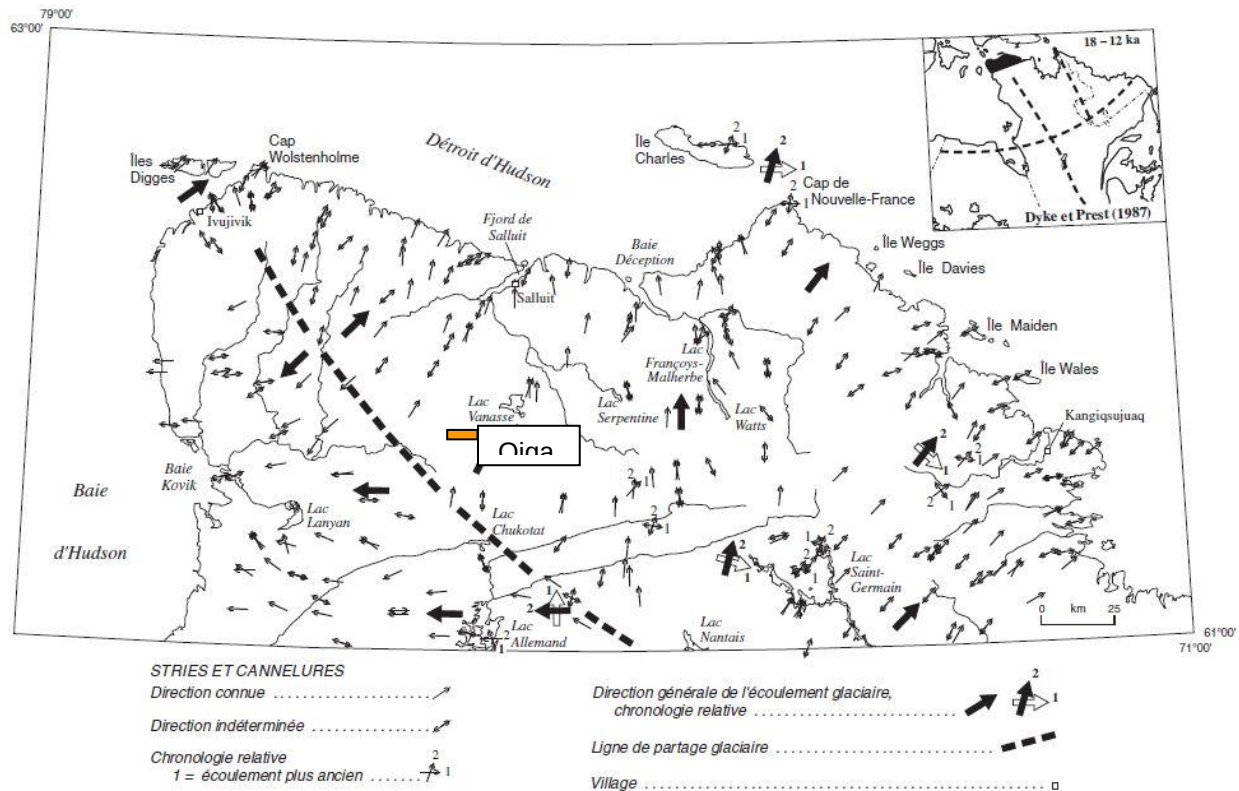


Figure 5.1 Map showing ice flow direction in the Ungava peninsula (Daigneault, 2008)

6- GEOLOGICAL SETTING AND MINERALISATION

6.1 Regional geology

The Qiqavik property is located in the West-central portion of the paleo-proterozoic Cape Smith Belt (CSB), which is part of the Circum-Superior magmatism event which formed a ring around the Archean Superior Craton (Figure 6.1). The Cape Smith Belt, also known as New-Québec Orogen, consists of volcano-sedimentary and plutonic series or rocks grouped into main lithostratigraphic domains, the North and the South Domains which are divided by the Bergeron Fault.

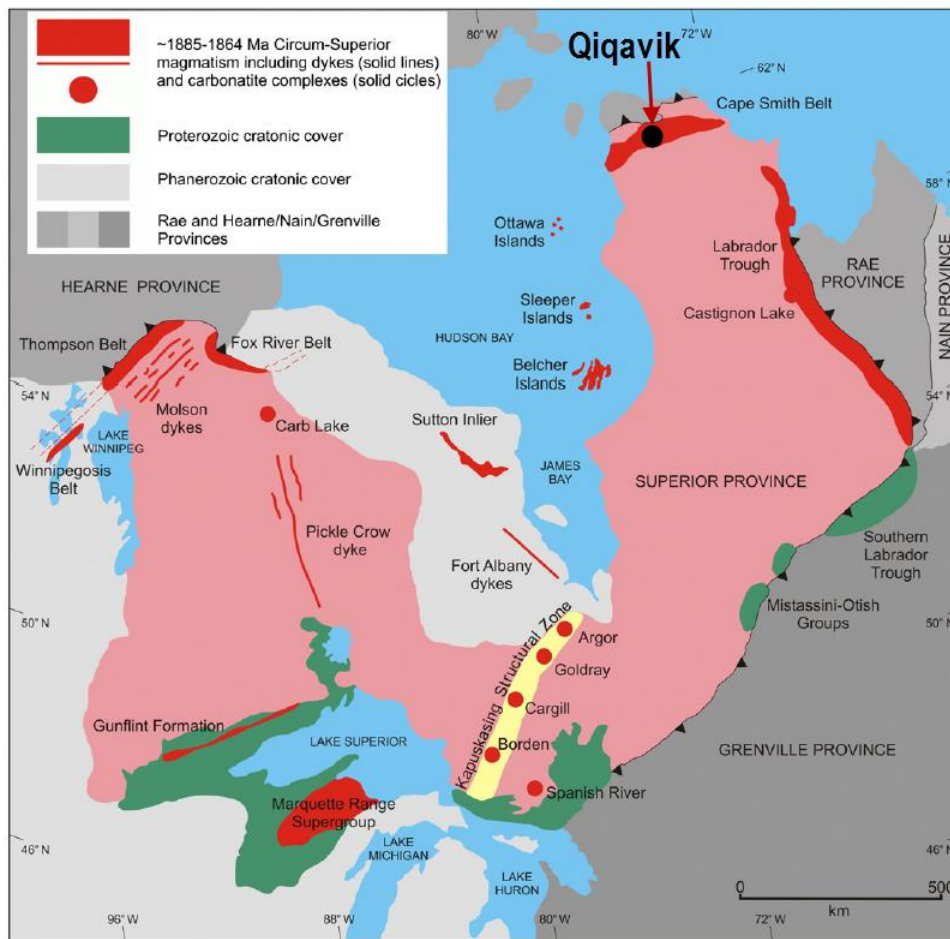


Figure 6.1 Geological map showing the disposition of the Circum-Superior Belt.
(Modified from Minifie et al. 2013, after Baragar and Scoates 1987)

The Qiqavik property sits in the North Domain (Figure 6.2) which consists of 3 main groups; the volcano-plutonic Watts Group (1999 Ma) interpreted as an old ophiolite (Scott, 1990; Scott and al., 1991), the volcano-sedimentary Parent Group (1898-1860 Ma) and the sedimentary Spartan Group. The Qiqavik property is mostly included in the Parent Group dominated by pyroxene and plagioclase phyric basalts and basaltic to andesitic pyroclastics interlayered with thin clastic sediment bands (Picard et al., 1990, 1993; Picard, 1995). Few mafic to ultramafic sills as well as dioritic to tonalitic post-tectonic intrusives, collectively referred as the Cape Smith Suite, intruded this volcano-sedimentary package.

The rocks of the South and North Domains were deformed by three different events, all included in the Trans-Hudsonian Orogen (Picard, 1995), which is one of the most significant paleo-proterozoic orogenic belts (Lamothe, 2014). The rocks of the Parent Group are metamorphosed from the upper greenschist to lower amphibolite facies.

The North Domain of the Cape Smith Belt shows some similarities with the Reindeer Zone located at the western limb of the Trans-Hudsonian Orogenic Belt, where the Flin Flon Mining Camp is well known for its VMS mineralization (Lamothe, 2014). Relics of the ocean floor (2.07 to 1.92 Ga) similar to the Watts Group (Corrigan et al., 2007) occur in the Glennie-Flin Flon Complex and in the La Ronge - Lynn Lake belts. Thick series of calc-alkaline felsic to mafic lavas and volcanoclastics associated with arc magmatism are characteristic of these areas, which host a significant amount of orogenic gold mineralization, such as in the La Ronge Belt (Corrigan et al., 2007). Gold mineralization has also been observed in the Labrador Trough, located in the Eastern segment of the Trans-Hudsonian Orogenic Belt. Although little to no gold exploration has been completed to date in the Cape Smith portion of the belt, these observations may suggest a prospective environment for gold mineralization and exploration, more particularly in the North Domain.

The South Domain of the Cape Smith belt is well known for its nickel-copper-PGE mineralization associated with ultramafics, with two active mines in the eastern part of the Cape Smith Belt, the Raglan Mine owned by Glencore and the Nunavik Nickel Mine owned by Canadian Royalties.

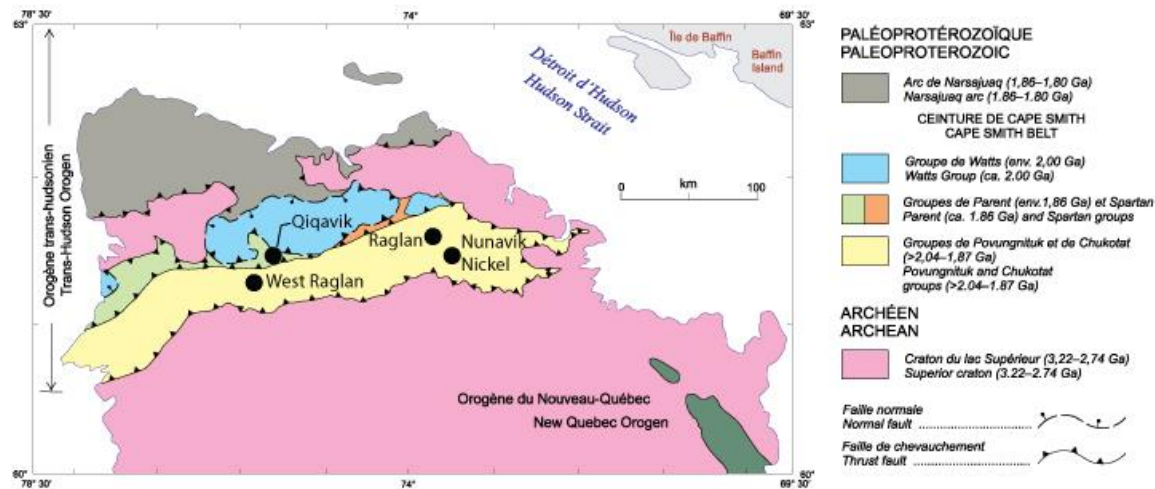


Figure 6.2 Regional map of the Cape Smith Belt showing the Qiqavik property in the Parent Group of the Northern Domain
(Modified from St-Onge et al. 2006)

6.2 local geology

The Qiqavik property extends over 42 kilometres east-west in the Parent Group of the North Domain of the Cape Smith Belt. The stratigraphy trends mainly East-West in the central and Eastern parts of the property, and trends approximately WNW-ESE in the Western part (Figure 6.3).

The southern portion of the property is mainly composed of massive and pillowed basalts in alternation with thick sequences of mafic lapilli and/or blocky volcanoclastics. Some of these horizons are strongly schistose with a strong chloritic alteration. In the northern portion of the property, the plagioclase phyric basalts are common, with minor amygdaloidal basalts. The composition of the basalts is tholeiitic to calc-alkaline (Lamothe, 1994; Picard, 1995). Some intermediate to felsic fine grained to blocky volcanoclastics horizons occur, mainly observed in the central portion of the western part of the property (Figure 6.3). Minor interflow sediments, as well as cherty iron formations, are observed through the sequence. Fine to coarse grained gabbro intruded the volcano-sedimentary package in the North and North-Western parts of the property. Those gabbros are most likely related to the Cape Smith Suite.

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The Qiqavik property is cut by E-W to WNW-ESE south-verging thrust faults, delineating multi-kilometric thrusting slices. These faults are expressed as major deformation corridors, such as the Lake Belleau fault system (Giovenazzo et al., 1991; Tremblay, 1989), which roughly follows the Kovik River canyon. They are characterized by chlorite-actinolite schists, with numerous carbonatized and hematized altered zones, as well as numerous quartz and quartz-carbonates veins and veinlets.

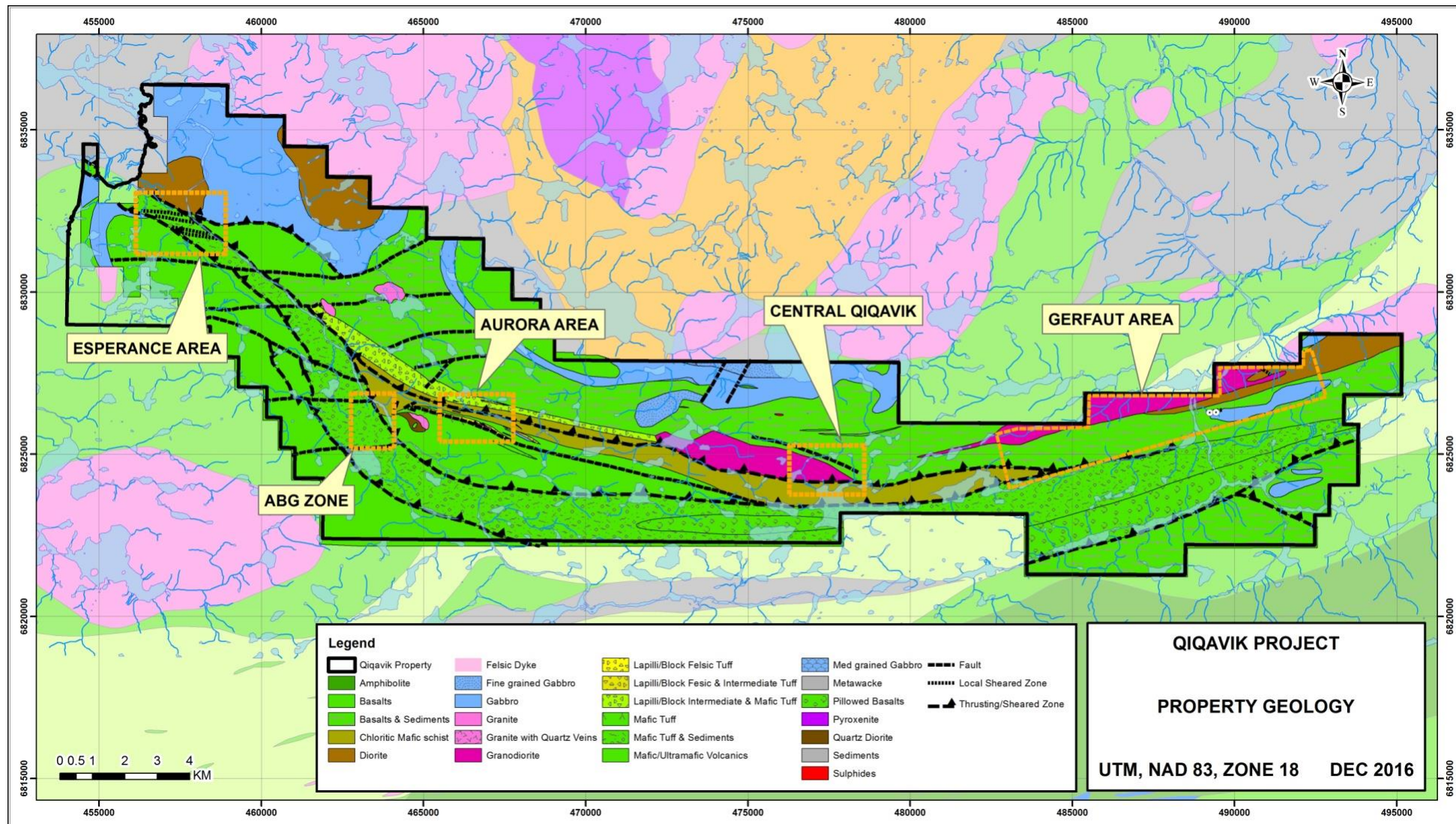


Figure 6.3 Geological map of the Qiqavik property

6.3 Mineralization

A total of five main significant mineralized areas have been discovered to date on the Qiqavik property. These areas from West to East are: Esperance, Aurora, Gerfaut, ABG Zone and Central Qiqavik (Figure 6.3).

6.3.1 Esperance Area:

The Esperance mineralized zone was discovered in summer 2016 by field mapping in the north-western extremity of the Qiqavik property (Figure 6.3). The area is dominated by pillowed basalts, interlayered with some massive and volcanoclastic horizons, including breccias, lapilli and blocky tuffs (Map 1). These rocks are intruded by plagioclase phyric and plagioclase+quartz phyric felsic intrusives and gabbroic sills, affected by E-W and WNW-ESE trending sheared zones.

High-grade Au +/- Ag +/- Cu mineralization in the Esperance zone is associated with a high abundance of sulphide mineralization which occurs for over more than 500 metres (traced at surface) along an ENE-WSW shear zone (Map 1). Several boulders sampled west of the occurrence returned up to 7.7 g/t Au and up to 10.3% Cu, suggesting the mineralized zone may extend over more than 900 metres to the West. Mineralization in the Esperance area has mainly been observed in boulders, boulder fields and frost heave (Picture 3a), and locally in outcrops. Mineralization consists of disseminated to massive arsenopyrite in sheared mafic volcanics (Picture 3b), disseminated to massive arsenopyrite and chalcopyrite in sheared mafic intrusives, auriferous pyrite and chalcopyrite quartz veins and auriferous pyrite-bearing schists. The best gold and copper values from the Esperance area are listed in Table 4.



Picture 3a) Boulder field in Esperance area

Boulder field in Esperance area where samples P137664 (21.30 g/t Au) and P137665 (18.65 g/t Au) were collected

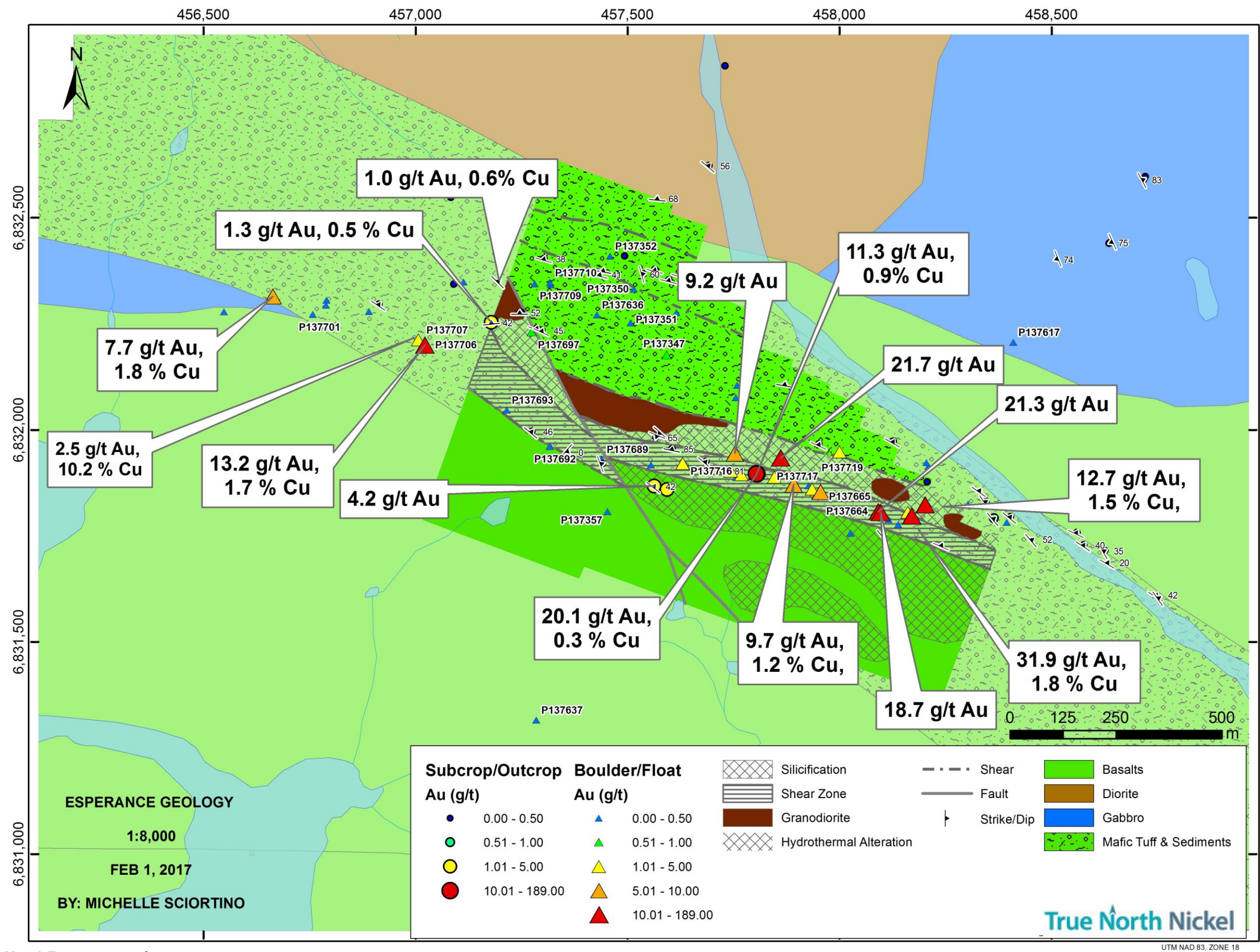


Picture 3b) Sheared basalt with disseminated and massive arsenopyrite

Sheared basalt with disseminated and massive arsenopyrite and some felsic breccia in shear (Sample P137659: 9.65g/t Au, 1.18% Cu)

Table 4: List of 2016 samples returning highest gold values in Esperance area

Sample	UTM E	UTM N	Sample Type	Au (g/t)	Ag (g/t)	Cu %
P137341	458170	6831797	Boulder	31.90	30.00	1.75
P137717	457861	6831934	Boulder	21.70	5.00	0.06
P137664	458091	6831807	Boulder Field	21.30	2.00	0.04
P137329	457805	6831896	Sub-crop	20.10	4.00	0.34
P137665	458096	6831805	Boulder Field	18.65	4.00	0.02
P137706	457022	6832200	Boulder	13.20	7.00	1.71
P137687	458202	6831823	Boulder	12.65	17.00	1.48
P137330	457804	6831896	Sub-crop	11.25	4.00	0.87
P137659	457892	6831871	Boulder Field	9.65	8.00	1.18
P137716	457753	6831944	Boulder Field	9.24	1.00	0.02
P137707	457006	6832212	Boulder	2.50	33.00	10.25



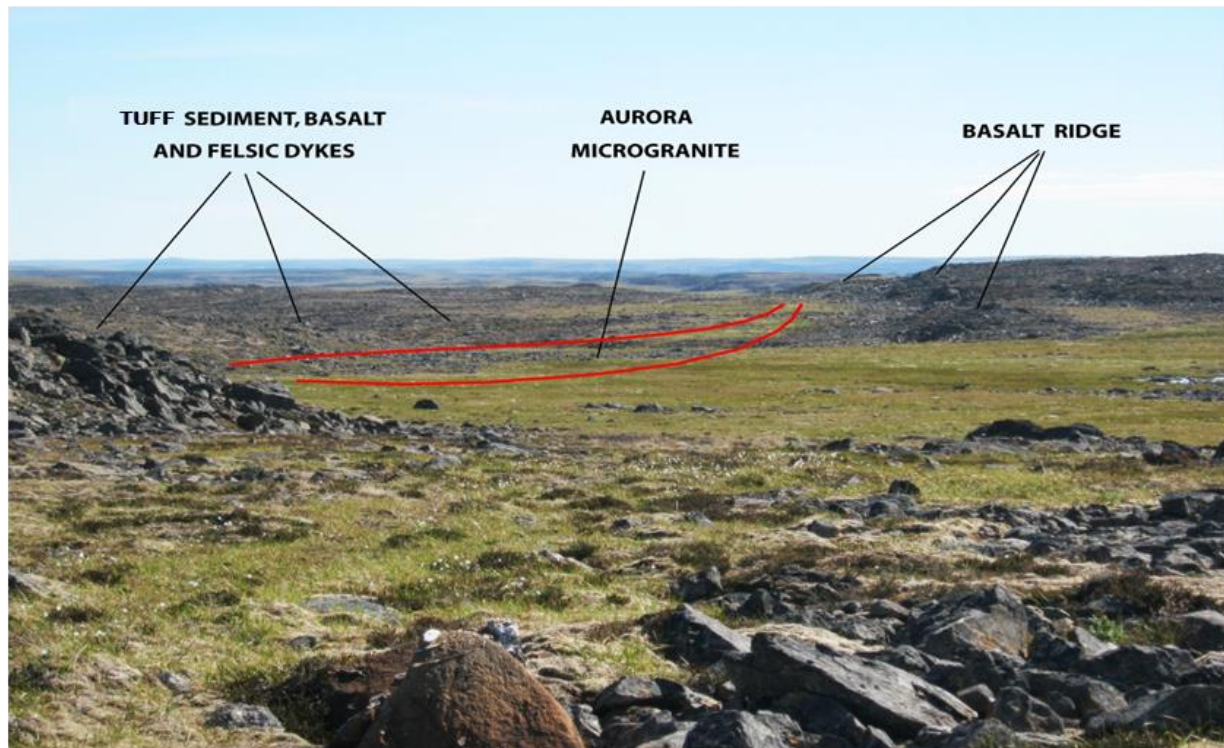
Map 1 Esperance geology

6.3.2 Aurora Area:

The high-grade gold mineralization in the Aurora area was discovered in the summer of 2016 by field mapping. The Aurora area is located in the western part of the Qiqavik property (Figure 6.3). It consists of a fine-grained felsic intrusive trending WNW-ESE over at least 600 metres, with an apparent width of 75 metres and dipping to the North. The Aurora granite is composed of feldspars-quartz- biotite with 1% sulphides (mainly pyrite). It is bounded to the south by a thick basalt sequence and to the north by felsic-intermediate volcanoclastics, sediments and basalts (Map 2 and Picture 4). The south contact with basalt is affected by metasomatic carbonate and fuchsite alteration. Felsic dykes were observed to the East and to the West of the Aurora granite, as well as at its northern contact. These dykes are typically whitish microgranites with 1 mm porphyritic feldspars in a very fine grained felsitic matrix, ranging from centimetres to 1 metre in apparent thickness. The granite contains up to 1-2% disseminated sulphides. A second type of felsic dyke, less common, consists in blackish porphyry rhyolite dykes, composed of 15% porphyritic plagioclases and 1-2% small quartz eyes in a translucent dark grey groundmass.

Pale to dark grey, fine-grained to microcrystalline quartz veins and veinlets, up to 29 centimetres thick, containing from trace to 7% sulphides plus some visible gold occur in various parts of the Aurora granite. Some veins are zoned and/or laminated. Sulphides include pyrite, pyrrhotite, chalcopyrite, galena, sphalerite, and locally arsenopyrite (Picture 5). These veins are oriented parallel to the length of the granite, dipping to the North (45 to 75 degrees). The Aurora area is located in a boulder field and outcrops of the mineralized zone are rare. However, numerous veins were observed in outcrop and sub-crop boulders, although their density and distribution still needs to be determined.

High-grade gold assays were obtained from quartz vein samples distributed over an extent of approximately 200 metres east-west (Map 2). These gold bearing quartz veins contain sulphide mineralization and are anomalous in Ag, As, Bi, Pb, Sb, Zn and W. The best gold analyses from the Aurora area are given in Table 5.



Picture 4: Field view of the Aurora area, looking to SE

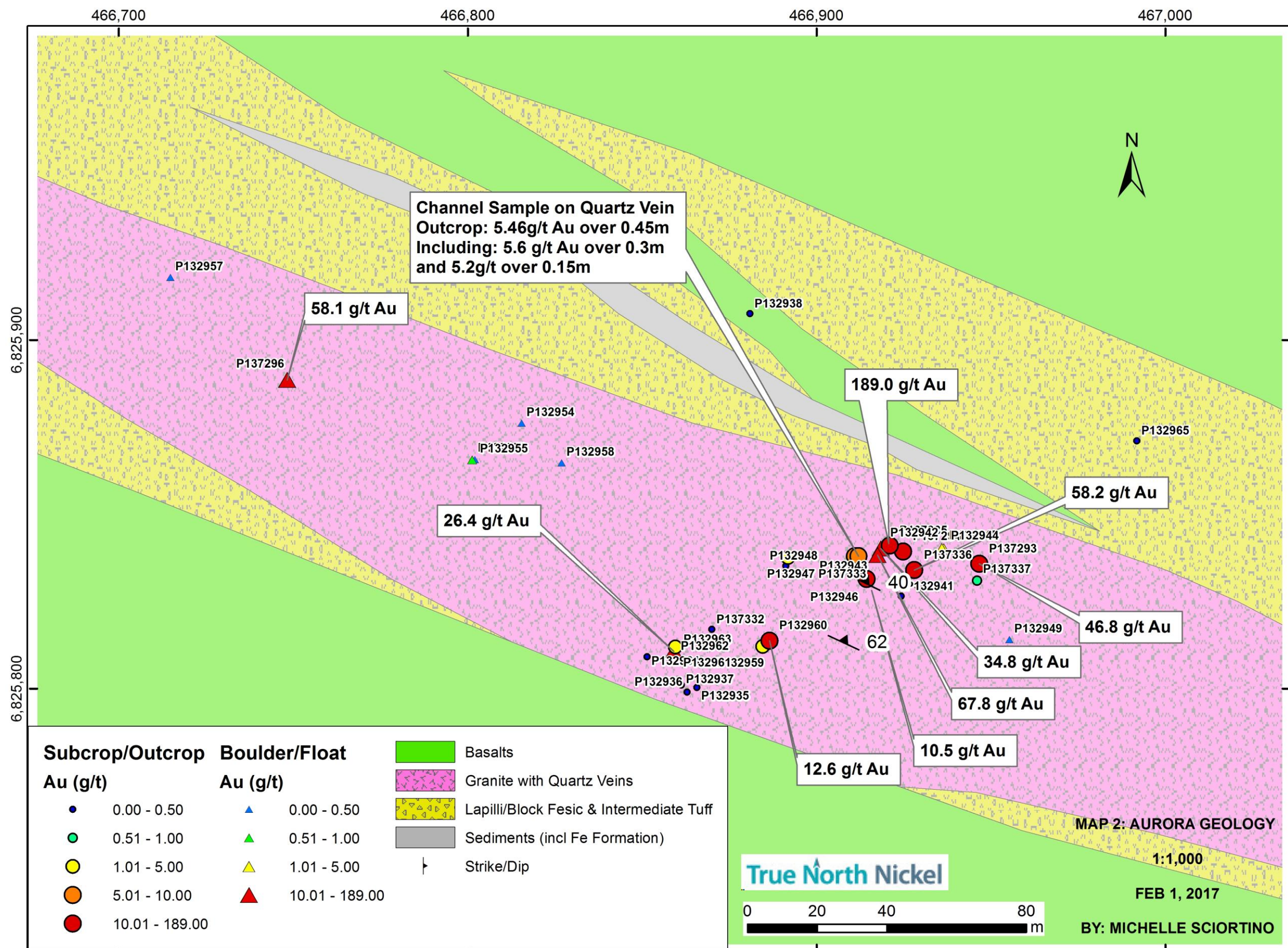


Picture 5: Sample 132942 showing mineralized quartz vein parallel to granitic body
(34.8 g/t Au and 45.0 g/t Ag)

Table 5: List of 2016 samples returning highest gold values in Aurora area

Sample	UTM E	UTM N	Sample Type	Au (g/t)	Ag (g/t)
P132942	466920	6825840	Sub-crop boulder, Qz Vn.	34.8	45
P132943	466920	6825840	Same boulder as P132942	67.8	36
P132946	466909	6825835	Outcrop, Qz Vn.	10.5	25
P132960	466887	6825814	Sub-crop boulder, Qz Vn.	12.6	46
P132961	466860	6825811	Sub-crop boulder, Qz Vn.	26.4	19
P137293	466946	6825835	Sub-crop, Qz Vn.	46.8	6
P137294	466924	6825839	Sub-crop, Qz Vn.	20.8	34
P137296	466748	6825888	Sub-crop, Qz Vn.	58.1	5
P137333	466911	6825838	Outcrop, Qz Vn and granite, over 0.30 m	5.6	4
P137334	466912	6825838	Outcrop, Qz Vn and granite, over 0.15 m	5.2	4
P137335	466921	6825841	Sub-crop, Qz Vn, channel over 13 cm. Same boulder than P132942 and P132943	189.0	51
P137336	466928	6825834	Sub-crop, Qz Vn, channel over 29 cm.	58.2	5

True North Nickel



Map 2 Aurora geology

UTM NAD 83, ZONE 18

6.3.3 Gerfaut Area:

Mineralization in the Gerfaut area was first reported by Falconbridge in 1995/1996. The Gerfaut area is located in the eastern part of the property (Figure 6.3). It is hosted in a volcano-sedimentary sequence of aphanitic basaltic flows and associated pyroclastics, with some minor (1 to 3 metres thick) chert bands. Basalts are dominantly massive with some variolitic pillowed and breccia flows, and local pyroxene phenocrysts. Cherts are intercalated with basalts, laminated or massive, and are locally densely mineralized with disseminated pyrrhotite and sphalerite, with stringers of chalcopyrite, pyrite, galena, and arsenopyrite. This volcanogenic massive sulphide (VMS) type mineralization yielded surface rock samples with significant Cu and Zn up to 1.36% Cu and 3.55% Zn; 3.17% Cu, 0.33% Zn and 1.16 g/t Au; and 0.94% Cu and 6.40% Zn (respectively samples 52131, 52136 and 52133, GM54904; recorded as Goshawk mineralized occurrence in SIGEOM database).

While testing surface VMS mineralization, hole Par96-01 intersected strongly sheared basalts with moderate chloritization and silicification, and local sericitization, locally injected with quartz and carbonate veinlets and containing up to 10-15% stringers of sulphides (pyrrhotite, arsenopyrite, chalcopyrite and sphalerite), which returned 3.08 g/t Au over 10.50 metres (GM56129). Subsequent sampling work highlighted a high-grade Au, Ag, Cu, Zn and Pb mineralization, hosted in highly silicified, dolomitized and K-altered volcanoclastics (Gauthier, 2015) and following a magnetic crest extending over more than 7.5 kilometres and coincident with a cherty iron formation (Figure 6.4). The best gold values from the 2015 sampling of the Gerfaut trend, mainly collected from boulders and/or sub-crops, are listed in Table 6.

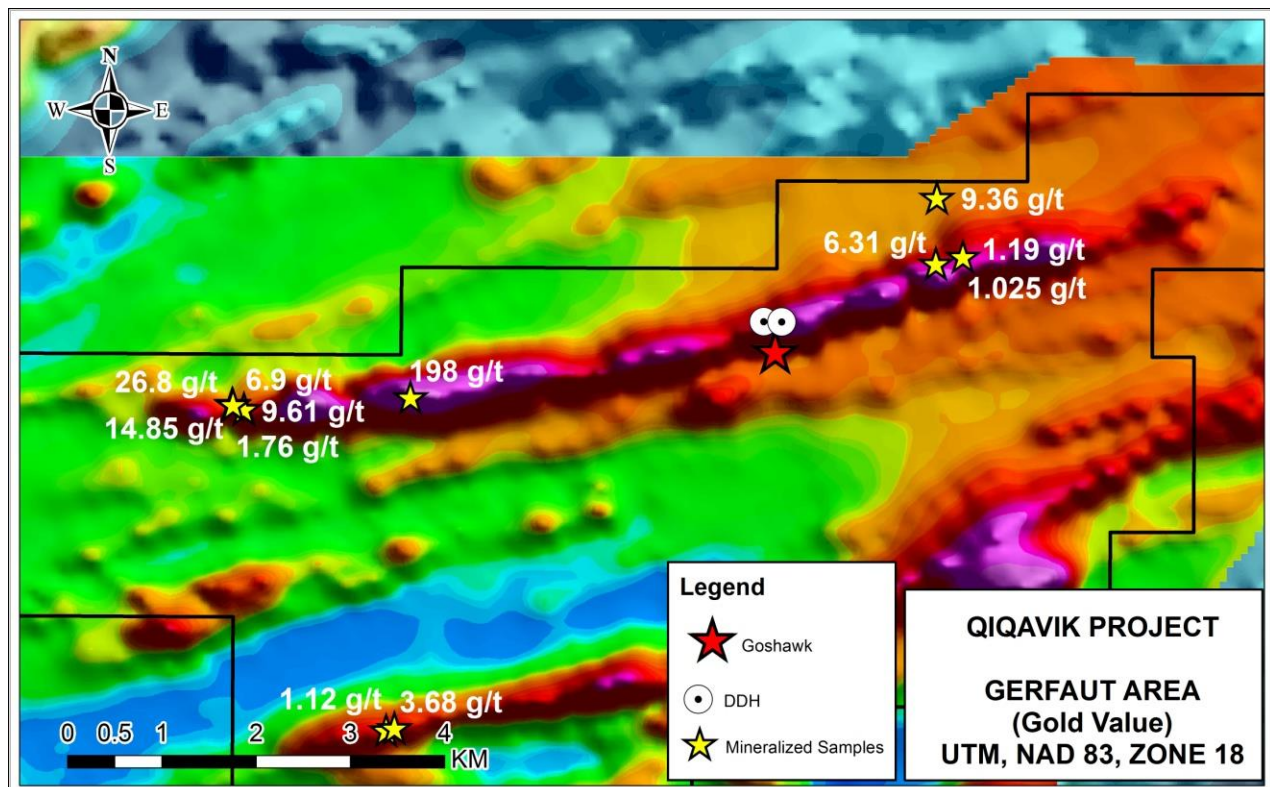


Figure 6.4 Location of surface rock samples returning high-grade Au values in Gerfaut area (over TMI)

Table 6: List of 2015 samples returning highest gold values in Gerfaut area

Sample	UTM E	UTM N	Sample Type	Au g/t	Ag g/t	Cu %	Pb %	Zn %
Q135362	491075	6827609	Sub-crop	9.36	23.0	0.05	1.12	0.27
Q135389	483725	6825370	Boulder local	14.85	33.0	0.05	2.02	2.44
Q135390	483724	6825367	Boulder local	6.90	20.0	0.10	0.57	1.24
Q135408	485233	6821964	Boulder local	1.12	0.5	0.00	0.00	0.00
Q135410	485320	6821987	Sub-crop	3.68	0.5	0.00	0.00	0.00
Q135424	491063	6826910	Sub-crop	1.03	6.0	0.31	0.00	0.01
Q135425	491063	6826910	Sub-crop	6.31	15.0	0.83	0.00	0.01
Q135434	491352	6826984	Boulder	1.19	2.0	0.12	0.00	1.76
Q135437	478816	6826205	Boulder	5.37	3.0	0.00	0.48	0.15
Q135470	483603	6825414	Boulder	1.76	0.5	0.02	0.01	0.13
Q135471	483600	6825423	Boulder	9.61	1.0	0.01	0.00	0.26
Q135472	483609	6825416	Boulder	26.80	3.0	0.01	0.01	0.34
Q135488	485492	6825494	Boulder	198.00	79.0	0.58	4.38	2.59

6.3.4 ABG Zone:

The ABG Zone, located on the West side of the Kovik River, trends NW-SE over an area 2 kilometres long and 800 metres wide (Figure 6.3). The area mainly consists of a sequence of mafic volcanoclastics and fine-grained silicified schist, locally mineralized with massive pyrite clusters along foliation. A fuschite-dolomite schist weakly mineralized in pyrite as well as some schistose metasediments with up to 5% pyrite were observed in the central part of the area. Complex structural patterns suggest three deformation phases. D1 is characterized by a WNW-ESE schistosity (S1) moderately dipping to the NNE. The S1 schistosity has been folded by D2 resulting in tight folding (F2) with an axis plunging gently to the SE. The latest D3 is characterized by a series of normal-slip faults with EW and NE-SW orientation.

Mineralized quartz veins were observed during the 2016 exploration program (Picture 6) in the central and southern part of the area. They cross-cut the schistosity, being mainly oriented NE-SW and moderately to steeply dipping either SE or NW. Their thickness varies between 10 and 30 centimetres (Figure 6.5, Picture 6). The veins contain trace to 1% chalcopyrite with some local chalcocite, which yielded up to 1.23% Cu and up to 0.44 g/t Au. Table 7 summarizes the best assay results from surface rock samples collected in this area.

Table 7: Best assay results from 2016 grab samples collected in ABG Zone

Sample	UTM E	UTM N	Sample Type	Au g/t	Ag g/t	Cu %
P137301	463764	6825619	Outcrop	0.44	25.0	0.54
P137302	463783	6825614	Outcrop	0.34	34.0	0.58
P137327	464050	6825468	Outcrop	0.05	1.0	1.23



Picture 6: Mineralized quartz vein in ABG Zone, sample P137327 returned 1.23% Cu

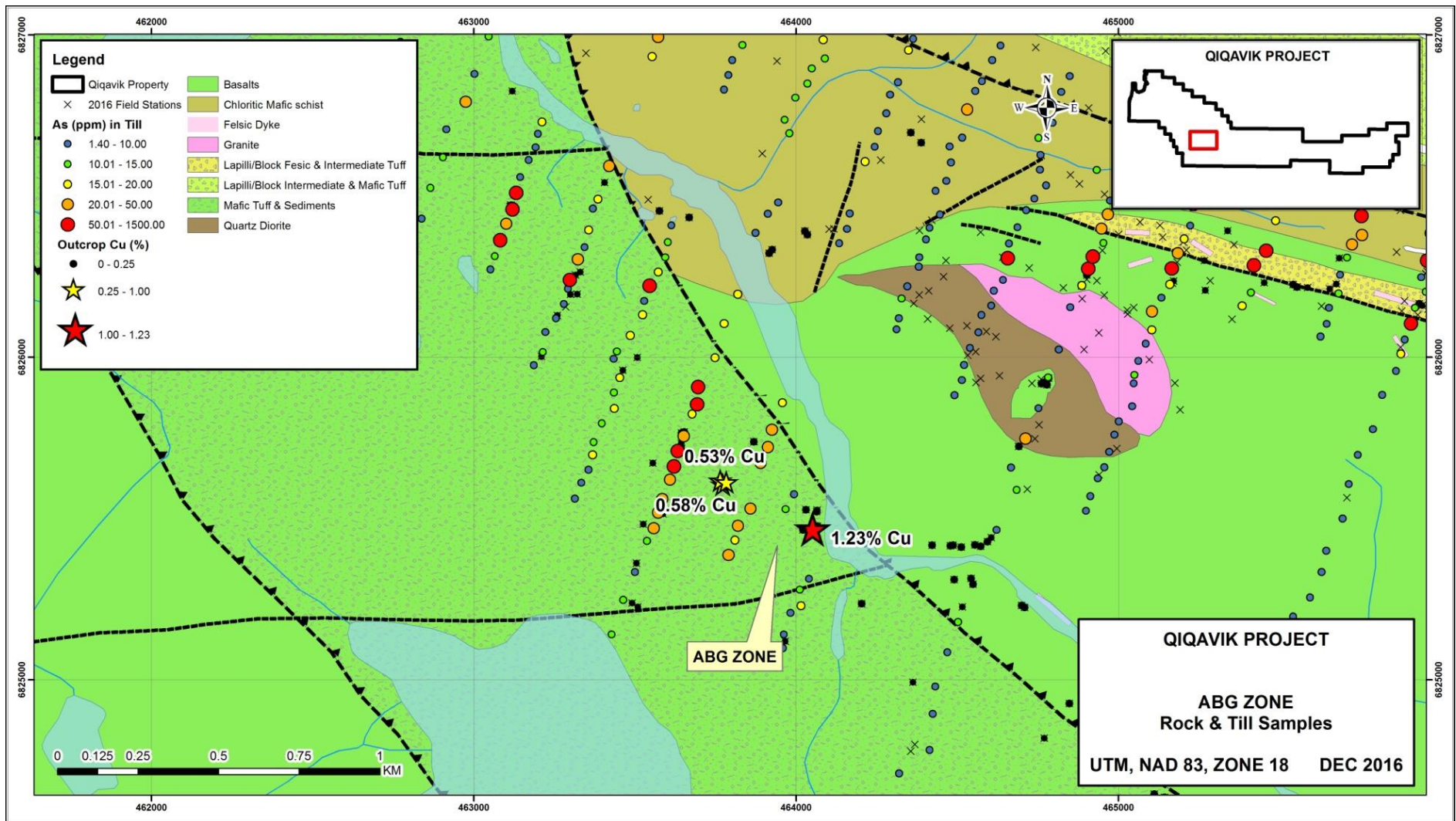


Figure 6.5 Map of ABG Zone with gold distribution in rock samples and Arsenic distribution in till samples

6.3.5 Central Qiqavik

The Central Qiqavik area is located approximately 5 kilometres west of the western limit of the Gerfaut trend, in the central portion of the Qiqavik property (Figure 6.3). Its southern portion consists of thick layer of chloritic mafic schists (Figure 6.6). The strong schistosity is approximately oriented East-West, steeply dipping to the North. A 3 to 4 metres thick (apparent thickness) layer of fuschite dolomitic schist is traced over several hundreds of metres East-West in the extreme south of the area. The central part of the area is characterized by a thick sequence of weakly foliated mafic volcanics, pillow basalts, feldspar phyric mafic volcanics and volcaniclastics are dominant, with local interflow sediments. The northern part of the area is intruded by a fine to coarse-grained, massive to weakly foliated gabbro.

A granodiorite intrusion is present in the western part of the area, between the chloritic mafic schists and the mafic volcanics package (Figure 6.6). This granodiorite is fine to medium grained and generally weakly foliated. Some grab samples collected during the 2016 exploration program in mineralized boulders from this granodiorite returned elevated gold assays (Figure 6.6 and Table 8). These consist of foliated and silicified granodiorite with mineralized quartz veinlets containing traces to up to 5-7% pyrite and local sphalerite. All significant gold assays in this area are from boulders.

Table 8: List of 2016 samples returning highest gold values in Central Qiqavik area

Sample	UTM E	UTM N	Sample Type	Au (g/t)	Ag (g/t)	As (%)	Zn (%)
P137310	476737	6824548	Boulder	11.85	1.00	0.64	0.38
P132265	477022	6824803	Boulder	18.30	8.00	0.02	1.65
P132266	477019	6824796	Boulder	2.68	3.00	0.43	0.11
P132267	477032	6824784	Boulder	0.87	0.50	0.44	0.01
P132274	478104	6823900	Boulder	4.20	0.50	1.42	0.03
P132561	475807	6824873	Boulder	0.59	0.50	0.00	0.00

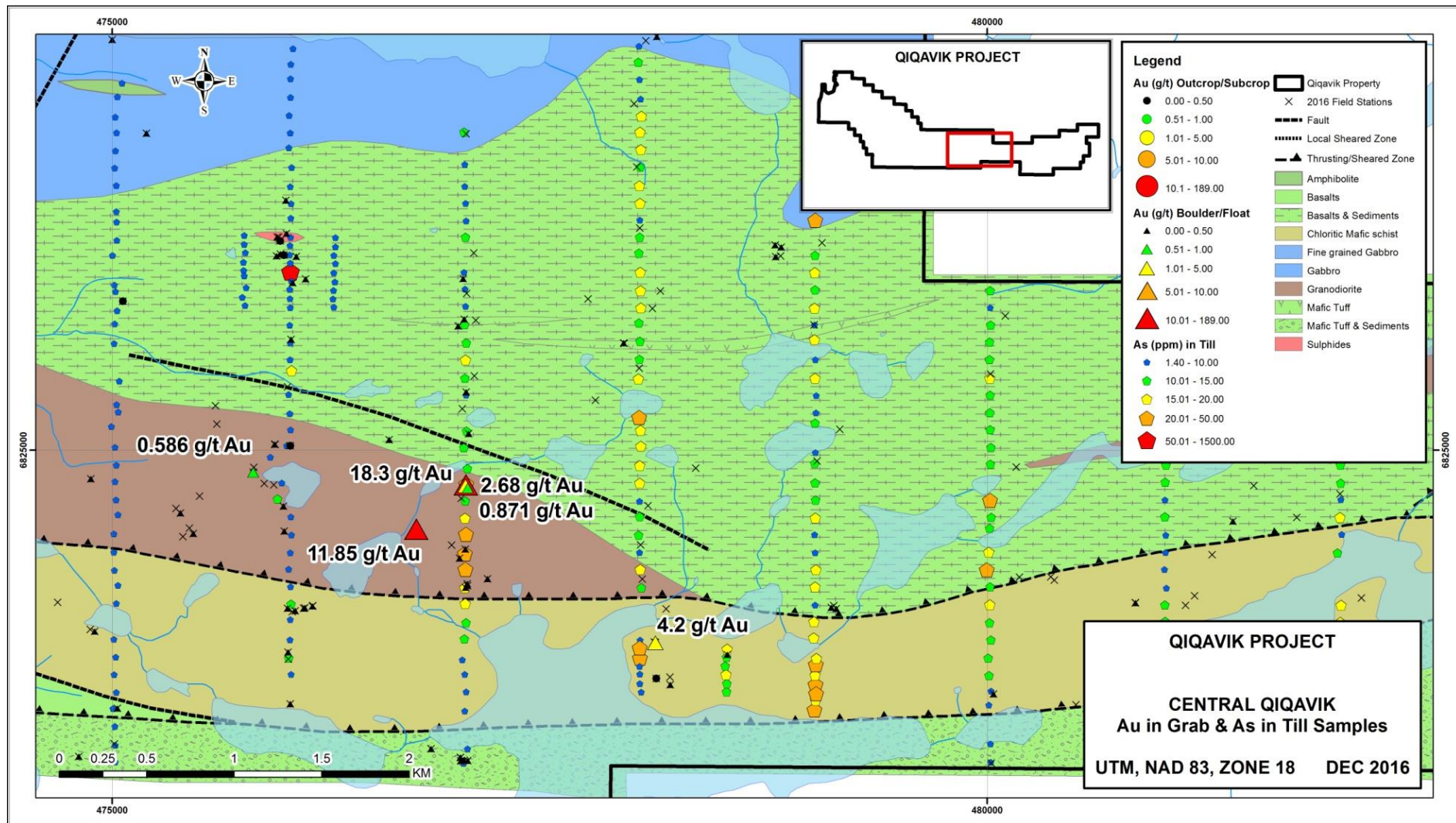


Figure 6.6 Map of Central Qiqavik with gold distribution in surface rock samples and Arsenic distribution in till samples

7- 2016 EXPLORATION

The duration of 2016 exploration program completed by True North Nickel over the Qiqavik property was approximately 30 days from mid-July to mid-August. The program consisted of ground geophysics, drilling, mapping and till sampling.

The geophysical surveys included 313 line-kilometres of ground magnetic surveying, 110 line-kilometres of ground gradient IP surveying and 62 line-kilometres of ground dipole-dipole IP surveying. Magnetic and IP surveys were completed under contract by Abitibi Geophysics, based in Val-d'Or. The location of the various surveys and work completed in 2016 is shown in Map 3.

The 2016 diamond drilling program on the Qiqavik property consisted of 482 metres in 5 holes. In 2016, True North Nickel completed 6 holes for a total of 550 metres. However, hole QK-16-001 was not drilled on the Qiqavik property, but in a small block of claims located 12 kilometres to the southwest. Location of the 5 holes drilled on the Qiqavik property is given in Map 3.

The mapping and sampling program consisted of 5 crews of a geologist and his assistant performing traverses at a one-kilometre line-spacing. A total of 1,799 till samples (1 to 2 kilograms of material per sample collected in frost boils) were collected at 100 metres intervals along the lines, plus some 50 metre spaced in-fill sampling (Map 4). A total of 2,840 field stations were recorded and 617 surface rock samples, 607 grab and 10 channel samples, were collected along the traverses (Map 5). Each crew was equipped with a portable XRF analyzer allowing on-site chemical analysis. In addition, till samples were analyzed with a portable handheld XRF analyzer in order to allow field follow up on the next days.

7.1 Mapping program

The 2016 mapping program was conducted simultaneously with the till sampling program. A total of 2,840 field stations and 617 surface rock samples were described, collected and recorded with the use of portable electronic tablets. The 2016 field program was focused on the central and western portions of the Qiqavik property. Field station, sample recording protocol, sampling protocol and analysis method are described in Section 10. Location of 2016 field stations and surface rock samples is shown in Figure 7.1 and in Map 5.

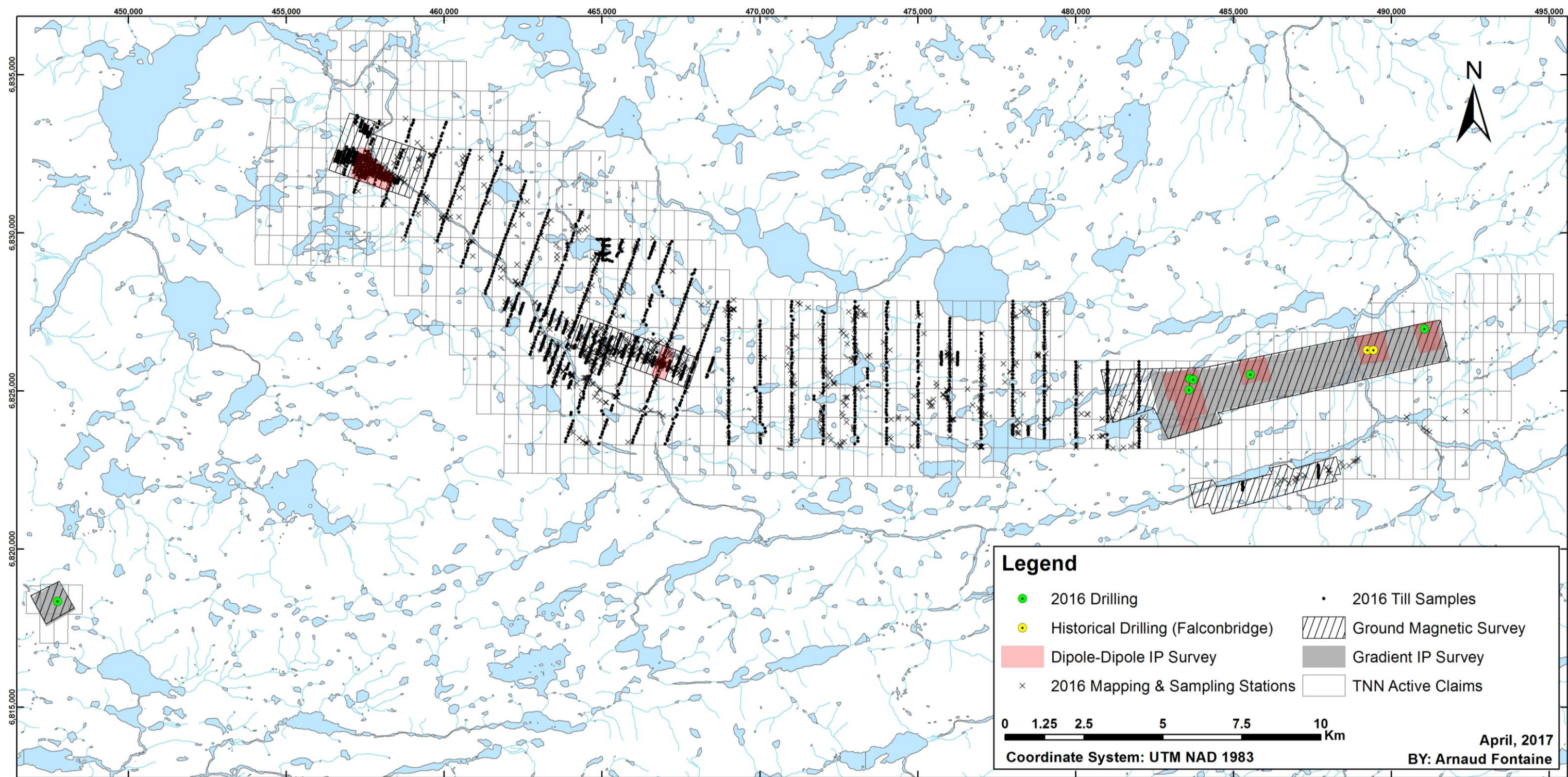
The 2016 mapping program led to the identification and discovery of 4 areas of interest, characterized by rock samples returning anomalous to high-grade Au +/- Ag +/- Cu values associated with anomalies in till samples. The 4 new areas of interest ; Esperance, Aurora, ABG Zone and Central Qiqavik areas, spanning almost 40 kilometres (Figure 7.1), are in addition to the Gerfaut Area which was documented and worked in 2015. Geological setting, mineralization and significant 2016 assays of these areas are described in Section 6.

In addition to the 4 main areas of interest previously described, three isolated surface rock samples collected during the 2016 exploration program returned significant gold assays (Table 9, Figure 7.1). The context of these isolated occurrences is unknown at this time and requires follow up in future field programs.

Table 9: Other significant results from 2016 surface rock sampling

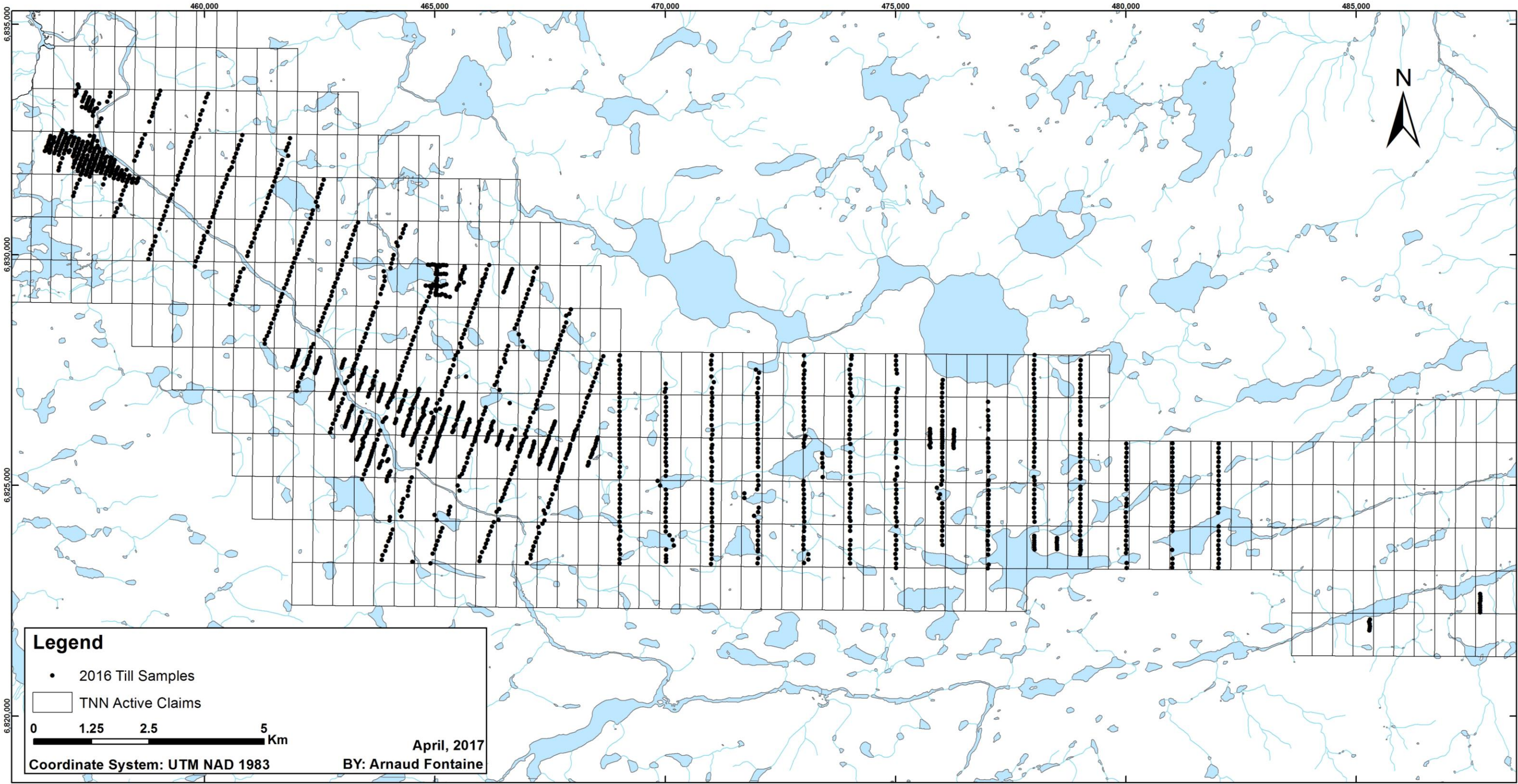
Sample	UTM	Description	Au (g/t)
P137529	465083E 6829527N	Weakly brecciated and sheared diopside and actinolite dolomite, 1-2% disseminated pyrite and locally 10% patchy arsenopyrite	3.05
P137817	467110E 6826196N	Grey quartz boulder with 1% sulphides, in a decametric area containing granitic with some gray quartz boulders (Aurora as source?)	2.93
P132904	466095E 6826582N	Metric boulders of silicified basalt; main WNW-ESE sheared zone is a possible source.	0.51

True North Nickel



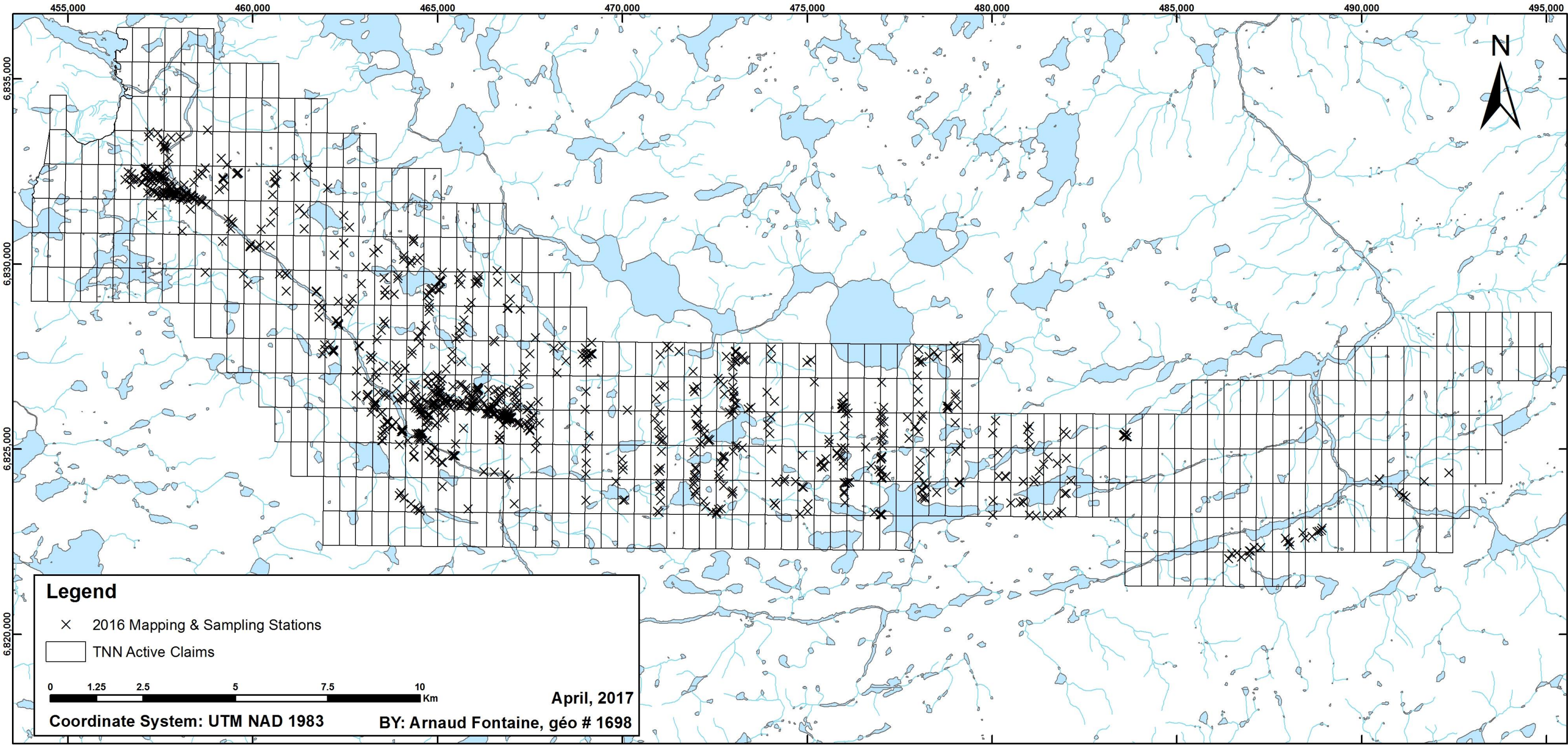
Map 3 2016 Work summary

True North Nickel



Map 4 Tills Map sample

True North Nickel



Map 5 Rock sample

7.2 Till sampling

A total of 1,799 till samples were collected during the 2016 exploration program in the central and western portions of the Qiqavik property. Samples consist of approximately 1 to 2 kilograms of till material collected from frost boils, which is a typical and common feature of the permafrost terrain in the area. Till sampling protocol and analysis methods are described in Section 10.

Based on previous studies (Laforest, 2012; Gauthier, 2015), the main anomalous elements in till that could be associated with gold mineralization on the Qiqavik property include Au, As, Bi, Cu, Pb, Sb, Te, Zn and W. These multi-elements signatures associated with mineralization show anomalies well in lab assay data. However the main parameter used for sampling with hand-held portable XRF instruments during the field campaign was arsenic due to its higher concentration in tills relative to XRF detection limits as compared to other indicator elements. The location of all till samples collected in 2016, with distribution of arsenic values (in ppm), is shown Figure 7.2.

The till sampling survey highlighted 5 main anomalous areas (Figure 7.2) plus numerous isolated anomalies. The main anomalous areas are Esperance, Aurora, the ABG Zone, Central Qiqavik, and the Kovik Felsic Intrusive area.

The 2016 sampling program led to the identification of 4 main areas of interest, characterized by rock samples returning anomalous to high-grade Au +/- Ag +/- Cu values associated with anomalies in till samples. In addition to the Gerfaut Area which was documented in 2015, these include the previously described Esperance and Aurora zones, plus the ABG Zone and Central Qiqavik occurrences, spanning almost 40 kilometres (Figure 7.2).

7.2.1 Esperance Area

As previously described in section 5.3.1, the Esperance mineralized trend assayed up to 20.1 g/t Au in outcrop, 31.9 g/t Au and 10.3 % Cu in boulders and is coincident with a prominent chargeability anomaly trending WNW-ESE extending 1.2 kilometres in length. This mineralized trend is highlighted in the till samples: As (up to 427 ppm), Cu (up to 515 ppm), Au (0.227 ppm), W (up to 3.9 ppm) and Sb (up to 2.56 ppm) anomalies. The Esperance trend is open to the West.

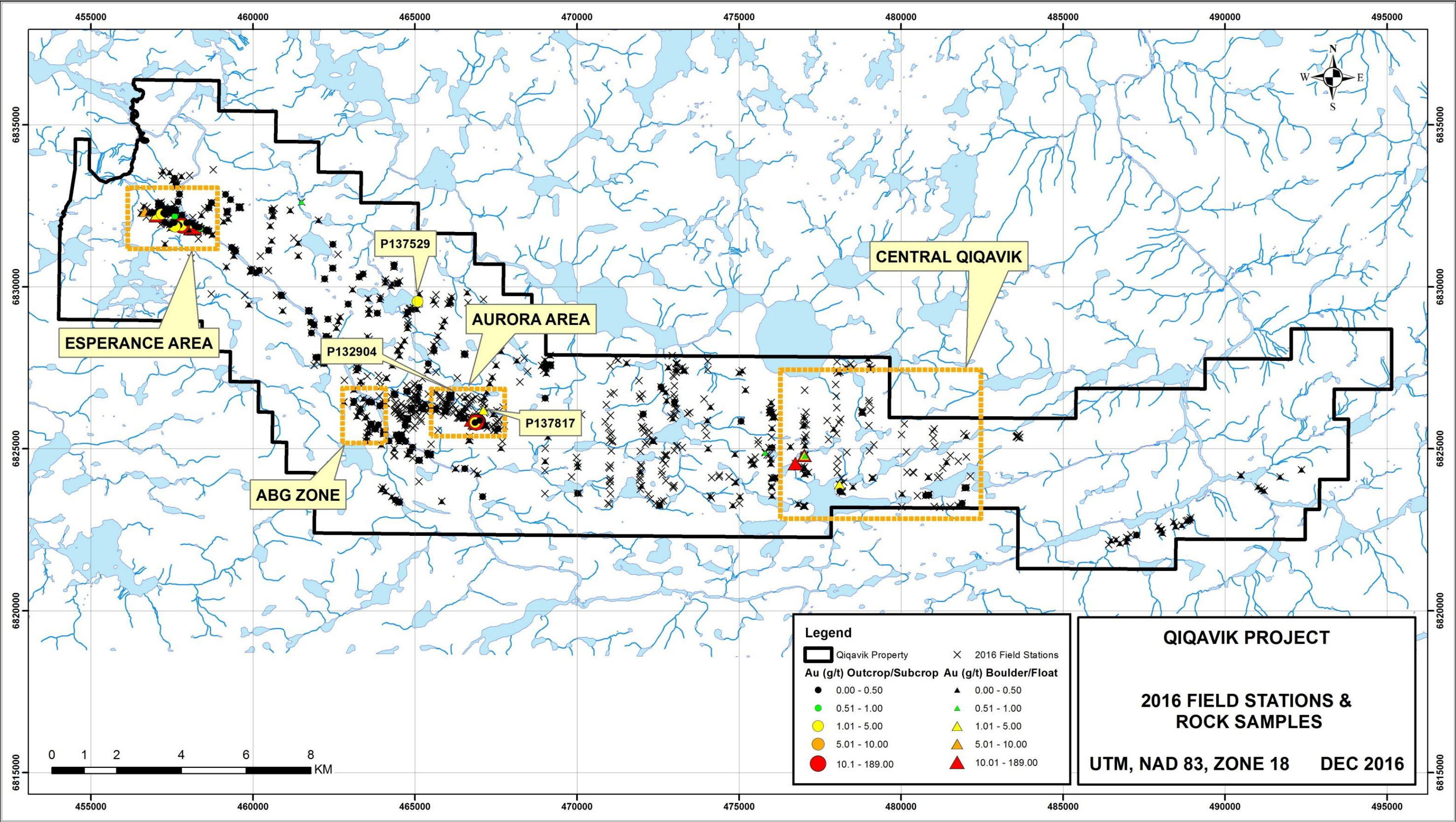


Figure 7.1 2016 Field stations and surface rock samples location map with distribution of gold (g/t) in surface rock samples

True North Nickel

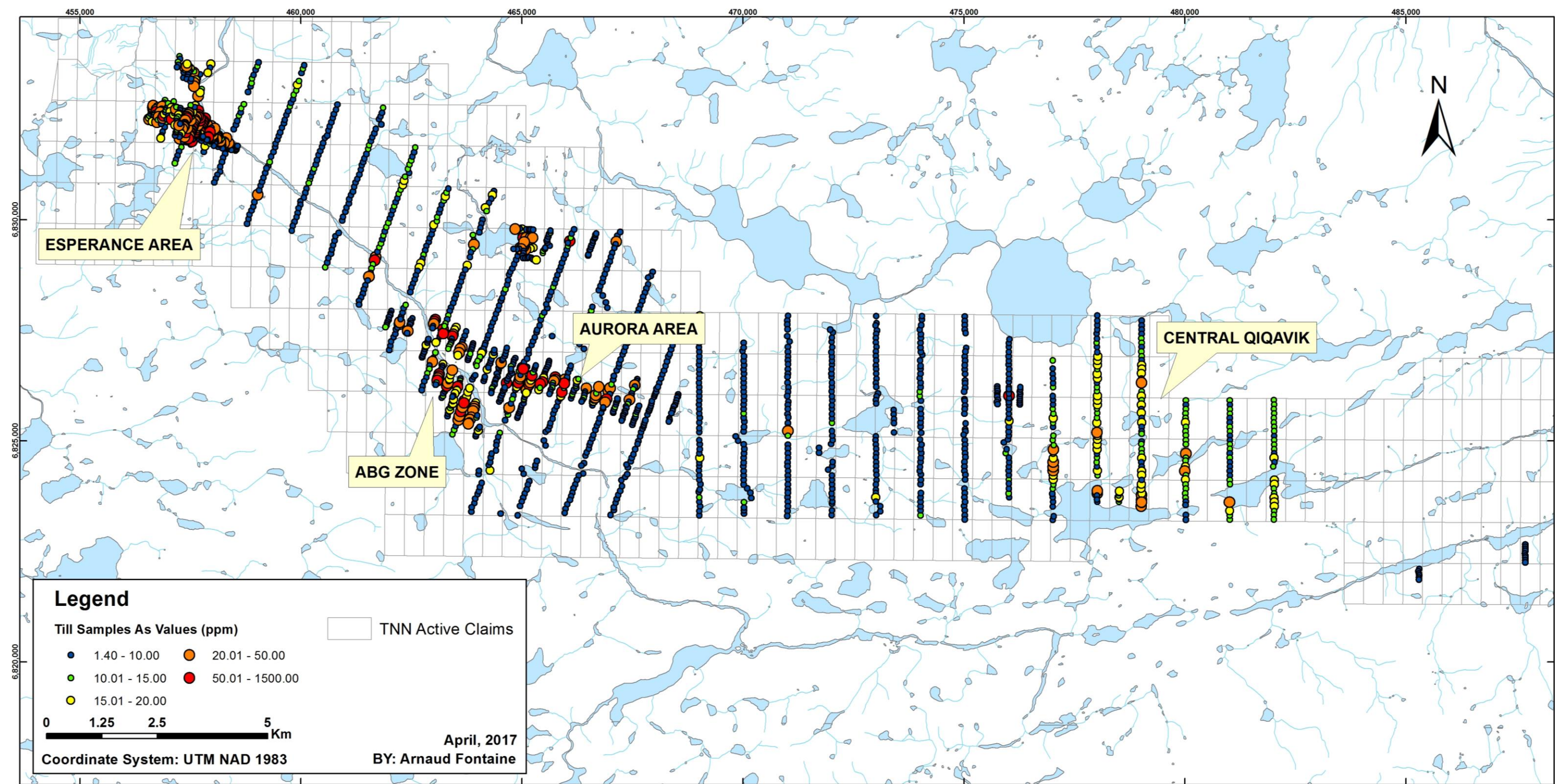


Figure 7.2 2016 Till samples location with distribution of As values

7.2.2 Aurora Area

Two till samples collected approximately 50 metres North to NNE of the Aurora mineralized occurrence (up to 189.0 g/t Au in sub crop and 67.8 g/t Au in boulder, see sections 6.3.2) are anomalous in gold and various other pathfinder elements (S728376 returned 0.42 g/t Au, 438 ppm As, 134 ppm Zn, 3.1 ppm Bi, 1.2 ppm Sb, 6.5 ppm W and 200 ppb Te; and S728854 returned 124 ppb Au and 220 ppm As) (Figure 7.3). These samples are down-ice from the mineralized occurrence.

Many till samples collected west of the Aurora granite are anomalous in gold, with values up to 1.57 g/t Au. Some of these are located near or at the basalt/volcaniclastics-sediment sheared contact zone (Figure 7.3). These anomalous samples are scattered on an East-West trend spanning 2 kilometres. Other anomalous elements are Ag (up to 41 ppm), As (up to 438 ppm), Bi (up to 0.65 ppm), Sb (up to 9.71 ppm), Te (up to 0.2 ppm) and W (up to 15.5 ppm). While the Aurora microgranite is visible at surface in the vicinity of Aurora for 600m, the till anomaly trend which extends to the west may indicate that the Aurora zone is larger than was observed during the 2016 field program.

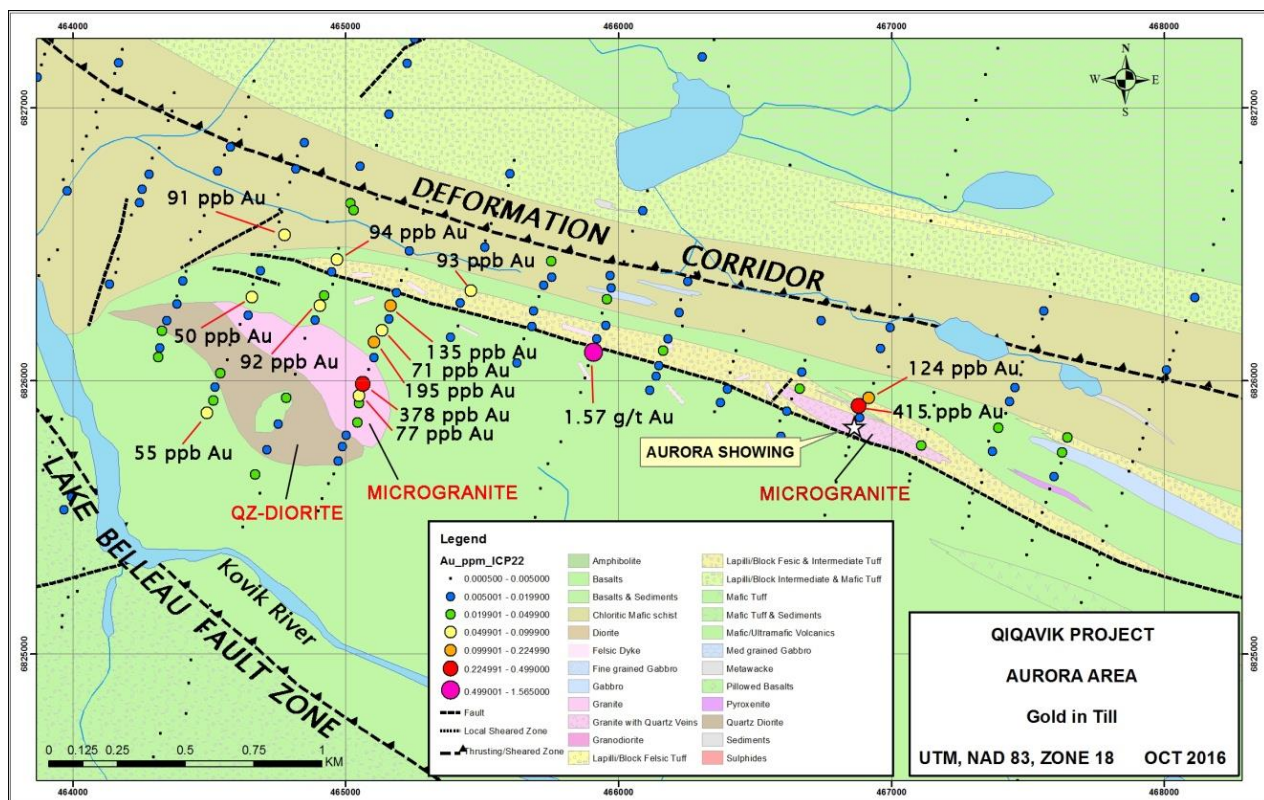


Figure 7.3 Gold distribution in till sampling in the Aurora area

7.2.3 ABG Zone

As described in section 6.3.4, mineralized quartz veins occurring in the ABG Zone yielded up to 1.23% Cu and up to 0.44 g/t Au. The ABG Zone is characterized by significant As anomalous values in till samples with values up to 284 ppm and trending NNW over more than 1 kilometre (Figure 6.5). The context of the discovered mineralization and till anomaly is not well understood at this time and requires further follow up in future field programs.

7.2.4 Central Qiqavik

The Central Qiqavik area is located approximately 5 kilometres west of the western limit of the Gerfaut trend, in the central portion of the Qiqavik property. Its southern portion consists of a thick layer of chloritic mafic schists (Figure 6.3). The strong schistosity in the central part of the area is characterized by a thick sequence of weakly foliated mafic volcanics, pillow basalts, feldspar-phyric mafic volcanics and volcanoclastics, with local interflow sediments. A granodiorite intrusion is present in the western part of the area, between the chloritic mafic schists and the mafic volcanics package (Figure 6.6). Some mineralized boulders from this granodiorite returned elevated gold assays (Figure 6.6 and Table 8). These consist of foliated and silicified granodiorite.

As described in section 6.3.5 of this report, some grab samples collected in mineralized boulders returned up to 18.3 g/t Au in the Central Qiqavik area. This area returned an overall elevated As background in till, with highest As values concentrated in the southern part (Figure 6.6). Weakly anomalous Au and Sb values are also detected.

7.2.5 Kovik Intrusive

The Kovik granitic intrusive, approximately 2 kilometres West of Aurora and just to the North of the Kovik River (Figure 7.3), consists of 2 phases of granite intruding basalts. It extends over 1 km East-West and 540 metres North-South. A fine-grained granite lies in the northeast part of the intrusive while a quartz diorite lies in its southwest part.

Gold anomalies in till were detected in association to the Kovik granitic intrusive, both North-East of the intrusive and along its northern contact with basalt, extending over 500 metres WNW-ESE (Figure 7.3). Till sample S728677, collected above the granite, returned 0.38 g/t Au and adjacent till sample S728676 returned 77 ppb Au and 110.5 ppm W. A sample taken in the south-western part of the Kovik intrusive, hosting a quartz diorite with disseminated pyrrhotite-pyrite-chalcocopyrite-sphalerite (sample P132863) returned an anomalous gold value of 118 ppb.

7.3 Drilling

The 2016 drilling program and related results are summarized in Section 9 of this report.

7.4 Ground geophysics surveys

The 2016 geophysics ground survey report was completed by Abitibi Géophysique on October 2016, #16N035, in two volume. The title is: GPS-positionned ground Magnetic field and Resistivity / IP (Gradient & Dipole – Dipole) surveys.

7.5 Remote sensing data

The lack of trees and overburden cover on the Qiqavik property, specifically the most western part of Qiqavik, results in a large surface area of bedrock and sub-crop exposed at surface with minimal interference of overburden coverage. Given the very short weather window of July/August where there is no snow for surface work (mapping & sampling), remote sensing data is a necessity to identify outcrop and plan summer work.

Multi-spectral signatures captured in remote sensing data can be used to identify mineralized rock types and thus target areas for the summer program. This can be used in conjunction with DEM data to identify structures and other features which may be related to mineralization and thus define targets for follow up in subsequent field programs. Qiqavik is the ideal setting for the application of remote sensing data which is essential for planning an efficient program and a significant aid in targeting.

Remote sensing data was purchased from a commercial satellite which passes through Nunavik periodically. To be able to obtain high quality data, the satellite must pass over the area of interest several times on days with minimal clouds. Data was collected over the Qiqavik property through several fly-bys and stitched together to obtain the clearest, cloud free data over the Qiqavik Property.

7.5.1 Remote Sensing Data

Good quality remote sensing data over the Qiqavik Property was acquired. The multispectral and DEM data used in the study are summarized in Appendix 4.

The remote sensing data sets/products will be used for:

- Multispectral data can be used in conjunction with known mineralization to identify other areas with similar spectral characteristics, with the idea being that a similar spectra may indicate similar mineralization in underexplored or un-explored areas covered by the data.
- High Resolution World View 2 data, with 50cm resolution can be used to look for quartz boulder fields. Quartz boulders and white stand out well in plane light compared to the tundra terrain on Qiqavik. This could identify further mapping stations/targets to visit in subsequent field programs.
- DEM data can be used in the detailed extraction/interpretation of the lineaments (faults, folds, contacts and fractures). The Qiqavik property is a high grade gold exploration project, gold deposits are frequently structurally controlled or influenced. Identifying key structures could generate, mapping / sampling targets associated with structures, and or refine drilling targets. Trends. In more advance years, DEM data will be needed to accurately plan and target drill holes from surface.

7.5.2 East Qiqavik (The Gerfaut Block)

The first part of this project was dedicated to the processing of one Worldview II Scene, along with its DEM, to extract all structural informations. The second part focuses on identifying new targets using multispectral image and soil geochemistry. The first phase of work was completed prior to the 2016 field season.

7.5.2.1 Structural Analysis

A lineament is a linear distinctive feature, whose parts show a rectilinear and/or curvilinear correlation in two dimensional space. Most likely, it is a surficial and/or sub-surficial expression of geological features. Thus, the detection of lineaments has an important significance in geology. Such features can represent contacts, faults, folds or fracture zones and can signify a favorable environment for ore deposits. Interpreters typically encounter exposed or hidden lineaments. The exposed lineaments are readily identifiable by their geomorphologic expressions. The hidden lineaments are indirectly recognizable by their subtle influence/control of certain physiographic features.

Spatial Density or Stress of Lineaments analysis captures identified quantities of some phenomenon and spreads them across the surrounding surfaces based on the quantity that is measured at each location and the spatial relationship of the locations of the measured quantities. Therefore, density surfaces show where

the point and/or line features are concentrated/stressed. In our case, the input lines features are the lineaments interpreted from satellite data, while the input point features are representing the intersections of the interpreted lineaments. Since both points and lineaments do not have any assigned numeric value, by calculating density, the created surfaces show the predicted distribution of the lineaments density/stress throughout the study area. However, the output surface data has the values assigned in accordance with the intensity that is measured at each point/line location and the spatial relationship of the locations of the measured intensities. The resulting high value of density/stress means an intense structural (tectonic) fabric in the immediate area, while low value signifies modest structural (tectonic) fabric in the close neighborhood.

The Worldview II Natural Color Mosaic Scene was merged with the DEM and enhanced for edge detection. The image was then uploaded into a specialized software mainly used by Radiologists for lineament detection. Nothing was added or removed manually. The result was converted into a vector file where all the lineaments were converted into lines. For each lineament, a set of coordinates were assigned to the start and to the end points. Values corresponding to the Bearing and the Length were then calculated from these coordinates. Some of the high density lineament areas (Figure 7.4) are co-incident with observed structures in the filed visit, at the time the relationship between lineament densities (as shown in Figure 7.4) in relation to mineralization (mostly boulders in this area) is not known.

7.5.2.2 Targeting using multispectral image

A Landsat Scene acquired during August 2015 was downloaded from USGS and calibrated for sensors and atmospheric conditions. The Scene is cloud free and presents the vegetation conditions at its peak. The classical geobotanical hypothesis is that vegetation cover can be controlled by soil geochemical composition in terms of its density, chlorophyll concentration, diversity and humidity content. A 50 cm pixel size is too small to hold that concept but a multispectral 28.5 m pixel provided by Landsat will present all that information. The five largest 2012 till anomaly outlines (Figure 7.5) were used as individual training sites since they are known to be associated with mineralization. We have then selected 5 of the 6 anomaly zones and used them as individual training sites (choosing only pixels surrounding high values of surface grab samples) for spectral characterization and used them for regionalization. This means identifying pixels having the same spectral signature as those of the training sites. These new sites will be considered for future potential targets. This technique will generate 45 groups of targets.

Spectral Angular Mapper algorithm was used to establish the Spectral Anomaly Signature and to create a "Rule image" where all the pixels have received a calculated value corresponding to the likelihood of being similar to the spectral signature of a particular training site. A threshold corresponding to a 99% similitude was applied; only pixels having that likelihood and above were kept. A value of 80% had to be applied for Zone 4 since no pixels were presenting a higher similitude. The resulting targets are shown in Figure 7.5. Some of the targets identified with this method show some correspondence with later (2016 field season) discovered mineralization, for example the Type 4 anomaly in the area of Esperance (Figure 7.5).

For visual purposes, a thematic image of 5 classes based on an extended vegetation index calculation was calculated (Figure 7.5). Blue corresponds to "no vegetation", and mostly represents bodies of water, Yellow to "low vegetation" and 3 shades of green going darker as vegetation density increases. Other than correlating well with the DEM, the product didn't offer any additional targeting information. This is likely because number of infrared bands offered by Landsat is limited.

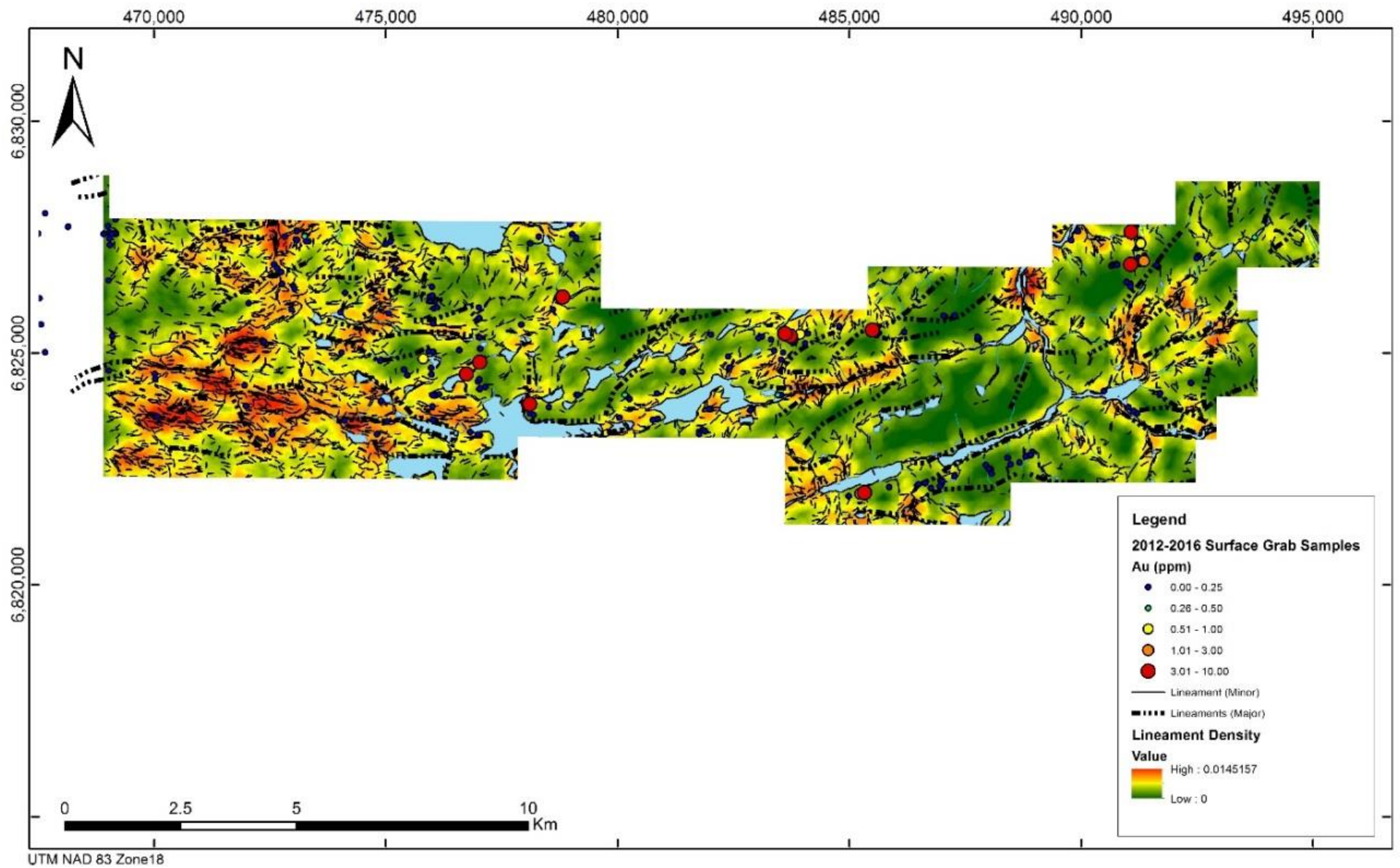


Figure 7.4 Lineaments and Lineaments density from Landsat (Bold) and from WV scenes

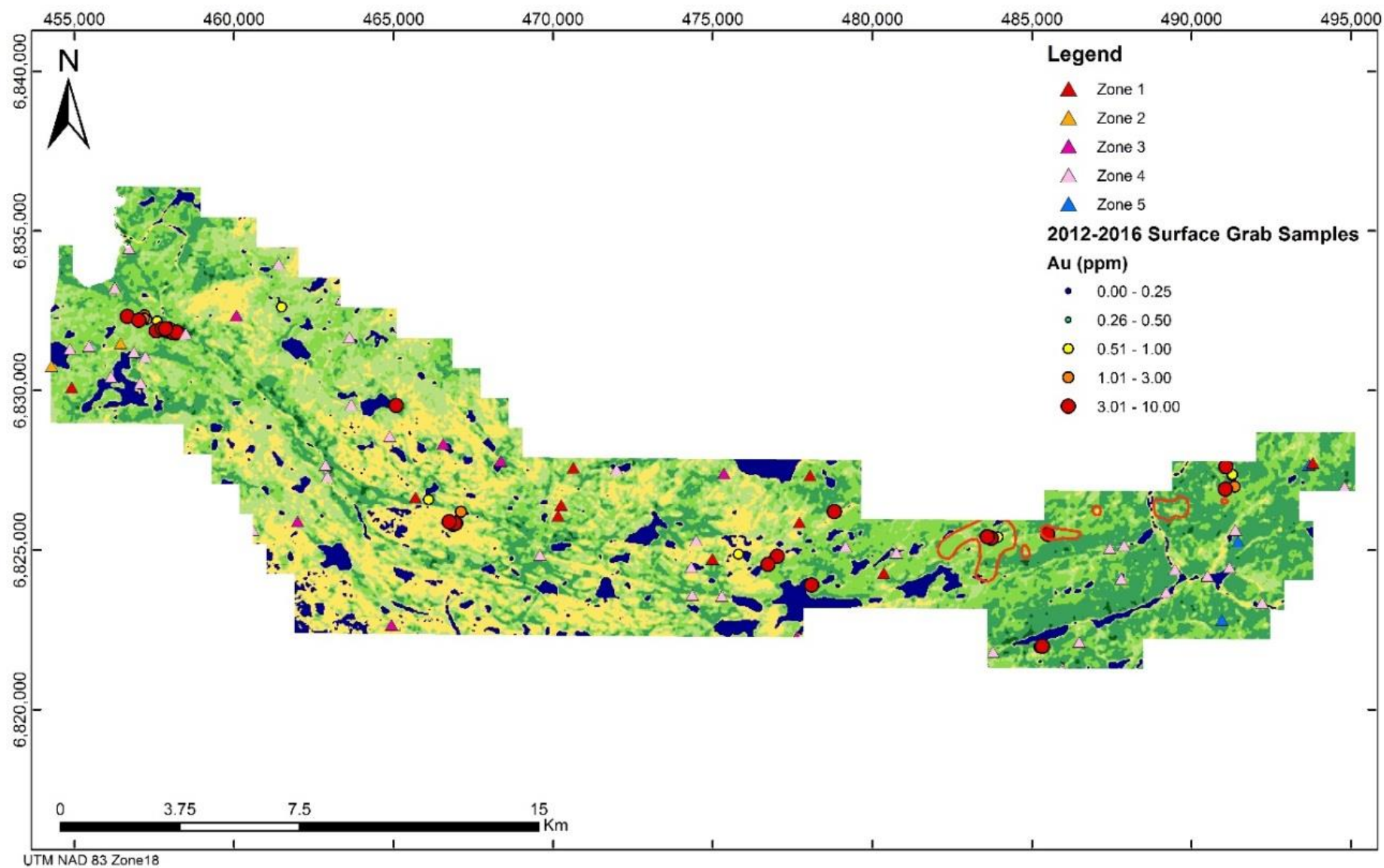


Figure 7.5 Multispectral Landsat Targets on Vegetation Index

(Blue =water, no vegetation, yellow=some vegetation, dark green =densest vegetation)

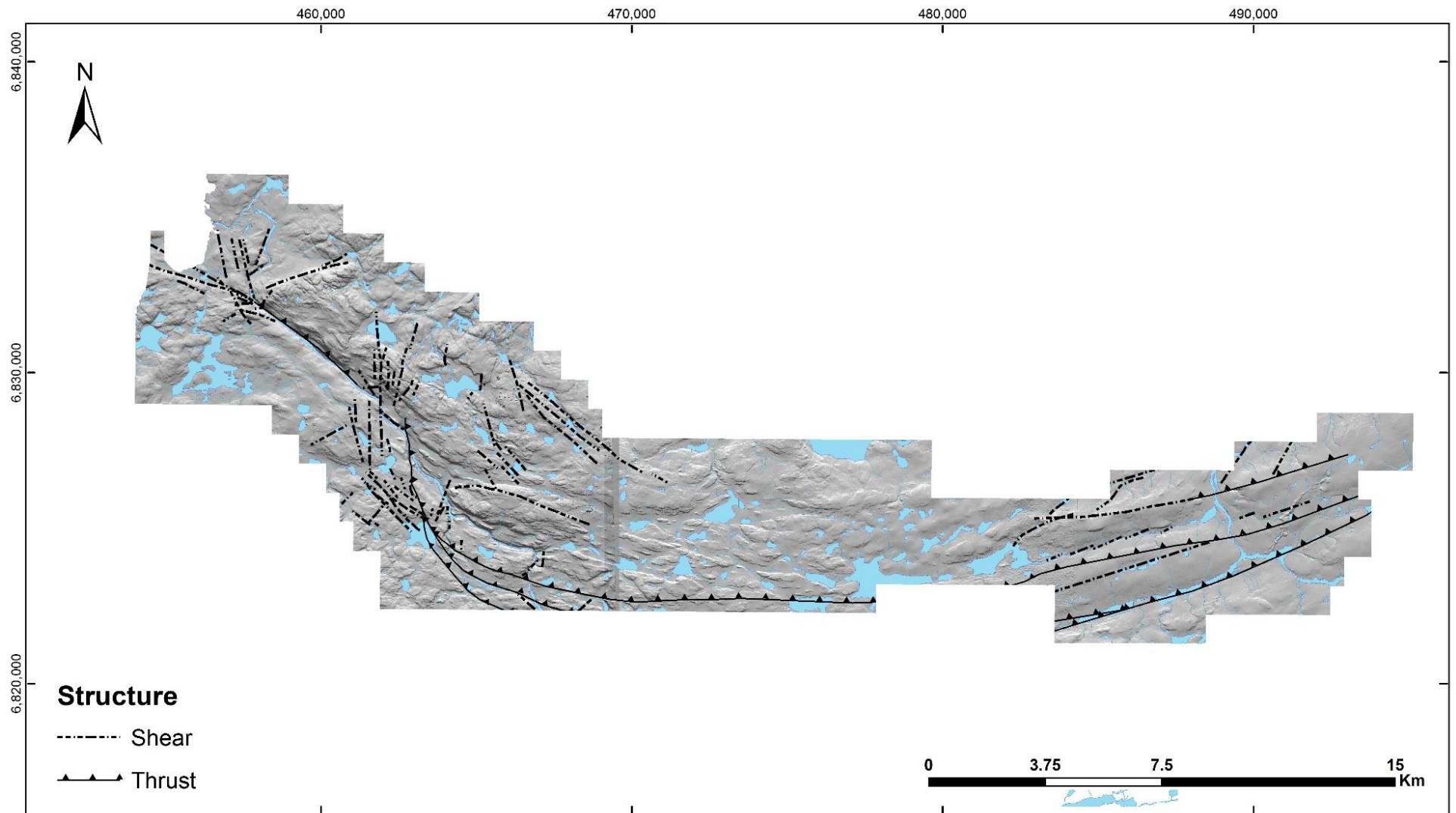


Figure 7.6 Map of DEM data on the Qiqavik Property with the resulting structural interpretation.

7.5.3 West Qiqavik

The Qiqavik property was expanded westward in early 2016 to the current footprint shown in Figure 7.6. High resolution DEM and plane light high resolution images were used post field Season, in conjunction with data and samples collected during the 2016 field season to propose targets for follow up in the 2017 field season.

The DEM data and high resolution satellite imagery was used for a structural interpretation. To generate a structural framework for the property, lineaments were extracted from a high precision digital elevation model (DEM) using various hill shading directions and angles. These lineaments were then superposed to various data layers (magnetic and EM surveys, geology, terrain) to validate their value as geologically sound events and then interpreted as a whole. The interpreted structures are shown in Figure 7.6.

There are also several satellite areas around Esperance which generated till anomalies identified post field program (Figure 7.7). The Esperance North target area 1 (Figure 7.7) is an arsenic anomaly coincident with a structure. The Esperance North Target area 2 is a 1.2km strike length along a structure with a corresponding till anomaly in gold. This till anomaly has significantly less As compared to the Esperance zone and target 1 and was thus not identified via portable XRF during the field program. Prior to this structural interpretation using DEM data and Satellite imagery, these till anomalies in arsenic and gold were unexplained and thought to be low priority as they appeared to be isolated occurrences. The structural interpretation now shows that these anomalies are associated with a structure which is favorable for Au, Cu mineralization, the satellite areas around Esperance are now considered to be high priority for 2017 follow-up.

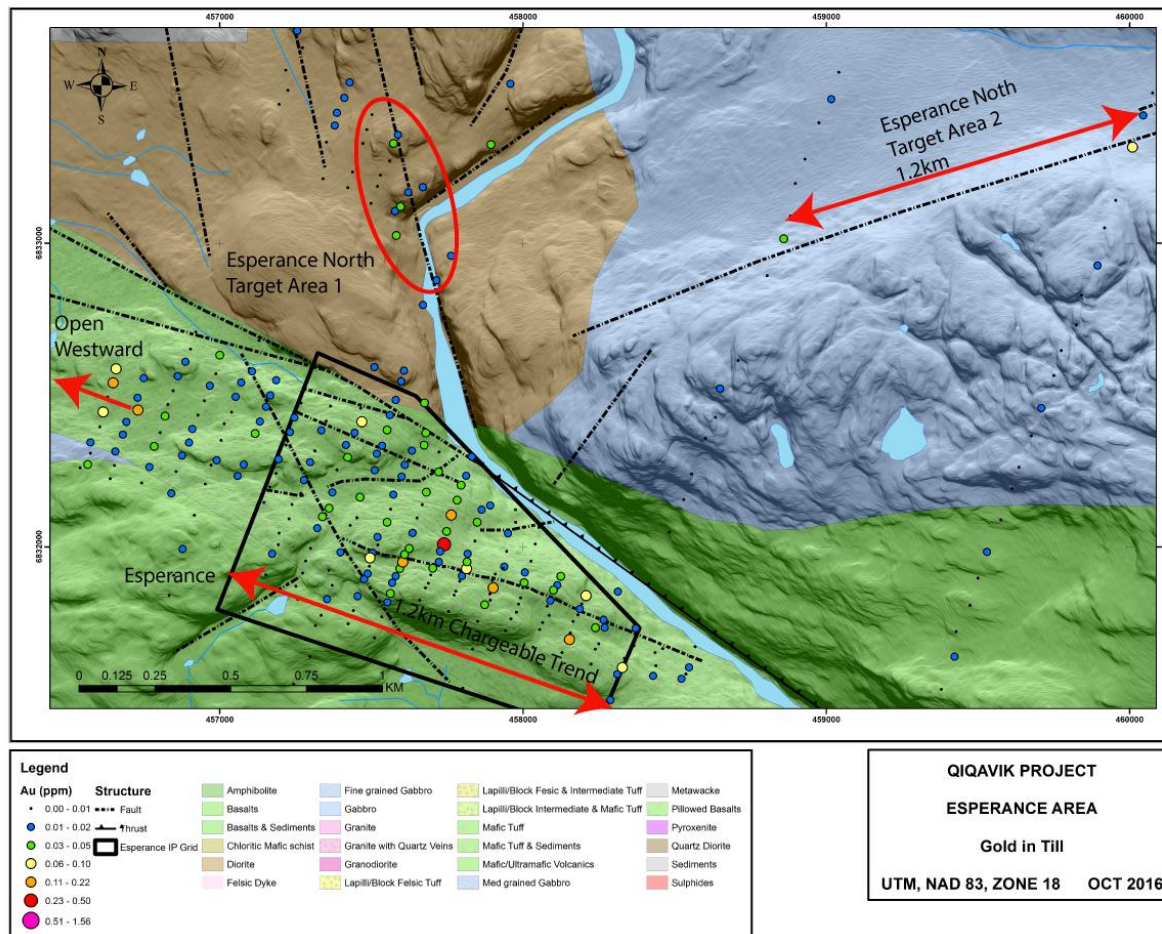


Figure 7.7 Esperance North Target Areas.

Area 1: As-Au Till Anomaly co-incident with a NNE SSE trending structure.
 Area 2: Au, Sb, Te Till Anomaly with Lesser Arsenic

7.6 Geophysics & Exploration interpretation and conclusions

The dipole-dipole IP survey has defined extensive anomalies directly associated with high grade gold at surface resulting in ten high priority targets that warrant drill testing. The IP survey has identified:

- A chargeability anomaly at least 1.2km in strike length at the Esperance discovery which is co-incident with the high grade, sulphide associated gold and copper reported in grab samples at surface which extends to over 1.6km (up to 31.9 g/t Au and 10.2%Cu)
- Multiple large chargeable zones at Esperance (100m to 500m) which are parallel to the main shear zone which were not previously identified at surface due to overburden cover.
- A 400m highly resistive felsic intrusive which hosts high grade gold in quartz veins (up to 189 g/t Au) at the 2016 Aurora visible gold discovery. This 400m lies within a larger 2 km till anomaly which extends to the west of known mineralization at Aurora.

As noted in Section 6.3.1, a 1.6km long high grade gold and copper trend at surface at Esperance is co-incident with a sulphide bearing shear zone. The IP survey has confirmed the chargeability and continuity of this zone over the full extent of the survey for over 1.2km (Figure 7.8) and remains open to the west. The results of the 2016 IP survey at Esperance resulted in the definition of eight high priority targets for future drilling at 400m spaced sections, including targets which may represent additional parallel mineralized and chargeable zones to the north of the main trend not previously observed during 2016 surface mapping due to overburden cover (Figure 7.9).

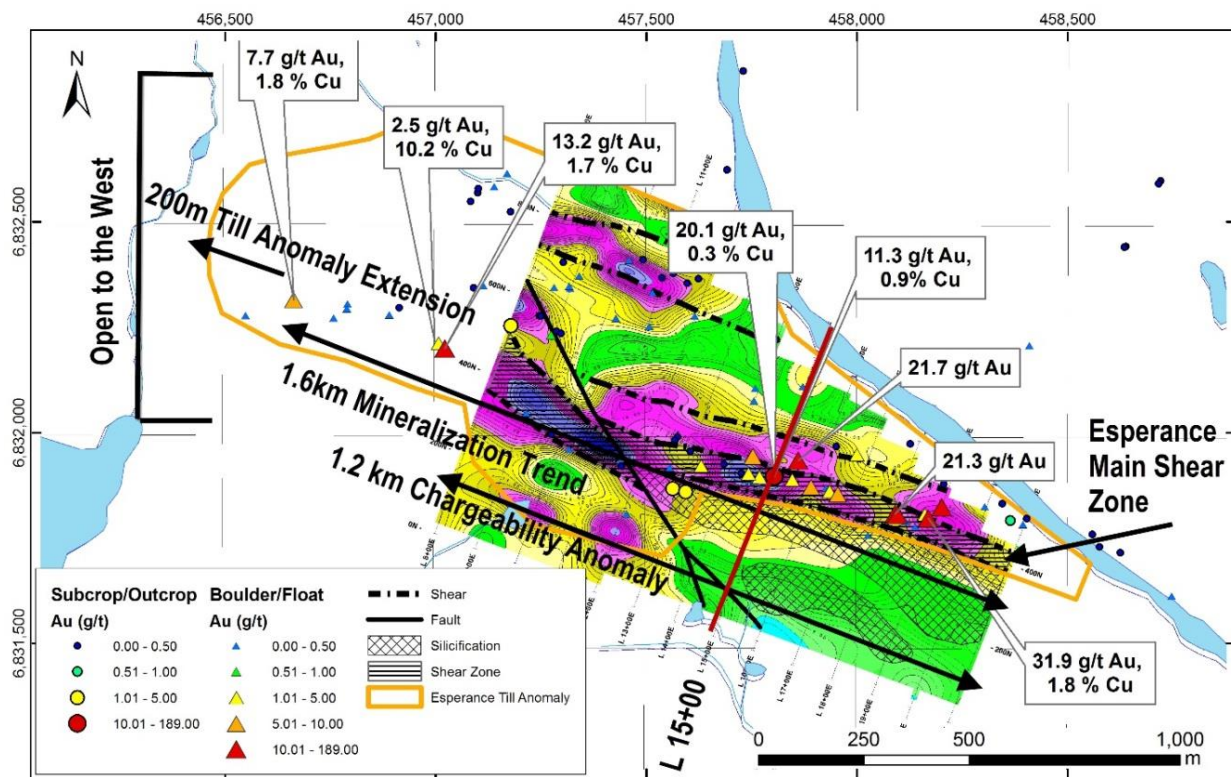


Figure 7.8 Esperance chargeability shown with high grade Au-Cu grab samples from 2016
(Blue is high, green is low). The main mineralized shear zone is associated with a 1.2km long chargeability anomaly and is open to the west.

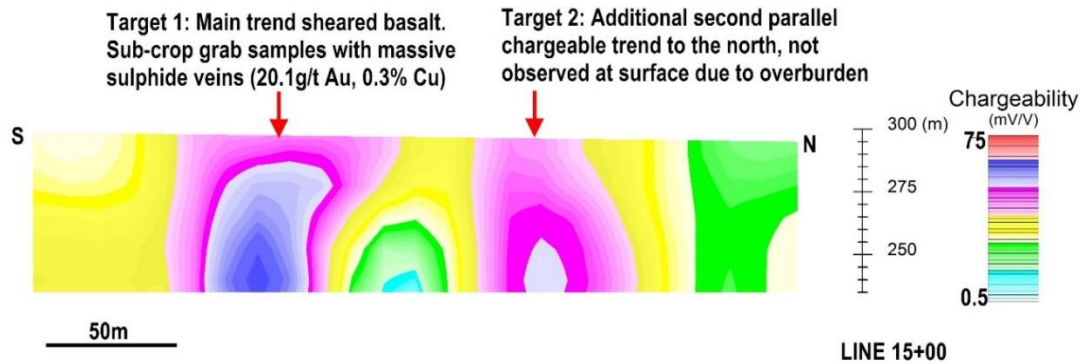


Figure 7.9 Chargeability section (inversion) for Line 15+00 at Esperance with high priority drilling targets shown

Target 1 associated with the 1.2km chargeability anomaly coincident with the Esperance main shear zone and Target 2: a second parallel chargeable zone.

As noted in Section 6.3.2, high grade gold in quartz veins (including visible gold) hosted in a felsic intrusive body at the Aurora discovery which graded up to 189 g/t Au in grab samples and 5.46g/t over 0.45m in a channel sample (Figure 7.10). The IP survey has confirmed the continuity of a resistive body over all five lines of the survey area totaling 400m strike length that is co-incident with the felsic intrusive observed at surface that hosts gold bearing quartz veins. This has resulted in the definition of two high priority targets with moderate chargeability to test the gold veins observed at surface hosted by the resistive body outlined in the IP survey (Figure 7.11). The till anomaly associated with the Aurora showing over the felsic intrusive continues westward for approximately 2km indicating a significant possible extension to the Aurora system (Figure 7.3).

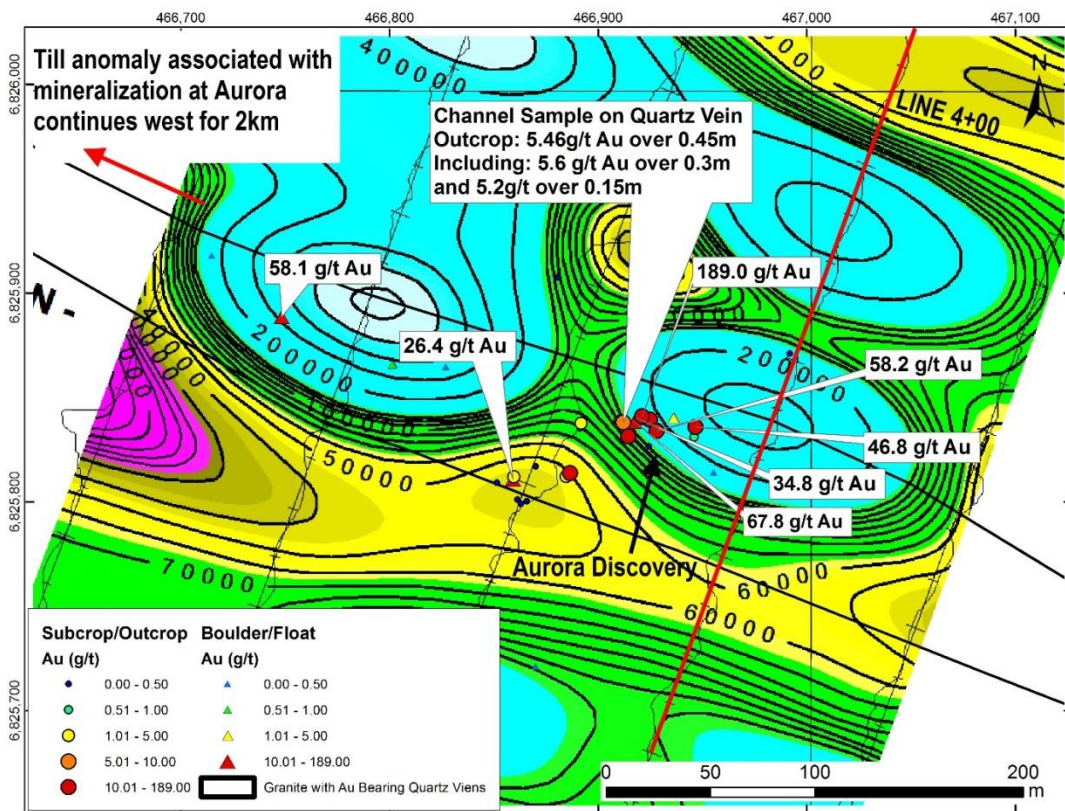


Figure 7.10 Aurora Resistivity shown with high grade Au grab samples from 2016.
(Blue is high, red is low)

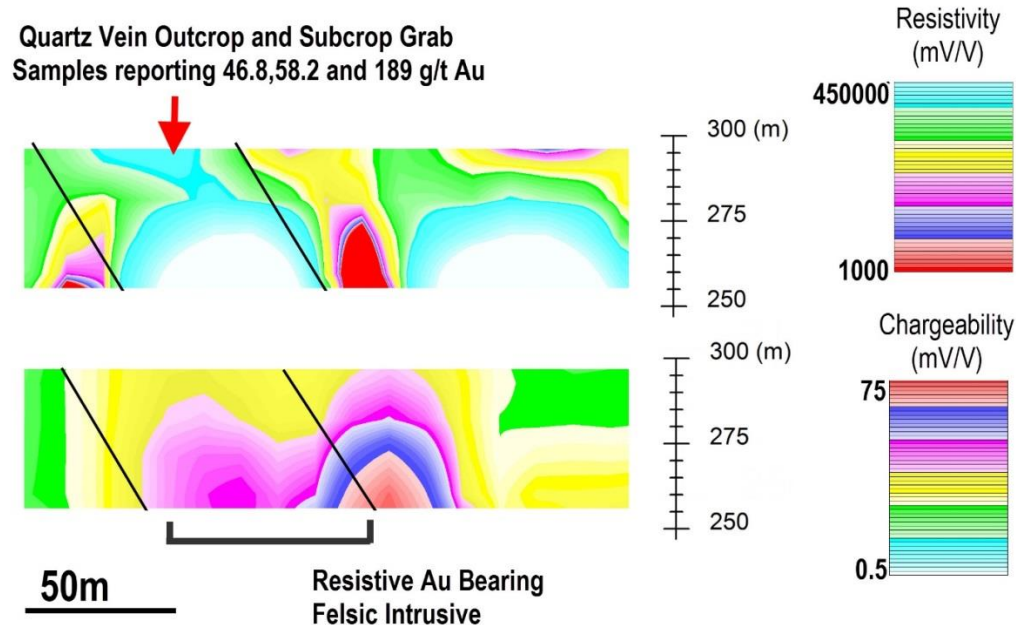


Figure 7.11 Resistivity and chargeability sections (inversions) for Line 4+00 at Aurora with high a priority drill target shown.

In summary, the 2016 IP survey at Esperance and Aurora was successful in identifying at least ten high priority drill targets for future exploration, including a 1.2 km scale chargeability anomaly at Esperance which is known to be co-incident with high grade Au and Cu mineralization at surface. IP sections at Aurora and Esperance show evidence for the definition of additional drill targets. The Esperance km-scale chargeability anomaly associated with the mineralized main trend is open to the West. It is recommended that the IP survey be continued westward to further expand the 1.2km chargeability anomaly.

Till sampling was successful in identifying anomalies in As, Sb, Co, Be, Bi, Te, W that are associated with and resulted in the Esperance and Aurora high grade gold discoveries at Qiqavik. In addition, till sampling has identified at least 3 additional new target zones.

Analysis of property-wide till sampling and mapping results has also yielded several multi-element till anomalies and high quality targets for sampling, mapping and IP follow-up, in addition to those associated with the possible extension of the Aurora and Esperance discoveries, notably:

- The 1.8km NW-SE trending ABG zone (Figure 7.1 & Figure 7.2). After identification by an arsenic till anomaly, the ABG zone was found to host hydrothermally altered quartz veins with chalcopyrite and malachite grading up to 1.23% Cu and 0.45 g/t Au. This poorly exposed zone is a priority target for further mapping / sampling and geophysics (Figure 6.5).
- The Esperance North till anomaly sampling Targets 1 & 2 (Figure 7.1 & Figure 7.2).
- The Kovik River till anomaly (Map 2) were detected both North-East of the intrusive and along its northern contact with basalt and extends over 500 metres WNW-ESE (Figure 7.3) reporting up to 0.38 g/t Au.
- Central Qiqavik (Figure 6.6) which hosts boulders from a large foliated and silicified granodiorite body which returned elevated gold assays (Figure 6.6 and Table 8) up to 18.3 g/t Au, hosted in quartz veinlets containing trace to up to 5-7% pyrite and local sphalerite.

8- DEPOSIT TYPES

The Qiqavik project is at an early exploration stage, exploration work completed over the property is limited and the understanding of the mineralization setting remains limited as well. At present, it is therefore not clear as to precisely what genetic gold depositional model to apply. The size of the property, field observations, mineralized associations and hosts, combined with recent exploration work results may suggest different genetic models for the main various mineralized areas.

8.1 Esperance

The mineralization found in shear zones of the Esperance area is considered epigenetic. Original metal enrichments may be syn-sedimentary or syn-volcanic but were obviously remobilized by tectonic process. Overall, background abundance of Au, Ag and Arsenic is relatively high in all samples, which, combined with the abundance of carbonates, suggest hydrothermal activity. The shear zones are considered to be an interesting gold exploration target.

Granodioritic intrusions proximal to or within the shear zones could be one possible source of fertile hydrothermal fluid. This is suggested by the mineralization's association with strongly altered and locally mineralized felsic and mafic dykes and sills, as well as the presence of abundant quartz and quartz carbonates veins and veinlets.

The presence of shear zones, felsic phyrlic intrusions, carbonate alteration, gold-bearing veins and zones of disseminated sulphides, associated with Au in excess of Ag with an arsenic signature, all suggest a context of orogenic gold hosted in greenstone (Robert et al., 2007). Typical examples of this class of deposits, among others, are Dome, Norseman, Mt Charlotte and Sigma Lamaque mines (Robert et al., 2007). Otherwise, the Au+Cu+/-Co association noted in some semi-massive to massive sulphides and the felsic and mafic sills that could represent syn-volcanic intrusions may conversely relate to an Au-rich volcanogenic massive sulphide (VMS) deposit (Robert et al., 2007). Typical examples of this class of deposits, among others, are Horne, Bousquet 2 and Henty mines (Robert et al., 2007).

8.2 Aurora

Gold mineralization in the Aurora area is hosted in quartz veins and veinlets injected in fine-grained granite. High-grade gold values were obtained in sulphides bearing grab samples as well as sulphide-free (or low sulphide) quartz veins. For example, sample P137296 returned 58.1 g/t Au and P137336 returned 58.2 g/t Au while both samples only contain trace amounts of sulphides (0.32% S and 0.13% S) and pathfinder elements (<100 ppm of Ag, As, Bi, Cu, Pb, Sb, Zn, W). These observations indicate the presence of free gold, which is confirmed by the presence of visible gold in two grab samples (P132942 with 34.8 g/t Au and P137294 with 20.8 g/t Au).

Mineralization hosted in parallel quartz veins and veinlets presents similarities with sheeted vein systems in felsic intrusive systems, while elemental association with anomalous As, Bi, Sb, and W may further suggest intrusion-related mineralization (Robert et al., 2007). Conversely, the genetic relationship between the mineralization and the granitic intrusion is still to be confirmed, since quartz veins invading the intrusion may be a result of external factors such as variable rock brittleness, which could then relate to an orogenic gold deposit.

8.3 Gerfaut

Based on a petrographic study (Gauthier, 2015), mineralization in the Gerfaut area is interpreted as a metamorphosed gold-bearing low-sulphidation epithermal deposit. The interpretation is based on the presence of non-ferrous carbonates, potassic feldspar, and tremolite assemblage, plus the disseminated sphalerite, galena and chalcopyrite. The gold mineralisation was hosted by non-deformed volcanic rocks, which excludes the orogenic, shear hosted model.

Typical examples of this class of low-sulphidation epithermal deposits, among others, are Hishikari and Round Mountain (Robert et al., 2007). The Gerfaut disseminated polymetallic mineralization should be associated with chargeability anomaly which could be detected by induced polarization, as well as from As-

Au-Cu-Pb-Zn multi-element signature captured through geochemical sampling and assaying of tills collected from frost boils.

9- DRILLING

Limited drilling has been completed on the Qiqavik property. In 1996, Falconbridge Ltd completed a 325-metre drill program in 2 holes, described in Section 4 (Exploration History) of this report.

In 2016 True North Nickel completed a 550-metre drill program in 6 holes, QK-16-001 to QK-16-006 (Table 10). The drilling program focussed on the Gerfaut Area, in the Eastern part of the Qiqavik property (Figure 9.1) to test IP anomalies defined in the early stages of the 2016 program. Hole QK-16-001, for 68 metres, was drilled on a small block of claims located 12 kilometres to the southwest of Qiqavik while holes QK-16-002 to QK-16-006 are on the main Qiqavik property. Drilling operations were completed using a helicopter-portable drill rig under contract with Major Nuvumiut from Rouyn-Noranda, which is a partnership between Major Drilling and Nuvumiut Development.

Table 10: Summary of 2016 drilling (coordinates in UTM, NAD 83, zone 18)

Hole Number	Northing (Metres)	Easting (Metres)	Elevation (Metres)	Azimuth (Degrees)	Dip (Degrees)	Depth (Metres)
QK-16-001	6818337.3	447748.6	379.6	216.00	-50	68
QK-16-002	6825384.7	483615.5	432.2	346.6	-50	92
QK-16-003	6825354.4	483724.6	431.7	346.4	-50	35
QK-16-004	6825031.8	483589.5	439.8	168.5	-50	135
QK-16-005	6825513.9	485526.0	444.0	168.0	-50	164
QK-16-006	6826958.6	491046.8	426.8	167.0	-50	56
Total metres						550

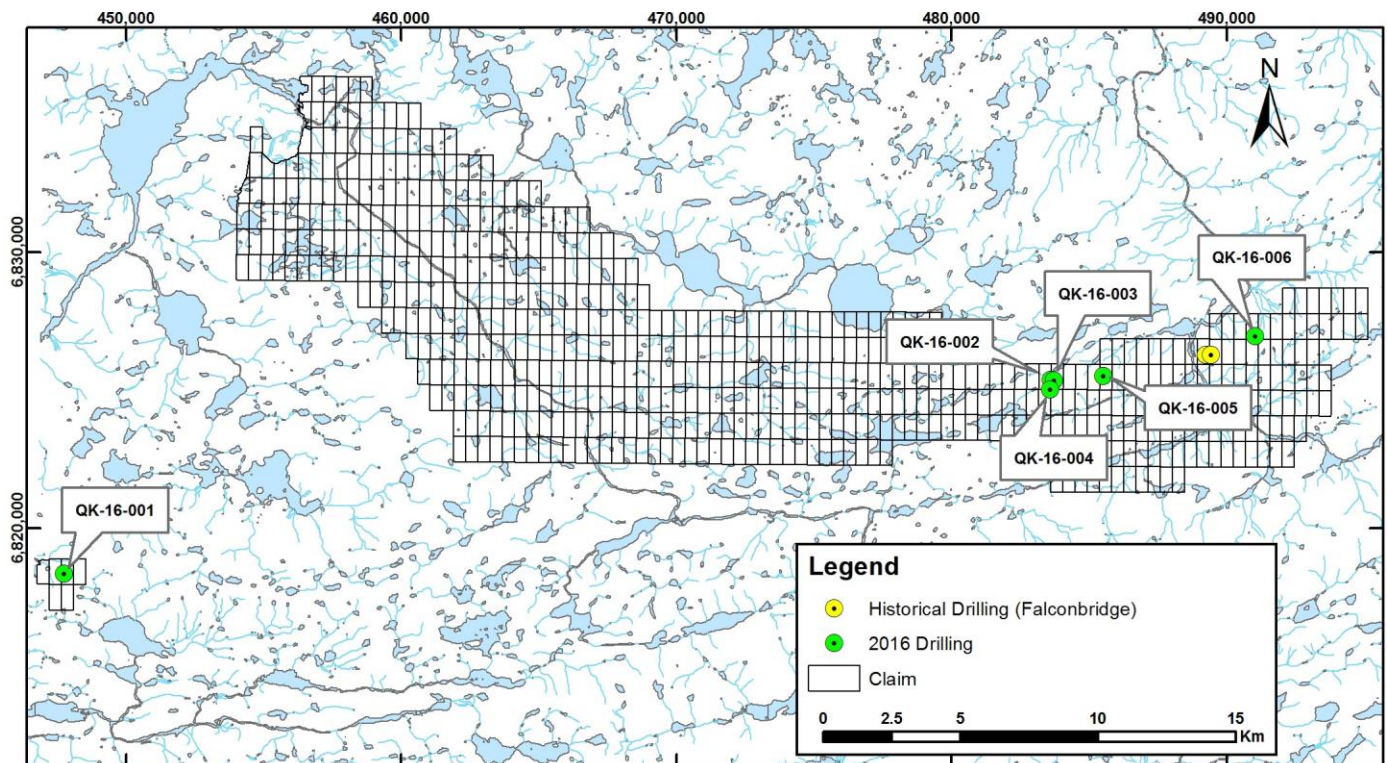


Figure 9.1 Location map of 2016 drill holes

9.1 Drilling methodology

Drill holes sites were marked in the field with wood pickets at predetermined locations using a differential GPS and the Mazac Smart Aligner Tool. Survey of collar location and azimuth/dip were measured with the use of differential GPS and the Mazac Smart Aligner Tool once the drill hole was completed. Drill core was oriented in order to collect structural information.

Diamond drilling was carried out on a 24-hour basis. Upon completion of each hole, drill sites were inspected to ensure cleanliness and pictures were taken before and after drilling. Drill holes casings were capped and identified. The core was transported by helicopter to Chukotat Camp, where logging and sampling were conducted. Drill core is currently stored at the Chukotat Camp core yard, stacked on pallets.

9.2 Logging procedure

Logging procedures were conducted according to usual industry practice. Recorded data included core length, RQD, core box numbering and geological information such as lithology, alteration, structure and mineralization. Data, including sampling intervals, were captured in DH Logger software. Sampling intervals were defined by lithology and abundance of mineralization with a minimum length of 0.5m and a maximum length of 1.5m. Sampling identification tags were left in the boxes. Pictures of complete core were systematically taken and archived.

Once logging was completed, the core boxes were moved to a core rack sorted by the core boxes number and ultimately moved in the core saw room for sampling.

9.3 2016 Drilling results

Graphic cross-sections of each drill hole completed by True North Nickel in 2016 are provided in Appendix 5. Drill holes aimed at testing IP anomalies defined in the early stage of the 2016 field program and priority was given to anomalies coincident with mineralized boulders.

Drilling returned some significant anomalous gold values (Table 11), but the source of the gold-bearing boulders in the Gerfaut Zone has not been identified. Consequently, the source of the boulder remains to be drilled. In addition, 2016 drilling faced several technical challenges and 3 of 6 holes did not reach the intended target and consequently those targets remain untested.

The most interesting drilling results were from QK-16-001 between 25 and 30 metres, where the zone yielded 1.07 g/t Au over 1.0m, 1.68 g/t Au over 0.56m and 20 g/t Ag over 1.0m. Drill hole QK-16-006 showed also interesting results starting from 34.5 metres depth, where a zone yielded 1.17 g/t Au over 1.43m.

Table 11: Significant anomalous results from 2016 drill program

Hole Number	From (Metres)	To (Metres)	Length (Metres)	Au (g/t)	Ag (g/t)
QK-16-001	13.13	13.48	0.35	0.86	<1.0
QK-16-001	25.00	26.00	1.00	1.07	1.0
QK-16-001	27.60	28.16	0.56	1.68	1.0
QK-16-001	29.00	30.00	1.00	0.05	20.0
QK-16-005	111.60	112.50	0.90	0.43	<1.0
QK-16-005	163.00	164.00	1.00	0.33	<1.0
QK-16-006	28.69	29.15	0.46	0.87	3.0
QK-16-006	34.50	35.93	1.43	1.17	1.0

Drill hole **QK-16-001** planned to test a shear zone hosting disseminated arsenopyrite. Four 2015 grab samples from this shear zone returned grades from 2.04 to 5.78 g/t Au. Hole QK-16-001 started in a lapilli tuff unit heavily altered to biotite followed by a sequence of metasomatic rock at 13.10m up to 20.51m. The interval showed a gold anomaly of 0.86 g/t over 0.35m from 13.13 to 13.48m. The hole continued in a

schistose mafic volcanic unit with bands of pyrrhotite and arsenopyrite. The concentration of sulphides increased on the contact of a second metasomatic rock interval at 28.16m. The second metasomatic rock interval, up to 35.23m, showed disseminated pyrrhotite and bands of arsenopyrite. This interval returned several gold and silver anomaly including 1.07 g/t Au over 1.0m between 25 and 26m, 1.68 g/t Au over 0.56m between 27.6 and 28.16m and 20 g/t Ag over 1.0m from 29 to 30m. The hole ended into a basalt unit up to 68m with a small interval after the metasomatic rock of schistose mafic volcanic from 35.23 to 38m.

Drill hole **QK-16-002** targeted a chargeability and resistivity anomaly coincident with Au-As bearing boulders. Hole QK-16-002 intersected a sequence of massive, plagioclase phyrlic and sheared basalts, intruded by several layers of massive granodiorite. The targeted anomaly corresponds to a 30 metres thick (along hole) massive granodiorite with disseminated pyrite.

Drill hole **QK-16-003** targeted underneath a cluster of gold-bearing boulders (mineralization expected to be intersected at approximately 20m downhole) plus an IP anomaly at 110m downhole. Hole QK-16-003 intersected chloritized basalts from top to 25.62m downhole, followed by massive granodiorite up to 35.0m downhole with no significant mineralization. The hole was stopped at 35.0m downhole due to technical difficulties. The targeted IP anomaly remains untested.

Drill hole **QK-16-004** targeted a weak chargeability and high resistivity anomaly at 55m downhole, underneath a cluster of Au-As bearing boulders. The hole intersected basalts with chloritization with increasing downhole carbonization toward the bottom of the hole and intersected a 1.2 metre-thick (along hole) massive mafic dyke at 129.05m downhole. No significant mineralization was intersected and the anomaly remains unexplained.

Drill hole **QK-16-005** targeted the southern edge of a complex IP anomaly coincident with a mineralized boulder at surface. The hole consists of a sequence of basalts down to 109.44m with variations from weak to intense chloritization, carbonization, sericitization, and silicification. This interval locally contains up to 1% pyrite - chalcopyrite - pyrrhotite in veinlets and is considered to be the cause of the IP anomaly. The interval returned several weakly anomalous gold values including 0.20 g/t Au over 1.0m between 90.0 and 91.0m, 0.22 g/t Au over 1.5m between 100.62 and 102.15 and 0.27 g/t Au over 1.5m between 103.5 and 105.0m. Further down, the hole intersected 3 metres of interflow sediments containing up to 20% laminated pyrrhotite - chalcopyrite, with some gold enrichment (0.26 g/t Au over 1.1m between 110.5 and 111.6m and 0.43 g/t Au over 0.9m between 111.6 and 112.5m). Finally, the hole cut an altered mafic/ultramafic intrusive over more than 45 metres and ended in fragmental mafic volcanics with 1% pyrrhotite - chalcopyrite, which returned 0.33 g/t Au over 1.0m between 163.0 and 164.0m downhole.

Drill hole **QK-16-006** targeted an intense chargeability and resistivity anomaly underneath gold-bearing boulders. The hole intersected a sequence of mudstones and pyroclastics dominated by lapilli tuffs. An increasingly strong silicification is developed downward. Two mineralized intersections are reported. The first is 0.87 g/t Au and 3.0 g/t Ag over 0.46m from 28.7 to 29.15m in an ash tuff with 1-2% patchy and laminated pyrrhotite - sphalerite - chalcopyrite - arsenopyrite. The second is 1.17 g/t Au and 1.0 g/t Ag over 1.43m from 34.5 to 35.93m downhole, at the contact between an ash tuff and strongly silicified sediments with 1-5% disseminated and veinlets of pyrrhotite - pyrite - galena - arsenopyrite. Hole QK-16-006 ended at 56 metres due to technical difficulties and the targeted IP anomaly remains untested.

The 2016 drilling program focussed on the Gerfaut Area, in the Eastern part of the Qiqavik property (Figure 9.1) to test IP anomalies defined in the early stages of the 2016 program. Priority was given to anomalies coincident with mineralized boulders. In total, 550m were drilled in 6 holes. Due to drilling technical difficulties, only 55% of the planned 1000m of drilling was completed. Also, three of the six holes failed to reach target depth due to drilling technical difficulties, leaving these targets untested. Drilling returned several intervals grading greater than 1 g/t Au (Table 11). The source of the high-grade gold boulders in the Gerfaut Zone has not been identified. Consequently, this area remains prospective for future exploration. Complete drill logs can be found in Appendix 6.

10- DATA COLLECTION, SAMPLING, SAMPLE PREPARATION, ANALYSIS AND SECURITY

Four different types of samples were collected by True North Nickel during the 2015 and 2016 programs: surface rock grab samples, surface rock channel samples, till samples and core samples. All lab certificates for chemical analysis can be found in Appendix 7. Core samples consisted of piece of rocks collected with hammers from outcrops or boulders in the field. Till samples consist in approximately 1 kilogram of till material collected from frost boils, which is a common feature in permafrost terrain. Core samples consist of half core of NQ size core cut on-site using a core saw. The sampling methodologies, chain of custody and analytical methods used by True North Nickel were the same for both years to ensure consistency of the results.

10.1 Data collection

Exploration data collected by True North Nickel for the drilling and field programs were incorporated into a CAE Mining Fusion database through an electronic file transfer. Core logging was recorded electronically on site into DHLogger software, within the Fusion database management system. Data collected in the field by the mapping geologists, which include field stations, surface rock samples and till samples, were recorded electronically on site with a tablet using the program GFSNav. This application allows the user to record geotagged information interactively with ArcGIS using a tablet equipped with internal GPS. Data collected in the field are exported into ArcGIS database and validated every evening. They were then exported to DHLogger and Fusion software, along with assay results. These software includes a series of validation tools to prevent entry errors.

10.2 Sampling and chain of custody

Surface rock grab samples were collected by the mapping crews, broken from outcrops or boulders with a sledge hammer. One piece was placed into a plastic bag with a sample tag and the other piece was retained as witness stored at the camp. Most samples were selectively collected on mineralization, so they cannot be considered as representative of any significant volume of rock.

Surface rock channel samples were taken by using a rock saw to cut subcrop and felsenmeer perpendicular to observed mineralization trends. One piece was placed into a plastic bag with a sample tag and the other piece was retained as witness stored at the camp. Most samples were selectively collected on mineralization, so they cannot be considered as representative of any significant volume of rock.

Till samples were collected by the mapping crews along traverses. Till samples were collected from frost-boils, which are a structure created where clay-rich tills are pushed up to the surface by cryoturbation (frost heave) and are thus considered as representative of basal till. Samples were taken with a plastic shovel and put in plastic bags. Each evening, bags were open and placed in a drying room. Bags were subsequently sealed for shipment after using the same laboratory tag and sample ID.

Drill core was cut in half with a core saw along sampling marks defined by the geologist. Half of the core was placed in a sample bag and the other retained in the core box as a witness. A laboratory tag, with a unique sample ID, was placed in each bag before sealing, as well as tacked in the core box. The sample ID was also marked on the bag with ink marker and sample information recorded into the database.

In preparation for shipment, sample bags were placed in woven polypropylene bags, marked with the list of content and shipping number and photographed for records. No seal was applied. Shipments were flown by chartered aircraft from Camp Chukotat to Rouyn-Noranda. Logistics contractor (Services Technominex Inc.) secured the sample shipments in a storage area at the airport before being delivered by ground transportation to ALS Canada Ltd (ALS Minerals) preparation facility in Val-d'Or, Quebec. The samples were recorded in ALS's laboratory information management system (LIMS) in Val-d'Or and True North Nickel notified of arrival through a LIMS email.

10.3 Analytical methods

The surface rock samples and the core samples were prepared at ALS Minerals in Val-d'Or using conventional preparation (PREP-31). Samples were logged in the tracking system, weighed, dried if needed and crushed to >70% minus 2 mm. A 250-gram split was aliquoted and pulverized to > 85% minus 75 microns (200 mesh). Pulps were then shipped to ALS Minerals laboratory in Vancouver for assaying. Gold was assayed by lead oxide collection fire assay with an ICP-AES finish on 50g nominal weight (ALS method Au-ICP22). Other 33 elements were measured by ICP-AES spectrometric methods after near-total 4-acid digestion (ALS method ME-ICP61a).

Till samples were prepared at ALS Minerals in Val-d'Or where they were logged in a tracking system, dried at <60°C and sieved at -180 microns (80 mesh) (PREP-41). An aliquot of the sieved fraction was shipped to ALS Minerals laboratory in Vancouver. Gold analyses were made by lead oxide collection fire assay with an ICP-AES finish on 30g nominal sample weight (ALS method Au-ICP21). The other 48 elements were measured by ICP-EAS/ICP-MS spectrometric method after near-total 4-acid digestion (ALS method ME-MS61).

10.4 Quality assurance and quality control

Both samples preparation and analyses of all True North Nickel samples were completed at ALS Minerals laboratories. The quality management system of ALS Minerals is accredited by the International Organization for Standards (ISO) 9001:2008. In addition, the ALS Minerals Vancouver laboratory is accredited by the ISO and International Electrotechnical Commission ("IEC") 17025:2005 for Au, Pt, and Pd by lead collection fire assay with an ICP finish, as well as for both multi-element packages used (ME-ICP61a and ME-MS61).

In order to monitor the analytical quality provided by ALS Minerals, True North Nickel implemented an internal QAQC program. This QAQC program consisted in the insertion of different certified reference materials (CRMs), blanks and field duplicates at the ratio of 1:10 (10%) for the core samples, and 1:20 (5%) for the surface rock samples and till samples.

The commercial certified reference materials used by True North Nickel for the core samples and surface rock samples were OREAS 523, OREAS 60c, OREAS 61e and OREAS 624, while the ones used for till samples were OREAS 45d, OREAS 905 and OREAS 25a. These certified reference materials were chosen to conform with the lithologies and mineralization expected on the Qiqavik property. All certified values and performance gates for these certified reference materials are available on the Ore & Research Exploration Pty Ltd website (<http://www.oreas.com/>).

The internal blank material used comes from a sand pit in the area of the Dumont project in Amos, Quebec, owned by Royal Nickel Corporation. The same material was used by Royal Nickel Corporation between 2007 and 2016 and was analyzed over 3694 samples and showed 95% of results lower than 0.01 ppm Au (RNC Blank Results in Appendix 8). Core duplicates consist of a quarter core of the given sample interval, and surface rock and till duplicates were selected from field samples with enough material to be duplicated.

Analyses with less than 3 standard deviations (SD) away from the certified value are considered as acceptable. Blank material analyses with less than ten times the detection limits were considered to be acceptable.

Table 12 summarizes the QAQC review for the certified and blank reference material listed by standards and elements. In addition, automated graphical summaries generated by the Fusion database software are provided in Appendix 8. Analytical results complied quality control. Failure of some material on Ag (ME-ICP61a) for core and surface rock samples that were analyzed by ME-ICP61a was noted. However, all those failures are related to certified reference material OREAS-523 and OREAS-60c having Ag content too close to the detection limit of the analytical method rather than analytical issues. OREAS-523 has an Ag certified value of 2.61ppm with SD of 0.223ppm and OREAS-60c has a Ag certified value of 4.87ppm with SD of 0.22ppm, while lower detection limits. Such failures are considered not significant by TNN.

Table 12: Summary of QAQC review on 2016 analytical results, (in brackets are failures)

Sample Type	Standard	Au (ICP22)	Ag (MEICP61a)	As (MEICP61a)	Cu (MEICP61a)	Pb (MEICP61a)	Zn (MEICP61a)
CORE	OREAS 523	2 (0)	2 (1)	2 (0)	2 (0)		
	OREAS 60c	1 (0)	1 (0)				
	OREAS 61e	1 (0)	1 (0)				
	OREAS 624	4 (0)	4 (0)		4 (0)	4 (0)	4 (0)
	Total Std	8 (0)	8 (1)	2 (0)	6 (0)	4 (0)	4 (0)
	Total Blank	5 (0)					

ROCK	OREAS 523	2 (0)	3 (3)	3 (0)	3 (0)		
	OREAS 60c	3 (0)	3 (2)				
	OREAS 61e	2 (0)	2 (0)				
	OREAS 624	4 (0)	6 (0)		6 (0)	6 (0)	6 (0)
	Total Std	11 (0)	14 (5)	3 (0)	9 (0)	6 (0)	6 (0)
	Total Blank	10 (0)					

Sample Type	Standard	Au (ICP22)	Ag (MEMS61)	As (MEMS61)	Be (MEMS61)	Bi (MEMS61)	Cu (MEMS61)	Pb (MEMS61)	Sb (MEMS61)	Te (MEMS61)	Zn (MEMS61)
TILL	OREAS 45d	16 (0)		16 (1)	16 (0)	16 (0)	16 (0)	16 (0)	16 (0)		16 (0)
	OREAS905	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)	13 (0)
	OREAS 25a				9 (0)	9 (0)	9 (0)	9 (0)	9 (0)		9 (0)
	Total Std	29 (0)	13 (0)	29 (1)	38 (0)	38 (0)	38 (0)	38 (0)	38 (0)	13 (0)	38 (0)
	Total Blank	37 (1)									

11- INTERPRETATION AND CONCLUSION

The Qiqavik project is an early stage gold exploration project and only limited work has been completed to date on the property. In 2015 and 2016, True North Nickel completed exploration programs including ground magnetic and IP surveys, 1799 till samples, 617 surface rock samples and 550 metres of drilling in 6 holes. This work led to the identification of 4 high grade gold and copper occurrences along a 40 kilometre trend (Figure 11.1).

The Esperance area consists of Au +/- Ag +/- Cu mineralization traced over 500 metres in a shear zone hosting disseminated to massive sulphides in mafic volcanoclastics and sediments. Abundant surface rock samples collected from boulders and sub-crops assayed between 2.50 and 31.90 g/t Au and up to 10.3% Cu. This mineralization is coincident with a chargeability anomaly extending over 1.2 kilometres, and with multi-elements (As, Bi, Sb, W) anomalies in till.

The Aurora area consists of Au - Ag mineralization associated with weakly mineralized quartz veins set in fine-grained granite. Abundant surface rock samples collected over 200 metres assayed between 5.22 and 189 g/t Au. The host granite can be traced over 600 metres and the mineralization is coincident with gold anomalies in till samples extending over 2 kilometres.

The Central Qiqavik occurrence consists of a series of boulders with Au mineralization in mineralized quartz veinlets hosted in sheared and silicified granodiorite. Assays from boulders returned between 0.87 and 18.30 g/t Au. Boulders sit in the south-western limit of a broad As-Au-Sb anomaly in till extending over 3 kilometres of diameter.

The Gerfaut area consists of Au - Ag +/- Pb +/- Zn mineralization associated with silicified, dolomitized and K-altered mineralized volcanoclastics. Some samples, assaying between 1.03 and 198 g/t Au, were collected from boulders and felsenmeer over 8 kilometres, their range being coincident with a magnetic crest. Historic diamond drill hole returned 3.08 g/t Au over 10.50 metres.

The ABG Zone consists of mineralized quartz veins which assayed up to 0.44 g/t Au 34 g/t Ag and 1.23% Cu. The area is characterized by an arsenic anomaly in till. Finally, till samples collected above the polyphase Kovik intrusive returned anomalous Au values.

Based on field observations and petrographic study, more than one specific genetic deposit model could be involved to characterize the different mineralized zones. Additional studies are required to better understand the mineralization setting, with the current understanding of the property, the orogenic gold and metamorphosed gold-bearing polymetallic epithermal deposit are possible applicable models.

The Qiqavik property is located in a remote and isolated area of Northern Quebec. Logistics and weather conditions in this area remain a significant challenge. However, the two active mines, the intensive exploration work completed by several companies in the last decades, including the exploration programs completed by True North Nickel in the area since 2012, confirm that these challenges are manageable.

Based on the work completed to date and the results leading to the identification of new high-grade gold mineralized zones along a 40 kilometre trend and on the fact that the Qiqavik property is under-explored, further exploration work is warranted.

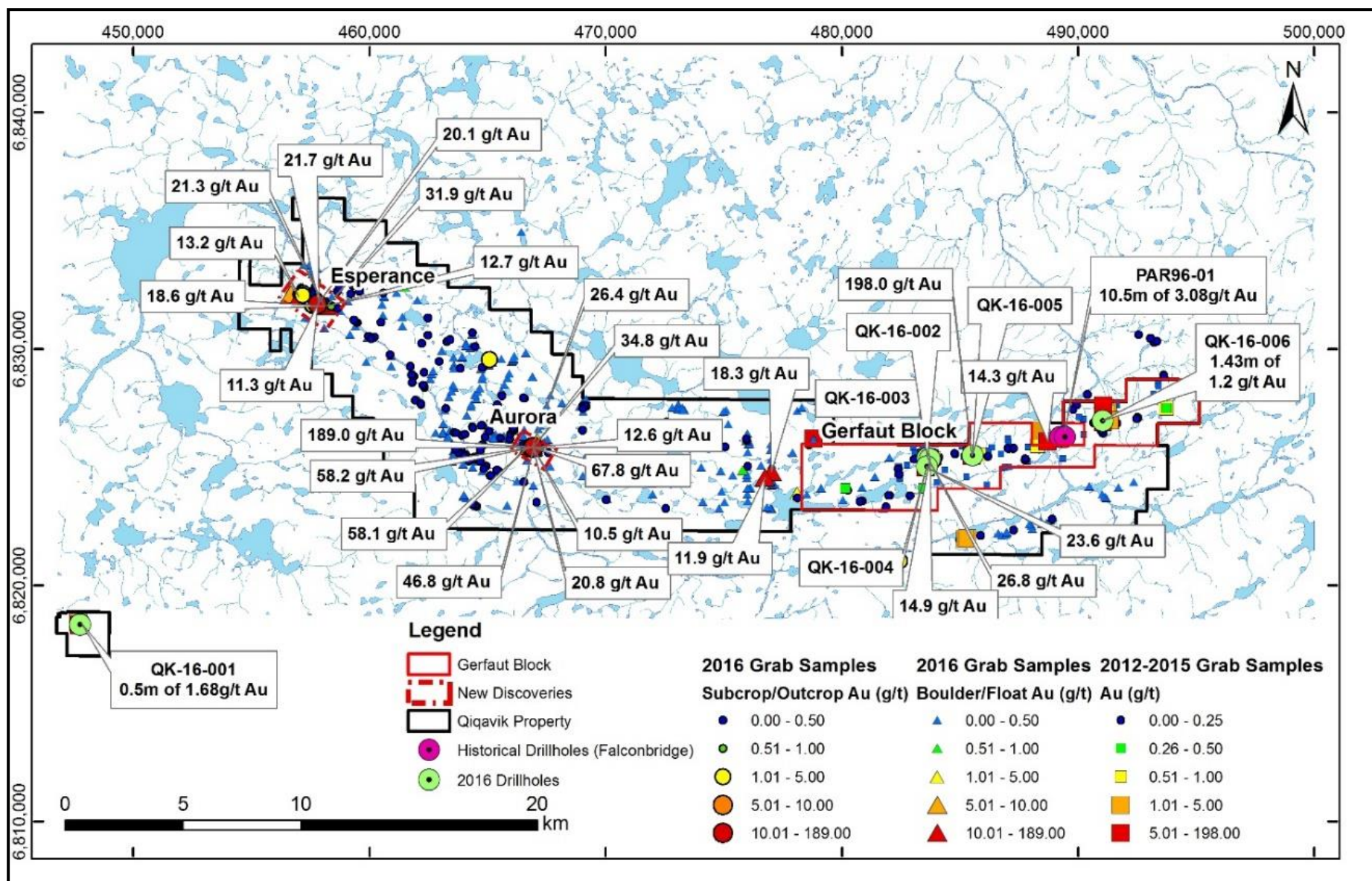


Figure 11.1 Map of Qiqavik property indicating significant gold exploration results

12- RECOMMENDATIONS

Significant mineralization has been recently discovered on the property, but an understanding of the geological and mineralization setting remains limited.

The main goal of future work should be ground exploration to complete the mapping / sampling coverage of the property. Focus should be maintained on finding new mineralized areas, extend the known mineralized zones, and develop geochemical and geophysical targets for a drill program. Future work should include:

A) Geological Mapping and surface sampling:

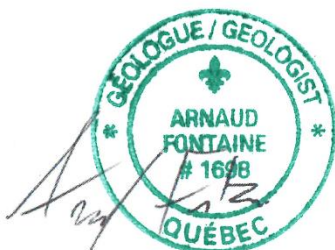
- Property scale traverses and till sampling on new ground and in-filling the 2016 one-kilometre line-spacing
- Detailed mapping of known occurrences, priority being given to the Esperance area
- Extension of the 2016 in-fill till sampling survey in the Aurora area (toward West and South)
- In-fill till sampling survey in Central Qiqavik area
- Extension of till sampling to the south of current sampling in the ABG Zone
- Detailed geological and structural mapping (priority should be given into the Esperance & Aurora Areas)

B) Ground Dipole-Dipole IP Survey:

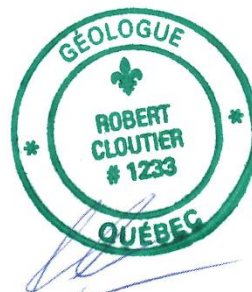
- Extension to the West and East of Aurora and Esperance grids
- New grid over Kovik Intrusive, Central Qiqavik area and the ABG Zone

C) Ground Magnetic Survey

- Extension of the 2016 grids over the West and East of Aurora and Esperance areas
- New grids over other priority areas: Kovik Intrusive, ABG zone and the southern part of the Central Qiqavik



Arnaud Fontaine, géo
Membre OGQ #1698



Robert Cloutier, géo
Membre OGQ #1233

Michelle Sciortino, P. Geo,
APGO# 2155
OGQ Special Authorization # 1515



Brian Bélisle, géo
Membre OGQ #1529

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14- CERTIFICATE OF QUALIFICATION

Statement of Qualifications

Michelle Sciortino

I, Michelle Sciortino, P.Geo hereby certify that:

- 1) I am a professional geologist employed by Royal Nickel Corporation as a Senior Project Geologist with offices at 800-353 Bay, St., Toronto, Ontario M5H2T7
- 2) This certificate applies to the report titled: Annual Report 2016: Sampling, Mapping and Drilling Program on the Qiqavik property, Dated April 12, 2017.
- 3) I am a graduate of the University of Toronto (2007) with a Bachelor's degree in Earth Science; and from the University of Toronto in 2014 with a Masters of Applied Science in Geology.
- 4) I have worked for 9 years in the minerals and exploration industry as a geoscientist and have sufficient work experience in Canada. I have experience in the exploration for a variety of commodities.
- 5) I am a registered Professional geologist in good standing with the Association of Professional Geoscientists of Ontario (APGO #2155). I am entitled practice geology in the province of Quebec by Temporary permit (#1515) of the Ordre des Géologues du Quebec
- 6) I visited the Qiqavik Property on several occasions between July 2016 and September 2016 for a total of 30 days on site and have been responsible for exploration on the Qiqavik property since July 2015.
- 7) I am responsible for all sections of the report entitled: 2016 Exploration program and compilation of historical data, Qiqavik property, Dated April 12, 2017.
- 8) As of the date of this certificate, to the best of my knowledge, information and belief the Annual Report contains all scientific and technical information that is required to be disclosed to make the report not misleading.



Michelle Sciortino, MAsC, P.Geo (OGQ Temporary permit (#1515))
Dated at Toronto, Ontario this April 12, 2017

CERTIFICAT DE QUALIFICATION

Robert Cloutier

Je suis un citoyen canadien, résidant au 81 rue Germain, Amos, Québec, J9T 4J4, Canada, certifie par la présente que :

1. Je suis gradué de l'Université de Montréal en 1986 avec le diplôme de bachelier (BSc) en Géologie.
2. Je pratique ma profession depuis 1986 en exploration et production minière avec une interruption de 7 ans entre 2000 et 2007.
3. Je suis membre en règle de l'Ordre des Géologues du Québec (OGQ) depuis 2008, sous le numéro de membre 1233.
4. Je travaille, à temps plein, pour la société Royal Nickel Corporation depuis 2007 à titre de géologue puis de géologue sénior opérations.
5. Je reçois de mon employeur, à titre incitatif, des options d'achat d'actions dans la compagnie Royal Nickel Corporation.
6. Je travaille sur le projet Qiqavik depuis 2016, j'ai visité la propriété et j'ai examiné la roche et la carotte de forage du projet Qiqavik.
7. Je suis coauteur du rapport intitulé 2016 Exploration program and compilation of historical data, Qiqavik property et j'assume les responsabilités de tous les aspects géologiques de ce rapport.
8. J'ai supervisé le travail des professionnels de Royal Nickel Corporation qui ont travaillé à la compilation, l'interprétation et la rédaction de ce rapport.
9. Le contenu de ce rapport est fondé sur mon expérience personnelle, sur une étude des rapports de travaux et des cartes disponibles et résume fidèlement les travaux effectués. Cette étude est valable dans les limites de mes qualifications et de mon expérience professionnelle.
10. Je consens à l'utilisation de mon nom en regard de ce rapport.

EN FOI DE QUOI, je signe à Amos, ce 12 Avril 2017.



Robert Cloutier, géo
Géologue Sénior Opérations
Royal Nickel Corporation

CERTIFICAT DE QUALIFICATION

Brian Bélisle

Je soussigné, Brian Bélisle, géo, domicilié au 281, rue Marchildon, Amos, Québec, Canada, J9T 4G5, certifie par la présente que :

1. Je travaille pour la compagnie Royal Nickel Corporation, 42 rue Trudel, Amos, Québec, Canada, J9T 4N1, depuis 2011 à titre de Géologue.
2. Je suis diplômé de l'Université de Québec à Montréal et détiens un Baccalauréat en Sciences de la Terre et de l'Atmosphère (2010) en concentration Géologie.
3. Je suis membre de l'Ordre des Géologues du Québec depuis 2011, sous le numéro de membre 1529.
4. Je pratique ma profession dans le domaine de la géologie et de l'exploration minérale au Canada depuis 2011.
5. Je suis coauteur du rapport intitulé 2016 2016 Exploration program and compilation of historical data, Qiqavik property, et j'assume les responsabilités de tous les aspects géologiques de ce rapport.
6. Ce rapport est fondé sur mon expérience personnelle, sur des rapports de travaux et sur des cartes disponibles.
7. En autant que je le sache, il n'y a aucun fait substantiel ou changement significatif en ce qui concerne le sujet du rapport qui ne serait pas reflété dans le rapport mentionné.
8. Je consens à l'utilisation de mon nom en regard de ce rapport.

EN FOI DE QUOI, je signe à Amos, ce 12 Avril 2017.



Brian Bélisle, géo
Géologue d'exploration – Projet Dumont
Royal Nickel Corporation

CERTIFICAT DE QUALIFICATION

Arnaud Fontaine

Je soussigné, Arnaud Fontaine, géo, domicilié au 541, 7^e Avenue Ouest, Amos, Québec, Canada, J9T 1N4, certifie par la présente que :

1. Je travaille pour la compagnie Royal Nickel Corporation, 42 rue Trudel, Amos, Québec, Canada, J9T 4N1, depuis 2012 à titre de Géologue Stagiaire, puis comme géologue depuis 2017.
2. Je suis diplômé de l'Université de Québec à Montréal et détiens un Baccalauréat en Sciences de la Terre et de l'Atmosphère (2012) en concentration Géologie.
3. Je suis membre de l'Ordre des Géologues du Québec depuis 2012, sous le numéro de membre 1608.
4. Je pratique ma profession dans le domaine de la géologie et de l'exploration minérale au Canada depuis 2012.
5. Je suis coauteur du rapport intitulé 2016 Exploration program and compilation of historical data, Qiqavik property, et j'assume les responsabilités de tous les aspects géologiques de ce rapport.
6. Ce rapport est fondé sur mon expérience personnelle de la région, sur des rapports de travaux et sur des cartes disponibles ainsi que sur des travaux que j'y ai effectués.
7. En autant que je le sache, il n'y a aucun fait substantiel ou changement significatif en ce qui concerne le sujet du rapport qui ne serait pas reflété dans le rapport mentionné.
8. Je consens à l'utilisation de mon nom en regard de ce rapport.

EN FOI DE QUOI, je signe à Amos, ce 12 Avril 2017.



Arnaud Fontaine, géo,
Géologue d'exploration – Projet Dumont
Royal Nickel Corporation

APPENDIX 1

LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2435149	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435150	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435151	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435152	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435153	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435154	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435155	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435156	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435157	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435158	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435159	35G11	41.12	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435160	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435161	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435162	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435163	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435164	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435165	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435166	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435167	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435168	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435169	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435170	35G11	41.11	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435171	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435172	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435173	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435174	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435175	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435176	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435177	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435178	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435179	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435180	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435181	35G11	41.1	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435182	35G11	41.09	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435183	35G11	41.09	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435184	35G11	41.09	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435185	35G11	41.09	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435186	35G11	41.09	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2439305	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439306	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439307	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439308	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439309	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439310	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439311	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.

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Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2439312	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439313	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439314	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439315	35G11	41.14	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439316	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439317	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439318	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439319	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439320	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439321	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439322	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439323	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439324	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439325	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439326	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439327	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439328	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439329	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439330	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439331	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439332	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439333	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439334	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439335	35G11	41.13	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439336	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439337	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439338	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439339	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439340	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439341	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439342	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439343	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439344	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439345	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439346	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439347	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439348	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439349	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439350	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439351	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439352	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439353	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439354	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439355	35G11	41.12	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439356	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.

APPENDIX 1

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Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2439357	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439358	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439359	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439360	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439361	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439362	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439363	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439364	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439365	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439366	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439367	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439368	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439369	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439370	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439371	35G11	41.11	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439372	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439373	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439374	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439375	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439376	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439377	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2439378	35G11	41.1	Active	2016-04-07	2018-04-06	100	True North Nickel Inc.
2441899	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441900	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441901	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441902	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441903	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441904	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441905	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441906	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441907	35G11	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441908	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441909	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441910	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441911	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441912	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441913	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441914	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441915	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441916	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441917	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441918	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441919	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441920	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441921	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

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Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2441922	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441923	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441924	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441925	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441926	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441927	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441928	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441929	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441930	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441931	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441932	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441933	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441934	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441935	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441936	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441937	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441938	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441939	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441940	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441941	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441942	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441943	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441944	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441945	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441946	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441947	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441948	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2441949	35G11	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442083	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442084	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442085	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442086	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442087	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442088	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442089	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442090	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442091	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442092	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442093	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442094	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442095	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442096	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442097	35G12	41.12	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442098	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442099	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2442100	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442101	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442102	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442103	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442104	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442105	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442106	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442107	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442108	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442109	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442110	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442111	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442112	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442113	35G12	41.11	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442114	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442115	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442116	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442117	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442118	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442119	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442120	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442121	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442122	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442123	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442124	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442125	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442126	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442127	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442128	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442129	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442130	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442131	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442132	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442133	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442134	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442135	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442136	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442137	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442138	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442139	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442140	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442141	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442142	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442143	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442144	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2442145	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442146	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442147	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442148	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442149	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442150	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442151	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442152	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442153	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442154	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442155	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442156	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442157	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442158	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442159	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442160	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442161	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442162	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442163	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442164	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442165	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442166	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442167	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442168	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442169	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442170	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442171	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442172	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442173	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442174	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442175	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442176	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442177	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442178	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442179	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442180	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442181	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442182	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442183	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442184	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442185	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442186	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442187	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442188	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442189	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2442190	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442191	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442192	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442193	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442194	35G12	41.1	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442195	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442196	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442197	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442198	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442199	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442200	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442201	35G12	41.09	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442202	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442203	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442204	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442205	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442206	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442207	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442208	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442209	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442210	35G12	41.08	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442211	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442212	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442213	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442214	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442215	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442216	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442217	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442218	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442219	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442220	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442221	35G12	41.07	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442222	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442223	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442224	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442225	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442226	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442227	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442228	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442229	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442230	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442231	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442232	35G12	41.05	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442233	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442234	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2442235	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442236	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442237	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442238	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442239	35G12	41.04	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442240	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442241	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442242	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442243	35G12	41.03	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442244	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442245	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442246	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442247	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442248	35G12	41.02	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442249	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442250	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442251	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442252	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2442253	35G12	41.01	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.
2457077	35G11	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457078	35G11	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457079	35G11	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457080	35G11	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457081	35G11	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457082	35G12	41.12	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457083	35G12	41.12	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457084	35G12	41.12	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457085	35G12	41.12	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457086	35G12	41.11	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457087	35G12	41.11	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457088	35G12	41.11	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457089	35G12	41.11	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457090	35G12	41.11	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457091	35G12	41.1	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457092	35G12	41.1	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457093	35G12	41.1	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457094	35G12	41.1	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457095	35G12	41.1	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457096	35G12	41.09	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457097	35G12	41.09	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457098	35G12	41.09	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457099	35G12	41.09	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457100	35G12	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457101	35G12	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457102	35G12	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2457103	35G12	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457104	35G12	41.08	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457105	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457106	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457107	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457108	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457109	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457110	35G12	41.07	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457111	35G12	41.06	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457112	35G12	41.06	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457113	35G12	41.06	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457114	35G12	41.06	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457115	35G12	41.05	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457116	35G12	41.05	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457117	35G12	41.05	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457118	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457119	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457120	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457121	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457122	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457123	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457124	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457125	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457126	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457127	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457128	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457129	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457130	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457131	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457132	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457133	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457134	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457135	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457136	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457137	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457138	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457139	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457140	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457141	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457142	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457143	35G12	41	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457144	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457145	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457146	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457147	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.

APPENDIX 1

LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2457148	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457149	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457150	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457151	35G12	40.99	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457152	35G12	40.98	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457153	35G12	40.98	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457154	35G12	40.98	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457155	35G12	40.98	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457156	35G12	40.98	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457157	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457158	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457159	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457160	35G12	41.04	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457161	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457162	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457163	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457164	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457165	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457166	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457167	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457168	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457169	35G12	41.03	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457170	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457171	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457172	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457173	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457174	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457175	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457176	35G12	41.02	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457177	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457178	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457179	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457180	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457181	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457182	35G12	41.01	Active	2016-08-11	2018-08-10	100	True North Nickel Inc.
2457253	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457254	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457255	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457256	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457257	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457258	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457259	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457260	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457261	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457262	35G11	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.

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LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2457263	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457264	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457265	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457266	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457267	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457268	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457269	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457270	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457271	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457272	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457273	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457274	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457275	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457276	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457277	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457278	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457279	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457280	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457281	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457282	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457283	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457284	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457285	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457286	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457287	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457288	35G12	41.13	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457289	35G12	41.09	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457290	35G12	41.08	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457291	35G12	41.07	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457292	35G12	41.04	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457293	35G12	41.03	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457294	35G12	41.02	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457295	35G12	41.01	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457296	35G12	41	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2457297	35G12	41	Active	2016-08-12	2018-08-11	100	True North Nickel Inc.
2462242	35G12	40.91	Active	2016-09-14	2018-09-13	100	True North Nickel Inc.
2462243	35G12	40.98	Active	2016-09-14	2018-09-13	100	True North Nickel Inc.
2465124	35G12	41.04	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465125	35G12	41.04	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465126	35G12	41.04	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465127	35G12	41.04	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465128	35G12	41.04	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465129	35G12	41.03	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465130	35G12	0.03	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465131	35G12	29.59	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.

APPENDIX 1

LIST OF CLAIMS REGISTERED UNDER TRUE NORTH NICKEL

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2465132	35G12	6.15	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465133	35G12	0.36	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465134	35G12	33.98	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465135	35G12	0.45	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465136	35G12	0.24	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465137	35G12	27.51	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465138	35G12	0.07	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465139	35G12	0.58	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465140	35G12	0.01	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2465141	35G12	31.34	Active	2016-10-04	2018-10-03	100	True North Nickel Inc.
2469662	35G12	31.52	Active	2016-11-17	2018-11-16	100	True North Nickel Inc.
2469663	35G12	26.78	Active	2016-11-17	2018-11-16	100	True North Nickel Inc.
2469664	35G12	34.53	Active	2016-11-17	2018-11-16	100	True North Nickel Inc.
2470009	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470010	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470011	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470012	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470013	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470014	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470015	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2470016	35G12	41.06	Active	2016-11-29	2018-11-28	100	True North Nickel Inc.
2435187	35G05	41.2	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435188	35G05	41.2	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2435191	35G05	41.19	Active	2015-12-10	2017-12-09	100	True North Nickel Inc.
2438213	35G05	37.36	Active	2016-03-16	2018-03-15	100	True North Nickel Inc.
2438214	35G05	41.19	Active	2016-03-16	2018-03-15	100	True North Nickel Inc.
2441897	35G05	41.19	Active	2016-04-19	2018-04-18	100	True North Nickel Inc.

LIST OF CLAIMS REGISTERED UNDER RESSOURCES TECTONIC

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APPENDIX 2

LIST OF CLAIMS REGISTERED UNDER RESSOURCES TECTONIC

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2334878	35G11	41.06	Active	2012-03-07	2018-03-06	100	Ressources Tectonic inc. (Les)
2334879	35G11	41.06	Active	2012-03-07	2018-03-06	100	Ressources Tectonic inc. (Les)
2334880	35G11	41.06	Active	2012-03-07	2018-03-06	100	Ressources Tectonic inc. (Les)
2363815	35G11	41.08	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363816	35G11	41.08	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363817	35G11	41.06	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363818	35G11	41.06	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363819	35G11	41.06	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363820	35G11	41.06	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363846	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363847	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363848	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363849	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363850	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363851	35G11	41.12	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363863	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363864	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363865	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363866	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363867	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363868	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363869	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363870	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363871	35G11	41.11	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363883	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363884	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363885	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363886	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363887	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363888	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363889	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363890	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2363891	35G11	41.1	Active	2012-09-19	2018-09-18	100	Ressources Tectonic inc. (Les)
2408511	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408512	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408513	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408514	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408515	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408516	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2408517	35G11	41.12	Active	2014-07-28	2018-07-27	100	Ressources Tectonic inc. (Les)
2430463	35G11	41.1	Active	2015-07-09	2017-07-08	100	Ressources Tectonic inc. (Les)
2431743	35G11	41.1	Active	2015-07-31	2017-07-30	100	Ressources Tectonic inc. (Les)
2431744	35G11	41.1	Active	2015-07-31	2017-07-30	100	Ressources Tectonic inc. (Les)
2431745	35G11	41.1	Active	2015-07-31	2017-07-30	100	Ressources Tectonic inc. (Les)
2431746	35G11	41.1	Active	2015-07-31	2017-07-30	100	Ressources Tectonic inc. (Les)
2431747	35G11	41.1	Active	2015-07-31	2017-07-30	100	Ressources Tectonic inc. (Les)

APPENDIX 3

LIST OF CLAIMS REGISTERED UNDER WAYNE HOLMSTEAD

Title No	NTS #	Surface area (Ha)	Status	Registration Date	Expiration Date	Ownership (%)	Title Holder
2429154	35G11	41.09	Active	2015-06-15	2017-06-14	100	Wayne Holmstead
2429155	35G11	41.09	Active	2015-06-15	2017-06-14	100	Wayne Holmstead
2429156	35G11	41.09	Active	2015-06-15	2017-06-14	100	Wayne Holmstead
2429157	35G11	41.09	Active	2015-06-15	2017-06-14	100	Wayne Holmstead
2429158	35G11	41.09	Active	2015-06-15	2017-06-14	100	Wayne Holmstead

Appendix 4 - Satellites and surveys specifications

Satellite: WorldView-3

East Qiqavik (Gerfaut) high resolution multispectral imagery

Last Data Collection Date: June 25, 2014 and August 20, 2015
Sensor mode: Multispectral
Product level: Basic
Product format: GeoTiff
Projection/Datum: UTM18 NAD83
Product resolution: 0.5m panchromatic band, 2m multispectral bands
Resampling method: Nearest neighbour
DEM used for orthorectification: CDED and 1m DEM produced by Japosat
Final processing: 0.5m pansharp orthomosaic

Bands' technical specifications:

Panchromatic : Panchromatic: 450 – 800 nm
Multispectral (8 Bands) Coastal : 400 – 450 nm Red : 630 – 690 nm
Blue : 450 – 510 nm Red Edge : 705 – 745 nm
Green : 510 – 580 nm Near-IR1 : 770 – 895 nm
Yellow : 585 – 625 nm Near-IR2 : 860 – 1040 nm

Specifications:

Launch Date August 13, 2014
Orbit Altitude: 617 km
Type: SunSync, 1:30 pm descending Node
Period: 97 min.
Life Spec Mission Life; 7.25 years
Estimated Service Life: 10 to 12 years
Spacecraft Size, Mass and Power Size: 5.7 m (18.7 feet) tall x 2.5 m (8 feet) across, 7.1 m (23 feet) across the deployed solar arrays
Mass: 2800 kilograms (6200 pounds)
Power: 3.1 kW solar array, 100 Ahr battery
Sensor Resolution (or GSD, Ground Sample Distance; off-nadir is geometric mean) Panchromatic Nadir: 0.31 m GSD at Nadir 0.34 m at 20° Off-Nadir
Multispectral Nadir: 1.24 m at Nadir, 1.38 m at 20° Off-Nadir
SWIR Nadir: 3.70 m at Nadir, 4.10 m at 20° Off-Nadir (Commercial delivery at 7.5m resolution)
CAVIS Nadir: 30.00 m
Dynamic Range 11-bits per pixel Pan and MS; 14-bits per pixel SWIR
Attitude Determination and Control Type: 3-axis stabilized
Actuators: Control Moment Gyros (CMGs)
Sensors: Star trackers, precision, IRU, GPS
Pointing Accuracy and Knowledge Accuracy: <500 m at image start and stop
Knowledge: Supports geolocation accuracy below
Communications Image & Ancillary: 800 & 1200 Mbps X-band
Housekeeping: 4, 16, 32 or 64 kbps real-time, 524 kbps stored, X-band
Command: 2 Or 64 kbps S-band
Max Contiguous Area Collected in a Single Pass (30° off-nadir angle) Mono: 66.5 km x 112 km (5 strips)
Stereo: 26.6 km x 112 km (2 pairs)
Revisit Frequency(at 40°N Latitude) 1 m GSD: <1.0 day
4.5 days at 20° off-nadir or less
Geolocation Accuracy(CE90) Predicted Performance: <3.5 m CE90 without ground control

Appendix 4 - Satellites and surveys specifications

Satellite: Pleiades

West Qiqavik high resolution multispectral imagery

Last Data Collection Date:	August 22, 2014 and September 9, 2015
Sensor mode:	Multispectral
Product level:	Basic
Product format:	GeoTiff
Projection/Datum:	UTM18 NAD83
Product resolution:	0.5m panchromatic band, 2m multispectral bands
Resampling method:	Nearest neighbour
DEM used for orthorectification:	1m DEM produced by Japosat
Final processing:	0.5m pansharp orthomosaic

Bands' technical specifications:

Panchromatic	Panchromatic: 480 – 830 nm
	Blue : 430 – 550 nm
	Green : 490 – 610 nm
Multispectral (4 Bands)	Red : 600 – 720 nm
	Near-IR : 750 – 950 nm

Specifications:

Pléiades est un couple de deux satellites optiques parfaitement identiques. Les satellites Pléiades 1A et Pléiades 1B opèrent en véritable constellation sur la même orbite, à 180° l'un de l'autre.

Launch Date	Pleiades-1A : December 16, 2011 Pleiades-1B : December 2, 2012
Orbit	Sun-synchronous Altitude: 694 km
Imagery Products	50-cm black and white 50-cm color 2-meter multispectral Bundle: 50-cm B&W and 2-meter multispectral
Spectral Bands	P: 480-830 nm Blue: 430-550 nm Green: 490-610 nm Red: 600-720 nm Near Infrared: 750-950 nm
Preprocessing Levels	Sensor, Ortho
Image Location Accuracy	With ground control points: 1m Without ground control points: 3m (CE90)
Imaging Capacity	Daily constellation capacity: 1,000,000 sq.km. Strip mapping (mosaic): 100 km x 100 km Stereo imaging: 20 km x 280 km Max. spots over 100 km x 200 km: 30 (crisis mode)
Imaging Swath	20 km at nadir
Revisit Interval	Daily

Appendix 4 - Satellites and surveys specifications

Satellite: WorldView-1

East Qiqavik (Gerfaut) 1m DEM

Last Data Collection Date: June 27, 2012 and July 15, 2014 and July 23, 2015

West Qiqavik 1m DEM

Last Data Collection Date: July 4, 2015 and September 9, 2015

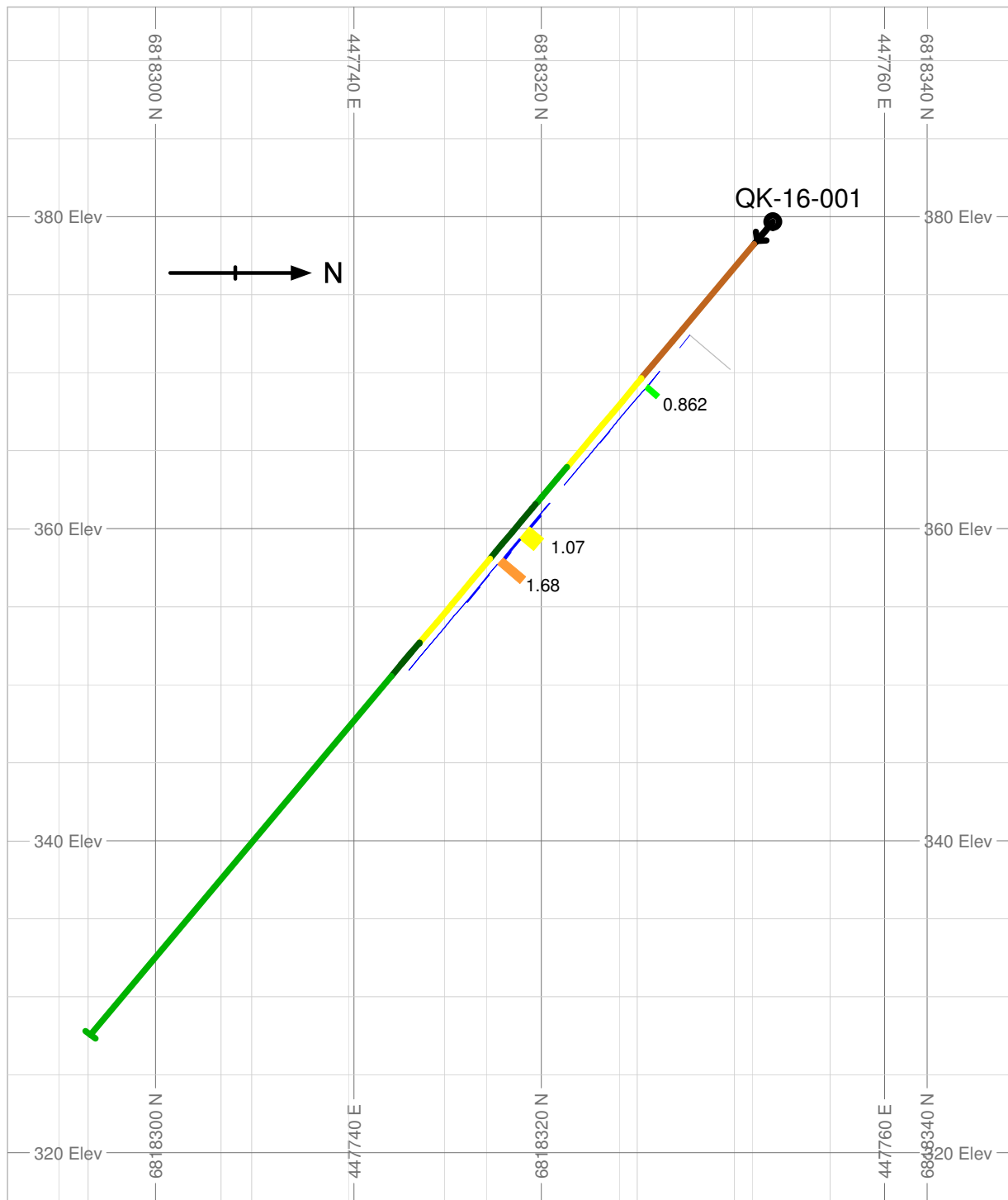
Sensor mode:	Stereo panchromatic	Resampling method:	Nearest neighbour
Product level:	Basic	DEM extraction:	Image correlation
Product format:	GeoTiff	DEM manual edition:	Water bodies
Projection/Datum:	UTM18 NAD83	DEM filtering:	FAV 3x3
Product resolution:	0.5m	DEM final resolution:	1m

Bands' technical specifications:

Panchromatic :	Panchromatic: 450 – 800 nm
----------------	----------------------------

Specifications:

Launch Date	September 18, 2007
Launch Vehicle	Boeing Delta 7920 (9-strap-ons)
Orbit Altitude	496 Km
Orbit Inclination	sun-synchronous
Spacecraft Size, Mass & Power	3.6 meters (12 feet) tall x 2.5 meters (8 feet) across, 7.1 meters (23 feet) across the deployed solar arrays 2500 kilograms (5500 pounds) 3.2 kW solar array, 100 Ahr battery
Equator Crossing Time	10:30 AM (descending node)
Full Scene	17.6 Km x 14 Km or 246.4 Km ² at nadir
Orbit Time	94.6 minutes
Dynamic Range	11 bits per pixel
Resolution	0.50 meters GSD at nadir 0.55 meters GSD at 20° off-nadir (the imagery must be re-sampled to 0.5 meters for non-US Gov customers)
Sensor Bands	Panchromatic
Metric Accuracy	Accuracy: <500 meters at image start and stop Knowledge: Supports geolocation accuracy below
Geolocation Accuracy (CE 90%)	Demonstrated <4.0 m CE90 without ground control
Retargeting Ability	Acceleration: 2.5 deg/s/s Rate: 4.5 deg/s Time to slew 300 kilometers: 9 seconds
Attitude Determination and Control	3-axis stabilized Actuators: Control Moment Gyros (CMGs) Sensors: Star trackers, solid state IRU, GPS
Communications	Image and Ancillary Data: 800 Mbps X-band Housekeeping: 4, 16 or 32 kbps real-time, 524 kbps stored, X-band Command: 2 or 64 kbps S-band
Max Viewing Angle / Accessible Ground Swath	60 x 110 km mono 30 x 110 km stereo



Legend

	Mafic / Ultramafic Intrusive		Gabbro
	Basalt		Schistose Mafic Volcanic
	Fragmental Mafic Volcanic		Granodiorite
	Basaltic Andesite		Sedimentary
	Mudstone		Tuff
	Lapilli Tuff		Metasomatic Rock
	Sedimentary Sulphide		Overburden

Au Assay Values (ppm)

	0 to 0.5		0.5 to 1
	1 to 1.5		1.5 to 2
	2 to 2.7		

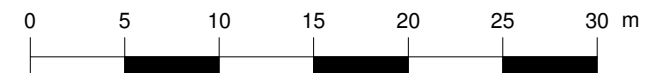
True North Nickel

QK-16-001 Drill Section

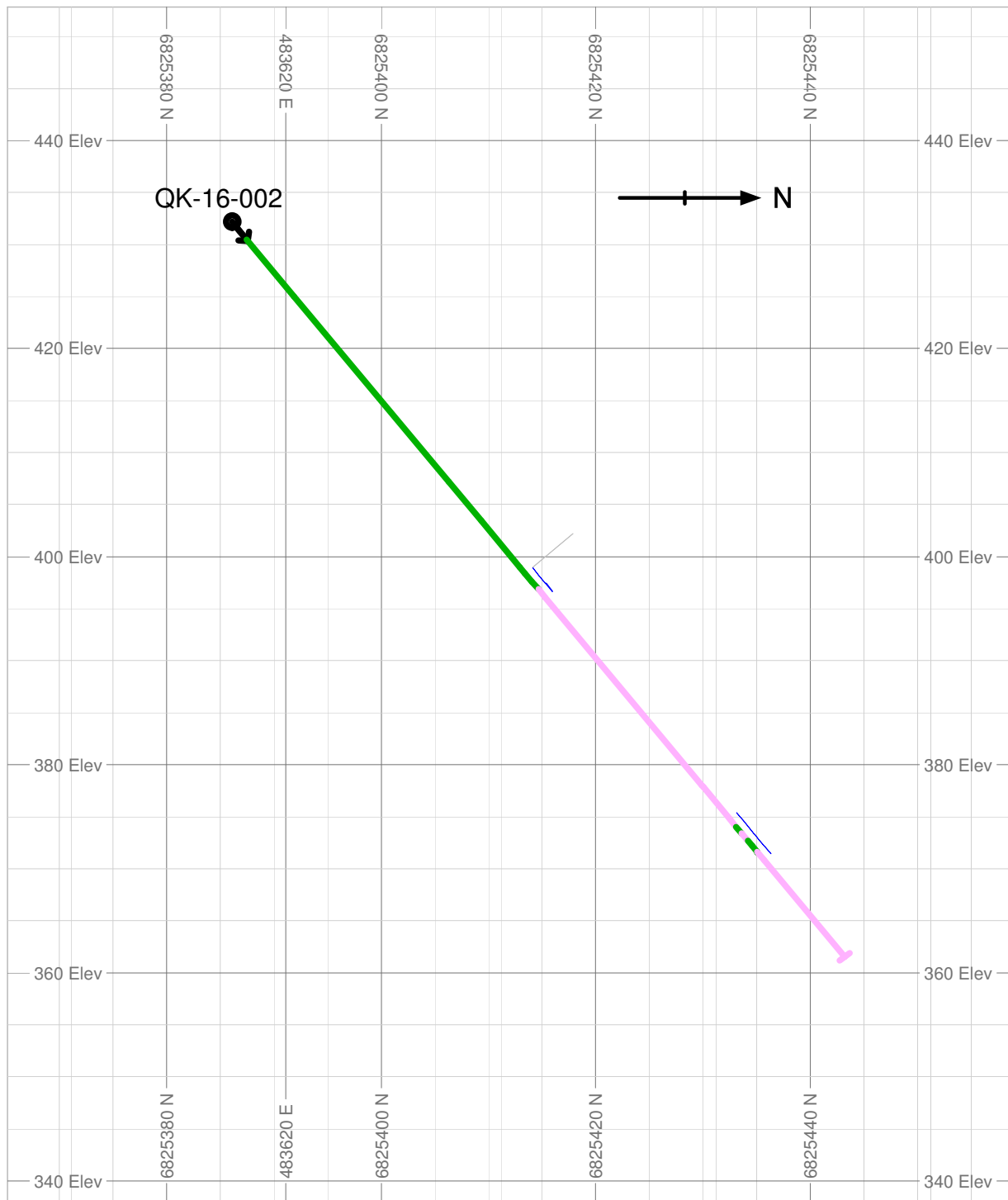
Section Looking North-West
(Azimuth 306)

Date: April 2017

Scale 1:400



Author: Arnaud Fontaine, géo # 1698



Legend

	Mafic / Ultramafic Intrusive		Gabbro
	Basalt		Schistose Mafic Volcanic
	Fragmental Mafic Volcanic		Granodiorite
	Basaltic Andesite		Sedimentary
	Mudstone		Tuff
	Lapilli Tuff		Metasomatic Rock
	Sedimentary Sulphide		Overburden

Au Assay Values (ppm)

	0 to 0.5		0.5 to 1
	1 to 1.5		1.5 to 2
	2 to 2.7		

True North Nickel

QK-16-002 Drill Section

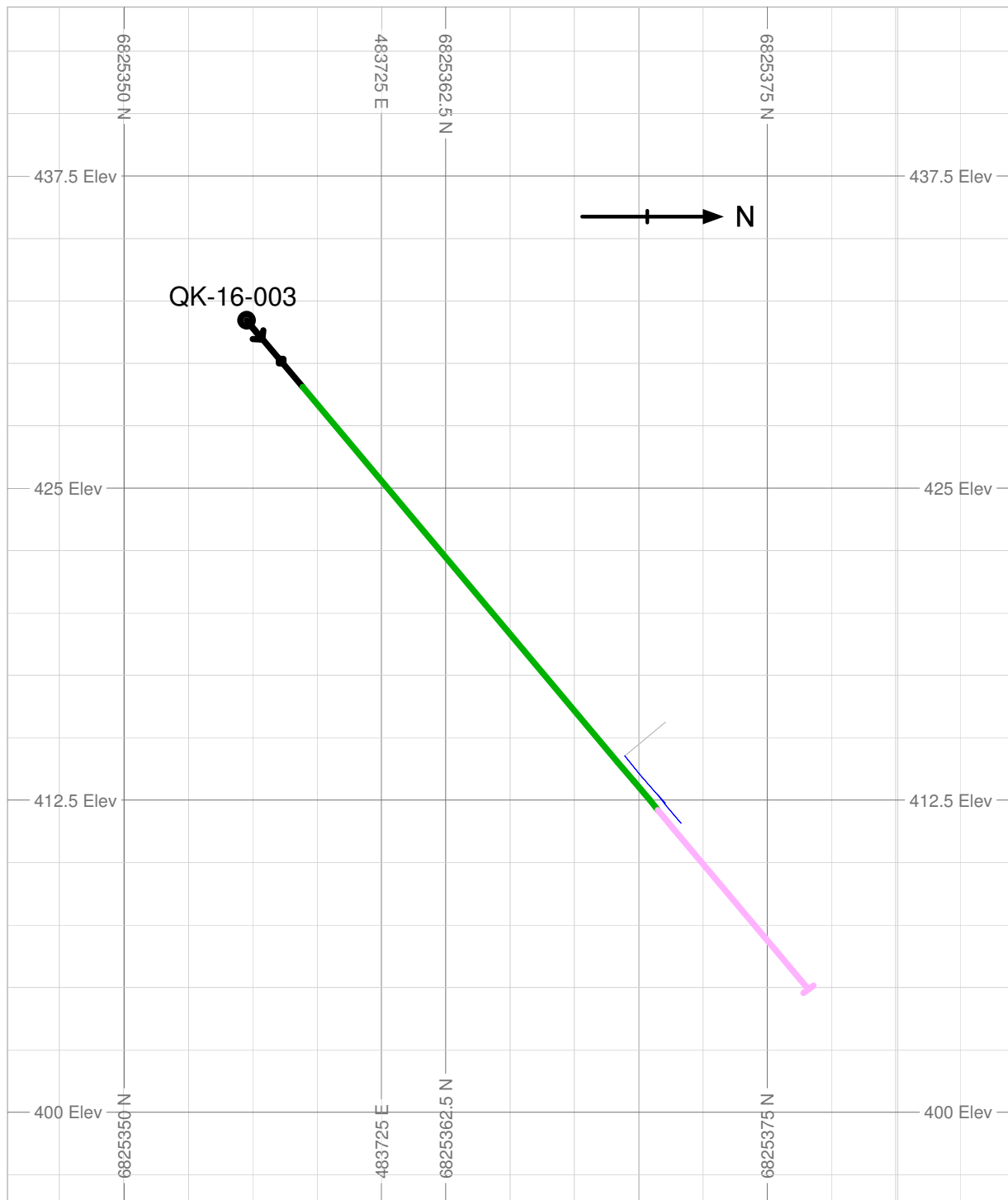
Section Looking West
(Azimuth 256)

Date: April 2017

Scale 1:600



Author: Arnaud Fontaine, géo # 1698



Legend

 Mafic / Ultramafic Intrusive	 Gabbro
 Basalt	 Schistose Mafic Volcanic
 Fragmental Mafic Volcanic	 Granodiorite
 Basaltic Andesite	 Sedimentary
 Mudstone	 Tuff
 Lapilli Tuff	 Metasomatic Rock
 Sedimentary Sulphide	 Overburden

Au Assay Values (ppm)

 0 to 0.5	 0.5 to 1
 1 to 1.5	 1.5 to 2
 2 to 2.7	

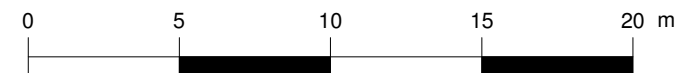
True North Nickel

QK-16-003 Drill Section

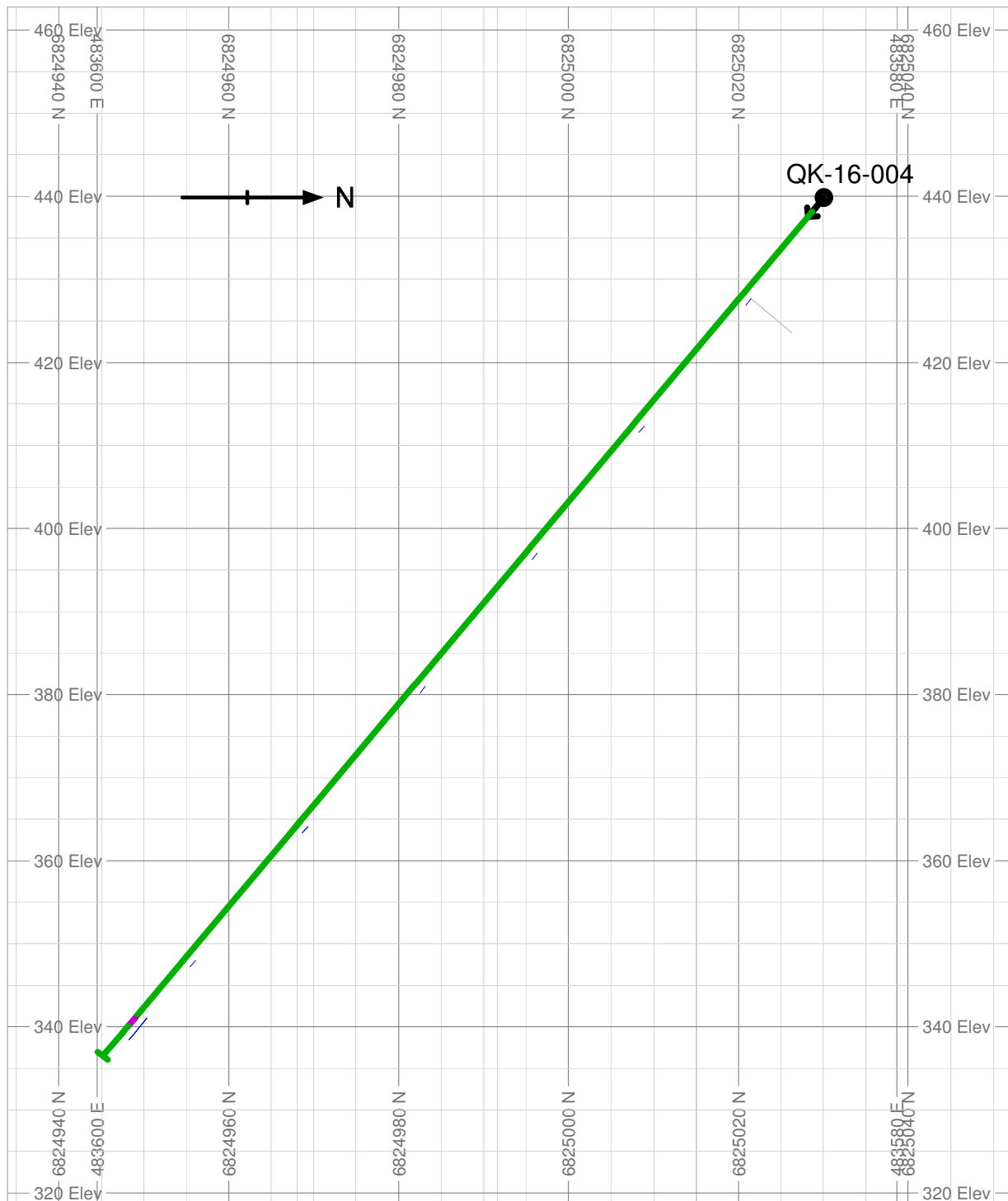
Section Looking West
(Azimuth 256)

Date: April 2017

Scale 1:250



Author: Arnaud Fontaine, géo # 1698



Legend

	Mafic / Ultramafic Intrusive		Gabbro
	Basalt		Schistose Mafic Volcanic
	Fragmental Mafic Volcanic		Granodiorite
	Basaltic Andesite		Sedimentary
	Mudstone		Tuff
	Lapilli Tuff		Metasomatic Rock
	Sedimentary Sulphide		Overburden

Au Assay Values (ppm)

	0 to 0.5		0.5 to 1
	1 to 1.5		1.5 to 2
	2 to 2.7		

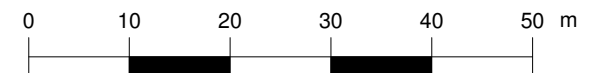
True North Nickel

QK-16-004 Drill Section

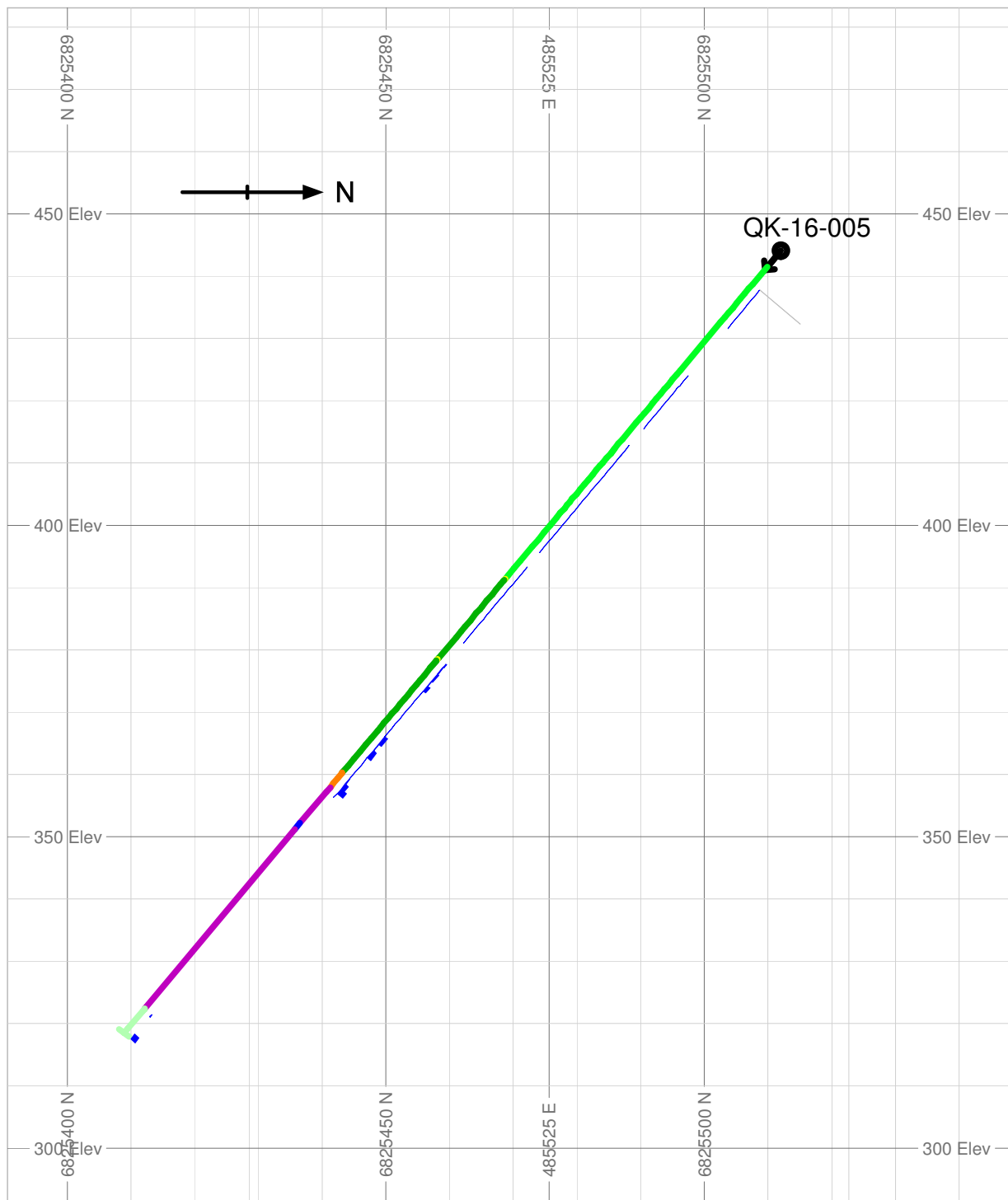
Section Looking West
(Azimuth 258)

Date: April 2017

Scale 1:750



Author: Arnaud Fontaine, géo # 1698



Legend

Mafic / Ultramafic Intrusive	Gabbro
Basalt	Schistose Mafic Volcanic
Fragmental Mafic Volcanic	Granodiorite
Basaltic Andesite	Sedimentary
Mudstone	Tuff
Lapilli Tuff	Metasomatic Rock
Sedimentary Sulphide	Overburden

Au Assay Values (ppm)

0 to 0.5	0.5 to 1
1 to 1.5	1.5 to 2
2 to 2.7	

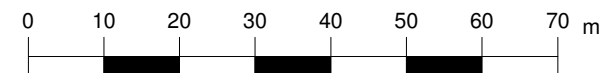
True North Nickel

QK-16-005 Drill Section

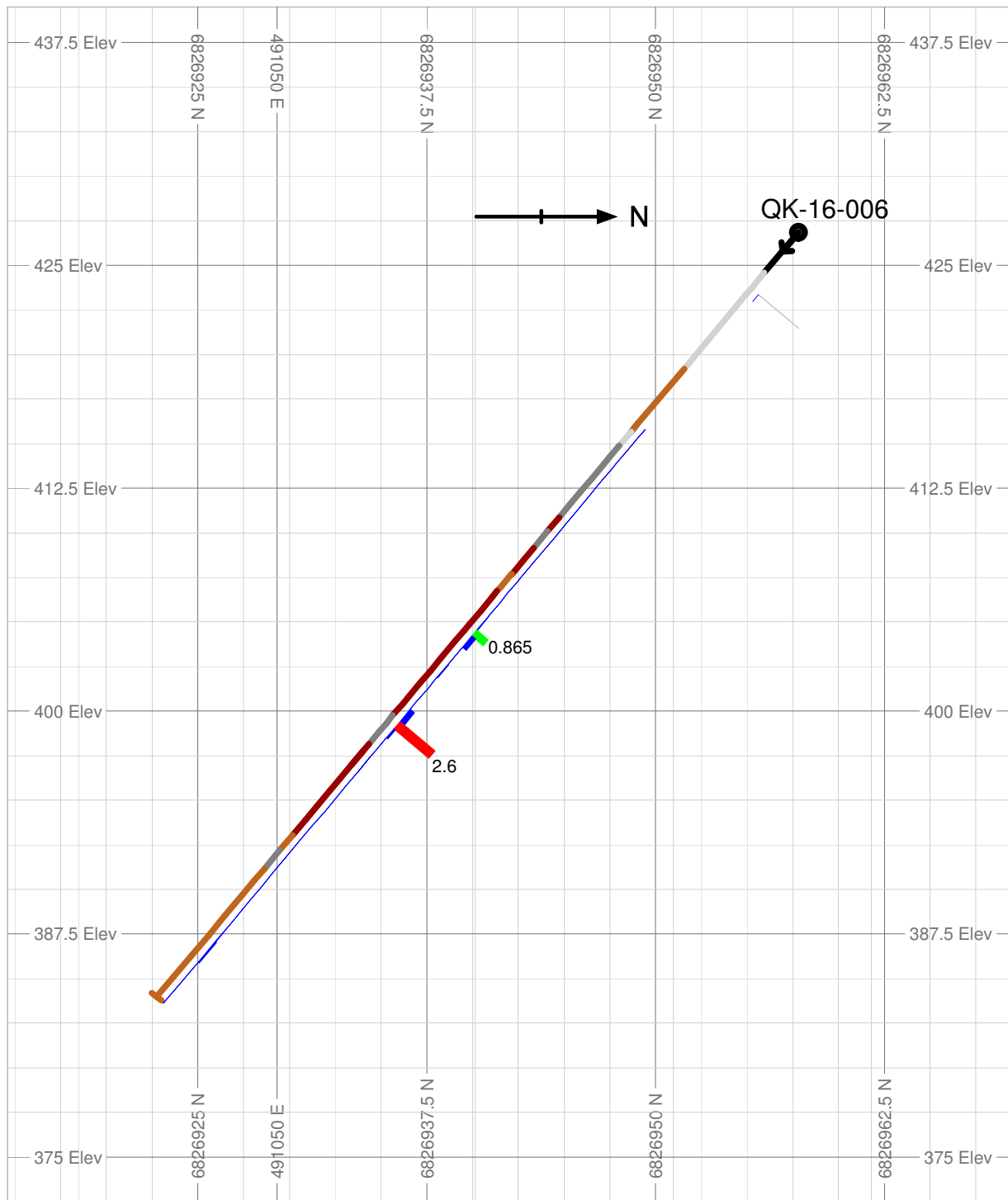
Section Looking West
(Azimuth 258)

Date: April 2017

Scale 1:1000



Author: Arnaud Fontaine, géo # 1698



Legend

Mafic / Ultramafic Intrusive	Gabbro
Basalt	Schistose Mafic Volcanic
Fragmental Mafic Volcanic	Granodiorite
Basaltic Andesite	Sedimentary
Mudstone	Tuff
Lapilli Tuff	Metasomatic Rock
Sedimentary Sulphide	Overburden

Au Assay Values (ppm)

0 to 0.5	0.5 to 1
1 to 1.5	1.5 to 2
2 to 2.7	

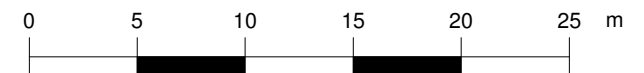
True North Nickel

QK-16-006 Drill Section

Section Looking West
(Azimuth 257)

Date: April 2017

Scale 1:350



Author: Arnaud Fontaine, géo # 1698

Hole Number: QK-16-001				Units: METRIC	
Project	Drilling		Collar		Coordinates
Project Number: Qiqavik Drilling	Making Water: N	OIH Comments:	NTS: 35G05	Collar Dip: -50.00	UTM Coordinates
Date Started: août 01, 2016	Gas Intersected: N		UTM Zone: UTM83-18	Collar Azi: 216.00	North: 6 818 337.27
Date Completed: août 04, 2016	Is Hole Plugged: N		Lot:	Length: 68.00	East: 447 748.59
Drilling Contractor: Major Drilling	Object in Hole: N	Material LIH:	Township:		Elev: 379.63
Survey Contractor:	Is Cemented: N		Range / Concession:		Logged By
Date Logged: août 1, 2016	Is Hole Blocked:		Claim Number: 2435191	Core Size: NQ	Geologist 1: A. Fontaine, Stag.
	Verified: N		Collar Survey Type: DGPS and APS	Casing Status: Left In Hole	Geologist 2:
					Geologist 3:
					Geologist 4:
					Resp. Person: M. Sciortino, Géo

Detailed Lithology						Mineralization					Alteration					
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity	
0.00	1.88	OB, Overburden				1.88	13.10	Pyrrhotite	Disseminated	0.01	1.88	13.10	Banded	Biotite	Strong	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
								Trace of Po					All tuff affected			
1.88	13.10	5V, Lapilli Tuff Lapilli Tuff heavily altered to biotite with a foliation all along the interval. There is some basalt flow of 10-20 cm intercal in interval with the interflow sediment. The foliation is more present in the interflow sediment.				13.10	14.64	Pyrrhotite	Stringer	5.00	1.88	68.00	Fracture/vein controlled	Carbonatization	Weak	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
		Not Oxidized	Foliated	Fine Grained	Medium	brown		Stringer of Po sometimes with As					Common late carbonated vein			
							13.10	13.20	Arsenopyrite	Stringer	10.00	13.10	20.51	Banded	Sericitization	Moderate
								Comments					Comments			
								Stringer of As with Po				13.10	20.51	Pervasive	Silicification	Strong
13.10	20.51	6R, Metasomatic Rock Heavily altered interval were the protolith (basalt) as been metasomatised by a hydrothermal fluid rich in silice. Presence of garnet and sericite. Presence of arsenopyrite on the top contact in the hole. Few disseminated sulphides of zinc, iron and arsenic along the interval.				14.64	20.51	Pyrrhotite	Fracture/vein controlled	0.50	20.51	28.16	Patchy	Biotite	Weak	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
		Not Oxidized	Foliated	Fine Grained	Light	grey-green		Concentration of Po in some fracture. Sometimes with Ccp and Sp				28.16	35.23	Pervasive	Silicification	Strong
							14.64	20.51	Sphalerite	Disseminated	0.05	28.16	35.23	Banded	Sericitization	Moderate
								Comments					Comments			
							14.64	20.51	Arsenopyrite	Disseminated	0.01	35.23	68.00	Spotted	Biotite	Weak
								Comments					Comments			
								Trace of arsenopyrite				40.00	68.00	Pervasive	Chloritization	Weak
20.51	23.49	2I, Basalt Basalt with pillow feature. Altered locally to biotite. Become more foliated down the hole.				14.64	20.51	Pyrrhotite	Disseminated	0.05				Comments		
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					pervasive chloritization in basalt.			
		Not Oxidized	Plagioclase phyric	Fine Grained	Medium	Grey		Very fine disseminated Po with Sp and As								
23.49	23.63	8G, Quartz Vein														

Hole Number: QK-16-001

Units: METRIC

Detailed Lithology						Mineralization				
From	To	Lithology				From	To	Type	Style	%
		Quartz vein sterile.				17.50	17.52	Chalcopyrite	Fracture/vein controlled	0.50
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized	Aphanitic	Very Fine Grained	Light			Ccp in a fracture		
23.63	28.16	2K, Schistose mafic volcanic Schistose mafic volcanic. The protolith (basalt mixed with interflow sediment) show high schistosity with biotite alteration. As we go down the hole; we see more arsenopyrite mineralization. The protolith is highly affected by the hydrothermal fluid as it approach it				20.51	24.20	Pyrrhotite	Banded	0.10
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized	Schistose	Fine Grained	Medium			Po in the matrix between the pillow in the basalt		
						24.20	27.50	Arsenopyrite	Disseminated	0.10
								Comments		
								Fine grain of As disseminated in the interval		
28.16	35.23	6R, Metasomatic Rock Same silicified hydrothermal fluid were the protolith has been metasomatised. We can see some protolith relics in some interval. Presence of sulphides stringer with Po in majority but some with sphalerite and arsenopyrite. Few disseminated sulphides of zinc, iron and arsenic along the interval.				24.20	27.50	Pyrrhotite	Disseminated	0.10
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized	Schistose	Fine Grained	Light			Disseminated Po. As associated with in band		
						24.20	27.50	Arsenopyrite	Banded	0.10
								Comments		
								Stringer band of As		
35.23	38.00	2K, Schistose mafic volcanic Schistose mafic volcanic. The hydrothermal fluid affect the protolith (Interflow sediment?) and disappear as we go down the hole. Few band of pyrrhotite and arsenopyrite. Some band of garnet (or hematization?)				27.50	28.16	Arsenopyrite	Banded	5.00
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized	Schistose	Fine Grained	Medium			Many band of As following the Schistosity		
						27.50	28.16	Pyrrhotite	Banded	2.00
								Comments		
								Same as As		
38.00	68.00	2I, Basalt Basalt with some interval of interflow sediment, most of the time mixed within the basalt.				28.16	31.26	Sphalerite	Disseminated	0.01
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized	Plagioclase phyrlic	Fine Grained	Medium			Trace of disseminated sulphides.		
						28.16	31.26	Arsenopyrite	Disseminated	0.01
								Comments		
								Trace of disseminated sulphides.		
						28.16	31.26	Pyrrhotite	Disseminated	0.01
								Comments		
								Trace of disseminated sulphides.		

Hole Number: QK-16-001

Units: METRIC

Mineralization					
From	To	Type	Style	%	
31.26	33.11	Arsenopyrite	Banded	0.10	
31.26	33.11	Pyrrhotite	Banded	1.00	
		Comments Band of Po sometimes with As			
33.11	35.23	Sphalerite	Disseminated	0.02	
		Comments Very fine disseminated grain of Sp			
33.11	35.23	Arsenopyrite	Disseminated	0.01	
		Comments Trace of fine disseminated As			
33.11	35.23	Pyrrhotite	Disseminated	0.05	
		Comments Very fine disseminated grain of Po			
35.23	43.00	Pyrrhotite	Banded	0.05	
		Comments Band of pyrrhottie that continues in the basalt			
35.23	36.00	Arsenopyrite	Banded	0.05	
		Comments Band of As associated with some Po band			
43.00	68.00	Pyrrhotite	Trace	0.01	
		Comments Trace of Po in basalt			

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
9.00	10.00	Q135701	ASSAY	0.001	0.50	0.01	0.01	0.00	5.55	8.84	3.12
12.00	13.13	Q135702	ASSAY	0.060	0.50	0.01	0.02	0.00	4.52	8.72	4.90
13.13	13.48	Q135703	ASSAY	0.862	0.50	0.02	0.02	0.00	1.08	6.45	2.54
13.48	15.00	Q135704	ASSAY	0.028	1.00	0.01	0.09	0.00	0.03	0.77	1.55
15.00	16.00	Q135705	ASSAY	0.019	0.50	0.01	0.13	0.00	0.03	0.70	1.18

Hole Number: QK-16-001

Units: METRIC

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
16.00	17.00	Q135706	ASSAY	0.008	0.50	0.01	0.05	0.00	0.03	0.75	1.03
17.00	18.00	Q135707	ASSAY	0.045	0.50	0.02	0.07	0.00	0.03	1.44	1.20
18.00	19.00	Q135708	ASSAY	0.018	0.50	0.01	0.12	0.00	0.03	1.00	1.52
19.00	20.00	Q135709	ASSAY	0.010	0.50	0.01	0.08	0.00	0.03	0.76	1.57
20.00	20.50	Q135711	ASSAY	0.010	1.00	0.01	0.08	0.00	0.07	0.94	1.34
20.50	21.50	Q135712	ASSAY	0.010	0.50	0.01	0.02	0.00	3.24	7.96	6.36
23.00	24.00	Q135713	ASSAY	0.051	0.50	0.00	0.02	0.00	3.39	6.74	5.50
24.00	25.00	Q135714	ASSAY	0.173	0.50	0.01	0.02	0.00	3.68	7.83	6.67
25.00	26.00	Q135715	ASSAY	1.070	1.00	0.01	0.02	0.00	3.98	8.73	6.11
26.00	27.00	Q135716	ASSAY	0.119	0.50	0.00	0.03	0.00	4.74	8.43	4.00
27.00	27.60	Q135717	ASSAY	0.202	0.50	0.00	0.03	0.00	4.66	8.33	3.30
27.60	28.16	Q135718	ASSAY	1.680	1.00	0.04	0.04	0.00	2.63	10.10	5.27
28.16	29.00	Q135719	ASSAY	0.027	0.50	0.01	0.04	0.00	0.03	0.75	0.85
29.00	30.00	Q135721	ASSAY	0.049	20.00	0.01	0.08	0.00	0.03	0.80	0.96
30.00	31.26	Q135722	ASSAY	0.075	1.00	0.01	0.05	0.00	0.05	0.85	0.38
31.26	32.00	Q135723	ASSAY	0.034	1.00	0.01	0.03	0.00	0.84	3.65	2.13
32.00	32.50	Q135724	ASSAY	0.027	0.50	0.01	0.01	0.00	2.40	5.79	4.88
32.50	33.50	Q135725	ASSAY	0.017	1.00	0.01	0.03	0.00	0.03	1.27	0.79
33.50	34.50	Q135726	ASSAY	0.033	0.50	0.01	0.05	0.00	0.06	1.05	0.86
34.50	35.25	Q135727	ASSAY	0.004	0.50	0.00	0.01	0.00	0.03	0.69	1.64
35.25	36.00	Q135728	ASSAY	0.010	0.50	0.02	0.02	0.00	1.82	9.05	9.43
36.00	37.00	Q135729	ASSAY	0.029	0.50	0.01	0.02	0.00	2.32	9.31	12.10
36.00	37.00	Q135730	DUP	0.013	0.50	0.01	0.02	0.00	2.41	9.34	12.60

Geotechnical							
From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
3.12	5.00	1.88	1.88	100.00	1.20	63.83	=00=
5.00	8.00	3.00	3.00	100.00	1.64	54.67	=000<
8.00	11.00	3.00	3.00	100.00	2.10	70.00	M>111.<
11.00	14.00	3.00	2.35	78.33	0.38	12.67	M>000<

Hole Number: QK-16-001

Units: METRIC

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
14.00	17.00	3.00	2.85	95.00	1.91	63.67	<1<11<
17.00	20.00	3.00	2.75	91.67	1.43	47.67	0<111<
20.00	23.00	3.00	3.05	101.67	2.15	71.67	M>.111<
23.00	26.00	3.00	3.10	103.33	2.70	90.00	M>111.<
26.00	29.00	3.00	3.00	100.00	1.70	56.67	M>001<
29.00	32.00	3.00	3.00	100.00	1.00	33.33	M>001<
32.00	35.00	3.00	2.84	94.67	1.00	33.33	N=001<
35.00	38.00	3.00	2.75	91.67	2.33	77.67	M>.111<
38.00	41.00	3.00	3.30	110.00	3.12	104.00	+20<111<
41.00	44.00	3.00	3.00	100.00	2.88	96.00	M>1.11<
44.00	47.00	3.00	3.05	101.67	2.98	99.33	M>111>
47.00	50.00	3.00	2.90	96.67	2.51	83.67	M>011<
50.00	53.00	3.00	2.95	98.33	2.70	90.00	M>001<
53.00	56.00	3.00	2.90	96.67	2.75	91.67	N=111<
56.00	59.00	3.00	3.05	101.67	2.93	97.67	M>1.11<
59.00	62.00	3.00	2.97	99.00	2.85	95.00	0<111<
62.00	65.00	3.00	3.00	100.00	2.64	88.00	M>1.11<
65.00	68.00	3.00	2.97	99.00	2.81	93.67	+3<111<

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
10.20	Foliation	45	80	216.00	-50.00	-62.44	357.77	0	87.77						
16.00	Foliation	55	80	216.00	-50.00	-55.70	349.14	0	79.14						
26.00	Schistosity	45	80	216.00	-50.00	-62.44	357.77	0	87.77						
31.66	Mineral lineation	40	80	216.00	-50.00	-65.99	1.68	0	91.68						
35.43	Schistosity	55	250	216.00	-50.00	-41.10	250.92	0	340.92						

ma

[illegible]

was

Hole Number: QK-16-002

Units: METRIC

Detailed Lithology							Mineralization				
From	To	Lithology					From	To	Type	Style	%
		Not Oxidized	Massive	Very Fine Grained	Light	Grey	76.58	77.43	Pyrite	Disseminated	0.25
43.23	46.00	2I, Basalt Schistose texture do to the granodiorite intrusion.					Comments Euhedral Pyrite				
		Oxidation	Texture	Grain Size	Tone	Colour	78.87	92.00	Pyrite	Disseminated	0.10
		Not Oxidized	Schistose	Very Fine Grained	Light	Grey	Comments Euhedral Pyrite				
46.00	75.71	3B, Granodiorite Massive granodiorite with disseminated euhedral Py									
		Oxidation	Texture	Grain Size	Tone	Colour					
		Not Oxidized	Massive	Medium Grained	Light	grey-green					
75.71	76.52	2I, Basalt Basalt with sheared texture. Healed									
		Oxidation	Texture	Grain Size	Tone	Colour					
		Not Oxidized	Sheared	Very Fine Grained	Medium	Grey					
76.52	77.43	3B, Granodiorite Same granodiorite but altered near the contact of both sheared basalt									
		Oxidation	Texture	Grain Size	Tone	Colour					
		Not Oxidized	Massive	Medium Grained	Light	grey-green					
77.43	78.87	2I, Basalt Another healed sheared basalt interval. Clear visible structure texture.									
		Oxidation	Texture	Grain Size	Tone	Colour					
		Not Oxidized	Sheared	Very Fine Grained	Medium	Grey					
78.87	92.00	3B, Granodiorite Same granodiorite but with basalt xenolith									
		Oxidation	Texture	Grain Size	Tone	Colour					
		Not Oxidized	Massive	Medium Grained	Light	green					

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Hole Number: QK-16-002

Units: METRIC

Sampling

From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
44.00	45.00	Q135731	ASSAY	0.014	0.50	0.01	0.02	0.00	7.32	8.96	6.99
45.00	46.00	Q135732	ASSAY	0.003	0.50	0.02	0.04	0.00	9.47	8.51	8.43
46.00	47.00	Q135733	ASSAY	0.045	0.50	0.00	0.01	0.00	0.40	3.02	3.13
70.50	70.77	P137833	WHO_ROCK								
74.71	75.71	Q135734	ASSAY	0.001	0.50	0.00	0.01	0.00	0.38	2.89	2.03
75.71	76.58	Q135735	ASSAY	0.001	0.50	0.01	0.02	0.00	6.87	8.40	2.82
76.58	77.35	Q135736	ASSAY	0.013	0.50	0.00	0.00	0.00	0.84	2.46	2.81
77.35	78.10	Q135737	ASSAY	0.019	0.50	0.01	0.01	0.00	7.03	6.09	8.04
78.10	78.85	Q135738	ASSAY	0.014	0.50	0.01	0.01	0.00	7.73	6.55	6.93
78.85	79.85	Q135739	ASSAY	0.001	0.50	0.00	0.01	0.00	1.65	3.48	2.52

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
2.21	5.00	2.79	2.79	100.00	2.11	75.63	=000<
5.00	8.00	3.00	3.04	101.33	2.57	85.67	M>.111<
8.00	11.00	3.00	3.08	102.67	2.48	82.67	0<111<
11.00	14.00	3.00	2.94	98.00	2.11	70.33	0<111<
14.00	17.00	3.00	2.98	99.33	2.54	84.67	M>111=
17.00	20.00	3.00	3.00	100.00	1.89	63.00	=000=
20.00	23.00	3.00	2.96	98.67	2.66	88.67	=111<
23.00	26.00	3.00	3.02	100.67	2.53	84.33	M>111<
26.00	29.00	3.00	2.85	95.00	2.65	88.33	M>11.1<M
29.00	32.00	3.00	3.10	103.33	2.84	94.67	<111<
32.00	35.00	3.00	2.64	88.00	2.42	80.67	+75<111<
35.00	38.00	3.00	3.22	107.33	3.00	100.00	+130<111<
38.00	41.00	3.00	3.08	102.67	2.28	76.00	M>11.1<
41.00	44.00	3.00	3.07	102.33	3.07	102.33	+70<111<
44.00	47.00	3.00	3.00	100.00	2.86	95.33	-30<111<
47.00	50.00	3.00	3.00	100.00	2.88	96.00	+10<111<

Hole Number: QK-16-002

Units: METRIC

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
50.00	53.00	3.00	3.00	100.00	2.83	94.33	+20<111<
53.00	56.00	3.00	2.97	99.00	2.44	81.33	M>1.11<
56.00	59.00	3.00	2.81	93.67	2.59	86.33	M>111.<M
59.00	62.00	3.00	3.15	105.00	2.84	94.67	<111<
62.00	65.00	3.00	3.00	100.00	2.76	92.00	+90<111<
65.00	68.00	3.00	3.12	104.00	2.34	78.00	0<111<
68.00	71.00	3.00	3.07	102.33	2.71	90.33	-40<111<
71.00	74.00	3.00	2.98	99.33	2.88	96.00	+20<111<
74.00	77.00	3.00	2.92	97.33	2.41	80.33	M>11.1<M
77.00	80.00	3.00	2.91	97.00	2.64	88.00	<111<
80.00	83.00	3.00	3.10	103.33	2.98	99.33	+20<111<
83.00	86.00	3.00	3.15	105.00	2.06	68.67	0<111<
86.00	89.00	3.00	3.00	100.00	2.55	85.00	=011<
89.00	92.00	3.00	3.00	100.00	2.97	99.00	0<111<

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
9.33	Contact	20	80	346.60	-50.20	-80.89	146.19	0	236.19						Contact between the flow part of the basalt and the massive part
32.56	Contact	45	60	346.60	-50.20	-71.52	116.82	0	206.82						contact between massive basalt and plagioclase phyric basalt
44.31	Schistosity	50	40	346.60	-50.20	-74.14	102.04	0	192.04						Schistosity in the basalt before the Granodiorite
46.00	Contact	40	340	346.60	-50.20	-88.11	61.40	0	151.40						Contact between basalt and Granodiorite
76.52	Contact	35	290	346.60	-50.20	-74.85	23.71	0	113.71						Lower contact of the first sheared basalt and the granodiorite
77.43	Contact	30	270	346.60	-50.20	-67.41	6.88	0	96.88						Lower contact of the granodiorite and the second sheared basalt
78.00	Shearing	45	270	346.60	-50.20	-57.09	19.22	0	109.22						Heal shear

Hole Number: QK-16-003				Units: METRIC	
Project	Drilling		Collar		Coordinates
Project Number: Qiqavik Drilling	Making Water: N	OIH Comments: Rod and ActIII Frozen. Lost Hole	NTS: 35G11	Collar Dip: -50.00	UTM Coordinates
Date Started: août 06, 2016	Gas Intersected: N		UTM Zone: UTM83-18	Collar Azi: 346.40	North: 6 825 354.36
Date Completed: août 07, 2016	Is Hole Plugged: N		Lot:	Length: 35.00	East: 483 724.60
Drilling Contractor: Major Drilling	Object in Hole: Y	Material LIH:	Township:		Elev: 431.73
Survey Contractor:	Is Cemented: N		Range / Concession:		Logged By
Date Logged: août 7, 2016	Is Hole Blocked:		Claim Number: 2334844	Core Size: BQ	Geologist 1: A. Fontaine, Stag.
	Verified: N		Collar Survey Type: DGPS and APS	Casing Status: Left In Hole	Geologist 2:
					Geologist 3:
					Geologist 4:
					Resp. Person: M. Sciortino, Géo

Detailed Lithology						Mineralization					Alteration				
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity
0.00	3.50	OB, Overburden				3.50	25.11	Pyrrhotite	Fracture/vein controlled	0.01	3.50	25.62	Pervasive	Chloritization	Strong
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments		
								Trace of Py and Po in some veins in the basalt					Medium chloritization of the basalt. Might be the results of the granodiorite or the proximity of the surface.		
3.50	25.62	2I, Basalt				3.50	25.11	Pyrite	Fracture/vein controlled	0.01	25.62	35.00	Pervasive	Chloritization	Weak
		Basalt with medium chloritization. No apparent texture up to 23.5. We can see a contact schistosity after. From 25.11 to 25.62, there is a cooked interval in the basalt by the granodiorite intrusion						Comments					Comments		
		Oxidation	Texture	Grain Size	Tone	Colour		Trace of Py and Po in some veins in the basalt					weak Chloritization in granodiorite		
		Not Oxidized	Fine grained	Very Fine Grained	Light	Grey									
25.62	35.00	3B, Granodiorite				25.62	35.00	Pyrrhotite	Disseminated	0.01					
		Granodiorite with basalt enclave in it. Some enclaves show plagioclase phyric texture.						Comments					Comments		
		Oxidation	Texture	Grain Size	Tone	Colour		Trace of disseminated Po in the granodiorite					weak Seritization in granodiorite		
		Not Oxidized	Massive	Medium Grained	Light	grey-green									

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
23.11	24.11	Q135741	ASSAY	0.003	0.50	0.01	0.01	0.00	10.15	9.64	7.90
24.11	25.11	Q135742	ASSAY	0.001	0.50	0.01	0.01	0.00	10.30	9.57	7.22
25.11	25.62	Q135743	ASSAY	0.037	0.50	0.01	0.01	0.00	2.78	7.76	4.12

Hole Number: QK-16-003

Units: METRIC

Sampling

From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
25.62	26.62	Q135744	ASSAY	0.027	0.50	0.00	0.01	0.00	0.24	3.49	2.31

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
3.50	5.00	1.50	1.50	100.00	0.11	7.33	=000=
5.00	8.00	3.00	2.93	97.67	1.71	57.00	=11<1<
8.00	11.00	3.00	2.93	97.67	2.63	87.67	M>00<0=
11.00	14.00	3.00	2.78	92.67	1.85	61.67	=000=
14.00	17.00	3.00	3.10	103.33	1.45	48.33	=001<M
17.00	20.00	3.00	3.00	100.00	2.18	72.67	<1<11<
20.00	23.00	3.00	3.30	110.00	2.47	82.33	-10<111<
23.00	26.00	3.00	3.06	102.00	2.17	72.33	0<111<
26.00	29.00	3.00	3.01	100.33	1.99	66.33	-10<111<
29.00	32.00	3.00	2.90	96.67	2.10	70.00	=111<M
32.00	35.00	3.00	3.00	100.00	2.80	93.33	<1<10<

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
24.32	Schistosity	35	35	346.40	-50.00	-89.54	104.43	0	194.43						Schistosity in the basalt near the contact.
25.11	Contact	35	35	346.40	-50.00	-89.54	104.43	0	194.43						Contact of the basalt and the cooked zone of the basalt
25.62	Contact	35	35	346.40	-50.00	-89.54	104.43	0	194.43						Contact of the cooked basalt and the granodiorite

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Detailed Lithology							Mineralization					Alteration				
From	To	Lithology					From	To	Type	Style	%	From	To	Style	Type	Intensity
0.00	2.30	OB, Overburden					17.00	41.00	Pyrrhotite	Fracture/vein controlled	0.05	2.30	95.00	Fracture/vein controlled	Carbonatization	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments					Comments		
									Po controlled by veins					Weak presence of Carbonatization in veins		
2.30	95.00	2I, Basalt Basalt with no apparent texture. Po and Ccp start to appear in veins at 17m					17.00	41.00	Chalcopyrite	Fracture/vein controlled	0.01	2.30	95.00	Pervasive	Chloritization	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments					Comments		
		Not Oxidized	Massive	Very Fine Grained	Light	Grey			Ccp controlled by some veins					Weak pervasive chloritization in basalt		
95.00	129.05	2I, Basalt Basalt with a beginning of hydrothermal alteration. We can see some fluid movement and some places show a schistosity in the fluid movement.					41.00	95.00	Pyrrhotite	Fracture/vein controlled	0.01	95.00	135.00	Fracture/vein controlled	Sericitization	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments					Comments		
		Not Oxidized		Very Fine Grained	Light	grey-green			Trace of Po in Veins					Presence of seritization in some band were the fluid has passed		
129.05	130.24	1, Mafic or Ultramafic Intrusive Mafic Dyke					95.00	129.05	Pyrrhotite	Disseminated	0.05	95.00	135.00	Fracture/vein controlled	Carbonatization	Moderate
		Oxidation	Texture	Grain Size	Tone	Colour			Comments					Comments		
		Not Oxidized	Massive	Fine Grained	Dark	Grey			Very fine disseminated grains of Po inside the unit					Weak to moderate presence of carbonate in veins		
130.24	135.00	2I, Basalt Basalt with hydrothermal lateration. Ban of silicification, carbonatization and chloritization.					129.05	130.46	Pyrrhotite	Disseminated	0.10	95.00	135.00	Pervasive	Chloritization	Moderate
		Oxidation	Texture	Grain Size	Tone	Colour			Comments					Comments		
									Disseminated Po in the dyke					Moderate chloritization in the basalt with fluid movement		
												133.00	135.00	Banded	Silicification	Weak
														Comments		
														Some silicified band at the end of the hole		

Hole Number: QK-16-004

Units: METRIC

Detailed Lithology

From	To	Lithology
		Not Oxidized
		Very Fine Grained
		Light grey-green

Sampling

From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
15.00	16.00	Q135745	ASSAY	0.011	0.50	0.02	0.03	0.00	5.72	9.21	6.38
35.00	36.00	Q135746	ASSAY	0.001	0.50	0.01	0.01	0.00	3.00	9.02	6.62
55.00	56.00	Q135747	ASSAY	0.014	0.50	0.06	0.02	0.00	5.49	9.36	9.05
76.00	77.00	Q135748	ASSAY	0.003	0.50	0.01	0.01	0.00	2.99	8.59	7.08
98.00	99.00	Q135749	ASSAY	0.002	0.50	0.01	0.01	0.00	4.30	6.42	7.36
98.00	99.00	Q135750	DUP	0.004	0.50	0.01	0.01	0.00	4.32	6.58	7.34
119.00	120.00	Q135051	ASSAY	0.002	0.50	0.01	0.01	0.00	4.35	6.47	8.74
128.05	129.05	Q135052	ASSAY	0.001	0.50	0.01	0.01	0.00	9.48	6.94	8.48
129.05	130.46	Q135053	ASSAY	0.001	0.50	0.00	0.01	0.00	2.50	5.46	5.35
130.46	131.46	Q135054	ASSAY	0.002	0.50	0.01	0.01	0.00	7.49	6.48	11.00

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
2.30	5.00	2.70	2.70	100.00	2.20	81.48	=000=
5.00	8.00	3.00	3.00	100.00	2.43	81.00	=001<
8.00	11.00	3.00	2.85	95.00	2.25	75.00	M>001<
11.00	14.00	3.00	2.90	96.67	2.70	90.00	-20<111<
14.00	17.00	3.00	3.05	101.67	2.63	87.67	0<111<
17.00	20.00	3.00	3.16	105.33	2.98	99.33	-16<11<.1<M
20.00	23.00	3.00	3.00	100.00	2.82	94.00	<111<
23.00	26.00	3.00	3.05	101.67	2.80	93.33	M>1.11<
26.00	29.00	3.00	3.00	100.00	2.82	94.00	+18<111<
29.00	32.00	3.00	2.92	97.33	2.87	95.67	-18<111<
32.00	35.00	3.00	3.02	100.67	2.67	89.00	M>111>
35.00	38.00	3.00	2.99	99.67	2.61	87.00	M>.111<

Hole Number: QK-16-004

Units: METRIC

Geotechnical							
From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
38.00	41.00	3.00	3.00	100.00	2.64	88.00	-60<111<
41.00	44.00	3.00	3.12	104.00	3.02	100.67	+36<111<
44.00	47.00	3.00	3.08	102.67	3.00	100.00	0<111<
47.00	50.00	3.00	2.97	99.00	2.64	88.00	0<111<
50.00	53.00	3.00	3.00	100.00	2.81	93.67	+20<111<
53.00	56.00	3.00	3.05	101.67	2.65	88.33	0<111<
56.00	59.00	3.00	3.02	100.67	2.75	91.67	0<111<
59.00	62.00	3.00	3.00	100.00	2.82	94.00	+10<111<
62.00	65.00	3.00	2.97	99.00	2.66	88.67	0<111<
65.00	68.00	3.00	3.00	100.00	2.85	95.00	-20<111<
68.00	71.00	3.00	3.07	102.33	2.98	99.33	-50<111<
71.00	74.00	3.00	2.97	99.00	2.89	96.33	+130<111<
74.00	77.00	3.00	2.98	99.33	2.74	91.33	0<111<
77.00	80.00	3.00	3.13	104.33	2.80	93.33	M>11.1<
80.00	83.00	3.00	2.87	95.67	2.78	92.67	0<111<
83.00	86.00	3.00	2.94	98.00	2.86	95.33	M>1.11<
86.00	89.00	3.00	3.02	100.67	2.67	89.00	+10<111<
89.00	92.00	3.00	3.00	100.00	2.69	89.67	0<111<
92.00	95.00	3.00	3.03	101.00	2.21	73.67	M>100<
95.00	98.00	3.00	3.00	100.00	2.90	96.67	-16<111<
98.00	101.00	3.00	3.04	101.33	2.54	84.67	M>000<
101.00	104.00	3.00	3.02	100.67	2.78	92.67	0<111<
104.00	107.00	3.00	3.00	100.00	2.77	92.33	0<111<
107.00	110.00	3.00	3.02	100.67	2.80	93.33	0<111<
110.00	113.00	3.00	2.99	99.67	2.67	89.00	0<111<
113.00	116.00	3.00	3.00	100.00	2.96	98.67	+36<111<
116.00	119.00	3.00	2.90	96.67	2.77	92.33	-64<111<
119.00	122.00	3.00	3.07	102.33	2.95	98.33	0<111<

Hole Number: QK-16-004

Units: METRIC

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
122.00	125.00	3.00	2.97	99.00	2.92	97.33	0<111<
125.00	128.00	3.00	3.12	104.00	2.95	98.33	M>1.11<
128.00	131.00	3.00	2.95	98.33	2.48	82.67	-8<111<
131.00	134.00	3.00	3.00	100.00	2.91	97.00	M>11.1<
134.00	135.00	1.00	1.20	120.00	0.70	70.00	M>1=

Structure

From	To	Structure	Alpha	Beta	Fill Material 1	Fill Material 2	Comments
94.66	94.72	Fault	90.00	0.00			Fault in basalt wih broken core. Almost the gouge
100.40	100.68	Fault					Fault partially healed. Weathering (oxidation)

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
129.05	Contact	45	215	168.50	-50.00	-23.94	170.03	0	260.03						Top contact of the dyke

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Hole Number: QK-16-005

Units: METRIC

Project	Drilling	Collar	Coordinates
Project Number: Qiqavik Drilling Date Started: août 11, 2016 Date Completed: août 13, 2016 Drilling Contractor: Major Drilling Survey Contractor: Date Logged: août 12, 2016	Making Water: N OIH Comments: Gas Intersected: N Is Hole Plugged: N Object in Hole: N Material LIH: Is Cemented: N Is Hole Blocked: Verified: N	NTS: 35G11 Collar Dip: -50.00 UTM Zone: UTM83-18 Collar Azi: 168.00 Lot: Length: 164.00 Township: Range / Concession: Claim Number: 2334848 Core Size: NQ Collar Survey Type: DGPS and APS Casing Status: Left In Hole	UTM Coordinates North: 6 825 513.90 East: 485 526.00 Elev: 444.00 Logged By Geologist 1: A. Fontaine, Stag. Geologist 2: Geologist 3: Geologist 4: Resp. Person: M. Sciortino, Géo

Detailed Lithology						Mineralization					Alteration					
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity	
0.00	3.33	OB, Overburden				5.00	16.00	Pyrrhotite	Fracture/vein controlled	0.20	3.33	21.00	Fracture/vein controlled	Chloritization	Moderate	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
								Po concentrated in band inside the carbonated hydrothermal fluid					Chlorite in the contatc of the hydrothermal fluid.			
3.33	68.72	4A, Basaltic andesite Flow banded Basalt with two hydorthemral fluid passing in the interval, one carbonated and the other with albite alteration. Some flow are plagioclase phyric, other masive. Pervasive alteration of chlorite and sericite. The carbonated hydrothermal fluid is mineralized with Po, Ccp and Py.				7.00	16.00	Chalcopyrite	Fracture/vein controlled	0.10	3.33	68.72	Fracture/vein controlled	Carbonatizati on	Strong	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
		Not Oxidized	Flow banded	Very Fine Grained	Light	Grey		Ccp concentrated inside the carbonated hydrothermal fluid					Carbonated hydrothermal fluid.			
							7.00	16.00	Pyrite	Fracture/vein controlled	0.01	3.33	21.00	Fracture/vein controlled	Albitization	Moderate
								Comments					Comments			
								Py concentrated inside the carbonated hydrothermal fluid					Albitization with the hydrothermal fluid			
68.72	69.00	6R, Metasomatic Rock Metasomatized interval with carbonate and magnetite. Weak mineralization on the edge. Same fluid as the one present inside the basalt				16.00	26.00	Pyrrhotite	Trace	0.01	3.33	68.72	Pervasive	Sericitization	Weak	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
		Not Oxidized		Fine Grained	Light	grey-green		Trace of Po in basalt					Seritization in the basalt			
							26.00	36.00	Pyrrhotite	Fracture/vein controlled	0.10	3.33	68.72	Pervasive	Chloritization	Weak
								Comments					Comments			
								Band of Po inside veins of the carbonated fluid					Pervasive chloritization in the basalt.			
69.00	85.65	2I, Basalt Basalt altered by hydorthermal fluid (Carbonatization and Albitization). Mineralization associated with the hydrothermal fluid. Some place are highly affected by the fluid that there is metasomatism with the basalt.				26.00	36.00	Pyrite	Fracture/vein controlled	0.20	21.00	68.72	Fracture/vein controlled	Albitization	Weak	
		Oxidation	Texture	Grain Size	Tone	Colour		Comments					Comments			
		Not Oxidized		Very Fine Grained	Medium	Grey							Some Albitization reliated with the hydrothermal fluids			
85.65	85.92	6R, Metasomatic Rock														

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Units: METRIC

Detailed Lithology						Mineralization					Alteration				
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity
		Metasomatized interval with carbonate and magnetite. Weak mineralization on the edge. Same fluid as the one present inside the basalt						Comments Band of Py inside veins of the carbonated fluid			68.72	69.00	Banded	Magnetite	Moderate
		Oxidation	Texture	Grain Size	Tone			Comments Magnetite in the metasomatised fluid							
		Not Oxidized		Fine Grained	Light	26.00	36.00	Chalcopyrite	Fracture/vein controlled	0.05	68.72	69.00	Banded	Carbonatization	Strong
85.92	109.44	2I, Basalt Basalt with high alteration of the hydrothermal fluid. Some interval are silicified. Higher metasomatism.						Comments Band of Ccp inside veins of the carbonated fluid							
		Oxidation	Texture	Grain Size	Tone	36.00	39.50	Pyrrhotite	Trace	0.01	69.00	85.65	Pervasive	Sericitization	Weak
		Not Oxidized		Very Fine Grained	Medium			Comments Pervasive sericite in the basalt							
109.44	112.50	7C, Sedimentary Sulphide Inter flow sediment with aminated pyrrhotite and chalcopyrite. The bottom of the unit is more silicified (Hornfels)				39.50	42.50	Pyrrhotite	Fracture/vein controlled	0.02	69.00	85.65	Fracture/vein controlled	Carbonatization	Moderate
		Oxidation	Texture	Grain Size	Tone			Comments Presence of Po in veins.							
		Not Oxidized	Laminated	Very Fine Grained	Medium	39.50	42.50	Pyrite	Fracture/vein controlled	0.02					
								Comments Presence of Py in veins.			69.00	85.65	Pervasive	Chloritization	Moderate
112.50	120.00	1, Mafic or Ultramafic Intrusive Altered pyroxenite and gabbro metamorphosed between greenschist and amphibolite. Progressive contact and unclear due to the alteration.				39.50	42.50	Chalcopyrite	Fracture/vein controlled	0.01					
		Oxidation	Texture	Grain Size	Tone			Comments Presence of Ccp in veins.			85.65	85.92	Banded	Carbonatization	Strong
		Not Oxidized		Medium Grained	Light			Comments Carbonate in the metasomatised fluid							
120.00	121.28	1K, Gabbro Dyke of very fine to fine grained gabbro				42.50	44.50	Pyrrhotite	Trace	0.01	85.65	85.92	Banded	Magnetite	Moderate
		Oxidation	Texture	Grain Size	Tone			Comments Magnetite in the metasomatised fluid							
		Not Oxidized	Massive	Fine Grained	Medium	44.50	68.72	Pyrrhotite	Fracture/vein controlled	0.01	85.92	109.44	Pervasive	Sericitization	Weak
								Comments Pervasive sericite in the basalt							
121.28	158.82	1, Mafic or Ultramafic Intrusive Altered pyroxenite and gabbro metamorphosed between greenschist and amphibolite. Progressive contact and unclear due to the alteration. Gabbro less altered 154.20 to 158.				44.50	68.72	Pyrite	Fracture/vein controlled	0.30	85.92	109.44	Fracture/vein controlled	Carbonatization	Moderate
		Oxidation	Texture	Grain Size	Tone			Comments Pyrite in veins. Dominant							
		Not Oxidized		Medium Grained	Light	44.50	68.72	Chalcopyrite	Fracture/vein controlled	0.02					
								Comments Presence of Ccp with the pyrite			85.92	109.44	Spotted	Silicification	Weak
158.82	164.00	2T, Fragmental mafic volcanic Interflow sediments altered. Weak lamination. Some interval show pyrrhotite lamination.				69.00	109.44	Pyrrhotite	Fracture/vein controlled	0.01					
		Oxidation	Texture	Grain Size	Tone			Comments Start of silicification in some basalt interval							

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Units: METRIC

Detailed Lithology						Mineralization					Alteration				
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity
		Not Oxidized	Laminated	Very Fine Grained	Light grey-green			Comments Trace of Po with the Py			85.92	109.44	Pervasive	Chloritization	Moderate
								Comments Pervasive chlorite in the basalt							
						69.00	109.44	Chalcopyrite	Fracture/vein controlled	0.05	85.92	109.44	Fracture/vein controlled	Albitization	Weak
								Comments Ccp with the Py						Comments Albitization associated to the hydrothermal fluid	
						69.00	109.44	Pyrite	Fracture/vein controlled	0.50	109.44	112.45	Banded	Graphitic	Weak
								Comments Py associated with the hydrothermal fluid. Some intervals show more Py. Some As associated around 75.					Comments Graphite in the interflow sediment banded with the Po		
						109.44	112.50	Chalcopyrite	Bedded	0.50	111.60	112.45	Spotted	Silicification	Strong
								Comments Some Ccp laminated with the Po					Comments Silicification of the sediments in contact with the basalt (Hornfleds)		
						109.44	112.50	Pyrrhotite	Bedded	20.00	112.45	120.00	Pervasive	Chloritization	Moderate
								Comments Bedded Po in the graphitic interflow sediment			120.00	121.28	Pervasive	Chloritization	Weak
						112.50	120.00	Pyrite	Trace	0.01			Comments Small chloritization in the dyke		
								Comments Trace of pyrite			121.28	158.82	Pervasive	Chloritization	Moderate
						120.00	121.28	Pyrrhotite	Disseminated	0.50	121.28	158.82	Pervasive	Serpentinization	Moderate
								Comments Disseminated Po in the dyke					Comments Serpentinization of the ultramafics		
						120.00	121.28	Pyrite	Disseminated	0.10	158.82	164.00	Pervasive	Chloritization	Weak
								Comments Disseminated Py in the dyke					Comments Pervasive chloritization of the interflow sediment		
						121.28	158.82	Pyrite	Trace	0.01	158.82	164.00	Fracture/vein controlled	Silicification	Moderate
						158.82	164.00	Chalcopyrite	Bedded	0.01			Comments veins more silicified		
								Comments Presence of Ccp							
						158.82	164.00	Pyrrhotite	Bedded	1.00					

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Units: METRIC

	Mineralization					
	From	To	Type	Style	%	
	Comments					
			Bedded Po in the interflow sediement. Some interval show more Po depending on the type of sediment			

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
7.00	8.00	Q135055	ASSAY	0.001	0.50	0.01	0.01	0.00	4.57	7.41	4.61
8.00	9.00	Q135056	ASSAY	0.003	0.50	0.01	0.01	0.00	4.73	8.94	5.89
9.00	10.00	Q135057	ASSAY	0.005	0.50	0.03	0.02	0.00	3.77	10.55	12.25
10.00	11.00	Q135058	ASSAY	0.003	0.50	0.02	0.01	0.00	4.52	9.46	7.27
11.00	12.00	Q135059	ASSAY	0.011	0.50	0.01	0.01	0.00	4.56	7.33	7.98
12.00	13.00	Q135061	ASSAY	0.002	0.50	0.01	0.01	0.00	4.37	9.22	7.37
13.00	14.00	Q135062	ASSAY	0.004	0.50	0.01	0.01	0.00	4.30	8.35	8.32
14.00	15.00	Q135063	ASSAY	0.002	0.50	0.02	0.01	0.00	4.79	8.74	7.74
25.00	26.00	Q135064	ASSAY	0.004	0.50	0.01	0.01	0.00	7.46	8.51	8.45
26.00	27.00	Q135065	ASSAY	0.033	0.50	0.02	0.01	0.00	8.04	8.52	9.92
27.00	27.50	Q135066	ASSAY	0.008	0.50	0.02	0.01	0.00	7.64	9.75	9.71
27.50	28.30	Q135067	ASSAY	0.004	0.50	0.03	0.01	0.00	7.56	9.21	11.40
28.30	29.00	Q135068	ASSAY	0.016	0.50	0.02	0.01	0.00	6.25	9.69	7.51
29.00	30.00	Q135069	ASSAY	0.016	0.50	0.03	0.02	0.00	6.20	9.64	7.54
30.00	31.00	Q135071	ASSAY	0.012	0.50	0.02	0.01	0.00	6.28	9.49	9.34
31.00	32.00	Q135072	ASSAY	0.006	0.50	0.02	0.01	0.00	5.39	9.89	9.47
32.00	33.00	Q135073	ASSAY	0.013	0.50	0.03	0.01	0.00	5.32	10.25	8.77
33.00	34.00	Q135074	ASSAY	0.007	0.50	0.02	0.01	0.00	6.47	9.83	8.60
34.00	35.00	Q135075	ASSAY	0.014	0.50	0.03	0.01	0.00	6.96	10.30	7.99
35.00	36.00	Q135076	ASSAY	0.003	0.50	0.01	0.01	0.00	9.61	9.29	8.30
39.50	40.50	Q135077	ASSAY	0.002	0.50	0.01	0.01	0.00	0.84	5.52	3.72
40.50	41.50	Q135078	ASSAY	0.020	0.50	0.02	0.01	0.00	1.04	5.78	3.64
41.50	42.50	Q135079	ASSAY	0.014	0.50	0.01	0.01	0.00	6.16	9.01	8.77
41.50	42.50	Q135080	DUP	0.008	0.50	0.01	0.01	0.00	6.78	9.75	9.46

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Units: METRIC

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
42.50	43.50	Q135081	ASSAY	0.005	0.50	0.01	0.01	0.00	7.01	9.46	8.47
43.50	44.50	Q135082	ASSAY	0.001	0.50	0.00	0.01	0.00	4.09	8.16	4.30
44.50	45.00	Q135083	ASSAY	0.016	0.50	0.04	0.01	0.00	3.10	7.75	4.59
45.00	46.00	Q135084	ASSAY	0.004	0.50	0.01	0.01	0.00	8.30	9.84	6.96
46.00	47.00	Q135085	ASSAY	0.006	0.50	0.00	0.01	0.00	3.34	7.35	3.32
47.00	48.00	Q135086	ASSAY	0.014	0.50	0.05	0.01	0.00	5.62	9.63	6.67
48.00	49.00	Q135087	ASSAY	0.010	0.50	0.04	0.01	0.00	4.39	9.50	7.90
49.00	50.00	Q135088	ASSAY	0.011	0.50	0.03	0.01	0.00	5.04	10.50	8.57
50.00	51.00	Q135089	ASSAY	0.003	0.50	0.01	0.01	0.00	8.62	9.19	10.85
51.00	52.00	Q135091	ASSAY	0.002	0.50	0.02	0.01	0.00	8.67	9.93	8.20
52.00	52.75	Q135092	ASSAY	0.005	0.50	0.02	0.02	0.00	4.65	10.55	8.36
52.75	53.25	Q135093	ASSAY	0.005	0.50	0.09	0.02	0.00	5.52	12.45	11.20
53.25	54.00	Q135094	ASSAY	0.001	0.50	0.01	0.01	0.00	3.94	11.15	9.71
54.00	55.00	Q135095	ASSAY	0.007	0.50	0.04	0.02	0.00	5.30	9.90	8.69
55.00	56.00	Q135096	ASSAY	0.007	0.50	0.02	0.02	0.00	6.33	10.10	9.18
56.00	57.50	Q135097	ASSAY	0.003	0.50	0.01	0.01	0.00	8.20	9.57	9.67
57.50	59.00	Q135098	ASSAY	0.003	0.50	0.02	0.01	0.00	10.70	9.97	8.43
59.00	60.50	Q135099	ASSAY	0.001	0.50	0.00	0.01	0.00	9.54	9.17	9.73
60.50	62.00	Q135201	ASSAY	0.004	0.50	0.02	0.01	0.00	11.15	8.54	8.23
65.00	66.50	Q135202	ASSAY	0.002	0.50	0.01	0.01	0.00	5.84	10.45	8.44
66.50	68.00	Q135203	ASSAY	0.001	0.50	0.01	0.01	0.00	7.13	10.15	9.24
68.00	68.72	Q135204	ASSAY	0.005	0.50	0.01	0.01	0.00	11.45	9.82	8.39
68.72	69.22	Q135205	ASSAY	0.003	0.50	0.02	0.01	0.00	10.70	7.28	14.25
69.22	70.00	Q135206	ASSAY	0.002	0.50	0.01	0.02	0.00	9.81	8.37	11.45
70.00	71.00	Q135207	ASSAY	0.006	0.50	0.02	0.01	0.00	10.40	8.70	9.81
71.00	72.00	Q135208	ASSAY	0.004	0.50	0.01	0.01	0.00	9.79	9.53	8.50
72.00	73.40	Q135209	ASSAY	0.008	0.50	0.01	0.01	0.00	11.15	9.78	6.20
73.40	74.65	Q135211	ASSAY	0.007	0.50	0.02	0.01	0.00	9.89	9.98	6.72
74.65	75.15	Q135212	ASSAY	0.013	0.50	0.02	0.01	0.00	6.05	9.11	6.18

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Units: METRIC

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
75.15	76.00	Q135213	ASSAY	0.004	0.50	0.00	0.01	0.00	4.49	7.40	3.66
76.00	77.50	Q135214	ASSAY	0.007	0.50	0.01	0.01	0.00	8.40	8.18	6.14
77.50	78.89	Q135215	ASSAY	0.020	0.50	0.00	0.02	0.00	10.85	9.80	6.61
78.89	79.69	Q135216	ASSAY	0.012	0.50	0.01	0.02	0.00	10.20	8.24	8.85
79.69	81.00	Q135217	ASSAY	0.002	0.50	0.02	0.01	0.00	9.41	8.75	6.70
85.40	86.00	Q135218	ASSAY	0.077	0.50	0.01	0.01	0.00	8.22	7.26	15.80
86.00	87.50	Q135219	ASSAY	0.023	0.50	0.01	0.02	0.00	6.41	7.49	9.86
86.00	87.50	Q135220	DUP	0.042	0.50	0.01	0.02	0.00	6.13	7.37	9.44
87.50	89.00	Q135221	ASSAY	0.112	0.50	0.01	0.02	0.00	9.51	9.19	8.77
89.00	90.00	Q135222	ASSAY	0.055	0.50	0.01	0.02	0.00	9.48	9.49	9.91
90.00	91.00	Q135223	ASSAY	0.201	0.50	0.01	0.02	0.00	8.42	8.48	10.25
91.00	92.00	Q135224	ASSAY	0.010	0.50	0.00	0.01	0.00	4.95	7.68	4.42
92.00	93.00	Q135225	ASSAY	0.016	0.50	0.02	0.01	0.00	7.66	7.94	10.45
93.00	94.00	Q135226	ASSAY	0.010	0.50	0.01	0.02	0.00	6.92	9.12	8.38
94.00	95.00	Q135227	ASSAY	0.008	0.50	0.02	0.02	0.00	7.82	8.86	8.49
95.00	96.00	Q135228	ASSAY	0.013	0.50	0.02	0.02	0.00	7.41	9.06	7.80
96.00	97.00	Q135229	ASSAY	0.004	0.50	0.02	0.02	0.00	5.73	9.45	8.22
97.00	98.00	Q135231	ASSAY	0.006	0.50	0.02	0.03	0.00	6.03	9.74	7.45
98.00	99.00	Q135232	ASSAY	0.006	0.50	0.02	0.02	0.00	5.78	9.33	8.73
99.00	100.00	Q135233	ASSAY	0.008	0.50	0.02	0.02	0.00	6.33	9.28	7.50
100.00	100.62	Q135234	ASSAY	0.032	0.50	0.01	0.02	0.00	9.50	9.40	7.44
100.62	102.15	Q135235	ASSAY	0.215	0.50	0.02	0.02	0.00	11.05	9.00	7.61
102.15	103.50	Q135236	ASSAY	0.042	0.50	0.01	0.02	0.00	8.22	9.83	7.52
103.50	105.00	Q135237	ASSAY	0.269	0.50	0.01	0.01	0.00	12.80	9.45	5.52
105.00	106.50	Q135238	ASSAY	0.007	0.50	0.01	0.01	0.00	6.04	8.18	6.96
106.50	108.00	Q135239	ASSAY	0.003	0.50	0.01	0.01	0.00	7.22	8.48	7.86
108.00	109.46	Q135241	ASSAY	0.002	0.50	0.01	0.01	0.00	6.58	8.53	7.24
109.46	110.50	Q135242	ASSAY	0.070	0.50	0.02	0.01	0.00	3.83	25.10	2.26
110.50	111.60	Q135243	ASSAY	0.259	1.00	0.01	0.02	0.00	3.82	29.60	1.79

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Units: METRIC

Sampling

From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
111.60	112.50	Q135244	ASSAY	0.434	0.50	0.01	0.01	0.00	3.51	22.00	2.51
112.50	113.39	Q135245	ASSAY	0.001	0.50	0.01	0.01	0.00	8.50	9.29	4.16
158.84	159.34	Q135246	ASSAY	0.055	0.50	0.03	0.02	0.00	4.63	11.75	6.67
163.00	164.00	Q135247	ASSAY	0.325	0.50	0.02	0.01	0.00	4.26	14.05	5.10

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
3.30	5.00	1.70	1.77	104.12	1.27	74.71	=11<M
5.00	8.00	3.00	3.20	106.67	2.70	90.00	<111<
8.00	11.00	3.00	2.91	97.00	2.75	91.67	-60<111<
11.00	14.00	3.00	2.92	97.33	2.41	80.33	-90<111<
14.00	17.00	3.00	2.90	96.67	1.80	60.00	M>100=
17.00	20.00	3.00	2.81	93.67	1.51	50.33	=000=
20.00	23.00	3.00	2.93	97.67	1.84	61.33	=011<
23.00	26.00	3.00	3.00	100.00	2.19	73.00	M>11.1<
26.00	29.00	3.00	2.96	98.67	2.76	92.00	M>11.1<
29.00	32.00	3.00	3.07	102.33	2.82	94.00	M>1.11<
32.00	35.00	3.00	2.97	99.00	2.88	96.00	-64<111<
35.00	38.00	3.00	3.00	100.00	2.10	70.00	M>100<
38.00	41.00	3.00	3.05	101.67	2.78	92.67	-20<111<
41.00	44.00	3.00	2.87	95.67	1.77	59.00	M>1.11<
44.00	47.00	3.00	3.04	101.33	2.18	72.67	M>110<
47.00	50.00	3.00	3.01	100.33	2.77	92.33	M>111.<
50.00	53.00	3.00	3.00	100.00	2.80	93.33	M>111=
53.00	56.00	3.00	2.90	96.67	2.75	91.67	=000<
56.00	59.00	3.00	3.20	106.67	2.87	95.67	M>110=
59.00	62.00	3.00	2.92	97.33	1.15	38.33	=001<
62.00	65.00	3.00	2.98	99.33	2.83	94.33	0<111<
65.00	68.00	3.00	3.10	103.33	2.68	89.33	0<111<

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Units: METRIC

Geotechnical							
From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
68.00	71.00	3.00	2.98	99.33	2.65	88.33	+20<111<
71.00	74.00	3.00	2.93	97.67	2.83	94.33	-10<111<
74.00	77.00	3.00	2.92	97.33	2.72	90.67	-20<111<
77.00	80.00	3.00	3.03	101.00	2.25	75.00	M<111<
80.00	83.00	3.00	2.92	97.33	2.50	83.33	M>11.1<
83.00	86.00	3.00	3.00	100.00	2.61	87.00	-70<111<
86.00	89.00	3.00	3.06	102.00	2.92	97.33	0<111<
89.00	92.00	3.00	2.97	99.00	2.86	95.33	0<111<
92.00	95.00	3.00	2.97	99.00	2.77	92.33	0<111<
95.00	98.00	3.00	3.03	101.00	2.68	89.33	M>1.11<
98.00	101.00	3.00	2.93	97.67	2.42	80.67	-112<111<
101.00	104.00	3.00	2.65	88.33	1.50	50.00	=000<
104.00	107.00	3.00	3.01	100.33	1.20	40.00	M>000<
107.00	110.00	3.00	2.57	85.67	1.87	62.33	M>100<
110.00	113.00	3.00	3.00	100.00	0.53	17.67	=000=
113.00	116.00	3.00	3.09	103.00	1.34	44.67	=000<
116.00	119.00	3.00	2.90	96.67	1.71	57.00	M>000=
119.00	122.00	3.00	2.88	96.00	2.00	66.67	=000<
122.00	125.00	3.00	3.03	101.00	1.80	60.00	M>110<
125.00	128.00	3.00	3.00	100.00	2.40	80.00	M>110<
128.00	131.00	3.00	2.97	99.00	2.30	76.67	=111<
131.00	134.00	3.00	2.92	97.33	2.40	80.00	-12<111<
134.00	137.00	3.00	2.97	99.00	2.61	87.00	M>111.<
137.00	140.00	3.00	3.00	100.00	2.58	86.00	0<111<
140.00	143.00	3.00	3.10	103.33	2.52	84.00	M>110<
143.00	146.00	3.00	3.02	100.67	2.27	75.67	M>001<
146.00	149.00	3.00	2.97	99.00	2.40	80.00	M>1.11<
149.00	152.00	3.00	3.08	102.67	2.98	99.33	M>11.1<

ms

Hole Number: QK-16-005

Units: METRIC

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
152.00	155.00	3.00	2.97	99.00	2.82	94.00	M>1.11<
155.00	158.00	3.00	2.92	97.33	2.90	96.67	M>111.<
158.00	161.00	3.00	3.02	100.67	2.87	95.67	M>1.11<
161.00	164.00	3.00	3.00	100.00	2.88	96.00	-80<111<

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
41.66	Flow banding	40	40	168.00	-50.00	-83.38	287.72	0	17.72						Bottom contact of the plagioclase phyric basalt
69.00	Contact	55	10	168.00	-50.00	-74.67	263.93	0	353.93						Contact of the metasomatism hydrothermal fluid
110.10	Lamination	48													Lamination in the interflow sediment
158.90	Contact	44	20	168.00	-50.00	-84.40	272.31	0	2.31						Contact between the ultramafic and the sediments
163.50	Bedding	50	70	168.00	-50.00	-63.54	300.43	0	30.43						Bedding of the altered sediment

ms

Detailed Lithology							Mineralization					Alteration				
From	To	Lithology					From	To	Type	Style	%	From	To	Style	Type	Intensity
0.00	3.00	OB, Overburden					3.00	10.00	Pyrrhotite	Bedded	0.10	3.00	35.40	Fracture/vein controlled	Carbonatization	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments Beds of Po in the mudstone					Comments Presence of carbonated veins		
3.00	10.00	5D, Mudstone Mudstone with intervals of lapili tuff. Evidence polarity is inverted (From top to the bottom)					3.00	4.63	Chalcopyrite	Bedded	0.10	3.00	15.60	Banded	Graphitic	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments Presence of Ccp in a be of Po					Comments Graphitization of the mudstone		
		Not Oxidized	Bedded	Very Fine Grained	Dark	Grey	14.62	15.60	Pyrrhotite	Bedded	1.00	3.00	14.62	Pervasive	Chloritization	Weak
									Comments Beds of Po in mudstone					Comments Weak chloritization of the lapilli tuff		
10.00	14.62	5V, Lapilli Tuff Interval of lapilli tuff with bomb fragment. Millimetric Xenomorphe Plagioclase cristal					14.62	20.82	Pyrrhotite	Patchy	5.00	3.00	10.00	Banded	Graphitic	Weak
		Oxidation	Texture	Grain Size	Tone	Colour			Comments Po in Patches and fracture controlled.					Comments Graphitization of the mudstone		
		Not Oxidized		Fine Grained	Medium	Grey	20.89	21.90	Pyrrhotite	Bedded	0.10	15.60	20.82	Pervasive	Silicification	Strong
									Comments Beds of Po in ash tuff					Comments Strong silicification that hide the protholith		
14.62	15.66	5D, Mudstone Mudstone with beds of Po.					21.90	23.13	Pyrrhotite	Patchy	3.00	20.89	21.90	Pervasive	Chloritization	Moderate
		Oxidation	Texture	Grain Size	Tone	Colour			Comments Cloudy Po					Comments Moderate chloritization in the ash tuff. The fragment are silicified		
		Not Oxidized	Bedded	Very Fine Grained			23.13	25.04	Pyrrhotite	Bedded	0.25	21.90	23.13	Pervasive	Silicification	Strong
15.66	20.89	5, Sedimentary Sedimentary rock completely silicified.														
		Oxidation	Texture	Grain Size	Tone	Colour			Beds of Po in ash tuff							

Hole Number: QK-16-006

Units: METRIC

Detailed Lithology						Mineralization					Alteration								
From	To	Lithology				From	To	Type	Style	%	From	To	Style	Type	Intensity				
		Not Oxidized	Aphanitic	Very Fine Grained		26.70	28.69	Pyrrhotite	Bedded	0.25			Comments Strong silicification that hide the protholith						
20.89	21.90	5U, Tuff Ash Tuff with silicified flatened blocks. Ignimbrite?				28.69	28.74	Sphalerite	Patchy	1.50	23.13	35.40	Pervasive	Chloritization	Moderate				
		Oxidation	Texture	Grain Size	Tone			Colour	Comments Small inteval of Patchy sulphides As, Ccp, Sp										
		Not Oxidized	Bedded	Very Fine Grained	Medium	grey-green							Comments Pervasive chloritization in the ash tuff with some strucutural control.						
21.90	23.13	5, Sedimentary Sedimentary rock completely silicified. Presence of decimetric quartz veins. seems to be clastic				28.69	28.74	Chalcopyrite	Patchy	0.25	35.40	45.27	Pervasive	Chloritization	Moderate				
		Oxidation	Texture	Grain Size	Tone			Colour	Comments Small inteval of Patchy sulphides As, Ccp, Sp										
		Not Oxidized		Very Fine Grained	Dark	grey-green	28.69	28.74	Arsenopyrite	Patchy	3.00	35.40	41.81	Pervasive	Silicification	Strong			
23.13	25.04	5U, Tuff Ash tuff with rounded silicified blocks.						Comments Small inteval of Patchy sulphides As, Ccp, Sp. Mineralization seems to be associaed with a talc alteration			Comments Strong to moderate silicification. Locally chloritized. Lappili stand to be more silicified								
		Oxidation	Texture	Grain Size	Tone	Colour	28.74	29.95	Arsenopyrite	Bedded	0.50	45.27	56.00	Pervasive	Silicification	Moderate			
25.04	26.30	5V, Lapilli Tuff Interval of lapilli tuff with bomb fragment. Millimetric Xenomorph Plagioclase crystal						Comments Disseminated As in Ash tuff. Xenomorphe to idiomorphe. Concentration at the top of the hole (inverted polarity)			Comments Moderate to highly silicification. Sediment stand to be strongly silicified followed by moderate silidcification of the tuff with local chloritization of the matrix. Mineralization associated with highly silicified zone								
		Oxidation	Texture	Grain Size	Tone	Colour	28.74	29.95	Chalcopyrite	Trace	0.01								
		Not Oxidized		Fine Grained		Grey			Comments Presence of ccp in the interval As										
26.30	35.40	5U, Tuff Ash tuff with intervals of with blocks (flatened and rounded).Hydrothermal alteration (albitization) between 32 and 35 m. As mineralization between 28.7 and 29.92 m. Bottom contact is brecciated with quartz veins.				31.33	35.40	Pyrrhotite	Bedded	0.25	31.33	31.40	Arsenopyrite	Disseminated	0.10				
		Oxidation	Texture	Grain Size	Tone	Colour	Comments Beds of Po. Mm to cm xenomorphe patch.												
		Not Oxidized	Bedded	Very Fine Grained	Medium	grey-green													
35.40	37.50	5, Sedimentary Sedimentary rock completely silicified. Presence of decimetric quartz veins. seems to be clastic. Mineralization in contact with quartz veins Gn.				31.33	35.40	Pyrite	Disseminated	0.01	Comments mm idiomorphe As								
		Oxidation	Texture	Grain Size	Tone			Colour	Comments Idiomorphe										
		Not Oxidized	Bedded	Very Fine Grained	Medium	green													
37.50	44.14	5U, Tuff																	

Hole Number: QK-16-006

Units: METRIC

Detailed Lithology						Mineralization				
From	To	Lithology				From	To	Type	Style	%
		Ash flow with latened plasticly deformed silicified mafic lapillis. Lapillis disappear at 41.81 m. Locally brecciated with seritization? Matrix cm qtz veins. Anastomosed qtz veins with veinlets and patches pf AsPy, Gal, Py and Po. veinlets of calcite, talc. Non-Mag.				35.40	36.20	Pyrrhotite	Fracture/vein controlled	5.00
		Oxidation	Texture	Grain Size	Tone			Comments		
		Not Oxidized		Very Fine Grained	Dark			Idiomorphe, fine grained. Banded.		
						35.40	36.20	Pyrite	Fracture/vein controlled	2.00
								Comments		
								hypidiomorphic to idiomorphic mm grains. Locally dessiminated in proximity of veins		
						35.40	36.20	Galena	Fracture/vein controlled	0.10
								Comments		
								mm veinlet of galena associated with Py		
						35.40	36.20	Arsenopyrite	Fracture/vein controlled	0.01
								Comments		
								Locally disseminated mm ipidiomorphpic grains associated of a veilet of Py and Po		
						36.20	40.84	Pyrite	Fracture/vein controlled	0.10
								Comments		
								Py idiomorphe and hypidiomorphe disseminated following the deformation. Incipient veinlets associated with Po		
						36.20	40.84	Pyrrhotite	Fracture/vein controlled	0.25
								Comments		
								Po xenomorphe disseminated following the deformation. Disseminated to Incipient veinlets associated with Po. Locally cloudy and patchy associated with Ccp		
						36.20	40.84	Chalcopyrite	Trace	0.01
								Comments		
								Patches associated with Po. Filling cavities		
						40.84	44.14	Pyrrhotite	Trace	0.01

From	To	Lithology			
		Ash flow with latened plasticly deformed silicified mafic lapillis. Lapillis disappear at 41.81 m. Locally brecciated with seritization? Matrix cm qtz veins. Anastomosed qtz veins with veinlets and patches pf AsPy, Gal, Py and Po. veinlets of calcite, talc. Non-Mag.			
		Oxidation	Texture	Grain Size	Tone
		Not Oxidized		Very Fine Grained	Dark

44.14	45.27	5V, Lapilli Tuff Crystalline lapilli composed of xenomorphe plagioclase crystal. No mineralization.			
		Oxidation	Texture	Grain Size	Tone
		Not Oxidized	Bedded	Fine Grained	Medium

45.27	46.60	5, Sedimentary Sedimentary rock completely silicified. Idiomorphique mm Pyrite controled by fracture. Silicified with fracture filled with patches of chlorite			
		Oxidation	Texture	Grain Size	Tone
		Not Oxidized	Bedded	Very Fine Grained	Dark

46.60	56.00	5V, Lapilli Tuff Lithic mafic lapillis. Plasticly deformed lapillis that are slighly to moderatly silicified. Concordant bedding. Locally schistose (53.22 to 54.50). More Ash tuff at the end of the interval.			
		Oxidation	Texture	Grain Size	Tone
		Not Oxidized	Bedded	Very Fine Grained	Dark

From	To	Type	Style	%
35.40	36.20	Pyrrhotite	Fracture/vein controlled	5.00
		Comments Idiomorphe, fine grained. Banded.		
35.40	36.20	Pyrite	Fracture/vein controlled	2.00
		Comments hypidiomorphic to idiomorphic mm grains. Locally dessiminated in proximity of veins		
35.40	36.20	Galena	Fracture/vein controlled	0.10
		Comments mm veinlet of galena associated with Py		
35.40	36.20	Arsenopyrite	Fracture/vein controlled	0.01
		Comments Locally disseminated mm ipidiomorphpic grains associated of a veilet of Py and Po		
36.20	40.84	Pyrite	Fracture/vein controlled	0.10
		Comments Py idiomorphe and hypidiomorphe disseminated following the deformation. Incipient veinlets associated with Po		
36.20	40.84	Pyrrhotite	Fracture/vein controlled	0.25
		Comments Po xenomorphe disseminated following the deformation. Disseminated to Incipient veinlets associated with Po. Locally cloudy and patchy associated with Ccp		
36.20	40.84	Chalcopyrite	Trace	0.01
		Comments Patches associated with Po. Filling cavities		
40.84	44.14	Pyrrhotite	Trace	0.01

Hole Number: QK-16-006

Units: METRIC

Mineralization					
From	To	Type	Style	%	
Comments					
Trace of Po patches					
45.27	56.00	Pyrite	Fracture/vein controlled	0.25	
Comments					
Idiomorphe to hypidiomorph. Patchy to dessiminated mm to cm locally associated with Po as a pressure shadow. Incipient veinlets seems to be associated with silicification					
45.27	56.00	Pyrrhotite	Fracture/vein controlled	0.50	
Comments					
Veinlets to dessiminated. Fg to Vfg grained. Seems to be fracture controled and locally cloudy					
45.27	56.00	Chalcopyrite	Trace	0.01	
Comments					
Presence of Ccp associated with Po					

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
4.13	4.63	Q135248	ASSAY	0.003	0.50	0.02	0.01	0.00	4.52	9.29	7.11
14.00	14.62	Q135249	ASSAY	0.004	0.50	0.01	0.01	0.00	0.91	6.27	3.66
14.00	14.62	Q135250	DUP	0.005	0.50	0.01	0.01	0.00	0.84	6.06	3.53
14.62	15.60	Q132851	ASSAY	0.011	0.50	0.02	0.03	0.00	4.25	16.25	6.80
15.60	16.50	Q132852	ASSAY	0.006	1.00	0.01	0.01	0.00	1.42	4.91	1.96
16.50	17.00	Q132853	ASSAY	0.018	0.50	0.02	0.02	0.00	3.14	9.97	6.64
17.00	18.00	Q132854	ASSAY	0.014	0.50	0.02	0.01	0.00	2.17	9.74	4.14
18.00	19.00	Q132855	ASSAY	0.009	0.50	0.02	0.00	0.00	0.52	6.21	0.95
19.00	20.00	Q132856	ASSAY	0.023	0.50	0.02	0.01	0.00	1.18	9.16	1.95
20.00	20.89	Q132857	ASSAY	0.008	1.00	0.01	0.01	0.00	1.64	6.74	2.77
20.89	21.90	Q132858	ASSAY	0.005	0.50	0.01	0.01	0.00	1.55	7.32	2.25
21.90	23.13	Q132859	ASSAY	0.008	0.50	0.02	0.01	0.00	1.42	5.95	1.84

Hole Number: QK-16-006

Units: METRIC

Sampling											
From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
23.13	24.00	Q132861	ASSAY	0.005	1.00	0.02	0.02	0.00	3.28	6.73	2.33
24.00	25.06	Q132862	ASSAY	0.002	0.50	0.01	0.01	0.00	2.28	7.32	3.72
25.06	26.00	Q132863	ASSAY	0.007	0.50	0.00	0.01	0.00	0.92	5.62	3.79
26.00	26.70	Q132864	ASSAY	0.005	0.50	0.00	0.01	0.00	1.06	4.85	3.12
26.70	27.70	Q132865	ASSAY	0.016	0.50	0.01	0.02	0.00	1.74	5.01	3.27
27.70	28.69	Q132866	ASSAY	0.039	1.00	0.01	0.05	0.03	2.88	7.02	2.22
28.69	29.15	Q132867	ASSAY	0.865	3.00	0.02	0.18	0.07	4.25	8.07	2.24
29.15	29.95	Q132868	ASSAY	0.304	1.00	0.00	0.04	0.00	2.80	7.70	1.82
29.95	31.20	Q132869	ASSAY	0.004	0.50	0.00	0.02	0.01	2.95	6.24	4.02
31.20	32.16	Q132871	ASSAY	0.060	0.50	0.03	0.02	0.00	1.70	10.75	1.65
32.16	33.00	Q132872	ASSAY	0.003	0.50	0.00	0.01	0.03	4.49	6.88	7.28
33.00	34.00	Q132873	ASSAY	0.002	0.50	0.01	0.02	0.01	5.26	7.42	6.97
34.00	34.50	Q132874	ASSAY	0.003	0.50	0.00	0.01	0.00	2.05	6.23	3.81
34.50	35.40	Q132875	ASSAY	0.329	1.00	0.02	0.01	0.00	2.56	12.25	2.40
35.40	35.93	Q132876	ASSAY	2.600	1.00	0.02	0.03	0.05	1.46	12.70	1.64
35.93	36.60	Q132877	ASSAY	0.108	1.00	0.01	0.01	0.04	1.16	5.51	1.39
36.60	38.00	Q132878	ASSAY	0.035	1.00	0.01	0.01	0.00	1.46	7.25	1.30
38.00	39.00	Q132879	ASSAY	0.002	1.00	0.01	0.01	0.00	1.83	5.56	3.85
38.00	39.00	Q132880	DUP	0.003	0.50	0.01	0.01	0.00	2.04	6.30	4.17
39.00	40.00	Q132881	ASSAY	0.004	0.50	0.06	0.01	0.00	2.21	8.77	5.43
40.00	40.84	Q132882	ASSAY	0.003	0.50	0.04	0.01	0.00	2.33	6.52	4.42
40.84	42.00	Q132883	ASSAY	0.001	0.50	0.00	0.01	0.00	1.94	8.44	3.89
42.00	43.00	Q132884	ASSAY	0.002	0.50	0.00	0.00	0.00	2.41	14.30	3.95
43.00	44.14	Q132885	ASSAY	0.001	0.50	0.00	0.01	0.00	3.84	18.00	3.38
44.14	45.27	Q132886	ASSAY	0.011	0.50	0.01	0.01	0.00	0.84	4.85	2.65
45.27	46.60	Q132887	ASSAY	0.022	0.50	0.02	0.00	0.00	0.54	2.67	0.93
46.60	47.50	Q132888	ASSAY	0.004	0.50	0.01	0.01	0.00	2.26	9.38	2.25
47.50	48.50	Q132889	ASSAY	0.005	0.50	0.01	0.01	0.00	2.02	11.15	1.88
48.50	50.00	Q132891	ASSAY	0.006	0.50	0.01	0.01	0.00	4.19	10.15	6.00

ma

Hole Number: QK-16-006

Units: METRIC

Sampling

From	To	Sample Number	Sample Type	Au (gpt)	Ag (gpt)	Cu (%)	Zn (%)	Pb (%)	Mg (%)	Fe (%)	Ca (%)
50.00	51.50	Q132892	ASSAY	0.040	0.50	0.02	0.01	0.00	1.72	12.35	2.62
51.50	53.00	Q132893	ASSAY	0.098	0.50	0.01	0.01	0.00	2.11	10.90	3.98
53.00	54.50	Q132894	ASSAY	0.002	0.50	0.00	0.00	0.00	2.50	9.23	5.88
54.50	56.00	Q132895	ASSAY	0.010	1.00	0.01	0.00	0.00	1.65	6.55	2.70

Geotechnical

From	To	Interval	Recovery	Recovery %	RQD	RQD %	Comments
3.00	5.00	2.00	2.00	100.00	0.20	10.00	=00<
5.00	8.00	3.00	3.05	101.67	1.63	54.33	M>101<
8.00	11.00	3.00	3.00	100.00	0.60	20.00	M>000<
11.00	14.00	3.00	2.86	95.33	1.30	43.33	=000=
14.00	17.00	3.00	3.09	103.00	2.20	73.33	=001<
17.00	20.00	3.00	2.92	97.33	1.95	65.00	M>100<
20.00	23.00	3.00	3.10	103.33	1.73	57.67	M>000<
23.00	26.00	3.00	2.89	96.33	0.79	26.33	M>000=
26.00	29.00	3.00	2.80	93.33	0.71	23.67	=000=
29.00	32.00	3.00	2.86	95.33	1.00	33.33	=001<
32.00	35.00	3.00	2.85	95.00	1.37	45.67	M>000=
35.00	38.00	3.00	2.75	91.67	1.05	35.00	=000<
38.00	41.00	3.00	3.26	108.67	2.67	89.00	M>000<
41.00	44.00	3.00	3.00	100.00	0.80	26.67	M>100=
44.00	47.00	3.00	2.93	97.67	1.57	52.33	=000<
47.00	50.00	3.00	2.95	98.33	1.60	53.33	M>00
50.00	53.00	3.00	2.89	96.33	1.31	43.67	M>001<
53.00	56.00	3.00	2.86	95.33	1.68	56.00	=000<

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
32.00	Bedding	40	35	167.00	-50.00	-84.89	283.18	0	13.18						Bedding in ash tuff

Hole Number: QK-16-006

Units: METRIC

Point Structure

At	Structure	Alpha	Beta	Core Azi	Core Dip	Calculated Dip	Calculated Strike	Apparent Dip	Dip Direction	Gamma	Joint Fill 1	Fill Material 1	Joint Fill 2	Fill Material 2	Comments
41.09	Bedding	48	350	167.00	-50.00	-81.62	250.26	0	340.26						Bedding in ash tuff
44.43	Bedding	50													Bedding in ash tuff



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **TRUE NORTH NICKEL INC,**
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TORONTO ON M5J 2W4

Page: 1
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Finalized Date: 8-AUG-2016
Account: LZIBAC

CERTIFICATE VO16124050

Project: QK-2016-RS-002

This report is for 11 Rock samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

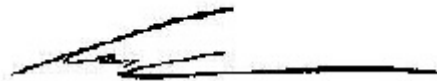
ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA22	Au 50 g FA- GRAV finish	WST- SIM
ME- ICP61a	High Grade Four Acid ICP- AES	ICP- AES
Au- ICP22	Au 50g FA ICP- AES finish	ICP- AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 8 - AUG - 2016
 Account: LZIBAC

Project: QK-2016-RS-002

CERTIFICATE OF ANALYSIS VO16124050

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132941		1.16	0.007		<1	2.84	<50	680	<10	<20	1.15	<10	10	20	90	2.37
P132942		1.59	>10.0	34.8	45	0.52	50	60	<10	340	<0.05	30	20	20	150	3.81
P132943		1.62	>10.0	67.8	36	0.16	130	<50	<10	110	<0.05	30	10	20	250	4.03
P132944		1.83	2.72		20	0.52	1640	80	<10	70	<0.05	<10	10	30	50	2.53
P132945		1.84	1.625		5	1.21	3460	250	<10	40	0.06	30	10	30	150	3.91
P132946		1.67	>10.0	10.50	25	0.91	60	160	<10	70	0.10	10	<10	50	90	1.92
P132947		1.72	2.59		11	0.90	70	160	<10	30	0.14	10	10	40	70	1.99
P132948		2.00	0.050		<1	2.21	<50	620	<10	<20	0.83	<10	10	20	60	1.70
P132949		2.10	0.311		8	0.48	320	80	<10	20	0.05	<10	10	50	90	3.66
P137901		0.16	0.001		<1	3.62	<50	360	<10	<20	1.71	<10	10	40	10	1.40
P137902		0.02	NSS		45	4.11	100	550	<10	<20	1.53	130	270	30	30600	16.85



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Project: QK-2016-RS-002

CERTIFICATE OF ANALYSIS VO16124050

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132941		<50	1.8	<50	0.18	380	20	2.94	10	350	30	0.39	<50	<10	170
P132942		<50	0.2	<50	<0.05	80	<10	0.23	<10	<50	1660	2.33	<50	<10	10
P132943		<50	0.1	<50	<0.05	80	<10	<0.05	10	<50	1710	2.58	<50	<10	10
P132944		<50	0.3	<50	<0.05	60	<10	<0.05	<10	<50	1090	1.80	120	<10	<10
P132945		<50	1.0	<50	0.10	80	<10	0.07	<10	150	640	2.96	170	<10	10
P132946		<50	0.5	<50	0.06	110	10	0.75	<10	90	910	0.82	<50	<10	30
P132947		<50	0.5	<50	0.05	140	10	0.59	<10	80	270	0.79	<50	<10	30
P132948		<50	2.1	<50	0.15	380	40	2.51	10	340	30	0.26	<50	<10	100
P132949		<50	0.3	<50	<0.05	70	<10	<0.05	<10	<50	410	3.17	<50	<10	10
P137901		<50	1.2	<50	0.41	250	<10	2.74	20	230	<20	<0.05	<50	<10	330
P137902		<50	0.9	<50	1.22	650	10	0.48	20	560	6160	>10.0	60	10	40



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Project: QK-2016-RS-002

CERTIFICATE OF ANALYSIS VO16124050

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P132941		0.15	<50	<50	20	240	90
P132942		<0.05	<50	<50	<10	520	1790
P132943		<0.05	<50	<50	<10	1010	1630
P132944		<0.05	<50	<50	<10	<50	180
P132945		<0.05	<50	<50	10	<50	1620
P132946		<0.05	<50	<50	10	460	360
P132947		<0.05	<50	<50	10	<50	990
P132948		0.14	<50	<50	20	<50	190
P132949		<0.05	<50	<50	<10	<50	80
P137901		0.15	<50	<50	40	<50	20
P137902		0.12	<50	<50	30	<50	23600



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CERTIFICATE OF ANALYSIS VO16124050

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
CRU - 31 CRU - QC LOG - 22 LOG - 24
PUL - 31 SPL - 21 WEI - 21 WSH - 21
WSH - 22

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - GRA22 Au - ICP22 ME - ICP61a



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CERTIFICATE VO16124051

Project: QK-2016-RS-001

This report is for 8 Rock samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: QK-2016-RS-001

CERTIFICATE OF ANALYSIS VO16124051

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
P132257		1.85	0.164	<1	0.11	80	<50	<10	<20	<0.05	<10	<10	40	30	3.25	<50
P132261		1.85	0.162	<1	0.68	990	<50	<10	<20	0.13	<10	10	80	90	2.71	<50
P132263		1.42	0.009	<1	0.25	<50	<50	<10	<20	13.60	<10	<10	20	<10	5.89	<50
P137227		1.33	0.107	<1	3.79	<50	<50	<10	<20	3.52	<10	90	2090	1060	10.70	<50
P137234		1.24	0.005	25	0.85	<50	1130	<10	<20	<0.05	30	<10	30	10	1.12	<50
P137529		4.42	3.05	<1	3.83	15900	560	<10	<20	1.52	<10	10	40	40	3.05	<50
P137530		1.55	0.485	<1	5.06	60	930	<10	<20	2.97	<10	10	40	200	5.02	<50
P137531		1.47	0.006	2	1.98	<50	650	<10	<20	<0.05	10	10	10	70	3.67	<50



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CERTIFICATE OF ANALYSIS VO16124051

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
P132257		0.1	<50	<0.05	30	<10	<0.05	10	<50	<20	3.24	<50	<10	<10	<50
P132261		0.4	<50	0.09	100	<10	<0.05	20	200	40	1.35	<50	<10	<10	<50
P132263		0.2	<50	5.03	2350	<10	<0.05	10	100	<20	<0.05	<50	<10	110	<50
P137227		<0.1	<50	14.15	1220	<10	0.10	1530	180	<20	1.56	<50	20	10	<50
P137234		4.8	<50	<0.05	30	<10	0.21	10	100	7040	1.13	<50	<10	20	<50
P137529		3.0	<50	0.54	350	<10	0.44	30	910	30	1.45	50	<10	120	<50
P137530		3.9	<50	0.92	700	<10	1.14	30	1350	20	2.19	<50	10	230	<50
P137531		2.9	70	<0.05	320	<10	5.59	10	140	330	1.40	<50	<10	30	<50



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CERTIFICATE OF ANALYSIS VO16124051

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		50	50	10	50	20
P132257		<50	<50	10	<50	30
P132261		<50	<50	30	<50	170
P132263		<50	<50	10	<50	20
P137227		<50	<50	160	<50	100
P137234		<50	<50	20	<50	4800
P137529		<50	<50	80	<50	50
P137530		<50	<50	120	<50	30
P137531		<50	<50	<10	<50	720



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CERTIFICATE OF ANALYSIS VO16124051

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-QC	SPL-21	WEI-21
	WSH-22		PUL-31
			WSH-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP22	ME-ICP61a	



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Finalized Date: 18-AUG-2016
Account: LZIBAC

CERTIFICATE VO16124058

Project: QK-2016-FS-001

This report is for 137 Rock samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

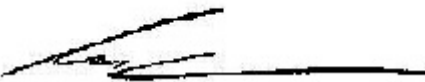
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GR22	Au 50 g FA-GR22 finish	WST-SIM
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

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***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Account: LZIBAC

Project: QK-2016-FS-001

CERTIFICATE OF ANALYSIS VO16124058

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132251		1.44	0.006		<1	6.10	<50	<50	<10	<20	4.65	<10	40	10	140	11.15
P132252		1.38	0.006		<1	6.53	<50	260	<10	<20	7.38	<10	30	30	120	8.40
P132253		1.89	0.006		<1	5.30	<50	70	<10	<20	2.65	<10	20	60	60	5.11
P132254		1.14	0.002		<1	6.81	<50	<50	<10	<20	3.34	<10	20	<10	10	12.55
P132255		1.18	0.012		<1	4.75	<50	70	<10	<20	6.16	<10	20	60	60	5.29
P132256		1.24	0.003		<1	3.94	<50	90	<10	<20	3.04	<10	20	10	80	4.00
P132258		1.26	0.003		<1	3.75	<50	160	<10	<20	1.88	<10	20	40	110	4.56
P132259		1.12	0.012		<1	1.96	<50	160	<10	<20	0.78	<10	20	30	90	11.20
P132260		1.28	0.014		1	2.09	<50	200	<10	<20	1.48	<10	20	40	100	11.25
P132262		1.92	0.013		1	4.72	<50	130	<10	<20	5.52	<10	20	50	50	5.73
P132264		2.00	0.009		<1	6.81	<50	320	<10	<20	6.32	<10	30	10	110	9.48
P132265		1.91	>10.0	18.30	8	1.43	170	240	<10	20	0.69	80	10	10	210	5.62
P132266		1.98	2.68		3	1.00	4250	160	<10	<20	<0.05	10	10	20	50	3.21
P132267		1.78	0.871		<1	1.47	4360	460	<10	<20	0.05	<10	<10	10	<10	2.15
P132268		2.10	0.019		<1	6.88	<50	370	<10	<20	7.34	<10	40	90	130	6.89
P132269		1.91	0.007		<1	0.21	<50	<50	<10	<20	0.07	<10	<10	30	10	1.45
P132270		2.53	0.035		<1	4.90	<50	380	<10	<20	3.19	<10	30	340	290	8.92
P132271		1.51	0.002		<1	6.36	<50	250	<10	<20	6.13	<10	40	20	90	8.70
P132272		1.61	0.006		<1	7.06	<50	280	<10	<20	6.54	<10	30	120	290	9.74
P132273		1.59	0.005		<1	5.78	<50	<50	<10	<20	5.99	<10	30	400	70	8.23
P132274		1.62	4.20		<1	1.13	14200	110	<10	<20	0.16	<10	30	30	110	6.61
P132275		1.96	0.057		<1	1.17	<50	100	<10	<20	0.08	<10	20	20	130	4.87
P132276		1.79	0.004		<1	6.27	<50	100	<10	<20	5.26	<10	50	<10	840	10.65
P132277		1.61	0.007		<1	6.54	<50	250	<10	<20	3.53	<10	20	90	60	6.54
P132278		1.17	0.006		<1	6.10	<50	320	<10	<20	4.01	<10	30	70	170	7.94
P132279		1.43	0.008		<1	4.14	<50	130	<10	<20	1.16	<10	20	70	90	3.98
P132280		0.12	2.46		5	1.98	<50	330	<10	<20	4.25	<10	10	30	80	2.96
P132281		1.58	0.004		<1	5.64	<50	<50	<10	<20	5.28	<10	40	30	160	8.67
P132551		0.95	0.006		<1	0.31	<50	<50	<10	<20	0.05	<10	<10	40	20	1.83
P132552		0.96	0.002		<1	0.85	<50	<50	<10	<20	0.23	<10	<10	30	10	2.14
P132553		1.23	0.052		2	3.44	<50	240	<10	<20	2.06	<10	120	100	2810	23.3
P132554		0.99	0.069		2	4.19	<50	380	<10	<20	1.74	<10	70	180	2460	16.00
P132555		1.60	0.034		<1	4.70	<50	170	<10	<20	1.83	<10	20	210	330	10.35
P132556		0.79	0.019		<1	<0.05	<50	<50	<10	<20	<0.05	<10	<10	20	150	5.93
P132557		2.41	0.002		<1	<0.05	<50	<50	<10	<20	<0.05	<10	<10	20	<10	4.84
P132558		1.29	0.011		<1	2.87	<50	<50	<10	<20	3.94	<10	100	2670	30	8.48
P132559		0.81	0.015		<1	2.82	<50	460	<10	<20	0.59	<10	10	20	10	2.45
P132560		0.62	0.025		1	3.36	<50	790	<10	<20	2.17	<10	30	360	320	6.46
P132561		1.18	0.586		<1	0.07	<50	<50	<10	<20	<0.05	<10	<10	30	<10	0.69
P132562		1.32	0.001		<1	2.09	<50	90	<10	<20	0.14	<10	<10	30	<10	0.53



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132251		<50	<0.1	<50	2.05	1330	<10	0.89	<10	490	20	0.90	<50	40	340
P132252		<50	0.6	<50	1.63	1370	<10	2.18	10	880	<20	0.36	<50	20	280
P132253		<50	0.3	<50	2.40	750	<10	3.21	30	650	<20	0.66	<50	10	230
P132254		<50	0.1	<50	1.64	1990	10	2.49	<10	4120	<20	0.17	<50	30	70
P132255		<50	0.2	<50	1.07	1000	<10	2.01	30	640	<20	0.10	<50	10	270
P132256		<50	0.2	<50	0.98	760	<10	4.40	<10	680	<20	0.68	<50	<10	120
P132258		<50	0.3	<50	1.43	700	<10	3.42	20	540	<20	0.39	<50	10	160
P132259		<50	<0.1	<50	0.86	2210	<10	0.49	20	580	<20	0.70	<50	10	30
P132260		<50	<0.1	<50	0.89	2290	<10	0.54	20	500	<20	1.05	<50	10	40
P132262		<50	0.4	<50	1.44	1390	<10	1.75	10	610	<20	0.10	<50	10	270
P132264		<50	0.7	<50	2.03	1630	<10	2.89	<10	2080	20	2.09	<50	20	430
P132265		<50	1.1	<50	0.05	280	10	0.07	<10	70	520	5.21	<50	<10	30
P132266		<50	0.6	<50	0.05	80	10	0.05	<10	<50	160	2.08	<50	<10	20
P132267		<50	2.7	<50	0.07	90	<10	0.43	<10	270	90	1.91	<50	<10	20
P132268		<50	0.6	<50	1.68	960	<10	2.98	30	940	<20	1.44	<50	30	270
P132269		<50	0.1	<50	<0.05	90	<10	<0.05	<10	60	<20	0.20	<50	<10	10
P132270		<50	0.9	<50	1.96	770	<10	2.73	170	770	<20	3.40	<50	20	180
P132271		<50	0.5	<50	1.69	1610	<10	2.49	10	1230	20	0.75	<50	20	230
P132272		<50	0.4	<50	3.17	1780	<10	2.28	10	670	<20	0.91	<50	30	280
P132273		<50	0.1	<50	4.47	1680	<10	1.34	80	480	<20	<0.05	<50	40	140
P132274		<50	0.5	<50	0.20	700	10	<0.05	20	540	50	3.40	80	<10	10
P132275		<50	0.4	<50	0.26	440	<10	0.05	20	390	<20	0.51	<50	<10	10
P132276		<50	0.3	<50	1.68	1330	<10	1.09	10	2250	<20	1.25	<50	20	440
P132277		<50	0.9	<50	2.35	1370	<10	0.68	20	780	<20	1.75	<50	30	100
P132278		<50	0.8	<50	1.62	1170	<10	3.97	50	1410	20	1.06	<50	20	390
P132279		<50	1.0	<50	0.78	450	<10	5.03	30	490	<20	1.06	<50	<10	160
P132280		<50	1.9	<50	0.68	730	10	0.91	10	600	30	0.85	<50	<10	250
P132281		<50	0.1	<50	2.11	1150	<10	1.95	30	320	<20	0.46	<50	30	230
P132551		<50	0.1	<50	0.05	130	<10	<0.05	<10	90	<20	<0.05	<50	<10	10
P132552		<50	0.1	<50	0.44	260	<10	<0.05	10	<50	<20	<0.05	<50	<10	10
P132553		<50	1.1	<50	0.86	510	<10	0.67	150	300	40	>10.0	<50	10	120
P132554		<50	2.0	<50	1.13	590	<10	0.89	100	450	20	>10.0	<50	20	120
P132555		<50	0.7	<50	2.12	560	<10	2.14	140	820	30	3.14	<50	10	150
P132556		<50	<0.1	<50	<0.05	100	<10	<0.05	<10	80	20	4.23	<50	<10	10
P132557		<50	<0.1	<50	<0.05	150	<10	<0.05	<10	<50	<20	<0.05	<50	<10	<10
P132558		<50	0.1	<50	16.10	1180	<10	0.12	1230	130	<20	<0.05	<50	20	10
P132559		<50	1.6	<50	0.23	520	<10	2.56	<10	270	<20	0.40	<50	<10	80
P132560		<50	1.3	<50	1.16	470	<10	1.61	160	650	40	2.37	<50	10	130
P132561		<50	<0.1	<50	<0.05	70	<10	<0.05	<10	<50	20	<0.05	<50	<10	<10
P132562		<50	4.6	<50	<0.05	60	<10	1.85	10	<50	20	<0.05	<50	<10	40



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P132251		0.62	<50	<50	390	<50	130
P132252		0.92	<50	<50	330	<50	130
P132253		0.51	<50	<50	180	<50	80
P132254		1.50	<50	<50	30	<50	190
P132255		0.44	<50	<50	160	<50	90
P132256		0.31	<50	<50	40	<50	60
P132258		0.42	<50	<50	160	<50	40
P132259		0.08	<50	<50	90	<50	70
P132260		0.10	<50	<50	110	<50	70
P132262		0.55	<50	<50	190	<50	90
P132264		1.11	<50	<50	190	<50	160
P132265		0.05	<50	<50	10	<50	16450
P132266		<0.05	<50	<50	10	<50	1070
P132267		0.14	<50	<50	20	<50	90
P132268		0.98	<50	<50	370	<50	70
P132269		<0.05	<50	<50	20	<50	<20
P132270		0.42	<50	<50	220	<50	540
P132271		0.97	<50	<50	240	<50	180
P132272		0.91	<50	<50	350	<50	90
P132273		0.52	<50	<50	240	<50	110
P132274		0.11	<50	<50	40	<50	260
P132275		<0.05	<50	<50	40	<50	50
P132276		0.99	<50	<50	70	<50	100
P132277		0.47	<50	<50	170	<50	50
P132278		0.75	<50	<50	260	<50	250
P132279		0.29	<50	<50	60	<50	70
P132280		0.26	<50	<50	110	<50	90
P132281		0.43	<50	<50	370	<50	90
P132551		<0.05	<50	<50	20	<50	<20
P132552		<0.05	<50	<50	<10	<50	30
P132553		0.26	<50	<50	140	<50	210
P132554		0.36	<50	<50	170	<50	220
P132555		0.34	<50	<50	160	<50	320
P132556		<0.05	<50	<50	<10	<50	<20
P132557		<0.05	<50	<50	<10	<50	<20
P132558		0.21	<50	<50	130	<50	80
P132559		0.17	<50	<50	20	<50	90
P132560		0.42	<50	<50	220	<50	390
P132561		<0.05	<50	<50	<10	<50	<20
P132562		<0.05	<50	<50	<10	<50	<20



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	Au-GRA22 Au ppm	ME-ICP61a Ag ppm	ME-ICP61a Al %	ME-ICP61a As ppm	ME-ICP61a Ba ppm	ME-ICP61a Be ppm	ME-ICP61a Bi ppm	ME-ICP61a Ca %	ME-ICP61a Cd ppm	ME-ICP61a Co ppm	ME-ICP61a Cr ppm	ME-ICP61a Cu ppm	ME-ICP61a Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132563		0.86	0.001		<1	2.11	<50	110	<10	<20	0.09	<10	<10	10	<10	0.49
P132564		1.34	0.008		<1	0.08	<50	<50	<10	<20	0.17	<10	<10	40	10	1.00
P132565		1.59	0.003		<1	5.74	<50	230	<10	<20	5.93	<10	30	200	110	8.53
P132566		2.20	0.005		<1	5.08	<50	380	<10	<20	4.99	<10	40	170	360	7.88
P132567		1.02	0.001		<1	5.48	<50	260	<10	<20	4.07	<10	30	180	70	7.23
P132568		1.16	0.037		<1	5.93	<50	190	<10	<20	7.15	<10	30	120	210	9.06
P132569		1.60	0.002		<1	5.53	<50	190	<10	<20	7.85	<10	30	370	190	8.38
P132570		1.30	0.004		<1	3.28	<50	450	<10	<20	3.74	<10	20	10	70	4.55
P132571		2.29	0.005		<1	5.35	<50	230	<10	<20	3.03	<10	20	70	50	6.62
P132572		1.45	0.015		<1	4.49	<50	390	<10	<20	3.44	<10	20	60	60	6.73
P132573		0.85	0.074		2	3.26	<50	120	<10	<20	3.98	<10	40	40	540	13.25
P132574		1.05	0.001		<1	<0.05	<50	<50	<10	<20	0.11	<10	<10	30	<10	4.66
P132575		1.05	0.002		3	0.67	<50	60	<10	<20	<0.05	10	<10	30	1420	1.13
P132576		1.09	0.001		<1	0.29	<50	5130	<10	<20	2.35	<10	10	20	20	17.90
P132577		1.05	0.061		<1	3.76	<50	660	<10	<20	3.03	<10	20	290	40	13.95
P132851		1.37	0.010		<1	6.72	<50	1660	<10	<20	1.82	<10	30	30	80	8.90
P132852		1.52	0.006		<1	3.47	<50	690	<10	<20	3.28	<10	20	10	80	6.67
P132853		1.44	0.005		<1	3.38	<50	470	<10	<20	2.52	<10	10	10	40	6.54
P132854		1.69	0.006		<1	3.81	<50	610	<10	<20	2.62	<10	20	140	20	5.46
P132855		1.77	0.019		<1	6.33	<50	90	<10	<20	0.14	<10	<10	30	10	5.87
P132856		1.32	0.007		<1	4.41	<50	<50	<10	<20	4.23	<10	30	<10	10	6.66
P132857		1.94	<0.001		<1	0.58	<50	<50	<10	<20	3.76	<10	10	200	20	1.95
P132858		1.10	0.004		<1	6.10	<50	70	<10	<20	1.16	<10	20	10	20	5.24
P132859		1.79	0.003		<1	4.47	<50	70	<10	<20	1.92	<10	30	10	10	7.97
P132860		1.72	0.003		<1	5.80	<50	380	<10	<20	1.89	<10	20	<10	70	11.65
P132861		1.91	0.002		<1	5.72	<50	720	<10	<20	1.90	<10	20	20	10	6.40
P132862		1.71	0.166		<1	2.13	<50	740	<10	<20	0.37	<10	<10	10	20	1.26
P132863		1.23	0.118		<1	4.90	50	100	<10	<20	4.71	<10	20	200	1120	18.60
P132864		1.31	0.066		<1	5.48	<50	200	<10	<20	3.97	10	40	260	650	19.50
P132865		1.54	0.068		<1	4.36	<50	50	<10	<20	5.09	10	40	210	600	18.80
P132866		1.68	0.026		<1	2.80	<50	<50	<10	<20	8.05	<10	10	100	170	12.20
P132867		0.96	0.059		<1	1.04	290	260	<10	<20	<0.05	<10	<10	10	50	0.52
P132868		1.29	0.010		<1	0.09	<50	<50	<10	<20	<0.05	<10	<10	20	10	2.07
P132869		2.45	0.027		<1	0.34	90	<50	<10	<20	15.05	<10	10	190	260	5.31
P132870		2.19	0.001		<1	3.77	<50	780	10	<20	12.90	<10	30	270	40	6.17
P132871		0.05	NSS		2	2.94	680	1240	<10	30	3.57	<10	730	30	16850	27.9
P132872		0.81	0.004		<1	6.20	<50	440	10	<20	1.01	<10	10	80	60	7.76
P132873		1.22	0.007		<1	0.76	<50	90	<10	<20	0.68	<10	<10	20	280	1.01
P132874		1.67	0.011		<1	2.69	<50	<50	<10	<20	4.09	<10	110	1150	4360	12.85
P132875		1.23	<0.001		<1	5.46	<50	630	<10	<20	1.33	<10	40	30	120	9.98



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
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		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132563		<50	4.9	<50	<0.05	60	<10	1.75	<10	<50	30	<0.05	<50	<10	30
P132564		<50	<0.1	<50	0.05	90	<10	<0.05	<10	<50	<20	0.28	<50	<10	<10
P132565		<50	0.5	<50	2.60	1730	<10	1.53	40	730	<20	0.74	<50	30	260
P132566		<50	0.6	<50	2.36	1530	<10	1.76	40	610	<20	0.65	<50	30	190
P132567		<50	1.3	<50	2.18	1590	<10	0.22	30	550	<20	0.57	<50	30	50
P132568		<50	0.5	<50	2.53	2010	<10	0.93	20	620	<20	0.35	<50	40	170
P132569		<50	0.7	<50	3.61	2140	<10	0.46	70	510	<20	0.65	<50	40	140
P132570		<50	1.3	<50	1.00	1150	<10	0.87	<10	890	<20	0.67	<50	10	50
P132571		<50	0.6	<50	2.55	1590	<10	0.48	10	670	<20	1.86	<50	20	60
P132572		<50	0.6	<50	1.60	1580	<10	1.29	10	850	<20	1.87	<50	20	100
P132573		<50	0.6	<50	0.88	1510	<10	0.63	10	570	80	7.78	<50	10	90
P132574		<50	<0.1	<50	<0.05	120	<10	<0.05	10	<50	<20	0.06	<50	<10	<10
P132575		<50	0.3	<50	<0.05	70	<10	0.05	<10	<50	3390	0.40	<50	<10	<10
P132576		<50	<0.1	<50	0.16	1490	<10	0.18	10	1760	20	0.13	<50	<10	260
P132577		<50	0.8	<50	2.19	1650	<10	1.09	90	480	20	<0.05	<50	20	70
P132851		<50	1.5	<50	0.89	750	<10	0.72	20	1590	<20	1.49	<50	20	240
P132852		<50	0.7	<50	0.79	520	<10	3.30	10	1530	<20	4.66	<50	10	150
P132853		<50	0.6	<50	0.76	240	<10	4.21	<10	1710	20	6.60	<50	10	160
P132854		<50	0.6	<50	1.48	450	<10	2.92	40	680	<20	4.30	<50	10	100
P132855		<50	0.7	<50	3.27	120	<10	2.75	20	290	<20	0.24	<50	40	30
P132856		<50	0.1	<50	1.76	620	<10	3.29	10	460	<20	2.78	<50	20	60
P132857		<50	0.1	<50	2.24	870	<10	<0.05	120	<50	<20	<0.05	<50	<10	80
P132858		<50	<0.1	<50	2.86	410	<10	3.65	10	420	<20	1.97	<50	40	90
P132859		<50	<0.1	<50	1.67	670	<10	3.65	<10	440	<20	3.39	<50	30	90
P132860		<50	0.1	<50	1.69	590	<10	3.89	10	500	20	0.94	<50	40	100
P132861		<50	0.8	<50	1.10	950	<10	4.38	<10	1300	<20	0.05	<50	10	190
P132862		<50	2.4	<50	<0.05	130	<10	3.36	<10	<50	20	0.36	<50	<10	70
P132863		<50	0.7	<50	2.01	1440	<10	0.31	260	750	30	5.90	<50	20	80
P132864		<50	1.0	<50	2.52	1420	<10	0.56	330	750	30	4.46	<50	20	70
P132865		<50	0.4	<50	1.91	1570	<10	0.44	270	950	<20	4.36	<50	20	50
P132866		<50	0.1	<50	1.13	1770	<10	0.16	60	1810	<20	1.34	<50	10	60
P132867		<50	1.4	<50	<0.05	40	<10	3.39	10	<50	30	0.07	<50	<10	20
P132868		<50	<0.1	<50	0.30	440	<10	<0.05	<10	60	<20	0.10	<50	<10	10
P132869		<50	0.1	<50	6.34	2960	<10	<0.05	120	190	<20	<0.05	<50	<10	380
P132870		<50	1.2	200	4.08	2070	<10	1.16	130	3640	20	<0.05	<50	20	450
P132871		<50	2.4	250	1.01	4890	320	0.27	60	950	30	3.90	<50	10	240
P132872		<50	3.2	<50	1.67	500	<10	1.93	20	410	<20	0.55	<50	10	80
P132873		<50	0.3	<50	0.08	190	<10	0.31	<10	140	<20	0.05	<50	<10	40
P132874		<50	<0.1	<50	12.45	1510	<10	0.10	1420	750	<20	0.89	<50	20	10
P132875		<50	0.4	<50	1.88	1270	<10	3.86	10	1260	<20	3.81	<50	30	40



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P132563		<0.05	<50	<50	<10	<50	<20
P132564		<0.05	<50	<50	10	<50	<20
P132565		0.66	<50	<50	280	<50	80
P132566		0.64	<50	<50	280	<50	80
P132567		0.40	<50	<50	180	<50	90
P132568		0.57	<50	<50	290	<50	90
P132569		0.51	<50	<50	280	<50	110
P132570		0.52	<50	<50	120	<50	60
P132571		0.42	<50	<50	160	<50	230
P132572		0.56	<50	<50	190	<50	350
P132573		0.36	<50	<50	120	<50	250
P132574		<0.05	<50	<50	10	<50	<20
P132575		<0.05	<50	<50	10	<50	3370
P132576		<0.05	<50	<50	20	<50	30
P132577		0.28	<50	<50	130	<50	60
P132851		0.23	<50	<50	290	<50	200
P132852		0.77	<50	<50	60	<50	50
P132853		0.87	<50	<50	70	<50	20
P132854		0.44	<50	<50	140	<50	80
P132855		0.15	<50	<50	360	<50	20
P132856		0.19	<50	<50	290	<50	20
P132857		0.05	<50	<50	30	<50	20
P132858		0.44	<50	<50	380	<50	20
P132859		0.26	<50	<50	370	<50	20
P132860		0.54	<50	<50	530	<50	20
P132861		0.90	<50	<50	150	<50	100
P132862		<0.05	<50	<50	<10	<50	<20
P132863		0.49	<50	<50	240	<50	1480
P132864		0.41	<50	<50	250	<50	1850
P132865		0.31	<50	<50	210	<50	1920
P132866		0.19	<50	<50	80	<50	270
P132867		<0.05	<50	<50	<10	<50	40
P132868		<0.05	<50	<50	10	<50	<20
P132869		<0.05	<50	<50	30	<50	20
P132870		0.51	<50	<50	250	<50	160
P132871		0.29	<50	<50	120	200	40
P132872		0.41	<50	<50	70	<50	130
P132873		<0.05	<50	<50	10	<50	<20
P132874		0.75	<50	<50	170	<50	160
P132875		1.22	<50	<50	210	<50	180



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132876		1.08	0.014		5	1.14	<50	<50	<10	<20	1.94	<10	10	20	1650	2.00
P132877		1.37	<0.001		<1	5.31	<50	390	<10	<20	1.38	<10	40	20	170	9.82
P132878		1.04	0.004		<1	6.51	<50	180	<10	<20	6.08	<10	30	70	120	11.55
P132879		0.95	0.003		<1	6.04	<50	270	<10	<20	4.44	<10	40	20	70	7.65
P132880		1.05	0.004		<1	6.18	<50	80	<10	<20	8.41	<10	60	20	150	8.93
P132881		1.29	0.003		<1	5.73	<50	480	<10	<20	3.79	<10	50	20	120	9.15
P132882		1.24	0.004		<1	6.13	<50	120	<10	<20	3.42	<10	10	10	20	8.60
P132883		1.51	0.002		<1	4.82	<50	340	<10	<20	3.22	<10	<10	10	<10	6.05
P132884		1.12	0.001		<1	0.98	<50	810	<10	<20	<0.05	<10	<10	20	10	1.35
P132885		1.66	0.001		<1	4.22	<50	480	<10	<20	13.50	<10	40	660	20	5.02
P132886		1.37	0.001		<1	1.88	<50	160	<10	<20	1.65	<10	30	50	10	2.76
P132887		1.80	0.002		<1	1.07	<50	140	<10	<20	<0.05	<10	<10	10	10	2.08
P132888		2.45	<0.001		<1	5.43	<50	530	<10	<20	1.05	<10	10	30	130	8.95
P132889		1.75	0.014		<1	4.30	<50	260	<10	<20	0.13	<10	10	40	100	5.79
P132890		0.99	0.054		<1	4.73	530	230	<10	<20	<0.05	<10	10	80	90	8.32
P132891		0.18	<0.001		<1	2.16	<50	360	<10	<20	1.62	<10	10	50	10	1.35
P132892		2.15	0.008		<1	6.07	210	210	<10	<20	0.08	<10	20	80	230	10.35
P132893		0.92	0.019		<1	3.50	<50	<50	<10	<20	<0.05	<10	90	60	280	24.0
P132894		1.74	0.004		<1	0.20	<50	<50	<10	<20	<0.05	<10	<10	20	90	3.93
P132895		1.56	0.018		<1	5.67	80	180	<10	<20	0.14	<10	30	80	240	11.95
P132896		1.48	0.004		<1	3.33	<50	170	<10	<20	0.07	<10	10	40	120	5.19
P132897		1.49	0.040		<1	5.05	890	200	<10	<20	0.13	<10	20	70	340	10.65
P132898		1.31	<0.001		<1	5.16	<50	370	<10	<20	1.63	<10	40	20	210	10.50
P132899		1.57	0.010		<1	3.08	110	260	<10	<20	11.35	<10	20	240	20	4.71
P132900		1.33	0.016		<1	0.66	<50	50	<10	<20	0.26	<10	10	30	10	8.09
P132901		1.41	0.003		<1	4.27	<50	230	<10	<20	4.14	<10	40	520	40	9.89
P132902		1.06	0.002		<1	5.03	50	210	<10	<20	5.47	<10	100	650	70	7.10
P132903		1.44	0.005		<1	2.78	<50	340	<10	<20	1.39	<10	40	350	80	3.88
P132904		1.20	0.511		2	0.16	<50	110	<10	<20	<0.05	<10	<10	70	10	2.60
P132905		1.73	0.004		<1	5.60	<50	120	<10	<20	9.46	<10	50	280	20	7.15
P132906		1.44	0.023		1	5.30	<50	100	<10	<20	6.88	<10	40	330	40	6.50
P132907		1.13	0.011		<1	7.22	<50	360	<10	<20	4.36	<10	40	170	80	8.75
P132908		1.41	0.024		<1	6.49	<50	150	<10	<20	5.15	<10	60	160	120	9.02
P132909		1.10	<0.001		<1	6.98	<50	1190	<10	<20	5.93	<10	30	450	30	6.48
P132910		1.30	0.002		<1	6.41	<50	290	<10	<20	6.72	<10	30	210	100	6.40
P132911		0.74	0.001		1	5.07	<50	70	<10	<20	4.74	<10	30	190	30	5.61
P132912		0.87	0.002		1	5.81	<50	90	<10	<20	4.33	<10	20	210	40	5.82
P132913		1.53	0.011		1	0.95	<50	<50	<10	<20	0.68	<10	20	80	760	13.50
P132914		1.29	0.012		<1	5.86	<50	<50	<10	<20	0.06	<10	10	120	140	21.8
P132915		1.23	0.004		<1	4.07	<50	680	<10	<20	0.90	<10	10	10	70	6.61



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132876		<50	<0.1	<50	0.41	270	<10	0.46	<10	110	2720	0.35	<50	10	30
P132877		<50	0.4	<50	2.22	1280	<10	2.72	20	1280	<20	3.19	<50	30	50
P132878		<50	0.4	<50	2.40	1880	<10	1.22	30	870	<20	0.70	<50	30	140
P132879		<50	0.4	<50	1.69	1450	<10	2.43	40	400	<20	0.38	<50	40	130
P132880		<50	0.1	<50	1.36	1290	<10	0.67	50	490	<20	0.87	<50	40	180
P132881		<50	0.8	<50	1.91	1450	<10	2.32	130	440	<20	1.11	<50	40	110
P132882		50	1.3	160	1.54	2160	10	4.25	<10	190	20	0.61	<50	<10	190
P132883		50	1.1	110	0.90	1420	<10	4.06	<10	270	<20	0.45	<50	<10	90
P132884		<50	4.4	70	0.06	50	<10	0.85	<10	140	50	0.63	<50	<10	10
P132885		<50	2.3	<50	4.31	930	<10	1.46	170	680	<20	<0.05	<50	20	180
P132886		<50	1.0	<50	0.51	320	<10	<0.05	30	440	50	1.58	<50	10	30
P132887		<50	1.1	70	0.09	60	10	1.37	<10	200	20	0.58	<50	<10	10
P132888		<50	0.5	<50	1.67	790	<10	3.19	<10	1190	<20	0.88	<50	30	50
P132889		<50	1.2	<50	1.24	300	<10	0.23	70	320	30	2.46	<50	10	40
P132890		<50	1.1	<50	1.16	240	10	0.24	70	320	60	2.07	<50	10	60
P132891		<50	1.0	<50	0.38	260	<10	2.76	20	220	<20	<0.05	<50	<10	300
P132892		<50	1.1	<50	1.79	350	10	0.27	200	410	<20	5.45	<50	10	80
P132893		<50	<0.1	<50	1.78	440	10	<0.05	80	250	30	>10.0	<50	10	<10
P132894		<50	<0.1	<50	0.10	160	<10	<0.05	<10	190	<20	0.05	<50	<10	10
P132895		<50	1.0	<50	1.78	580	10	0.13	230	430	30	7.35	<50	10	20
P132896		<50	1.4	<50	0.99	260	<10	0.18	80	330	20	2.19	<50	10	30
P132897		<50	1.3	<50	1.50	430	10	0.11	260	380	50	6.85	<50	10	20
P132898		<50	0.3	<50	2.04	1140	<10	2.87	10	1190	<20	3.92	<50	30	50
P132899		<50	1.4	<50	5.23	2490	<10	<0.05	90	490	<20	<0.05	<50	20	760
P132900		<50	0.1	<50	0.22	140	<10	<0.05	10	100	<20	6.86	<50	<10	10
P132901		<50	0.4	<50	1.83	830	<10	1.70	80	790	<20	4.79	<50	20	270
P132902		<50	0.3	<50	1.50	660	10	2.27	150	700	<20	3.23	<50	20	260
P132903		<50	0.9	<50	0.80	360	<10	5.24	80	690	<20	2.02	<50	10	90
P132904		<50	0.1	<50	0.12	140	<10	<0.05	10	50	<20	0.36	<50	<10	<10
P132905		<50	0.2	<50	1.67	990	<10	1.29	70	680	<20	3.01	<50	30	300
P132906		<50	0.3	<50	1.86	860	<10	2.81	80	730	<20	3.02	<50	30	220
P132907		<50	0.8	<50	2.85	1360	<10	3.39	40	1060	<20	2.74	<50	40	350
P132908		<50	0.3	<50	3.35	1290	<10	3.25	60	590	<20	3.05	<50	50	170
P132909		<50	7.3	<50	2.56	1110	<10	0.16	70	<50	<20	<0.05	<50	20	210
P132910		<50	0.9	<50	3.58	1480	<10	1.91	60	340	<20	2.07	<50	30	120
P132911		<50	0.2	<50	2.95	1210	<10	1.84	50	330	<20	1.72	<50	20	120
P132912		<50	0.3	<50	3.07	1180	<10	1.96	60	350	30	1.76	<50	30	130
P132913		<50	<0.1	<50	0.48	340	<10	<0.05	180	320	<20	3.78	<50	<10	<10
P132914		<50	<0.1	<50	2.54	1420	<10	<0.05	200	450	<20	3.61	<50	10	<10
P132915		<50	0.7	<50	1.98	630	<10	2.25	10	1960	<20	4.91	<50	10	140



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P132876		0.11	<50	<50	50	<50	40
P132877		1.20	<50	<50	220	<50	150
P132878		0.74	<50	<50	280	<50	240
P132879		0.49	<50	<50	370	<50	250
P132880		0.48	<50	<50	380	<50	160
P132881		0.49	<50	<50	350	<50	270
P132882		0.21	<50	<50	20	<50	390
P132883		0.20	<50	<50	<10	<50	160
P132884		0.08	<50	<50	<10	<50	340
P132885		0.25	<50	<50	140	<50	90
P132886		0.19	<50	<50	50	<50	20
P132887		0.05	<50	<50	10	<50	80
P132888		1.20	<50	<50	250	<50	80
P132889		0.09	<50	<50	50	<50	260
P132890		0.07	<50	<50	150	<50	260
P132891		0.16	<50	<50	40	<50	20
P132892		0.08	<50	<50	160	<50	730
P132893		0.07	<50	<50	110	<50	460
P132894		<0.05	<50	<50	30	<50	80
P132895		0.08	<50	<50	150	<50	1150
P132896		0.08	<50	<50	70	<50	420
P132897		0.09	<50	<50	140	<50	1000
P132898		1.11	<50	<50	220	<50	120
P132899		0.16	<50	<50	160	<50	70
P132900		<0.05	<50	<50	10	<50	<20
P132901		0.96	<50	<50	450	<50	70
P132902		1.17	<50	<50	440	<50	50
P132903		1.14	<50	<50	420	<50	30
P132904		<0.05	<50	<50	<10	<50	<20
P132905		0.98	<50	<50	390	<50	40
P132906		1.08	<50	<50	400	<50	40
P132907		1.06	<50	<50	370	<50	80
P132908		0.93	<50	<50	400	<50	70
P132909		0.21	<50	<50	80	<50	70
P132910		0.28	<50	<50	240	<50	90
P132911		0.24	<50	<50	200	<50	90
P132912		0.24	<50	<50	200	<50	100
P132913		<0.05	<50	<50	100	<50	410
P132914		0.16	<50	<50	150	<50	1620
P132915		0.71	<50	<50	150	<50	120



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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124058

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132916		1.21	0.003		1	3.22	<50	430	<10	<20	1.81	<10	10	10	30	5.01
P132917		1.34	0.011		1	2.52	<50	280	<10	<20	0.06	<10	10	10	20	3.33
P132918		0.68	0.071		1	2.94	50	100	<10	<20	0.80	<10	20	70	30	7.84
P132919		0.86	0.001		<1	7.53	<50	1060	<10	<20	3.19	<10	20	20	170	6.95
P132920		0.97	<0.001		1	7.52	<50	160	<10	<20	4.24	<10	40	70	150	7.08
P132921		1.45	0.002		1	2.50	<50	170	<10	<20	0.25	<10	50	20	50	6.79
P132922		1.65	0.003		1	1.25	<50	<50	<10	<20	0.15	<10	10	20	20	3.03
P132923		1.40	0.001		1	7.44	<50	90	<10	<20	0.21	<10	40	30	30	11.25
P132924		1.59	0.001		1	5.16	<50	830	<10	<20	0.38	<10	30	30	60	8.18
P132925		1.48	0.012		2	5.26	60	240	<10	<20	8.89	60	10	20	70	9.07
P132926		1.18	0.006		1	2.93	<50	700	<10	<20	0.09	<10	10	10	10	4.05
P132927		1.66	0.016		4	5.13	50	400	<10	<20	4.89	<10	10	10	120	12.00
P132928		1.11	<0.001		<1	6.06	<50	330	<10	<20	5.06	<10	30	20	70	7.51
P132929		0.82	0.003		1	0.91	<50	<50	<10	<20	5.32	<10	10	60	160	18.20
P132930		1.72	0.010		2	1.08	<50	620	<10	<20	<0.05	<10	<10	50	<10	1.82
P132931		0.10	2.44		7	3.65	<50	330	<10	<20	4.27	<10	10	30	70	3.12
P132932		2.17	0.001		<1	2.80	<50	240	<10	<20	7.72	<10	<10	40	30	10.00



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124058

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132916		<50	0.5	<50	1.27	570	<10	3.63	10	1520	<20	4.34	<50	10	130
P132917		<50	1.1	<50	0.98	230	<10	0.66	<10	110	<20	1.06	<50	<10	80
P132918		<50	0.2	<50	1.02	300	<10	0.50	20	740	20	6.48	<50	10	80
P132919		<50	1.4	<50	3.02	860	<10	3.15	20	440	<20	0.79	<50	20	290
P132920		<50	0.1	<50	3.30	1070	<10	3.72	50	470	<20	0.77	<50	10	430
P132921		<50	0.9	<50	0.12	670	<10	0.94	10	940	20	5.95	<50	10	90
P132922		<50	0.1	<50	0.06	520	<10	0.13	<10	460	<20	1.52	<50	<10	20
P132923		<50	0.2	<50	0.75	2660	<10	0.59	10	1640	<20	1.61	<50	20	60
P132924		<50	0.9	<50	2.07	690	<10	2.37	10	1000	20	2.60	<50	20	110
P132925		<50	0.5	<50	3.19	3350	<10	0.28	<10	640	40	5.03	<50	10	80
P132926		<50	2.7	<50	0.47	210	<10	0.70	<10	1360	<20	2.44	<50	10	60
P132927		<50	0.9	<50	1.63	2540	10	0.63	10	860	40	8.75	60	10	130
P132928		<50	0.3	<50	2.33	1700	<10	2.75	10	1720	20	0.77	<50	20	440
P132929		<50	<0.1	<50	2.74	2420	<10	<0.05	60	900	20	2.65	<50	<10	40
P132930		<50	3.2	60	<0.05	70	10	1.23	10	150	40	1.26	<50	<10	10
P132931		<50	2.3	<50	0.81	750	10	0.93	10	650	30	0.87	<50	10	250
P132932		<50	0.5	<50	3.82	720	<10	<0.05	30	360	<20	0.97	<50	10	110



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124058

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P132916		0.65	<50	<50	150	<50	80
P132917		0.11	<50	<50	20	<50	100
P132918		0.16	<50	<50	110	<50	170
P132919		0.78	<50	<50	330	<50	110
P132920		0.62	<50	<50	250	<50	90
P132921		0.43	<50	<50	180	<50	50
P132922		0.15	<50	<50	60	<50	20
P132923		0.52	<50	<50	320	<50	160
P132924		0.46	<50	<50	300	<50	110
P132925		0.28	<50	<50	110	<50	3090
P132926		0.37	<50	<50	130	<50	120
P132927		0.30	<50	<50	80	<50	370
P132928		0.82	<50	<50	170	<50	160
P132929		0.05	<50	<50	60	<50	110
P132930		0.07	<50	<50	<10	<50	50
P132931		0.28	<50	<50	110	<50	90
P132932		0.20	<50	<50	20	<50	100



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124058

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
CRU - 31 CRU - QC LOG - 22 LOG - 24
PUL - 31 PUL - QC SPL - 21 WEI - 21
WSH - 21 WSH - 22

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au - GRA22 Au - ICP22 ME - ICP61a



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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This report is for 167 Rock samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

To: TRUE NORTH NICKEL INC,
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP22 Au ppm 0.001	ME-ICP61a Ag ppm 1	ME-ICP61a Al % 0.05	ME-ICP61a As ppm 50	ME-ICP61a Ba ppm 50	ME-ICP61a Be ppm 10	ME-ICP61a Bi ppm 20	ME-ICP61a Ca % 0.05	ME-ICP61a Cd ppm 10	ME-ICP61a Co ppm 10	ME-ICP61a Cr ppm 10	ME-ICP61a Cu ppm 10	ME-ICP61a Fe % 0.05	ME-ICP61a Ga ppm 50
P137201		1.31	0.003	<1	4.95	<50	140	<10	20	1.91	<10	20	60	80	6.73	<50
P137202		1.09	<0.001	<1	1.37	<50	200	<10	<20	15.30	<10	10	10	<10	7.12	<50
P137203		3.51	0.025	<1	5.21	<50	430	<10	<20	0.74	<10	10	140	180	12.10	<50
P137204		1.04	0.006	<1	4.67	<50	100	<10	20	1.92	<10	50	100	340	18.25	<50
P137205		1.20	<0.001	<1	2.01	<50	240	<10	<20	12.25	<10	60	130	40	11.75	<50
P137206		1.60	0.001	<1	2.40	<50	130	<10	<20	16.70	<10	10	10	10	7.35	<50
P137207		1.35	0.017	<1	0.16	<50	130	<10	<20	0.48	<10	<10	30	10	7.02	<50
P137208		2.47	0.001	<1	3.89	<50	250	<10	<20	13.05	<10	30	570	140	8.06	<50
P137209		1.40	0.001	<1	4.02	<50	230	<10	20	7.13	<10	30	10	150	7.32	<50
P137210		1.51	0.004	<1	3.84	220	330	<10	<20	9.86	<10	50	730	60	6.82	<50
P137211		1.31	0.004	<1	2.85	<50	1050	<10	<20	0.19	<10	10	90	90	1.84	<50
P137212		1.62	0.015	1	4.61	180	300	<10	<20	1.30	<10	40	90	390	21.7	<50
P137213		1.83	0.002	<1	<0.05	<50	<50	<10	<20	<0.05	<10	10	30	80	2.29	<50
P137214		0.97	0.346	2	0.90	50	240	<10	<20	0.09	<10	<10	30	20	4.55	<50
P137215		1.29	<0.001	<1	0.13	<50	<50	<10	20	1.78	<10	<10	40	10	7.27	<50
P137216		1.51	0.076	<1	0.07	<50	80	<10	<20	0.95	<10	<10	30	10	5.28	<50
P137217		1.54	0.013	<1	6.79	<50	970	<10	<20	4.46	<10	40	50	810	11.35	<50
P137218		1.55	0.005	<1	3.74	<50	270	<10	<20	2.54	<10	40	60	60	9.53	<50
P137219		1.44	0.004	<1	6.20	<50	90	<10	<20	4.76	<10	50	60	550	9.48	<50
P137220		0.06	4.55	6	2.32	<50	270	<10	<20	5.03	<10	10	30	60	2.53	<50
P137221		1.88	0.008	<1	3.21	<50	450	<10	<20	2.49	<10	40	90	50	9.33	<50
P137222		1.09	<0.001	<1	<0.05	<50	<50	<10	20	<0.05	<10	20	20	90	3.99	<50
P137223		2.21	0.021	<1	3.84	<50	500	<10	<20	0.72	<10	<10	20	80	2.36	<50
P137224		1.14	0.061	<1	2.38	70	290	<10	<20	0.16	<10	10	20	110	2.43	<50
P137225		1.52	0.049	1	2.71	<50	370	<10	<20	1.33	<10	10	30	1130	2.87	<50
P137226		1.39	0.001	<1	0.05	<50	<50	<10	<20	0.13	<10	<10	40	10	1.75	<50
P137228		0.24	0.001	<1	1.82	<50	110	<10	<20	6.16	<10	30	20	50	10.50	<50
P137229		1.40	0.003	8	1.06	<50	780	<10	<20	<0.05	<10	<10	30	<10	3.08	<50
P137230		1.02	0.002	<1	5.88	<50	410	<10	<20	4.65	<10	40	100	80	9.18	<50
P137231		1.02	0.009	<1	2.84	<50	60	<10	30	1.53	<10	60	70	300	34.6	<50
P137232		0.85	0.003	1	0.75	<50	370	<10	<20	<0.05	<10	<10	20	<10	1.36	<50
P137233		0.53	0.001	<1	0.14	<50	50	<10	<20	3.88	<10	<10	30	<10	3.41	<50
P137235		1.31	0.001	<1	0.05	<50	<50	<10	<20	1.29	<10	<10	40	10	1.52	<50
P137236		1.20	<0.001	<1	0.12	<50	<50	<10	<20	6.30	<10	<10	20	<10	3.21	<50
P137237		1.18	0.134	1	4.09	<50	90	<10	20	9.50	<10	10	40	130	16.15	<50
P137238		1.15	0.022	<1	5.39	90	430	<10	<20	0.55	<10	<10	100	50	17.80	<50

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME-ICP61a K %	ME-ICP61a La ppm	ME-ICP61a Mg %	ME-ICP61a Mn ppm	ME-ICP61a Mo ppm	ME-ICP61a Na %	ME-ICP61a Ni ppm	ME-ICP61a P ppm	ME-ICP61a Pb ppm	ME-ICP61a S %	ME-ICP61a Sb ppm	ME-ICP61a Sc ppm	ME-ICP61a Sr ppm	ME-ICP61a Th ppm	ME-ICP61a Ti %
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50	0.05
P137201		0.3	<50	0.85	550	<10	4.03	30	530	<20	2.13	<50	10	110	<50	0.45
P137202		0.9	<50	4.69	1520	<10	0.07	20	120	<20	0.28	<50	<10	340	<50	0.06
P137203		1.2	<50	1.87	1410	<10	1.39	30	1250	20	4.43	<50	20	30	<50	0.56
P137204		0.5	<50	1.70	690	<10	2.49	240	1070	<20	>10.0	<50	20	60	<50	0.45
P137205		0.4	<50	5.61	1940	30	1.28	120	2220	<20	1.16	<50	10	580	<50	1.12
P137206		0.4	<50	1.17	1550	<10	1.57	<10	1580	<20	0.06	<50	10	380	<50	0.69
P137207		<0.1	<50	0.09	150	10	<0.05	10	<50	<20	5.23	<50	<10	20	<50	<0.05
P137208		0.4	<50	1.41	1470	<10	2.80	90	1600	<20	0.09	<50	30	220	<50	2.10
P137209		0.4	<50	2.07	1400	<10	2.46	20	2250	<20	0.08	<50	10	410	<50	0.89
P137210		1.3	<50	3.91	1160	<10	0.40	240	950	<20	0.08	<50	30	250	<50	0.19
P137211		3.2	<50	0.87	230	10	3.95	20	250	<20	0.06	<50	<10	50	<50	0.34
P137212		1.4	<50	1.69	830	<10	1.26	270	1170	40	>10.0	<50	20	40	<50	0.46
P137213		<0.1	<50	<0.05	70	<10	<0.05	10	<50	<20	1.01	<50	<10	10	<50	<0.05
P137214		0.3	<50	0.06	80	<10	0.30	10	<50	<20	0.87	<50	<10	30	<50	0.08
P137215		<0.1	<50	0.10	390	<10	<0.05	10	<50	<20	0.67	<50	<10	30	<50	<0.05
P137216		<0.1	<50	0.32	210	<10	<0.05	60	80	<20	0.57	<50	<10	10	<50	<0.05
P137217		2.0	<50	3.43	1350	60	2.05	40	990	<20	0.85	<50	30	280	<50	0.56
P137218		0.5	<50	1.74	640	<10	2.26	30	720	<20	5.29	<50	20	270	<50	0.55
P137219		0.2	<50	1.89	1350	<10	3.44	150	830	<20	2.58	<50	30	250	<50	0.66
P137220		1.9	<50	0.66	620	10	0.66	10	460	<20	0.77	<50	10	240	<50	0.21
P137221		0.7	<50	0.98	220	<10	2.47	30	580	<20	8.39	<50	20	240	<50	0.56
P137222		<0.1	<50	<0.05	60	<10	<0.05	30	<50	<20	3.02	<50	<10	10	<50	<0.05
P137223		1.1	<50	0.18	420	<10	3.61	<10	230	<20	0.57	<50	<10	190	<50	0.14
P137224		0.7	<50	0.10	120	<10	3.43	<10	190	<20	1.54	<50	<10	150	<50	0.10
P137225		0.7	<50	0.41	910	<10	0.58	10	520	<20	0.10	<50	10	110	<50	0.23
P137226		<0.1	<50	<0.05	70	<10	<0.05	<10	50	<20	0.08	<50	<10	10	<50	<0.05
P137228		0.4	<50	2.38	1590	<10	0.29	40	190	<20	8.23	<50	10	110	<50	0.18
P137229		3.8	<50	<0.05	30	60	0.28	10	90	300	1.00	<50	<10	20	<50	<0.05
P137230		1.2	<50	2.79	1070	<10	0.67	70	410	<20	2.50	<50	30	150	<50	0.47
P137231		0.2	90	1.34	290	40	1.02	380	2510	20	>10.0	<50	20	30	<50	1.25
P137232		1.8	<50	<0.05	60	<10	<0.05	10	60	20	0.83	<50	<10	10	<50	<0.05
P137233		<0.1	<50	0.08	1230	<10	<0.05	10	60	<20	0.06	<50	<10	60	<50	<0.05
P137235		<0.1	<50	0.51	150	<10	<0.05	10	130	<20	0.74	<50	<10	20	<50	<0.05
P137236		<0.1	<50	1.88	2470	<10	<0.05	<10	70	<20	0.31	<50	<10	50	<50	<0.05
P137237		<0.1	<50	0.94	7070	<10	0.07	10	1690	<20	5.53	<50	10	230	<50	0.21
P137238		1.5	<50	1.42	810	10	1.92	<10	1310	30	0.93	<50	20	60	<50	0.58

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a Ti ppm 50	ME-ICP61a U ppm 50	ME-ICP61a V ppm 10	ME-ICP61a W ppm 50	ME-ICP61a Zn ppm 20
P137201		<50	<50	130	<50	70
P137202		<50	<50	10	<50	30
P137203		<50	<50	200	<50	200
P137204		<50	<50	180	<50	650
P137205		<50	<50	200	<50	100
P137206		<50	<50	100	<50	90
P137207		<50	<50	10	<50	<20
P137208		<50	<50	270	<50	90
P137209		<50	<50	140	<50	150
P137210		<50	<50	200	<50	60
P137211		<50	<50	220	<50	50
P137212		<50	<50	210	<50	1110
P137213		<50	<50	<10	<50	<20
P137214		<50	<50	50	<50	<20
P137215		<50	<50	<10	<50	<20
P137216		<50	<50	<10	<50	<20
P137217		<50	<50	410	<50	120
P137218		<50	<50	310	<50	80
P137219		<50	<50	400	<50	870
P137220		<50	<50	80	<50	50
P137221		<50	<50	350	<50	30
P137222		<50	<50	<10	<50	<20
P137223		<50	<50	10	<50	20
P137224		<50	<50	10	<50	<20
P137225		<50	<50	60	<50	70
P137226		<50	<50	<10	<50	<20
P137228		<50	<50	60	<50	40
P137229		<50	<50	10	<50	<20
P137230		<50	<50	250	<50	130
P137231		<50	<50	360	<50	90
P137232		<50	<50	<10	<50	<20
P137233		<50	<50	10	<50	<20
P137235		<50	<50	<10	<50	<20
P137236		<50	<50	<10	<50	20
P137237		<50	<50	80	<50	680
P137238		<50	<50	230	<50	70

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP22 Au ppm 0.001	ME-ICP61a Ag ppm 1	ME-ICP61a Al % 0.05	ME-ICP61a As ppm 50	ME-ICP61a Ba ppm 50	ME-ICP61a Be ppm 10	ME-ICP61a Bi ppm 20	ME-ICP61a Ca % 0.05	ME-ICP61a Cd ppm 10	ME-ICP61a Co ppm 10	ME-ICP61a Cr ppm 10	ME-ICP61a Cu ppm 10	ME-ICP61a Fe % 0.05	ME-ICP61a Ga ppm 50
P137249		1.46	0.027	<1	1.54	70	<50	<10	<20	4.51	<10	10	280	20	2.38	<50
P137250		1.31	0.001	2	0.55	<50	<50	<10	<20	0.29	<10	<10	40	390	0.98	<50
P137251		1.40	0.004	<1	1.13	<50	<50	<10	<20	0.05	<10	<10	40	490	4.01	<50
P137252		1.20	0.047	1	3.74	<50	330	<10	<20	1.64	<10	10	60	820	14.30	<50
P137253		1.93	0.004	<1	7.20	<50	180	<10	<20	2.96	<10	30	40	30	7.10	<50
P137254		1.06	0.001	<1	6.55	<50	110	<10	<20	6.15	<10	10	60	510	6.95	<50
P137255		1.32	0.007	<1	1.29	<50	70	<10	<20	0.70	<10	<10	30	80	2.51	<50
P137256		1.14	0.001	<1	1.63	<50	440	<10	<20	0.12	<10	<10	60	<10	1.58	<50
P137257		1.10	0.024	<1	6.04	<50	360	<10	<20	5.58	<10	30	150	210	6.30	<50
P137258		1.11	0.010	<1	6.61	<50	150	<10	<20	7.53	<10	40	310	110	10.95	<50
P137259		1.07	0.006	<1	4.18	<50	200	<10	<20	3.49	<10	40	130	20	8.53	<50
P137260		0.51	0.005	<1	5.75	<50	320	<10	<20	3.77	<10	40	50	40	9.08	<50
P137261		0.68	0.005	<1	5.27	<50	370	<10	<20	3.77	<10	40	60	30	8.62	<50
P137262		1.29	0.016	<1	6.06	<50	160	<10	<20	3.96	<10	30	100	20	10.45	<50
P137263		1.27	0.006	<1	6.45	<50	220	<10	<20	4.02	<10	30	40	70	8.07	<50
P137264		1.82	<0.001	<1	<0.05	<50	<50	<10	<20	4.64	<10	<10	20	<10	9.89	<50

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50	0.05
P137249		0.1	<50	2.76	490	<10	1.14	140	110	<20	0.20	<50	10	170	<50	0.06
P137250		0.1	<50	<0.05	160	<10	0.17	10	70	80	0.05	<50	<10	20	<50	<0.05
P137251		<0.1	<50	0.50	300	<10	<0.05	<10	150	<20	0.77	<50	<10	10	<50	0.05
P137252		1.2	<50	1.07	760	10	0.98	700	460	20	9.20	<50	30	70	<50	0.32
P137253		0.7	<50	3.32	950	<10	2.80	30	800	<20	2.45	<50	20	160	<50	0.76
P137254		0.3	<50	2.32	1030	<10	2.90	<10	560	<20	0.57	<50	30	890	<50	0.40
P137255		0.2	<50	0.33	310	<10	0.55	10	160	<20	0.21	<50	10	80	<50	0.15
P137256		1.0	80	0.09	180	<10	2.94	<10	160	50	0.17	<50	<10	40	<50	0.08
P137257		1.3	<50	2.21	1300	<10	0.51	40	840	<20	1.33	<50	30	120	<50	0.61
P137258		0.7	<50	3.81	1990	<10	0.24	70	520	<20	0.89	<50	40	120	<50	0.55
P137259		1.1	<50	0.41	1280	<10	1.19	50	670	<20	7.53	<50	20	170	<50	0.62
P137260		0.7	<50	1.88	430	<10	2.35	20	730	<20	7.74	<50	30	150	<50	0.48
P137261		0.7	<50	1.92	450	<10	2.25	20	770	<20	6.41	<50	30	160	<50	0.45
P137262		0.9	<50	3.81	1110	<10	0.40	40	550	<20	5.79	<50	30	110	<50	0.37
P137263		0.3	<50	3.34	2240	<10	3.30	30	700	<20	2.80	<50	30	300	<50	0.60
P137264		<0.1	<50	2.16	1310	<10	<0.05	10	90	20	0.10	<50	<10	50	<50	<0.05

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		TI	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		50	50	10	50	20
P137249		<50	<50	30	<50	<20
P137250		<50	<50	20	<50	200
P137251		<50	<50	30	<50	30
P137252		<50	<50	280	<50	1200
P137253		<50	<50	290	<50	70
P137254		<50	<50	300	<50	50
P137255		<50	<50	50	<50	<20
P137256		<50	<50	10	<50	190
P137257		<50	<50	250	<50	110
P137258		<50	<50	290	<50	80
P137259		<50	<50	340	<50	<20
P137260		<50	<50	300	<50	20
P137261		<50	<50	310	<50	20
P137262		<50	<50	260	<50	60
P137263		<50	<50	290	<50	160
P137264		<50	<50	30	<50	<20

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP22 Au ppm 0.001	ME-ICP61a Ag ppm 1	ME-ICP61a Al % 0.05	ME-ICP61a As ppm 50	ME-ICP61a Ba ppm 50	ME-ICP61a Be ppm 10	ME-ICP61a Bi ppm 20	ME-ICP61a Ca % 0.05	ME-ICP61a Cd ppm 10	ME-ICP61a Co ppm 10	ME-ICP61a Cr ppm 10	ME-ICP61a Cu ppm 10	ME-ICP61a Fe % 0.05	ME-ICP61a Ga ppm 50
P137501		1.28	0.005	1	6.55	120	500	<10	<20	0.16	<10	10	20	20	12.95	<50
P137502		0.94	0.001	<1	6.20	<50	110	<10	<20	6.45	<10	30	20	60	7.12	<50
P137503		1.18	0.002	<1	6.86	120	250	<10	<20	0.24	<10	10	20	20	10.25	<50
P137504		1.61	0.005	<1	3.73	<50	470	<10	<20	0.17	<10	<10	40	10	2.22	<50
P137505		2.00	0.010	1	7.98	70	470	<10	<20	0.43	<10	20	20	50	13.55	<50
P137506		0.80	0.010	<1	1.29	<50	70	<10	<20	0.14	<10	<10	30	30	0.70	<50
P137507		1.44	0.025	<1	1.35	<50	90	<10	<20	0.08	<10	<10	20	20	0.44	<50
P137508		0.79	0.019	<1	6.62	<50	90	<10	<20	2.40	<10	60	80	710	13.65	<50
P137509		0.78	0.003	<1	4.57	<50	70	<10	<20	1.32	<10	50	80	570	10.20	<50
P137510		1.37	0.010	<1	0.91	<50	110	<10	<20	0.37	<10	<10	40	390	1.09	<50
P137511		1.38	0.018	<1	4.39	<50	530	<10	<20	1.78	<10	20	70	370	5.13	<50
P137512		1.11	0.003	<1	6.09	<50	360	<10	<20	6.51	<10	40	100	120	8.50	<50
P137513		1.12	0.026	<1	5.60	<50	300	<10	<20	5.84	<10	50	600	690	8.01	<50
P137514		1.13	0.002	<1	3.43	<50	70	<10	<20	6.11	<10	10	20	30	4.21	<50
P137515		1.10	0.001	<1	5.10	<50	120	<10	<20	3.41	<10	30	10	170	8.14	<50
P137516		1.11	0.001	<1	4.72	<50	510	<10	<20	3.32	<10	20	<10	180	7.38	<50
P137517		0.86	0.001	<1	1.20	<50	<50	<10	<20	3.03	<10	10	20	<10	3.04	<50
P137518		0.99	0.003	<1	5.62	<50	810	<10	<20	3.31	<10	30	60	130	8.01	<50
P137519		1.24	0.004	<1	5.10	<50	580	<10	<20	1.94	<10	<10	20	<10	5.88	50
P137520		0.03	1.110	44	3.96	110	600	<10	30	1.48	130	270	30	30000	16.15	<50
P137521		1.15	0.004	<1	6.33	<50	60	<10	<20	6.01	<10	80	850	100	8.32	<50
P137522		0.95	0.031	<1	1.67	<50	80	<10	<20	1.12	<10	20	60	260	11.55	<50
P137523		1.07	0.023	<1	1.49	<50	70	<10	<20	3.44	<10	20	40	280	11.90	<50
P137524		1.33	0.025	1	4.48	<50	180	<10	<20	1.44	10	20	190	420	16.45	<50
P137525		1.07	0.004	<1	6.85	<50	240	<10	<20	6.35	<10	30	140	120	6.96	<50
P137526		1.51	0.101	3	2.45	100	140	<10	<20	0.82	10	50	90	530	25.7	<50
P137527		1.48	0.033	<1	4.70	<50	<50	<10	<20	5.33	<10	20	110	200	14.25	<50
P137528		1.47	0.007	<1	7.71	<50	120	<10	<20	14.15	<10	30	650	310	4.59	<50
P137532		1.61	0.006	<1	5.35	<50	350	<10	<20	4.26	<10	30	10	130	10.25	<50
P137533		0.24	0.009	<1	1.64	<50	140	<10	<20	<0.05	<10	10	20	10	3.61	<50
P137534		1.00	0.003	<1	2.86	150	2780	<10	<20	1.18	<10	<10	10	10	1.58	<50
P137535		0.93	0.001	<1	3.09	<50	740	<10	<20	18.60	<10	40	310	120	3.75	<50
P137536		1.84	0.001	<1	6.49	<50	2020	10	<20	6.60	<10	10	<10	10	5.43	<50
P137537		0.93	0.035	<1	4.84	80	190	<10	<20	10.05	<10	40	<10	610	9.20	<50
P137538		1.49	0.018	<1	5.39	120	230	<10	<20	5.80	<10	80	<10	2510	6.22	<50
P137539		1.09	0.003	<1	6.86	60	410	<10	<20	5.94	<10	50	<10	160	8.54	<50
P137540		0.10	0.002	<1	2.41	<50	350	<10	<20	1.56	<10	10	40	<10	1.41	<50
P137541		0.76	0.002	<1	3.54	<50	110	<10	<20	12.80	<10	30	<10	<10	9.63	<50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50	0.05
P137501		0.4	<50	2.58	600	<10	0.22	10	590	40	3.82	<50	20	60	<50	0.21
P137502		0.2	<50	1.36	1300	<10	3.07	10	770	<20	0.07	<50	10	280	<50	0.78
P137503		0.7	<50	2.03	540	<10	0.34	<10	740	<20	2.54	<50	20	80	<50	0.30
P137504		4.1	80	0.13	510	<10	2.56	10	100	<20	<0.05	<50	<10	40	<50	0.16
P137505		0.8	<50	2.65	950	<10	0.31	10	1000	<20	4.01	<50	30	90	<50	0.32
P137506		0.1	<50	<0.05	100	<10	5.19	<10	70	<20	0.19	<50	<10	80	<50	<0.05
P137507		0.2	<50	<0.05	80	<10	4.53	<10	<50	30	0.08	<50	<10	70	<50	<0.05
P137508		0.2	<50	2.26	870	20	3.68	170	730	<20	6.68	<50	20	210	<50	0.38
P137509		0.1	<50	1.50	650	10	4.60	120	770	<20	5.23	<50	10	160	<50	0.40
P137510		0.4	<50	0.23	180	<10	0.25	<10	70	<20	0.06	<50	<10	50	<50	<0.05
P137511		1.4	<50	1.27	690	<10	1.32	10	470	<20	0.07	<50	10	270	<50	0.19
P137512		1.0	<50	2.59	1520	<10	2.00	30	790	<20	0.12	<50	30	350	<50	0.78
P137513		0.8	<50	6.91	1260	<10	0.96	230	710	<20	<0.05	<50	40	480	<50	0.19
P137514		0.1	<50	0.52	610	<10	0.65	10	180	20	<0.05	<50	10	890	<50	0.08
P137515		0.2	<50	1.86	680	<10	2.80	10	930	<20	2.47	<50	20	330	<50	0.75
P137516		1.2	<50	1.52	780	<10	1.73	<10	840	<20	2.30	<50	10	210	<50	0.64
P137517		<0.1	<50	0.13	370	<10	0.08	10	150	<20	<0.05	<50	<10	310	<50	0.19
P137518		1.2	<50	1.88	1080	<10	1.85	20	430	20	0.53	<50	20	170	<50	0.34
P137519		2.8	130	0.99	1350	<10	3.32	10	300	20	0.54	<50	<10	120	<50	0.12
P137520		0.9	<50	1.21	650	10	0.46	20	520	5960	>10.0	70	10	40	<50	0.12
P137521		0.3	<50	6.74	1220	<10	2.25	380	270	<20	0.56	<50	40	80	<50	0.46
P137522		0.3	<50	0.92	620	<10	0.19	380	250	20	6.11	<50	10	20	<50	0.11
P137523		0.4	<50	1.03	790	<10	0.19	460	270	20	6.78	<50	10	40	<50	0.09
P137524		0.9	<50	2.15	530	10	0.99	440	680	20	9.11	<50	20	90	<50	0.29
P137525		0.9	<50	3.96	1230	<10	1.70	30	880	<20	0.64	<50	20	470	<50	0.44
P137526		0.6	<50	0.44	260	20	1.00	820	850	80	>10.0	<50	10	90	<50	0.16
P137527		0.3	<50	2.37	2050	<10	0.46	70	2280	<20	1.02	<50	10	120	<50	0.27
P137528		0.3	<50	1.64	810	<10	1.11	170	120	<20	0.43	<50	10	780	<50	0.09
P137532		0.4	<50	1.50	990	<10	1.86	30	830	<20	0.42	<50	30	150	<50	0.46
P137533		0.7	50	<0.05	130	10	2.19	20	170	20	2.12	<50	<10	20	<50	0.05
P137534		1.5	<50	0.10	260	<10	3.82	<10	240	110	0.16	<50	<10	780	<50	0.12
P137535		0.3	80	2.80	1350	<10	1.61	140	2690	<20	0.09	<50	20	660	<50	1.41
P137536		2.3	460	3.99	1570	<10	2.43	<10	3300	30	0.30	<50	10	500	<50	0.76
P137537		1.0	<50	2.43	1990	<10	2.10	20	250	<20	0.53	<50	30	500	<50	0.27
P137538		1.1	<50	1.22	1140	<10	3.95	30	200	<20	0.85	<50	30	280	<50	0.47
P137539		1.5	<50	1.42	1750	<10	2.64	10	290	<20	0.42	<50	50	380	<50	0.47
P137540		1.1	<50	0.40	260	<10	2.56	20	230	<20	<0.05	<50	<10	310	<50	0.16
P137541		0.5	<50	2.47	3380	<10	1.61	10	200	<20	0.07	<50	30	500	<50	0.24

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		TI	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		50	50	10	50	20
P137501		<50	<50	220	<50	470
P137502		<50	<50	260	<50	90
P137503		<50	<50	240	<50	250
P137504		<50	<50	10	<50	80
P137505		<50	<50	240	<50	450
P137506		<50	<50	<10	<50	<20
P137507		<50	<50	<10	<50	20
P137508		<50	<50	230	<50	290
P137509		<50	<50	190	<50	180
P137510		<50	<50	20	<50	<20
P137511		<50	<50	140	<50	50
P137512		<50	<50	340	<50	90
P137513		<50	<50	220	<50	70
P137514		<50	<50	210	<50	<20
P137515		<50	<50	300	<50	30
P137516		<50	<50	270	<50	60
P137517		<50	<50	170	<50	<20
P137518		<50	<50	230	<50	210
P137519		<50	<50	<10	<50	520
P137520		<50	<50	30	<50	23200
P137521		<50	<50	260	<50	70
P137522		<50	<50	100	<50	470
P137523		<50	<50	100	<50	410
P137524		<50	<50	240	<50	2160
P137525		<50	<50	190	<50	120
P137526		<50	<50	410	<50	2620
P137527		<50	<50	140	<50	140
P137528		<50	<50	200	<50	20
P137532		<50	<50	350	<50	140
P137533		<50	<50	20	<50	70
P137534		<50	<50	20	<50	100
P137535		<50	<50	240	<50	60
P137536		<50	<50	210	<50	90
P137537		<50	<50	310	<50	140
P137538		<50	<50	380	<50	20
P137539		<50	<50	440	<50	30
P137540		<50	<50	40	<50	<20
P137541		<50	<50	200	<50	20

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16124059

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-ICP61a Ag ppm	ME-ICP61a Al %	ME-ICP61a As ppm	ME-ICP61a Ba ppm	ME-ICP61a Be ppm	ME-ICP61a Bi ppm	ME-ICP61a Ca %	ME-ICP61a Cd ppm	ME-ICP61a Co ppm	ME-ICP61a Cr ppm	ME-ICP61a Cu ppm	ME-ICP61a Fe %	ME-ICP61a Ga ppm
P137542		1.49	0.001	<1	3.96	<50	160	<10	<20	2.93	<10	<10	20	<10	1.74	<50
P137543		1.01	0.010	<1	4.47	<50	560	<10	<20	3.97	<10	10	40	30	3.51	<50
P137544		2.26	0.036	<1	4.08	<50	600	<10	<20	3.74	<10	10	40	230	4.26	<50
P137545		3.99	0.011	<1	5.05	50	250	10	<20	6.18	<10	20	10	200	10.25	<50
P137546		1.13	0.001	<1	2.04	<50	<50	<10	<20	2.36	<10	20	40	50	4.52	<50
P137547		0.72	0.001	<1	0.63	<50	420	<10	<20	4.31	<10	<10	10	<10	0.73	<50
P137548		1.21	0.002	<1	1.39	<50	<50	<10	<20	0.16	<10	<10	40	60	0.51	<50
P137549		1.29	<0.001	<1	2.59	<50	1060	<10	<20	0.72	<10	<10	20	<10	1.62	<50
P137550		1.08	0.003	<1	2.13	<50	330	<10	<20	0.36	<10	10	40	30	7.13	<50
P137551		0.40	<0.001	<1	0.13	<50	<50	<10	<20	12.65	<10	10	30	<10	0.47	<50
P137552		0.39	<0.001	<1	5.74	<50	60	<10	<20	3.94	<10	70	1540	40	6.63	<50
P137553		1.15	<0.001	<1	4.65	<50	310	<10	<20	10.30	<10	40	50	60	8.14	<50
P137554		1.30	<0.001	<1	<0.05	<50	<50	<10	<20	0.05	<10	<10	20	<10	8.79	<50
P137555		1.02	<0.001	<1	7.23	<50	550	<10	<20	5.43	<10	40	200	80	7.25	<50
P137556		2.62	0.001	<1	2.34	<50	80	<10	<20	3.47	<10	10	50	90	3.95	<50
P137557		1.56	<0.001	<1	0.05	<50	810	<10	<20	0.10	<10	<10	50	10	6.08	<50
P137558		1.42	0.001	<1	2.48	320	<50	<10	<20	9.01	<10	60	870	90	7.42	<50
P137559		2.14	0.033	<1	5.03	850	410	<10	<20	2.66	<10	20	50	90	5.50	<50
P137560		1.78	0.001	<1	3.24	<50	360	<10	<20	1.19	<10	20	30	100	4.60	<50
P137561		2.79	0.001	<1	4.93	<50	590	<10	<20	2.32	<10	30	50	290	6.11	<50
P137562		1.12	0.003	<1	3.41	330	90	<10	<20	4.43	<10	60	1170	90	6.78	<50
P137563		1.58	0.006	<1	3.09	500	60	<10	<20	6.72	<10	60	1010	100	5.58	<50
P137564		2.55	0.003	<1	0.53	50	<50	<10	<20	4.99	<10	10	200	10	1.30	<50
P137565		3.31	0.022	<1	4.70	<50	60	<10	<20	2.03	<10	20	110	200	2.11	<50
P137566		1.26	<0.001	<1	2.89	60	60	<10	<20	3.75	<10	70	1050	30	6.49	<50
P137567		1.99	0.002	<1	1.91	270	60	<10	<20	2.23	<10	40	670	80	4.75	<50
P137568		1.33	0.007	<1	1.49	<50	100	<10	<20	1.16	<10	10	50	230	2.55	<50
P137569		0.98	<0.001	<1	6.60	<50	100	<10	<20	7.01	<10	30	20	40	7.66	<50
P137570		0.96	<0.001	<1	6.34	<50	450	<10	<20	5.80	<10	30	40	110	8.15	<50
P137571		1.18	<0.001	<1	0.92	<50	<50	<10	<20	0.62	<10	<10	30	10	2.16	<50
P137572		1.35	<0.001	<1	4.62	<50	80	<10	<20	3.22	<10	20	40	70	4.81	<50
P137573		1.66	0.002	<1	5.70	<50	250	<10	<20	3.98	<10	20	90	50	6.59	<50
P137574		1.46	0.007	<1	4.20	<50	370	<10	<20	5.67	<10	40	80	70	8.98	<50
P137575		1.32	0.012	<1	3.57	<50	<50	<10	<20	15.25	<10	30	390	130	2.39	<50
P137576		2.09	0.234	<1	0.26	870	<50	<10	<20	7.87	<10	10	30	120	7.99	<50
P137577		1.63	<0.001	<1	4.52	<50	700	<10	<20	0.78	<10	<10	60	10	2.01	50
P137578		1.14	0.001	<1	3.30	<50	770	<10	<20	0.35	<10	10	30	30	2.76	<50
P137579		1.93	0.003	<1	5.91	<50	<50	<10	<20	1.72	<10	20	30	160	4.33	<50
P137580		0.06	4.44	4	2.22	<50	270	<10	<20	4.82	<10	10	30	60	2.32	<50
P137581		2.69	0.007	<1	0.68	<50	<50	<10	<20	3.65	<10	20	50	50	6.48	<50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
P137542		1.1	150	0.96	1140	10	3.14	10	560	<20	0.06	<50	<10	160	<50
P137543		1.4	<50	0.98	680	<10	2.99	30	1060	<20	0.06	<50	<10	690	<50
P137544		1.7	<50	1.36	780	10	2.31	40	1220	<20	<0.05	<50	<10	450	<50
P137545		0.6	150	1.28	4010	10	3.87	<10	3340	40	2.24	<50	10	550	<50
P137546		0.1	<50	0.83	620	<10	0.45	20	490	<20	0.47	<50	10	90	<50
P137547		0.5	<50	0.31	380	<10	<0.05	<10	90	<20	0.15	<50	<10	80	<50
P137548		<0.1	<50	0.16	150	<10	4.62	10	230	<20	0.06	<50	<10	60	<50
P137549		3.6	<50	0.13	210	<10	1.90	<10	230	20	<0.05	<50	<10	280	<50
P137550		0.8	<50	0.67	160	<10	2.70	100	300	20	6.83	<50	<10	50	<50
P137551		<0.1	<50	0.10	510	<10	<0.05	10	<50	<20	<0.05	<50	<10	70	<50
P137552		0.1	<50	7.90	960	<10	0.69	660	120	<20	0.10	<50	30	60	<50
P137553		0.2	120	2.14	2260	<10	3.99	30	4330	20	0.44	<50	40	1100	<50
P137554		<0.1	<50	<0.05	150	<10	<0.05	<10	<50	<20	<0.05	<50	<10	10	<50
P137555		1.2	<50	5.07	1310	<10	3.09	100	330	<20	0.07	<50	40	140	<50
P137556		0.2	<50	0.73	670	<10	0.69	<10	360	<20	0.07	<50	10	320	<50
P137557		0.1	<50	<0.05	70	<10	<0.05	60	<50	<20	<0.05	<50	<10	20	<50
P137558		0.1	<50	7.14	1540	<10	<0.05	610	280	<20	<0.05	<50	20	470	<50
P137559		1.4	<50	0.76	1020	<10	2.82	10	940	<20	0.14	<50	20	170	<50
P137560		0.8	<50	1.35	620	<10	0.45	<10	230	<20	0.97	<50	10	70	<50
P137561		1.5	<50	1.24	730	<10	2.36	10	1090	<20	1.64	<50	20	250	<50
P137562		1.2	<50	9.78	1090	<10	0.09	840	170	<20	0.09	<50	20	180	<50
P137563		1.1	<50	8.08	1140	<10	0.43	700	190	<20	0.21	<50	20	250	<50
P137564		0.3	<50	2.62	600	<10	0.08	90	180	20	0.09	<50	10	150	<50
P137565		0.2	<50	1.05	510	<10	6.46	90	270	<20	0.72	<50	<10	180	<50
P137566		1.1	<50	9.26	970	<10	0.06	870	180	<20	<0.05	<50	20	110	<50
P137567		1.0	<50	7.13	710	<10	<0.05	410	90	<20	0.05	<50	10	70	<50
P137568		0.3	<50	0.59	390	<10	0.41	<10	190	40	<0.05	<50	10	110	<50
P137569		0.3	<50	2.10	1620	<10	2.21	<10	730	<20	<0.05	<50	20	340	<50
P137570		0.8	<50	2.37	1520	<10	1.55	20	1330	<20	0.25	<50	30	340	<50
P137571		0.1	<50	0.28	320	<10	0.25	<10	80	<20	<0.05	<50	10	20	<50
P137572		0.4	<50	1.73	1270	<10	2.60	20	490	<20	0.06	<50	10	60	<50
P137573		0.6	<50	1.87	1030	<10	2.33	10	1310	<20	1.04	<50	10	380	<50
P137574		0.8	<50	1.24	900	<10	1.37	20	1600	<20	3.95	<50	10	650	<50
P137575		0.2	<50	2.93	1520	<10	3.04	260	160	<20	0.20	<50	10	520	<50
P137576		0.1	<50	0.87	3260	<10	<0.05	30	600	<20	2.56	<50	<10	160	<50
P137577		3.9	70	0.33	310	10	2.57	<10	70	50	0.16	<50	<10	90	<50
P137578		3.8	80	0.18	190	10	1.80	<10	90	110	1.66	<50	<10	60	<50
P137579		0.2	<50	0.94	460	<10	5.60	10	1610	<20	2.59	<50	20	100	<50
P137580		2.0	<50	0.63	610	10	0.64	10	440	20	0.75	<50	<10	230	<50
P137581		<0.1	<50	0.49	410	<10	<0.05	20	450	<20	4.87	<50	<10	30	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		TI	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
P137542		<50	<50	20	<50	<20
P137543		<50	<50	130	<50	30
P137544		<50	<50	140	<50	40
P137545		<50	<50	50	<50	790
P137546		<50	<50	100	<50	40
P137547		<50	<50	10	<50	<20
P137548		<50	<50	<10	<50	<20
P137549		<50	<50	30	<50	<20
P137550		<50	<50	80	<50	30
P137551		<50	<50	<10	<50	<20
P137552		<50	<50	200	<50	60
P137553		<50	<50	290	<50	50
P137554		<50	<50	50	<50	<20
P137555		<50	<50	260	<50	100
P137556		<50	<50	130	<50	50
P137557		<50	<50	<10	<50	<20
P137558		<50	<50	160	<50	70
P137559		<50	<50	170	<50	70
P137560		<50	<50	130	<50	70
P137561		<50	<50	160	<50	80
P137562		<50	<50	160	<50	70
P137563		<50	<50	140	<50	70
P137564		<50	<50	30	<50	20
P137565		<50	<50	30	<50	20
P137566		<50	<50	170	<50	70
P137567		<50	<50	90	<50	50
P137568		<50	<50	70	<50	50
P137569		<50	<50	240	<50	100
P137570		<50	<50	330	<50	90
P137571		<50	<50	40	<50	50
P137572		<50	<50	150	<50	170
P137573		<50	<50	150	<50	160
P137574		<50	<50	150	<50	200
P137575		<50	<50	70	<50	20
P137576		<50	<50	30	<50	130
P137577		<50	<50	<10	<50	280
P137578		<50	<50	<10	<50	250
P137579		<50	<50	210	<50	40
P137580		<50	<50	80	<50	50
P137581		<50	<50	30	<50	<20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124059

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
P137582		1.71	0.006	<1	5.60	<50	70	<10	<20	1.53	<10	60	50	30	9.58	<50
P137583		1.20	0.003	<1	0.09	<50	<50	<10	<20	1.43	<10	10	20	10	4.88	<50
P137584		1.36	0.005	<1	4.25	<50	<50	<10	<20	3.67	<10	50	240	220	6.73	<50
P137585		1.14	0.002	<1	3.49	290	110	<10	<20	3.70	<10	60	1130	40	7.60	<50
P137586		1.03	0.002	<1	2.90	350	100	<10	<20	4.30	<10	60	850	20	6.53	<50
P137587		3.52	0.001	<1	3.89	90	90	<10	<20	2.36	<10	80	1380	50	7.84	<50
P137588		1.63	0.002	<1	3.03	510	60	<10	<20	4.02	<10	60	980	90	6.36	<50



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124059

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50	0.05
P137582		0.1	<50	2.35	620	<10	2.00	40	620	<20	4.86	<50	30	50	<50	0.19
P137583		<0.1	<50	0.07	240	<10	<0.05	<10	<50	20	4.92	<50	<10	20	<50	<0.05
P137584		<0.1	<50	4.58	630	<10	0.85	280	790	<20	0.50	<50	20	70	<50	0.68
P137585		1.0	<50	9.15	1120	<10	0.12	650	270	<20	<0.05	<50	20	150	<50	0.34
P137586		1.0	<50	8.06	1020	<10	0.11	520	200	<20	<0.05	<50	20	150	<50	0.22
P137587		1.2	<50	10.25	920	<10	0.13	950	210	<20	0.11	<50	30	60	<50	0.41
P137588		0.7	<50	9.29	1010	<10	0.06	630	170	<20	0.12	<50	20	90	<50	0.31

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124059

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
P137582		<50	<50	220	<50	40
P137583		<50	<50	<10	<50	60
P137584		<50	<50	270	<50	50
P137585		<50	<50	160	<50	60
P137586		<50	<50	130	<50	50
P137587		<50	<50	180	<50	70
P137588		<50	<50	140	<50	60

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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124059

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.
 ALL METHODS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-22	LOG-24
PUL-31	PUL-QC	SPL-21	WEI-21
WSH-21	WSH-22		

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
 Au-ICP22 ME-ICP61a



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16124060

Project: QK-2016-TS-001

This report is for 145 Soil samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
SCR-41	Screen to -180um and save both
DRY-22	Drying - Maximum Temp 60C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP22	Au 50g FA ICP-AES finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124060

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726651		1.78	0.003	0.10	7.69	13.4	520	1.44	0.14	2.01	0.21	77.6	25.9	96	2.06	55.1
S726652		1.60	0.004	0.05	7.30	11.9	440	1.22	0.09	2.33	0.14	64.6	22.9	93	1.20	45.7
S726653		1.52	0.003	0.06	7.10	9.2	430	1.14	0.10	2.50	0.12	61.5	19.5	74	1.05	32.1
S726654		1.30	0.005	0.05	6.83	10.6	450	1.15	0.05	2.00	0.15	65.9	18.8	98	0.98	40.2
S726655		1.38	0.026	0.11	7.89	35.7	520	1.34	0.11	1.66	0.15	65.7	28.5	99	1.75	96.7
S726656		1.04	0.012	0.07	7.68	27.2	560	1.32	0.10	1.55	0.13	64.0	19.1	86	1.71	41.5
S726657		1.33	0.006	0.07	7.38	217	470	1.28	0.10	1.92	0.27	78.3	28.4	112	1.24	60.3
S726658		1.57	0.005	0.03	5.14	3.6	110	0.55	0.11	4.62	0.08	33.2	72.5	1000	2.29	81.6
S726659		1.63	0.005	0.04	5.33	5.6	110	0.45	0.06	4.72	0.11	21.3	77.9	1050	2.86	104.0
S726661		1.72	0.004	0.07	7.45	13.1	470	1.34	0.12	1.56	0.29	66.6	32.2	296	1.80	52.3
S726662		1.68	0.003	0.07	7.20	10.9	490	1.44	0.10	1.78	0.18	81.4	33.6	367	1.92	59.9
S726663		1.86	0.003	0.07	6.77	12.2	480	1.30	0.09	1.77	0.15	70.9	27.2	336	1.75	54.0
S726664		1.57	0.003	0.09	6.73	19.7	510	1.62	0.13	1.87	0.29	84.8	27.7	253	2.02	52.6
S726665		1.39	0.004	0.06	6.97	5.9	490	1.20	0.08	2.20	0.12	62.3	24.3	159	1.85	78.1
S726666		1.38	0.003	0.05	7.32	3.2	510	1.29	0.09	2.04	0.12	61.9	23.0	145	2.01	63.4
S726667		1.39	0.002	0.05	6.87	3.4	500	1.41	0.08	2.11	0.15	73.4	19.1	119	1.58	34.2
S726668		1.27	0.007	0.05	6.61	5.0	400	1.14	0.07	2.10	0.18	60.8	22.6	151	1.28	54.8
S726669		1.12	0.015	0.03	6.86	2.3	440	1.05	0.06	2.00	0.10	50.0	26.4	183	1.52	43.1
S726670		<0.02	0.027	0.15	8.24	13.9	180	0.79	0.31	0.19	0.04	37.3	30.5	530	4.01	358
S726671		1.43	0.003	0.03	6.90	3.4	460	1.04	0.07	2.72	0.16	61.4	24.4	164	1.46	53.7
S726672		1.39	0.010	0.04	6.87	6.9	460	1.45	0.08	2.28	0.18	75.3	22.3	196	1.48	38.0
S726673		1.37	0.001	0.03	7.15	3.1	510	1.31	0.08	2.25	0.20	81.2	22.7	163	1.61	41.1
S726674		1.70	0.002	0.04	6.97	3.7	530	1.45	0.10	2.14	0.20	86.4	20.4	122	1.87	59.4
S726675		1.41	0.003	0.06	7.21	4.6	530	1.52	0.12	2.07	0.20	74.1	23.5	149	2.08	77.1
S726676		1.35	0.003	0.02	6.94	3.2	430	1.29	0.11	2.21	0.11	81.2	20.2	113	1.04	51.8
S726677		1.68	0.002	0.04	6.68	6.7	490	2.01	0.13	2.25	0.17	200	25.8	156	1.80	45.7
S726678		1.56	0.002	0.07	7.08	4.8	580	1.72	0.10	1.90	0.19	94.4	19.6	99	2.17	37.4
S726679		1.27	0.007	0.03	6.97	3.2	470	1.32	0.07	2.50	0.14	78.2	19.8	162	1.35	37.3
S726680		1.76	0.004	0.08	7.54	14.8	480	1.24	0.12	2.12	0.35	75.4	42.5	232	2.12	113.0
S726681		1.26	0.001	0.06	7.17	5.1	590	1.54	0.13	1.96	0.18	93.3	20.2	105	2.22	45.8
S726682		1.08	0.001	0.07	6.83	7.3	500	1.74	0.11	2.17	0.16	136.5	21.2	123	1.99	49.3
S726683		1.18	0.002	0.07	7.89	8.3	570	1.90	0.15	2.04	0.09	121.5	27.1	246	2.83	79.9
S726684		1.23	0.004	0.04	7.40	7.7	510	1.38	0.10	2.65	0.14	79.9	31.1	370	1.67	65.2
S726685		1.10	0.001	0.08	7.01	5.3	540	1.87	0.12	2.10	0.11	117.5	21.4	151	1.86	46.6
S726686		1.52	0.005	0.04	7.34	5.2	530	1.17	0.09	2.94	0.13	75.1	31.9	532	1.22	62.5
S726687		1.07	0.009	0.08	7.66	9.5	430	1.00	0.10	3.01	0.19	56.8	60.4	834	2.71	251
S726688		0.96	0.003	0.02	7.20	5.2	500	1.47	0.10	2.46	0.13	95.3	25.3	264	1.55	46.4
S726689		0.80	0.005	0.04	6.90	5.9	570	1.47	0.09	2.41	0.09	84.2	30.2	341	1.51	77.8
S726690		0.09	0.001	0.03	6.28	1.2	420	1.00	0.06	1.92	0.04	22.8	6.0	39	0.74	6.9
S726691		1.21	0.007	0.08	6.86	28.3	490	1.37	0.11	2.56	0.15	84.3	42.8	426	1.85	148.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124060

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726651		5.22	19.50	0.17	4.2	0.054	1.64	37.3	24.2	1.60	909	0.63	1.98	22.7	46.3	1060
S726652		5.18	18.40	0.16	3.8	0.054	1.31	30.5	18.1	1.64	839	0.52	2.05	20.0	41.6	1010
S726653		4.66	17.95	0.18	4.0	0.055	1.29	28.5	16.6	1.45	751	0.44	2.12	17.3	33.1	910
S726654		4.38	16.60	0.18	3.8	0.053	1.32	29.8	15.4	1.42	727	0.42	2.08	18.6	44.7	910
S726655		5.82	19.90	0.16	3.8	0.054	1.75	30.5	22.3	1.63	1180	0.65	1.78	12.8	53.6	1020
S726656		4.60	18.75	0.18	4.4	0.054	1.81	32.1	20.0	1.27	793	0.48	1.97	14.0	41.2	970
S726657		5.26	18.80	0.19	4.9	0.064	1.35	36.5	18.1	1.44	1000	0.69	2.08	23.9	53.8	1340
S726658		7.72	13.35	0.12	2.3	0.051	0.32	14.5	19.3	10.15	1160	0.19	0.74	11.6	824	780
S726659		8.33	13.30	0.09	1.9	0.052	0.31	9.6	20.1	10.30	1260	0.14	0.83	7.4	841	620
S726661		6.09	18.45	0.15	3.6	0.063	1.48	29.4	24.3	2.58	986	0.61	1.78	18.7	141.0	910
S726662		5.61	17.60	0.20	3.7	0.055	1.46	39.3	24.7	2.38	837	0.90	1.84	22.7	164.5	1040
S726663		4.91	16.40	0.17	3.8	0.049	1.47	35.6	22.0	2.06	759	0.60	1.83	19.7	152.5	990
S726664		4.73	17.30	0.18	4.9	0.055	1.57	41.9	22.1	1.66	715	0.84	1.96	23.9	124.0	1210
S726665		5.34	15.60	0.17	3.7	0.057	1.42	30.6	18.1	1.87	965	0.35	1.83	15.5	56.6	980
S726666		5.30	16.60	0.15	3.1	0.051	1.59	29.2	21.3	1.88	786	0.39	1.94	15.8	56.2	900
S726667		4.70	16.90	0.18	4.0	0.058	1.49	36.2	19.5	1.50	808	0.56	2.10	22.0	48.5	1090
S726668		5.44	15.65	0.17	3.2	0.059	1.15	29.1	17.0	1.75	940	0.39	1.90	15.8	55.6	1040
S726669		5.85	15.35	0.15	2.5	0.046	1.22	23.1	22.5	2.34	1000	0.32	1.77	16.2	51.5	970
S726670		14.40	21.0	0.12	4.1	0.090	0.42	18.3	20.8	0.23	460	2.41	0.10	14.4	230	420
S726671		5.67	17.65	0.10	3.4	0.065	1.29	28.9	18.4	1.96	954	0.45	2.02	20.3	57.7	1080
S726672		5.39	16.75	0.11	3.5	0.057	1.38	36.9	20.2	2.16	919	0.55	2.00	32.3	73.8	1230
S726673		5.39	18.30	0.14	4.6	0.060	1.52	39.7	20.8	1.86	954	0.54	2.12	24.4	67.1	1190
S726674		4.81	18.05	0.13	4.8	0.063	1.62	42.4	21.9	1.53	858	0.58	2.05	25.4	53.4	1160
S726675		5.57	19.20	0.14	4.0	0.068	1.57	38.1	24.7	1.88	922	0.71	1.98	19.6	67.6	1110
S726676		5.44	18.05	0.10	4.8	0.068	1.25	39.9	17.9	1.65	825	0.54	2.09	28.1	41.8	1190
S726677		5.92	18.35	0.18	4.3	0.100	1.45	99.3	26.6	2.08	1170	0.58	1.95	60.0	90.2	1800
S726678		4.88	19.15	0.12	4.8	0.058	1.83	48.6	23.5	1.41	766	1.13	2.16	33.3	51.4	1260
S726679		4.94	17.85	0.12	4.5	0.060	1.37	37.7	19.1	1.71	837	0.56	2.14	29.6	57.5	1120
S726680		6.98	20.0	0.15	3.4	0.070	1.43	36.6	24.6	2.52	1180	1.11	1.78	23.4	138.5	1170
S726681		4.90	19.10	0.19	4.7	0.057	1.76	47.2	23.7	1.50	767	0.67	2.06	27.7	52.6	1280
S726682		5.08	19.45	0.22	4.8	0.069	1.46	69.8	23.5	1.56	951	1.05	2.07	55.4	58.8	1890
S726683		5.92	22.9	0.20	4.7	0.080	1.58	65.0	31.9	2.21	687	0.95	1.92	39.4	118.0	1210
S726684		5.69	19.65	0.15	4.1	0.062	1.42	39.2	23.9	2.65	902	0.66	2.10	30.4	174.5	1140
S726685		4.96	20.2	0.23	5.2	0.066	1.65	62.8	22.6	1.57	800	0.95	2.15	86.5	66.4	1540
S726686		4.91	18.25	0.16	5.0	0.051	1.38	34.7	20.5	2.68	943	0.41	2.22	18.9	233	1010
S726687		6.68	17.85	0.16	3.3	0.062	1.09	29.0	35.1	4.85	1410	0.50	1.58	20.4	529	890
S726688		5.25	19.55	0.15	5.1	0.060	1.41	43.9	22.3	2.01	878	0.63	2.23	39.3	111.5	1310
S726689		5.11	18.55	0.16	4.7	0.053	1.34	41.5	21.8	2.21	898	0.65	2.08	34.0	155.5	1080
S726690		1.55	14.80	0.16	1.3	0.022	1.23	9.6	8.1	0.54	282	0.10	2.80	4.7	20.4	260
S726691		5.51	19.10	0.17	4.2	0.058	1.39	41.9	24.3	2.46	1000	0.78	1.90	26.3	209	1090



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726651		13.9	59.9	<0.002	0.01	1.23	19.3	1	1.5	273	1.00	0.05	8.89	0.576	1.6
S726652		10.1	40.6	<0.002	<0.01	1.56	21.1	1	1.4	288	0.97	0.06	6.08	0.653	1.3
S726653		10.4	41.0	<0.002	0.01	1.39	21.3	1	1.4	307	1.20	<0.05	5.98	0.609	1.2
S726654		9.9	42.6	<0.002	<0.01	2.22	18.7	1	1.2	275	0.92	0.06	5.88	0.620	1.3
S726655		10.4	56.2	<0.002	0.02	3.93	23.3	1	1.4	226	0.71	<0.05	6.09	0.631	1.2
S726656		11.7	65.6	<0.002	0.01	3.54	18.6	1	1.4	256	0.80	0.06	7.37	0.601	1.4
S726657		10.2	46.0	<0.002	0.01	6.40	20.8	1	1.6	257	1.11	0.26	6.74	0.782	1.7
S726658		2.9	14.9	<0.002	<0.01	0.38	28.4	1	1.0	93.3	0.55	<0.05	2.08	0.997	0.5
S726659		2.1	16.5	<0.002	<0.01	0.53	32.2	1	0.9	88.7	0.43	<0.05	1.19	0.830	0.3
S726661		14.2	57.9	<0.002	0.01	1.06	25.1	1	1.6	206	0.94	<0.05	6.37	0.617	1.6
S726662		13.0	63.0	<0.002	0.01	0.72	24.5	1	1.5	255	1.11	<0.05	7.81	0.577	1.8
S726663		11.5	57.9	<0.002	0.01	0.60	21.1	1	1.3	271	0.89	<0.05	7.76	0.486	1.4
S726664		15.1	67.7	<0.002	0.01	1.17	19.2	1	1.6	270	1.18	<0.05	9.35	0.556	1.5
S726665		12.0	51.4	<0.002	0.01	0.56	26.0	1	1.2	366	0.79	<0.05	6.25	0.501	1.5
S726666		10.0	54.0	<0.002	0.01	0.71	24.3	1	1.3	302	0.80	<0.05	6.31	0.544	1.4
S726667		11.3	57.1	<0.002	0.01	0.51	19.8	1	1.5	297	1.04	<0.05	7.35	0.596	1.6
S726668		8.3	41.6	<0.002	0.01	0.81	23.9	1	1.4	270	0.85	<0.05	5.76	0.631	1.3
S726669		7.7	37.0	<0.002	<0.01	0.62	27.9	1	1.1	296	0.75	<0.05	4.53	0.551	1.1
S726670		20.0	43.4	<0.002	0.05	0.85	53.4	3	2.6	33.2	1.01	0.10	15.10	0.756	2.7
S726671		9.9	39.2	<0.002	<0.01	0.63	26.0	1	1.5	312	0.99	0.05	5.03	0.700	1.3
S726672		10.1	52.0	<0.002	0.01	0.53	21.8	2	1.6	275	1.20	<0.05	7.34	0.625	1.5
S726673		11.3	57.3	<0.002	0.01	0.45	20.4	1	1.7	282	1.26	<0.05	7.60	0.659	1.7
S726674		12.9	61.4	<0.002	0.01	0.42	17.4	1	1.6	294	1.17	<0.05	9.76	0.596	1.8
S726675		12.6	52.4	<0.002	0.01	0.51	19.4	1	1.6	286	1.01	0.12	7.89	0.534	1.8
S726676		10.3	41.7	0.002	0.01	0.45	21.4	1	1.8	297	1.29	<0.05	7.20	0.750	1.6
S726677		12.5	60.8	<0.002	0.01	0.47	21.6	1	3.7	316	1.36	<0.05	9.54	0.717	1.6
S726678		15.5	75.2	<0.002	0.01	0.30	14.8	1	1.7	281	1.38	<0.05	10.65	0.557	1.8
S726679		10.9	51.8	<0.002	<0.01	0.55	21.0	1	1.6	289	1.24	<0.05	7.16	0.643	1.6
S726680		11.3	60.7	<0.002	0.01	0.99	26.4	1	1.6	233	1.11	<0.05	7.32	0.611	2.1
S726681		13.9	71.3	<0.002	0.01	0.38	15.5	2	1.6	287	1.41	<0.05	10.80	0.548	2.4
S726682		14.6	64.8	<0.002	0.01	0.40	17.7	2	1.8	292	1.93	<0.05	12.15	0.625	3.4
S726683		14.8	76.4	<0.002	0.02	0.48	21.2	2	1.9	249	1.73	<0.05	12.75	0.639	2.7
S726684		11.6	57.6	<0.002	0.01	0.59	22.1	1	1.6	277	1.31	<0.05	8.41	0.626	1.7
S726685		14.1	71.9	<0.002	<0.01	0.38	17.2	1	1.9	272	2.61	<0.05	12.35	0.651	2.4
S726686		10.9	43.0	<0.002	0.01	0.44	19.6	1	1.3	336	0.89	<0.05	7.48	0.507	1.5
S726687		8.4	44.1	<0.002	0.01	0.49	23.8	1	1.3	216	0.90	<0.05	6.28	0.488	1.2
S726688		11.9	55.1	<0.002	0.01	0.43	19.8	1	1.7	295	1.45	<0.05	9.09	0.693	1.9
S726689		12.0	53.8	<0.002	0.01	0.46	20.2	1	1.6	266	1.42	<0.05	7.69	0.602	1.7
S726690		7.0	46.7	<0.002	<0.01	0.09	6.6	1	0.5	385	0.47	<0.05	1.48	0.186	0.4
S726691		11.7	57.2	<0.002	0.01	0.60	21.6	2	1.6	263	1.21	<0.05	8.71	0.570	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S726651		141	0.8	20.3	104	151.5
S726652		157	0.8	19.7	89	143.0
S726653		151	0.9	19.4	76	148.0
S726654		134	1.4	17.9	68	142.5
S726655		166	1.6	20.5	95	149.0
S726656		133	2.0	19.3	84	172.5
S726657		148	1.3	22.5	109	172.0
S726658		199	0.3	24.5	80	89.1
S726659		221	0.4	21.6	85	74.0
S726661		170	1.1	19.0	115	139.0
S726662		157	0.8	20.4	103	139.0
S726663		131	0.6	18.9	86	140.5
S726664		117	0.6	21.3	106	182.5
S726665		162	0.7	18.7	79	140.0
S726666		164	0.9	18.4	87	115.0
S726667		135	0.7	19.8	79	148.5
S726668		160	0.9	20.5	83	119.5
S726669		173	0.7	16.5	86	99.6
S726670		226	1.6	10.5	43	154.5
S726671		182	0.8	20.7	87	135.0
S726672		156	1.0	19.3	86	135.5
S726673		158	0.9	19.9	90	175.0
S726674		132	0.8	20.8	85	182.5
S726675		152	0.8	19.5	110	150.0
S726676		165	0.9	22.2	66	179.5
S726677		151	1.0	21.5	106	151.5
S726678		119	0.7	19.8	101	176.5
S726679		147	0.8	20.5	78	162.5
S726680		192	1.0	23.5	193	128.0
S726681		123	1.3	20.2	105	174.0
S726682		126	0.7	26.9	99	185.0
S726683		162	0.8	27.1	109	173.5
S726684		152	0.8	21.8	102	155.5
S726685		128	0.7	25.0	99	196.0
S726686		122	0.6	19.6	79	187.0
S726687		159	0.7	21.5	103	116.0
S726688		144	0.7	21.2	90	189.5
S726689		137	0.7	20.9	84	172.0
S726690		41	0.2	7.1	20	50.6
S726691		142	0.9	22.4	93	159.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726692		0.96	0.012	0.10	6.51	46.7	400	1.13	0.13	2.70	0.30	63.3	49.6	651	2.09	152.0
S726693		1.25	0.191	0.11	7.18	703	550	1.46	0.16	2.43	0.26	90.8	38.0	333	2.31	119.0
S726694		1.16	0.002	0.05	6.76	6.3	530	1.65	0.10	2.04	0.13	91.0	19.1	177	1.77	36.1
S726695		1.51	0.002	0.01	3.64	2.1	180	0.60	0.04	4.77	0.06	19.05	70.5	1390	2.96	16.9
S726696		0.87	0.002	0.04	6.77	6.5	490	1.50	0.09	2.36	0.09	90.1	23.2	226	1.59	68.5
S726697		0.96	0.003	0.03	7.03	19.7	490	1.62	0.14	1.85	0.33	91.6	28.8	269	2.70	77.5
S726698		0.83	0.004	0.03	6.95	8.2	440	1.16	0.11	2.91	0.17	63.7	40.3	299	1.36	101.5
S726699		0.91	0.003	0.02	6.47	7.6	450	1.26	0.09	2.28	0.07	78.5	24.9	292	1.49	35.2
S726700		1.65	0.014	0.03	7.00	17.3	500	1.42	0.10	2.49	0.11	76.0	27.1	309	1.46	57.1
S726701		1.31	0.014	0.09	6.95	12.2	470	1.33	0.14	2.41	0.16	66.6	36.1	503	2.08	73.2
S726702		1.45	0.003	0.05	6.84	6.2	520	1.81	0.11	1.93	0.17	96.1	22.3	177	1.91	44.0
S726703		1.12	0.010	0.02	7.00	6.6	550	1.66	0.13	1.98	0.19	199.5	22.2	155	1.87	41.1
S726704		1.16	0.002	0.04	6.93	6.1	490	1.64	0.12	2.24	0.16	94.9	26.2	205	1.78	44.7
S726705		0.97	0.001	0.02	6.71	4.5	520	1.71	0.10	1.90	0.16	102.0	21.7	148	1.72	32.6
S726706		1.27	0.004	0.04	6.97	13.3	510	1.81	0.12	1.84	0.10	92.3	25.1	249	2.48	53.8
S726707		0.84	0.002	0.03	7.21	10.4	530	1.57	0.13	1.84	0.11	126.0	24.0	184	2.37	42.8
S726708		0.79	0.022	0.05	6.81	22.8	430	1.07	0.10	2.62	0.13	83.9	33.2	409	1.55	60.3
S726709		0.72	0.001	0.06	6.52	10.5	480	1.52	0.11	2.27	0.13	96.8	19.1	163	1.34	40.9
S726710		1.01	0.005	0.05	6.76	6.8	390	1.00	0.08	2.57	0.17	53.4	31.9	294	1.28	89.3
S726711		0.76	0.002	0.04	7.07	9.6	490	1.46	0.11	2.09	0.11	120.5	21.9	194	1.84	40.7
S726712		1.15	0.003	0.05	6.80	5.5	440	1.24	0.09	2.40	0.14	84.6	27.1	325	1.54	60.7
S726713		1.16	0.010	0.10	6.81	15.5	420	1.10	0.10	2.42	0.40	74.7	31.6	269	1.29	96.8
S726714		0.84	0.005	0.06	7.02	6.9	400	0.85	0.10	2.64	0.16	58.9	34.4	305	1.38	97.1
S726715		0.93	0.003	0.12	7.55	7.8	610	1.52	0.18	1.81	0.21	86.4	26.7	184	2.95	74.3
S726716		1.17	0.004	0.15	6.81	7.0	480	1.18	0.25	2.17	0.34	78.1	33.6	177	1.49	190.0
S726717		1.14	0.002	0.05	7.03	4.3	470	1.20	0.11	2.22	0.15	70.3	24.4	130	1.39	49.1
S726718		0.76	0.002	0.07	7.41	7.0	540	1.36	0.12	2.19	0.22	87.0	25.7	198	1.97	53.5
S726719		1.09	0.003	0.04	6.93	7.6	420	1.15	0.11	2.64	0.16	70.9	28.8	262	1.13	47.2
S726720		1.09	0.002	0.06	7.05	7.2	530	1.57	0.14	2.15	0.15	88.2	25.7	260	1.72	50.8
S726721		1.24	0.003	0.03	7.20	4.7	440	1.01	0.10	2.83	0.16	63.1	30.1	237	1.43	60.7
S726722		0.94	0.026	0.04	6.88	4.9	480	1.93	0.11	2.38	0.15	74.2	27.4	251	2.39	82.2
S726723		1.04	0.007	0.03	6.91	4.5	430	0.96	0.08	2.32	0.13	50.9	29.3	226	1.44	99.4
S726724		0.83	0.005	0.03	6.72	4.6	400	0.88	0.09	2.50	0.10	49.1	26.6	217	1.21	57.4
S726725		0.86	0.005	0.04	6.88	13.9	420	0.94	0.09	2.32	0.12	48.8	25.4	192	1.21	68.0
S726726		0.91	0.004	0.07	7.07	8.8	530	1.45	0.12	1.99	0.13	85.1	24.1	184	1.67	50.0
S726727		1.09	0.006	0.06	6.98	11.1	480	1.30	0.16	1.90	0.13	71.9	26.4	258	1.84	64.4
S727201		1.36	0.006	0.05	6.71	7.1	360	0.85	0.06	3.17	0.13	56.3	28.2	247	0.78	60.7
S727202		2.16	0.010	0.07	7.14	7.0	400	0.97	0.07	2.91	0.19	59.9	32.0	304	1.36	73.3
S727203		2.32	0.007	0.08	7.33	6.0	550	1.48	0.09	1.83	0.14	75.2	18.7	123	2.03	41.4
S727204		1.68	0.002	0.05	7.08	5.2	520	1.25	0.09	1.83	0.10	69.7	19.8	128	1.99	43.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726692		6.50	16.95	0.15	2.9	0.061	1.07	31.3	24.2	4.43	1020	1.17	1.36	16.4	340	1060
S726693		5.63	20.0	0.17	4.6	0.064	1.72	46.3	28.0	2.46	1030	0.79	1.71	36.3	175.0	1380
S726694		4.55	19.20	0.17	4.7	0.051	1.63	48.8	22.9	1.65	678	0.81	2.15	42.1	76.1	1340
S726695		6.59	8.36	0.09	1.2	0.025	0.18	8.7	16.7	12.80	1030	0.09	0.46	3.1	950	860
S726696		4.77	18.40	0.18	4.4	0.061	1.44	46.4	20.4	2.07	777	0.71	2.14	27.4	103.5	1270
S726697		5.27	20.4	0.16	4.8	0.060	1.48	45.1	28.4	2.24	832	1.07	1.85	25.6	127.0	990
S726698		5.72	18.10	0.17	4.0	0.055	1.22	28.8	19.2	2.71	972	0.43	1.93	13.7	132.0	880
S726699		4.64	17.15	0.15	4.5	0.057	1.30	35.7	21.4	2.22	776	0.49	1.93	22.2	126.0	1110
S726700		5.32	18.60	0.18	4.4	0.053	1.38	37.5	22.3	2.56	898	0.61	1.87	30.2	138.5	1220
S726701		5.66	17.70	0.15	3.5	0.049	1.36	34.0	24.5	3.69	803	0.61	1.68	14.7	259	760
S726702		4.98	19.75	0.19	4.9	0.055	1.54	49.7	25.1	1.73	800	0.99	2.03	32.3	83.4	1250
S726703		5.05	20.9	0.24	5.0	0.077	1.65	83.0	26.2	1.65	949	1.07	2.14	48.3	74.5	1430
S726704		5.15	19.80	0.18	4.5	0.058	1.54	45.8	24.4	1.99	862	0.76	2.06	37.2	99.1	1330
S726705		4.72	19.55	0.20	5.4	0.060	1.58	48.6	24.1	1.49	788	0.91	2.04	44.2	65.4	1290
S726706		6.06	19.90	0.16	4.5	0.067	1.63	46.7	27.3	2.06	1160	0.82	1.86	27.0	117.0	1170
S726707		5.49	19.75	0.14	5.3	0.069	1.67	56.2	23.7	1.84	894	0.71	2.07	30.3	85.6	1130
S726708		5.42	17.90	0.13	4.5	0.065	1.22	36.2	22.2	2.69	1000	0.56	1.98	37.3	203	1160
S726709		4.29	17.60	0.17	4.6	0.054	1.39	50.9	18.1	1.54	749	0.62	2.21	32.2	75.3	1480
S726710		5.80	16.40	0.12	3.0	0.059	1.11	24.5	17.7	2.69	1080	0.37	1.70	12.4	128.5	770
S726711		4.91	19.50	0.13	5.2	0.062	1.38	41.8	22.4	1.69	870	0.69	2.27	37.8	84.6	1060
S726712		4.88	17.50	0.14	4.0	0.067	1.26	33.4	23.0	2.31	881	0.56	2.04	31.0	157.0	1110
S726713		6.02	17.55	0.13	3.9	0.071	1.24	34.5	17.9	2.29	974	0.91	1.97	23.0	136.5	1110
S726714		6.11	17.15	0.10	3.3	0.060	1.17	26.8	18.9	2.80	1140	0.45	1.75	15.1	135.5	820
S726715		5.14	20.0	0.14	4.3	0.057	1.93	47.6	27.9	1.87	806	0.62	1.90	16.2	96.0	1090
S726716		5.95	17.10	0.13	4.2	0.067	1.42	37.3	16.6	1.62	1000	0.94	2.02	16.0	104.5	1160
S726717		5.39	18.40	0.12	4.4	0.060	1.39	35.2	16.8	1.71	916	0.39	2.02	16.1	64.9	990
S726718		5.62	18.90	0.14	4.2	0.064	1.66	41.4	23.9	2.09	959	0.61	2.05	29.1	101.5	1120
S726719		5.44	18.00	0.14	3.9	0.063	1.19	32.6	17.9	2.72	887	0.46	2.17	21.2	141.0	1000
S726720		5.19	18.80	0.16	4.6	0.065	1.55	43.4	20.6	2.42	868	0.53	2.05	32.5	136.5	1060
S726721		5.68	17.40	0.13	3.4	0.068	1.26	28.8	17.3	2.57	1020	0.42	2.14	19.9	113.5	950
S726722		5.64	16.90	0.15	4.4	0.055	1.36	35.8	19.0	2.54	1100	0.42	1.88	18.0	102.5	1020
S726723		6.50	16.00	0.09	2.8	0.061	1.17	22.5	20.0	2.68	1060	0.44	1.79	16.7	91.5	920
S726724		5.91	14.50	0.10	2.7	0.053	1.09	23.2	15.1	2.71	964	0.40	1.84	12.8	109.5	930
S726725		5.58	15.30	0.10	3.1	0.059	1.25	23.1	15.7	2.15	894	0.33	1.96	13.1	73.3	910
S726726		4.92	18.35	0.12	4.4	0.058	1.55	40.4	21.3	1.96	898	0.57	2.04	21.0	92.2	1050
S726727		5.37	18.85	0.12	4.8	0.061	1.35	36.4	21.7	2.40	821	0.58	1.80	22.4	123.0	920
S727201		5.56	16.50	0.11	3.8	0.058	1.03	26.0	12.8	2.49	935	0.41	2.02	14.2	114.0	930
S727202		6.01	17.55	0.10	3.6	0.061	1.18	27.6	16.5	2.89	828	0.50	1.88	14.1	155.5	930
S727203		4.73	18.80	0.12	4.3	0.051	1.92	37.2	23.3	1.44	702	1.08	1.98	13.9	50.0	850
S727204		4.86	18.35	0.12	4.1	0.058	1.70	33.4	23.8	1.48	818	0.96	1.92	13.9	53.6	1030



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726692		9.1	49.6	<0.002	0.01	0.93	24.2	1	1.3	207	0.93	<0.05	6.66	0.516	1.9
S726693		13.7	77.7	<0.002	0.01	1.00	18.8	2	1.7	260	1.13	0.05	11.35	0.559	2.4
S726694		12.6	68.1	<0.002	<0.01	0.33	16.1	1	1.8	276	1.55	<0.05	9.89	0.631	2.4
S726695		2.0	16.7	<0.002	<0.01	0.39	22.6	1	0.5	206	0.18	<0.05	1.57	0.279	0.3
S726696		11.3	58.0	<0.002	0.01	0.40	18.0	1	1.6	289	1.41	<0.05	8.16	0.610	2.1
S726697		14.6	73.6	<0.002	0.02	0.41	18.3	2	1.7	247	1.39	<0.05	11.20	0.542	2.6
S726698		8.5	47.6	<0.002	0.01	0.65	23.9	1	1.4	289	0.82	<0.05	5.63	0.537	1.3
S726699		10.5	51.3	<0.002	0.01	0.43	18.0	1	1.5	271	1.08	<0.05	7.16	0.571	1.5
S726700		9.9	56.3	<0.002	0.01	0.43	19.5	1	1.4	289	1.23	<0.05	8.33	0.601	1.8
S726701		10.1	57.6	<0.002	<0.01	0.76	22.7	2	1.4	240	0.83	<0.05	7.12	0.518	1.7
S726702		13.3	69.7	<0.002	0.01	0.50	17.3	1	1.8	248	1.52	<0.05	15.55	0.588	2.2
S726703		13.3	73.5	<0.002	0.01	0.37	17.7	2	2.4	266	1.60	<0.05	12.10	0.616	2.2
S726704		12.7	64.7	<0.002	<0.01	0.51	18.8	2	1.7	266	1.58	<0.05	9.59	0.625	2.0
S726705		13.4	65.8	<0.002	0.01	0.34	15.9	1	1.8	248	1.97	<0.05	9.88	0.643	2.6
S726706		11.6	78.9	<0.002	0.01	0.46	17.4	1	1.8	224	1.30	<0.05	9.41	0.599	1.9
S726707		14.1	75.7	0.003	0.01	0.51	17.1	1	1.9	250	1.33	0.05	9.75	0.631	1.9
S726708		12.8	48.0	<0.002	0.01	0.53	19.5	1	1.5	261	1.45	<0.05	7.74	0.604	1.6
S726709		12.4	54.1	0.003	0.01	0.53	15.6	1	1.6	308	1.39	<0.05	7.85	0.648	2.0
S726710		8.3	30.3	0.002	<0.01	0.81	24.8	1	1.3	240	0.73	<0.05	4.47	0.537	1.3
S726711		14.2	52.2	0.002	0.02	0.37	16.6	1	1.8	284	1.66	<0.05	9.54	0.643	1.9
S726712		11.6	46.8	0.003	0.02	0.51	17.6	1	1.5	279	1.38	<0.05	7.00	0.595	1.6
S726713		11.3	41.2	0.003	0.01	0.89	22.5	1	1.5	261	1.47	0.09	6.57	0.634	2.1
S726714		8.9	31.5	0.002	<0.01	0.87	25.6	1	1.4	249	0.80	0.05	4.71	0.567	1.4
S726715		16.8	76.1	0.003	0.01	0.80	17.0	1	1.6	282	0.90	0.08	11.15	0.429	1.8
S726716		12.7	49.2	<0.002	0.02	0.82	18.8	1	1.5	293	0.87	0.16	7.31	0.521	1.8
S726717		10.6	45.2	<0.002	0.01	0.49	20.0	1	1.4	298	0.92	<0.05	7.35	0.631	1.3
S726718		12.5	62.8	0.002	0.01	0.62	19.5	1	1.7	276	1.40	<0.05	9.01	0.597	1.6
S726719		9.4	40.0	0.002	<0.01	0.94	24.7	1	1.6	284	1.05	<0.05	6.18	0.705	1.4
S726720		14.1	51.9	0.003	<0.01	0.68	19.3	1	1.7	295	1.24	0.05	9.85	0.577	1.6
S726721		9.0	42.2	0.002	<0.01	0.71	25.5	1	1.5	293	1.04	<0.05	5.79	0.711	1.3
S726722		10.8	50.5	0.002	0.01	0.53	23.2	1	1.3	282	0.93	<0.05	6.99	0.574	1.5
S726723		8.7	31.3	<0.002	0.01	0.63	26.1	1	1.2	305	0.85	<0.05	4.13	0.557	1.1
S726724		7.1	37.8	<0.002	<0.01	0.67	24.9	1	1.1	288	0.69	<0.05	3.83	0.594	1.0
S726725		8.3	29.9	0.002	<0.01	0.69	24.6	1	1.1	334	0.69	<0.05	4.08	0.508	1.0
S726726		13.5	52.2	<0.002	0.01	0.65	16.2	1	1.6	290	1.06	0.05	8.73	0.537	1.4
S726727		12.0	52.8	<0.002	0.01	0.78	19.3	1	1.6	244	1.07	0.09	7.99	0.557	1.6
S727201		6.9	28.2	<0.002	<0.01	0.81	21.9	1	1.4	269	0.93	<0.05	4.69	0.737	1.0
S727202		7.9	41.0	<0.002	0.01	0.76	21.3	1	1.4	239	0.88	<0.05	5.45	0.700	1.2
S727203		12.5	68.7	0.002	0.01	0.50	15.8	1	1.5	231	0.89	0.07	7.98	0.558	1.8
S727204		12.8	66.2	0.002	0.01	0.45	15.4	1	1.5	235	0.93	<0.05	8.38	0.544	2.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S726692		170	1.5	21.1	125	114.5
S726693		132	1.5	23.9	113	183.5
S726694		119	0.6	20.8	88	174.5
S726695		146	0.1	9.5	54	44.6
S726696		128	0.7	20.4	78	166.0
S726697		131	0.8	18.6	521	174.5
S726698		160	1.1	19.7	113	142.0
S726699		125	0.7	16.9	74	167.0
S726700		141	0.9	21.9	80	171.5
S726701		153	1.0	20.4	101	127.0
S726702		129	0.8	22.1	105	184.0
S726703		127	0.8	24.5	101	185.0
S726704		138	0.8	22.3	95	176.5
S726705		121	0.7	18.9	98	203
S726706		135	0.8	19.7	99	173.5
S726707		135	0.8	20.8	94	196.0
S726708		137	0.7	19.4	89	168.0
S726709		114	0.6	21.4	77	177.5
S726710		170	1.0	20.3	96	112.5
S726711		122	0.6	20.4	83	196.0
S726712		128	0.6	19.1	80	151.0
S726713		157	0.9	22.5	165	147.0
S726714		178	1.3	21.6	99	119.0
S726715		125	0.9	21.5	112	156.5
S726716		132	0.9	21.2	113	154.5
S726717		186	0.6	20.4	80	156.0
S726718		142	0.8	21.8	99	153.0
S726719		161	0.9	21.3	84	145.0
S726720		136	0.8	21.0	90	172.5
S726721		180	0.8	21.7	92	126.0
S726722		167	0.8	22.1	87	168.0
S726723		187	1.0	16.1	99	104.0
S726724		180	0.9	17.6	89	90.9
S726725		168	0.7	17.1	82	114.5
S726726		123	0.6	20.0	91	162.5
S726727		140	1.3	19.4	95	178.5
S727201		171	0.7	20.9	80	139.0
S727202		173	0.7	20.7	97	133.0
S727203		124	0.6	17.2	89	168.0
S727204		124	0.6	16.3	86	152.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727205		2.05	0.004	0.04	7.09	5.2	500	1.22	0.09	2.09	0.15	73.7	20.8	160	1.57	48.1
S727206		2.42	0.002	0.08	7.26	7.6	570	1.45	0.12	1.72	0.18	77.9	19.8	124	2.34	53.9
S727207		2.14	0.011	0.09	7.49	11.8	510	1.42	0.12	1.56	0.19	68.7	23.1	172	2.08	64.8
S727208		1.93	0.024	0.05	7.02	14.0	470	1.18	0.10	1.94	0.14	83.9	24.3	201	1.57	45.3
S727209		1.59	0.017	0.08	7.30	15.1	470	1.20	0.12	1.70	0.13	58.5	23.7	221	2.07	64.2
S727210		2.19	0.009	0.08	7.74	19.0	460	1.31	0.13	1.66	0.19	71.8	34.5	284	1.83	79.0
S727211		1.30	0.011	0.10	8.18	22.6	490	1.32	0.17	1.85	0.15	60.7	31.0	276	2.31	92.5
S727212		1.74	0.009	0.11	7.93	21.6	490	1.45	0.16	1.72	0.16	65.0	32.3	252	2.23	89.5
S727213		1.70	0.011	0.11	8.32	24.3	510	1.29	0.21	1.80	0.19	61.9	32.1	281	2.72	107.5
S727214		2.16	0.006	0.09	7.68	15.7	550	1.44	0.15	1.75	0.22	76.5	26.8	177	2.36	68.5
S727215		2.19	0.007	0.08	7.73	11.2	560	1.42	0.14	1.64	0.12	73.0	21.6	167	2.23	56.0
S727216		1.98	0.046	0.09	7.67	23.1	510	1.54	0.20	1.80	0.44	68.3	26.5	198	1.79	61.5
S727217		2.24	0.029	0.05	7.50	10.7	520	1.62	0.11	1.82	0.14	70.4	21.6	154	1.78	47.1
S727218		2.26	0.006	0.08	7.80	11.2	570	1.80	0.12	1.60	0.22	74.2	25.4	157	2.55	57.9
S727219		2.65	0.024	0.05	7.32	14.4	540	1.58	0.10	1.74	0.15	76.3	20.2	111	2.05	41.1
S727220		<0.02	0.026	0.13	8.51	15.3	190	0.91	0.34	0.20	0.02	39.0	32.9	555	4.09	381
S727221		2.36	0.014	0.04	7.46	9.9	500	1.49	0.10	1.78	0.12	72.7	22.9	139	1.66	47.8
S727222		2.50	0.008	0.04	7.49	10.8	540	1.59	0.09	1.63	0.17	69.0	23.6	142	2.18	55.7
S727223		2.32	0.017	0.07	8.09	17.4	500	1.66	0.15	1.73	0.19	72.7	34.1	197	2.31	76.5
S727224		1.90	0.086	0.04	7.76	12.6	510	1.70	0.14	1.59	0.12	59.9	24.0	175	2.40	56.7
S727225		2.48	0.017	0.03	7.15	11.9	470	1.51	0.09	1.74	0.12	68.4	22.8	143	1.53	47.0
S727226		2.10	0.025	0.04	7.41	10.0	510	2.05	0.09	1.73	0.12	71.9	20.8	131	1.68	43.6
S727227		2.23	0.018	0.02	6.98	9.7	450	1.40	0.07	1.81	0.14	74.3	21.0	147	1.35	42.4
S727228		1.72	0.025	0.06	7.22	9.3	470	1.38	0.08	2.22	0.13	76.1	22.1	186	1.19	40.1
S727229		2.09	0.010	0.04	7.74	12.3	530	1.66	0.11	1.65	0.13	73.7	20.4	166	2.14	59.0
S727230		2.00	0.008	0.04	7.66	9.8	540	1.65	0.09	1.70	0.14	81.5	20.0	141	1.97	49.6
S727231		2.72	0.011	0.05	7.22	10.0	500	1.52	0.09	1.94	0.20	68.4	22.1	145	1.67	44.2
S727232		2.13	0.012	0.03	7.64	8.4	510	1.63	0.08	2.07	0.11	74.3	22.2	144	1.78	46.8
S727233		2.14	0.029	0.02	7.28	8.1	480	1.51	0.07	1.99	0.12	73.6	19.1	143	1.48	35.2
S727234		2.38	0.018	0.03	7.38	10.9	480	1.41	0.08	2.00	0.10	61.6	21.4	160	1.54	44.2
S727235		1.86	0.004	0.06	7.81	9.6	470	1.65	0.09	2.42	0.28	73.5	36.0	182	1.77	74.4
S727236		1.69	0.004	0.07	7.93	6.9	520	1.72	0.09	2.23	0.23	82.6	32.9	174	2.02	67.9
S727237		2.04	0.015	0.09	7.71	25.4	500	1.71	0.12	2.03	0.28	69.2	32.6	200	2.24	84.3
S727238		2.21	0.008	0.05	7.91	9.7	500	1.55	0.10	2.54	0.24	71.6	35.2	185	1.82	72.1
S727239		2.26	0.011	0.07	7.86	14.7	530	1.72	0.14	1.95	0.17	71.0	29.7	187	2.45	76.7
S727240		0.13	0.001	0.02	6.48	0.6	410	1.10	0.04	1.90	0.03	20.7	5.6	35	0.78	6.9
S727241		1.63	0.008	0.08	8.29	19.8	530	1.81	0.14	2.08	0.28	70.8	40.7	230	2.42	90.5
S727242		1.78	0.011	0.05	7.73	6.6	540	1.71	0.09	2.32	0.17	69.9	23.6	155	1.98	49.3
S727243		1.86	0.004	0.08	8.16	13.2	580	1.89	0.12	2.10	0.27	81.2	32.5	201	2.65	72.7
S727244		2.18	0.005	0.08	7.62	12.5	580	1.69	0.11	1.69	0.13	77.1	17.6	119	2.68	64.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
S727205		4.80	18.40	0.11	4.7	0.051	1.60	35.9	21.0	1.49	804	0.78	2.03	15.9	58.4	910
S727206		4.89	19.25	0.13	4.7	0.060	1.95	41.4	26.6	1.44	717	1.31	1.96	14.5	54.9	930
S727207		5.46	19.35	0.13	4.3	0.064	1.74	33.9	23.4	1.70	996	1.05	1.82	12.7	74.7	880
S727208		5.38	18.40	0.13	5.0	0.065	1.46	38.4	18.9	1.73	1040	0.58	1.93	16.3	76.4	960
S727209		5.74	18.35	0.11	4.0	0.063	1.57	31.7	22.6	1.99	752	0.99	1.66	13.4	83.3	850
S727210		6.37	19.45	0.09	4.2	0.064	1.47	32.4	20.7	2.35	1300	0.79	1.74	14.1	122.0	920
S727211		6.95	20.6	0.10	4.0	0.072	1.60	32.0	23.2	2.45	972	0.85	1.61	12.7	109.5	820
S727212		6.54	20.4	0.12	4.2	0.068	1.65	32.4	23.2	2.32	1110	0.91	1.61	13.2	105.0	840
S727213		7.10	21.5	0.12	4.4	0.083	1.66	32.3	25.0	2.42	931	0.85	1.52	12.3	116.0	850
S727214		5.84	19.85	0.13	4.3	0.062	1.91	37.1	25.3	1.82	1000	1.20	1.75	13.7	72.8	980
S727215		5.38	20.0	0.11	4.6	0.069	1.93	36.7	26.3	1.72	723	1.33	1.85	13.9	64.0	780
S727216		5.84	20.3	0.15	4.5	0.073	1.72	33.2	21.9	1.93	971	1.55	1.79	14.0	81.8	940
S727217		5.08	20.2	0.13	4.9	0.067	1.72	35.8	23.5	1.63	776	0.96	2.00	15.1	62.6	900
S727218		5.52	22.0	0.16	4.9	0.071	2.04	39.5	29.2	1.75	855	1.33	1.80	15.3	69.7	920
S727219		4.71	19.65	0.16	4.7	0.063	1.90	38.2	25.0	1.37	646	1.24	1.99	14.8	48.3	900
S727220		14.85	23.5	0.11	4.5	0.105	0.44	18.3	24.6	0.23	487	2.62	0.10	15.4	238	430
S727221		5.37	19.55	0.14	4.9	0.067	1.64	36.0	21.5	1.59	949	0.89	1.96	15.6	57.2	930
S727222		5.38	20.5	0.14	4.8	0.072	1.80	34.5	26.0	1.60	857	1.20	1.84	15.7	59.6	760
S727223		6.50	21.9	0.13	4.7	0.075	1.70	34.4	25.2	2.02	1160	0.82	1.75	15.4	91.0	930
S727224		5.82	21.1	0.13	4.8	0.076	1.68	29.6	25.4	1.76	897	0.87	1.74	14.3	70.5	840
S727225		5.10	19.60	0.12	4.5	0.067	1.55	32.7	20.7	1.62	894	0.78	1.94	14.4	55.2	770
S727226		5.01	20.1	0.15	4.6	0.066	1.69	34.5	22.1	1.55	812	0.80	2.05	16.5	49.8	830
S727227		4.93	19.05	0.14	4.7	0.061	1.46	36.0	18.9	1.45	845	0.55	2.05	17.6	50.1	910
S727228		5.19	18.90	0.15	5.2	0.071	1.48	35.6	18.2	1.65	910	0.55	2.17	18.3	52.6	940
S727229		5.46	20.9	0.15	5.3	0.074	1.77	38.1	24.7	1.62	681	1.15	1.93	16.4	53.7	690
S727230		5.03	20.9	0.15	5.9	0.069	1.86	40.7	24.6	1.52	760	0.94	2.04	15.7	50.3	810
S727231		5.03	19.70	0.12	4.5	0.069	1.62	33.0	22.1	1.62	914	0.94	2.04	15.2	52.8	950
S727232		5.45	20.5	0.16	5.1	0.076	1.69	36.6	23.3	1.77	878	0.81	2.14	16.3	53.8	960
S727233		4.78	19.55	0.14	5.2	0.073	1.57	35.7	19.9	1.49	686	0.60	2.14	17.8	47.0	870
S727234		5.30	19.70	0.15	4.8	0.069	1.50	31.2	21.1	1.72	870	0.66	2.07	15.2	55.7	820
S727235		6.55	21.3	0.12	4.3	0.075	1.45	33.4	22.9	1.97	1240	0.78	1.95	18.6	81.3	1070
S727236		6.29	21.4	0.13	4.8	0.076	1.59	38.1	24.9	1.86	1090	0.83	2.01	19.7	74.3	1090
S727237		6.34	21.3	0.15	4.7	0.075	1.65	35.5	25.4	2.01	1000	1.18	1.77	16.8	92.2	940
S727238		6.39	21.5	0.13	4.2	0.074	1.54	33.0	23.6	2.04	1180	0.84	2.02	17.1	84.1	1050
S727239		6.23	21.2	0.14	4.6	0.072	1.66	35.7	26.7	1.86	891	1.07	1.79	16.5	78.8	840
S727240		1.43	14.90	0.10	1.4	0.026	1.31	9.2	7.7	0.53	267	0.11	2.86	3.4	19.8	240
S727241		6.98	22.6	0.14	4.5	0.080	1.73	32.6	27.9	2.35	1270	0.88	1.84	15.0	107.5	950
S727242		5.49	20.6	0.15	4.8	0.078	1.79	34.9	23.9	1.72	850	1.02	2.07	16.8	63.2	970
S727243		6.27	22.7	0.13	5.4	0.085	1.98	40.4	29.2	2.13	1060	1.43	1.95	17.8	101.0	1060
S727244		6.03	21.4	0.14	5.0	0.067	2.00	31.9	26.8	1.50	592	2.97	1.94	16.5	47.0	1020



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727205		11.2	55.0	<0.002	0.01	0.52	17.7	1	1.5	259	1.04	<0.05	8.25	0.610	1.7
S727206		14.7	78.0	<0.002	0.01	0.54	16.0	1	1.5	233	0.96	<0.05	10.60	0.523	2.5
S727207		12.0	67.5	0.002	0.01	1.00	19.2	1	1.5	205	0.84	0.05	8.03	0.533	1.6
S727208		11.4	56.6	<0.002	0.01	1.18	20.6	1	1.7	238	1.05	<0.05	7.65	0.647	1.6
S727209		10.7	62.9	0.002	0.01	1.21	20.2	1	1.6	187.0	0.85	<0.05	7.72	0.555	2.0
S727210		10.8	57.4	<0.002	0.01	1.40	23.1	1	1.7	191.5	0.94	<0.05	6.95	0.629	1.3
S727211		11.3	67.6	0.004	0.02	1.55	24.7	1	1.7	181.0	0.85	<0.05	7.85	0.600	1.7
S727212		12.8	69.4	0.002	0.01	1.48	23.9	<1	1.7	181.0	0.84	<0.05	8.26	0.568	1.9
S727213		12.3	77.1	0.002	0.03	1.73	27.6	2	1.9	174.5	0.87	<0.05	8.45	0.594	2.5
S727214		15.0	76.7	<0.002	0.01	1.00	19.7	1	1.6	200	0.92	0.05	9.46	0.554	2.1
S727215		13.1	72.3	<0.002	0.01	0.88	18.7	1	1.6	208	0.93	0.06	9.34	0.575	2.3
S727216		17.2	64.6	<0.002	0.01	1.07	21.0	1	1.7	202	0.94	<0.05	8.68	0.575	2.0
S727217		13.0	62.5	<0.002	0.01	0.81	20.3	1	1.5	229	0.98	<0.05	8.41	0.590	2.0
S727218		15.6	83.6	<0.002	0.01	0.81	20.6	2	1.6	199.0	0.96	<0.05	10.00	0.540	2.4
S727219		14.7	72.1	<0.002	<0.01	0.64	17.5	1	1.4	227	0.99	<0.05	10.00	0.541	2.3
S727220		21.8	45.7	<0.002	0.05	0.92	58.7	3	2.8	33.8	1.18	0.10	15.80	0.790	2.9
S727221		11.6	60.5	<0.002	0.01	0.89	20.8	2	1.6	215	1.07	<0.05	7.49	0.648	1.9
S727222		13.4	70.2	<0.002	0.01	0.88	20.0	1	1.6	203	1.02	<0.05	8.37	0.568	2.1
S727223		13.1	70.7	<0.002	0.01	1.26	26.2	2	1.7	182.0	1.05	<0.05	8.35	0.629	2.6
S727224		12.3	74.0	<0.002	0.02	0.96	22.0	1	1.8	190.5	0.99	<0.05	8.68	0.578	2.3
S727225		11.1	54.9	<0.002	0.01	0.77	20.3	1	1.6	205	0.99	<0.05	6.86	0.579	1.8
S727226		11.3	59.9	<0.002	0.01	0.73	20.1	1	1.5	218	1.07	<0.05	7.21	0.592	1.8
S727227		10.7	52.5	<0.002	<0.01	0.71	19.5	2	1.5	227	1.13	<0.05	7.17	0.633	1.8
S727228		11.0	50.4	<0.002	<0.01	0.80	21.4	1	1.5	252	1.17	<0.05	7.18	0.692	1.8
S727229		13.3	70.7	<0.002	0.01	0.76	20.9	1	1.6	218	1.08	<0.05	9.93	0.624	2.4
S727230		12.8	69.7	<0.002	0.01	0.62	19.9	2	1.6	232	1.04	<0.05	9.09	0.573	2.3
S727231		12.2	59.7	<0.002	0.01	0.66	20.1	1	1.5	232	0.97	<0.05	7.86	0.571	2.0
S727232		11.5	62.5	<0.002	0.01	0.69	21.5	1	1.8	241	1.12	<0.05	7.61	0.658	2.0
S727233		11.2	57.5	<0.002	0.01	0.71	20.6	1	1.5	242	1.17	<0.05	7.56	0.660	1.9
S727234		10.2	56.9	<0.002	0.01	0.77	22.1	2	1.5	231	1.02	<0.05	6.86	0.623	1.8
S727235		11.2	52.4	<0.002	0.01	0.84	25.2	1	1.6	235	1.14	<0.05	7.20	0.700	1.4
S727236		13.2	62.4	<0.002	0.01	0.75	22.7	1	1.6	241	1.20	<0.05	8.32	0.696	2.1
S727237		14.0	70.1	<0.002	0.01	1.13	24.9	2	1.6	204	1.06	<0.05	8.70	0.633	2.0
S727238		12.0	56.0	<0.002	0.01	0.82	24.9	1	1.6	254	1.06	<0.05	7.92	0.678	1.6
S727239		13.8	68.5	<0.002	0.01	1.01	24.8	2	1.7	208	1.05	<0.05	9.16	0.609	2.3
S727240		7.2	48.9	<0.002	<0.01	0.11	6.1	<1	0.5	392	0.27	<0.05	1.41	0.160	0.4
S727241		14.5	63.1	<0.002	0.01	1.51	28.5	1	1.8	206	1.02	<0.05	8.33	0.616	1.8
S727242		12.9	67.3	<0.002	0.01	0.62	20.8	1	1.5	246	1.09	<0.05	9.01	0.645	1.9
S727243		15.8	79.8	<0.002	0.01	0.92	22.6	2	1.7	222	1.13	0.06	10.40	0.637	2.1
S727244		16.2	84.8	<0.002	0.06	0.71	18.2	2	1.6	219	1.01	0.30	11.50	0.570	3.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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S727205		134	0.6	19.4	82	174.0
S727206		122	0.6	19.4	103	168.5
S727207		140	0.9	17.8	102	165.5
S727208		135	1.0	25.6	87	178.5
S727209		152	0.9	18.3	104	149.0
S727210		170	1.0	18.7	102	157.5
S727211		184	1.1	20.0	117	152.0
S727212		172	1.1	19.9	115	157.0
S727213		189	1.2	21.3	126	158.5
S727214		145	0.9	21.1	113	160.0
S727215		143	0.9	19.1	103	163.0
S727216		149	1.0	22.0	166	163.5
S727217		136	0.9	20.8	94	170.0
S727218		138	1.1	23.6	116	182.0
S727219		122	0.8	20.8	93	168.0
S727220		237	1.7	11.1	45	166.5
S727221		140	1.2	23.6	93	180.5
S727222		137	1.1	21.3	102	169.5
S727223		163	1.4	27.2	118	161.5
S727224		149	1.1	20.8	108	162.5
S727225		129	1.2	22.8	86	160.0
S727226		131	1.1	23.3	89	163.0
S727227		128	1.0	24.3	80	171.0
S727228		139	1.1	24.5	80	188.0
S727229		142	1.0	22.4	98	190.5
S727230		128	0.9	23.0	94	188.5
S727231		131	1.0	22.0	93	161.0
S727232		140	1.2	24.9	100	181.0
S727233		131	1.4	25.4	85	183.0
S727234		142	1.1	24.1	85	165.5
S727235		175	0.7	22.7	111	152.0
S727236		164	0.7	23.0	112	171.5
S727237		166	0.9	22.7	126	168.0
S727238		173	0.7	22.1	108	151.5
S727239		164	0.9	22.0	115	158.0
S727240		38	0.1	7.0	21	47.8
S727241		186	1.1	22.2	127	157.5
S727242		151	0.7	21.1	102	169.0
S727243		160	0.9	23.1	122	180.0
S727244		137	0.6	18.1	101	176.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16124060

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727245		1.73	0.003	0.07	7.47	8.2	560	1.68	0.10	1.71	0.18	74.5	22.8	161	2.45	54.3
S727246		1.52	0.006	0.09	7.81	19.6	510	1.65	0.13	1.87	0.25	72.1	35.2	254	2.27	77.9
S727247		1.64	0.007	0.07	7.61	16.3	480	1.58	0.12	1.78	0.21	75.3	34.5	249	2.03	69.0
S727248		1.78	0.014	0.07	7.99	16.7	500	1.66	0.13	1.76	0.19	67.6	31.8	223	2.19	74.9
S727249		1.56	0.009	0.07	7.92	18.5	500	1.69	0.13	1.88	0.22	74.3	33.7	235	2.19	74.8
S727250		1.79	0.007	0.08	8.17	20.1	500	1.75	0.14	1.85	0.26	75.6	37.2	224	2.34	84.1
S727251		1.54	0.012	0.03	7.53	15.8	470	1.47	0.12	1.93	0.20	75.4	29.3	213	1.90	53.6
S727252		0.94	0.013	0.15	7.70	14.7	490	1.45	0.12	1.98	0.23	77.2	34.0	202	1.90	55.1
S727253		1.48	0.014	0.06	7.64	12.6	500	1.40	0.12	1.77	0.15	63.2	23.2	212	2.15	52.0
S727254		1.36	0.007	0.05	7.60	12.8	490	1.49	0.13	1.70	0.13	67.2	25.7	219	2.24	50.6
S727255		1.09	0.014	0.08	7.81	15.5	480	1.59	0.15	1.80	0.13	62.1	23.5	229	2.18	64.0
S727256		1.20	0.014	0.07	7.75	16.9	470	1.43	0.12	1.94	0.18	69.0	28.3	226	1.88	59.5
S727257		1.33	0.021	0.06	7.38	17.6	460	1.41	0.11	1.76	0.12	65.7	28.2	214	1.79	55.9
S727258		1.50	0.022	0.04	7.30	12.3	460	1.43	0.11	1.83	0.13	66.2	23.9	196	1.69	47.6
S727259		1.52	0.011	0.04	7.32	10.1	500	1.47	0.10	1.83	0.16	73.7	24.9	153	1.73	45.8
S727260		0.98	0.012	0.06	7.69	15.4	480	1.41	0.12	1.95	0.22	75.4	34.2	214	1.91	57.4
S727261		1.39	0.037	0.06	7.50	8.6	570	1.61	0.12	1.70	0.18	74.3	19.4	125	2.21	48.5
S727262		1.36	0.005	0.04	7.70	16.2	560	1.63	0.11	1.61	0.14	72.3	23.7	151	2.24	48.8
S727263		1.43	0.065	0.10	7.74	16.3	560	1.58	0.12	1.74	0.18	71.1	23.3	177	2.28	53.1
S727264		1.22	0.009	0.04	7.56	12.5	500	1.43	0.11	1.88	0.13	72.5	24.1	182	1.83	48.3
S727265		1.10	0.013	0.05	7.93	17.3	500	1.53	0.12	1.94	0.20	68.7	32.4	213	2.00	78.2
S727266		1.20	0.017	0.06	7.72	17.0	490	1.47	0.12	1.96	0.20	64.8	31.0	214	2.01	62.5
S727267		1.16	0.011	0.06	7.85	18.7	480	1.49	0.11	1.90	0.22	65.6	34.0	240	1.95	64.6
S727268		1.32	0.022	0.02	6.94	8.0	430	1.35	0.08	2.30	0.14	67.2	22.0	174	1.22	33.2
S727269		1.47	0.010	0.08	7.23	7.5	470	1.27	0.08	2.20	0.10	58.2	24.6	191	1.55	41.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16124060

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727245		5.29	20.7	0.15	5.3	0.071	1.91	39.0	26.9	1.67	764	1.37	1.85	16.0	72.1	910
S727246		6.25	20.9	0.14	4.5	0.073	1.74	35.0	25.1	2.34	1190	0.89	1.71	14.0	128.0	900
S727247		5.96	20.6	0.16	4.9	0.077	1.60	35.5	23.7	2.14	1160	0.80	1.78	15.8	127.5	890
S727248		6.38	21.6	0.12	4.9	0.077	1.64	34.7	24.8	2.08	1000	0.77	1.81	16.3	94.8	930
S727249		6.26	21.3	0.14	4.8	0.077	1.65	36.6	24.9	2.06	1140	0.87	1.82	15.8	98.9	960
S727250		6.64	22.3	0.15	4.6	0.079	1.67	36.8	26.0	2.20	1220	0.82	1.79	15.8	107.0	970
S727251		5.79	20.7	0.14	5.1	0.082	1.50	36.2	21.6	1.83	1110	0.68	1.89	17.7	78.0	870
S727252		6.10	20.8	0.14	4.2	0.075	1.59	34.0	22.4	1.97	1360	0.83	1.88	15.7	87.7	930
S727253		5.79	20.3	0.14	4.5	0.077	1.65	33.1	23.9	1.88	818	0.73	1.81	15.1	76.4	790
S727254		5.70	20.4	0.16	4.8	0.078	1.59	34.0	24.5	1.87	955	0.80	1.84	16.2	81.0	740
S727255		6.16	20.9	0.14	4.2	0.076	1.57	32.1	24.6	2.04	698	0.67	1.77	14.3	87.8	700
S727256		6.18	20.6	0.15	4.6	0.077	1.56	34.1	23.1	2.01	1100	0.73	1.91	15.3	84.6	900
S727257		5.91	19.70	0.14	4.1	0.074	1.52	31.8	22.0	1.95	1080	0.76	1.79	14.4	82.4	890
S727258		5.53	19.70	0.15	4.5	0.076	1.47	32.6	21.1	1.80	896	0.67	1.90	15.8	73.1	770
S727259		5.13	19.60	0.15	4.4	0.071	1.72	35.4	21.4	1.61	978	0.85	1.99	15.5	60.8	870
S727260		6.15	20.5	0.14	4.6	0.077	1.57	33.1	22.3	1.99	1370	0.82	1.81	15.6	88.1	940
S727261		5.08	20.9	0.16	5.2	0.067	2.01	39.0	25.4	1.47	767	1.20	1.99	15.2	50.8	810
S727262		5.44	21.2	0.14	4.4	0.069	1.84	36.9	25.1	1.61	856	1.12	1.89	15.7	58.1	820
S727263		5.71	21.2	0.15	4.5	0.075	1.81	36.1	24.7	1.71	895	0.92	1.92	17.2	71.3	870
S727264		5.58	20.4	0.13	4.5	0.073	1.60	35.2	21.8	1.78	937	0.71	1.99	16.5	71.8	820
S727265		6.53	21.2	0.15	4.3	0.082	1.62	33.0	23.4	2.11	1300	0.89	1.82	14.5	90.4	920
S727266		6.49	20.9	0.12	3.9	0.076	1.65	30.4	23.6	2.16	1080	1.06	1.79	14.1	97.1	910
S727267		6.56	21.0	0.17	4.1	0.085	1.58	30.5	23.0	2.21	1270	0.88	1.80	14.4	107.5	910
S727268		5.07	18.15	0.15	4.4	0.077	1.31	31.4	16.9	1.66	924	0.55	2.06	16.0	56.9	800
S727269		5.54	19.25	0.13	4.0	0.070	1.40	28.4	21.2	1.99	937	0.58	1.94	14.4	65.7	740



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124060

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727245		15.2	77.0	<0.002	0.01	0.65	18.7	1	1.5	209	1.04	0.05	10.70	0.571	2.2
S727246		14.4	67.4	<0.002	0.01	1.07	23.0	1	1.6	196.5	0.92	<0.05	8.76	0.563	1.8
S727247		13.4	62.8	<0.002	0.01	1.01	24.0	1	1.6	199.5	1.02	<0.05	8.35	0.585	1.9
S727248		12.9	67.8	<0.002	0.01	1.20	25.0	2	1.7	192.0	1.04	<0.05	9.09	0.611	2.0
S727249		13.7	68.8	<0.002	0.01	1.24	24.3	1	1.7	199.5	1.05	<0.05	8.39	0.621	2.0
S727250		14.0	71.9	<0.002	0.01	1.40	26.5	2	1.8	193.0	1.02	0.05	8.57	0.616	1.9
S727251		12.3	61.9	<0.002	0.01	1.18	24.2	1	1.7	207	1.18	<0.05	8.75	0.659	2.1
S727252		12.7	59.0	<0.002	0.01	1.13	24.9	1	1.8	203	1.02	0.07	7.48	0.631	2.3
S727253		13.1	68.8	<0.002	0.01	1.07	22.4	1	1.7	200	0.99	<0.05	8.35	0.595	2.2
S727254		11.2	67.5	<0.002	0.01	1.05	22.2	1	1.8	202	1.03	0.06	7.95	0.610	2.2
S727255		11.7	66.8	<0.002	0.01	1.29	25.2	1	1.8	196.0	0.94	<0.05	8.28	0.602	2.4
S727256		12.6	64.5	<0.002	0.01	1.48	26.1	1	1.7	214	0.98	0.07	7.84	0.629	1.8
S727257		11.0	60.7	<0.002	0.01	1.36	23.1	1	1.6	199.0	0.95	<0.05	7.06	0.585	1.9
S727258		10.1	55.4	<0.002	0.01	1.09	23.0	2	1.7	210	1.00	0.06	7.33	0.636	1.9
S727259		11.4	62.0	<0.002	<0.01	0.96	20.3	1	1.6	211	0.98	<0.05	7.63	0.621	1.7
S727260		12.4	63.2	<0.002	0.01	1.17	25.0	1	1.8	196.5	1.03	<0.05	7.66	0.621	2.4
S727261		13.8	75.9	<0.002	<0.01	0.67	18.1	1	1.6	222	1.00	0.06	9.84	0.558	2.8
S727262		14.2	71.1	<0.002	0.01	0.73	19.3	1	1.7	213	1.00	0.07	8.86	0.567	2.3
S727263		13.7	71.9	<0.002	0.01	0.85	20.8	2	1.7	216	1.08	0.08	9.20	0.589	2.5
S727264		11.9	62.8	<0.002	0.01	0.95	22.3	1	1.7	221	1.05	0.05	7.88	0.637	1.9
S727265		12.3	64.0	<0.002	0.01	1.17	24.7	1	1.7	201	0.94	0.06	7.74	0.610	2.2
S727266		11.5	59.3	<0.002	0.01	1.20	24.4	1	1.7	196.0	0.94	0.05	7.28	0.601	2.0
S727267		11.2	64.0	<0.002	0.01	1.31	24.1	1	1.8	192.5	0.94	0.08	7.20	0.636	2.0
S727268		9.2	47.8	<0.002	0.01	0.93	21.5	1	1.6	243	1.02	<0.05	6.46	0.677	1.6
S727269		9.5	50.9	<0.002	0.01	0.84	23.1	1	1.5	227	0.92	<0.05	6.55	0.612	1.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S727245		135	0.7	20.7	105	189.0
S727246		156	0.9	20.8	115	161.0
S727247		152	0.9	21.4	104	172.0
S727248		165	1.0	21.6	114	171.5
S727249		163	1.0	21.5	114	170.0
S727250		173	1.1	22.2	119	161.0
S727251		149	1.3	26.8	102	173.0
S727252		150	1.3	28.8	113	156.5
S727253		148	1.1	23.3	105	164.0
S727254		145	1.1	22.7	98	178.5
S727255		156	1.2	23.8	116	153.5
S727256		154	1.2	25.6	105	168.0
S727257		149	1.2	22.2	98	150.0
S727258		146	1.1	23.5	91	166.5
S727259		134	1.3	22.9	88	161.0
S727260		153	1.3	28.4	114	161.5
S727261		129	0.8	22.2	101	184.5
S727262		133	1.1	23.8	104	166.5
S727263		137	1.1	25.0	109	161.5
S727264		143	1.3	24.2	95	163.5
S727265		157	1.5	26.1	113	153.5
S727266		157	1.2	22.8	110	141.0
S727267		162	1.3	23.7	111	150.5
S727268		138	1.1	22.7	78	156.5
S727269		149	1.0	20.0	88	145.0



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
DRY-22 LOG-22 LOG-24 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP22 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: QK-2016-TS-001

This report is for 128 Soil samples submitted to our lab in Val d'Or, QC, Canada on 31-JUL-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
SCR-41	Screen to -180um and save both
DRY-22	Drying - Maximum Temp 60C

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP22	Au 50g FA ICP-AES finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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CERTIFICATE OF ANALYSIS VO16124063

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727751		0.63	0.002	0.04	7.28	8.9	500	1.47	0.13	1.68	0.14	75.3	24.1	162	2.04	47.8
S727752		0.80	0.005	0.03	7.53	10.8	460	1.53	0.12	1.73	0.20	77.5	31.0	202	1.78	62.3
S727753		0.77	0.008	0.04	6.89	7.9	450	1.19	0.10	1.41	0.12	68.9	21.2	154	1.45	65.5
S727754		1.45	0.007	0.05	7.19	12.5	440	1.35	0.11	1.70	0.17	74.2	30.8	194	1.86	66.5
S727755		1.64	0.022	0.06	7.63	9.0	490	1.40	0.12	1.56	0.15	81.2	26.0	166	2.22	72.3
S727756		1.23	0.026	0.02	6.54	4.8	400	1.03	0.07	2.00	0.15	74.8	18.2	150	0.82	31.4
S727757		1.12	0.017	0.03	6.97	6.2	410	1.14	0.08	1.80	0.14	69.6	20.1	169	1.15	35.4
S727758		0.98	0.003	0.04	7.75	8.8	520	1.40	0.11	1.52	0.12	63.4	27.5	196	1.99	55.7
S727759		1.21	0.004	0.04	7.00	6.1	450	1.24	0.09	1.83	0.18	75.1	25.3	178	1.33	39.6
S727760		0.98	0.009	0.06	7.16	6.1	460	1.33	0.09	1.84	0.16	73.0	24.8	174	1.31	40.9
S727761		1.01	0.004	0.03	7.16	7.3	450	1.29	0.11	1.58	0.10	68.2	24.0	183	1.42	43.0
S727762		0.81	0.013	0.07	7.95	11.9	530	1.81	0.14	1.45	0.21	77.9	30.7	184	2.09	60.1
S727763		1.33	0.003	0.04	7.19	5.4	510	1.25	0.10	1.64	0.12	69.5	17.4	114	1.69	33.4
S727764		1.01	0.017	0.04	7.21	5.4	500	1.39	0.09	1.91	0.12	73.9	21.1	151	1.37	31.1
S727765		0.76	0.005	0.05	7.11	6.5	480	1.48	0.09	1.55	0.09	68.4	23.8	167	1.60	40.4
S727766		0.80	0.005	0.03	7.54	5.0	510	1.47	0.09	1.72	0.12	74.2	21.1	153	1.68	31.6
S727767		0.92	0.006	0.04	7.43	4.4	500	1.31	0.08	1.92	0.13	78.2	19.9	148	1.52	28.7
S727768		0.93	0.023	0.04	7.27	5.1	500	1.43	0.09	1.62	0.11	82.4	18.5	117	1.47	33.1
S727769		0.82	0.018	0.08	7.50	16.3	470	1.41	0.08	1.83	0.11	56.6	25.9	136	1.94	68.0
S727770		0.74	0.016	0.05	6.88	5.5	450	1.23	0.08	1.83	0.11	70.2	18.8	146	1.30	40.4
S727771		0.86	0.010	0.06	7.07	6.1	450	1.24	0.09	2.14	0.14	62.9	29.3	207	1.30	56.8
S727772		1.97	0.013	0.04	7.27	6.5	490	1.36	0.10	1.79	0.11	66.3	22.9	186	1.36	35.2
S727773		0.88	0.078	0.05	7.43	6.3	510	1.29	0.09	1.72	0.12	71.4	21.4	168	1.45	35.9
S727774		1.51	0.006	0.05	6.80	5.9	450	1.08	0.08	2.13	0.11	57.3	25.7	206	1.34	54.0
S727775		1.03	0.091	0.16	6.83	1500	450	0.96	0.70	1.93	2.33	48.1	37.2	188	1.27	143.5
S727776		0.69	0.031	0.04	7.07	8.3	460	1.25	0.08	1.81	0.13	67.5	21.7	157	1.28	41.2
S727777		1.54	0.008	0.10	6.99	5.9	480	1.34	0.11	1.65	0.11	67.0	18.4	150	1.32	36.1
S727778		1.43	0.007	0.10	7.05	6.0	510	1.32	0.16	1.81	0.15	67.5	23.0	143	1.65	46.7
S727779		1.23	0.012	0.06	6.70	8.7	460	1.30	0.09	1.98	0.15	66.9	25.0	173	1.51	63.1
S727780		<0.02	0.024	0.16	8.21	13.7	190	0.71	0.31	0.19	0.04	36.4	29.9	552	3.70	359
S727781		1.03	0.039	0.06	6.77	8.6	440	1.17	0.11	2.01	0.15	59.5	27.0	170	1.61	66.6
S727782		1.45	0.007	0.11	7.11	7.1	540	1.55	0.09	1.98	0.23	77.5	26.0	208	2.13	57.7
S727783		1.42	0.003	0.11	7.27	6.2	540	1.67	0.10	2.01	0.22	83.6	27.5	188	1.88	54.2
S727784		1.08	0.007	0.04	7.21	6.3	510	1.64	0.09	1.84	0.09	69.6	24.7	218	2.09	49.1
S727785		1.22	0.011	0.04	7.17	5.4	420	1.28	0.08	2.86	0.11	61.2	30.6	372	2.06	55.0
S727786		1.18	0.003	0.04	7.33	3.1	460	1.35	0.08	2.87	0.12	76.7	20.5	145	1.42	35.9
S727787		1.28	0.003	0.04	6.81	3.3	480	1.31	0.07	2.57	0.13	79.1	19.0	195	1.28	31.1
S727788		1.12	0.003	0.06	7.04	7.7	460	1.38	0.11	2.00	0.10	60.7	23.1	215	2.32	52.8
S727789		1.48	0.004	0.05	6.89	3.3	480	1.35	0.07	2.25	0.18	74.7	19.2	193	1.43	35.1
S727790		1.20	0.002	0.05	7.08	3.6	510	1.49	0.07	2.11	0.13	70.8	19.5	151	1.61	40.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727751		5.04	18.75	0.14	4.3	0.059	1.65	35.1	23.6	1.55	793	0.85	1.91	17.0	60.2	840
S727752		5.73	19.45	0.13	4.0	0.068	1.46	34.2	21.8	1.79	1170	0.67	1.90	18.1	80.9	910
S727753		5.02	17.25	0.15	3.8	0.061	1.55	31.1	20.1	1.74	805	0.69	1.72	13.2	69.1	680
S727754		5.70	18.65	0.13	4.0	0.066	1.39	33.2	20.5	1.87	1060	0.72	1.88	16.4	79.1	980
S727755		5.48	19.80	0.16	4.3	0.068	1.63	38.9	24.8	1.76	899	0.81	1.90	15.7	65.6	750
S727756		4.47	15.60	0.13	4.3	0.057	1.21	32.4	13.1	1.41	872	0.39	2.08	17.5	45.9	960
S727757		5.31	17.50	0.13	4.1	0.062	1.31	30.7	16.6	1.63	976	0.48	1.95	18.4	53.3	880
S727758		5.78	19.90	0.13	4.1	0.060	1.64	31.2	24.3	1.97	903	0.67	1.84	16.4	80.0	850
S727759		5.05	17.60	0.14	3.8	0.055	1.38	32.8	17.9	1.61	897	0.57	2.05	19.2	62.1	940
S727760		5.09	17.80	0.11	3.9	0.060	1.42	33.7	19.0	1.64	893	0.55	2.03	19.5	65.6	950
S727761		5.13	17.80	0.12	4.0	0.062	1.36	32.1	19.9	1.62	812	0.57	1.93	20.7	66.7	760
S727762		5.84	19.70	0.12	3.8	0.066	1.72	35.7	24.1	1.80	1150	0.74	1.81	15.0	83.0	890
S727763		4.36	17.50	0.09	4.0	0.053	1.70	33.0	22.6	1.31	704	0.88	2.03	14.4	42.5	840
S727764		4.92	18.20	0.09	4.8	0.060	1.60	34.8	20.2	1.55	916	0.65	2.06	18.7	57.2	930
S727765		5.16	17.90	0.10	4.0	0.055	1.48	33.0	21.9	1.62	895	0.68	1.79	18.1	62.1	770
S727766		5.24	19.15	0.11	4.2	0.060	1.65	35.3	22.6	1.62	848	0.71	1.97	20.2	54.5	1040
S727767		5.21	19.00	0.14	4.7	0.065	1.56	35.9	20.7	1.56	981	0.65	2.01	19.5	50.9	930
S727768		4.70	18.85	0.16	4.5	0.057	1.69	40.0	21.0	1.37	886	0.66	1.95	17.2	45.5	810
S727769		5.28	19.15	0.11	3.6	0.061	1.65	27.0	20.3	1.84	996	0.60	1.75	15.8	50.5	830
S727770		4.48	17.05	0.13	4.1	0.048	1.48	33.9	17.7	1.44	814	0.60	1.97	17.3	51.1	850
S727771		5.51	17.85	0.12	3.5	0.062	1.37	28.8	20.1	2.15	1100	0.58	1.78	16.0	86.6	830
S727772		5.13	18.20	0.11	4.0	0.058	1.51	32.0	19.4	1.73	878	0.60	1.95	19.6	72.0	850
S727773		4.96	18.40	0.11	4.3	0.057	1.60	34.3	20.3	1.61	874	0.65	1.97	17.6	66.1	860
S727774		5.39	16.60	0.09	3.5	0.059	1.40	26.8	19.2	2.15	1060	0.49	1.74	14.3	63.4	810
S727775		6.80	16.60	0.07	2.8	0.159	1.19	23.9	19.8	2.37	1170	0.45	1.54	11.0	56.5	760
S727776		4.90	17.40	0.09	3.9	0.061	1.51	30.4	19.3	1.63	922	0.61	1.92	16.4	54.0	840
S727777		4.67	18.00	0.14	4.1	0.054	1.51	31.3	17.8	1.49	814	0.58	1.94	16.9	52.1	760
S727778		5.01	17.85	0.15	4.0	0.059	1.65	31.2	20.8	1.61	830	0.77	1.86	15.6	50.3	810
S727779		5.30	17.35	0.14	3.8	0.053	1.48	32.7	20.0	1.82	902	0.84	1.75	15.8	54.0	820
S727780		14.10	20.6	0.10	3.9	0.091	0.41	17.3	21.4	0.23	466	2.43	0.10	14.4	225	430
S727781		5.65	16.80	0.13	3.5	0.062	1.39	25.8	21.0	1.95	956	0.81	1.73	13.9	57.9	810
S727782		5.61	18.95	0.14	4.0	0.068	1.76	39.2	24.8	1.94	833	1.22	1.79	18.9	74.3	1050
S727783		5.73	19.40	0.15	4.5	0.065	1.74	40.9	22.9	1.74	975	1.25	1.89	21.5	69.5	1080
S727784		5.81	19.15	0.13	4.3	0.060	1.63	31.8	24.4	1.95	842	0.93	1.82	20.3	74.7	910
S727785		5.72	17.75	0.14	3.4	0.058	1.31	29.6	25.6	3.33	856	0.65	1.63	14.5	137.5	1120
S727786		5.12	18.15	0.15	5.2	0.063	1.37	35.5	19.2	1.84	829	0.46	2.11	17.1	53.6	1300
S727787		4.61	17.05	0.15	5.0	0.052	1.45	37.5	17.5	1.68	768	0.54	2.07	17.9	53.7	1130
S727788		5.40	17.45	0.14	4.2	0.055	1.47	32.1	23.4	1.92	765	1.28	1.65	18.3	70.2	1050
S727789		4.83	17.05	0.15	4.4	0.053	1.59	35.9	18.8	1.62	751	0.81	1.98	20.1	52.3	1000
S727790		4.85	18.30	0.15	4.1	0.058	1.67	36.6	21.1	1.50	753	0.96	2.07	18.8	48.8	970



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727751		11.9	69.5	<0.002	0.01	0.82	20.5	1	1.7	212	1.07	<0.05	8.38	0.610	1.8
S727752		11.2	60.3	0.002	0.01	0.88	23.5	1	1.8	202	1.10	0.05	7.18	0.667	1.7
S727753		12.0	54.9	0.002	0.01	0.70	17.6	1	1.4	178.0	0.84	<0.05	6.26	0.597	1.5
S727754		11.4	55.2	<0.002	0.01	0.83	21.9	1	1.7	207	0.99	<0.05	6.74	0.650	1.9
S727755		13.3	69.6	<0.002	0.01	0.79	22.0	1	1.7	209	0.97	<0.05	8.42	0.632	1.9
S727756		9.1	39.2	0.002	<0.01	0.64	19.4	1	1.5	240	1.07	<0.05	5.90	0.719	1.3
S727757		8.3	46.2	0.002	0.01	0.75	21.3	1	1.8	202	1.20	<0.05	5.85	0.717	1.6
S727758		11.0	67.0	<0.002	0.01	0.72	21.3	1	1.7	192.0	0.97	<0.05	7.28	0.592	1.6
S727759		9.8	51.6	<0.002	<0.01	0.73	19.7	1	1.6	214	1.19	<0.05	6.56	0.681	1.5
S727760		9.4	54.3	<0.002	<0.01	0.65	21.1	1	1.6	215	1.08	<0.05	5.67	0.685	1.5
S727761		9.3	56.3	<0.002	0.01	0.74	21.4	1	1.6	201	1.09	<0.05	5.74	0.652	1.5
S727762		11.6	71.8	<0.002	<0.01	1.05	23.5	1	1.8	191.0	0.89	<0.05	7.14	0.606	1.7
S727763		12.1	66.4	<0.002	0.01	0.44	16.7	1	1.4	244	0.87	0.05	7.38	0.537	2.0
S727764		9.6	59.2	<0.002	<0.01	0.56	20.8	1	1.7	223	1.14	<0.05	6.99	0.610	2.2
S727765		10.1	62.3	<0.002	0.01	0.61	20.3	1	1.5	193.0	1.01	0.05	5.96	0.587	1.7
S727766		9.8	66.6	<0.002	0.01	0.55	20.7	1	1.6	216	1.11	<0.05	6.50	0.617	2.1
S727767		9.7	59.2	<0.002	0.01	0.58	21.5	1	1.6	235	1.11	<0.05	6.28	0.634	2.4
S727768		11.6	63.4	<0.002	<0.01	0.52	18.6	2	1.6	219	1.01	<0.05	7.30	0.569	2.1
S727769		9.4	58.9	<0.002	<0.01	0.88	22.6	1	1.6	210	0.90	0.06	4.54	0.580	1.5
S727770		9.0	54.6	<0.002	<0.01	0.51	19.6	1	1.5	226	1.04	<0.05	6.28	0.592	1.8
S727771		8.3	48.9	<0.002	0.01	0.61	24.2	2	1.5	213	0.91	0.05	4.97	0.575	1.4
S727772		9.1	57.8	<0.002	0.01	0.55	21.3	1	1.6	209	1.06	<0.05	5.73	0.614	1.6
S727773		10.4	61.2	<0.002	0.01	0.48	20.0	1	1.6	221	1.00	<0.05	6.34	0.576	1.8
S727774		7.8	48.3	<0.002	<0.01	0.64	24.8	1	1.3	203	0.78	<0.05	4.58	0.558	1.3
S727775		8.4	36.8	<0.002	0.01	1.12	28.5	1	1.3	176.5	0.65	0.05	3.35	0.496	1.2
S727776		8.7	53.6	<0.002	0.01	0.55	20.9	2	1.5	206	0.97	<0.05	5.30	0.568	1.4
S727777		10.2	54.9	0.002	0.01	0.60	19.7	1	1.6	202	1.08	0.06	5.98	0.565	1.4
S727778		22.4	58.5	<0.002	0.01	0.58	19.3	1	1.5	220	0.94	0.07	6.61	0.551	1.6
S727779		12.3	52.0	<0.002	0.01	0.63	21.9	1	1.4	206	0.91	0.06	6.07	0.569	1.5
S727780		19.5	43.2	0.003	0.05	0.80	52.5	4	2.6	32.1	1.08	0.10	14.30	0.747	2.4
S727781		14.1	48.1	0.003	0.01	0.62	22.1	1	1.4	215	0.82	<0.05	5.61	0.552	1.3
S727782		13.8	67.2	<0.002	0.01	0.55	21.8	1	1.5	206	1.08	0.07	8.25	0.619	1.7
S727783		13.6	68.2	0.002	0.01	0.51	21.4	2	1.7	204	1.26	0.06	8.60	0.684	1.7
S727784		13.1	68.0	<0.002	0.02	0.45	20.9	1	1.6	194.0	1.16	0.05	7.89	0.671	1.6
S727785		8.1	50.6	0.003	0.01	0.57	22.4	1	1.4	257	0.88	<0.05	5.09	0.601	1.3
S727786		9.6	50.0	0.002	0.01	0.44	20.6	2	1.7	312	0.96	<0.05	6.67	0.672	1.4
S727787		10.3	49.9	0.002	<0.01	0.41	19.0	1	1.5	297	1.07	<0.05	6.76	0.656	1.5
S727788		12.4	62.9	0.002	0.02	0.52	19.1	1	1.5	213	1.08	0.05	8.23	0.654	1.8
S727789		10.1	55.9	0.002	<0.01	0.35	18.9	1	1.5	239	1.16	<0.05	7.39	0.692	1.6
S727790		11.5	64.2	0.002	<0.01	0.34	18.6	1	1.6	241	1.09	<0.05	10.45	0.645	1.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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S727751		138	0.9	19.9	88	165.0
S727752		159	1.0	21.6	94	158.5
S727753		131	0.9	18.5	81	146.0
S727754		148	1.1	22.8	108	161.5
S727755		151	1.0	21.3	95	164.0
S727756		133	0.9	21.7	66	168.0
S727757		136	1.3	26.0	89	159.5
S727758		150	1.0	19.8	99	155.0
S727759		140	1.0	21.1	78	148.0
S727760		136	0.9	22.0	81	164.5
S727761		139	1.0	20.9	79	174.5
S727762		153	1.1	24.1	101	160.0
S727763		110	0.7	19.4	79	166.0
S727764		121	1.3	30.8	84	181.5
S727765		130	0.9	23.3	86	159.5
S727766		124	1.2	26.4	93	170.0
S727767		119	1.1	33.7	87	189.0
S727768		108	1.5	31.1	79	187.5
S727769		135	1.7	28.7	88	146.0
S727770		116	1.1	26.1	74	162.5
S727771		143	1.3	25.2	88	142.5
S727772		127	1.1	27.3	88	161.5
S727773		119	1.2	26.2	84	171.0
S727774		143	1.1	24.0	83	143.5
S727775		149	1.0	24.4	626	113.0
S727776		121	1.3	25.5	84	159.0
S727777		116	1.4	24.3	79	154.5
S727778		122	0.9	20.8	103	158.0
S727779		137	0.8	21.5	104	150.0
S727780		228	1.6	10.1	43	147.0
S727781		135	0.9	19.8	115	134.5
S727782		144	0.7	22.1	113	159.0
S727783		147	0.7	23.9	106	176.5
S727784		153	0.8	19.6	90	172.0
S727785		155	0.7	19.8	88	135.0
S727786		140	0.8	24.7	81	218
S727787		128	0.7	22.1	75	186.0
S727788		144	2.3	19.5	89	164.0
S727789		138	0.6	20.7	81	173.0
S727790		135	0.5	19.8	86	164.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727791		1.24	0.008	0.06	7.31	4.6	540	1.54	0.08	1.99	0.15	75.0	21.5	167	2.06	50.1
S727792		1.16	0.002	0.06	7.14	4.0	520	1.41	0.09	2.07	0.12	67.7	21.3	167	1.82	37.0
S727793		0.97	0.002	0.05	6.93	3.5	490	1.33	0.09	2.37	0.13	76.9	23.6	191	1.63	38.3
S727794		1.11	0.009	0.04	7.01	4.1	510	1.47	0.09	2.21	0.16	76.8	20.5	183	1.53	36.9
S727795		1.44	0.002	0.04	6.98	4.8	530	1.49	0.08	1.57	0.13	87.3	16.8	112	1.90	36.4
S727796		1.29	0.001	0.05	7.07	4.4	530	1.45	0.08	1.83	0.19	77.8	18.5	126	1.66	35.2
S727797		0.96	0.002	0.06	6.72	3.3	500	1.40	0.07	1.97	0.15	80.1	15.4	103	1.35	27.4
S727798		0.95	0.003	0.04	7.04	5.3	520	1.33	0.09	2.04	0.08	78.3	20.8	144	1.66	44.5
S727799		1.03	0.001	0.04	7.15	4.9	550	1.41	0.10	1.64	0.12	74.9	16.6	103	2.15	29.2
S727800		0.09	0.001	0.03	6.25	0.7	410	0.95	0.05	1.90	0.04	24.3	5.6	49	0.74	6.7
S727801		0.79	0.004	0.04	6.63	3.2	470	1.26	0.06	2.42	0.12	78.2	18.1	243	1.15	27.5
S727802		1.53	0.003	0.08	7.21	6.7	550	1.47	0.11	1.78	0.19	80.5	24.3	170	2.18	43.8
S727803		1.36	0.005	0.05	6.80	9.6	480	1.32	0.08	2.41	0.13	87.6	24.1	206	1.23	26.5
S727804		0.80	0.005	0.05	7.20	4.3	490	1.37	0.09	1.89	0.15	68.0	23.1	166	1.69	39.4
S727805		1.19	0.037	0.10	6.41	5.0	390	1.07	0.11	2.30	0.28	83.4	20.5	183	1.17	27.7
S727806		1.38	0.002	0.07	7.28	5.9	540	1.52	0.09	1.78	0.18	74.8	20.5	148	2.05	43.1
S727807		1.42	0.002	0.06	6.81	4.0	510	1.28	0.09	1.63	0.17	68.8	24.9	216	1.91	43.4
S727808		1.26	0.018	0.07	6.96	7.1	470	1.29	0.09	1.96	0.23	70.8	27.2	186	1.58	61.2
S727809		0.73	0.002	0.04	6.88	3.7	490	1.38	0.07	2.04	0.12	82.2	19.2	192	1.44	30.5
S728251		2.14	0.004	0.08	7.86	14.0	620	1.47	0.12	1.73	0.14	80.9	21.8	82	1.24	84.2
S728252		1.33	0.002	0.07	7.38	5.6	540	1.51	0.09	1.75	0.17	97.4	19.4	111	1.67	42.2
S728253		1.89	0.004	0.09	7.80	8.7	550	1.39	0.11	1.82	0.17	77.3	24.2	122	1.94	60.7
S728254		1.71	0.003	0.05	6.39	4.5	460	0.84	0.08	2.51	0.11	67.9	35.3	405	1.52	69.1
S728255		1.07	0.002	0.01	7.19	5.5	470	1.34	0.10	1.54	0.13	84.8	29.3	170	1.82	35.7
S728256		1.51	0.020	0.48	6.82	118.5	480	1.27	1.00	1.72	0.22	88.4	29.0	197	1.66	73.0
S728257		1.90	0.005	0.05	7.23	7.8	510	1.09	0.11	1.76	0.12	57.0	26.4	211	2.03	51.2
S728258		1.40	0.015	0.05	6.82	5.0	480	1.18	0.09	1.66	0.11	52.0	28.4	234	2.27	75.0
S728259		1.20	0.003	0.07	8.77	6.0	690	1.45	0.14	2.42	0.22	101.0	31.8	242	2.93	71.4
S728260		1.56	0.018	0.03	6.85	3.9	420	0.92	0.15	1.77	0.13	53.1	30.4	166	1.25	108.0
S728261		1.39	0.003	0.05	6.88	3.4	400	0.96	0.08	1.35	0.15	50.5	37.6	313	1.87	105.5
S728262		1.66	0.008	0.04	6.49	3.9	470	1.13	0.08	2.03	0.15	67.6	22.7	107	1.59	79.7
S728263		1.93	0.015	0.05	6.73	3.5	520	1.28	0.10	2.08	0.17	87.0	24.7	129	1.55	68.4
S728264		2.14	0.002	0.05	6.68	3.4	530	1.35	0.09	2.02	0.16	86.5	21.9	143	1.44	41.6
S728265		1.47	0.002	0.09	7.65	5.6	580	1.59	0.14	1.47	0.15	60.3	33.0	147	3.09	69.4
S728266		1.70	0.003	0.07	7.02	6.4	560	1.71	0.13	1.68	0.22	102.0	26.6	148	2.66	56.4
S728267		1.84	0.005	0.09	7.32	4.7	580	1.55	0.13	1.87	0.21	92.9	26.3	141	2.26	52.6
S728268		2.42	0.004	0.06	6.96	3.3	500	1.19	0.11	1.94	0.17	76.6	24.1	117	1.74	49.6
S728269		1.58	0.004	0.08	6.99	4.7	540	1.76	0.11	2.15	0.17	158.5	28.4	182	1.94	48.9
S728270		1.51	0.005	0.06	7.25	13.3	520	1.34	0.13	1.75	0.19	77.5	31.2	204	2.08	67.0
S728271		<0.02	0.024	0.16	7.95	12.4	180	0.61	0.31	0.18	0.04	37.8	30.8	529	3.90	341



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727791		5.18	19.00	0.16	4.0	0.059	1.83	38.0	24.3	1.71	762	0.99	1.90	19.0	58.3	940
S727792		4.96	18.30	0.14	4.1	0.055	1.72	33.9	22.2	1.71	773	0.92	1.91	18.2	57.2	810
S727793		4.97	17.40	0.15	4.1	0.056	1.61	37.5	21.2	1.99	704	0.73	1.87	16.8	64.4	810
S727794		4.71	17.45	0.12	4.3	0.056	1.63	35.9	20.0	1.60	779	0.63	2.06	18.9	56.2	1050
S727795		4.45	18.15	0.16	4.5	0.054	1.84	46.4	22.2	1.29	605	1.14	1.87	16.8	39.6	800
S727796		4.76	17.30	0.16	4.7	0.054	1.76	38.5	20.5	1.41	748	0.94	1.96	19.0	47.0	970
S727797		4.13	17.45	0.17	4.6	0.054	1.69	41.2	18.4	1.22	635	0.87	2.05	18.7	39.6	1010
S727798		5.05	17.30	0.15	4.2	0.053	1.62	39.0	20.6	1.60	803	0.71	1.88	17.4	54.0	830
S727799		4.40	18.65	0.14	4.6	0.053	1.92	34.5	23.7	1.21	655	1.14	1.98	14.9	36.4	840
S727800		1.57	13.65	0.11	1.5	0.022	1.27	10.4	7.8	0.54	274	0.09	2.66	3.6	17.8	220
S727801		4.58	15.90	0.14	4.4	0.056	1.47	37.4	16.2	1.87	736	0.65	1.99	18.1	58.6	1020
S727802		5.18	18.60	0.14	4.1	0.055	1.82	40.0	23.9	1.79	937	1.14	1.81	17.0	67.3	990
S727803		4.57	17.10	0.15	5.2	0.054	1.44	39.4	16.1	1.77	823	0.48	2.03	16.3	59.3	980
S727804		5.45	18.00	0.16	3.5	0.060	1.54	31.8	21.0	1.89	915	0.65	1.71	16.5	60.3	910
S727805		5.07	17.00	0.17	4.7	0.072	1.12	39.4	13.7	1.47	958	0.51	1.75	18.5	44.0	920
S727806		5.35	18.95	0.16	4.3	0.065	1.80	38.4	23.9	1.66	817	1.27	1.88	17.7	52.3	950
S727807		5.36	17.75	0.15	3.9	0.056	1.49	34.8	21.5	2.08	1000	0.67	1.72	14.2	57.7	870
S727808		5.62	17.65	0.15	4.7	0.059	1.53	35.7	19.8	1.98	1100	0.98	1.74	14.6	60.5	950
S727809		4.87	17.05	0.14	4.8	0.054	1.56	40.0	18.5	1.49	797	0.78	2.00	20.5	46.4	920
S728251		6.26	20.4	0.14	5.1	0.069	1.27	37.8	18.3	1.49	810	1.46	1.99	23.3	30.0	1470
S728252		4.76	19.10	0.18	4.6	0.056	1.53	48.7	22.3	1.46	828	0.65	2.04	32.4	44.7	1150
S728253		5.45	19.75	0.15	4.2	0.066	1.67	37.8	22.7	1.73	870	0.65	1.97	18.7	49.5	830
S728254		4.47	16.40	0.10	4.7	0.045	1.31	32.6	13.1	3.28	675	0.29	1.83	14.3	255	840
S728255		5.46	19.05	0.11	4.0	0.066	1.42	36.8	18.8	1.60	928	0.67	1.79	27.9	69.6	1110
S728256		4.99	20.1	0.13	4.2	0.092	1.51	40.6	18.6	1.70	923	0.99	1.97	25.4	90.2	910
S728257		5.53	16.75	0.09	3.2	0.051	1.61	29.9	20.0	2.13	947	0.47	1.73	16.0	83.6	960
S728258		5.50	16.90	0.10	3.0	0.054	1.55	25.0	19.9	2.13	929	0.39	1.67	15.5	89.3	870
S728259		6.22	21.8	0.14	5.0	0.072	2.03	46.5	24.5	2.33	1160	0.53	2.39	21.5	95.1	1290
S728260		6.38	16.60	0.07	3.0	0.065	1.26	23.9	15.9	2.10	1220	0.35	1.73	13.6	62.9	860
S728261		6.54	16.90	0.08	2.5	0.060	1.29	23.6	25.7	2.81	1240	0.32	1.52	12.1	117.0	910
S728262		4.90	16.05	0.08	3.7	0.059	1.33	31.8	17.6	1.47	849	0.31	1.87	17.0	42.1	940
S728263		5.14	17.90	0.11	4.9	0.064	1.49	43.8	18.4	1.58	872	0.38	2.02	21.4	53.1	1170
S728264		4.60	17.70	0.10	4.7	0.058	1.52	41.1	18.0	1.42	852	0.45	2.11	28.0	51.3	1170
S728265		6.61	21.5	0.10	3.6	0.061	1.82	33.9	33.7	2.19	947	0.58	1.71	18.4	74.8	1040
S728266		5.52	19.75	0.13	4.5	0.064	1.72	49.7	27.1	1.66	963	1.02	1.86	31.8	72.0	1300
S728267		5.25	19.70	0.12	4.7	0.061	1.77	45.7	22.3	1.66	906	0.63	2.04	26.4	66.6	1240
S728268		4.95	17.40	0.10	3.7	0.058	1.53	36.7	18.6	1.53	912	0.40	1.92	17.6	51.2	1010
S728269		5.45	20.1	0.17	4.9	0.070	1.54	77.4	22.6	1.73	1020	0.82	2.07	36.2	79.8	1910
S728270		6.28	19.40	0.11	4.0	0.068	1.48	37.9	21.3	2.01	1120	0.95	1.83	19.4	88.7	1030
S728271		13.90	21.3	0.07	3.7	0.094	0.41	18.2	17.4	0.22	461	2.14	0.09	14.0	222	420



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727791		11.6	71.9	0.002	0.01	0.43	19.2	1	1.6	224	1.10	<0.05	8.10	0.628	1.7
S727792		12.2	68.4	0.002	0.01	0.37	18.6	1	1.5	228	1.05	<0.05	8.17	0.606	1.7
S727793		11.0	60.2	0.002	<0.01	0.38	20.4	1	1.4	223	1.00	<0.05	9.60	0.612	1.6
S727794		11.8	59.1	<0.002	0.01	0.40	19.8	1	1.4	261	1.07	<0.05	8.42	0.603	1.7
S727795		12.3	69.8	<0.002	0.01	0.40	15.9	1	1.5	203	0.97	<0.05	9.58	0.564	2.0
S727796		11.9	63.8	<0.002	0.01	0.37	16.5	1	1.5	218	1.10	<0.05	8.23	0.620	1.7
S727797		11.6	60.4	0.002	<0.01	0.34	15.9	1	1.4	237	1.09	<0.05	8.05	0.627	1.9
S727798		10.7	60.3	0.002	0.01	0.47	20.6	1	1.4	232	1.01	<0.05	7.47	0.633	1.6
S727799		14.7	79.1	0.002	0.01	0.41	15.3	1	1.5	226	0.94	<0.05	8.86	0.547	2.1
S727800		6.9	46.6	<0.002	<0.01	0.10	6.5	<1	0.6	388	0.34	<0.05	1.54	0.177	0.5
S727801		9.7	48.2	<0.002	<0.01	0.37	19.8	1	1.4	268	1.08	<0.05	7.07	0.681	1.4
S727802		13.6	71.8	0.002	<0.01	0.50	19.9	1	1.6	221	1.00	<0.05	9.33	0.567	1.9
S727803		11.8	50.5	0.002	<0.01	0.59	20.5	1	1.5	284	0.99	<0.05	7.99	0.623	1.5
S727804		10.9	60.5	0.003	0.01	0.51	21.9	1	1.6	203	0.96	<0.05	6.70	0.600	1.4
S727805		12.4	38.5	<0.002	0.01	1.47	26.6	1	1.8	267	1.02	0.07	7.09	0.684	1.6
S727806		13.1	72.7	0.002	0.01	0.48	19.4	1	1.6	213	1.02	0.05	8.58	0.615	2.0
S727807		11.7	59.5	<0.002	0.01	0.49	23.0	1	1.4	216	0.87	<0.05	7.36	0.542	1.4
S727808		11.8	54.9	0.003	0.01	0.63	22.4	1	1.5	197.0	0.90	<0.05	6.42	0.596	1.9
S727809		10.9	55.2	0.004	0.01	0.38	18.0	1	1.6	230	1.20	<0.05	8.03	0.710	1.5
S728251		11.2	45.6	<0.002	0.02	0.86	21.7	3	1.9	285	1.05	0.76	7.54	0.637	1.7
S728252		12.5	62.8	<0.002	0.01	0.79	17.5	1	1.8	275	1.32	0.06	9.58	0.614	1.8
S728253		12.3	67.7	0.002	0.01	0.94	21.1	2	1.7	277	1.04	0.06	8.42	0.576	1.5
S728254		11.0	47.7	0.002	0.01	0.36	18.3	1	1.1	267	0.86	<0.05	6.70	0.534	1.2
S728255		12.7	56.6	0.002	0.01	0.76	20.6	1	1.5	209	1.24	<0.05	7.36	0.664	1.4
S728256		21.7	58.7	0.003	0.01	1.71	25.3	1	1.8	246	1.30	0.14	7.91	0.625	1.7
S728257		10.5	57.0	0.002	0.01	0.89	23.7	1	1.3	249	0.79	<0.05	6.22	0.553	1.3
S728258		9.5	49.5	<0.002	0.01	0.90	26.3	1	1.2	231	0.86	<0.05	5.07	0.522	1.2
S728259		15.2	72.7	<0.002	0.01	0.81	31.7	1	1.6	378	1.16	<0.05	9.40	0.702	1.8
S728260		10.5	36.3	<0.002	0.01	1.10	31.2	1	1.3	234	0.80	<0.05	4.85	0.750	1.1
S728261		8.2	37.9	<0.002	0.01	0.80	31.9	1	1.1	185.0	0.67	<0.05	4.58	0.568	1.0
S728262		9.5	42.2	<0.002	0.01	0.54	24.1	1	1.1	273	0.83	<0.05	6.76	0.628	1.3
S728263		12.3	47.8	<0.002	0.01	0.45	23.1	2	1.3	289	1.17	<0.05	8.29	0.645	1.6
S728264		13.0	52.8	<0.002	0.01	0.38	20.4	1	1.4	292	1.32	<0.05	8.80	0.646	1.7
S728265		13.4	65.1	<0.002	0.01	0.50	26.6	1	1.6	220	0.99	<0.05	9.23	0.550	1.8
S728266		15.0	73.5	<0.002	0.01	0.43	21.3	1	1.6	237	1.68	<0.05	11.00	0.594	2.1
S728267		15.4	71.6	<0.002	0.01	0.35	20.3	1	1.6	265	1.32	0.05	10.10	0.608	2.2
S728268		11.9	55.0	<0.002	0.01	0.36	21.7	1	1.3	282	0.93	<0.05	7.69	0.579	1.4
S728269		15.5	65.7	0.002	0.01	0.32	23.0	2	1.6	271	1.89	<0.05	15.30	0.750	2.4
S728270		12.9	59.2	<0.002	0.01	0.66	25.8	1	1.5	239	1.08	0.06	8.20	0.605	1.8
S728271		20.7	42.7	<0.002	0.05	0.75	55.3	3	2.5	33.2	1.02	0.10	14.10	0.756	2.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727791		142	0.6	20.1	97	158.0
S727792		136	0.6	18.7	89	171.5
S727793		140	0.6	19.7	87	160.5
S727794		129	0.7	20.0	81	171.5
S727795		119	0.6	20.2	83	179.0
S727796		130	0.6	20.0	112	191.5
S727797		120	0.5	20.6	74	187.0
S727798		140	0.6	21.4	80	164.5
S727799		117	0.5	17.9	83	178.5
S727800		44	0.2	7.1	21	65.7
S727801		137	0.6	21.1	71	175.0
S727802		135	0.8	20.8	96	158.5
S727803		127	0.8	22.6	73	198.0
S727804		142	0.7	21.9	103	141.5
S727805		138	0.8	26.8	110	186.5
S727806		138	0.7	21.1	102	168.0
S727807		147	0.7	20.4	90	155.0
S727808		149	0.9	22.4	110	178.0
S727809		136	0.6	20.7	79	194.5
S728251		142	0.5	25.1	118	205
S728252		128	0.6	21.8	101	188.5
S728253		147	0.7	22.1	104	159.5
S728254		118	0.5	19.8	64	173.5
S728255		142	0.6	20.2	95	165.0
S728256		141	1.3	22.3	98	160.5
S728257		164	1.1	18.4	89	120.0
S728258		165	1.2	18.3	84	108.0
S728259		180	1.5	25.6	99	186.5
S728260		207	1.3	20.6	96	108.0
S728261		206	1.1	19.2	94	95.0
S728262		154	0.7	20.7	74	143.5
S728263		154	0.7	22.8	79	181.5
S728264		133	0.7	21.7	72	176.0
S728265		188	0.8	20.9	120	134.5
S728266		139	0.8	24.2	107	173.0
S728267		136	0.8	22.7	99	175.5
S728268		149	0.6	20.8	80	140.5
S728269		142	0.7	31.5	97	191.0
S728270		166	0.9	22.3	121	153.5
S728271		223	1.5	11.7	42	146.5



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728272		1.94	0.002	0.08	7.16	5.2	590	1.75	0.11	1.85	0.24	99.7	31.3	175	2.36	56.0
S728273		2.10	0.008	0.06	6.81	3.3	450	1.21	0.09	2.36	0.18	79.0	28.4	138	1.37	45.0
S728274		1.36	0.001	0.04	6.81	3.8	520	1.90	0.09	2.04	0.11	112.5	24.8	213	1.75	38.5
S728275		1.79	0.002	0.04	6.64	2.5	510	1.44	0.07	2.21	0.10	103.0	19.0	162	1.26	22.8
S728276		1.80	0.001	0.04	6.70	2.8	510	1.56	0.08	2.10	0.12	101.0	17.8	135	1.35	27.2
S728277		1.50	0.004	0.05	6.91	3.5	480	1.44	0.10	2.80	0.12	76.2	35.3	463	1.61	64.3
S728278		1.57	0.003	0.16	7.39	12.0	560	1.63	0.14	2.03	0.20	88.9	32.5	227	2.34	78.7
S728279		1.76	0.006	0.15	6.94	7.6	520	1.83	0.10	2.34	0.20	82.1	22.7	196	1.36	40.5
S728280		1.64	0.002	0.06	7.26	5.0	560	1.76	0.11	1.71	0.09	97.5	28.1	177	2.26	41.6
S728281		1.57	0.004	0.02	6.63	2.9	460	1.26	0.08	2.82	0.11	96.8	24.5	224	0.97	26.5
S728282		1.71	0.003	0.04	6.67	3.7	550	1.34	0.10	2.18	0.12	82.9	17.4	168	1.43	25.6
S728283		1.29	0.002	0.05	6.92	4.5	540	1.49	0.11	2.30	0.16	81.7	26.2	135	1.77	45.3
S728284		1.40	0.002	0.03	6.80	3.2	540	1.21	0.07	2.53	0.15	71.5	28.1	115	1.13	43.1
S728285		1.25	0.004	0.03	6.57	3.4	480	1.26	0.07	2.50	0.17	83.7	25.1	121	1.21	33.7
S728286		1.26	0.002	0.06	6.60	3.9	490	1.88	0.09	2.14	0.18	106.0	23.6	131	1.57	33.4
S728287		2.04	0.003	0.09	6.73	6.8	480	1.55	0.09	1.99	0.22	84.8	26.0	144	1.74	55.8
S728288		1.29	0.010	0.11	7.01	11.6	440	1.34	0.09	2.51	0.34	82.2	32.3	173	1.53	85.0
S728289		1.36	0.116	2.60	6.33	248	440	1.06	2.77	1.64	0.33	61.7	17.6	209	1.59	314
S728290		1.22	0.002	0.07	6.82	5.9	510	2.10	0.11	2.04	0.20	131.0	21.9	140	1.70	49.6
S728291		0.12	<0.001	0.02	6.10	0.5	390	1.05	0.05	1.84	0.02	23.6	5.8	37	0.79	7.2
S728292		1.13	0.008	0.06	6.78	13.2	470	1.61	0.11	2.29	0.17	91.8	21.2	143	1.45	61.1
S728293		1.51	0.005	0.05	6.88	9.2	510	1.65	0.10	2.22	0.18	100.5	24.4	154	1.62	47.2
S728294		1.52	0.004	0.01	6.79	4.3	470	1.76	0.10	2.12	0.11	89.4	17.6	133	1.45	37.4
S728295		1.51	0.002	0.02	7.19	4.6	540	2.04	0.12	2.66	0.17	114.5	21.5	175	1.55	32.1
S728296		2.64	0.004	0.04	7.35	4.4	570	1.74	0.10	2.40	0.18	87.0	26.4	173	2.10	56.7
S728297		1.07	0.003	0.04	9.08	33.5	710	2.30	0.26	1.11	0.13	142.5	38.5	216	5.69	103.5
S728298		1.32	0.003	0.03	7.20	3.7	580	1.59	0.10	2.40	0.12	81.0	19.3	130	1.73	40.7
S728299		1.84	0.002	0.06	7.68	3.7	570	1.88	0.10	2.54	0.15	93.4	26.0	215	1.72	48.2
S728300		1.85	0.003	0.02	7.44	3.1	470	1.23	0.08	3.42	0.12	60.2	28.1	237	1.32	60.1
S728301		1.26	0.002	0.01	7.28	2.4	450	1.48	0.08	3.66	0.12	60.9	25.4	238	1.05	40.6
S728302		2.14	0.003	0.01	7.39	2.7	460	1.52	0.08	3.81	0.15	54.1	25.9	221	1.12	50.6
S728303		1.69	0.003	0.03	7.27	3.1	470	1.47	0.10	3.50	0.11	75.0	26.7	212	1.35	61.2
S728304		1.23	0.004	0.01	6.94	2.8	400	1.16	0.07	4.44	0.14	55.0	28.8	256	0.76	39.8
S728305		1.54	0.001	0.04	6.66	3.1	520	1.69	0.08	1.85	0.14	92.0	15.5	86	1.42	29.6
S728306		1.44	0.003	0.03	7.21	8.7	550	2.06	0.11	2.02	0.11	101.5	18.4	99	1.87	29.0
S728307		1.20	0.019	0.02	6.54	2.5	480	1.52	0.09	2.36	0.13	106.5	14.7	100	1.11	21.4
S728308		1.99	0.003	0.03	7.06	4.7	480	1.45	0.09	1.76	0.13	80.9	25.0	143	1.77	42.4
S728309		1.95	0.009	0.05	7.39	6.3	450	1.44	0.10	2.48	0.21	72.4	27.7	188	1.34	70.4
S728310		1.59	0.003	0.06	7.45	4.5	560	1.52	0.12	2.30	0.16	90.3	21.3	116	1.74	50.7
S728311		1.38	0.002	0.03	7.04	3.4	510	1.57	0.09	2.32	0.12	91.2	18.6	132	1.35	30.9



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
S728272		5.55	20.5	0.12	4.7	0.064	1.74	49.3	25.8	1.80	888	0.83	1.97	27.3	99.9	1290
S728273		5.54	18.55	0.10	4.0	0.062	1.28	37.0	17.5	1.71	958	0.45	2.08	22.5	59.7	1180
S728274		5.22	19.00	0.14	5.4	0.064	1.44	56.9	23.1	1.71	791	0.73	2.08	38.9	74.1	1420
S728275		4.30	18.40	0.11	5.8	0.061	1.49	49.1	18.5	1.32	697	0.56	2.29	32.7	54.5	1280
S728276		4.25	17.80	0.13	5.6	0.056	1.54	51.4	19.1	1.29	674	0.53	2.24	33.8	50.3	1340
S728277		4.78	17.85	0.11	4.0	0.052	1.42	35.7	24.3	2.13	986	0.43	1.90	20.8	199.0	890
S728278		5.87	19.90	0.12	4.5	0.065	1.65	44.4	26.8	1.73	894	0.90	1.87	22.2	103.0	1070
S728279		4.78	17.20	0.10	5.4	0.057	1.49	39.0	17.9	1.39	825	0.55	2.18	21.9	66.5	1070
S728280		5.42	19.80	0.11	4.8	0.062	1.69	43.7	27.5	1.71	884	0.75	1.98	28.6	80.3	1050
S728281		4.68	16.80	0.12	5.5	0.059	1.27	44.1	15.5	1.53	874	0.43	2.15	25.2	68.6	1100
S728282		3.81	16.20	0.10	4.8	0.047	1.61	40.6	17.9	1.31	716	0.36	2.12	17.0	63.5	990
S728283		4.49	18.25	0.11	4.1	0.053	1.63	39.7	22.2	1.43	767	0.45	2.06	20.1	59.1	970
S728284		5.51	15.65	0.10	3.5	0.051	1.34	35.2	17.2	1.63	904	0.46	2.12	18.1	43.6	1000
S728285		4.91	17.85	0.12	4.4	0.063	1.33	39.8	17.7	1.51	904	0.52	2.13	30.9	47.7	1190
S728286		4.70	18.90	0.13	4.9	0.060	1.44	57.2	22.2	1.47	803	0.70	2.15	41.3	55.3	1510
S728287		5.33	17.95	0.11	4.3	0.065	1.45	43.5	21.4	1.50	853	0.87	1.98	26.2	67.2	1230
S728288		6.31	18.65	0.10	3.8	0.068	1.26	36.9	20.6	1.85	975	1.12	1.99	23.5	77.7	1210
S728289		12.90	21.6	0.14	4.7	0.179	1.71	31.0	15.2	1.38	581	21.3	1.35	21.7	64.0	1350
S728290		4.97	20.5	0.20	5.4	0.069	1.53	69.2	26.5	1.44	897	1.76	2.18	50.5	58.3	1600
S728291		1.47	14.90	0.11	1.5	0.021	1.23	11.1	7.8	0.50	262	0.16	2.63	3.5	19.7	250
S728292		5.47	18.90	0.16	4.8	0.065	1.39	40.7	22.6	1.59	799	1.25	2.11	42.4	55.2	1400
S728293		5.34	19.40	0.18	4.8	0.072	1.51	48.5	24.2	1.61	934	0.93	2.09	36.9	65.0	1400
S728294		4.63	18.50	0.16	5.2	0.057	1.45	44.9	22.2	1.41	688	0.78	2.19	35.0	46.7	1340
S728295		5.07	19.40	0.18	5.0	0.064	1.54	53.8	20.2	1.86	1020	0.50	2.29	86.2	58.2	1950
S728296		5.69	19.90	0.17	4.9	0.061	1.61	44.1	27.4	1.97	886	1.04	2.10	30.8	82.9	1380
S728297		8.12	26.7	0.20	4.9	0.084	2.09	70.8	56.2	2.51	1260	1.40	1.12	21.7	134.0	1480
S728298		4.68	18.45	0.14	5.3	0.048	1.59	39.4	20.1	1.51	739	0.56	2.19	15.9	52.6	990
S728299		5.55	20.4	0.19	5.3	0.066	1.63	45.0	24.7	1.91	1130	0.79	2.39	33.8	82.6	1400
S728300		5.98	18.50	0.15	3.9	0.057	1.23	27.7	19.5	2.54	1040	0.47	2.12	19.0	79.4	1140
S728301		5.78	17.85	0.16	4.3	0.066	1.20	28.4	17.6	2.41	984	0.45	2.24	28.3	69.1	1240
S728302		5.77	17.95	0.14	4.3	0.055	1.21	26.1	16.8	2.43	1040	0.39	2.18	18.5	73.3	1090
S728303		6.04	18.60	0.13	4.1	0.068	1.24	37.1	20.4	2.28	1010	0.53	2.17	47.4	72.2	1290
S728304		6.06	16.55	0.11	3.6	0.061	1.08	25.4	12.6	2.70	1100	0.36	2.09	18.8	75.5	1160
S728305		3.77	18.20	0.16	4.6	0.053	1.61	48.7	20.4	1.16	646	0.71	2.36	27.2	40.4	1180
S728306		4.77	20.5	0.22	6.1	0.059	1.66	49.4	25.6	1.38	772	0.96	2.32	39.2	40.8	1390
S728307		3.86	18.50	0.15	6.8	0.052	1.45	50.6	17.6	1.13	672	0.51	2.26	32.0	36.4	1250
S728308		5.02	19.30	0.14	4.6	0.062	1.61	37.9	25.3	1.71	698	0.81	1.88	27.4	67.3	840
S728309		5.35	18.85	0.17	4.2	0.069	1.31	34.4	21.7	2.09	845	0.43	2.10	22.3	84.1	1010
S728310		4.57	19.65	0.14	5.1	0.051	1.68	42.4	21.9	1.55	786	0.54	2.27	38.2	54.6	1170
S728311		4.38	19.50	0.19	5.3	0.060	1.53	44.4	20.2	1.46	730	0.61	2.28	35.6	53.2	1250



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728272		14.9	73.3	<0.002	0.01	0.34	21.5	1	1.7	234	1.47	<0.05	9.82	0.647	1.9
S728273		10.1	43.6	<0.002	0.01	0.57	27.5	1	1.4	267	1.22	<0.05	7.17	0.688	1.5
S728274		12.5	59.7	<0.002	0.01	0.24	21.1	1	1.7	247	2.00	<0.05	9.89	0.805	2.4
S728275		12.3	54.2	<0.002	<0.01	0.25	19.3	1	1.6	295	1.66	<0.05	8.93	0.722	2.0
S728276		12.3	56.6	0.002	<0.01	0.22	17.6	1	1.5	283	1.70	<0.05	9.19	0.704	1.9
S728277		12.3	45.9	<0.002	0.01	0.56	22.4	1	1.3	290	1.06	<0.05	7.66	0.526	1.5
S728278		15.0	67.5	<0.002	0.01	0.59	24.1	2	1.6	258	1.25	0.07	9.56	0.589	2.1
S728279		12.8	48.0	<0.002	0.01	0.48	20.8	1	1.3	314	1.16	0.05	8.08	0.601	1.8
S728280		14.8	73.7	<0.002	0.01	0.29	19.6	1	1.6	232	1.49	<0.05	9.88	0.643	2.0
S728281		10.8	41.5	<0.002	<0.01	0.38	24.9	1	1.4	318	1.25	<0.05	7.98	0.693	1.6
S728282		12.7	54.0	<0.002	0.01	0.29	16.7	1	1.3	319	0.84	<0.05	8.76	0.474	1.5
S728283		13.2	58.6	<0.002	0.01	0.41	21.3	1	1.3	289	0.96	<0.05	11.45	0.495	1.6
S728284		9.0	42.5	<0.002	0.01	0.26	27.9	1	1.1	252	0.80	<0.05	6.23	0.601	1.3
S728285		11.1	45.5	<0.002	<0.01	0.31	26.3	1	1.4	277	1.45	<0.05	8.00	0.631	1.8
S728286		13.0	58.9	<0.002	0.01	0.26	20.3	1	1.6	271	1.85	<0.05	9.91	0.685	2.6
S728287		12.8	58.8	<0.002	0.01	0.46	21.8	1	1.4	247	1.28	<0.05	8.16	0.611	1.9
S728288		11.9	50.1	<0.002	0.01	0.91	26.9	1	1.5	264	1.21	0.07	6.81	0.648	1.9
S728289		62.2	70.1	0.005	0.08	23.0	30.1	14	4.4	184.0	0.97	1.80	7.77	0.526	3.4
S728290		18.3	61.1	<0.002	0.01	0.39	19.2	1	1.8	275	2.26	<0.05	13.05	0.709	2.3
S728291		7.5	43.3	<0.002	<0.01	0.09	6.7	<1	0.5	377	0.26	<0.05	2.02	0.176	0.3
S728292		13.8	51.8	<0.002	0.01	1.00	20.1	1	1.7	282	1.62	0.06	9.11	0.636	2.0
S728293		14.6	56.9	<0.002	0.01	0.67	20.5	1	1.6	265	1.80	0.05	11.00	0.703	2.0
S728294		13.0	53.4	<0.002	0.01	0.39	18.5	1	1.8	271	1.69	<0.05	8.88	0.673	1.9
S728295		13.2	55.3	<0.002	<0.01	0.44	20.4	1	1.9	335	2.41	<0.05	12.35	0.744	2.1
S728296		13.5	63.5	<0.002	0.01	0.41	21.4	1	1.6	268	1.54	<0.05	9.38	0.696	1.9
S728297		23.0	122.0	<0.002	0.06	0.60	23.7	2	2.1	155.5	1.33	0.05	20.1	0.567	2.9
S728298		12.5	56.3	<0.002	0.01	0.39	18.7	1	1.4	339	0.94	<0.05	9.19	0.486	1.6
S728299		13.3	58.9	<0.002	0.01	0.39	22.3	1	1.8	299	1.83	<0.05	8.75	0.792	1.8
S728300		8.5	41.9	<0.002	0.01	0.50	27.1	1	1.4	336	1.13	<0.05	5.49	0.625	1.5
S728301		8.5	39.2	<0.002	<0.01	0.48	27.6	1	1.4	350	1.42	<0.05	5.31	0.698	1.3
S728302		8.8	38.3	<0.002	<0.01	0.48	28.6	1	1.3	374	1.05	<0.05	5.31	0.604	1.3
S728303		9.9	42.0	<0.002	0.01	0.55	28.0	1	1.5	348	1.34	<0.05	7.89	0.671	1.4
S728304		7.6	31.1	<0.002	<0.01	0.63	33.8	1	1.2	372	0.94	<0.05	4.32	0.623	1.0
S728305		13.3	56.3	<0.002	<0.01	0.30	15.2	1	1.4	272	1.44	<0.05	8.61	0.564	1.9
S728306		15.9	64.9	<0.002	0.01	0.32	17.2	1	1.9	299	1.87	0.06	10.35	0.702	2.0
S728307		13.7	46.1	<0.002	<0.01	0.36	17.8	1	1.7	325	1.54	<0.05	10.20	0.681	1.9
S728308		12.4	60.7	<0.002	0.01	0.66	21.6	1	1.6	226	1.32	<0.05	9.37	0.616	1.9
S728309		10.1	43.2	<0.002	0.01	0.62	27.2	1	1.5	254	1.18	<0.05	7.03	0.638	1.4
S728310		13.9	56.6	<0.002	0.01	0.47	20.2	1	1.7	302	2.15	0.05	13.20	0.553	2.7
S728311		12.5	52.1	<0.002	0.01	0.43	19.3	1	1.7	295	1.59	<0.05	10.10	0.665	1.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
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 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728272		140	0.8	24.0	109	180.5
S728273		165	0.8	24.5	90	153.5
S728274		138	0.6	25.6	89	209
S728275		121	0.6	23.4	66	223
S728276		120	0.6	23.0	72	215
S728277		121	0.6	20.9	74	150.5
S728278		142	0.8	23.7	122	165.0
S728279		123	0.8	21.7	93	206
S728280		137	0.7	20.6	96	190.5
S728281		140	0.6	23.2	68	213
S728282		101	0.6	19.0	65	187.5
S728283		128	0.7	21.9	93	155.5
S728284		181	0.5	22.4	101	136.0
S728285		157	0.6	22.7	93	169.5
S728286		126	0.6	24.6	92	192.0
S728287		135	0.7	21.9	118	162.5
S728288		152	0.8	23.3	197	146.0
S728289		230	1.8	17.6	186	176.0
S728290		129	0.7	24.4	108	193.5
S728291		39	0.2	7.0	20	50.1
S728292		133	0.7	20.0	106	168.0
S728293		141	0.8	22.5	98	175.0
S728294		125	0.6	20.2	84	188.0
S728295		128	0.8	25.2	88	178.0
S728296		148	0.7	22.3	104	177.0
S728297		175	1.5	27.9	169	169.5
S728298		117	0.7	18.5	76	187.5
S728299		147	0.8	22.9	97	192.0
S728300		171	0.8	19.8	91	139.0
S728301		171	0.7	20.8	88	152.0
S728302		172	0.7	19.8	83	151.5
S728303		174	0.8	21.8	89	142.5
S728304		193	0.8	19.9	79	127.0
S728305		104	0.6	19.2	72	160.5
S728306		122	0.7	19.9	88	217
S728307		113	0.7	21.9	59	239
S728308		140	0.9	20.2	88	160.0
S728309		164	0.9	23.7	86	153.0
S728310		126	0.8	21.9	79	189.5
S728311		124	0.7	21.7	72	190.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728312		1.56	0.002	0.02	7.33	3.5	500	1.52	0.09	2.50	0.14	89.8	20.5	138	1.27	34.4
S728313		1.95	0.004	0.04	7.06	4.9	530	1.55	0.11	2.13	0.21	88.3	21.8	146	1.59	36.2
S728314		1.72	0.004	0.03	7.01	4.6	510	1.67	0.10	2.09	0.18	86.6	22.2	159	1.62	37.7
S728315		1.63	0.004	0.03	6.76	3.6	450	1.46	0.09	2.38	0.13	89.7	19.4	172	1.24	33.3
S728316		1.26	0.001	0.07	7.37	4.4	650	1.90	0.13	1.83	0.14	88.1	21.1	114	2.42	54.0
S728317		1.45	0.002	0.03	6.93	4.1	540	1.67	0.10	2.10	0.16	93.2	21.1	130	1.81	42.3
S728318		1.85	0.005	0.04	7.13	7.5	460	1.33	0.11	2.87	0.17	74.5	26.6	159	1.37	78.0
S728319		1.56	0.006	0.04	6.47	13.4	530	1.37	0.13	2.25	0.22	111.5	21.0	173	1.10	28.5



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16124063

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S728312		4.68	19.50	0.18	5.2	0.063	1.51	42.6	19.4	1.63	804	0.53	2.36	27.8	58.3
S728313		4.47	19.00	0.17	5.3	0.044	1.62	42.2	20.9	1.53	917	0.60	2.19	28.2	63.0
S728314		4.81	19.40	0.16	4.9	0.056	1.50	42.8	21.9	1.64	808	0.69	2.14	31.2	66.9
S728315		4.59	17.95	0.15	5.1	0.065	1.33	43.2	18.0	1.63	731	0.55	2.22	31.4	60.9
S728316		4.49	19.50	0.15	5.1	0.050	1.98	44.6	25.6	1.44	759	0.71	2.09	21.1	63.5
S728317		4.77	19.00	0.16	5.2	0.051	1.62	47.3	23.1	1.58	797	0.68	2.14	47.2	65.5
S728318		4.70	18.70	0.19	4.4	0.059	1.42	35.2	19.5	1.61	860	0.54	2.13	24.3	76.6
S728319		3.75	16.50	0.16	6.3	0.052	1.56	43.9	15.9	1.11	895	0.49	2.16	27.1	51.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124063

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S728312		11.8	49.9	<0.002	<0.01	0.49	20.9	1	1.6	296	1.42	<0.05	8.36	0.664	0.30
S728313		13.6	56.8	<0.002	0.01	0.46	18.5	1	1.6	280	1.49	<0.05	9.12	0.602	0.33
S728314		13.0	55.4	<0.002	0.01	0.48	20.5	1	1.7	255	1.60	<0.05	9.61	0.666	0.33
S728315		11.5	44.8	<0.002	<0.01	0.58	21.8	1	1.7	262	1.65	<0.05	8.53	0.770	0.28
S728316		16.1	72.3	<0.002	<0.01	0.39	16.5	1	1.6	291	1.18	<0.05	11.20	0.515	0.47
S728317		13.7	60.7	<0.002	<0.01	0.40	17.6	1	1.7	273	1.96	<0.05	10.00	0.655	0.36
S728318		11.3	46.9	<0.002	0.01	1.00	21.2	1	1.6	269	1.35	<0.05	7.60	0.655	0.28
S728319		14.2	46.6	<0.002	<0.01	0.82	16.0	1	1.5	316	1.51	<0.05	10.25	0.669	0.31



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728312		137	0.8	21.8	75	181.5
S728313		121	0.8	21.3	81	190.0
S728314		133	0.8	21.5	87	178.5
S728315		135	0.9	22.1	75	185.5
S728316		109	0.8	19.8	84	180.5
S728317		124	0.7	21.0	86	185.5
S728318		137	1.1	21.4	77	157.5
S728319		106	1.5	20.2	55	226



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16124063

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
DRY-22 LOG-22 LOG-24 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP22 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16127853

Project: QK-2016-FS-002

This report is for 100 Rock samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES

To: TRUE NORTH NICKEL INC,
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP22 Au ppm 0.001	Au-GRA22 Au ppm 0.05	ME-ICP61a Ag ppm 1	ME-ICP61a Al % 0.05	ME-ICP61a As ppm 50	ME-ICP61a Ba ppm 50	ME-ICP61a Be ppm 10	ME-ICP61a Bi ppm 20	ME-ICP61a Ca % 0.05	ME-ICP61a Cd ppm 10	ME-ICP61a Co ppm 10	ME-ICP61a Cr ppm 10	ME-ICP61a Cu ppm 10	ME-ICP61a Fe % 0.05
P132282		1.44	0.001		<1	3.27	<50	400	<10	<20	3.22	<10	10	50	30	4.50
P132283		1.70	0.002		<1	6.62	<50	650	<10	20	5.65	<10	40	260	140	9.44
P132284		1.47	0.009		<1	0.23	<50	<50	<10	<20	0.97	<10	<10	50	<10	0.81
P132285		0.68	0.004		<1	2.56	<50	380	<10	<20	2.09	<10	10	60	70	2.73
P132286		1.30	0.003		<1	5.75	<50	340	<10	<20	4.44	<10	20	120	80	7.07
P132287		1.34	0.001		1	0.98	<50	330	<10	<20	0.28	<10	<10	30	250	1.49
P132288		1.79	0.002		<1	7.44	<50	110	<10	<20	8.29	<10	70	40	380	11.85
P132289		1.58	<0.001		1	6.60	<50	260	<10	<20	6.02	<10	60	360	80	10.90
P132290		1.42	0.001		<1	6.81	<50	370	<10	<20	5.96	<10	70	600	90	11.05
P132291		1.47	0.002		<1	6.48	<50	190	<10	<20	6.74	<10	30	40	110	7.45
P132292		0.88	0.012		<1	5.95	<50	360	<10	<20	4.97	<10	20	10	60	11.80
P132293		1.54	0.002		<1	4.71	150	300	<10	<20	9.09	<10	40	1500	70	6.01
P132294		1.35	0.103		<1	1.55	220	100	<10	<20	15.65	<10	40	500	80	4.76
P132295		1.34	<0.001		<1	6.58	<50	160	<10	20	4.68	<10	40	90	110	10.50
P132296		1.12	0.002		<1	6.03	90	250	<10	<20	9.39	<10	30	730	70	5.92
P132578		1.43	<0.001		<1	0.91	<50	<50	<10	<20	0.15	<10	10	40	<10	2.16
P132579		1.14	<0.001		<1	0.78	<50	80	<10	20	0.05	<10	<10	30	<10	0.69
P132580		0.07	1.160		46	4.13	90	750	<10	50	1.58	140	280	30	31700	16.95
P132581		1.81	<0.001		<1	0.31	<50	<50	<10	20	<0.05	<10	<10	30	40	1.10
P132582		1.30	<0.001		<1	0.61	<50	430	<10	<20	4.44	<10	<10	10	10	0.40
P132583		0.74	<0.001		1	<0.05	<50	<50	<10	<20	<0.05	<10	<10	20	30	0.59
P132584		1.71	0.001		<1	3.26	<50	<50	<10	<20	4.28	<10	<10	30	10	3.32
P132585		0.33	0.003		<1	0.08	<50	<50	<10	<20	1.92	<10	<10	30	10	2.93
P132586		0.93	<0.001		1	0.06	<50	<50	<10	20	<0.05	<10	<10	20	<10	0.59
P132587		1.06	0.004		<1	5.10	<50	380	<10	<20	5.22	<10	30	70	140	7.27
P132588		1.24	<0.001		<1	0.37	<50	<50	<10	<20	0.09	<10	<10	30	<10	0.81
P132589		1.18	<0.001		<1	1.24	<50	200	<10	<20	0.35	<10	10	60	<10	1.90
P132590		0.79	<0.001		<1	<0.05	<50	<50	<10	<20	<0.05	<10	<10	30	<10	0.67
P132591		1.51	<0.001		<1	0.48	<50	110	<10	<20	<0.05	<10	<10	30	<10	0.75
P132592		1.36	0.019		<1	4.29	50	320	<10	<20	2.61	<10	30	20	90	9.06
P132593		1.36	0.018		1	5.65	70	60	<10	<20	1.31	<10	30	60	80	9.48
P132594		1.20	<0.001		<1	0.07	<50	<50	<10	<20	0.77	<10	<10	30	<10	2.31
P132595		1.09	0.211		2	5.35	60	70	<10	<20	7.18	<10	110	990	3340	11.00
P132933		1.30	0.001		<1	2.97	<50	100	<10	<20	2.09	<10	<10	20	30	3.11
P132934		1.58	<0.001		<1	0.06	<50	<50	<10	<20	0.68	<10	10	30	<10	4.38
P132935		1.41	0.003		<1	5.60	390	310	<10	<20	9.51	<10	60	890	100	5.88
P132936		1.48	0.006		<1	5.01	490	350	<10	20	7.18	<10	50	1010	110	4.26
P132937		1.03	0.004		<1	3.86	460	340	<10	<20	6.05	<10	40	1100	100	3.40
P132938		1.14	0.030		<1	0.13	<50	<50	<10	<20	1.16	<10	<10	40	70	3.97
P132939		1.13	0.247		<1	<0.05	160	<50	<10	<20	0.10	<10	<10	40	10	7.07

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm 50	% 0.1	ppm 50	% 0.05	ppm 10	ppm 10	% 0.05	ppm 10	ppm 50	ppm 20	% 0.05	ppm 50	ppm 10	ppm 10	ppm 10
P132282		<50	1.2	<50	0.94	840	<10	1.54	20	610	<20	<0.05	<50	10	130	<50
P132283		<50	1.7	<50	4.52	1260	<10	1.94	40	1320	<20	2.97	<50	40	70	<50
P132284		<50	0.1	<50	0.17	270	<10	<0.05	10	110	130	<0.05	<50	<10	60	<50
P132285		<50	1.0	<50	0.31	720	20	3.01	20	530	30	0.31	<50	10	150	<50
P132286		<50	1.1	<50	2.11	1160	<10	2.13	40	640	<20	0.75	<50	10	210	<50
P132287		<50	1.0	<50	0.18	290	<10	0.08	10	160	210	0.05	<50	<10	20	<50
P132288		50	0.3	<50	3.68	1580	<10	1.63	50	1210	<20	0.82	<50	30	590	<50
P132289		<50	0.3	<50	4.11	1550	<10	2.03	230	1250	<20	0.09	<50	30	180	<50
P132290		<50	0.3	<50	4.61	1730	<10	2.31	350	1170	<20	0.07	<50	30	180	<50
P132291		<50	0.4	<50	2.05	1190	<10	2.75	10	670	<20	0.31	<50	20	270	<50
P132292		<50	0.8	<50	2.95	1580	<10	2.03	10	910	<20	3.98	<50	10	220	<50
P132293		<50	0.9	<50	7.40	1000	<10	0.09	650	70	<20	<0.05	<50	30	80	<50
P132294		<50	0.7	<50	4.86	1100	<10	0.07	210	50	<20	0.98	<50	10	110	<50
P132295		<50	0.3	<50	3.23	1270	<10	2.95	70	590	<20	1.87	<50	30	50	<50
P132296		<50	1.8	<50	4.52	980	<10	0.19	290	120	<20	<0.05	<50	30	60	<50
P132578		<50	<0.1	<50	0.71	330	<10	0.08	20	190	<20	<0.05	<50	<10	10	<50
P132579		<50	0.3	<50	<0.05	180	<10	0.17	<10	<50	<20	<0.05	<50	<10	10	<50
P132580		<50	0.9	<50	1.24	670	20	0.48	20	570	6220	>10.0	70	10	40	<50
P132581		<50	0.1	<50	<0.05	90	<10	0.07	10	<50	<20	0.10	<50	<10	40	<50
P132582		<50	0.5	<50	0.30	330	<10	<0.05	<10	70	<20	0.15	<50	<10	70	<50
P132583		<50	<0.1	<50	<0.05	50	<10	<0.05	<10	<50	<20	0.05	<50	<10	<10	<50
P132584		<50	0.1	<50	1.22	380	<10	<0.05	10	200	30	<0.05	<50	<10	900	<50
P132585		<50	<0.1	<50	0.80	180	10	<0.05	20	110	20	1.72	<50	<10	10	<50
P132586		<50	<0.1	<50	<0.05	60	<10	<0.05	<10	<50	<20	<0.05	<50	<10	<10	<50
P132587		<50	2.1	<50	1.65	1170	10	2.35	10	900	<20	1.30	<50	20	240	<50
P132588		<50	0.1	<50	0.05	130	<10	0.12	<10	70	<20	<0.05	<50	<10	10	<50
P132589		<50	0.5	<50	0.26	510	<10	0.50	<10	220	20	<0.05	<50	<10	80	<50
P132590		<50	<0.1	<50	<0.05	70	<10	<0.05	<10	<50	<20	<0.05	<50	<10	<10	<50
P132591		<50	0.2	<50	<0.05	110	<10	0.07	<10	<50	<20	<0.05	<50	<10	10	<50
P132592		<50	0.5	<50	1.82	770	<10	2.67	20	870	<20	3.33	<50	20	280	<50
P132593		<50	0.2	<50	3.13	660	<10	2.11	30	850	30	2.36	<50	30	230	<50
P132594		<50	<0.1	<50	<0.05	180	<10	<0.05	10	<50	<20	0.10	<50	<10	20	<50
P132595		<50	0.5	<50	5.40	1290	<10	1.70	710	500	20	0.14	<50	30	360	<50
P132933		<50	0.1	<50	0.31	870	<10	5.67	<10	410	<20	0.62	<50	<10	400	<50
P132934		<50	<0.1	<50	0.20	220	10	<0.05	10	<50	<20	2.74	<50	<10	10	<50
P132935		<50	1.9	<50	3.79	1380	<10	0.66	400	120	<20	0.43	100	30	160	<50
P132936		<50	1.7	<50	2.68	1130	<10	1.17	340	150	<20	0.05	<50	30	150	<50
P132937		<50	1.8	<50	2.12	830	<10	1.06	340	150	<20	0.05	<50	20	120	<50
P132938		<50	<0.1	<50	0.14	440	<10	<0.05	10	<50	<20	<0.05	<50	<10	20	<50
P132939		<50	<0.1	<50	<0.05	60	<10	<0.05	30	<50	<20	1.58	<50	<10	<10	<50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
P132282		0.71	<50	<50	230	<50	60
P132283		0.89	<50	<50	280	<50	50
P132284		<0.05	<50	<50	10	<50	<20
P132285		0.40	<50	<50	90	<50	90
P132286		0.59	<50	<50	180	<50	130
P132287		<0.05	<50	<50	10	<50	100
P132288		1.25	<50	<50	450	<50	90
P132289		1.64	<50	<50	330	<50	120
P132290		1.50	<50	<50	310	<50	130
P132291		0.67	<50	<50	260	<50	80
P132292		0.70	<50	<50	220	<50	130
P132293		0.06	<50	<50	160	<50	80
P132294		<0.05	<50	<50	60	<50	50
P132295		0.76	<50	<50	340	<50	80
P132296		0.11	<50	<50	180	<50	60
P132578		<0.05	<50	<50	20	<50	20
P132579		<0.05	<50	<50	<10	<50	20
P132580		0.12	<50	<50	30	<50	24100
P132581		<0.05	<50	<50	<10	<50	20
P132582		0.06	<50	<50	<10	<50	<20
P132583		<0.05	<50	<50	<10	<50	<20
P132584		0.10	<50	<50	60	<50	30
P132585		<0.05	<50	<50	<10	<50	<20
P132586		<0.05	<50	<50	<10	<50	<20
P132587		0.33	<50	<50	230	<50	110
P132588		<0.05	<50	<50	10	<50	<20
P132589		0.05	<50	<50	30	<50	50
P132590		<0.05	<50	<50	<10	<50	<20
P132591		<0.05	<50	<50	<10	<50	<20
P132592		0.70	<50	<50	350	<50	120
P132593		0.60	<50	<50	370	<50	330
P132594		<0.05	<50	<50	<10	<50	<20
P132595		0.70	<50	<50	270	<50	190
P132933		0.14	<50	<50	<10	<50	90
P132934		<0.05	<50	<50	<10	<50	<20
P132935		0.22	<50	<50	180	<50	40
P132936		0.19	<50	<50	160	<50	50
P132937		0.20	<50	<50	150	<50	30
P132938		<0.05	<50	<50	<10	<50	20
P132939		<0.05	<50	<50	<10	<50	<20



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	Au-ICP22 Au ppm	ME-ICP61a Ag ppm	ME-ICP61a Al %	ME-ICP61a As ppm	ME-ICP61a Ba ppm	ME-ICP61a Be ppm	ME-ICP61a Bi ppm	ME-ICP61a Ca %	ME-ICP61a Cd ppm	ME-ICP61a Co ppm	ME-ICP61a Cr ppm	ME-ICP61a Cu ppm	ME-ICP61a Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132940		1.48	0.001		<1	1.40	<50	100	<10	<20	0.10	<10	110	60	250	1.95
P132950		1.19	0.023		<1	5.95	<50	150	<10	<20	6.71	<10	30	40	280	11.90
P132951		0.10	<0.001		<1	2.37	<50	360	<10	<20	1.58	<10	10	60	10	1.38
P132952		1.47	<0.001		<1	0.21	<50	70	<10	<20	<0.05	<10	<10	20	10	2.08
P132953		1.26	0.022		<1	3.37	<50	750	<10	<20	0.95	<10	10	20	360	1.86
P132954		1.29	0.204		<1	0.43	<50	60	<10	<20	0.07	<10	<10	30	10	0.63
P132955		0.99	0.017		10	1.58	<50	400	<10	70	0.12	<10	<10	30	30	2.03
P132956		1.58	0.564		69	0.08	<50	<50	<10	250	<0.05	<10	<10	40	10	1.33
P132957		1.19	0.178		9	0.16	90	<50	<10	90	<0.05	<10	<10	30	10	0.68
P132958		1.09	0.103		1	0.81	<50	130	<10	<20	0.06	<10	10	30	30	2.11
P132959		2.05	2.95		26	0.14	60	<50	<10	90	<0.05	<10	<10	30	10	1.58
P132960		1.41	>10.0	12.55	46	0.54	60	70	<10	130	<0.05	<10	<10	30	10	0.96
P132961		1.42	>10.0	26.4	19	0.33	90	<50	<10	120	<0.05	<10	10	40	30	2.01
P132962		1.55	0.989		2	1.89	70	580	<10	<20	0.32	<10	<10	20	60	1.97
P132963		1.76	1.195		2	0.71	<50	70	<10	30	0.08	<10	<10	30	10	0.76
P132964		1.23	0.029		<1	3.11	<50	640	<10	<20	0.89	<10	<10	10	30	1.93
P132965		1.20	0.054		<1	4.13	<50	70	<10	<20	1.27	<10	10	60	320	11.30
P132966		0.86	0.017		<1	0.32	470	<50	<10	<20	0.08	<10	<10	20	<10	0.70
P132967		1.11	0.053		<1	0.21	440	<50	<10	20	0.32	<10	<10	20	20	0.80
P132968		1.48	0.120		<1	5.10	<50	180	<10	<20	4.28	<10	70	710	910	8.00
P132969		1.62	0.007		<1	<0.05	50	<50	<10	<20	0.05	<10	<10	40	<10	8.71
P132970		1.80	0.007		<1	1.13	<50	110	<10	<20	<0.05	<10	<10	30	10	1.59
P132971		0.06	1.050		1	2.95	670	3150	<10	20	3.55	<10	740	30	17100	29.6
P132972		1.30	0.003		<1	3.15	<50	220	30	<20	0.23	<10	<10	10	20	4.45
P132973		1.30	0.007		<1	5.69	<50	350	<10	20	3.17	<10	40	60	90	9.07
P132974		1.56	0.009		<1	1.20	<50	400	<10	<20	0.08	<10	<10	40	10	2.26
P132975		1.82	0.004		<1	2.84	<50	90	<10	<20	9.33	<10	150	260	440	22.5
P137286		1.43	1.770		<1	4.46	11550	1270	<10	20	1.96	<10	20	50	70	3.20
P137287		1.38	0.676		<1	3.44	6910	820	<10	<20	3.01	<10	20	60	50	3.13
P137288		1.81	0.053		2	5.88	50	<50	<10	20	11.05	<10	510	1200	7510	17.15
P137289		1.54	0.121		8	7.60	<50	<50	<10	<20	11.80	<10	30	1430	14200	7.62
P137290		1.47	0.137		<1	2.36	70	<50	<10	<20	2.64	<10	80	100	1450	12.85
P137291		0.92	0.022		<1	5.06	<50	300	<10	20	3.52	10	40	130	480	12.55
P137292		1.28	0.007		<1	1.08	<50	140	<10	<20	11.80	<10	30	180	30	9.67
P137589		1.41	0.001		<1	3.84	<50	300	<10	<20	1.99	<10	20	80	30	4.30
P137590		2.39	0.001		<1	4.62	<50	190	<10	<20	7.16	<10	40	1080	140	5.59
P137591		0.77	0.002		<1	5.97	<50	220	<10	<20	4.17	<10	30	40	220	5.25
P137592		3.22	0.002		<1	4.52	<50	410	<10	20	2.28	<10	20	230	120	5.20
P137593		2.65	0.009		<1	1.35	<50	160	<10	<20	1.87	<10	20	100	620	3.55



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218

www.alsglobal.com

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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a Ga ppm 50	ME-ICP61a K % 0.1	ME-ICP61a La ppm 50	ME-ICP61a Mg % 0.05	ME-ICP61a Mn ppm 10	ME-ICP61a Mo ppm 10	ME-ICP61a Na % 0.05	ME-ICP61a Ni ppm 10	ME-ICP61a P ppm 50	ME-ICP61a Pb ppm 20	ME-ICP61a S % 0.05	ME-ICP61a Sb ppm 50	ME-ICP61a Sc ppm 10	ME-ICP61a Sr ppm 10	ME-ICP61a Th ppm 50
P132940		<50	0.3	<50	0.22	90	<10	6.19	80	250	60	1.04	<50	<10	<10	<50
P132950		<50	0.5	<50	1.77	1520	<10	0.97	30	1320	<20	0.89	<50	20	470	<50
P132951		<50	1.0	<50	0.37	270	<10	2.69	20	190	20	<0.05	<50	<10	300	<50
P132952		<50	0.1	<50	<0.05	70	<10	<0.05	<10	150	<20	0.85	<50	<10	<10	<50
P132953		<50	1.5	<50	0.24	290	20	3.30	<10	330	<20	<0.05	<50	<10	240	<50
P132954		<50	0.2	<50	<0.05	80	<10	0.09	<10	<50	<20	<0.05	<50	<10	10	<50
P132955		<50	1.3	<50	0.22	240	<10	1.28	<10	330	270	0.05	<50	<10	40	<50
P132956		<50	<0.1	<50	<0.05	80	<10	<0.05	<10	<50	450	<0.05	<50	<10	<10	<50
P132957		<50	0.1	<50	<0.05	50	<10	<0.05	<10	<50	230	0.07	<50	<10	<10	<50
P132958		<50	0.4	<50	<0.05	120	<10	0.50	10	130	20	1.14	<50	<10	20	<50
P132959		<50	0.1	<50	<0.05	40	<10	<0.05	<10	<50	1690	1.15	<50	<10	<10	<50
P132960		<50	0.2	<50	<0.05	50	<10	0.12	<10	<50	2890	0.25	<50	<10	10	<50
P132961		<50	0.1	<50	<0.05	50	<10	0.14	<10	60	680	1.31	50	<10	<10	<50
P132962		<50	1.9	<50	0.14	250	10	2.47	10	500	110	0.45	<50	<10	50	<50
P132963		<50	0.2	<50	<0.05	90	<10	0.42	<10	70	90	0.13	<50	<10	10	<50
P132964		<50	2.1	<50	0.25	420	10	2.47	<10	420	30	0.35	<50	<10	90	<50
P132965		<50	0.7	<50	0.86	520	<10	<0.05	30	700	20	2.81	<50	10	50	<50
P132966		<50	0.1	<50	0.07	80	<10	0.11	<10	70	<20	<0.05	<50	<10	10	<50
P132967		<50	<0.1	<50	0.11	120	<10	0.07	10	<50	<20	<0.05	<50	<10	<10	<50
P132968		<50	0.1	<50	7.42	1140	<10	0.86	1230	1200	20	0.27	<50	20	360	<50
P132969		<50	0.1	<50	<0.05	110	<10	<0.05	<10	170	<20	0.56	<50	<10	<10	<50
P132970		<50	0.4	<50	<0.05	30	10	3.11	<10	60	<20	0.09	<50	<10	10	<50
P132971		<50	2.4	260	1.00	4820	320	0.28	70	960	40	3.99	<50	10	240	<50
P132972		50	1.4	210	0.55	720	<10	1.93	<10	80	40	0.20	<50	<10	40	50
P132973		<50	0.9	<50	3.67	540	<10	1.11	20	760	<20	5.67	<50	30	60	<50
P132974		<50	2.2	50	0.09	60	10	1.07	<10	100	40	2.01	<50	<10	20	<50
P132975		<50	0.2	80	3.72	1790	<10	0.33	710	12450	<20	1.83	<50	10	80	<50
P137286		<50	4.1	<50	0.73	490	<10	0.64	30	1160	<20	0.90	<50	10	160	<50
P137287		<50	2.4	<50	0.94	590	<10	0.99	20	1080	30	0.67	<50	<10	190	<50
P137288		<50	0.1	<50	2.59	790	<10	0.13	1210	140	<20	7.93	<50	30	240	<50
P137289		<50	<0.1	<50	1.84	660	30	0.45	70	450	<20	1.06	<50	50	640	<50
P137290		<50	<0.1	<50	1.49	770	<10	<0.05	20	1660	<20	7.36	<50	20	80	<50
P137291		<50	1.2	<50	1.90	1540	<10	2.76	160	640	60	5.22	<50	20	240	<50
P137292		<50	0.2	50	4.41	2690	<10	0.05	140	2750	<20	0.25	<50	10	330	<50
P137589		<50	1.0	<50	0.37	720	<10	2.65	20	480	20	0.11	<50	10	170	<50
P137590		<50	0.6	<50	8.78	1210	<10	0.34	310	100	<20	1.57	<50	30	40	<50
P137591		<50	0.3	<50	1.97	690	<10	4.20	50	1220	<20	0.62	<50	10	440	<50
P137592		<50	0.6	<50	3.07	890	<10	1.14	90	730	<20	0.69	<50	10	150	<50
P137593		<50	0.3	<50	0.87	430	<10	0.43	50	290	<20	1.84	<50	<10	70	<50



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
P132940		0.39	<50	<50	130	<50	380
P132950		0.49	<50	<50	230	<50	160
P132951		0.15	<50	<50	40	<50	30
P132952		<0.05	<50	<50	10	<50	<20
P132953		0.16	<50	<50	30	<50	40
P132954		<0.05	<50	<50	<10	<50	<20
P132955		0.13	<50	<50	30	<50	220
P132956		<0.05	<50	<50	<10	<50	50
P132957		<0.05	<50	<50	<10	<50	<20
P132958		<0.05	<50	<50	10	<50	20
P132959		<0.05	<50	<50	<10	<50	20
P132960		<0.05	<50	<50	<10	<50	30
P132961		<0.05	<50	<50	<10	<50	20
P132962		0.15	<50	<50	20	<50	130
P132963		<0.05	<50	<50	<10	310	30
P132964		0.17	<50	<50	20	<50	80
P132965		0.20	<50	<50	80	<50	80
P132966		<0.05	<50	<50	10	<50	<20
P132967		<0.05	<50	<50	<10	<50	<20
P132968		0.46	<50	<50	130	<50	100
P132969		<0.05	<50	<50	20	<50	20
P132970		0.06	<50	<50	20	<50	<20
P132971		0.29	<50	<50	110	190	40
P132972		0.21	<50	<50	<10	<50	450
P132973		0.48	<50	<50	310	<50	40
P132974		0.07	<50	<50	<10	<50	120
P132975		2.13	<50	<50	230	<50	120
P137286		0.34	<50	<50	110	<50	20
P137287		0.31	<50	<50	120	<50	30
P137288		0.17	<50	<50	150	<50	80
P137289		0.36	<50	<50	220	<50	200
P137290		0.12	<50	<50	100	<50	40
P137291		0.59	<50	<50	250	<50	2420
P137292		0.78	<50	<50	120	<50	80
P137589		0.36	<50	<50	130	<50	60
P137590		0.17	<50	<50	180	<50	110
P137591		0.52	<50	<50	170	<50	80
P137592		0.24	<50	<50	70	<50	130
P137593		0.10	<50	<50	20	<50	40



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP22 Au ppm 0.001	Au-GRA22 Au ppm 0.05	ME-ICP61a Ag ppm 1	ME-ICP61a Al % 0.05	ME-ICP61a As ppm 50	ME-ICP61a Ba ppm 50	ME-ICP61a Be ppm 10	ME-ICP61a Bi ppm 20	ME-ICP61a Ca % 0.05	ME-ICP61a Cd ppm 10	ME-ICP61a Co ppm 10	ME-ICP61a Cr ppm 10	ME-ICP61a Cu ppm 10	ME-ICP61a Fe % 0.05
P137594		1.00	0.031		<1	0.98	50	100	<10	<20	0.05	<10	<10	50	120	2.28
P137595		1.11	0.003		<1	0.99	<50	260	<10	<20	0.13	<10	10	30	70	0.74
P137596		0.87	<0.001		<1	2.50	<50	240	<10	<20	2.43	<10	20	60	<10	4.41
P137597		0.71	0.006		<1	5.18	<50	<50	<10	<20	2.13	<10	20	180	120	20.7
P137598		1.17	0.092		1	3.81	<50	100	<10	<20	0.37	10	30	130	700	16.05
P137599		1.50	0.003		<1	3.55	<50	100	<10	20	6.20	<10	30	80	470	9.88
P137600		0.10	0.001		<1	2.46	<50	360	<10	<20	1.56	<10	10	40	10	1.39
P137601		1.03	<0.001		<1	3.13	<50	410	<10	<20	2.83	<10	10	10	130	4.65
P137602		0.74	0.090		6	0.33	<50	<50	<10	20	0.14	<10	<10	40	18300	2.68
P137603		0.96	0.001		<1	2.52	660	170	<10	<20	4.09	<10	60	950	90	6.17
P137604		2.24	0.605		<1	4.47	10050	420	<10	<20	2.40	<10	30	20	130	6.36
P137605		1.74	0.001		<1	1.21	<50	240	<10	<20	0.15	<10	10	40	250	2.04
P137606		1.26	0.002		<1	4.16	<50	390	<10	<20	2.89	<10	20	30	190	7.48
P137607		1.20	0.001		<1	0.69	<50	<50	<10	<20	0.65	<10	<10	50	20	1.24
P137608		0.74	0.007		1	4.21	<50	90	<10	<20	10.25	<10	50	840	960	4.56
P137609		1.00	0.024		<1	2.48	300	<50	<10	<20	13.75	<10	50	780	70	4.73
P137610		0.87	0.004		<1	4.72	470	520	<10	<20	10.40	<10	70	570	80	5.14
P137611		1.46	0.001		<1	4.15	110	250	<10	<20	10.90	<10	30	500	10	4.67
P137612		1.05	<0.001		1	4.93	70	210	<10	<20	9.42	<10	40	460	20	6.19
P137613		Not Recvd														



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm 50	% 0.1	ppm 50	% 0.05	ppm 10	ppm 10	% 0.05	ppm 10	ppm 50	ppm 20	% 0.05	ppm 50	ppm 10	ppm 10	ppm 10
P137594		<50	0.3	<50	<0.05	30	<10	2.72	<10	170	20	2.47	<50	<10	30	<50
P137595		<50	0.8	<50	<0.05	60	<10	5.49	<10	260	<20	0.44	<50	<10	80	<50
P137596		<50	0.5	<50	0.96	650	<10	1.34	10	290	<20	<0.05	<50	10	130	<50
P137597		<50	0.2	<50	2.59	23900	<10	0.05	60	5190	<20	0.56	<50	20	20	<50
P137598		<50	0.3	<50	1.26	1090	10	2.60	530	1130	30	8.41	<50	10	40	<50
P137599		<50	0.4	<50	4.61	1520	<10	0.46	60	440	<20	2.62	<50	30	180	<50
P137600		<50	1.1	<50	0.40	250	<10	2.74	20	170	20	<0.05	<50	<10	300	<50
P137601		<50	1.0	<50	0.48	540	<10	3.56	<10	1490	<20	1.23	<50	<10	510	<50
P137602		<50	0.1	<50	0.10	130	<10	0.05	<10	150	<20	1.37	<50	<10	10	<50
P137603		<50	1.0	<50	7.70	1030	<10	0.13	670	180	<20	0.08	<50	20	100	<50
P137604		<50	1.9	<50	1.29	920	<10	0.78	10	850	<20	1.14	<50	20	150	<50
P137605		<50	0.7	<50	0.14	90	<10	1.17	<10	530	30	0.48	<50	<10	100	<50
P137606		<50	1.3	<50	1.55	920	<10	1.14	10	770	<20	1.10	<50	20	240	<50
P137607		<50	<0.1	<50	0.18	170	<10	0.13	<10	70	<20	<0.05	<50	<10	40	<50
P137608		<50	1.0	<50	4.69	1420	<10	2.23	400	370	<20	0.53	<50	20	240	<50
P137609		<50	0.3	<50	7.13	1660	<10	1.33	550	390	<20	0.23	<50	10	360	<50
P137610		<50	1.7	<50	3.38	1450	<10	0.74	510	200	<20	0.23	<50	30	310	<50
P137611		<50	1.0	<50	5.37	1350	<10	1.45	100	160	<20	<0.05	<50	50	410	<50
P137612		<50	0.8	<50	5.82	1350	<10	1.42	110	240	<20	<0.05	<50	50	570	<50
P137613																



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127853

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		% 0.05	ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
P137594		<0.05	<50	<50	<10	<50	<20
P137595		<0.05	<50	<50	10	<50	<20
P137596		0.20	<50	<50	190	<50	50
P137597		0.32	<50	<50	150	<50	260
P137598		0.35	<50	<50	320	<50	1450
P137599		0.40	<50	<50	250	80	110
P137600		0.15	<50	<50	40	<50	20
P137601		0.46	<50	<50	40	<50	60
P137602		0.05	<50	<50	10	<50	<20
P137603		0.32	<50	<50	140	<50	90
P137604		0.58	<50	<50	200	60	70
P137605		0.08	<50	<50	10	<50	20
P137606		0.62	<50	<50	250	<50	80
P137607		0.06	<50	<50	30	<50	<20
P137608		0.24	<50	<50	140	<50	40
P137609		0.21	<50	<50	100	<50	30
P137610		0.19	<50	<50	150	<50	70
P137611		0.35	<50	<50	210	<50	50
P137612		0.46	<50	<50	260	<50	50
P137613							

***** See Appendix Page for comments regarding this certificate *****



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127853

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	PUL-31	PUL-QC	SPL-21	WEI-21
	WSH-21	WSH-22		
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-GRA22	Au-ICP22	ME-ICP61a	



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE VO16127858

Project: QK-2016-TS-002

This report is for 132 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127858

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726728		1.06	0.011	0.09	7.16	67.9	490	1.55	0.34	1.79	0.15	72.3	29.6	274	2.01	77.4
S726729		1.08	0.002	0.03	7.18	16.5	470	1.38	0.14	1.81	0.09	72.9	32.6	313	1.67	52.1
S726730		0.04	0.402	0.54	7.63	36.4	2900	2.98	6.01	0.63	0.37	91.9	15.0	21	6.91	1490
S726731		1.09	0.006	0.07	6.90	11.9	400	1.13	0.16	2.49	0.19	66.6	44.8	482	1.65	77.0
S726732		1.04	0.004	0.09	4.77	4.7	20	0.23	0.07	3.97	0.05	17.80	113.5	1300	2.74	111.5
S726733		0.95	0.004	0.08	6.52	15.4	250	0.86	0.10	2.75	0.18	38.4	70.9	879	2.22	114.0
S726734		0.73	0.004	0.07	7.42	17.2	580	1.68	0.13	1.82	0.23	86.6	26.1	131	1.83	60.6
S726735		0.85	0.020	0.11	7.25	79.7	530	1.65	0.13	1.78	0.18	86.7	36.8	343	2.39	74.0
S726736		1.13	0.003	0.04	5.64	17.1	180	0.77	0.07	3.52	0.09	40.6	70.8	1020	1.88	87.3
S726737		0.94	0.006	0.10	6.30	16.2	290	0.96	0.15	2.23	0.14	49.4	60.9	864	2.97	113.0
S726738		1.05	0.005	0.08	5.49	16.3	170	0.62	0.12	3.96	0.09	31.4	76.5	949	6.22	133.5
S726739		0.93	0.005	0.07	5.39	13.3	120	0.61	0.06	3.68	0.11	27.6	80.2	1120	1.23	113.5
S726740		0.98	0.003	0.07	7.01	6.4	500	1.71	0.10	1.89	0.09	88.2	18.6	151	1.83	43.5
S726741		1.20	0.005	0.15	7.20	26.1	360	1.10	0.10	1.30	0.16	49.7	52.0	647	1.20	87.8
S726742		0.79	0.002	0.05	7.67	8.8	510	1.66	0.13	1.83	0.11	85.6	26.8	132	2.16	63.8
S726743		1.02	0.004	0.11	7.85	10.3	510	1.51	0.12	2.01	0.14	74.6	27.4	137	2.06	70.8
S726744		0.84	0.008	0.07	7.33	10.9	430	1.11	0.08	2.20	0.17	64.6	31.4	178	1.31	69.9
S726745		0.98	0.002	0.03	7.45	7.0	480	1.61	0.10	2.15	0.13	77.2	23.7	116	1.34	39.4
S726746		1.14	0.003	0.07	7.38	8.4	490	1.50	0.11	2.15	0.17	84.4	27.0	142	1.57	52.2
S726747		0.73	0.003	0.04	7.15	5.6	470	1.33	0.10	2.55	0.22	86.9	22.6	116	0.99	28.0
S726748		1.22	0.002	0.08	7.71	9.7	550	1.80	0.13	1.86	0.22	91.5	24.6	87	2.11	54.2
S726749		0.98	0.002	0.04	7.32	4.8	410	1.47	0.07	2.63	0.14	97.8	22.7	90	0.93	43.3
S726750		0.09	<0.001	0.04	6.56	0.4	410	1.08	0.05	1.95	0.03	19.85	5.9	40	0.82	7.7
S726751		0.98	0.001	0.05	7.27	5.0	480	1.31	0.07	2.35	0.14	79.3	19.7	81	1.10	34.2
S726752		1.14	0.001	0.10	7.86	7.7	490	1.48	0.08	2.16	0.18	77.3	30.0	144	1.74	75.7
S726753		0.83	0.003	0.08	7.72	8.8	490	1.69	0.10	2.47	0.17	84.0	32.1	135	1.82	83.3
S726754		1.01	0.002	0.06	7.86	6.7	510	1.47	0.11	2.14	0.13	85.6	26.2	119	1.84	70.3
S726755		0.98	0.002	0.05	7.50	5.6	530	1.55	0.09	2.03	0.09	94.2	22.6	94	1.78	51.5
S726756		0.87	0.006	0.22	7.02	48.4	210	0.92	0.07	1.05	0.25	30.2	77.2	1180	0.75	170.0
S726757		1.13	0.034	0.02	6.79	7.6	430	1.33	0.14	2.25	0.08	69.1	24.6	199	1.33	46.7
S726758		1.14	0.003	0.04	6.94	9.6	430	1.22	0.19	2.40	0.11	66.1	28.5	255	1.29	58.1
S726759		1.04	0.006	0.06	6.78	9.3	410	1.23	0.14	2.19	0.13	64.9	32.0	357	1.26	51.5
S726760		0.80	0.003	0.04	6.68	14.4	420	1.15	0.18	2.34	0.14	66.1	28.8	269	1.05	51.0
S726761		1.02	0.006	0.03	6.82	4.9	410	1.36	0.09	2.74	0.14	70.6	26.8	230	1.12	63.6
S726762		0.95	0.002	0.05	7.17	16.0	490	1.36	0.11	2.61	0.19	83.2	28.0	220	1.55	81.0
S726763		0.86	0.004	0.07	6.60	19.3	340	0.97	0.14	2.49	0.15	47.8	46.9	589	1.61	79.0
S726764		0.82	0.027	0.04	7.00	7.9	420	1.09	0.11	2.63	0.14	52.9	33.5	310	1.34	66.4
S726765		0.97	0.006	0.04	6.77	5.6	450	1.23	0.09	2.48	0.14	64.0	24.5	212	1.17	57.6
S726766		0.95	0.003	0.04	7.32	4.8	490	1.20	0.08	2.57	0.12	63.3	25.3	192	1.64	69.9
S726767		1.18	0.003	0.05	6.83	5.4	480	1.09	0.10	2.92	0.12	56.6	36.6	465	2.79	70.1



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
S726728		5.47	20.9	0.18	4.5	0.060	1.49	34.5	26.8	2.44	1100	1.12	1.80	22.6	155.5	930
S726729		5.71	20.6	0.18	4.4	0.061	1.42	32.4	25.4	2.70	981	0.80	1.87	22.0	164.5	950
S726730		4.18	27.3	0.18	7.2	0.682	3.00	45.7	19.6	0.27	374	3.34	2.53	18.9	10.8	280
S726731		6.38	19.75	0.17	4.1	0.062	1.25	33.1	22.6	3.93	1180	0.66	1.58	16.8	273	820
S726732		8.84	15.55	0.15	1.5	0.045	0.06	8.1	17.7	13.10	1140	0.11	0.11	2.1	1220	440
S726733		7.92	19.25	0.16	2.8	0.059	0.78	17.7	25.6	7.85	1800	0.36	1.02	10.3	633	650
S726734		5.35	21.6	0.17	5.2	0.067	1.59	43.0	25.6	1.46	1010	0.94	2.01	28.7	57.8	1250
S726735		6.13	22.5	0.17	4.7	0.069	1.61	41.6	28.5	2.80	1140	0.93	1.87	42.1	184.5	1250
S726736		7.72	16.85	0.13	2.5	0.054	0.56	19.1	23.9	8.74	1200	0.34	0.89	16.3	708	640
S726737		7.10	18.40	0.14	3.5	0.052	0.85	24.6	23.2	6.54	1340	0.40	1.31	12.6	554	730
S726738		7.64	16.10	0.12	2.5	0.061	0.55	15.4	20.9	8.86	1200	0.29	0.95	8.7	744	570
S726739		8.15	16.10	0.13	2.4	0.051	0.38	13.8	20.1	9.86	1280	0.28	0.66	8.7	853	570
S726740		4.65	20.7	0.16	6.0	0.065	1.55	50.5	24.0	1.50	606	0.83	2.11	35.0	64.9	1230
S726741		7.24	21.2	0.15	3.5	0.068	1.12	23.4	25.5	4.12	1160	0.66	1.45	16.8	411	830
S726742		5.67	22.0	0.17	4.5	0.070	1.53	34.0	28.4	1.82	963	0.95	1.91	26.4	66.9	960
S726743		5.70	22.0	0.17	4.6	0.075	1.55	34.4	25.3	1.92	967	0.77	1.90	24.3	69.5	820
S726744		5.30	19.55	0.16	3.9	0.058	1.32	30.2	19.2	2.22	925	0.62	2.18	19.4	98.9	910
S726745		5.20	21.1	0.16	4.7	0.067	1.40	35.5	20.7	1.64	784	0.66	2.14	27.3	50.6	1000
S726746		5.21	20.9	0.17	4.4	0.067	1.49	39.4	22.5	1.89	873	0.98	2.09	23.8	75.3	1150
S726747		4.66	19.75	0.17	5.2	0.063	1.39	36.4	16.6	1.50	961	0.50	2.28	23.2	53.8	1070
S726748		5.40	22.9	0.18	4.9	0.071	1.70	44.0	26.5	1.46	898	0.98	2.03	28.6	45.1	1220
S726749		5.54	20.9	0.19	5.6	0.076	1.16	43.2	16.5	1.43	1090	0.48	2.12	30.6	37.5	1340
S726750		1.55	15.75	0.15	1.7	0.017	1.31	9.4	7.6	0.53	255	0.08	2.87	3.1	21.6	280
S726751		4.78	20.2	0.18	4.9	0.063	1.40	35.9	16.9	1.28	832	0.47	2.25	37.5	35.1	1210
S726752		6.15	22.6	0.19	4.4	0.069	1.39	36.7	23.6	2.09	1150	0.77	1.93	28.0	80.0	1180
S726753		6.66	22.8	0.19	4.5	0.079	1.43	41.4	26.4	2.25	1110	0.93	1.89	30.9	74.3	1320
S726754		5.58	22.5	0.16	4.4	0.067	1.55	40.9	25.0	1.81	768	0.73	2.14	27.9	58.8	1230
S726755		4.97	21.4	0.18	5.0	0.063	1.61	43.8	23.4	1.50	848	0.75	2.22	26.6	45.7	1150
S726756		9.22	19.25	0.14	2.7	0.073	0.46	14.7	18.0	7.96	1600	0.64	0.57	13.8	712	630
S726757		5.32	18.75	0.15	4.2	0.062	1.23	30.8	20.8	1.97	886	0.63	2.05	23.6	82.5	920
S726758		5.59	18.55	0.16	3.9	0.064	1.21	31.3	20.4	2.44	946	0.61	1.96	39.3	120.0	1050
S726759		5.64	18.60	0.16	3.8	0.060	1.18	30.8	21.5	2.83	978	0.48	1.94	19.5	190.0	950
S726760		5.26	18.20	0.15	3.8	0.057	1.18	29.7	17.6	2.47	947	0.50	2.05	18.2	145.0	1010
S726761		5.77	18.50	0.15	3.7	0.063	1.14	32.8	18.5	2.23	1050	0.57	1.99	24.7	91.7	1070
S726762		5.65	19.45	0.16	4.9	0.059	1.35	37.6	21.4	2.23	1040	0.55	2.04	23.3	99.1	1120
S726763		6.67	17.30	0.13	3.3	0.060	1.02	21.2	21.2	4.58	1110	0.49	1.54	18.1	365	840
S726764		6.02	17.80	0.14	3.1	0.056	1.14	24.6	19.7	3.12	979	0.43	1.91	17.5	169.0	750
S726765		4.94	17.35	0.16	3.4	0.049	1.29	30.4	17.5	2.13	843	0.49	2.09	20.4	87.9	950
S726766		5.54	17.55	0.16	3.6	0.062	1.46	30.3	18.6	2.18	987	0.34	2.19	15.5	87.3	1000
S726767		5.94	17.45	0.15	3.5	0.055	1.38	26.7	24.8	4.46	1020	0.45	1.63	12.6	220	920



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726728		15.5	58.5	<0.002	0.02	0.80	20.2	1	1.7	232	1.01	0.07	8.17	0.559	1.7
S726729		13.9	60.3	0.002	0.02	0.78	21.4	1	1.6	229	1.00	0.08	6.79	0.610	1.5
S726730		32.7	148.5	<0.002	0.07	2.07	5.5	3	4.2	166.0	1.29	0.07	15.15	0.122	5.2
S726731		10.5	52.1	0.002	0.01	0.74	25.3	2	1.6	197.5	0.90	0.07	6.20	0.635	1.2
S726732		1.7	4.4	<0.002	0.01	0.27	21.0	1	0.5	41.0	0.14	<0.05	0.46	0.290	0.1
S726733		6.5	33.8	<0.002	0.01	0.93	32.8	1	1.1	119.5	0.54	<0.05	3.01	0.614	0.6
S726734		14.0	60.1	<0.002	0.03	1.98	22.5	1	1.6	252	1.33	0.09	9.25	0.578	1.9
S726735		14.6	55.2	<0.002	0.01	3.88	22.9	1	1.6	226	2.56	0.09	9.41	0.625	3.5
S726736		5.0	27.3	<0.002	0.01	0.84	29.9	1	0.9	105.5	0.72	<0.05	4.04	0.569	0.9
S726737		8.0	41.8	<0.002	0.02	1.27	29.6	1	1.1	168.0	0.63	0.05	4.49	0.559	0.8
S726738		5.0	35.0	<0.002	0.01	0.62	30.1	1	0.9	128.5	0.48	<0.05	2.38	0.741	0.5
S726739		3.4	18.0	<0.002	0.01	0.54	31.6	1	0.8	82.0	0.43	<0.05	2.17	0.555	0.4
S726740		13.1	58.6	<0.002	0.01	0.59	19.1	1	1.7	282	1.50	0.05	11.15	0.612	2.3
S726741		9.0	25.2	<0.002	0.01	1.40	29.4	1	1.2	180.0	0.82	0.06	4.58	0.537	1.0
S726742		14.1	63.1	<0.002	0.02	0.88	21.5	1	1.7	245	1.32	<0.05	8.91	0.597	1.6
S726743		13.1	52.8	<0.002	0.02	1.14	23.6	1	1.6	250	1.38	0.08	8.29	0.593	1.9
S726744		10.1	38.2	<0.002	<0.01	1.19	24.1	1	1.4	246	0.95	<0.05	5.98	0.641	1.3
S726745		11.5	44.7	<0.002	0.01	0.93	22.4	1	1.6	285	1.25	<0.05	7.05	0.656	1.5
S726746		12.5	55.2	<0.002	<0.01	0.88	22.0	1	1.6	266	1.21	0.05	8.51	0.626	1.6
S726747		11.7	42.3	<0.002	<0.01	0.95	21.5	1	1.6	317	1.16	<0.05	7.43	0.680	1.5
S726748		14.9	70.7	<0.002	0.01	0.84	19.8	2	1.8	287	1.35	<0.05	10.35	0.585	2.1
S726749		11.7	38.4	<0.002	<0.01	1.06	24.9	1	1.7	335	1.27	<0.05	7.89	0.728	1.7
S726750		7.6	52.4	<0.002	<0.01	0.08	6.5	1	0.5	401	0.24	<0.05	1.30	0.171	0.4
S726751		12.1	46.3	<0.002	<0.01	0.76	20.8	1	1.6	330	1.51	<0.05	8.31	0.611	2.1
S726752		12.5	54.3	<0.002	0.01	0.84	23.7	1	1.7	268	1.10	<0.05	10.10	0.638	1.9
S726753		11.4	51.3	<0.002	0.01	0.80	24.3	1	1.7	286	1.63	<0.05	7.73	0.755	1.7
S726754		13.5	59.0	<0.002	<0.01	0.70	22.1	1	1.7	279	1.28	<0.05	8.94	0.639	1.8
S726755		14.1	60.4	<0.002	0.01	0.51	18.9	1	1.6	293	1.23	<0.05	9.35	0.594	1.9
S726756		8.2	19.2	<0.002	0.01	2.12	37.9	1	1.0	81.4	0.48	0.34	2.76	0.604	0.6
S726757		10.9	45.2	<0.002	0.01	0.60	22.3	1	1.4	268	1.05	<0.05	6.55	0.600	1.3
S726758		10.9	41.4	<0.002	0.01	0.90	23.8	1	1.4	272	1.53	0.08	10.75	0.572	2.1
S726759		10.4	41.8	<0.002	0.01	0.71	23.3	1	1.2	266	1.01	0.05	5.94	0.562	1.2
S726760		10.7	35.8	<0.002	0.01	0.79	22.9	1	1.3	281	0.92	0.09	5.46	0.602	1.2
S726761		9.1	38.5	<0.002	0.01	0.69	24.8	1	1.5	285	1.13	<0.05	5.46	0.648	1.2
S726762		11.9	48.2	<0.002	0.01	0.61	22.9	1	1.4	299	1.19	<0.05	8.14	0.603	1.7
S726763		9.0	37.9	<0.002	0.01	1.06	26.8	1	1.2	218	0.79	0.06	4.20	0.530	0.9
S726764		9.2	38.4	<0.002	<0.01	0.70	27.8	1	1.3	299	0.82	0.06	4.95	0.546	1.0
S726765		11.0	43.8	<0.002	<0.01	0.55	22.7	1	1.3	314	0.97	<0.05	5.68	0.565	1.2
S726766		9.8	47.9	<0.002	<0.01	0.63	25.6	1	1.2	363	0.72	<0.05	5.59	0.530	1.1
S726767		9.7	56.4	0.002	<0.01	0.54	27.3	1	1.2	295	0.66	<0.05	5.80	0.461	1.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S726728		134	0.9	21.2	102	171.0
S726729		147	0.8	19.4	96	159.0
S726730		10	2.9	16.4	143	267
S726731		165	0.9	22.9	98	151.5
S726732		207	0.1	16.8	81	61.5
S726733		201	0.5	20.5	102	98.4
S726734		139	0.9	23.7	108	186.5
S726735		152	1.3	23.8	111	173.5
S726736		186	0.3	18.8	87	92.1
S726737		181	0.7	20.5	88	116.5
S726738		202	0.4	22.0	77	93.4
S726739		199	0.3	18.1	84	80.2
S726740		124	0.7	23.6	81	211
S726741		197	0.9	19.4	102	133.0
S726742		149	0.8	21.5	97	163.0
S726743		160	0.9	24.0	95	166.0
S726744		156	0.9	23.5	82	137.0
S726745		152	0.7	23.7	85	175.0
S726746		148	0.8	24.4	93	165.0
S726747		141	0.9	24.4	73	189.0
S726748		137	0.7	24.7	107	182.0
S726749		162	0.7	28.3	83	209
S726750		40	0.2	7.0	20	69.4
S726751		133	0.7	24.7	76	182.0
S726752		164	0.8	26.5	106	169.5
S726753		179	0.8	25.7	113	176.5
S726754		157	0.7	23.8	101	167.0
S726755		135	0.6	22.1	85	179.5
S726756		245	0.3	20.7	160	94.6
S726757		147	0.8	20.0	82	155.0
S726758		155	1.0	21.5	85	137.5
S726759		152	0.6	20.5	83	139.5
S726760		148	0.7	20.9	75	136.5
S726761		163	0.9	22.9	82	135.0
S726762		158	0.7	23.5	90	171.5
S726763		176	0.7	18.4	93	119.5
S726764		173	0.7	20.4	85	114.5
S726765		142	0.7	19.7	79	126.5
S726766		164	0.8	21.7	77	129.0
S726767		158	0.7	18.6	81	127.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726768		0.72	0.002	0.07	6.87	8.3	440	1.21	0.10	2.57	0.18	64.7	36.0	315	1.54	68.0
S726769		0.64	0.010	0.06	7.01	8.0	480	1.91	0.11	2.59	0.13	104.0	34.9	242	1.54	71.7
S726770		0.05	0.023	0.17	8.33	14.6	190	0.83	0.34	0.19	0.05	38.7	31.8	551	3.98	357
S726771		0.90	0.003	0.08	7.32	19.9	510	2.10	0.28	2.04	0.20	122.5	32.2	137	1.66	69.5
S726772		0.99	0.001	0.07	7.57	9.3	490	1.49	0.10	2.19	0.17	79.7	26.9	172	1.69	65.4
S726773		1.09	0.001	0.07	6.90	4.4	480	1.60	0.10	1.93	0.18	91.3	28.6	341	2.09	54.9
S726774		1.00	0.002	0.07	7.21	9.4	380	1.17	0.10	2.68	0.21	61.6	43.0	470	1.50	93.9
S726775		0.97	0.003	0.05	6.93	10.8	330	1.06	0.09	2.52	0.14	59.3	40.6	399	0.92	58.3
S726776		1.16	0.001	0.06	7.24	33.8	430	1.28	0.15	1.93	0.21	59.5	37.1	327	2.15	86.0
S726777		0.80	0.003	0.08	7.03	71.6	350	0.97	0.14	2.30	0.30	53.4	50.8	445	1.43	86.4
S726778		0.85	0.003	0.09	7.47	14.5	410	1.20	0.10	1.78	0.09	51.6	51.5	514	1.35	104.5
S726779		0.95	0.002	0.04	7.33	13.0	490	1.50	0.08	2.15	0.08	79.8	24.7	204	1.41	60.8
S726780		0.85	0.003	0.06	7.14	6.5	480	1.45	0.09	2.42	0.20	69.9	25.6	195	1.26	77.8
S726781		0.91	0.004	0.13	8.06	23.6	500	1.48	0.13	2.14	0.17	68.0	34.8	192	2.17	156.0
S726782		1.09	0.003	0.09	7.77	6.8	420	1.33	0.08	2.65	0.12	65.4	30.9	140	1.27	94.6
S726783		0.83	<0.001	0.03	7.27	5.8	480	1.35	0.10	2.17	0.08	81.5	22.3	117	1.69	55.3
S726784		0.84	0.001	0.10	7.58	8.0	380	1.27	0.08	2.80	0.15	56.8	34.4	172	1.36	103.0
S726785		1.11	<0.001	0.04	7.68	4.8	480	1.57	0.08	2.69	0.11	80.7	25.4	123	1.29	59.6
S726786		0.99	0.001	0.08	7.66	7.1	430	1.26	0.09	2.67	0.10	64.5	28.1	163	1.44	85.4
S726787		0.85	<0.001	0.04	7.87	6.4	470	1.41	0.08	2.45	0.08	68.8	26.5	122	1.39	55.7
S726788		0.89	0.002	0.11	7.51	8.5	460	1.37	0.12	2.49	0.14	59.9	31.1	181	1.80	104.0
S726789		1.03	0.002	0.03	7.03	7.3	430	1.32	0.10	2.40	0.12	63.4	30.4	258	1.36	53.7
S726790		0.07	0.001	0.03	6.37	0.7	400	1.02	0.05	1.93	0.03	22.4	5.9	40	0.79	6.9
S726791		1.01	<0.001	0.04	6.66	7.9	490	1.47	0.10	2.53	0.19	85.4	29.4	283	1.23	53.3
S726792		0.84	<0.001	0.08	6.78	7.8	430	1.30	0.12	2.12	0.08	69.0	29.8	293	1.87	76.9
S726793		0.64	0.129	3.75	5.21	19.3	340	0.99	3.99	0.83	0.47	30.6	7.9	147	1.45	105.5
S726794		1.27	0.002	0.06	6.77	10.7	390	1.30	0.10	2.62	0.16	82.8	37.3	354	1.31	59.2
S726795		1.16	0.003	0.05	6.42	11.4	360	1.04	0.10	2.63	0.15	58.7	45.5	477	1.52	68.5
S726796		1.04	0.006	0.04	6.95	7.4	420	1.35	0.10	2.29	0.13	64.7	34.7	406	1.58	56.2
S726797		1.02	0.004	0.03	6.69	8.5	390	1.13	0.10	2.33	0.09	76.2	35.8	460	1.41	60.3
S726798		1.04	0.007	0.04	6.96	7.3	430	1.45	0.13	2.26	0.13	73.7	33.7	396	1.70	54.4
S726799		0.99	0.005	0.09	6.72	13.6	400	1.28	0.11	2.07	0.13	59.5	44.7	475	2.16	78.2
S726800		1.15	0.016	0.07	7.38	16.3	410	1.32	0.11	2.11	0.10	57.8	51.1	572	1.82	87.1
S726801		1.24	0.003	0.06	6.78	12.3	390	1.41	0.09	2.42	0.21	59.8	49.0	497	1.55	81.9
S726802		1.36	0.003	0.06	6.81	9.3	430	1.48	0.08	2.03	0.11	59.1	34.9	387	1.44	62.8
S726803		1.06	0.002	0.05	6.66	7.6	410	1.26	0.07	2.43	0.16	77.1	33.4	282	1.23	56.1
S726804		1.08	0.002	0.03	6.73	10.7	430	1.32	0.10	2.31	0.10	62.9	30.6	359	1.20	51.3
S726805		1.16	0.003	0.06	7.05	10.3	450	1.16	0.12	2.20	0.16	60.5	33.2	369	1.59	65.2
S726806		0.78	0.006	0.08	6.65	9.8	350	1.01	0.07	2.57	0.08	55.9	41.1	405	1.24	70.7
S726807		0.98	0.004	0.05	7.02	10.8	400	1.11	0.12	2.57	0.10	59.8	36.6	356	1.06	60.2



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726768		5.64	19.60	0.18	4.6	0.061	1.30	30.7	20.5	3.05	975	0.67	1.78	17.1	192.5	920
S726769		6.95	20.7	0.21	4.3	0.078	1.28	52.9	21.2	2.63	1170	1.07	2.10	49.9	130.0	1560
S726770		14.80	24.2	0.16	4.6	0.108	0.43	18.5	22.0	0.23	467	2.67	0.10	15.5	235	420
S726771		6.27	22.4	0.21	4.5	0.079	1.32	62.1	26.9	2.01	1280	0.97	1.99	149.0	80.6	1570
S726772		5.72	21.5	0.20	4.2	0.073	1.47	40.6	23.3	2.17	957	0.98	2.01	32.9	96.7	1240
S726773		5.16	20.1	0.11	5.1	0.066	1.36	43.4	25.5	2.93	698	0.82	2.00	26.7	179.0	1200
S726774		7.07	19.10	0.10	3.4	0.066	1.10	27.8	24.7	4.49	1240	0.67	1.58	18.8	303	970
S726775		6.62	18.50	0.09	3.5	0.066	0.94	26.3	19.9	4.26	1030	0.54	1.79	19.5	273	1080
S726776		6.43	19.50	0.08	3.4	0.060	1.23	27.8	24.6	2.74	1100	0.72	1.73	18.0	194.5	1050
S726777		6.64	18.55	0.08	2.9	0.065	1.05	23.5	19.9	3.49	1240	0.46	1.64	13.7	357	910
S726778		7.46	20.5	0.15	3.7	0.070	1.06	25.2	23.2	4.31	1190	0.74	1.60	14.6	319	720
S726779		5.36	20.4	0.19	4.6	0.058	1.42	41.4	21.1	2.10	800	0.74	2.15	27.1	115.5	1020
S726780		4.88	20.0	0.15	4.7	0.050	1.38	33.8	18.5	1.98	858	0.72	2.21	28.2	114.5	1340
S726781		7.25	22.5	0.18	4.0	0.070	1.34	32.6	25.5	2.52	896	1.48	1.82	48.5	118.5	910
S726782		6.57	21.8	0.15	3.7	0.069	1.11	30.2	20.6	2.21	1180	0.68	1.95	19.5	77.3	1000
S726783		5.20	20.4	0.18	4.7	0.064	1.34	37.1	20.4	1.66	902	0.76	1.98	24.2	57.0	1370
S726784		6.76	21.1	0.17	3.2	0.078	1.04	25.7	19.3	2.60	1210	0.61	1.88	18.4	99.4	1030
S726785		5.46	21.7	0.17	4.5	0.069	1.37	39.0	18.8	1.83	955	0.65	2.24	26.2	61.4	1180
S726786		6.06	21.5	0.17	4.2	0.073	1.19	32.0	20.1	2.28	870	0.70	2.01	21.5	88.5	910
S726787		6.09	22.4	0.17	3.8	0.073	1.32	29.6	21.2	1.94	1020	0.62	2.13	21.5	64.3	1040
S726788		6.23	21.7	0.15	4.3	0.068	1.31	30.5	22.4	2.41	1020	0.93	1.87	25.0	102.5	1130
S726789		5.81	18.95	0.15	3.8	0.060	1.21	30.3	19.3	2.54	1000	0.55	1.99	19.6	134.5	760
S726790		1.57	15.30	0.16	1.4	0.019	1.27	10.4	7.4	0.52	273	0.08	2.79	3.2	19.9	220
S726791		5.67	18.45	0.20	4.3	0.064	1.18	45.2	19.2	2.56	1010	0.66	1.97	39.0	141.0	1420
S726792		5.67	18.45	0.20	3.9	0.059	1.15	38.5	21.1	2.54	880	0.71	1.71	21.9	159.0	1100
S726793		18.55	17.50	0.22	3.5	0.182	1.10	15.0	11.6	0.63	483	60.3	1.26	17.5	42.4	1670
S726794		6.07	19.25	0.19	4.3	0.065	1.13	38.8	20.0	3.47	1060	0.77	1.94	39.3	206	1270
S726795		6.41	17.90	0.16	3.4	0.049	1.01	28.5	18.4	4.40	1150	0.47	1.67	19.9	304	950
S726796		5.83	18.50	0.17	4.3	0.059	1.20	33.1	20.0	3.59	921	0.56	1.84	20.1	232	830
S726797		5.92	18.45	0.18	4.4	0.057	1.12	38.1	19.1	3.89	939	0.48	1.81	45.1	260	950
S726798		5.76	19.70	0.19	4.4	0.066	1.25	37.4	20.5	3.36	929	0.63	1.91	23.5	215	1150
S726799		6.63	18.50	0.16	3.8	0.055	1.07	29.6	26.1	4.06	1020	1.30	1.56	13.2	264	570
S726800		7.13	20.5	0.16	3.8	0.066	1.15	26.9	27.2	5.01	1080	0.71	1.65	13.8	341	670
S726801		6.38	19.35	0.14	3.7	0.053	1.17	28.1	24.1	4.48	969	0.67	1.64	20.0	314	910
S726802		5.77	19.10	0.15	4.3	0.067	1.25	29.5	24.3	3.49	921	0.63	1.85	24.9	229	940
S726803		5.65	19.10	0.17	4.2	0.061	1.16	37.3	21.0	2.77	1020	0.61	2.00	22.4	168.5	1190
S726804		5.18	17.70	0.14	4.6	0.054	1.27	30.3	19.6	3.05	801	0.40	1.91	14.8	193.5	660
S726805		5.83	18.90	0.14	4.0	0.060	1.30	29.8	22.8	3.23	917	0.64	1.87	17.0	218	880
S726806		6.37	17.25	0.13	3.6	0.055	0.96	25.4	18.9	3.93	1090	0.57	1.84	19.2	264	930
S726807		6.16	18.35	0.16	4.0	0.056	1.11	28.0	19.5	3.38	1020	0.58	1.95	15.3	206	820



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726768		11.0	53.1	<0.002	0.01	0.80	22.8	1	1.5	243	0.86	0.08	6.77	0.581	1.2
S726769		11.8	51.8	<0.002	0.01	0.55	23.4	2	2.0	225	1.87	0.05	9.34	0.787	1.9
S726770		22.4	48.0	0.002	0.05	0.93	59.0	4	2.8	35.7	1.11	0.14	15.65	0.759	2.7
S726771		20.3	55.8	<0.002	0.01	0.84	22.1	2	2.3	275	2.22	0.32	17.65	0.604	3.4
S726772		12.0	61.8	<0.002	0.01	0.77	22.0	2	1.7	256	1.19	0.07	8.11	0.642	1.8
S726773		12.8	60.5	0.002	0.01	0.41	19.6	1	1.7	255	1.51	<0.05	9.64	0.641	2.2
S726774		9.0	43.3	0.002	0.01	0.84	25.9	1	1.3	200	1.03	<0.05	5.85	0.658	1.2
S726775		7.8	34.3	<0.002	<0.01	0.98	28.4	1	1.4	204	0.98	0.06	5.36	0.727	1.2
S726776		11.8	43.5	0.002	0.03	1.47	23.1	1	1.4	230	0.98	0.05	6.73	0.543	1.5
S726777		9.1	35.6	<0.002	0.01	3.58	26.0	1	1.3	226	0.72	0.07	4.32	0.581	0.8
S726778		10.9	37.3	<0.002	0.02	0.90	26.7	1	1.3	200	0.73	0.12	5.70	0.514	1.3
S726779		12.9	54.5	0.002	0.01	0.75	20.3	2	1.6	293	1.11	0.06	8.38	0.591	1.9
S726780		14.1	52.2	<0.002	0.01	0.56	19.0	1	1.6	309	1.17	<0.05	7.37	0.602	1.7
S726781		13.3	47.5	<0.002	0.02	1.10	24.7	2	1.6	246	1.35	0.12	12.10	0.586	1.9
S726782		10.9	33.8	<0.002	0.01	0.94	27.1	1	1.6	283	0.97	<0.05	5.42	0.658	1.2
S726783		13.1	58.6	<0.002	0.02	0.56	19.5	1	1.6	282	1.11	<0.05	8.17	0.587	1.8
S726784		9.1	33.2	<0.002	0.01	1.06	28.2	1	1.5	256	0.86	<0.05	5.09	0.659	1.0
S726785		12.0	46.4	<0.002	<0.01	0.70	23.0	2	1.6	323	1.04	<0.05	7.29	0.660	1.5
S726786		10.9	38.6	<0.002	0.01	0.88	26.3	1	1.6	286	0.94	<0.05	7.09	0.656	1.4
S726787		12.2	49.9	<0.002	0.02	0.76	24.4	1	1.7	298	1.16	0.06	6.21	0.672	1.5
S726788		11.9	44.0	<0.002	0.01	0.79	23.7	2	1.5	266	1.01	<0.05	6.91	0.614	2.7
S726789		10.6	40.5	0.002	0.01	0.65	23.4	2	1.5	261	1.01	0.07	5.93	0.612	1.4
S726790		7.7	52.0	<0.002	<0.01	0.09	6.6	1	0.5	395	0.25	<0.05	1.42	0.172	0.4
S726791		10.4	46.9	<0.002	0.01	0.94	24.0	2	1.8	246	1.43	<0.05	7.09	0.710	1.6
S726792		11.1	50.9	<0.002	0.04	1.18	22.2	2	1.5	221	1.16	0.09	7.18	0.544	1.7
S726793		70.0	50.2	0.004	0.06	10.60	20.2	35	3.5	107.5	0.70	2.53	4.98	0.619	7.2
S726794		12.4	40.6	<0.002	0.01	0.91	24.1	2	1.7	248	1.47	0.08	19.10	0.718	2.0
S726795		9.3	42.4	<0.002	0.01	0.96	26.0	1	1.4	213	0.85	0.07	5.05	0.637	1.2
S726796		10.5	47.8	<0.002	0.01	0.70	23.2	1	1.5	229	0.94	0.05	6.96	0.616	1.4
S726797		11.0	44.8	<0.002	0.01	0.75	23.5	1	1.5	228	1.41	<0.05	8.13	0.660	1.5
S726798		11.6	54.0	<0.002	0.01	0.70	22.4	1	1.6	236	1.08	<0.05	6.97	0.614	1.5
S726799		13.9	50.9	0.002	0.02	0.97	28.2	1	1.4	183.0	0.72	0.06	6.01	0.586	1.4
S726800		11.1	50.4	0.002	0.02	1.10	30.7	1	1.4	184.5	0.81	0.09	6.06	0.645	1.5
S726801		10.3	50.5	<0.002	0.01	0.87	26.2	1	1.3	212	0.86	0.07	6.23	0.579	1.6
S726802		11.1	41.1	<0.002	0.01	0.74	23.1	1	1.5	227	1.89	0.07	6.45	0.598	1.8
S726803		10.5	38.3	<0.002	0.01	0.72	24.0	1	1.5	268	1.09	<0.05	7.49	0.650	1.5
S726804		11.3	45.5	0.002	0.01	0.79	22.4	1	1.4	271	0.82	0.05	6.21	0.573	1.2
S726805		11.3	42.5	<0.002	0.01	0.80	22.9	1	1.3	257	0.85	<0.05	6.78	0.568	1.4
S726806		7.9	35.9	<0.002	0.01	0.78	27.9	1	1.3	247	0.82	0.05	4.47	0.641	1.1
S726807		9.9	40.5	<0.002	0.01	0.86	27.6	1	1.4	273	0.79	0.06	5.39	0.614	1.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S726768		154	0.7	22.2	89	171.5
S726769		180	1.2	28.9	106	178.5
S726770		231	1.9	11.5	43	164.5
S726771		150	0.7	28.7	124	174.0
S726772		154	0.7	24.5	102	167.5
S726773		146	0.6	23.2	99	197.5
S726774		192	0.7	21.9	113	134.0
S726775		189	0.6	23.2	96	135.5
S726776		164	0.6	19.6	110	135.0
S726777		176	0.6	20.2	115	114.5
S726778		186	0.6	19.0	111	138.5
S726779		140	0.6	22.7	91	172.5
S726780		131	0.5	20.5	104	172.0
S726781		183	0.7	23.6	126	149.5
S726782		187	0.7	25.6	100	141.5
S726783		141	0.7	19.9	91	167.0
S726784		198	0.8	24.9	103	120.5
S726785		160	0.7	24.2	86	167.5
S726786		178	0.7	25.2	96	159.5
S726787		172	0.7	23.3	91	145.0
S726788		174	0.7	23.4	108	156.0
S726789		158	0.9	21.5	87	143.5
S726790		42	0.2	7.1	20	52.3
S726791		160	0.9	25.6	87	164.5
S726792		147	0.8	23.9	90	142.5
S726793		582	5.5	12.2	326	126.0
S726794		164	0.8	24.0	91	162.0
S726795		169	0.9	22.7	90	136.0
S726796		155	0.8	21.9	87	155.0
S726797		154	0.7	24.6	81	164.5
S726798		153	0.7	21.7	90	165.0
S726799		180	1.0	21.8	106	138.5
S726800		186	1.0	24.1	110	145.0
S726801		169	0.7	22.5	99	139.5
S726802		156	0.7	20.7	93	165.0
S726803		155	0.6	24.0	87	161.0
S726804		141	0.8	22.5	77	168.0
S726805		154	0.7	20.4	94	151.0
S726806		176	0.6	22.5	86	129.0
S726807		167	0.7	21.9	89	163.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127858

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726808		0.90	0.007	0.03	7.08	7.3	410	1.10	0.08	2.79	0.09	65.8	30.5	313	1.09	52.3
S726809		1.12	0.005	0.08	7.27	10.5	420	1.18	0.12	2.65	0.17	59.5	40.7	374	1.39	90.7
S726810		0.82	0.005	0.04	7.22	10.6	470	1.37	0.11	2.20	0.08	64.1	29.9	262	1.60	57.5
S726811		0.80	0.003	0.04	7.28	10.7	480	1.29	0.11	2.19	0.10	61.8	30.4	254	1.61	62.3
S726812		1.25	0.003	0.12	7.42	9.5	440	1.29	0.14	2.30	0.16	65.9	36.4	333	1.87	99.9
S726813		1.17	0.003	0.04	7.08	9.3	420	1.20	0.08	2.47	0.12	58.2	34.1	333	1.20	66.3
S726814		1.12	0.004	0.04	6.61	8.1	370	1.11	0.07	2.30	0.05	58.7	30.7	314	1.18	57.5
S726815		0.93	0.003	0.07	6.96	10.6	400	1.18	0.08	2.44	0.17	59.8	39.2	382	1.40	73.3
S726816		0.92	0.003	0.02	6.53	9.4	370	1.16	0.08	2.59	0.12	57.6	33.0	316	0.92	59.3
S726817		1.08	0.010	0.04	6.58	8.5	370	1.03	0.08	2.53	0.13	53.0	35.9	375	1.04	84.3
S726818		1.08	0.008	0.18	7.30	11.1	300	0.82	0.10	3.14	0.61	40.0	79.0	968	1.90	307
S726819		1.04	0.018	0.03	7.29	11.2	400	1.21	0.10	2.55	0.12	67.2	40.2	452	1.61	80.7
S726820		0.96	0.004	0.07	7.12	17.2	400	1.19	0.13	2.37	0.14	52.6	42.4	495	1.92	112.5
S726821		1.14	0.005	0.08	7.28	15.5	410	1.37	0.11	2.22	0.24	63.5	43.6	351	1.61	87.2
S726822		1.00	0.003	0.08	7.31	14.6	430	1.22	0.11	2.61	0.21	58.0	40.5	378	1.89	89.0
S726823		1.13	0.004	0.06	7.50	9.7	460	1.23	0.09	2.20	0.18	60.4	31.9	233	1.53	69.9
S726824		1.07	0.017	0.05	7.37	11.3	430	1.21	0.10	2.22	0.13	62.3	34.8	325	1.53	72.4
S726825		1.11	0.006	0.08	7.30	12.9	390	1.22	0.20	1.88	0.19	63.8	51.7	1090	1.77	89.3
S726826		1.27	0.005	0.07	7.43	10.4	450	1.24	0.11	2.06	0.20	64.0	36.0	360	1.59	83.0
S726827		1.11	0.003	0.04	7.04	7.9	450	1.17	0.09	2.00	0.12	72.1	28.3	270	1.40	48.6
S726828		1.09	0.002	0.08	7.24	7.5	490	1.32	0.12	2.09	0.14	77.3	26.9	248	1.54	54.8
S726829		1.32	0.004	0.10	7.34	14.7	450	1.35	0.14	1.95	0.19	64.6	42.1	471	2.19	102.0
S726830		0.05	0.025	0.16	8.08	13.3	190	0.78	0.28	0.19	0.03	37.2	29.5	537	3.99	370
S726831		1.00	0.006	0.07	7.74	5.1	490	1.33	0.08	2.51	0.19	62.9	29.3	140	1.33	93.5
S726832		1.24	0.009	0.05	7.96	7.2	470	1.20	0.07	3.10	0.14	67.2	27.9	170	1.14	72.9
S726833		1.22	0.003	0.07	7.35	4.7	490	1.17	0.07	2.52	0.15	69.2	23.7	121	1.44	60.6
S726834		1.13	0.005	0.08	7.50	5.1	450	1.15	0.59	2.48	0.15	55.8	28.5	205	1.48	92.9
S726835		1.16	0.005	0.08	7.55	4.6	440	1.38	0.08	2.74	0.10	59.6	28.6	230	1.42	75.3
S726836		1.03	0.004	0.05	7.47	7.0	390	1.29	0.11	2.66	0.10	56.8	42.5	459	2.04	112.0
S726837		1.02	0.007	0.13	6.70	7.3	420	1.09	0.13	2.80	0.51	54.7	30.4	217	1.40	136.5
S726838		1.02	0.002	0.04	7.02	4.4	430	1.23	0.08	2.74	0.11	66.2	26.6	234	1.13	52.3
S726839		1.00	0.007	0.07	7.09	6.0	400	1.08	0.10	3.15	0.17	57.3	35.7	344	1.42	74.6
S726840		1.00	0.003	0.03	6.92	4.3	420	1.21	0.08	2.90	0.09	66.8	24.8	233	1.07	50.8
S726841		0.96	0.003	0.02	6.58	5.2	350	0.96	0.08	3.13	0.10	49.9	32.7	339	1.08	51.4
S726842		1.09	0.005	0.03	6.91	5.4	380	1.12	0.07	3.09	0.14	58.0	31.5	303	1.13	59.7
S726843		0.98	0.004	0.05	7.41	8.6	390	1.19	0.10	3.14	0.16	59.7	38.2	388	1.46	84.1
S726844		0.97	0.005	0.04	7.33	5.5	460	1.40	0.09	2.72	0.19	72.1	30.3	203	1.29	63.7
S726845		0.97	0.003	0.05	7.36	6.6	400	1.17	0.10	3.07	0.10	56.3	37.8	369	1.39	73.2
S726846		1.30	0.004	0.03	7.28	5.2	410	1.17	0.08	2.92	0.10	60.9	32.1	322	1.25	64.2
S726847		0.89	0.004	0.09	7.25	7.6	450	1.38	0.11	2.73	0.22	71.2	35.3	325	1.51	87.8



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726808		5.90	17.60	0.16	4.4	0.062	1.16	31.5	17.4	3.12	1000	0.50	2.07	19.5	165.0	960
S726809		6.79	19.20	0.14	3.4	0.062	1.20	26.8	22.8	3.71	1200	0.53	1.83	14.8	223	950
S726810		5.92	19.25	0.14	4.0	0.056	1.34	26.1	23.2	2.49	1020	0.66	2.05	21.1	128.0	760
S726811		5.89	19.60	0.13	3.8	0.061	1.39	27.3	23.9	2.56	1030	0.64	2.04	21.8	130.5	720
S726812		6.61	19.95	0.16	3.4	0.073	1.22	33.5	26.1	3.12	746	0.83	1.79	15.5	184.5	710
S726813		6.13	18.85	0.14	4.1	0.055	1.13	28.1	20.4	3.23	1020	0.57	1.97	18.4	191.0	890
S726814		5.52	17.70	0.20	3.8	0.059	1.04	28.5	18.6	2.95	828	0.45	1.80	18.2	177.0	770
S726815		6.43	18.60	0.14	3.8	0.060	1.13	27.5	22.0	3.52	1180	0.53	1.78	16.8	228	980
S726816		5.80	17.55	0.13	4.0	0.059	1.03	27.3	17.3	3.05	1040	0.39	1.94	17.8	185.5	860
S726817		5.71	17.55	0.14	3.3	0.058	1.05	25.3	21.4	3.44	918	0.44	1.85	17.4	224	740
S726818		7.49	17.15	0.12	2.4	0.049	0.83	22.7	36.7	6.09	1540	0.47	1.15	9.1	691	1080
S726819		6.42	18.95	0.14	4.3	0.060	1.16	30.1	23.2	3.66	1120	0.60	1.86	18.0	260	880
S726820		6.68	18.75	0.16	3.7	0.060	1.11	29.1	27.2	3.97	1060	0.64	1.59	20.6	291	860
S726821		6.69	20.4	0.15	3.7	0.070	1.20	26.9	23.3	3.37	1390	0.91	1.78	17.7	213	990
S726822		6.64	19.50	0.15	3.5	0.061	1.27	27.3	24.7	3.58	1220	0.79	1.75	16.4	227	880
S726823		6.23	20.1	0.15	4.0	0.072	1.29	28.2	23.0	2.67	894	0.71	1.96	33.8	129.5	1000
S726824		6.32	20.3	0.16	3.8	0.070	1.20	29.5	23.2	3.18	919	0.62	1.89	32.0	185.5	870
S726825		7.97	18.35	0.18	3.5	0.061	1.17	29.3	21.5	5.49	1240	0.67	1.53	15.7	470	990
S726826		6.56	19.55	0.15	3.7	0.061	1.32	29.4	22.1	3.12	1250	0.84	1.71	23.4	187.5	1010
S726827		5.64	19.10	0.18	4.0	0.060	1.33	33.3	21.2	2.42	999	0.62	1.79	17.9	119.5	990
S726828		5.39	19.45	0.17	4.4	0.055	1.40	36.6	21.1	2.23	935	0.79	2.01	27.2	114.0	1000
S726829		6.83	20.2	0.16	3.8	0.067	1.33	31.7	26.1	3.59	1290	0.91	1.59	16.5	256	980
S726830		14.60	21.4	0.10	4.4	0.089	0.41	17.1	22.2	0.23	485	2.60	0.10	14.8	229	430
S726831		6.61	21.1	0.14	3.4	0.076	1.32	27.1	20.6	2.20	1280	0.58	1.88	19.1	71.1	1120
S726832		6.63	20.7	0.15	4.1	0.080	1.22	31.8	19.0	2.39	1170	0.50	2.18	19.9	79.1	1040
S726833		5.56	18.75	0.16	4.0	0.058	1.37	33.2	20.0	1.92	1280	0.66	2.05	18.9	59.0	1200
S726834		6.46	18.90	0.15	3.3	0.063	1.27	26.0	20.3	2.58	906	0.53	1.82	16.5	102.5	1020
S726835		6.37	19.45	0.16	3.6	0.065	1.28	29.4	20.7	2.75	1040	0.55	1.94	19.1	124.5	1180
S726836		7.47	20.1	0.16	3.4	0.070	1.08	27.5	25.8	4.49	1250	0.61	1.41	14.9	275	810
S726837		6.87	16.20	0.19	3.2	0.058	1.18	26.4	16.3	2.15	956	1.10	1.91	11.0	111.5	1000
S726838		5.54	18.40	0.16	3.8	0.055	1.24	32.4	17.8	2.40	983	0.45	2.06	23.7	124.5	1130
S726839		6.46	17.60	0.17	3.5	0.061	1.15	25.2	19.2	3.58	1200	0.51	1.76	15.0	197.0	990
S726840		5.47	17.25	0.16	4.2	0.055	1.19	31.0	16.1	2.45	972	0.37	2.02	16.5	111.0	1040
S726841		5.98	16.75	0.15	3.5	0.065	0.97	20.5	17.1	3.56	1040	0.31	1.73	13.9	183.0	760
S726842		5.96	17.55	0.16	3.2	0.057	1.08	27.6	17.6	3.30	1010	0.37	1.88	13.8	168.0	920
S726843		6.94	18.80	0.16	3.4	0.062	1.05	29.6	20.4	3.86	1120	0.60	1.81	16.6	221	900
S726844		6.04	20.3	0.18	3.7	0.066	1.31	31.0	20.3	2.56	1220	0.54	2.00	33.6	119.5	1160
S726845		6.76	18.75	0.17	3.2	0.067	1.10	25.4	20.4	3.82	1190	0.49	1.79	19.2	209	950
S726846		6.29	18.55	0.15	3.5	0.065	1.13	27.5	19.4	3.30	1050	0.40	1.93	16.0	172.5	910
S726847		6.27	19.35	0.18	3.5	0.069	1.13	35.4	21.3	3.08	1000	0.75	1.95	19.1	193.0	1180



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726808		9.9	35.0	<0.002	0.01	0.93	26.1	1	1.5	304	0.91	0.05	5.70	0.670	1.3
S726809		11.7	32.9	<0.002	<0.01	0.96	26.2	1	1.4	255	0.75	<0.05	6.03	0.578	1.2
S726810		12.8	46.4	<0.002	0.03	0.67	21.6	1	1.5	276	1.01	0.06	6.76	0.555	1.4
S726811		13.6	50.3	<0.002	0.02	0.68	21.9	1	1.5	270	1.28	0.05	7.05	0.536	2.0
S726812		12.4	43.8	<0.002	0.02	0.84	25.8	2	1.4	249	0.86	0.07	6.72	0.570	1.6
S726813		9.9	30.8	<0.002	0.01	0.85	25.1	1	1.5	258	0.94	<0.05	5.69	0.626	1.3
S726814		9.2	41.1	<0.002	0.01	0.82	24.6	1	1.4	242	0.92	0.06	5.51	0.581	1.2
S726815		9.7	38.2	<0.002	0.01	0.89	25.3	1	1.3	240	0.84	<0.05	5.69	0.572	1.2
S726816		9.5	24.1	<0.002	<0.01	0.89	24.3	1	1.4	269	0.89	<0.05	4.85	0.660	1.1
S726817		9.2	26.2	<0.002	<0.01	1.03	23.6	1	1.4	250	0.91	<0.05	6.06	0.568	1.1
S726818		7.8	53.1	<0.002	0.03	0.97	27.1	2	0.9	155.0	0.54	0.09	4.93	0.370	0.8
S726819		10.2	48.1	<0.002	0.02	1.17	26.6	1	1.4	259	0.95	0.05	5.85	0.634	1.3
S726820		10.1	43.8	<0.002	0.01	1.96	24.6	1	1.3	211	0.94	0.06	6.54	0.528	1.5
S726821		12.2	34.7	<0.002	0.01	1.26	26.8	1	1.5	226	0.87	0.08	5.39	0.617	1.2
S726822		11.0	43.2	<0.002	0.01	1.14	24.9	2	1.4	229	0.91	0.05	5.76	0.573	1.3
S726823		10.7	36.0	<0.002	0.01	0.96	24.4	1	1.5	251	1.01	0.07	6.08	0.605	1.3
S726824		10.8	34.6	<0.002	0.01	1.01	25.6	1	1.5	242	1.10	0.07	5.99	0.611	1.5
S726825		10.3	50.4	<0.002	0.01	0.97	24.8	1	1.4	202	0.86	0.06	5.98	0.572	1.3
S726826		10.6	40.0	0.002	0.01	0.97	23.8	1	1.5	221	0.95	0.06	6.14	0.595	1.3
S726827		10.7	43.1	<0.002	0.01	0.76	21.5	1	1.6	242	0.97	0.05	7.17	0.579	1.5
S726828		12.6	49.5	<0.002	0.01	0.74	20.5	1	1.5	267	1.10	<0.05	7.30	0.575	1.7
S726829		11.8	49.2	<0.002	0.01	0.99	24.0	1	1.5	209	0.90	0.10	6.81	0.551	1.3
S726830		20.7	44.8	<0.002	0.05	0.85	55.1	3	2.7	31.7	1.10	0.09	14.70	0.752	2.7
S726831		10.7	34.1	<0.002	0.01	0.93	25.6	1	1.7	266	0.99	<0.05	5.80	0.670	1.2
S726832		10.9	32.0	0.002	0.01	0.97	27.5	2	1.6	331	1.04	<0.05	5.59	0.768	1.3
S726833		11.2	48.1	<0.002	0.01	0.64	20.5	2	1.5	293	0.95	<0.05	6.34	0.593	1.4
S726834		10.0	33.2	<0.002	0.02	0.81	22.7	1	1.4	258	0.87	<0.05	5.23	0.623	1.5
S726835		9.5	42.0	<0.002	0.01	0.82	25.1	1	1.5	274	0.94	<0.05	6.17	0.640	1.2
S726836		9.2	52.3	<0.002	0.02	0.78	26.7	1	1.4	199.5	0.81	<0.05	5.73	0.556	1.2
S726837		11.5	39.5	<0.002	0.01	0.84	19.9	2	1.2	307	0.64	0.19	4.98	0.460	1.6
S726838		9.9	40.3	<0.002	<0.01	0.69	22.8	2	1.5	297	0.98	<0.05	5.84	0.626	1.3
S726839		8.9	45.7	<0.002	<0.01	0.77	26.5	1	1.5	264	0.82	0.05	5.15	0.606	1.0
S726840		9.5	40.6	<0.002	0.01	0.64	22.8	1	1.4	300	0.89	<0.05	5.61	0.626	1.2
S726841		7.6	37.1	<0.002	0.01	0.71	26.2	1	1.3	257	0.70	0.05	3.86	0.585	0.9
S726842		8.0	40.6	<0.002	0.01	0.77	26.0	1	1.4	277	0.70	0.05	4.36	0.590	1.0
S726843		9.1	41.5	0.002	0.01	1.01	28.7	1	1.5	263	0.81	0.05	5.62	0.624	1.1
S726844		10.7	42.1	<0.002	0.01	0.79	24.8	1	1.7	290	1.00	<0.05	6.31	0.623	1.2
S726845		8.4	41.1	0.002	0.01	0.85	28.0	1	1.5	256	0.96	<0.05	4.96	0.620	1.1
S726846		9.1	34.6	<0.002	0.01	0.73	25.9	1	1.5	277	0.84	<0.05	5.17	0.630	1.1
S726847		10.0	38.1	<0.002	0.02	0.77	26.1	2	1.5	277	0.94	<0.05	6.79	0.635	2.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S726808		168	0.8	22.5	82	169.0
S726809		180	0.9	22.7	104	122.0
S726810		152	0.9	17.2	94	150.5
S726811		153	0.8	18.3	96	140.0
S726812		170	0.9	25.1	124	127.0
S726813		167	0.8	21.1	91	149.5
S726814		154	0.8	21.2	79	140.5
S726815		169	0.8	21.1	103	139.0
S726816		164	0.7	21.6	80	148.5
S726817		153	0.8	19.2	84	122.0
S726818		161	0.6	22.0	164	86.0
S726819		170	0.8	21.5	94	156.0
S726820		165	1.3	20.5	112	137.0
S726821		180	0.8	22.3	107	138.5
S726822		175	0.8	20.2	109	126.5
S726823		173	0.8	21.4	103	147.0
S726824		175	0.8	21.8	100	142.5
S726825		174	2.7	21.4	122	145.5
S726826		170	1.1	21.7	116	134.0
S726827		154	1.0	20.7	91	146.5
S726828		142	1.1	21.1	91	156.5
S726829		172	1.4	21.6	118	140.5
S726830		229	1.7	10.7	45	152.0
S726831		188	1.0	24.3	119	123.5
S726832		193	0.9	25.6	106	149.5
S726833		153	0.7	21.2	102	148.5
S726834		182	0.8	21.3	115	115.5
S726835		177	0.7	22.4	108	129.5
S726836		188	0.8	19.9	122	119.0
S726837		148	1.6	19.4	134	119.5
S726838		148	0.7	21.3	88	140.0
S726839		179	1.1	21.2	103	118.5
S726840		152	0.9	21.0	82	150.5
S726841		167	0.8	19.0	86	113.0
S726842		165	0.9	20.6	92	114.0
S726843		189	1.1	21.4	115	123.5
S726844		161	0.8	22.9	98	137.5
S726845		183	0.8	21.5	102	121.5
S726846		172	0.8	20.9	94	124.5
S726847		171	0.7	23.3	121	133.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI- 21	Au - ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726848		0.89	0.009	0.06	7.43	10.4	410	1.17	0.14	2.97	0.19	63.4	42.3	419	1.65	85.9
S726849		0.89	0.009	0.07	7.04	12.0	370	1.05	0.10	2.87	0.17	51.7	41.6	435	1.65	88.4
S726850		0.13	0.002	0.03	6.53	0.8	410	1.06	0.05	2.05	0.04	26.0	5.8	43	0.79	7.1
S726851		1.09	0.006	0.03	7.31	7.8	470	1.37	0.13	2.81	0.10	73.0	34.4	371	1.80	63.5
S726852		1.22	0.012	0.05	6.79	9.3	440	1.33	0.13	3.25	0.16	67.3	42.8	800	1.52	50.5
S726853		1.00	0.009	0.03	6.63	8.0	330	0.95	0.10	2.94	0.07	52.4	36.2	410	1.23	58.1
S726854		1.05	0.003	0.04	6.96	10.0	360	1.03	0.09	2.59	0.11	58.1	40.1	446	1.82	85.9
S726855		1.48	0.005	0.06	7.43	9.9	470	1.32	0.10	2.41	0.13	64.8	28.3	228	1.60	69.6
S726856		0.95	0.001	0.06	7.04	8.0	410	1.14	0.10	2.79	0.09	60.4	33.1	341	1.48	62.4
S726857		0.95	0.002	0.05	7.00	8.3	400	0.98	0.11	3.09	0.09	53.7	35.5	388	1.41	60.6
S726858		1.03	0.004	0.03	7.41	8.9	430	1.19	0.07	3.11	0.10	68.7	28.4	211	0.94	46.3
S726859		1.25	0.003	0.06	7.38	12.9	450	1.17	0.10	2.75	0.16	60.8	36.6	317	1.40	76.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S726848		7.05	18.60	0.18	3.2	0.069	1.23	28.8	20.7	4.07	1360	0.66	1.67	12.5	256
S726849		6.96	17.95	0.16	3.1	0.071	1.07	25.5	21.2	4.35	1180	0.63	1.63	13.8	277
S726850		1.66	14.95	0.15	2.0	0.023	1.30	11.2	8.0	0.55	288	0.07	2.92	3.7	20.1
S726851		6.18	19.00	0.18	3.5	0.065	1.43	38.1	21.3	3.44	1040	0.62	1.68	13.9	186.5
S726852		6.44	17.00	0.16	3.2	0.063	1.29	35.2	17.8	4.46	1250	0.48	1.67	10.3	299
S726853		6.36	17.35	0.19	3.6	0.059	0.92	23.7	18.3	4.04	1020	0.38	1.63	13.5	223
S726854		6.76	18.40	0.16	3.4	0.066	0.98	29.4	22.0	4.21	1100	0.61	1.54	13.0	253
S726855		5.93	20.3	0.18	4.0	0.065	1.28	32.0	22.5	2.57	862	0.63	2.00	16.7	126.0
S726856		6.09	18.85	0.15	3.3	0.070	1.16	28.4	19.8	3.54	944	0.43	1.85	17.2	194.5
S726857		6.36	17.35	0.13	3.2	0.059	1.11	25.9	18.5	4.01	1040	0.40	1.77	25.5	224
S726858		5.94	19.00	0.18	3.9	0.068	1.19	32.7	16.5	2.69	989	0.49	2.28	20.5	113.5
S726859		6.57	19.65	0.15	3.4	0.064	1.24	27.7	20.5	3.40	1140	0.61	1.98	15.8	189.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S726848		9.7	51.8	<0.002	<0.01	0.98	28.1	1	1.5	238	0.71	<0.05	5.68	0.576	0.28
S726849		8.1	47.8	<0.002	<0.01	0.87	27.5	1	1.3	232	0.71	0.06	4.85	0.592	0.25
S726850		7.4	51.1	0.002	<0.01	0.08	7.0	<1	0.6	407	0.27	<0.05	2.13	0.206	0.26
S726851		11.3	52.9	<0.002	0.01	0.70	25.3	1	1.7	251	0.82	<0.05	6.79	0.562	0.34
S726852		10.2	53.4	<0.002	<0.01	0.57	27.0	1	1.4	258	0.63	<0.05	6.30	0.460	0.31
S726853		7.5	37.2	0.002	0.01	0.83	27.7	1	1.4	239	0.74	<0.05	4.39	0.602	0.22
S726854		8.0	45.9	<0.002	0.01	0.87	27.6	1	1.3	218	0.70	0.06	4.93	0.554	0.24
S726855		10.7	47.8	<0.002	0.01	0.80	23.5	1	1.5	279	0.83	0.05	7.14	0.575	0.31
S726856		8.8	41.6	<0.002	0.01	0.79	24.9	1	1.5	266	0.82	0.10	5.29	0.584	0.26
S726857		8.7	44.4	<0.002	0.01	0.93	26.0	1	1.4	257	0.72	<0.05	5.28	0.597	0.23
S726858		9.2	35.9	<0.002	<0.01	0.88	25.8	1	1.5	333	0.93	<0.05	10.35	0.681	0.21
S726859		9.7	34.7	<0.002	0.01	0.97	24.7	1	1.5	266	0.81	0.06	5.15	0.597	0.24



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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TORONTO ON M5J 2W4

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		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S726848		182	1.2	21.3	113	111.5
S726849		185	0.8	20.5	106	130.0
S726850		45	0.2	7.8	22	74.3
S726851		164	1.4	21.5	105	128.5
S726852		148	1.5	19.3	104	107.0
S726853		179	0.9	19.6	86	130.5
S726854		179	0.8	20.1	102	132.0
S726855		160	0.8	20.2	98	143.5
S726856		163	0.8	19.6	90	126.5
S726857		173	1.0	18.9	90	116.0
S726858		174	0.8	21.7	82	142.5
S726859		177	0.9	19.6	100	126.0



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Account: LZIBAC

Project: QK-2016-TS-002

CERTIFICATE OF ANALYSIS VO16127858

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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North Vancouver BC V7H 0A7
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CERTIFICATE VO16127860

Project: QK-2016-TS-002

This report is for 114 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127860

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727270		1.60	0.010	0.04	6.90	11.0	480	1.26	0.11	1.87	0.16	72.6	27.2	166	1.50	44.7
S727271		1.54	0.008	0.02	6.80	7.9	470	1.28	0.10	1.73	0.12	69.0	19.8	138	1.46	34.6
S727272		1.38	0.009	0.04	6.78	6.7	450	1.23	0.09	2.26	0.12	66.9	21.6	149	1.30	35.1
S727273		1.24	0.018	0.03	6.77	7.0	440	1.15	0.09	2.34	0.11	67.6	22.0	150	1.11	32.9
S727274		1.60	0.006	0.04	6.98	7.4	470	1.21	0.10	2.01	0.10	61.6	21.6	150	1.41	35.1
S727275		1.39	0.009	0.02	6.93	5.6	460	1.20	0.08	2.01	0.08	61.0	18.9	128	1.49	29.4
S727276		1.32	0.005	0.04	6.96	6.1	460	1.23	0.08	2.34	0.08	64.3	22.0	154	1.27	33.2
S727277		1.44	0.006	0.04	7.01	7.4	470	1.22	0.09	2.18	0.11	64.5	21.1	172	1.43	37.2
S727278		1.17	0.010	0.03	6.98	6.7	450	1.19	0.09	2.26	0.10	63.9	21.4	174	1.31	32.7
S727279		1.14	0.018	0.05	7.17	7.5	470	1.30	0.10	2.17	0.13	63.4	24.2	185	1.65	42.2
S727280		0.03	0.394	0.50	7.45	35.6	2840	3.13	6.22	0.63	0.30	99.2	15.5	19	7.20	1500
S727281		1.23	0.014	0.06	7.13	8.3	480	1.27	0.10	2.27	0.14	67.0	24.3	172	1.51	43.5
S727282		1.22	0.009	0.06	7.28	13.1	480	1.32	0.12	2.08	0.18	70.7	28.1	182	1.68	56.8
S727283		1.40	0.012	0.06	7.40	14.7	490	1.45	0.12	1.79	0.16	68.6	28.3	184	1.91	57.2
S727284		1.38	0.005	0.05	7.24	9.3	490	1.40	0.12	1.93	0.15	63.8	22.0	162	1.76	44.5
S727285		1.21	0.017	0.08	7.43	13.2	490	1.34	0.13	1.86	0.13	65.1	24.1	185	1.91	65.6
S727286		1.31	0.021	0.06	7.35	13.7	490	1.43	0.12	1.96	0.21	79.1	29.8	176	1.87	62.9
S727287		1.10	0.005	0.07	7.06	9.0	490	1.40	0.10	2.05	0.13	68.7	22.8	178	1.71	51.4
S727288		1.42	0.016	0.07	7.42	15.2	470	1.31	0.13	1.94	0.16	65.7	27.9	199	1.80	65.0
S727289		1.19	0.011	0.07	7.47	16.5	480	1.32	0.13	1.97	0.17	63.1	29.4	193	1.85	75.2
S727290		0.96	0.008	0.08	7.64	17.7	520	1.45	0.15	1.76	0.15	70.2	27.2	193	2.25	65.5
S727291		1.21	0.012	0.02	6.90	9.8	470	1.23	0.09	2.03	0.13	71.8	23.5	165	1.38	35.4
S727292		0.94	0.007	0.11	7.69	23.7	500	1.51	0.18	1.84	0.24	69.0	34.3	215	2.60	96.2
S727293		1.07	0.009	0.05	7.26	12.8	450	1.19	0.14	1.99	0.12	68.9	28.7	186	1.72	62.8
S727294		1.10	0.006	0.09	7.44	16.5	490	1.43	0.15	1.90	0.19	63.4	30.1	198	2.14	79.8
S727295		1.01	0.050	0.05	6.90	10.1	410	1.18	0.10	2.19	0.13	67.9	27.1	196	1.32	47.9
S727296		1.03	0.007	0.08	7.80	17.2	510	1.55	0.15	2.06	0.26	70.6	34.5	200	2.29	87.4
S727297		1.11	0.005	0.04	7.05	7.5	460	1.34	0.08	2.14	0.12	64.2	23.1	140	1.58	49.5
S727298		1.19	0.009	0.09	7.64	16.8	520	1.54	0.14	1.86	0.21	70.4	28.9	178	2.38	87.1
S727299		1.15	0.004	0.05	6.76	6.9	490	1.28	0.08	2.03	0.13	76.5	20.4	133	1.52	41.7
S727300		0.12	<0.001	0.04	6.29	0.7	410	1.02	0.04	1.85	0.04	19.85	5.7	37	0.78	6.5
S727301		1.00	0.010	0.09	7.64	18.9	490	1.44	0.13	2.02	0.24	63.4	33.7	206	2.04	81.9
S727302		1.24	0.002	0.08	7.30	8.2	560	1.57	0.12	1.90	0.27	80.7	25.1	141	2.37	56.7
S727303		1.23	0.002	0.10	7.67	7.7	570	1.63	0.11	1.97	0.25	81.1	27.3	159	2.24	59.9
S727304		1.22	0.005	0.08	7.63	11.9	510	1.51	0.13	2.01	0.25	71.0	29.2	187	2.19	71.3
S727305		1.37	0.004	0.07	7.37	7.2	530	1.48	0.10	1.97	0.21	79.4	23.5	157	1.96	48.7
S727306		1.11	0.005	0.07	7.45	10.6	510	1.41	0.09	1.92	0.21	70.9	26.9	188	1.79	57.9
S727307		1.31	0.011	0.08	7.48	11.8	480	1.38	0.12	2.06	0.25	75.1	32.7	199	1.85	66.2
S727308		1.28	0.005	0.10	7.56	11.8	510	1.42	0.11	1.98	0.25	72.8	31.2	193	2.03	70.2
S727309		1.01	0.008	0.11	8.06	18.6	510	1.42	0.14	2.21	0.25	68.8	37.0	209	2.15	85.2



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127860

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S727270		5.37	18.90	0.06	4.2	0.058	1.43	31.2	18.7	1.69	1190	0.71	1.87	15.7	63.5
S727271		4.77	18.40	0.08	4.6	0.057	1.46	32.6	18.6	1.48	756	0.52	1.90	15.2	48.1
S727272		5.06	18.20	0.09	3.8	0.054	1.35	30.6	17.9	1.77	803	0.62	1.98	14.7	52.2
S727273		5.05	17.90	0.07	4.3	0.056	1.29	30.8	16.4	1.72	890	0.56	2.03	16.2	49.8
S727274		5.20	18.40	0.07	4.0	0.058	1.42	28.8	18.8	1.75	839	0.54	1.93	15.6	49.8
S727275		4.88	18.80	0.07	4.0	0.056	1.44	29.4	19.2	1.64	728	0.65	1.97	15.3	44.2
S727276		5.16	18.85	0.07	3.9	0.053	1.37	29.2	18.2	1.79	871	0.50	2.03	15.5	48.0
S727277		5.26	18.55	0.07	4.4	0.072	1.37	30.9	18.8	1.75	848	0.53	1.96	15.4	53.1
S727278		5.27	18.45	0.07	4.5	0.059	1.32	29.6	18.1	1.80	880	0.43	1.97	16.1	52.7
S727279		5.59	19.45	0.08	4.1	0.064	1.41	30.6	20.7	1.94	907	0.54	1.85	15.2	62.3
S727280		4.23	26.7	0.10	7.7	0.684	2.97	48.7	20.0	0.27	390	3.27	2.44	18.6	8.7
S727281		5.39	19.20	0.08	4.1	0.059	1.47	31.2	20.2	1.84	951	0.63	2.02	15.6	56.9
S727282		5.86	20.0	0.07	4.3	0.064	1.46	32.2	21.4	1.92	1190	0.71	1.88	15.0	68.9
S727283		5.73	20.0	0.08	4.3	0.062	1.54	32.0	21.9	1.84	1060	0.77	1.76	14.9	70.2
S727284		5.30	19.50	0.08	4.3	0.057	1.55	31.5	21.1	1.72	873	0.66	1.86	15.0	57.1
S727285		5.67	19.85	0.08	4.4	0.065	1.57	31.5	22.5	1.89	811	0.78	1.79	13.8	68.7
S727286		5.67	19.75	0.09	4.5	0.053	1.59	35.6	21.9	1.86	1180	0.86	1.84	15.2	78.0
S727287		5.10	18.90	0.07	4.4	0.063	1.59	34.3	21.6	1.79	848	0.86	1.90	15.5	67.6
S727288		6.01	19.70	0.08	4.0	0.063	1.49	31.5	20.8	1.98	1160	0.69	1.77	14.1	77.7
S727289		6.21	20.1	0.07	3.9	0.068	1.50	28.6	21.6	2.01	974	0.72	1.75	13.2	79.1
S727290		5.98	20.5	0.07	4.5	0.065	1.62	34.2	23.3	1.86	821	0.77	1.74	15.0	72.4
S727291		4.92	18.25	0.08	4.8	0.056	1.43	32.0	17.8	1.57	963	0.63	1.99	15.6	51.0
S727292		6.78	21.8	0.08	4.4	0.078	1.59	33.1	26.3	2.10	1230	1.06	1.58	14.4	93.7
S727293		5.72	19.50	0.08	4.0	0.057	1.41	32.4	20.2	1.88	1020	0.71	1.81	14.5	65.1
S727294		6.28	20.3	0.07	4.1	0.067	1.57	31.6	23.5	1.98	1030	1.05	1.68	13.6	78.7
S727295		5.30	18.20	0.07	4.1	0.063	1.26	30.3	16.9	1.82	1030	0.51	1.86	14.6	64.9
S727296		6.60	21.4	0.09	4.2	0.068	1.65	32.9	24.7	2.12	1260	0.95	1.75	14.8	85.4
S727297		5.23	18.70	0.07	4.0	0.059	1.46	29.9	19.6	1.61	918	0.74	1.93	15.0	47.8
S727298		6.17	21.2	0.08	4.3	0.068	1.65	38.6	24.6	1.95	1140	1.17	1.73	14.9	76.3
S727299		4.73	18.55	0.07	4.6	0.052	1.59	37.9	19.3	1.41	811	0.85	1.95	15.8	44.3
S727300		1.48	14.55	<0.05	1.7	0.016	1.32	9.3	8.6	0.52	282	<0.05	2.77	3.4	18.7
S727301		6.53	20.0	0.08	3.8	0.068	1.56	28.8	22.6	2.17	1250	0.74	1.68	13.3	84.7
S727302		5.36	20.6	0.08	4.6	0.065	1.91	39.0	26.2	1.67	914	1.52	1.88	16.6	64.2
S727303		5.93	20.0	0.12	4.4	0.067	1.91	40.2	24.8	1.81	992	1.72	1.94	17.1	76.0
S727304		6.11	19.75	0.12	3.7	0.063	1.62	35.4	23.0	1.92	994	1.08	1.81	15.2	82.3
S727305		5.40	18.60	0.11	4.4	0.058	1.75	39.5	21.3	1.64	847	1.04	1.94	16.7	64.2
S727306		5.71	19.40	0.10	3.9	0.063	1.65	35.3	21.7	1.80	967	0.97	1.89	15.8	71.0
S727307		5.99	19.70	0.12	3.9	0.062	1.52	35.1	21.2	1.99	1180	0.90	1.88	14.9	85.1
S727308		6.31	19.35	0.10	4.0	0.063	1.64	34.9	22.6	1.96	1060	1.14	1.86	16.0	83.1
S727309		6.98	20.1	0.12	3.7	0.068	1.56	33.5	22.8	2.21	1220	0.81	1.82	13.6	92.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727270		10.6	51.7	<0.002	0.01	1.02	20.7	1	1.6	208	1.10	<0.05	7.26	0.628	1.9
S727271		10.1	54.6	<0.002	<0.01	0.84	18.8	1	1.5	218	1.04	<0.05	7.36	0.603	1.9
S727272		8.7	49.0	<0.002	<0.01	0.88	20.4	1	1.5	243	0.98	<0.05	6.42	0.628	1.6
S727273		8.7	45.2	<0.002	0.01	0.89	20.8	1	1.5	249	1.09	<0.05	6.81	0.665	1.6
S727274		9.0	51.8	<0.002	0.01	0.83	20.0	1	1.6	220	1.05	<0.05	6.45	0.625	1.6
S727275		8.8	51.2	<0.002	0.01	0.62	17.9	1	1.5	248	1.01	<0.05	6.80	0.605	1.7
S727276		8.6	48.5	<0.002	0.01	0.78	20.4	1	1.5	260	1.07	<0.05	6.01	0.651	1.6
S727277		9.3	50.7	<0.002	0.01	0.88	21.3	1	1.6	238	1.05	<0.05	6.65	0.637	1.6
S727278		8.6	47.9	<0.002	0.01	0.91	21.6	1	1.5	238	1.10	<0.05	6.49	0.652	1.5
S727279		9.3	57.8	<0.002	0.01	0.95	22.6	1	1.6	223	1.02	<0.05	6.87	0.631	1.7
S727280		31.0	139.5	<0.002	0.07	2.26	5.4	3	4.1	162.0	1.47	0.07	15.80	0.124	5.4
S727281		10.3	54.0	<0.002	<0.01	0.89	21.8	1	1.6	245	1.10	<0.05	7.26	0.624	1.7
S727282		10.7	56.5	<0.002	<0.01	1.13	22.8	1	1.6	217	1.07	<0.05	7.76	0.608	1.8
S727283		11.7	61.8	<0.002	0.01	1.25	22.3	1	1.7	200	1.02	0.06	8.06	0.572	1.9
S727284		10.6	61.8	<0.002	0.01	0.97	21.0	1	1.6	215	1.03	<0.05	9.81	0.592	1.9
S727285		11.7	60.3	<0.002	0.01	1.28	22.1	<1	1.6	203	0.95	0.05	8.13	0.580	2.0
S727286		12.3	61.3	<0.002	0.01	1.14	22.1	1	1.7	214	1.04	0.05	8.37	0.602	1.8
S727287		11.3	60.7	<0.002	0.01	0.79	19.7	1	1.6	230	1.07	<0.05	8.68	0.610	2.0
S727288		10.6	59.6	<0.002	0.01	1.34	23.4	1	1.6	200	0.93	<0.05	7.63	0.605	1.7
S727289		11.5	54.8	<0.002	0.01	1.42	23.2	1	1.6	198.5	0.94	0.05	7.15	0.591	1.6
S727290		12.9	66.3	<0.002	0.01	1.15	22.3	1	1.7	203	1.01	<0.05	9.08	0.582	2.1
S727291		10.8	51.2	<0.002	0.01	0.80	19.8	1	1.5	243	1.08	<0.05	7.38	0.627	1.7
S727292		13.7	66.3	<0.002	0.01	1.43	24.9	1	1.8	184.0	0.98	<0.05	9.01	0.581	2.3
S727293		10.7	54.5	<0.002	0.01	1.18	22.7	1	1.6	209	0.96	0.05	7.49	0.634	1.8
S727294		12.7	62.8	<0.002	0.01	1.25	22.6	1	1.6	190.5	0.94	0.07	8.40	0.583	2.0
S727295		9.8	43.8	<0.002	0.01	1.14	22.8	1	1.6	221	1.00	<0.05	6.33	0.645	1.5
S727296		13.3	62.7	<0.002	0.01	1.27	24.1	1	1.7	201	0.98	0.05	8.20	0.624	1.9
S727297		10.5	53.2	<0.002	0.01	0.72	20.4	1	1.5	232	1.01	<0.05	7.24	0.630	1.6
S727298		13.3	70.3	<0.002	0.01	1.13	23.2	1	1.7	194.0	0.99	<0.05	9.16	0.587	2.4
S727299		11.4	56.9	<0.002	0.01	0.63	18.5	1	1.4	235	1.05	<0.05	8.47	0.608	1.9
S727300		6.7	49.2	<0.002	<0.01	0.07	6.3	<1	0.5	387	0.29	<0.05	1.47	0.171	0.4
S727301		11.4	60.1	<0.002	0.01	1.35	23.7	1	1.6	192.0	0.91	0.06	7.33	0.596	1.7
S727302		14.7	76.7	<0.002	0.01	0.68	19.3	1	1.6	216	1.09	<0.05	10.15	0.589	2.3
S727303		15.5	72.7	<0.002	0.01	0.66	19.2	1	1.5	219	1.08	<0.05	9.61	0.669	1.7
S727304		13.2	65.0	<0.002	0.01	0.83	21.1	1	1.6	214	0.96	<0.05	8.53	0.633	1.8
S727305		12.0	66.3	<0.002	0.01	0.69	18.7	2	1.5	221	1.07	0.05	8.85	0.658	1.8
S727306		12.4	63.4	<0.002	0.01	0.80	19.7	1	1.5	212	1.02	0.05	8.39	0.651	1.7
S727307		12.8	62.1	<0.002	0.01	0.94	22.3	1	1.5	216	0.97	0.05	7.82	0.656	1.7
S727308		12.4	59.0	<0.002	0.01	0.96	20.9	1	1.5	210	1.04	<0.05	8.25	0.653	1.7
S727309		12.3	61.6	<0.002	0.01	1.06	23.4	1	1.5	217	0.87	0.05	7.82	0.650	1.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727270		144	1.2	22.0	92	145.0
S727271		129	1.1	20.4	83	160.5
S727272		141	1.0	20.4	84	132.0
S727273		141	1.2	21.5	78	151.0
S727274		139	1.3	20.1	86	137.5
S727275		132	0.9	17.8	80	139.0
S727276		142	1.1	20.5	81	137.0
S727277		145	1.0	21.8	88	154.5
S727278		150	1.0	21.0	86	154.0
S727279		154	1.0	21.9	99	149.5
S727280		10	2.9	16.6	147	265
S727281		145	1.0	21.1	94	142.5
S727282		155	1.2	23.3	105	148.5
S727283		152	1.1	20.8	108	153.0
S727284		143	1.1	21.1	98	148.5
S727285		154	1.1	20.5	107	149.0
S727286		152	1.3	22.7	108	160.5
S727287		142	0.8	20.6	94	154.5
S727288		163	1.2	22.0	108	141.0
S727289		168	1.3	21.3	114	136.0
S727290		161	1.1	21.3	115	154.0
S727291		141	1.0	19.9	87	169.5
S727292		181	1.3	21.9	134	151.0
S727293		167	1.0	21.0	102	141.0
S727294		168	1.1	21.0	122	146.5
S727295		158	1.2	21.0	89	140.5
S727296		180	1.1	22.2	130	148.0
S727297		153	0.8	19.4	93	139.5
S727298		162	1.2	23.7	131	149.0
S727299		135	0.7	20.1	84	170.0
S727300		39	0.1	7.0	21	75.1
S727301		179	1.1	20.0	125	136.0
S727302		145	0.7	20.4	115	162.0
S727303		157	0.7	21.3	117	165.5
S727304		164	0.8	20.9	113	141.5
S727305		150	0.7	20.8	105	159.5
S727306		152	0.9	20.4	103	144.5
S727307		163	1.1	21.8	105	143.5
S727308		168	0.8	20.3	113	150.5
S727309		187	0.9	21.0	125	141.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727310		1.23	0.003	0.05	7.49	6.3	530	1.35	0.10	2.00	0.14	71.7	22.3	183	1.95	50.5
S727311		1.50	0.005	0.08	7.35	8.3	550	1.52	0.10	1.89	0.20	76.2	25.9	198	2.16	64.4
S727312		1.46	0.008	0.08	7.67	17.9	480	1.31	0.11	2.27	0.21	67.2	35.2	216	1.68	68.6
S727313		1.20	0.021	0.07	7.31	15.8	440	1.20	0.10	2.32	0.27	75.2	36.9	222	1.48	64.6
S727314		1.19	0.006	0.07	7.41	14.7	470	1.25	0.10	2.15	0.20	67.6	31.6	215	1.58	63.2
S727315		1.07	0.006	0.06	7.60	10.0	510	1.41	0.11	2.14	0.19	78.8	24.2	214	1.60	54.9
S727316		1.29	0.004	0.07	7.56	13.6	510	1.44	0.11	2.19	0.27	72.7	33.7	241	1.72	64.7
S727317		1.12	0.005	0.08	7.61	11.8	510	1.28	0.11	2.12	0.20	72.0	33.5	245	1.71	65.8
S727318		1.05	0.008	0.09	7.54	12.3	500	1.40	0.11	2.10	0.22	68.5	31.0	248	1.72	67.7
S727319		1.47	0.006	0.08	7.84	15.1	460	1.32	0.12	2.10	0.27	69.4	39.3	227	1.80	83.8
S727320		0.05	0.002	0.05	9.68	9.8	160	0.86	0.34	0.31	0.04	49.5	7.8	120	6.44	32.0
S727321		1.21	0.004	0.09	7.68	12.7	490	1.30	0.11	2.04	0.19	58.3	33.1	235	1.80	77.6
S727322		1.29	0.008	0.07	7.81	13.7	470	1.30	0.13	2.20	0.25	69.7	38.6	225	1.63	73.0
S727323		1.13	0.010	0.07	7.71	13.4	460	1.21	0.13	2.22	0.19	64.4	37.5	240	1.47	71.1
S727324		1.18	0.007	0.06	7.94	14.1	460	1.32	0.14	2.12	0.19	67.9	31.2	205	1.61	67.6
S727325		1.19	0.009	0.05	7.68	12.9	450	1.22	0.13	2.11	0.15	62.7	27.3	217	1.54	63.8
S727326		0.98	0.006	0.10	7.96	22.4	480	1.48	0.13	2.44	0.24	74.5	35.8	231	1.79	77.3
S727327		1.12	0.002	0.06	7.50	10.4	500	1.45	0.11	2.31	0.20	72.3	30.1	254	1.68	59.7
S727328		1.33	0.003	0.08	7.52	12.2	490	1.38	0.13	2.09	0.23	75.8	34.1	248	1.63	67.2
S727329		1.25	0.005	0.09	7.59	11.7	480	1.25	0.10	2.33	0.24	65.8	34.7	212	1.79	77.2
S727330		1.28	0.042	0.07	7.52	9.3	480	1.29	0.09	2.22	0.23	64.4	29.0	245	1.63	61.9
S727331		1.32	0.006	0.06	7.21	10.1	480	1.25	0.09	2.18	0.22	70.1	30.3	238	1.58	59.8
S727332		1.13	0.006	0.06	7.40	11.3	420	1.19	0.09	2.46	0.22	73.7	38.3	234	1.37	71.2
S727333		1.01	0.009	0.07	7.44	10.0	450	1.21	0.09	2.48	0.20	59.0	33.2	258	1.53	73.6
S727334		1.11	0.006	0.05	7.24	7.4	460	1.18	0.08	2.33	0.14	58.7	25.4	221	1.34	57.3
S727335		1.11	0.011	0.06	7.44	10.1	450	1.23	0.08	2.36	0.18	57.8	29.6	246	1.51	81.8
S727336		1.14	0.010	0.07	8.02	11.5	440	1.29	0.13	2.37	0.16	55.9	33.4	240	1.54	84.0
S727337		1.26	0.005	0.06	7.75	9.2	450	1.19	0.10	2.31	0.19	59.1	30.6	213	1.65	71.5
S727338		1.37	0.004	0.07	7.64	9.4	430	1.21	0.10	2.41	0.17	64.3	34.6	204	1.32	70.3
S727339		1.37	0.007	0.04	7.06	11.3	430	1.20	0.10	2.28	0.20	52.6	36.4	198	1.35	80.3
S727340		0.15	<0.001	0.03	6.19	0.7	430	1.10	0.04	1.77	0.03	19.20	6.1	31	0.77	6.9
S727341		1.16	0.004	0.05	7.33	11.5	440	1.33	0.11	2.20	0.21	57.7	36.3	201	1.53	78.4
S727342		1.14	0.003	0.04	7.26	9.3	440	1.31	0.11	2.23	0.20	65.7	34.1	167	1.47	64.1
S727343		1.02	0.004	0.06	7.26	11.5	460	1.36	0.11	2.06	0.19	58.7	35.1	185	1.75	76.0
S727344		1.21	0.006	0.04	6.99	9.5	430	1.33	0.10	2.27	0.19	65.6	33.0	197	1.34	60.3
S727345		1.08	0.001	0.07	6.72	7.0	520	1.49	0.10	2.01	0.23	73.3	25.0	169	2.02	48.6
S727346		1.10	0.004	0.04	7.03	8.5	460	1.34	0.10	2.17	0.16	61.8	28.5	195	1.59	57.2
S727347		1.01	0.003	0.02	7.25	8.8	460	1.33	0.08	2.18	0.16	57.0	31.2	198	1.54	63.3
S727348		1.14	0.005	0.05	7.25	12.2	420	1.23	0.09	2.34	0.19	60.3	36.2	216	1.37	78.1
S727349		1.25	0.004	0.05	6.99	10.8	450	1.30	0.09	2.29	0.21	63.4	32.5	209	1.48	66.7



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727310		5.41	18.70	0.11	4.2	0.060	1.67	36.8	21.9	1.76	774	0.94	1.92	15.6	64.5	840
S727311		5.63	18.65	0.13	4.2	0.054	1.77	40.5	22.7	1.81	840	1.21	1.86	16.6	86.5	850
S727312		6.52	19.15	0.10	3.9	0.063	1.43	31.0	20.3	2.02	1190	0.76	1.94	14.9	90.7	950
S727313		6.20	18.75	0.13	3.7	0.060	1.29	33.9	18.7	2.05	1270	0.71	1.88	14.8	96.5	910
S727314		6.17	18.20	0.11	3.6	0.061	1.35	32.2	19.6	2.02	1100	0.71	1.84	13.8	86.8	890
S727315		5.89	19.05	0.11	4.0	0.066	1.47	37.2	19.9	1.91	806	0.72	2.00	17.7	72.8	860
S727316		6.40	19.30	0.11	3.8	0.070	1.46	34.5	21.1	2.21	1220	0.73	1.87	16.8	105.0	1010
S727317		6.44	18.85	0.11	3.6	0.065	1.44	34.2	20.6	2.20	1240	0.79	1.87	16.9	105.0	930
S727318		6.67	18.80	0.14	3.8	0.063	1.49	33.9	21.2	2.24	1080	0.82	1.84	17.6	104.5	970
S727319		6.93	19.20	0.12	3.6	0.068	1.38	32.2	20.6	2.22	1300	0.84	1.77	14.1	103.5	950
S727320		6.89	25.7	0.08	4.7	0.086	0.50	23.3	32.9	0.32	495	2.48	0.14	22.9	45.5	520
S727321		6.88	19.05	0.10	3.8	0.066	1.42	29.0	21.4	2.22	1060	0.78	1.77	14.6	93.1	930
S727322		6.78	19.60	0.10	3.6	0.073	1.39	31.5	19.9	2.20	1350	0.79	1.83	14.6	100.0	940
S727323		6.64	18.80	0.09	3.5	0.062	1.35	28.5	18.4	2.22	1310	0.65	1.81	12.9	101.5	890
S727324		6.68	19.25	0.11	3.7	0.069	1.36	31.4	19.5	2.01	936	0.61	1.85	13.8	78.2	830
S727325		6.34	18.90	0.10	3.5	0.063	1.31	31.9	18.5	2.01	894	0.58	1.86	14.9	79.2	840
S727326		6.87	19.75	0.12	3.8	0.068	1.46	34.9	21.4	2.18	1240	0.78	1.81	16.1	99.0	960
S727327		6.37	18.95	0.09	4.0	0.062	1.50	33.7	20.6	2.01	1050	0.76	1.93	20.0	90.1	1040
S727328		6.46	19.45	0.11	4.1	0.070	1.45	36.7	20.7	1.94	1180	0.76	1.97	19.8	91.7	1120
S727329		6.61	18.85	0.12	3.6	0.065	1.38	30.4	19.9	2.11	1160	0.80	1.85	14.3	93.4	930
S727330		6.21	18.75	0.09	3.7	0.064	1.35	32.4	19.3	2.06	941	0.68	1.90	15.9	91.9	910
S727331		5.87	18.55	0.10	3.8	0.067	1.40	34.2	19.2	1.97	1030	0.67	1.92	16.9	93.8	890
S727332		6.43	18.85	0.12	3.5	0.065	1.17	33.9	17.6	2.29	1310	0.59	1.90	14.8	106.0	950
S727333		6.54	17.65	0.10	3.5	0.059	1.29	28.2	18.8	2.40	1160	0.60	1.83	13.9	108.5	910
S727334		5.70	17.60	0.09	3.9	0.064	1.33	31.4	18.0	1.93	864	0.58	2.00	15.5	76.3	830
S727335		6.19	17.90	0.09	3.4	0.059	1.29	28.9	19.1	2.20	875	0.56	1.89	13.9	90.8	760
S727336		7.12	19.20	0.10	3.4	0.065	1.26	27.3	18.8	2.29	1120	0.62	1.86	12.8	89.8	940
S727337		6.48	18.90	0.10	3.6	0.069	1.33	29.5	18.9	2.17	1220	0.63	1.87	12.9	84.4	910
S727338		6.52	19.20	0.09	3.4	0.063	1.24	29.2	17.7	2.05	1200	0.63	2.00	14.2	81.7	920
S727339		6.67	18.70	0.14	3.4	0.072	1.16	23.1	21.4	2.16	1220	0.65	1.78	13.2	88.9	880
S727340		1.44	14.05	0.10	1.1	0.015	1.23	10.1	9.3	0.53	244	0.09	2.77	3.3	20.5	200
S727341		6.72	20.1	0.16	3.9	0.071	1.25	26.1	24.1	2.14	1250	0.72	1.83	14.5	90.2	870
S727342		6.33	19.30	0.17	3.9	0.066	1.22	29.0	21.8	1.87	1140	0.69	1.87	15.7	71.0	890
S727343		6.72	19.95	0.14	3.7	0.068	1.30	26.2	23.9	1.99	1140	0.71	1.78	14.1	80.0	870
S727344		6.15	18.40	0.15	4.2	0.066	1.21	29.8	20.7	1.92	1110	0.68	1.89	15.4	80.5	890
S727345		5.48	18.50	0.16	4.5	0.059	1.64	37.5	25.1	1.68	844	1.12	1.86	18.7	73.5	1060
S727346		5.93	18.55	0.16	4.4	0.068	1.29	29.2	22.8	1.95	873	0.66	1.82	15.8	81.4	810
S727347		6.43	18.95	0.14	3.7	0.063	1.34	27.5	23.7	2.17	964	0.68	1.86	15.5	83.5	850
S727348		6.73	19.15	0.15	3.8	0.069	1.18	27.0	21.8	2.25	1170	0.65	1.81	15.2	94.3	880
S727349		6.29	18.40	0.15	3.7	0.066	1.29	29.5	22.2	2.06	1100	0.70	1.84	16.4	90.1	890



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727310		11.6	67.0	<0.002	0.01	0.59	19.0	1	1.4	228	1.00	<0.05	9.06	0.655	1.7
S727311		12.2	72.8	<0.002	0.01	0.60	18.6	2	1.5	214	1.05	<0.05	9.78	0.617	1.7
S727312		11.1	47.8	<0.002	0.01	1.22	22.7	1	1.5	234	0.95	<0.05	7.01	0.687	1.3
S727313		10.5	46.4	<0.002	0.01	1.12	23.2	2	1.5	225	0.94	<0.05	6.76	0.707	1.3
S727314		10.8	49.6	<0.002	0.01	0.99	21.8	1	1.5	226	0.88	<0.05	7.09	0.670	1.4
S727315		11.3	54.9	<0.002	0.01	0.80	21.4	1	1.6	232	1.14	<0.05	8.03	0.747	1.6
S727316		11.3	58.6	<0.002	0.01	0.94	22.2	1	1.5	215	1.03	0.06	7.55	0.718	1.3
S727317		10.8	57.3	<0.002	0.01	0.86	22.2	1	1.6	209	1.07	<0.05	7.40	0.705	1.4
S727318		11.1	52.2	<0.002	0.01	0.83	21.5	1	1.5	201	1.10	<0.05	7.70	0.720	1.5
S727319		11.1	55.4	<0.002	0.01	1.22	24.2	2	1.5	208	0.90	<0.05	6.90	0.688	1.4
S727320		23.2	64.2	<0.002	0.06	0.64	13.8	4	3.9	49.3	1.61	0.05	16.90	1.070	2.8
S727321		10.4	47.7	<0.002	0.01	0.98	22.8	1	1.5	205	0.95	0.05	6.72	0.668	1.4
S727322		11.5	50.5	<0.002	0.01	1.15	24.5	2	1.6	210	0.95	<0.05	6.80	0.705	1.5
S727323		10.8	46.0	<0.002	0.01	1.16	23.8	2	1.5	208	0.85	<0.05	6.54	0.677	1.4
S727324		11.5	53.3	<0.002	0.01	1.20	24.5	1	1.6	224	0.92	<0.05	6.71	0.709	1.3
S727325		10.0	51.6	<0.002	0.01	1.09	23.8	1	1.5	218	0.95	<0.05	6.53	0.726	1.3
S727326		12.9	59.9	<0.002	0.01	1.70	23.7	2	1.6	209	1.06	0.05	7.46	0.714	1.3
S727327		11.5	52.2	<0.002	0.01	0.86	21.0	2	1.6	221	1.23	<0.05	7.29	0.757	1.3
S727328		12.3	54.0	<0.002	<0.01	0.91	22.7	2	1.6	220	1.23	0.05	7.52	0.778	1.3
S727329		10.9	48.5	<0.002	0.01	1.08	22.9	1	1.6	220	0.94	0.05	6.87	0.686	1.4
S727330		11.1	53.5	<0.002	0.01	1.15	22.3	1	1.5	226	1.01	<0.05	6.90	0.732	1.6
S727331		11.1	52.7	<0.002	0.01	0.93	21.6	1	1.5	227	1.09	<0.05	7.13	0.705	1.4
S727332		9.4	44.2	<0.002	<0.01	1.22	25.3	2	1.5	225	0.98	<0.05	5.95	0.723	1.1
S727333		9.4	46.1	<0.002	0.01	0.97	22.7	1	1.4	217	0.89	0.05	6.16	0.686	1.1
S727334		9.4	45.5	<0.002	0.01	0.76	21.1	1	1.3	242	0.96	<0.05	6.66	0.709	1.3
S727335		8.9	47.3	<0.002	0.02	0.66	23.1	1	1.3	229	0.89	<0.05	6.40	0.670	1.4
S727336		9.3	47.4	<0.002	0.01	1.17	26.0	2	1.5	215	0.82	0.06	5.85	0.708	1.2
S727337		9.4	52.9	<0.002	0.01	0.96	23.9	1	1.4	222	0.87	0.06	6.22	0.687	1.6
S727338		9.7	41.4	<0.002	0.01	1.01	25.0	1	1.5	237	0.92	<0.05	5.74	0.726	1.3
S727339		9.7	35.6	<0.002	0.01	1.16	26.5	1	1.5	208	0.83	<0.05	5.36	0.654	1.1
S727340		6.4	46.9	<0.002	<0.01	0.09	6.2	1	0.4	380	0.21	<0.05	1.34	0.141	0.3
S727341		10.6	40.8	<0.002	0.01	1.12	26.3	1	1.5	208	0.94	<0.05	6.10	0.648	1.1
S727342		9.8	47.4	<0.002	0.01	1.11	25.1	1	1.5	217	0.99	<0.05	6.67	0.696	1.3
S727343		11.2	44.1	<0.002	0.01	1.19	26.1	1	1.5	204	0.91	<0.05	6.62	0.644	1.2
S727344		9.7	43.9	<0.002	0.01	1.01	24.5	1	1.5	215	0.99	<0.05	6.56	0.709	1.4
S727345		12.6	67.6	<0.002	0.01	0.55	19.4	1	1.5	213	1.18	<0.05	9.27	0.664	1.8
S727346		9.3	51.1	<0.002	0.01	0.93	23.8	1	1.5	205	1.05	<0.05	7.03	0.708	1.5
S727347		9.2	49.7	<0.002	0.01	0.81	23.5	1	1.5	202	1.01	<0.05	6.49	0.675	1.4
S727348		8.7	42.2	<0.002	<0.01	1.04	26.4	1	1.5	201	0.94	<0.05	6.15	0.704	1.2
S727349		9.3	48.7	<0.002	0.01	0.91	23.7	1	1.5	206	1.02	<0.05	6.62	0.708	1.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727310		151	0.7	18.9	99	156.5
S727311		146	0.7	20.9	105	158.5
S727312		183	0.8	20.1	110	142.5
S727313		177	0.8	20.7	100	136.5
S727314		172	0.8	19.6	105	132.5
S727315		167	0.9	21.7	100	150.5
S727316		174	0.8	21.8	107	148.5
S727317		171	0.8	21.4	108	139.5
S727318		175	0.8	20.9	114	149.5
S727319		189	0.8	21.3	119	134.5
S727320		165	2.3	11.6	46	171.5
S727321		185	0.8	19.8	116	144.0
S727322		184	1.2	23.6	115	133.5
S727323		181	1.1	21.3	109	131.0
S727324		187	0.8	20.3	112	136.0
S727325		179	0.9	20.5	105	132.5
S727326		184	0.8	21.0	119	148.5
S727327		171	0.7	20.9	106	154.0
S727328		175	0.7	22.3	107	159.0
S727329		178	0.8	20.5	118	134.0
S727330		176	0.7	20.9	118	143.5
S727331		163	0.7	21.2	105	143.5
S727332		187	0.8	21.4	106	132.0
S727333		180	0.7	19.3	110	130.0
S727334		164	0.7	20.0	96	147.5
S727335		178	0.7	19.9	104	128.0
S727336		201	1.0	21.1	116	128.5
S727337		184	0.8	20.5	110	130.5
S727338		190	0.8	21.1	99	129.0
S727339		186	0.8	19.7	105	128.5
S727340		37	0.3	5.9	20	38.1
S727341		184	0.9	20.5	106	139.5
S727342		179	0.9	21.0	98	141.5
S727343		187	0.8	20.0	109	134.5
S727344		174	0.8	20.9	93	148.5
S727345		140	0.7	21.6	101	169.0
S727346		168	0.8	20.3	99	154.0
S727347		175	0.7	19.8	105	135.5
S727348		187	0.9	21.6	104	138.5
S727349		174	0.8	20.9	101	137.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727350		1.31	0.006	0.07	7.04	18.3	410	1.30	0.08	2.21	0.20	54.0	41.2	316	1.55	87.4
S727351		1.13	0.007	0.06	6.87	15.7	420	1.34	0.08	2.25	0.20	58.1	40.1	267	1.39	77.7
S727352		0.98	0.004	0.03	6.88	12.9	420	1.33	0.09	2.25	0.21	61.5	37.7	279	1.51	72.2
S727353		0.95	0.007	0.01	6.84	10.6	400	1.29	0.07	2.51	0.17	65.8	33.3	249	1.26	68.9
S727354		1.42	0.004	0.06	7.12	15.5	430	1.44	0.11	2.35	0.21	64.0	38.4	239	1.58	82.4
S727355		1.17	0.010	0.06	7.23	15.2	450	1.35	0.11	2.27	0.22	61.5	38.2	221	1.53	82.1
S727356		1.48	0.007	0.03	7.13	16.7	430	1.26	0.08	2.50	0.20	59.5	39.9	265	1.48	94.9
S727357		1.20	0.008	0.02	6.78	13.0	390	1.23	0.07	2.62	0.14	59.8	37.3	241	1.07	65.9
S727358		1.06	0.005	0.04	6.92	15.0	350	1.11	0.07	2.71	0.20	48.1	42.0	228	1.10	88.9
S727359		1.13	0.008	0.05	6.68	11.4	350	1.09	0.07	2.61	0.16	50.8	37.3	256	1.10	77.0
S727360		1.08	0.006	0.06	7.08	12.5	360	1.11	0.07	2.70	0.20	54.8	40.6	254	1.16	81.2
S727361		0.95	0.026	0.06	6.83	14.3	400	1.25	0.09	2.36	0.15	64.8	35.4	240	1.37	75.4
S727362		0.89	0.005	0.04	6.93	12.5	440	1.41	0.10	2.21	0.18	60.7	35.0	253	1.70	81.3
S727363		1.05	0.012	0.06	6.75	16.7	460	1.46	0.13	2.21	0.23	65.1	38.7	249	1.88	85.4
S727364		1.16	0.005	0.08	6.67	21.0	360	1.05	0.06	2.76	0.24	45.3	50.4	422	1.38	105.5
S727365		1.25	0.004	0.03	6.72	7.7	430	1.34	0.07	2.44	0.16	66.2	32.4	246	1.37	67.9
S727366		1.24	0.007	0.03	6.39	8.4	440	1.12	0.08	2.95	0.22	62.8	31.4	201	1.01	87.2
S727367		1.37	0.005	0.05	6.92	12.6	400	1.22	0.08	2.32	0.18	60.1	38.4	198	1.30	73.1
S727368		1.11	0.004	0.03	7.01	12.5	400	1.12	0.08	2.42	0.19	54.6	36.0	207	1.36	75.5
S727369		1.16	0.010	0.06	7.04	10.8	410	1.16	0.08	2.38	0.20	57.3	36.4	188	1.22	74.3
S727370		1.18	0.004	0.05	6.88	10.9	420	1.16	0.07	2.34	0.20	58.7	34.5	201	1.29	70.9
S727371		1.20	0.006	0.05	7.02	13.6	410	1.17	0.08	2.37	0.21	52.4	38.4	191	1.28	87.8
S727372		1.02	0.005	0.06	6.98	12.8	410	1.19	0.08	2.36	0.22	57.2	36.7	217	1.46	80.1
S727373		1.00	0.004	0.06	6.96	10.5	440	1.28	0.08	2.16	0.18	57.4	32.1	220	1.53	69.3
S727374		1.37	0.004	0.07	7.14	13.2	460	1.40	0.10	2.14	0.21	62.3	34.4	233	1.78	77.7
S727375		1.33	0.002	0.07	7.80	9.6	550	1.60	0.09	2.13	0.24	78.3	30.7	219	1.93	66.4
S727376		1.07	0.003	0.09	7.76	10.3	530	1.83	0.08	2.28	0.21	73.4	30.6	207	1.78	69.5
S727377		1.24	0.007	0.06	8.09	14.2	440	1.21	0.08	2.45	0.23	64.3	40.4	250	1.50	86.6
S727378		1.12	0.003	0.08	7.88	12.4	500	1.25	0.09	2.35	0.22	69.8	35.6	212	1.64	74.8
S727379		1.06	0.004	0.05	7.50	9.1	490	1.22	0.08	2.19	0.15	72.6	27.6	201	1.48	50.6
S727380		0.06	0.397	0.58	7.84	37.3	2970	3.01	5.62	0.61	0.35	104.0	15.4	17	6.83	1580
S727381		1.17	0.005	0.05	7.73	15.6	410	1.22	0.08	2.41	0.21	59.5	41.0	249	1.33	86.2
S727382		1.15	0.009	0.05	7.36	8.7	490	1.38	0.08	2.25	0.24	81.6	32.3	212	1.53	57.3
S727383		1.27	0.005	0.06	7.52	10.3	460	1.31	0.08	2.34	0.19	71.7	35.3	237	1.44	78.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727350		7.45	19.20	0.14	3.6	0.074	1.08	25.1	22.6	2.64	1220	0.70	1.71	16.2	150.5	890
S727351		7.23	19.60	0.13	3.9	0.069	1.10	25.7	22.4	2.36	1240	0.70	1.80	17.7	131.0	960
S727352		6.94	19.50	0.14	4.0	0.077	1.13	27.4	22.5	2.30	1000	0.67	1.80	18.4	123.0	900
S727353		6.69	18.85	0.14	4.0	0.076	1.01	29.4	18.4	2.13	1120	0.56	2.03	21.4	95.9	890
S727354		7.35	19.90	0.16	4.0	0.077	1.19	29.6	22.4	2.30	1200	0.80	1.83	18.1	108.5	980
S727355		7.07	19.80	0.14	3.9	0.073	1.18	28.4	21.9	2.17	1260	0.75	1.76	16.6	99.6	900
S727356		7.28	18.90	0.15	3.9	0.073	1.18	26.4	22.0	2.52	1280	0.66	1.76	17.5	123.5	910
S727357		6.36	18.15	0.15	3.6	0.068	1.05	26.9	18.6	2.22	1120	0.55	1.85	16.9	98.7	790
S727358		7.23	18.70	0.14	3.2	0.065	0.96	21.3	19.7	2.45	1250	0.69	1.62	14.4	104.0	850
S727359		6.73	18.10	0.13	3.6	0.066	0.99	22.7	19.2	2.42	1060	0.64	1.68	14.9	106.5	840
S727360		7.19	19.20	0.14	3.5	0.065	1.03	24.3	20.2	2.54	1180	0.68	1.74	15.7	112.0	910
S727361		6.50	19.05	0.16	4.2	0.071	1.10	30.8	19.9	2.09	1020	0.71	1.81	17.3	99.5	800
S727362		6.67	19.25	0.15	4.1	0.067	1.29	30.2	22.6	2.20	1070	0.92	1.76	17.4	105.5	910
S727363		6.68	19.70	0.14	4.6	0.068	1.37	30.3	23.3	2.25	1120	0.87	1.65	16.7	113.5	830
S727364		7.72	17.90	0.11	3.1	0.063	0.93	19.7	20.7	3.80	1400	0.81	1.51	14.2	242	860
S727365		5.78	18.20	0.17	3.9	0.061	1.23	30.0	20.4	1.99	1020	0.72	1.88	17.6	86.8	850
S727366		5.52	17.25	0.15	3.7	0.064	1.08	29.0	16.9	1.95	879	0.49	1.97	16.7	70.6	890
S727367		6.62	20.1	0.16	3.6	0.071	1.10	25.7	20.9	2.20	1200	0.65	1.79	15.3	96.6	870
S727368		6.69	18.40	0.16	3.4	0.067	1.10	24.9	19.9	2.28	1200	0.63	1.73	14.3	96.0	870
S727369		6.74	19.30	0.15	3.7	0.072	1.07	24.7	19.9	2.11	1210	0.73	1.79	15.0	83.8	910
S727370		6.37	18.15	0.14	3.5	0.068	1.14	24.8	19.2	2.11	1200	0.69	1.81	14.4	90.8	880
S727371		6.98	19.30	0.13	3.4	0.065	1.06	22.9	20.4	2.17	1370	0.86	1.74	13.5	92.3	960
S727372		6.64	19.05	0.14	3.5	0.072	1.13	24.8	20.3	2.22	1220	0.76	1.74	13.9	97.6	880
S727373		6.57	19.15	0.13	4.1	0.063	1.24	28.7	21.9	2.14	974	0.82	1.72	16.7	95.1	850
S727374		6.70	19.45	0.17	4.3	0.066	1.31	30.4	23.3	2.24	1120	1.04	1.72	16.3	108.5	910
S727375		6.43	18.25	0.15	4.3	0.064	1.70	39.5	22.9	2.10	964	1.21	1.90	17.9	101.0	1100
S727376		6.48	18.40	0.14	4.4	0.066	1.60	37.8	21.8	2.10	960	1.06	1.93	19.0	96.5	1100
S727377		7.57	17.75	0.13	3.6	0.070	1.25	29.7	19.6	2.50	1340	0.85	1.87	14.6	120.5	950
S727378		6.85	17.95	0.13	3.9	0.067	1.51	33.9	20.2	2.25	1160	1.09	1.93	16.6	107.5	1080
S727379		6.02	17.35	0.13	4.1	0.068	1.47	35.4	18.8	1.88	936	0.90	2.00	17.6	83.9	940
S727380		4.26	25.3	0.19	7.0	0.672	3.02	52.0	18.3	0.27	389	3.19	2.56	18.8	9.0	300
S727381		7.23	17.40	0.13	3.1	0.073	1.13	26.3	18.2	2.40	1340	0.75	1.86	14.0	122.0	1010
S727382		6.01	17.65	0.15	4.3	0.067	1.52	38.8	20.1	2.00	1080	0.99	1.96	18.3	101.0	1110
S727383		6.50	17.20	0.14	4.0	0.067	1.33	33.4	19.0	2.18	1160	0.79	1.90	16.9	110.0	990



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127860

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
S727350		7.8	39.3	<0.002	0.01	1.54	27.4	1	1.5	175.5	1.03	<0.05	5.41	0.739	0.28	1.1
S727351		8.6	34.5	<0.002	<0.01	1.34	26.0	1	1.6	185.5	1.13	0.05	5.59	0.760	0.27	1.1
S727352		8.5	39.2	<0.002	0.01	1.26	26.8	1	1.6	183.5	1.15	<0.05	6.12	0.776	0.24	1.2
S727353		7.1	35.3	<0.002	0.01	1.02	26.7	1	1.7	207	1.33	0.05	5.10	0.895	0.19	1.2
S727354		9.0	41.8	<0.002	<0.01	1.28	27.3	1	1.7	186.5	1.18	<0.05	6.10	0.763	0.28	1.2
S727355		8.7	44.3	<0.002	0.01	1.40	27.4	1	1.6	186.5	1.08	<0.05	6.18	0.722	0.25	1.2
S727356		8.4	40.3	<0.002	<0.01	1.39	26.5	1	1.5	187.0	1.08	<0.05	5.78	0.720	0.25	1.1
S727357		7.7	35.6	<0.002	0.01	1.16	26.6	1	1.5	203	1.08	<0.05	5.23	0.737	0.22	1.2
S727358		6.9	26.0	<0.002	<0.01	1.25	28.0	1	1.3	191.5	0.88	<0.05	4.65	0.694	0.21	1.0
S727359		7.2	28.1	<0.002	<0.01	1.02	26.8	1	1.4	188.5	0.96	<0.05	4.89	0.717	0.21	1.1
S727360		7.1	31.1	0.002	<0.01	1.10	27.6	1	1.4	194.5	0.98	<0.05	5.03	0.743	0.21	1.1
S727361		8.5	44.3	<0.002	0.01	1.27	26.9	1	1.6	198.5	1.22	<0.05	6.36	0.754	0.28	1.3
S727362		9.5	52.4	0.002	0.01	1.00	25.7	1	1.7	186.5	1.13	<0.05	7.11	0.709	0.31	1.5
S727363		11.0	50.3	<0.002	0.01	1.26	25.2	1	1.7	172.0	1.08	<0.05	7.67	0.662	0.36	1.5
S727364		6.4	24.6	<0.002	0.01	1.47	25.9	1	1.4	182.5	0.83	<0.05	4.02	0.726	0.23	0.9
S727365		9.4	46.3	<0.002	<0.01	0.65	22.9	1	1.5	219	1.17	<0.05	6.69	0.698	0.26	1.5
S727366		8.8	37.2	<0.002	<0.01	0.73	23.9	1	1.4	248	1.04	0.06	5.46	0.708	0.22	1.3
S727367		8.6	36.0	<0.002	<0.01	1.05	27.1	1	1.5	206	0.93	<0.05	5.58	0.674	0.23	1.1
S727368		7.7	40.3	<0.002	<0.01	0.95	25.0	1	1.4	198.5	0.89	<0.05	5.44	0.670	0.25	1.0
S727369		7.6	34.9	0.002	0.01	1.02	26.4	1	1.4	212	0.94	<0.05	5.23	0.700	0.22	1.1
S727370		8.2	35.0	<0.002	0.01	0.98	23.7	1	1.4	215	0.89	<0.05	5.36	0.665	0.24	1.1
S727371		7.8	31.1	<0.002	<0.01	1.21	26.1	1	1.4	214	0.84	0.05	4.90	0.688	0.25	1.2
S727372		8.3	37.8	<0.002	0.01	1.01	25.3	1	1.4	204	0.89	<0.05	5.55	0.663	0.25	1.1
S727373		8.9	45.0	<0.002	0.01	0.93	24.0	1	1.5	192.5	1.08	<0.05	6.48	0.685	0.27	1.4
S727374		9.7	53.2	<0.002	0.01	1.04	24.6	2	1.5	192.0	1.04	<0.05	6.99	0.678	0.31	1.5
S727375		12.4	70.4	<0.002	0.01	0.72	23.0	1	1.6	213	1.08	0.05	7.88	0.696	0.37	1.7
S727376		11.2	64.1	<0.002	0.01	0.72	24.3	2	1.6	220	1.11	<0.05	7.83	0.753	0.33	1.6
S727377		8.7	48.2	<0.002	0.01	1.16	27.8	1	1.5	213	0.86	<0.05	5.40	0.742	0.25	1.2
S727378		10.4	58.9	<0.002	0.01	0.94	24.7	1	1.6	220	0.98	<0.05	6.32	0.727	0.32	1.4
S727379		10.0	54.3	<0.002	0.01	0.75	23.3	1	1.5	227	1.07	<0.05	6.57	0.730	0.28	1.5
S727380		31.0	150.5	<0.002	0.07	2.09	5.1	4	4.0	170.5	1.31	0.08	14.50	0.127	0.80	5.0
S727381		8.1	36.4	<0.002	<0.01	1.28	27.5	1	1.5	215	0.83	<0.05	4.58	0.710	0.24	1.0
S727382		10.8	58.3	<0.002	<0.01	0.68	23.5	2	1.6	222	1.13	<0.05	7.20	0.732	0.31	1.4
S727383		9.4	51.4	<0.002	0.01	0.86	25.4	2	1.5	217	1.02	<0.05	5.99	0.725	0.27	1.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127860

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S727350		201	0.7	22.1	109	137.0
S727351		197	0.7	22.1	106	142.0
S727352		192	0.7	22.3	103	148.0
S727353		193	0.7	23.4	86	148.5
S727354		199	0.7	23.3	107	148.5
S727355		194	0.8	21.7	105	136.5
S727356		200	0.7	22.0	107	137.5
S727357		187	0.7	21.3	85	132.5
S727358		207	0.6	19.7	100	114.5
S727359		195	0.6	19.9	96	128.0
S727360		206	0.7	21.2	100	128.0
S727361		187	1.0	23.4	91	146.0
S727362		179	0.9	22.7	105	150.0
S727363		175	1.0	21.6	106	162.0
S727364		212	0.7	19.3	118	114.0
S727365		161	0.7	22.0	90	140.0
S727366		169	0.6	22.4	96	136.0
S727367		186	0.8	21.6	98	131.5
S727368		187	0.7	20.5	100	123.0
S727369		189	0.7	21.0	101	130.5
S727370		178	0.8	20.4	96	128.0
S727371		194	0.8	21.1	108	124.5
S727372		182	0.8	21.2	104	129.0
S727373		175	0.7	21.5	108	141.5
S727374		177	0.8	22.4	108	153.0
S727375		163	0.7	23.0	117	171.0
S727376		168	0.7	23.8	120	176.5
S727377		198	0.7	21.8	122	144.5
S727378		179	0.7	22.7	120	155.5
S727379		160	0.7	22.4	99	161.5
S727380		10	2.8	17.3	147	271
S727381		193	0.7	21.4	112	125.0
S727382		161	0.7	22.7	102	166.5
S727383		178	0.7	23.1	103	155.0



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127860

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16127861

Project: QK-2016-TS-002

This report is for 91 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127861

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728320		2.04	0.005	0.07	7.08	5.1	540	1.79	0.10	2.15	0.13	116.5	23.4	208	1.68	36.2
S728321		1.67	0.010	0.12	7.24	23.6	560	1.41	0.17	1.78	0.30	74.4	26.0	257	2.00	54.8
S728322		2.34	<0.001	0.07	7.24	4.7	580	1.93	0.10	2.03	0.15	91.5	22.2	177	2.00	39.1
S728323		1.61	0.004	0.08	7.06	7.3	550	1.59	0.11	1.97	0.21	90.4	28.5	332	2.29	58.7
S728324		1.52	0.007	0.03	6.93	4.5	520	1.83	0.08	2.06	0.11	100.0	21.0	180	1.51	30.0
S728325		1.47	<0.001	0.07	7.15	8.4	570	1.69	0.11	1.97	0.16	92.9	24.7	196	2.12	41.6
S728326		1.75	<0.001	0.08	6.89	5.5	540	1.85	0.10	2.00	0.20	98.7	28.8	213	2.11	49.6
S728327		1.36	0.002	0.06	7.21	7.6	520	1.64	0.11	2.07	0.15	92.6	25.8	201	1.78	44.4
S728328		1.16	0.009	0.08	7.08	9.4	520	1.64	0.12	1.92	0.16	87.2	21.7	172	1.91	52.7
S728329		1.47	0.002	0.09	7.85	14.3	550	1.72	0.16	1.56	0.18	77.7	31.7	228	2.84	71.6
S728330		1.34	<0.001	0.05	6.98	6.6	520	1.82	0.08	1.80	0.08	103.0	23.7	222	1.77	40.8
S728331		0.04	0.391	0.54	7.49	35.7	2790	2.97	5.62	0.60	0.38	92.6	14.2	19	6.98	1480
S728332		1.47	0.002	0.05	7.04	4.8	540	1.39	0.10	1.96	0.14	79.3	21.0	166	1.75	41.5
S728333		1.42	0.003	0.06	7.17	5.0	510	1.45	0.09	2.17	0.15	69.7	26.7	221	1.99	78.7
S728334		1.13	0.005	0.06	6.64	3.1	500	1.56	0.07	2.03	0.10	90.5	18.4	233	1.37	27.3
S728335		1.47	0.001	0.04	6.80	4.3	490	1.43	0.08	2.12	0.16	81.4	24.3	199	1.34	42.0
S728336		1.40	0.001	0.03	6.68	3.8	470	1.38	0.08	2.41	0.14	88.4	20.7	214	1.19	30.3
S728337		2.41	0.008	0.08	6.64	11.5	500	1.46	0.11	2.48	0.20	87.3	20.4	175	1.70	89.0
S728338		1.57	0.002	0.04	7.24	10.5	400	1.10	0.08	2.56	0.15	54.4	32.7	232	1.47	77.2
S728339		1.59	0.001	0.06	6.72	4.4	520	1.67	0.09	2.10	0.18	95.2	24.5	219	1.63	41.8
S728340		1.40	0.006	0.06	7.28	5.4	510	1.34	0.09	1.78	0.20	79.8	21.9	101	1.85	36.8
S728341		1.64	0.003	0.04	7.33	4.0	530	1.37	0.09	2.03	0.13	74.8	20.0	93	1.68	39.2
S728342		1.59	0.002	0.05	7.18	3.5	550	1.50	0.10	1.95	0.12	86.6	16.3	100	1.90	33.7
S728343		1.42	<0.001	0.07	6.97	3.4	550	1.58	0.10	2.02	0.13	95.9	15.7	90	1.65	30.4
S728344		1.69	<0.001	0.10	7.35	3.6	610	1.72	0.10	2.00	0.13	104.0	17.2	96	2.11	36.6
S728345		1.35	<0.001	0.07	7.23	3.5	610	1.75	0.10	1.87	0.12	86.5	17.2	92	1.91	34.5
S728346		1.50	0.001	0.07	7.25	4.5	550	1.66	0.09	1.93	0.14	83.7	18.6	114	1.83	41.5
S728347		1.33	0.001	0.07	7.61	5.6	560	1.88	0.10	1.84	0.16	85.9	24.3	149	2.15	58.8
S728348		1.58	0.118	0.05	7.90	7.1	520	1.80	0.09	1.76	0.21	78.5	27.7	171	1.81	50.4
S728349		1.39	0.001	0.09	7.29	6.4	430	2.05	0.08	2.05	0.18	89.0	28.4	269	1.46	47.7
S728350		1.32	<0.001	0.11	7.27	5.9	500	1.75	0.10	1.86	0.14	90.6	17.6	118	1.92	42.1
S728351		0.08	0.001	0.03	6.28	0.7	390	0.94	0.05	1.88	0.04	19.45	5.3	40	0.77	6.0
S728352		1.25	<0.001	0.03	7.06	2.6	460	1.31	0.07	2.19	0.15	85.5	19.5	85	1.13	27.3
S728353		1.48	0.002	0.04	7.09	3.3	380	1.32	0.06	2.45	0.11	100.5	19.9	183	1.03	48.6
S728354		1.36	<0.001	0.05	8.06	4.7	510	1.56	0.09	2.18	0.14	96.0	28.4	183	1.42	54.6
S728355		1.40	0.001	0.06	7.92	4.9	520	1.64	0.09	1.85	0.13	88.8	25.2	98	2.10	63.2
S728356		1.51	<0.001	0.08	7.14	4.4	530	2.12	0.09	2.14	0.13	113.0	19.8	143	1.72	35.2
S728357		1.32	<0.001	0.05	7.27	3.1	550	1.82	0.08	2.02	0.10	106.0	17.1	102	1.87	31.4
S728358		1.53	0.029	0.06	7.00	4.8	550	1.90	0.09	2.06	0.15	128.0	20.2	114	2.06	44.1
S728359		1.60	0.002	0.06	7.70	5.6	590	1.76	0.09	2.04	0.15	92.0	26.5	210	2.00	62.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728320		5.21	19.65	0.18	5.9	0.065	1.56	64.0	23.6	1.65	855	0.71	2.30	51.7	76.8	1510
S728321		5.61	18.45	0.15	4.0	0.067	1.85	36.4	22.5	1.66	1000	0.52	1.90	23.7	88.6	1370
S728322		5.02	20.3	0.16	5.2	0.057	1.69	47.7	26.8	1.66	783	1.02	2.23	37.5	73.8	1380
S728323		5.13	19.50	0.15	4.9	0.057	1.57	44.8	28.9	2.45	958	0.63	1.97	24.6	126.0	1150
S728324		4.53	19.40	0.17	5.6	0.061	1.53	48.5	22.8	1.40	738	0.73	2.33	34.1	62.0	1330
S728325		5.09	21.1	0.15	5.7	0.063	1.63	47.9	27.8	1.65	718	0.96	2.10	31.1	76.8	1270
S728326		5.45	20.4	0.17	5.4	0.064	1.63	48.9	28.4	1.85	983	1.32	2.02	32.9	98.9	1490
S728327		5.70	20.1	0.15	4.7	0.064	1.44	46.5	25.9	1.96	884	0.80	2.09	35.4	71.8	1530
S728328		5.34	18.80	0.16	4.1	0.059	1.54	44.9	25.0	1.70	762	1.01	2.01	43.4	65.8	1340
S728329		6.54	20.8	0.13	3.9	0.063	1.59	41.5	31.2	2.19	894	0.86	1.72	23.7	89.4	1070
S728330		4.99	19.30	0.14	5.0	0.064	1.43	52.5	27.2	1.65	831	0.74	2.17	37.5	78.4	1280
S728331		4.01	25.5	0.19	6.9	0.626	2.92	46.6	21.4	0.27	361	3.20	2.43	18.6	11.2	280
S728332		4.58	17.75	0.14	4.7	0.051	1.56	38.4	22.9	1.52	681	0.40	2.07	23.0	60.4	1020
S728333		5.51	19.15	0.14	4.1	0.059	1.47	36.4	26.7	2.09	852	0.71	1.94	23.3	78.0	1070
S728334		4.53	18.25	0.16	5.0	0.052	1.45	46.3	22.3	1.51	631	0.71	2.17	37.0	60.1	1210
S728335		5.08	17.35	0.13	4.3	0.055	1.37	38.6	20.0	1.70	889	0.57	2.08	26.9	66.7	1140
S728336		4.79	17.20	0.15	5.1	0.055	1.33	42.1	18.6	1.55	806	0.52	2.12	27.4	59.2	1240
S728337		4.74	16.95	0.14	5.2	0.053	1.50	43.3	21.3	1.64	884	0.55	2.03	30.8	58.3	1320
S728338		6.19	17.00	0.12	3.0	0.059	1.10	26.6	21.4	2.51	1050	0.51	1.79	16.3	86.2	890
S728339		5.19	18.15	0.17	5.0	0.056	1.46	46.1	23.4	1.77	963	0.77	2.02	49.0	80.0	1460
S728340		4.91	19.25	0.15	3.9	0.055	1.54	39.7	24.2	1.45	814	0.61	2.06	21.9	46.3	1030
S728341		4.56	18.80	0.13	4.2	0.052	1.56	37.2	22.3	1.48	576	0.46	2.11	20.9	41.2	970
S728342		4.35	18.75	0.16	5.0	0.048	1.62	46.8	23.9	1.27	659	0.62	2.14	21.3	38.7	1150
S728343		4.06	18.95	0.15	5.3	0.047	1.68	49.5	22.1	1.17	688	0.58	2.22	40.5	36.3	1260
S728344		4.33	18.40	0.22	5.3	0.056	1.81	53.2	24.5	1.20	735	0.94	2.24	45.3	42.4	1230
S728345		4.23	18.70	0.17	4.8	0.056	1.88	44.2	23.6	1.18	725	0.63	2.29	29.2	42.1	1160
S728346		4.72	18.35	0.19	4.8	0.055	1.64	43.2	22.3	1.29	752	0.73	2.15	28.1	43.5	1140
S728347		5.52	19.50	0.21	4.5	0.059	1.61	43.9	26.8	1.60	1010	0.97	2.01	29.1	55.8	1160
S728348		6.18	19.95	0.19	4.3	0.062	1.52	37.8	25.1	1.76	1200	1.00	2.02	24.3	60.2	1180
S728349		6.13	19.20	0.21	4.5	0.068	1.23	43.8	22.0	1.81	1020	0.74	2.02	33.7	69.6	1450
S728350		5.13	18.90	0.20	4.9	0.056	1.48	51.1	24.7	1.40	693	0.89	2.12	32.9	42.7	1260
S728351		1.59	13.75	0.08	1.7	0.018	1.21	8.5	6.7	0.50	285	0.09	2.71	3.1	18.2	260
S728352		4.88	18.20	0.13	4.0	0.057	1.33	37.7	16.1	1.27	857	0.43	2.23	20.3	30.8	1120
S728353		5.92	18.70	0.20	5.7	0.076	1.09	50.9	16.7	1.47	925	0.43	1.99	31.5	44.4	1150
S728354		6.19	21.4	0.14	4.9	0.069	1.39	41.9	20.4	2.07	1300	0.57	2.26	29.9	76.6	1290
S728355		6.05	21.6	0.15	4.5	0.073	1.58	44.8	24.8	1.65	976	0.75	2.09	27.4	44.4	1350
S728356		5.23	18.45	0.20	4.7	0.065	1.54	49.2	22.8	1.49	923	0.84	2.23	57.6	51.1	1800
S728357		4.53	18.65	0.23	4.9	0.056	1.74	56.7	24.2	1.34	738	0.81	2.38	36.6	40.6	1420
S728358		4.93	19.10	0.28	5.2	0.063	1.66	81.6	23.9	1.39	848	1.01	2.31	39.2	53.8	1460
S728359		5.71	18.90	0.21	4.7	0.061	1.71	44.1	26.1	1.91	1000	0.58	2.14	24.8	81.5	1080



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728320		14.6	62.9	<0.002	0.01	0.34	18.1	1	1.8	276	2.16	<0.05	10.85	0.825	2.2
S728321		11.5	66.9	<0.002	0.01	2.34	24.1	1	1.6	256	1.12	<0.05	6.94	0.628	1.4
S728322		13.7	71.8	<0.002	0.01	0.36	17.6	1	1.7	266	1.74	<0.05	10.65	0.698	2.1
S728323		12.5	66.8	<0.002	0.01	0.81	21.4	2	1.6	253	1.38	<0.05	8.65	0.623	1.7
S728324		12.9	60.6	<0.002	0.01	0.39	17.9	1	1.7	276	1.76	<0.05	9.43	0.749	1.9
S728325		13.9	71.6	<0.002	0.01	0.47	19.5	2	1.8	261	1.67	<0.05	9.86	0.719	1.9
S728326		13.6	75.6	<0.002	<0.01	0.37	19.2	1	1.8	238	1.85	<0.05	9.98	0.746	1.8
S728327		12.0	57.1	<0.002	0.01	0.58	22.2	2	1.8	261	1.93	<0.05	8.80	0.784	2.0
S728328		12.2	62.0	<0.002	0.01	0.67	20.3	2	1.6	253	1.49	0.05	9.31	0.689	1.9
S728329		12.3	71.3	<0.002	0.01	0.89	24.5	1	1.7	211	1.39	<0.05	9.29	0.692	2.0
S728330		12.4	57.2	<0.002	0.01	0.28	18.7	1	1.7	233	1.82	<0.05	9.08	0.763	1.9
S728331		28.4	137.0	<0.002	0.07	2.03	5.2	3	3.9	159.0	1.35	0.08	14.00	0.124	4.7
S728332		11.7	59.4	<0.002	0.01	0.52	18.9	1	1.5	277	1.29	<0.05	8.30	0.626	1.5
S728333		10.7	60.2	<0.002	0.01	0.51	25.6	1	1.5	265	1.15	0.06	7.62	0.599	1.5
S728334		10.7	54.4	<0.002	<0.01	0.28	17.1	1	1.7	258	1.79	<0.05	8.18	0.777	2.0
S728335		9.9	48.5	<0.002	<0.01	0.56	21.1	2	1.5	251	1.45	<0.05	7.03	0.741	1.3
S728336		10.2	47.3	<0.002	<0.01	0.52	20.9	1	1.5	278	1.52	<0.05	8.06	0.770	1.5
S728337		12.6	50.4	<0.002	0.01	0.81	19.5	1	1.5	315	1.71	0.05	7.60	0.722	1.8
S728338		8.1	40.5	<0.002	<0.01	0.94	30.3	1	1.2	234	0.87	0.06	4.41	0.627	1.2
S728339		11.6	59.2	<0.002	0.01	0.41	18.3	1	1.7	244	3.27	<0.05	8.43	0.748	3.8
S728340		11.4	62.3	<0.002	0.01	2.66	17.4	1	1.5	253	1.14	<0.05	8.26	0.622	1.6
S728341		11.2	58.3	<0.002	0.01	0.55	16.9	1	1.5	282	1.07	<0.05	8.33	0.561	1.6
S728342		13.0	63.0	<0.002	0.01	0.41	15.3	1	1.6	293	1.16	<0.05	9.66	0.569	1.7
S728343		13.5	64.3	<0.002	0.01	0.35	14.6	1	1.6	306	1.37	<0.05	12.45	0.587	2.2
S728344		16.0	70.8	0.003	0.01	0.45	15.6	1	1.8	318	1.37	<0.05	11.55	0.566	1.9
S728345		14.0	65.0	<0.002	<0.01	0.44	15.1	1	1.8	313	1.17	<0.05	10.35	0.548	1.6
S728346		12.9	59.0	<0.002	0.01	0.53	17.4	2	1.7	293	1.29	<0.05	9.70	0.639	1.8
S728347		12.3	63.4	<0.002	0.01	0.65	20.1	2	1.9	252	1.81	<0.05	9.57	0.683	2.5
S728348		10.8	52.8	<0.002	0.01	1.13	21.8	1	1.9	228	1.40	<0.05	8.06	0.754	1.6
S728349		10.3	45.0	<0.002	<0.01	1.16	23.2	1	2.0	236	1.95	<0.05	7.91	0.938	1.8
S728350		13.7	61.1	<0.002	0.01	1.26	17.7	2	1.8	279	1.51	0.07	12.90	0.674	2.1
S728351		6.3	45.9	<0.002	<0.01	0.10	6.0	1	0.4	383	0.23	<0.05	1.16	0.163	0.3
S728352		9.8	46.8	<0.002	<0.01	0.51	20.2	1	1.5	320	1.28	<0.05	7.63	0.680	1.4
S728353		9.8	34.5	<0.002	0.01	0.92	24.0	1	1.7	316	1.46	<0.05	9.35	0.845	1.7
S728354		12.1	49.0	<0.002	0.01	1.01	24.5	1	1.7	326	1.55	<0.05	8.50	0.758	1.7
S728355		12.1	64.2	<0.002	0.01	0.89	22.0	1	1.7	278	1.45	<0.05	8.73	0.687	2.1
S728356		14.4	58.1	<0.002	0.01	0.52	17.6	1	1.9	295	2.68	<0.05	15.10	0.707	4.2
S728357		14.0	68.9	<0.002	0.01	0.32	15.9	1	1.7	290	1.70	<0.05	11.15	0.663	2.2
S728358		15.1	68.8	<0.002	<0.01	0.35	17.2	2	1.9	286	1.77	<0.05	12.40	0.720	2.3
S728359		13.3	61.4	<0.002	0.01	0.40	18.6	1	1.7	255	1.51	<0.05	11.45	0.699	1.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S728320		136	0.7	25.5	91	227
S728321		164	2.6	22.2	89	153.0
S728322		131	0.7	22.9	100	195.5
S728323		138	1.1	23.0	85	175.5
S728324		125	0.7	22.9	72	209
S728325		136	1.0	24.1	94	213
S728326		136	0.8	24.5	102	204
S728327		162	1.1	24.1	97	180.0
S728328		151	1.1	23.7	91	157.0
S728329		185	1.6	23.6	117	144.5
S728330		139	0.7	22.0	89	193.5
S728331		10	2.8	16.0	136	254
S728332		130	0.9	20.5	73	176.0
S728333		158	0.9	21.1	87	145.0
S728334		126	0.7	21.5	76	185.5
S728335		149	0.9	20.9	80	160.0
S728336		141	0.8	22.8	74	189.0
S728337		140	2.1	22.2	78	187.5
S728338		196	1.0	19.6	105	106.5
S728339		140	0.7	23.4	91	188.5
S728340		138	0.7	19.1	96	142.0
S728341		128	0.7	18.7	82	158.5
S728342		115	0.7	21.2	75	184.5
S728343		110	0.6	21.2	72	198.5
S728344		110	0.7	21.9	86	203
S728345		108	0.7	20.9	76	183.5
S728346		122	0.7	22.4	84	183.5
S728347		141	0.8	24.9	99	173.5
S728348		170	0.8	23.2	110	170.5
S728349		178	0.8	26.0	107	176.0
S728350		133	0.6	22.3	101	193.0
S728351		41	0.2	6.3	20	62.7
S728352		147	0.5	21.9	75	157.0
S728353		171	0.6	26.7	83	219
S728354		167	0.6	24.5	105	198.0
S728355		163	0.6	23.8	112	177.0
S728356		138	0.7	22.7	94	185.0
S728357		121	0.6	21.5	86	192.0
S728358		129	0.6	27.2	93	203
S728359		146	0.8	22.4	100	183.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728360		1.39	0.002	0.07	7.06	3.2	500	1.63	0.07	2.36	0.22	87.1	24.7	143	1.46	59.7
S728361		1.50	0.001	0.06	6.90	3.5	480	1.57	0.06	2.62	0.12	92.5	18.2	163	1.04	27.9
S728362		1.33	0.001	0.07	7.30	6.6	550	1.77	0.10	2.00	0.18	94.1	26.6	168	2.21	66.6
S728363		1.80	0.001	0.06	6.95	5.2	560	1.87	0.09	1.98	0.13	102.0	23.4	217	1.98	51.1
S728364		1.81	<0.001	0.07	7.16	5.9	590	1.80	0.10	1.98	0.18	89.6	25.0	198	2.23	56.6
S728365		1.36	0.001	0.04	7.03	3.5	510	1.56	0.07	2.41	0.16	91.3	19.6	204	1.33	36.2
S728366		1.48	0.003	0.04	6.94	4.6	520	1.70	0.08	2.23	0.20	98.1	20.5	159	1.42	32.6
S728367		1.68	0.001	0.04	6.62	3.5	460	1.43	0.07	2.59	0.16	97.6	19.8	205	1.12	32.3
S728368		1.49	<0.001	0.03	7.12	4.8	540	1.70	0.08	1.92	0.12	128.5	17.1	98	2.03	27.8
S728369		1.21	<0.001	0.06	7.52	4.8	520	1.55	0.07	2.25	0.21	85.7	25.8	99	1.43	58.0
S728370		1.40	0.002	0.04	6.82	5.6	480	1.51	0.07	1.93	0.14	90.4	18.6	118	1.13	42.4
S728371		0.05	0.021	0.14	8.14	13.7	190	0.84	0.31	0.18	0.02	36.2	27.8	542	4.00	364
S728372		1.79	<0.001	0.11	7.21	6.2	610	1.92	0.13	1.72	0.24	90.2	26.2	174	3.07	76.0
S728373		1.71	0.001	0.07	7.53	5.2	530	1.58	0.10	2.10	0.16	77.0	27.6	170	2.05	69.8
S728374		1.84	0.004	0.07	7.17	5.9	520	1.69	0.08	2.09	0.16	92.7	23.7	170	2.02	65.3
S728375		1.18	0.001	0.06	7.09	6.9	610	1.59	0.10	1.85	0.13	81.9	19.3	109	2.15	41.3
S728376		1.27	0.415	0.23	6.38	438	430	1.42	0.31	2.11	0.29	76.0	25.4	145	1.25	127.0
S728377		1.46	0.002	0.04	6.66	4.4	510	1.72	0.07	2.10	0.13	97.5	21.9	264	1.59	30.2
S728378		1.30	0.009	0.12	7.39	25.9	620	1.79	0.14	1.79	0.24	90.7	27.3	162	2.67	90.6
S728379		1.54	0.011	0.09	7.32	21.2	590	1.67	0.10	2.03	0.22	104.5	25.4	221	1.94	47.3
S728380		1.36	0.003	0.08	7.21	10.7	590	1.76	0.14	1.87	0.17	87.3	26.8	213	2.35	51.2
S728381		1.42	0.002	0.07	7.29	7.4	590	1.49	0.11	2.00	0.20	79.3	29.9	142	2.62	68.7
S728382		1.58	<0.001	0.04	6.78	5.6	490	1.14	0.07	2.47	0.19	70.4	29.1	130	1.45	55.8
S728383		1.46	0.003	0.05	7.23	5.7	540	1.52	0.10	2.20	0.13	79.4	26.7	190	1.93	61.9
S728384		1.17	0.002	0.08	7.73	9.6	640	1.84	0.19	1.69	0.20	86.4	27.3	135	3.62	72.5
S728385		1.36	0.004	0.07	6.82	5.1	540	1.49	0.10	2.00	0.18	98.9	27.5	215	1.86	42.9
S728386		1.27	0.004	0.04	6.57	8.1	480	1.34	0.10	2.06	0.19	76.8	22.2	152	1.35	61.2
S728387		1.28	0.003	0.07	7.11	6.3	580	1.72	0.12	1.96	0.17	89.2	23.0	140	2.08	43.3
S728388		1.27	0.001	0.04	6.94	3.3	550	1.61	0.08	2.09	0.12	108.5	22.2	209	1.64	37.6
S728389		1.37	0.002	0.07	7.19	6.8	570	1.65	0.10	1.96	0.15	88.5	25.6	189	2.01	46.4
S728390		1.21	0.002	0.10	7.42	8.2	530	1.80	0.12	1.86	0.16	119.0	26.3	137	1.62	48.4
S728391		0.08	<0.001	0.03	6.27	0.7	400	1.03	0.05	1.84	0.03	21.6	5.9	40	0.84	6.7
S728392		1.62	0.001	0.05	7.18	4.4	550	1.74	0.08	2.02	0.11	96.7	21.7	183	1.77	33.4
S728393		1.18	0.002	0.06	7.36	5.2	520	1.55	0.09	2.23	0.16	82.3	24.0	162	1.80	42.8
S728394		1.28	0.002	0.04	7.01	3.9	510	1.38	0.08	2.19	0.18	80.4	22.9	199	1.54	39.5
S728395		1.16	0.003	0.04	7.02	4.4	480	1.38	0.07	2.32	0.13	70.3	19.6	135	1.35	41.9
S728396		1.55	0.004	0.06	6.91	3.9	460	1.28	0.08	2.70	0.15	67.6	26.8	150	1.34	76.0
S728397		1.29	<0.001	0.05	6.93	4.0	530	1.51	0.08	1.98	0.12	87.6	22.4	174	1.77	39.4
S728398		1.26	0.001	0.06	6.90	4.0	550	1.40	0.09	2.21	0.17	85.1	23.4	146	1.62	45.9
S728399		1.35	0.003	0.07	7.21	3.3	480	1.37	0.07	2.63	0.14	72.7	26.6	161	1.62	92.2



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728360		5.17	18.20	0.17	4.9	0.063	1.43	42.2	19.7	1.60	977	0.47	2.25	25.6	55.2	1250
S728361		4.54	17.75	0.20	5.5	0.061	1.38	46.1	16.5	1.34	733	0.53	2.50	51.5	46.3	1350
S728362		5.51	19.35	0.21	4.6	0.063	1.63	46.2	27.1	1.76	968	0.75	2.03	27.4	75.0	1200
S728363		5.40	18.80	0.21	5.0	0.064	1.51	53.5	25.0	1.69	719	0.86	2.10	35.8	82.4	1310
S728364		5.08	18.20	0.20	4.5	0.056	1.73	45.7	26.2	1.70	908	0.91	2.03	26.5	91.9	1150
S728365		4.84	17.45	0.19	5.3	0.060	1.42	46.4	18.8	1.49	730	0.45	2.32	35.2	56.4	1170
S728366		4.72	17.70	0.22	5.0	0.055	1.48	48.5	20.5	1.48	823	0.56	2.40	36.3	58.3	1460
S728367		4.67	16.95	0.20	4.5	0.058	1.29	49.1	17.3	1.54	762	0.51	2.24	31.0	60.3	1300
S728368		4.56	18.75	0.23	5.7	0.057	1.67	57.5	25.9	1.23	750	0.75	2.33	35.4	46.6	1260
S728369		5.60	19.45	0.20	4.2	0.068	1.53	38.0	20.6	1.70	1020	0.61	2.20	39.3	44.7	1230
S728370		4.79	17.50	0.19	4.9	0.064	1.38	46.6	17.9	1.37	674	0.49	2.21	31.2	40.6	1240
S728371		14.20	19.60	0.14	4.1	0.091	0.40	17.7	21.7	0.22	455	2.38	0.10	14.8	226	420
S728372		5.37	19.05	0.18	4.5	0.054	1.80	51.1	30.5	1.68	728	1.19	1.84	28.2	95.8	1190
S728373		5.27	18.60	0.18	4.2	0.055	1.58	38.7	25.8	1.96	885	0.83	2.08	21.9	80.7	1060
S728374		5.34	19.05	0.19	5.5	0.058	1.53	52.2	26.1	1.75	864	0.83	2.12	34.7	70.5	1320
S728375		3.95	17.50	0.18	5.1	0.047	1.84	42.9	22.8	1.23	645	0.37	2.15	16.9	53.1	1010
S728376		7.05	16.15	0.19	4.1	0.072	1.29	37.2	17.8	1.38	935	1.28	1.87	21.2	57.8	1130
S728377		5.10	17.25	0.21	5.4	0.057	1.41	46.4	21.3	1.60	820	0.67	2.17	37.7	79.3	1430
S728378		5.65	19.60	0.21	4.2	0.067	1.78	49.5	32.8	2.09	762	0.68	1.92	27.0	82.3	1340
S728379		5.42	18.65	0.22	4.9	0.069	1.68	52.8	23.9	1.72	909	0.70	2.20	30.5	82.9	1370
S728380		5.33	20.5	0.19	5.2	0.062	1.78	43.3	29.3	1.75	845	0.80	2.07	27.5	91.7	1250
S728381		5.82	19.80	0.18	4.1	0.061	1.65	37.6	29.5	1.91	967	0.50	1.94	20.6	66.5	1120
S728382		5.75	18.35	0.16	4.0	0.074	1.31	31.7	20.2	1.85	1000	0.34	1.94	20.1	50.1	1150
S728383		5.46	19.35	0.19	4.9	0.063	1.48	38.5	24.0	1.86	788	0.65	2.08	21.2	81.9	1080
S728384		5.46	21.5	0.18	4.1	0.057	2.01	40.9	37.2	1.74	778	0.63	1.75	16.4	67.0	1020
S728385		5.16	19.05	0.18	5.5	0.051	1.58	44.7	24.5	1.67	959	0.70	2.01	27.1	89.7	1240
S728386		4.96	17.25	0.17	4.2	0.063	1.36	34.0	19.2	1.55	880	0.45	2.03	23.4	60.9	1090
S728387		4.95	20.3	0.21	4.7	0.057	1.69	43.2	26.7	1.57	780	0.56	2.14	23.8	65.1	1200
S728388		4.88	19.55	0.19	5.3	0.062	1.53	53.5	24.0	1.69	710	0.54	2.25	33.4	75.6	1370
S728389		5.43	20.1	0.19	5.2	0.057	1.62	42.8	27.5	1.75	813	0.68	2.14	28.4	79.9	1170
S728390		5.06	21.2	0.20	4.9	0.065	1.64	51.8	25.1	1.64	919	0.65	2.21	80.4	60.0	1680
S728391		1.59	14.30	0.11	1.3	0.017	1.27	9.5	7.8	0.50	263	<0.05	2.73	3.5	19.0	270
S728392		5.13	19.85	0.19	5.3	0.061	1.60	48.3	25.2	1.54	828	0.65	2.25	33.5	58.9	1250
S728393		5.45	19.80	0.17	4.3	0.066	1.47	40.9	24.7	1.78	822	0.60	2.24	46.4	64.4	1190
S728394		5.15	18.55	0.18	4.8	0.058	1.43	38.5	22.3	1.74	783	0.49	2.17	25.5	70.7	1190
S728395		4.45	18.35	0.15	4.4	0.050	1.43	32.8	18.9	1.41	711	0.40	2.32	22.9	48.4	980
S728396		5.62	17.90	0.16	3.8	0.063	1.26	31.7	21.2	1.93	975	0.50	2.03	25.8	57.2	1110
S728397		5.13	19.05	0.18	4.4	0.056	1.51	43.6	24.7	1.64	732	0.64	2.04	30.6	69.5	1090
S728398		4.71	18.75	0.17	4.7	0.054	1.58	37.6	22.0	1.47	955	0.47	2.19	27.7	59.2	1070
S728399		5.81	18.40	0.19	4.1	0.061	1.35	35.0	22.6	1.93	922	0.49	2.03	21.8	60.3	1130



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728360		10.9	46.5	<0.002	0.01	0.39	22.7	1	1.7	280	1.38	<0.05	8.37	0.685	1.5
S728361		11.0	44.1	<0.002	<0.01	0.42	21.1	1	1.8	306	1.76	<0.05	9.56	0.803	1.9
S728362		13.1	65.7	<0.002	0.01	0.38	19.5	2	1.8	246	1.49	<0.05	10.25	0.676	2.0
S728363		12.8	61.5	<0.002	<0.01	0.40	19.2	1	1.9	250	1.93	<0.05	10.80	0.775	2.0
S728364		13.1	68.1	<0.002	0.01	0.43	18.4	1	1.8	252	1.51	<0.05	9.88	0.647	1.6
S728365		11.0	48.3	<0.002	0.01	0.41	20.0	1	1.7	279	1.92	<0.05	9.10	0.802	2.1
S728366		12.7	50.2	<0.002	0.01	0.38	17.9	1	1.8	286	2.24	<0.05	11.10	0.730	2.7
S728367		10.2	43.1	<0.002	<0.01	0.44	20.9	1	1.7	272	1.64	<0.05	8.35	0.771	1.6
S728368		16.0	70.6	<0.002	0.01	0.31	15.4	1	1.8	299	1.66	<0.05	12.60	0.653	2.3
S728369		10.8	49.5	<0.002	<0.01	0.48	21.3	1	1.7	284	2.24	<0.05	9.21	0.712	2.9
S728370		11.0	46.2	<0.002	<0.01	0.51	19.3	1	1.8	283	1.45	<0.05	8.64	0.760	1.6
S728371		20.1	41.2	<0.002	0.05	0.87	48.9	3	2.7	32.3	1.13	0.07	15.30	0.767	2.7
S728372		15.9	79.6	<0.002	0.02	0.45	17.2	2	1.8	245	1.41	0.06	12.00	0.561	3.0
S728373		12.7	55.2	<0.002	0.01	0.68	22.0	1	1.6	250	1.23	<0.05	9.43	0.600	1.7
S728374		12.9	62.9	<0.002	0.01	0.52	20.2	1	1.8	268	1.84	<0.05	10.70	0.674	2.4
S728375		14.2	66.9	<0.002	0.01	3.99	15.1	1	1.6	316	0.97	<0.05	10.10	0.473	1.5
S728376		23.9	43.9	<0.002	0.01	1.20	20.5	2	1.8	253	1.20	0.20	6.91	0.687	1.7
S728377		12.1	54.3	<0.002	0.01	0.32	17.6	1	1.8	258	1.96	<0.05	9.44	0.848	1.9
S728378		15.3	64.0	<0.002	0.02	0.79	21.2	2	1.7	269	1.36	<0.05	10.40	0.609	2.2
S728379		14.7	63.3	<0.002	0.01	0.57	18.6	2	1.8	273	1.69	<0.05	15.75	0.750	2.0
S728380		14.0	66.8	<0.002	<0.01	0.62	20.1	1	1.8	250	1.57	<0.05	9.50	0.704	1.9
S728381		12.2	58.7	<0.002	0.01	0.63	24.2	1	1.5	254	1.16	<0.05	8.19	0.652	1.6
S728382		9.1	41.0	<0.002	<0.01	0.71	30.6	1	1.4	270	1.03	<0.05	6.28	0.787	1.2
S728383		11.5	55.2	<0.002	0.01	0.59	24.1	1	1.5	279	1.23	<0.05	8.07	0.709	1.6
S728384		15.8	83.4	<0.002	<0.01	0.65	20.8	1	1.8	254	1.00	<0.05	11.40	0.520	1.8
S728385		12.4	60.9	<0.002	<0.01	0.46	20.1	1	1.6	247	1.64	<0.05	9.91	0.736	1.9
S728386		10.9	46.2	<0.002	0.01	0.67	21.1	1	1.4	281	1.35	<0.05	6.68	0.610	1.8
S728387		13.0	67.4	<0.002	<0.01	0.52	19.5	1	1.6	279	1.30	<0.05	9.63	0.607	1.8
S728388		11.8	55.1	<0.002	<0.01	0.44	20.5	1	1.8	281	1.80	<0.05	9.76	0.784	1.8
S728389		13.0	59.7	<0.002	0.01	0.51	20.3	1	1.7	260	1.51	<0.05	8.64	0.701	1.8
S728390		15.0	60.4	<0.002	0.01	0.44	20.2	1	1.9	276	2.33	<0.05	13.05	0.657	2.5
S728391		6.9	46.8	<0.002	<0.01	0.10	6.7	<1	0.5	388	0.24	<0.05	1.60	0.175	0.4
S728392		12.5	63.2	<0.002	0.01	0.33	19.3	1	1.7	276	1.72	<0.05	9.44	0.738	2.1
S728393		11.5	58.7	<0.002	0.01	0.55	23.9	1	1.7	290	1.56	<0.05	8.86	0.668	1.9
S728394		15.5	53.0	<0.002	0.01	0.50	21.8	1	1.5	271	1.43	<0.05	7.43	0.730	1.6
S728395		9.5	45.7	<0.002	<0.01	0.87	20.7	1	1.4	291	1.18	<0.05	6.38	0.594	1.3
S728396		9.0	38.3	<0.002	<0.01	0.67	26.8	1	1.4	291	1.15	<0.05	6.30	0.623	1.4
S728397		11.4	60.0	<0.002	0.01	0.38	20.1	1	1.7	254	1.54	<0.05	8.71	0.690	1.7
S728398		11.9	53.0	<0.002	<0.01	0.42	19.8	1	1.5	302	1.21	<0.05	8.38	0.603	1.4
S728399		10.0	49.0	<0.002	<0.01	0.53	25.9	1	1.4	286	1.21	<0.05	6.76	0.649	1.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728360		150	0.9	26.2	82	192.0
S728361		144	0.7	25.3	66	215
S728362		144	0.8	23.7	106	176.5
S728363		141	0.8	24.8	96	203
S728364		129	0.8	22.9	90	180.5
S728365		140	0.8	24.3	75	207
S728366		128	0.7	23.5	81	196.5
S728367		141	0.8	24.5	71	180.0
S728368		116	0.6	22.3	93	220
S728369		164	0.8	22.7	94	168.0
S728370		139	0.8	24.4	80	185.5
S728371		224	1.7	10.8	42	151.5
S728372		129	0.8	23.3	116	180.0
S728373		151	0.9	22.8	94	160.0
S728374		143	0.8	24.3	98	206
S728375		102	1.2	19.6	69	195.0
S728376		147	6.5	23.1	134	170.0
S728377		134	0.7	23.0	82	217
S728378		161	1.9	24.6	119	168.0
S728379		139	1.1	24.9	95	199.5
S728380		140	1.2	23.2	99	195.0
S728381		173	0.9	22.0	104	150.0
S728382		201	0.9	25.0	82	150.0
S728383		158	0.8	23.0	89	179.5
S728384		150	1.4	21.8	104	147.0
S728385		138	0.9	23.7	86	203
S728386		140	1.1	20.2	77	159.5
S728387		132	1.0	22.0	89	175.0
S728388		139	0.9	24.2	84	195.0
S728389		142	0.9	22.2	94	190.5
S728390		136	0.7	24.2	89	182.0
S728391		42	0.2	7.5	21	52.2
S728392		134	0.7	22.7	90	198.0
S728393		153	0.8	22.6	92	158.0
S728394		147	0.8	22.2	89	180.5
S728395		138	0.8	18.7	68	164.5
S728396		168	0.9	20.3	88	141.0
S728397		138	0.7	21.8	84	163.5
S728398		129	0.7	20.5	76	171.5
S728399		167	0.7	20.9	93	150.5



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728400		1.71	<0.001	0.07	7.16	4.8	570	1.81	0.10	2.02	0.19	97.7	27.2	164	2.11	41.9
S728401		1.47	<0.001	0.07	7.68	5.7	620	1.89	0.11	2.12	0.24	96.4	33.3	218	2.45	74.4
S728402		1.11	<0.001	0.06	7.99	5.4	610	1.78	0.13	2.01	0.15	74.2	30.8	208	2.75	66.6
S728403		1.34	<0.001	0.04	7.00	2.7	500	1.80	0.08	2.42	0.15	85.6	21.8	157	1.35	30.6
S728404		1.21	<0.001	0.04	7.20	3.7	520	1.42	0.09	2.52	0.15	75.6	24.3	144	1.64	48.2
S728405		1.66	0.003	0.05	6.87	3.3	500	1.25	0.09	2.85	0.14	68.2	23.8	166	1.44	70.1
S728406		1.08	0.001	0.05	6.75	3.3	580	1.47	0.11	2.16	0.13	87.0	19.6	115	1.87	39.9
S728407		1.32	0.001	0.04	6.86	3.3	580	1.53	0.10	2.14	0.14	84.5	18.3	115	1.77	32.6
S728408		1.32	<0.001	0.06	7.39	4.9	660	1.54	0.14	1.77	0.14	88.5	19.8	97	2.80	44.4
S728409		1.17	<0.001	0.04	6.75	3.4	510	1.40	0.07	2.24	0.13	95.4	21.1	208	1.43	27.8
S728410		1.20	<0.001	0.03	7.01	4.6	530	1.32	0.07	2.04	0.13	85.4	23.0	251	1.52	23.7



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127861

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S728400		5.22	20.7	0.20	4.8	0.071	1.70	46.2	27.8	1.66	879	0.98	2.19	29.6	78.1
S728401		6.27	20.6	0.18	4.7	0.065	1.73	47.2	32.1	2.13	1280	0.83	1.96	30.5	103.0
S728402		6.26	21.4	0.19	4.0	0.060	1.82	40.1	34.4	2.19	871	0.61	1.83	22.4	94.4
S728403		4.96	18.60	0.18	4.4	0.055	1.45	40.6	20.8	1.63	798	0.59	2.28	27.2	57.1
S728404		5.34	18.85	0.18	4.4	0.063	1.47	38.0	22.8	1.77	907	0.43	2.17	20.9	57.7
S728405		5.25	17.65	0.18	4.3	0.048	1.37	31.9	19.0	1.81	846	0.40	2.14	18.0	57.9
S728406		4.04	18.15	0.18	5.3	0.054	1.68	39.1	21.1	1.16	699	0.39	2.16	16.7	45.6
S728407		4.03	18.50	0.19	5.3	0.049	1.69	38.7	21.0	1.21	662	0.40	2.21	18.7	46.1
S728408		4.25	19.80	0.17	4.9	0.046	2.00	42.1	27.4	1.19	806	0.56	2.03	13.6	51.0
S728409		4.77	18.85	0.20	5.8	0.064	1.45	45.7	21.2	1.51	744	0.52	2.21	32.3	63.6
S728410		5.46	18.65	0.20	5.2	0.052	1.51	40.5	23.7	1.67	784	0.62	2.15	29.1	67.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127861

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728400		13.9	66.8	<0.002	<0.01	0.36	20.1	1	1.8	262	1.61	<0.05	9.68	0.717	1.8
S728401		13.8	68.5	<0.002	0.01	0.52	24.2	1	1.7	252	1.58	<0.05	9.27	0.725	1.8
S728402		12.4	76.3	<0.002	0.01	0.50	23.8	1	1.7	241	1.21	<0.05	9.49	0.589	1.8
S728403		10.3	52.9	<0.002	<0.01	0.38	21.1	1	1.6	289	1.48	<0.05	7.01	0.706	1.6
S728404		10.8	53.2	<0.002	0.01	0.45	23.0	1	1.5	308	1.14	<0.05	7.00	0.596	1.7
S728405		10.1	38.4	<0.002	<0.01	0.45	23.3	1	1.4	334	1.01	<0.05	7.77	0.554	1.5
S728406		13.5	58.3	<0.002	<0.01	0.33	16.9	1	1.5	312	0.98	<0.05	9.24	0.516	1.5
S728407		13.1	60.4	<0.002	<0.01	0.33	16.4	1	1.5	316	1.09	<0.05	8.98	0.538	1.6
S728408		15.6	77.5	<0.002	0.01	0.35	15.5	1	1.6	306	0.87	<0.05	10.35	0.418	1.7
S728409		11.5	53.8	<0.002	<0.01	0.33	20.0	1	1.7	275	1.76	<0.05	9.22	0.776	2.0
S728410		10.7	56.4	<0.002	<0.01	0.30	19.1	1	1.6	254	1.69	<0.05	8.03	0.786	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127861

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
S728400		140	0.8	23.3	97	180.0
S728401		170	0.9	25.1	113	177.5
S728402		169	1.0	21.0	116	153.5
S728403		143	0.7	21.6	83	166.5
S728404		147	0.7	21.9	89	166.5
S728405		149	0.8	20.1	81	155.0
S728406		108	0.7	20.4	66	195.0
S728407		109	0.7	20.2	68	191.5
S728408		97	0.8	20.6	81	174.5
S728409		132	0.7	23.9	76	214
S728410		137	0.7	20.6	85	196.5



2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

LABORATORY ADDRESSES

Applies to Method:

Applies to Method:



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Project: QK-2016-TS-002

This report is for 83 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
DRY-21	High Temperature Drying
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127863

Sample Description	Method Analyte Units LOR	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S728751		1.30	0.11	7.87	39.0	480	1.70	0.15	2.04	0.26	62.1	35.7	234	2.24	95.0	6.71
S728752		1.77	0.08	7.73	5.2	560	1.75	0.09	1.88	0.26	87.1	28.4	184	2.40	63.4	5.46
S728753		1.64	0.06	7.64	7.0	480	1.59	0.08	2.16	0.19	67.5	29.1	168	1.79	63.8	6.14
S728754		1.66	0.06	7.62	10.8	470	1.42	0.09	2.21	0.24	65.5	31.4	168	1.78	69.2	6.19
S728755		1.90	0.08	7.79	11.5	510	1.57	0.10	2.09	0.20	68.6	27.8	171	2.10	68.9	6.07
S728756		1.46	0.09	7.92	15.2	480	1.62	0.11	2.16	0.24	66.5	35.9	179	2.18	91.2	6.73
S728757		1.60	0.08	7.96	11.5	590	1.69	0.10	1.86	0.22	71.9	30.0	159	2.43	66.2	6.16
S728758		1.63	0.08	7.92	10.8	510	1.58	0.09	2.21	0.21	74.3	31.8	170	1.98	66.4	6.05
S728759		1.32	0.12	8.22	18.1	490	1.60	0.14	2.27	0.33	65.9	42.6	204	2.17	102.0	7.35
S728760		1.41	0.09	8.03	17.5	470	1.43	0.12	2.19	0.31	60.7	39.3	201	2.06	97.9	7.19
S728761		1.37	0.11	8.03	20.9	450	1.47	0.20	1.85	0.26	65.7	36.0	206	1.93	88.6	7.02
S728762		1.67	0.09	7.97	17.9	450	1.52	0.16	1.88	0.29	63.5	35.7	218	1.79	86.4	6.95
S728763		1.32	0.08	7.74	22.9	400	1.37	0.14	1.88	0.20	56.2	40.6	291	1.73	91.7	7.22
S728764		1.35	0.09	8.05	19.7	430	1.37	0.16	1.86	0.24	64.1	39.1	210	1.72	88.6	7.22
S728765		1.28	0.07	7.68	21.0	410	1.37	0.16	1.84	0.23	60.0	38.7	235	1.58	86.5	6.94
S728766		1.53	0.06	7.41	18.0	400	1.34	0.12	1.88	0.19	63.3	33.4	220	1.48	81.9	6.50
S728767		1.31	0.08	7.46	19.4	470	1.50	0.14	1.87	0.24	66.7	33.2	211	1.85	73.2	6.24
S728768		1.61	0.07	7.56	19.1	450	1.37	0.13	1.97	0.26	59.9	37.3	186	1.85	82.9	6.67
S728769		1.54	0.07	7.31	9.7	500	1.56	0.11	1.76	0.22	69.3	22.7	146	2.03	57.0	5.47
S728770		1.44	0.07	7.58	16.9	440	1.37	0.12	2.15	0.25	57.7	37.1	215	1.96	87.9	6.68
S728771		1.72	0.09	7.84	25.6	490	1.39	0.17	2.04	0.27	62.2	38.9	237	1.97	93.9	7.09
S728772		1.55	0.09	7.59	14.9	440	1.25	0.10	2.26	0.24	60.2	36.6	241	1.77	80.9	6.64
S728773		1.33	0.09	7.91	15.7	490	1.33	0.10	2.07	0.26	57.7	36.8	231	2.07	88.1	6.91
S728774		1.35	0.08	7.73	14.7	440	1.16	0.10	2.01	0.21	53.6	35.9	285	1.98	95.4	7.05
S728775		1.57	0.07	7.14	11.3	400	1.09	0.08	2.24	0.18	55.6	35.1	321	1.47	72.2	6.33
S728776		1.61	0.08	7.34	14.3	400	1.19	0.09	2.27	0.19	56.4	39.1	281	1.60	85.9	6.75
S728777		1.47	0.09	7.29	12.7	480	1.38	0.09	2.16	0.15	72.1	25.0	191	2.05	64.6	5.48
S728778		1.21	0.07	7.22	8.8	440	1.36	0.07	2.38	0.20	65.3	33.3	273	1.53	70.0	5.98
S728779		1.35	0.04	6.82	3.4	460	1.27	0.05	2.32	0.17	68.2	22.8	248	1.29	41.5	4.87
S728780		0.03	0.60	7.52	35.5	2830	2.90	5.69	0.60	0.34	94.4	14.5	20	7.27	1490	4.07
S728781		1.33	0.04	7.06	3.2	520	1.44	0.07	2.75	0.14	77.3	21.5	127	1.45	48.8	5.10
S728782		1.66	0.06	7.65	5.2	620	1.81	0.10	2.11	0.11	85.8	20.5	164	2.18	41.0	4.84
S728783		1.40	0.05	7.32	4.7	590	1.55	0.09	2.33	0.14	88.0	19.8	161	1.68	36.6	4.57
S728784		1.14	0.06	7.31	47.4	520	1.31	0.10	2.50	0.48	67.9	30.0	153	2.39	77.1	5.86
S728785		1.21	0.05	7.31	6.6	510	1.36	0.07	2.33	0.14	65.6	25.2	123	1.75	50.3	5.77
S728786		1.29	0.08	7.91	11.5	610	1.52	0.14	1.85	0.16	75.3	30.2	164	2.94	63.8	5.91
S728787		1.21	0.07	6.84	9.7	550	1.79	0.08	2.02	0.18	127.0	28.5	411	1.60	44.4	5.62
S728788		1.04	0.04	6.87	3.2	510	1.60	0.06	2.12	0.12	94.9	19.2	153	1.37	30.4	4.39
S728789		1.24	0.03	6.78	6.6	470	1.66	0.12	2.36	0.13	84.7	18.8	157	1.38	35.4	4.61
S728790		1.27	0.12	8.01	22.0	440	1.40	0.13	2.07	0.24	61.9	38.5	246	1.86	88.5	7.30



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728751		21.4	0.13	3.9	0.065	1.59	31.8	27.9	2.28	994	1.15	1.67	15.7	106.5	910
S728752		21.3	0.14	5.1	0.059	1.89	44.2	30.3	1.82	729	1.26	1.92	19.0	82.4	1040
S728753		20.4	0.13	4.2	0.058	1.44	32.7	24.8	1.76	966	0.87	1.92	17.7	66.6	1000
S728754		20.0	0.13	4.0	0.061	1.43	31.4	23.8	1.81	1120	0.85	1.94	15.5	70.0	900
S728755		20.8	0.12	4.2	0.062	1.61	34.6	26.5	1.81	917	1.08	1.93	15.1	66.2	950
S728756		20.9	0.15	4.0	0.065	1.46	32.4	26.4	2.02	1150	1.09	1.84	15.4	79.6	930
S728757		21.7	0.13	4.2	0.055	1.82	35.8	31.1	1.84	1000	1.18	1.90	16.5	71.8	1000
S728758		20.7	0.12	4.6	0.057	1.61	34.2	25.5	1.84	1080	1.06	2.02	15.9	70.5	1000
S728759		22.2	0.12	4.0	0.070	1.44	29.8	27.1	2.29	1450	0.91	1.82	14.7	98.3	960
S728760		20.8	0.12	3.7	0.064	1.39	28.3	25.5	2.23	1360	0.83	1.76	13.9	92.9	890
S728761		20.8	0.12	4.2	0.075	1.39	32.0	25.3	1.94	1080	1.07	1.73	16.6	84.6	960
S728762		20.6	0.14	4.1	0.069	1.36	30.1	25.0	2.02	1040	0.95	1.73	15.9	91.5	890
S728763		20.4	0.12	3.7	0.067	1.24	26.8	24.7	2.63	1110	0.82	1.57	13.5	137.0	850
S728764		20.8	0.11	3.9	0.066	1.28	29.5	24.5	2.07	1260	0.92	1.69	15.0	88.3	870
S728765		19.70	0.13	3.7	0.067	1.24	28.0	23.1	2.11	1230	0.88	1.67	14.9	98.5	900
S728766		19.40	0.13	3.7	0.067	1.17	30.2	21.8	2.05	1040	0.71	1.69	14.4	92.1	790
S728767		19.95	0.13	4.2	0.066	1.45	32.3	24.5	1.92	1120	1.01	1.78	15.6	91.7	910
S728768		20.3	0.12	3.6	0.071	1.38	27.7	24.8	2.00	1180	0.89	1.73	14.5	86.3	930
S728769		19.65	0.14	4.3	0.060	1.69	35.7	25.1	1.63	758	1.10	1.79	16.9	60.4	910
S728770		20.5	0.12	3.7	0.068	1.33	25.8	23.7	2.14	1200	0.82	1.73	13.6	98.9	870
S728771		20.2	0.12	4.0	0.075	1.44	29.3	22.3	2.37	1320	1.13	1.75	13.4	121.5	910
S728772		18.85	0.10	3.8	0.071	1.27	27.3	20.4	2.33	1180	0.69	1.78	15.0	112.0	880
S728773		19.60	0.12	3.6	0.076	1.36	27.5	22.3	2.27	1570	0.82	1.70	13.8	107.0	890
S728774		18.95	0.10	3.7	0.074	1.25	26.8	21.3	2.73	1240	0.66	1.63	12.9	145.0	840
S728775		18.00	0.12	3.8	0.058	1.20	27.5	19.0	3.06	1060	0.56	1.75	14.5	177.0	800
S728776		18.70	0.11	3.6	0.070	1.18	25.8	20.2	2.74	1280	0.76	1.77	14.4	145.5	930
S728777		18.40	0.14	4.6	0.060	1.48	35.0	21.3	1.77	746	0.86	1.94	16.7	68.5	890
S728778		18.65	0.11	4.7	0.068	1.35	29.7	20.1	2.34	1080	0.63	1.90	17.5	119.5	900
S728779		17.25	0.11	4.6	0.060	1.44	33.5	17.8	1.82	809	0.58	2.04	18.3	82.6	930
S728780		24.9	0.14	7.1	0.687	2.92	47.0	19.0	0.27	366	3.21	2.47	18.5	9.5	270
S728781		17.50	0.12	4.9	0.064	1.46	36.2	17.5	1.63	899	0.41	2.16	23.3	48.3	1120
S728782		18.90	0.14	5.6	0.055	1.83	44.3	23.6	1.53	754	0.76	2.26	22.3	69.9	1100
S728783		17.85	0.15	5.9	0.058	1.69	40.5	19.3	1.44	863	0.52	2.30	35.4	53.5	1160
S728784		18.05	0.13	4.0	0.075	1.47	32.0	18.9	1.94	1040	0.51	2.11	21.7	62.1	1100
S728785		18.00	0.14	3.9	0.069	1.37	31.3	19.7	1.91	995	0.40	2.11	18.0	54.6	900
S728786		19.75	0.13	4.3	0.061	1.82	35.2	26.0	1.93	1090	0.66	1.89	15.2	72.6	930
S728787		17.35	0.16	5.5	0.066	1.55	65.6	20.8	1.91	1010	1.01	2.07	43.5	107.0	1480
S728788		17.70	0.17	5.5	0.058	1.54	46.9	19.0	1.36	738	0.64	2.33	30.8	60.6	1250
S728789		17.45	0.18	5.0	0.065	1.42	40.7	18.1	1.69	768	0.49	2.11	39.8	59.5	1240
S728790		20.1	0.14	4.1	0.076	1.36	28.6	22.3	2.44	1190	0.87	1.73	15.1	112.5	930



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S728751		65.4	<0.002	0.01	1.46	25.6	2	1.6	192.5	1.02	<0.05	8.02	0.596	0.39	2.0
S728752		79.6	<0.002	0.02	0.55	21.9	1	1.6	218	1.22	<0.05	9.28	0.654	0.42	2.5
S728753		53.6	<0.002	0.01	0.74	22.6	1	1.6	235	1.14	<0.05	7.39	0.684	0.30	1.5
S728754		58.1	<0.002	0.01	1.03	24.7	2	1.5	235	1.01	<0.05	6.98	0.667	0.32	1.5
S728755		63.6	<0.002	0.01	0.95	23.3	1	1.5	228	0.98	<0.05	8.37	0.646	0.36	1.8
S728756		60.2	<0.002	0.01	1.27	26.0	1	1.5	218	0.99	0.05	7.33	0.652	0.36	1.6
S728757		76.4	<0.002	0.01	0.93	22.5	1	1.6	212	1.03	<0.05	8.57	0.625	0.42	2.0
S728758		62.8	<0.002	0.01	0.92	23.5	1	1.5	242	1.05	<0.05	7.86	0.646	0.34	1.7
S728759		53.0	<0.002	0.01	1.30	28.2	1	1.6	219	0.96	<0.05	7.10	0.666	0.40	1.6
S728760		51.1	<0.002	0.01	1.29	26.8	1	1.5	210	0.91	<0.05	6.68	0.651	0.35	1.4
S728761		60.4	<0.002	0.01	1.70	27.4	2	1.7	195.5	1.08	0.06	7.05	0.699	0.35	1.6
S728762		57.5	<0.002	0.01	1.48	27.1	1	1.7	196.0	1.04	0.07	6.82	0.682	0.35	1.6
S728763		52.2	<0.002	0.01	1.65	27.9	1	1.5	178.0	0.87	0.06	5.87	0.642	0.28	1.1
S728764		55.6	<0.002	0.01	1.67	27.6	1	1.6	194.0	1.01	0.07	6.06	0.664	0.33	1.3
S728765		49.2	<0.002	0.01	1.60	26.1	1	1.5	188.5	0.98	0.05	5.95	0.680	0.31	1.2
S728766		48.1	<0.002	0.01	1.37	25.4	2	1.4	196.5	0.95	<0.05	5.86	0.671	0.27	1.2
S728767		57.6	<0.002	0.01	1.17	23.3	1	1.5	205	1.04	<0.05	7.37	0.642	0.32	1.6
S728768		48.3	<0.002	0.01	1.19	24.7	1	1.5	201	0.90	<0.05	6.40	0.635	0.32	1.5
S728769		69.8	<0.002	0.01	0.81	20.6	2	1.5	200	1.03	<0.05	8.32	0.627	0.36	1.7
S728770		46.5	<0.002	0.01	1.41	25.2	1	1.5	202	0.88	0.06	6.13	0.640	0.32	1.3
S728771		62.6	<0.002	<0.01	1.85	24.7	1	1.6	202	0.85	0.11	6.63	0.660	0.32	1.4
S728772		52.7	<0.002	0.01	1.36	23.8	1	1.5	210	0.89	0.05	6.06	0.689	0.28	1.2
S728773		59.1	<0.002	0.01	1.71	24.9	1	1.7	200	0.85	0.08	6.69	0.657	0.34	1.5
S728774		55.2	0.002	0.02	1.35	25.9	1	1.6	181.0	0.78	0.06	6.24	0.651	0.32	1.4
S728775		47.7	<0.002	0.01	1.07	24.7	1	1.5	197.5	0.92	0.06	5.64	0.697	0.26	1.3
S728776		50.0	<0.002	<0.01	1.20	25.8	2	1.7	194.5	0.89	0.08	5.37	0.667	0.27	1.6
S728777		67.8	<0.002	0.01	0.68	20.3	2	1.6	237	0.99	0.10	9.53	0.674	0.35	2.1
S728778		54.6	<0.002	<0.01	0.75	23.0	1	1.6	221	1.05	0.07	6.39	0.716	0.31	1.4
S728779		53.7	<0.002	<0.01	0.41	17.9	1	1.5	249	1.11	0.06	7.78	0.682	0.28	1.6
S728780		144.5	<0.002	0.07	2.08	5.0	4	4.3	162.0	1.27	0.11	14.75	0.123	0.72	5.0
S728781		51.7	<0.002	<0.01	0.39	23.2	1	1.6	297	1.13	<0.05	7.32	0.753	0.29	1.5
S728782		74.0	0.003	0.01	0.39	16.8	2	1.7	295	1.26	0.05	9.84	0.660	0.39	1.9
S728783		61.3	<0.002	0.01	0.39	18.4	2	1.6	326	3.78	0.05	10.70	0.685	0.33	6.3
S728784		54.6	<0.002	<0.01	0.83	26.0	2	1.5	290	1.09	<0.05	5.88	0.734	0.33	1.4
S728785		53.1	0.002	<0.01	0.91	27.3	1	1.5	295	0.95	0.05	6.33	0.742	0.26	1.5
S728786		80.3	<0.002	0.01	0.85	21.5	1	1.6	268	0.91	0.05	9.04	0.573	0.43	1.6
S728787		62.2	<0.002	0.01	0.31	18.0	1	1.9	229	2.11	<0.05	9.06	0.859	0.30	1.9
S728788		61.3	<0.002	<0.01	0.26	16.3	1	1.7	281	1.51	<0.05	8.48	0.732	0.31	2.0
S728789		53.8	<0.002	<0.01	0.64	20.8	1	1.8	311	1.40	0.06	7.87	0.702	0.28	1.8
S728790		58.6	<0.002	0.01	1.77	25.7	1	1.6	196.0	0.90	0.08	6.56	0.706	0.33	1.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
S728751		0.9	20.9	130	142.0	0.026
S728752		0.7	22.2	108	172.5	0.002
S728753		0.6	20.9	107	147.0	<0.001
S728754		0.8	20.8	104	146.5	0.007
S728755		0.8	20.2	110	147.5	0.004
S728756		0.9	21.4	116	144.0	0.011
S728757		0.8	20.0	113	150.0	0.002
S728758		0.8	21.2	105	155.0	0.059
S728759		0.9	21.4	129	140.5	0.005
S728760		0.9	20.3	127	130.5	0.011
S728761		0.9	20.9	121	146.5	0.011
S728762		0.9	20.7	122	146.0	0.006
S728763		0.8	19.4	119	134.0	0.010
S728764		0.8	20.1	122	140.0	0.008
S728765		0.9	19.6	117	132.5	0.013
S728766		0.8	19.8	107	133.0	0.010
S728767		0.8	19.6	108	150.5	0.006
S728768		0.8	19.8	114	131.0	0.005
S728769		0.7	19.8	105	157.0	0.114
S728770		0.8	19.7	120	132.0	0.003
S728771		0.9	19.2	131	145.0	0.007
S728772		0.8	19.3	120	142.5	0.006
S728773		0.9	19.4	134	136.5	0.006
S728774		0.9	19.1	120	140.0	0.002
S728775		0.7	19.3	99	141.0	0.005
S728776		0.9	19.5	108	129.5	0.004
S728777		0.6	20.2	106	170.5	0.003
S728778		0.7	20.4	96	169.0	0.004
S728779		0.6	19.3	75	173.0	0.005
S728780		2.7	15.3	137	264	0.385
S728781		0.7	23.8	75	178.0	0.001
S728782		0.7	20.6	84	206	<0.001
S728783		0.8	20.6	72	211	<0.001
S728784		1.3	22.0	196	143.0	0.007
S728785		1.0	21.5	89	144.5	0.001
S728786		1.2	19.7	108	152.5	0.001
S728787		0.9	25.4	92	213	0.004
S728788		0.6	21.3	72	213	<0.001
S728789		1.9	21.2	71	183.0	0.007
S728790		0.9	19.6	123	148.5	0.012



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S728791		1.44	0.10	7.14	24.2	530	1.56	0.17	2.02	0.14	75.0	22.2	146	1.85	61.8	5.07
S728792		1.33	0.07	7.26	6.7	630	1.55	0.09	2.01	0.17	86.7	22.3	157	2.26	42.3	4.70
S728793		1.39	0.07	7.42	12.2	630	1.65	0.11	2.06	0.17	91.7	21.4	142	1.93	40.6	4.54
S728794		1.18	0.04	6.81	4.2	510	1.47	0.06	2.23	0.14	105.5	22.1	270	1.41	29.4	4.90
S728795		1.31	0.06	7.04	8.5	560	1.46	0.12	2.02	0.12	91.7	19.4	149	1.57	46.0	4.35
S728796		1.40	0.09	7.36	8.4	610	1.71	0.25	1.98	0.24	95.6	27.0	191	2.45	56.4	5.55
S728797		1.65	0.04	6.94	5.5	530	1.55	0.07	2.27	0.18	99.1	24.6	204	1.57	42.0	5.10
S728798		1.57	0.03	6.98	4.2	470	1.48	0.06	2.72	0.16	87.2	29.6	256	1.06	48.9	4.60
S728799		1.59	0.03	6.83	3.9	440	1.41	0.06	2.17	0.15	79.4	21.6	150	1.09	32.8	4.61
S728800		0.12	0.03	6.31	0.8	390	1.11	0.03	1.68	0.03	20.2	5.2	31	0.84	7.6	1.28
S728801		1.63	0.06	7.41	5.4	530	1.49	0.07	2.37	0.20	85.6	29.4	157	1.85	73.6	5.40
S728802		1.61	0.06	7.27	4.9	550	1.62	0.08	2.14	0.19	76.3	28.3	140	1.88	69.5	4.59
S728803		1.59	0.05	7.02	5.2	650	1.52	0.08	2.21	0.18	81.6	28.1	248	1.63	57.7	4.83
S728804		1.58	0.04	7.10	4.6	540	1.66	0.09	2.14	0.17	87.2	24.6	192	1.69	44.5	4.92
S728805		1.48	0.02	6.82	4.4	500	1.64	0.06	2.02	0.12	90.6	24.0	217	1.60	30.7	5.04
S728806		1.70	0.04	7.23	4.7	600	1.57	0.08	2.07	0.13	91.7	19.6	154	1.76	35.8	4.28
S728807		1.76	0.07	7.15	8.3	560	1.49	0.10	1.94	0.17	85.2	25.4	181	1.75	40.0	4.95
S728808		1.50	0.07	6.95	4.1	540	1.42	0.08	2.10	0.13	102.0	23.7	212	1.60	39.0	5.02
S728809		1.50	0.06	6.90	9.1	550	1.46	0.10	1.91	0.16	88.0	20.0	161	1.72	33.3	4.32
S728810		1.33	0.05	6.81	4.0	520	1.54	0.07	2.11	0.17	101.5	23.4	200	1.52	32.4	4.83
S728811		1.63	0.05	7.02	4.8	550	1.54	0.07	2.08	0.11	98.5	24.2	242	1.61	36.8	5.03
S728812		1.66	0.07	7.14	6.6	560	1.59	0.08	2.16	0.15	109.5	24.5	210	1.72	38.2	5.05
S728813		1.60	0.07	7.05	6.5	550	1.51	0.13	1.83	0.16	92.4	23.7	192	2.00	44.3	5.02
S728814		1.55	0.10	7.26	5.6	570	1.55	0.10	1.94	0.15	90.1	22.3	185	2.33	49.8	5.35
S728815		1.50	0.08	7.23	5.0	570	1.57	0.08	2.12	0.18	94.6	23.0	213	2.19	45.8	5.38
S728816		1.64	0.05	7.16	4.5	480	1.19	0.10	2.13	0.17	56.3	34.2	249	2.30	61.3	6.20
S728817		1.35	0.05	7.60	5.0	550	1.71	0.09	2.07	0.12	78.6	26.0	215	2.05	47.9	5.66
S728818		1.62	0.01	7.16	3.4	530	1.81	0.08	1.77	0.10	95.9	26.1	237	1.75	33.2	5.29
S728819		1.73	0.04	7.01	3.3	510	1.60	0.07	2.21	0.13	82.7	21.9	176	1.43	38.4	4.93
S728820		0.06	0.15	8.42	13.7	190	0.78	0.31	0.20	0.02	39.8	30.4	549	3.95	376	14.55
S728821		1.47	0.05	7.41	3.6	550	1.77	0.08	2.16	0.10	88.2	20.2	169	1.68	30.9	4.90
S728822		1.74	0.04	7.32	4.2	530	1.45	0.09	2.06	0.10	86.4	22.5	188	1.88	45.7	5.31
S728823		2.01	0.07	7.33	5.4	580	1.69	0.09	2.09	0.19	94.8	29.7	231	1.93	47.4	5.50
S728824		1.40	0.06	7.42	6.6	570	1.69	0.12	1.96	0.20	89.1	30.2	247	2.17	55.3	5.82
S728825		1.46	0.05	7.84	7.4	610	1.47	0.15	1.89	0.20	89.5	25.6	211	2.17	51.1	5.68
S728826		1.63	0.04	7.11	4.2	530	1.62	0.09	1.89	0.11	84.3	19.9	196	1.59	41.9	5.04
S728827		1.59	0.05	6.95	5.4	510	1.55	0.10	2.07	0.12	96.8	21.9	199	1.46	40.2	4.78
S728828		1.27	0.04	7.26	6.8	550	1.63	0.21	2.09	0.15	101.0	27.3	233	1.72	48.6	5.24
S728829		1.63	0.07	7.32	7.7	560	1.56	0.17	1.93	0.16	76.6	23.6	200	2.03	64.1	5.09
S728830		1.88	0.07	7.21	7.1	560	1.72	0.13	1.96	0.24	95.0	29.3	225	2.05	55.7	5.50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728791		17.85	0.13	4.6	0.069	1.68	37.3	21.6	1.72	882	0.65	1.97	24.7	66.7	1270
S728792		18.15	0.15	4.6	0.057	1.89	42.7	23.9	1.65	644	0.68	2.06	21.8	78.8	1090
S728793		18.70	0.17	5.6	0.053	1.84	43.6	20.2	1.43	841	0.68	2.29	19.6	67.3	1110
S728794		17.65	0.17	6.0	0.055	1.42	46.8	19.2	1.60	821	0.61	2.27	44.4	76.4	1300
S728795		17.15	0.17	5.4	0.062	1.66	44.4	18.6	1.29	705	0.53	2.22	24.3	51.6	1170
S728796		19.45	0.16	4.8	0.064	1.78	47.8	25.9	1.84	1020	1.01	2.02	28.0	95.8	1200
S728797		18.00	0.14	4.8	0.063	1.53	49.9	20.0	1.70	908	0.86	2.21	34.7	85.4	1460
S728798		18.05	0.14	5.0	0.060	1.32	40.7	17.3	1.76	810	0.52	2.18	28.6	109.0	1160
S728799		17.55	0.14	4.7	0.061	1.30	37.0	17.6	1.62	761	0.51	2.33	29.1	52.4	1170
S728800		13.70	0.09	1.4	0.014	1.26	10.5	8.1	0.48	230	0.07	2.79	2.3	17.9	220
S728801		18.70	0.16	4.5	0.063	1.53	42.5	23.9	1.98	920	0.69	2.07	24.8	73.6	1220
S728802		17.90	0.18	4.5	0.056	1.67	36.6	22.8	1.63	767	0.51	2.05	21.1	73.3	1040
S728803		17.35	0.13	5.1	0.057	1.55	40.5	21.8	1.91	857	0.54	2.07	23.0	121.0	1090
S728804		18.55	0.16	5.1	0.071	1.53	42.0	21.1	1.71	767	0.63	2.13	30.8	81.0	1200
S728805		17.95	0.18	5.1	0.067	1.45	37.3	22.3	1.64	818	0.61	2.10	49.9	77.3	1140
S728806		17.80	0.15	6.1	0.049	1.70	46.1	19.6	1.35	762	0.60	2.28	21.3	61.9	1090
S728807		19.20	0.24	4.7	0.059	1.64	42.1	22.9	1.67	934	0.71	2.12	26.1	76.2	1170
S728808		19.20	0.23	5.5	0.058	1.54	50.8	22.4	1.69	805	0.71	2.18	32.3	80.0	1270
S728809		18.80	0.23	4.9	0.059	1.63	42.4	20.9	1.39	816	0.57	2.10	25.1	61.9	1080
S728810		18.95	0.23	5.3	0.055	1.51	48.8	20.5	1.54	867	0.65	2.22	31.1	70.0	1450
S728811		19.00	0.26	5.0	0.057	1.55	47.7	22.0	1.68	819	0.69	2.18	31.3	88.1	1240
S728812		20.0	0.24	5.7	0.061	1.61	54.9	22.4	1.62	847	0.70	2.23	30.5	80.4	1390
S728813		19.00	0.23	4.8	0.058	1.61	48.1	23.7	1.69	806	0.73	1.97	26.9	77.6	1070
S728814		19.80	0.24	5.1	0.061	1.69	47.4	25.3	1.78	684	0.96	2.01	27.9	76.3	1230
S728815		20.8	0.23	5.9	0.069	1.64	50.2	24.6	1.77	784	1.22	2.17	32.3	80.4	1470
S728816		18.85	0.10	3.1	0.059	1.33	24.1	25.2	2.34	876	1.35	1.71	15.0	92.7	790
S728817		20.3	0.11	4.9	0.057	1.56	38.9	26.8	1.86	897	1.05	2.00	23.8	78.0	1010
S728818		19.95	0.12	4.8	0.049	1.50	37.8	27.2	1.77	851	0.83	2.00	27.8	81.0	910
S728819		19.25	0.12	5.0	0.059	1.45	40.6	21.7	1.62	778	0.54	2.07	25.2	62.6	1080
S728820		22.6	0.11	4.5	0.096	0.41	18.1	22.7	0.23	482	2.60	0.10	15.4	230	430
S728821		20.5	0.13	5.7	0.059	1.61	42.1	26.4	1.59	720	0.87	2.32	34.2	62.9	1210
S728822		19.85	0.12	4.8	0.064	1.51	40.7	26.9	1.66	768	0.81	2.09	25.4	61.9	1140
S728823		20.5	0.15	5.2	0.055	1.69	43.8	26.5	1.93	996	0.97	2.04	26.1	99.9	1170
S728824		20.2	0.14	4.7	0.057	1.61	41.9	28.4	2.20	989	0.84	1.88	27.3	104.5	1110
S728825		19.90	0.14	4.9	0.061	1.76	44.3	26.5	1.97	715	0.67	2.00	22.9	96.1	1120
S728826		19.15	0.15	4.8	0.057	1.51	42.5	22.6	1.64	752	0.75	2.11	31.3	67.0	980
S728827		19.35	0.13	5.9	0.056	1.41	46.3	21.5	1.60	780	0.66	2.17	29.4	68.8	1180
S728828		19.80	0.15	5.2	0.056	1.55	44.5	24.8	1.96	964	0.69	2.03	26.7	87.5	1180
S728829		19.70	0.13	4.5	0.052	1.64	37.2	25.1	1.90	787	0.63	1.92	19.9	78.1	1040
S728830		20.2	0.14	5.3	0.055	1.62	44.9	27.0	1.94	1100	0.99	1.91	25.4	99.1	1190



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S728791		67.2	<0.002	<0.01	1.38	19.4	1	1.6	254	1.30	0.07	7.59	0.667	0.35	1.8
S728792		78.3	<0.002	0.01	0.38	15.2	1	1.6	266	1.16	<0.05	9.79	0.567	0.40	1.4
S728793		72.0	<0.002	0.01	0.42	15.5	1	1.7	311	1.14	0.05	9.49	0.572	0.39	1.6
S728794		57.1	<0.002	0.01	0.34	18.0	1	1.8	272	1.97	<0.05	8.93	0.870	0.26	2.0
S728795		60.9	<0.002	0.01	0.56	15.9	2	1.6	291	1.35	0.06	8.91	0.650	0.35	1.8
S728796		80.8	<0.002	0.01	0.42	17.7	2	1.8	242	1.51	0.07	10.40	0.707	0.38	2.1
S728797		65.0	<0.002	<0.01	0.32	18.1	2	1.8	274	1.58	0.05	9.10	0.788	0.35	2.0
S728798		48.7	<0.002	<0.01	0.54	24.1	1	1.6	279	1.35	<0.05	7.55	0.720	0.22	1.7
S728799		49.0	0.002	<0.01	0.40	22.1	1	1.7	252	1.43	<0.05	6.93	0.727	0.24	1.7
S728800		49.1	<0.002	<0.01	0.05	5.2	1	0.4	374	0.19	0.05	1.92	0.133	0.22	0.3
S728801		64.1	<0.002	<0.01	0.51	22.3	2	1.6	246	1.24	0.05	8.72	0.678	0.35	2.0
S728802		67.4	<0.002	0.01	0.42	17.2	1	1.7	247	1.13	<0.05	8.37	0.561	0.35	1.5
S728803		61.8	<0.002	0.01	0.31	17.1	1	1.5	257	1.25	<0.05	9.09	0.638	0.35	1.8
S728804		62.9	<0.002	<0.01	0.45	19.0	1	1.8	255	1.46	0.06	9.02	0.716	0.36	1.8
S728805		59.4	<0.002	0.01	0.32	17.0	2	1.8	243	2.73	0.05	8.79	0.775	0.32	3.6
S728806		66.5	<0.002	0.01	0.28	15.3	2	1.5	313	1.17	0.05	10.60	0.602	0.34	1.9
S728807		64.9	<0.002	0.01	0.51	18.0	2	1.7	246	1.45	<0.05	8.46	0.702	0.34	1.8
S728808		59.4	<0.002	0.01	0.37	18.9	1	1.7	259	1.72	<0.05	9.58	0.800	0.33	2.0
S728809		61.6	<0.002	0.01	0.44	16.4	1	1.6	265	1.33	<0.05	8.96	0.619	0.32	1.8
S728810		56.9	<0.002	<0.01	0.38	17.0	1	1.6	261	1.58	<0.05	8.94	0.726	0.28	1.8
S728811		57.6	<0.002	0.01	0.36	18.2	1	1.6	255	1.66	<0.05	8.95	0.788	0.28	1.9
S728812		62.7	<0.002	0.01	0.43	18.4	1	1.7	273	1.67	<0.05	11.10	0.773	0.33	2.1
S728813		66.6	<0.002	0.01	0.44	17.7	1	1.6	241	1.44	<0.05	10.30	0.669	0.33	2.1
S728814		73.9	<0.002	0.01	0.44	17.7	1	1.7	241	1.48	<0.05	10.10	0.687	0.38	2.1
S728815		72.6	<0.002	0.01	0.42	18.5	2	1.8	256	1.75	<0.05	10.50	0.745	0.35	2.2
S728816		38.2	<0.002	0.01	0.93	28.1	1	1.4	232	0.86	<0.05	5.44	0.699	0.30	1.1
S728817		58.4	<0.002	0.01	0.62	22.3	1	1.6	250	1.29	<0.05	16.25	0.724	0.34	1.9
S728818		62.3	<0.002	0.02	0.36	19.2	1	1.7	217	1.56	<0.05	8.71	0.736	0.35	1.7
S728819		53.1	<0.002	0.01	0.43	21.0	1	1.6	262	1.36	<0.05	7.60	0.726	0.28	1.7
S728820		42.5	<0.002	0.05	0.93	53.3	4	2.7	32.6	1.11	0.13	15.55	0.774	0.24	2.7
S728821		61.7	<0.002	0.01	0.31	18.9	2	1.8	283	1.90	<0.05	8.79	0.772	0.33	2.2
S728822		59.0	<0.002	0.01	0.50	21.8	2	1.6	278	1.32	<0.05	8.80	0.694	0.31	2.2
S728823		61.9	<0.002	<0.01	0.45	20.4	1	1.7	234	1.50	<0.05	8.97	0.731	0.33	1.7
S728824		68.0	<0.002	0.01	0.56	22.2	1	1.7	226	1.38	<0.05	9.44	0.675	0.37	2.0
S728825		69.3	<0.002	0.01	0.54	20.2	1	1.7	253	1.22	<0.05	9.52	0.648	0.39	2.0
S728826		56.2	<0.002	0.01	0.41	18.9	1	1.7	249	1.65	<0.05	8.32	0.708	0.30	1.9
S728827		53.7	<0.002	0.01	0.45	19.9	2	1.7	263	1.60	<0.05	8.45	0.762	0.30	1.8
S728828		60.0	<0.002	0.01	0.49	21.5	1	1.7	253	1.49	<0.05	8.95	0.700	0.34	1.8
S728829		59.6	<0.002	0.01	0.55	20.5	1	1.7	276	1.11	<0.05	8.12	0.585	0.36	1.6
S728830		67.1	<0.002	0.01	0.50	20.2	1	1.7	217	1.42	0.05	9.81	0.679	0.35	1.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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S728791		1.5	20.4	85	168.0	0.018
S728792		0.8	19.0	90	169.0	<0.001
S728793		1.0	20.1	80	201	0.020
S728794		0.8	22.7	74	229	0.002
S728795		1.5	21.5	75	196.0	0.012
S728796		0.9	21.8	105	186.5	0.001
S728797		0.6	22.6	89	188.5	<0.001
S728798		0.7	24.7	71	183.0	0.001
S728799		0.7	23.2	72	174.0	<0.001
S728800		0.2	5.4	18	46.2	0.007
S728801		0.7	22.0	95	166.0	<0.001
S728802		0.8	19.9	86	164.0	<0.001
S728803		0.6	20.1	84	184.5	0.001
S728804		0.7	21.9	88	196.5	0.001
S728805		0.7	21.1	79	190.5	0.002
S728806		0.7	20.0	72	222	<0.001
S728807		1.0	22.0	86	176.0	0.001
S728808		0.7	24.4	83	198.0	0.001
S728809		0.9	22.8	74	182.5	0.002
S728810		0.7	23.4	78	194.5	<0.001
S728811		0.7	23.5	82	191.0	<0.001
S728812		0.7	24.6	84	208	<0.001
S728813		0.8	22.1	95	180.0	0.002
S728814		0.7	22.3	105	192.0	<0.001
S728815		0.7	25.2	101	215	0.007
S728816		0.9	19.8	108	106.5	<0.001
S728817		0.8	22.1	91	180.5	<0.001
S728818		0.7	18.8	85	176.5	<0.001
S728819		0.7	21.9	79	181.5	<0.001
S728820		1.7	10.5	43	153.0	0.022
S728821		1.6	20.7	85	216	<0.001
S728822		0.7	21.5	88	173.0	<0.001
S728823		0.7	22.7	98	187.5	<0.001
S728824		0.9	21.7	104	174.5	0.001
S728825		0.9	21.1	104	185.5	0.002
S728826		0.8	21.8	83	172.0	0.001
S728827		0.8	22.9	76	206	0.017
S728828		1.0	22.7	88	185.5	0.013
S728829		1.0	20.5	88	162.5	0.002
S728830		0.9	22.5	98	181.5	0.003



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728831		1.53	0.02	7.02	3.6	520	1.61	0.07	1.99	0.10	108.5	21.2	199	1.56	30.5
S728832		1.63	0.04	7.07	4.0	550	1.63	0.08	1.92	0.12	87.4	21.9	172	1.84	33.3
S728833		1.64	0.04	7.31	5.4	550	1.38	0.08	1.97	0.20	84.4	23.3	167	1.50	47.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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Project: QK-2016-TS-002

CERTIFICATE OF ANALYSIS VO16127863

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
S728831		19.65	0.11	5.6	0.057	1.48	52.8	23.3	1.55	734	0.66	2.15	37.6	63.2	1120	13.2
S728832		18.95	0.13	4.9	0.050	1.58	39.5	24.2	1.56	834	0.71	2.06	28.3	66.9	1140	13.5
S728833		18.75	0.12	4.4	0.060	1.60	38.8	21.7	1.73	920	0.59	2.04	21.7	71.3	1120	12.0



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CERTIFICATE OF ANALYSIS VO16127863

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S728831		57.9	<0.002	0.01	0.33	18.5	1	1.7	258	1.67	<0.05	9.24	0.742	0.32	1.9
S728832		64.4	<0.002	0.01	0.34	17.3	1	1.6	256	1.52	<0.05	9.14	0.689	0.35	1.9
S728833		55.8	<0.002	0.01	0.60	20.5	1	1.6	254	1.22	<0.05	8.15	0.668	0.32	1.7



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CERTIFICATE OF ANALYSIS VO16127863

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
		W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001
S728831		0.7	21.1	77	199.5	<0.001
S728832		0.6	18.8	84	177.0	<0.001
S728833		0.8	20.9	84	157.5	0.002

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127863

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS Applies to Method: REE's may not be totally soluble in this method. ME-MS61 LABORATORY ADDRESSES Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada. DRY-21 LOG-22 LOG-23 SCR-41 WEI-21 Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS61



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North Vancouver BC V7H 0A7
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Account: LZIBAC

CERTIFICATE VO16127865

Project: QK-2016-TS-003

This report is for 128 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726860		1.08	0.004	0.04	6.73	10.9	370	0.99	0.09	3.16	0.14	56.2	29.8	217	0.82	64.1
S726861		0.78	<0.001	0.01	6.99	11.0	440	2.17	0.12	2.37	0.10	63.1	27.1	177	1.25	67.8
S726862		0.99	0.014	0.01	6.74	5.7	390	1.08	0.12	3.29	0.10	50.8	26.8	225	0.92	63.4
S726863		0.89	0.007	0.05	6.93	7.8	410	1.06	0.11	3.03	0.08	50.3	30.2	347	1.34	73.5
S726864		0.92	0.001	0.04	6.99	6.2	500	1.27	0.12	2.48	0.11	66.0	25.8	233	1.59	64.6
S726865		0.94	0.003	0.05	7.01	7.6	370	0.98	0.08	3.33	0.19	51.6	31.5	213	0.91	74.4
S726866		0.91	0.002	0.06	7.20	8.2	390	1.12	0.10	2.91	0.16	53.3	32.2	219	0.93	69.2
S726867		0.99	0.005	0.10	7.46	14.3	360	0.93	0.12	2.93	0.20	45.8	43.2	297	1.08	119.5
S726868		1.07	0.003	0.06	6.72	5.8	440	1.25	0.10	2.72	0.15	73.4	26.0	172	1.07	47.5
S726869		1.19	0.014	0.05	6.87	4.7	490	1.39	0.09	2.55	0.19	73.3	24.3	129	1.36	44.5
S726870		0.06	0.400	0.49	7.18	34.0	2850	3.00	5.78	0.61	0.34	89.5	15.5	18	6.70	1480
S726871		1.13	0.004	0.05	7.00	7.9	400	1.15	0.10	2.83	0.15	55.5	34.7	273	1.16	71.5
S726872		1.07	0.003	0.03	6.67	5.5	450	1.26	0.10	2.81	0.16	66.1	23.3	191	1.04	41.5
S726873		0.94	0.006	0.02	6.28	3.7	410	1.16	0.08	3.07	0.13	71.8	21.3	189	0.74	28.8
S726874		1.27	0.004	0.03	7.02	6.2	440	1.26	0.10	2.83	0.12	54.5	31.5	226	1.28	61.8
S726875		1.03	0.004	0.03	6.64	5.0	370	1.04	0.08	2.88	0.10	52.6	25.5	200	0.69	43.8
S726876		1.34	0.004	0.06	6.91	4.7	390	1.02	0.09	3.29	0.16	53.0	35.1	454	1.18	84.9
S726877		1.06	0.009	0.13	7.07	7.7	420	1.17	0.13	2.52	0.22	58.7	34.4	251	1.28	89.5
S726878		1.07	0.006	0.05	6.57	4.5	390	1.05	0.09	3.11	0.11	72.3	23.2	199	0.76	42.6
S726879		0.99	0.004	0.05	7.12	5.9	430	1.25	0.10	2.54	0.09	75.5	27.4	203	1.33	63.0
S726880		0.83	0.003	0.03	7.03	5.1	380	1.09	0.11	2.74	0.10	57.1	28.9	245	1.13	61.1
S726881		1.18	0.005	0.05	7.19	6.9	410	1.14	0.10	2.80	0.12	68.3	29.2	205	1.05	77.1
S726882		1.08	0.002	0.06	6.97	5.8	410	1.20	0.08	2.78	0.12	72.4	25.1	167	1.01	54.9
S726883		1.13	0.004	0.07	7.02	7.4	440	1.27	0.10	2.54	0.11	74.0	32.5	266	1.65	77.7
S726884		1.30	0.015	0.03	7.27	6.7	420	1.21	0.11	3.04	0.09	68.7	25.0	161	0.97	45.0
S726885		0.96	0.017	0.04	6.86	12.8	400	1.07	0.27	3.45	0.12	65.0	24.9	229	0.98	53.7
S726886		1.07	0.002	0.05	7.09	7.6	510	1.20	0.11	2.57	0.07	72.8	20.3	132	1.45	60.6
S726887		0.89	0.006	0.03	6.62	5.1	440	1.14	0.07	3.09	0.09	61.3	19.9	138	0.85	43.4
S726888		1.41	0.004	0.08	7.29	6.8	430	1.22	0.10	2.93	0.15	68.0	28.3	198	1.29	62.2
S726889		0.96	0.003	0.06	7.44	7.2	420	1.17	0.11	2.93	0.15	54.6	32.3	228	1.15	72.4
S726890		0.11	<0.001	0.03	6.20	1.1	390	0.91	0.04	1.79	0.03	19.50	5.5	34	0.75	6.5
S726891		0.96	0.003	0.02	6.91	4.3	440	1.19	0.08	2.83	0.09	86.6	20.3	133	0.88	32.9
S726892		0.96	0.010	0.03	7.09	5.0	390	1.05	0.08	3.04	0.06	58.3	25.6	208	0.86	46.7
S726893		0.99	0.004	0.04	6.99	5.3	360	0.91	0.09	2.79	0.08	56.6	28.1	227	0.86	54.0
S726894		1.09	0.005	0.06	7.23	7.2	390	1.14	0.10	2.88	0.15	55.6	30.9	193	1.06	68.1
S726895		0.91	0.002	0.05	7.17	5.0	480	1.23	0.10	2.57	0.13	72.7	23.3	149	1.31	54.3
S726896		0.82	0.003	0.05	6.88	6.5	510	1.19	0.11	2.48	0.14	80.5	28.0	98	1.32	46.6
S726897		1.08	0.007	0.03	6.85	4.2	450	1.16	0.09	2.83	0.10	77.8	23.1	163	1.05	56.3
S726898		1.36	0.003	0.05	7.11	6.0	400	1.06	0.12	2.55	0.09	62.4	27.2	211	1.10	55.5
S726899		1.09	0.005	0.04	6.92	12.2	450	1.23	0.09	2.84	0.13	91.4	17.3	150	1.21	30.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726860		5.66	17.65	0.13	3.2	0.064	0.99	24.6	14.0	2.51	1020	0.46	1.93	15.5	112.5	980
S726861		5.47	17.90	0.14	3.6	0.059	1.20	22.8	18.2	2.08	942	0.45	1.89	24.1	93.5	650
S726862		5.54	17.05	0.14	3.5	0.058	1.04	24.3	15.0	2.39	985	0.37	1.97	14.6	94.1	910
S726863		5.79	17.60	0.17	3.4	0.056	1.13	24.9	18.5	3.26	859	0.54	1.75	13.3	173.5	740
S726864		4.83	18.00	0.16	4.0	0.058	1.44	31.1	20.5	2.24	850	0.51	2.00	16.0	113.5	860
S726865		5.89	17.35	0.14	2.9	0.060	0.99	21.8	15.9	2.58	1120	0.37	1.91	12.5	102.5	860
S726866		6.14	18.10	0.14	3.3	0.058	1.03	23.4	16.8	2.63	1230	0.55	1.89	13.1	115.5	860
S726867		7.32	19.20	0.15	2.6	0.067	0.92	20.6	18.3	3.43	1310	0.68	1.64	11.0	177.5	880
S726868		5.26	17.85	0.17	3.6	0.054	1.18	32.8	17.0	2.08	963	0.44	1.96	37.6	86.0	950
S726869		4.90	19.30	0.16	4.4	0.062	1.34	33.2	19.8	1.70	913	0.52	2.08	19.7	66.8	1040
S726870		4.13	24.7	0.18	7.0	0.637	2.82	44.5	20.5	0.26	378	3.28	2.39	17.8	9.5	290
S726871		6.16	17.85	0.15	3.1	0.059	1.07	24.0	19.1	2.86	1290	0.58	1.79	14.5	150.5	910
S726872		4.73	16.70	0.15	4.3	0.054	1.22	29.3	15.8	1.87	834	0.40	2.07	13.7	83.1	960
S726873		4.48	16.55	0.16	4.7	0.052	1.10	33.7	13.4	1.85	802	0.36	2.06	16.9	71.8	960
S726874		5.67	17.60	0.15	3.1	0.058	1.17	24.7	19.3	2.48	1000	0.46	1.93	12.7	106.5	790
S726875		5.26	16.90	0.14	3.3	0.062	0.97	22.8	14.2	2.15	919	0.36	1.96	15.6	88.5	830
S726876		5.10	16.60	0.13	3.3	0.050	1.04	25.3	20.5	2.63	973	0.36	1.97	11.8	204	680
S726877		6.24	19.55	0.12	3.1	0.060	1.23	26.7	19.9	2.67	999	0.78	1.78	18.3	135.5	940
S726878		4.82	18.15	0.11	5.0	0.054	1.12	34.9	13.6	1.96	845	0.40	2.03	17.3	93.0	860
S726879		5.64	20.3	0.10	3.8	0.065	1.24	34.1	20.2	2.23	945	0.63	1.99	23.9	98.9	930
S726880		5.59	19.40	0.10	3.7	0.065	1.06	25.6	18.1	2.40	919	0.46	1.88	16.3	111.5	580
S726881		5.78	20.1	0.12	3.7	0.063	1.17	32.7	17.8	2.32	1020	0.54	2.02	19.6	98.8	960
S726882		5.35	20.1	0.14	4.0	0.064	1.17	32.2	16.9	2.06	915	0.49	2.06	22.5	83.4	990
S726883		5.82	20.7	0.13	4.0	0.063	1.30	35.3	22.1	2.68	997	0.60	1.95	24.4	145.0	960
S726884		5.52	21.1	0.12	4.0	0.060	1.17	32.3	16.7	2.08	979	0.68	2.17	37.5	73.4	1060
S726885		5.25	18.85	0.11	3.2	0.054	1.14	32.1	14.9	2.25	958	0.59	2.03	14.5	81.1	980
S726886		4.52	19.55	0.13	5.1	0.047	1.45	35.4	17.5	1.53	820	0.59	2.18	15.5	54.2	1180
S726887		4.54	17.55	0.12	4.2	0.051	1.23	28.0	12.8	1.68	865	0.30	2.17	13.2	48.2	890
S726888		5.83	20.1	0.13	3.8	0.056	1.22	33.0	18.4	2.33	1080	0.70	2.00	19.8	95.7	1210
S726889		6.49	20.9	0.11	3.2	0.066	1.19	24.3	18.5	2.66	1080	0.64	1.95	15.6	114.5	920
S726890		1.43	14.30	0.06	1.1	0.016	1.26	9.2	11.4	0.52	259	0.07	2.76	2.7	18.8	210
S726891		5.02	18.85	0.13	4.2	0.059	1.27	39.1	15.5	1.79	898	0.55	2.22	29.8	59.7	1500
S726892		5.60	18.50	0.10	3.1	0.060	1.06	27.1	14.6	2.34	985	0.44	2.03	14.1	92.9	820
S726893		5.78	18.95	0.11	3.0	0.057	0.99	25.7	15.2	2.53	1000	0.50	1.91	17.6	118.5	830
S726894		6.26	19.90	0.12	3.1	0.065	1.09	25.2	17.0	2.40	1150	0.66	1.94	16.4	101.0	1020
S726895		5.03	19.45	0.12	4.2	0.053	1.39	33.4	18.2	1.76	866	0.47	2.12	19.1	63.6	900
S726896		4.37	18.40	0.12	4.5	0.045	1.54	36.8	16.5	1.37	876	0.41	2.14	12.8	50.6	910
S726897		4.67	19.25	0.12	5.1	0.053	1.29	36.7	15.8	1.66	883	0.40	2.18	21.9	93.8	980
S726898		5.79	18.95	0.10	3.1	0.053	1.09	26.5	16.5	2.32	1040	0.52	1.90	20.5	100.5	990
S726899		4.74	19.50	0.16	5.2	0.053	1.26	49.0	15.3	1.57	787	0.61	2.23	25.6	54.0	1450



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726860		8.6	27.1	<0.002	<0.01	0.78	25.2	1	1.4	307	0.91	<0.05	6.25	0.640	1.1
S726861		10.4	39.7	<0.002	0.01	0.70	21.5	1	1.4	279	1.02	<0.05	6.25	0.579	1.3
S726862		8.1	34.8	<0.002	<0.01	0.70	25.4	1	1.6	323	0.80	<0.05	4.74	0.622	1.1
S726863		8.5	46.6	<0.002	0.01	0.69	23.6	1	1.4	269	0.80	<0.05	5.52	0.578	1.4
S726864		11.5	56.4	<0.002	0.01	0.58	20.5	1	1.4	292	0.84	<0.05	7.43	0.529	1.8
S726865		9.1	30.2	<0.002	<0.01	0.88	26.8	1	1.3	318	0.71	<0.05	4.45	0.630	0.9
S726866		8.0	31.6	<0.002	0.01	0.79	26.0	1	1.4	284	0.76	<0.05	4.66	0.624	1.0
S726867		7.5	29.7	<0.002	0.01	0.95	28.9	1	1.3	247	0.65	0.05	3.94	0.623	0.8
S726868		10.1	39.5	<0.002	<0.01	0.63	22.7	1	1.6	305	0.97	<0.05	8.64	0.572	1.3
S726869		11.3	49.9	<0.002	0.01	0.54	21.3	1	1.6	314	0.98	<0.05	7.35	0.571	1.5
S726870		30.8	135.5	<0.002	0.07	2.00	5.4	3	4.0	159.5	1.35	0.07	15.00	0.122	5.1
S726871		8.9	33.2	<0.002	<0.01	0.74	24.7	1	1.4	266	0.78	<0.05	5.21	0.593	1.1
S726872		10.5	40.6	<0.002	<0.01	0.73	20.7	1	1.4	327	0.78	<0.05	6.67	0.538	1.4
S726873		9.4	35.1	<0.002	<0.01	0.55	22.0	1	1.4	345	0.95	<0.05	7.00	0.610	1.5
S726874		8.9	41.5	<0.002	0.01	0.68	23.8	1	1.3	300	0.75	<0.05	5.78	0.531	1.2
S726875		7.9	30.2	<0.002	0.01	0.66	23.8	1	1.4	301	0.81	<0.05	4.61	0.623	1.0
S726876		8.5	34.3	<0.002	0.01	0.58	24.4	1	1.2	300	0.67	<0.05	5.73	0.469	1.1
S726877		10.2	35.7	<0.002	0.01	0.96	23.7	1	1.4	256	0.87	0.09	5.49	0.570	1.0
S726878		9.1	33.1	<0.002	<0.01	0.64	23.0	1	1.4	328	0.93	<0.05	6.21	0.626	1.2
S726879		10.3	46.1	<0.002	0.01	0.63	22.9	1	1.6	283	1.16	0.05	7.49	0.619	1.4
S726880		8.6	36.0	<0.002	0.02	0.70	24.7	1	1.4	287	0.85	<0.05	5.24	0.593	1.0
S726881		9.4	37.7	<0.002	0.01	0.72	25.4	1	1.5	299	1.01	<0.05	6.05	0.640	1.2
S726882		9.6	41.3	<0.002	<0.01	0.71	25.1	1	1.5	307	1.10	<0.05	6.25	0.656	1.3
S726883		10.3	46.1	<0.002	0.01	0.66	22.2	1	1.5	266	1.05	<0.05	7.42	0.610	1.3
S726884		9.4	37.8	<0.002	<0.01	0.61	23.9	1	1.7	350	3.42	<0.05	7.31	0.673	4.3
S726885		9.2	34.4	<0.002	<0.01	0.63	24.4	1	1.7	373	0.93	<0.05	5.37	0.581	1.3
S726886		12.6	50.7	<0.002	0.02	0.45	17.6	1	1.4	359	0.91	<0.05	7.76	0.504	1.4
S726887		9.0	33.5	<0.002	<0.01	0.48	20.4	1	1.3	385	0.80	<0.05	5.18	0.538	1.0
S726888		9.4	43.9	<0.002	<0.01	0.65	22.8	1	1.4	315	1.01	<0.05	6.13	0.635	1.4
S726889		8.3	26.7	<0.002	0.01	0.76	23.8	1	1.5	299	0.94	<0.05	4.68	0.660	1.0
S726890		6.6	48.5	<0.002	<0.01	0.09	6.0	<1	0.4	384	0.21	<0.05	1.09	0.153	0.3
S726891		9.9	40.7	<0.002	<0.01	0.50	19.8	1	1.6	341	1.58	<0.05	6.64	0.716	1.6
S726892		7.7	30.9	<0.002	0.01	0.67	23.5	1	1.4	333	0.81	<0.05	4.71	0.643	0.9
S726893		7.2	26.0	<0.002	0.01	0.66	24.0	1	1.4	293	0.90	<0.05	4.39	0.645	1.0
S726894		8.1	26.2	<0.002	<0.01	0.73	23.2	1	1.4	300	0.93	<0.05	4.94	0.661	1.0
S726895		10.3	44.0	<0.002	0.01	0.53	18.9	1	1.5	340	0.93	<0.05	7.13	0.555	1.3
S726896		11.3	52.5	<0.002	<0.01	0.69	18.1	1	1.3	332	0.86	<0.05	7.87	0.460	1.3
S726897		10.8	43.5	<0.002	0.01	0.56	20.3	1	1.5	354	1.04	<0.05	7.17	0.592	1.5
S726898		9.0	38.2	<0.002	0.02	0.62	21.5	1	1.4	292	1.25	<0.05	6.04	0.604	1.6
S726899		10.8	46.4	<0.002	0.01	1.09	19.4	1	1.6	370	1.22	<0.05	8.87	0.664	1.9



ALS Canada Ltd.
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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S726860		169	0.9	20.3	86	101.5
S726861		149	0.8	18.0	92	118.0
S726862		163	1.2	21.0	79	115.0
S726863		162	0.9	19.2	87	114.5
S726864		136	0.8	19.4	85	137.5
S726865		177	1.0	20.3	82	94.1
S726866		177	0.9	21.0	95	113.5
S726867		212	0.9	20.8	113	96.1
S726868		150	0.9	21.8	81	120.5
S726869		135	0.8	21.0	84	147.5
S726870		9	2.9	15.4	138	247
S726871		172	1.0	19.5	96	107.0
S726872		135	0.9	19.7	75	144.5
S726873		140	1.0	20.8	67	162.5
S726874		161	1.3	18.8	91	103.5
S726875		160	0.9	19.0	72	111.0
S726876		141	1.0	19.7	76	111.5
S726877		172	0.9	18.5	111	112.0
S726878		149	0.8	20.0	68	182.0
S726879		163	0.8	19.6	90	138.5
S726880		163	0.9	18.5	85	130.5
S726881		172	0.8	20.2	91	132.0
S726882		165	0.8	20.8	81	146.5
S726883		164	0.7	18.9	93	143.5
S726884		160	0.9	20.9	86	139.0
S726885		151	1.6	20.8	81	115.0
S726886		120	0.8	17.4	67	180.5
S726887		133	0.9	18.3	62	149.5
S726888		161	0.9	21.5	99	143.5
S726889		184	1.0	19.0	110	110.5
S726890		38	0.2	5.6	20	40.7
S726891		144	0.7	20.4	78	164.0
S726892		163	1.0	19.8	81	112.5
S726893		165	0.8	19.4	86	110.5
S726894		179	1.0	20.0	99	111.5
S726895		138	0.8	18.8	81	152.5
S726896		126	4.4	18.8	70	161.0
S726897		132	0.8	20.9	67	189.0
S726898		166	0.8	17.8	87	113.0
S726899		131	0.7	22.5	82	193.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726900		0.65	0.001	0.02	7.01	7.3	500	1.38	0.07	2.31	0.12	84.6	16.2	81	1.36	29.5
S726901		0.83	0.005	0.03	7.11	7.0	490	1.55	0.08	2.30	0.14	101.5	22.7	123	1.73	44.4
S726902		0.83	0.008	0.04	7.08	11.1	480	1.41	0.08	2.43	0.11	84.5	22.3	134	1.34	52.7
S726903		1.01	0.004	0.02	7.16	14.3	490	1.42	0.09	2.18	0.08	86.2	24.2	146	1.58	44.7
S726904		0.86	0.001	0.02	6.76	16.0	480	1.46	0.08	2.18	0.09	102.5	21.9	96	1.64	22.9
S726905		0.94	0.086	0.04	6.52	12.8	420	1.02	0.07	3.18	0.11	74.8	27.3	344	0.90	43.4
S726907		0.82	0.006	0.04	6.78	7.6	460	1.28	0.07	2.81	0.09	85.0	19.2	179	0.95	38.5
S726908		0.94	0.004	0.07	7.23	10.4	530	1.49	0.11	2.35	0.13	84.1	25.2	169	1.66	66.8
S726909		0.93	0.002	0.09	7.03	9.2	530	1.61	0.12	2.35	0.15	86.9	23.0	153	1.81	53.8
S727914		1.09	0.001	0.03	7.07	3.9	570	1.44	0.08	1.78	0.07	75.8	14.8	81	2.00	25.5
S727915		1.06	0.002	0.05	7.15	5.6	530	1.39	0.09	1.92	0.11	81.5	22.5	134	1.96	34.4
S727916		0.84	0.002	0.04	6.80	4.0	480	1.27	0.07	1.84	0.07	78.9	16.0	113	1.49	28.6
S727917		1.04	0.003	0.07	7.05	3.9	550	1.43	0.08	1.90	0.17	80.8	21.0	137	2.04	42.6
S727918		1.12	0.003	0.08	6.85	7.0	480	1.30	0.10	1.96	0.25	92.0	27.8	148	1.92	115.5
S727919		1.20	0.001	0.10	7.02	6.8	540	1.41	0.10	2.01	0.20	83.9	25.8	181	2.50	50.0
S727920		0.05	0.026	0.17	8.06	12.5	190	0.68	0.31	0.19	0.02	43.6	28.7	543	4.17	369
S727921		0.70	0.015	0.03	6.88	4.5	470	1.19	0.08	2.00	0.07	68.1	19.4	186	1.97	23.4
S727922		0.93	0.005	0.03	6.71	5.6	370	0.85	0.06	3.35	0.11	69.3	30.5	377	0.96	58.3
S727923		1.64	0.005	0.04	6.92	15.1	420	1.01	0.07	2.34	0.15	62.5	30.5	309	1.31	64.6
S727924		1.11	0.004	0.07	6.90	3.4	490	1.24	0.08	2.19	0.15	85.0	21.1	191	1.87	39.2
S727925		1.40	0.003	0.09	7.35	7.9	550	1.39	0.11	2.14	0.21	88.0	27.6	218	2.80	55.0
S727926		1.14	0.002	0.10	7.40	8.9	590	1.49	0.13	1.81	0.20	83.7	29.0	218	3.09	62.0
S727927		1.17	0.004	0.07	6.88	5.4	530	1.33	0.09	2.17	0.22	82.9	25.1	210	2.25	48.5
S727928		1.29	0.003	0.06	6.85	6.1	510	1.47	0.08	2.45	0.15	71.0	28.7	280	1.64	53.3
S727929		0.74	0.002	0.05	6.65	4.0	510	1.36	0.07	2.36	0.12	89.6	16.8	103	1.13	23.9
S727930		1.28	0.001	0.07	7.16	4.6	600	1.63	0.09	1.78	0.17	85.5	20.2	89	2.46	40.9
S727931		1.30	0.002	0.06	7.09	3.5	590	1.61	0.08	1.80	0.14	82.4	20.3	105	2.26	36.7
S727932		1.41	0.001	0.05	7.00	4.0	560	1.60	0.08	1.92	0.14	78.2	18.5	92	1.91	32.9
S727933		1.11	0.001	0.05	7.04	3.3	560	1.63	0.08	1.94	0.12	87.2	17.5	83	1.87	29.0
S727934		1.08	0.004	0.05	6.94	3.4	550	1.48	0.07	2.09	0.14	80.4	17.6	94	1.68	27.5
S727935		1.11	0.003	0.05	7.38	4.6	540	1.48	0.09	2.09	0.13	67.5	30.6	239	2.09	53.2
S727936		1.01	0.002	0.08	7.03	3.7	560	1.76	0.08	2.24	0.15	80.5	19.5	109	2.16	35.8
S727937		1.43	0.001	0.05	6.64	3.1	530	1.32	0.07	2.29	0.12	77.5	19.6	169	1.38	44.4
S727938		1.03	0.003	0.06	6.86	4.1	600	1.63	0.09	2.00	0.17	81.9	22.1	119	1.80	35.2
S727939		0.89	0.005	0.05	6.89	6.5	500	1.33	0.09	1.98	0.13	66.9	24.4	148	1.52	50.4
S727940		0.14	0.001	0.03	6.44	0.7	400	1.10	0.05	1.92	0.03	19.70	5.9	41	0.78	7.2
S727941		1.00	0.003	0.03	6.94	3.9	510	1.48	0.07	2.23	0.11	96.7	20.2	133	1.59	34.6
S727942		1.06	0.003	0.06	7.01	4.5	600	1.49	0.12	1.73	0.16	83.5	21.7	169	2.65	48.9
S727943		1.05	0.002	0.08	7.03	4.6	580	1.51	0.09	1.90	0.20	85.2	23.8	137	2.20	42.4
S727944		0.78	0.003	0.03	6.86	3.6	530	1.56	0.08	2.14	0.09	91.8	18.2	119	1.53	28.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726900		4.33	19.40	0.11	4.7	0.050	1.42	35.1	17.8	1.17	683	0.52	2.43	22.3	32.1	850
S726901		5.13	20.9	0.13	5.2	0.059	1.40	42.2	25.1	1.63	889	0.65	2.22	31.2	54.1	1140
S726902		4.85	19.95	0.15	5.1	0.058	1.42	43.5	19.5	1.59	797	0.50	2.29	30.0	56.9	1170
S726903		5.54	20.1	0.12	4.9	0.065	1.43	40.1	22.9	1.72	911	0.71	2.14	28.0	56.1	1090
S726904		4.86	19.70	0.12	4.8	0.058	1.37	36.7	22.0	1.41	850	0.77	2.23	30.9	38.3	1000
S726905		4.93	16.50	0.13	3.8	0.047	1.15	35.3	13.6	2.42	969	0.29	2.02	13.1	116.5	1010
S726907		4.68	18.75	0.15	5.2	0.058	1.34	41.3	16.6	1.75	797	0.50	2.27	35.2	69.2	1430
S726908		5.19	20.6	0.12	4.3	0.055	1.58	38.6	22.3	1.87	940	0.74	2.13	36.4	82.8	1230
S726909		5.13	20.6	0.14	4.4	0.056	1.61	42.5	23.2	1.80	941	0.85	2.13	25.4	75.7	1240
S727914		4.12	20.2	0.12	4.2	0.049	1.91	38.6	25.4	1.21	598	0.84	2.20	14.6	36.1	810
S727915		4.64	21.0	0.13	5.0	0.053	1.73	39.1	24.8	1.47	704	0.94	2.15	17.2	51.9	840
S727916		4.41	19.45	0.12	5.0	0.058	1.64	38.2	20.8	1.29	667	0.70	2.16	15.4	39.6	820
S727917		4.74	20.4	0.12	4.6	0.056	1.85	39.1	24.9	1.60	656	0.81	2.09	17.2	64.4	920
S727918		5.40	18.10	0.10	5.3	0.061	1.52	41.8	17.0	1.89	1110	0.58	1.95	18.5	66.0	950
S727919		5.30	19.30	0.11	4.8	0.066	1.69	42.5	21.5	1.85	852	1.34	1.96	17.6	91.2	980
S727920		14.30	21.0	0.08	4.5	0.105	0.42	20.6	17.4	0.22	471	2.47	0.09	14.5	229	420
S727921		4.92	18.60	0.11	5.1	0.069	1.45	31.5	18.1	1.68	681	0.86	2.09	19.1	65.6	860
S727922		4.83	17.10	0.09	4.6	0.074	1.10	32.3	12.1	2.15	841	0.43	2.07	14.4	180.5	690
S727923		5.23	17.90	0.09	4.2	0.069	1.31	29.8	16.7	2.39	827	0.52	1.84	15.7	125.5	760
S727924		4.75	19.20	0.10	5.0	0.068	1.53	41.5	17.5	1.76	591	0.65	2.10	23.1	74.9	860
S727925		6.04	19.90	0.10	4.8	0.073	1.74	45.7	22.0	2.09	927	1.13	1.93	18.8	95.4	1010
S727926		6.06	21.3	0.11	4.4	0.071	1.88	41.9	25.1	2.15	980	1.15	1.76	17.5	104.5	1000
S727927		5.07	18.45	0.10	4.7	0.064	1.74	39.2	19.5	2.02	850	1.01	1.98	16.8	107.5	970
S727928		5.04	18.60	0.09	4.5	0.059	1.52	33.8	21.5	2.42	773	0.74	2.00	14.3	159.5	860
S727929		4.05	18.75	0.10	5.5	0.060	1.57	43.1	17.2	1.14	624	0.56	2.36	17.9	34.6	1020
S727930		4.62	20.3	0.09	4.6	0.057	1.91	41.4	27.8	1.30	750	1.11	2.08	15.5	45.1	900
S727931		4.50	21.1	0.11	4.5	0.060	1.91	39.1	28.2	1.41	644	0.86	2.13	16.1	47.4	900
S727932		4.35	21.0	0.09	5.2	0.058	1.78	37.7	25.1	1.25	671	0.68	2.22	20.0	38.0	890
S727933		4.18	20.2	0.09	4.8	0.060	1.83	42.8	24.7	1.19	666	0.86	2.30	16.1	35.4	840
S727934		4.23	19.90	0.09	4.8	0.056	1.76	38.9	22.7	1.23	668	0.70	2.29	16.7	37.2	970
S727935		5.13	20.5	0.08	4.0	0.059	1.78	30.9	30.0	2.19	999	0.69	1.92	14.2	100.5	780
S727936		4.40	19.85	0.09	4.8	0.057	1.71	40.8	25.3	1.43	661	0.85	2.20	16.3	51.9	1060
S727937		4.20	18.45	0.09	5.3	0.056	1.59	37.5	18.6	1.56	674	0.54	2.25	15.8	72.5	960
S727938		4.15	18.80	0.09	5.1	0.051	1.85	37.7	20.7	1.31	813	0.70	2.22	14.1	59.3	960
S727939		4.87	18.75	0.09	4.2	0.061	1.53	30.3	19.8	1.70	855	0.52	2.01	16.1	60.5	910
S727940		1.54	15.35	<0.05	1.3	0.023	1.29	9.0	7.9	0.53	284	0.06	2.83	5.0	19.2	240
S727941		4.69	19.85	0.10	5.5	0.067	1.65	43.5	21.9	1.35	791	0.73	2.29	20.2	51.1	1100
S727942		4.37	19.25	0.09	4.7	0.053	1.92	38.9	24.9	1.70	581	0.55	1.96	13.9	85.5	740
S727943		4.81	20.1	0.08	4.8	0.062	1.88	39.9	25.7	1.50	884	1.13	2.10	17.9	68.8	1030
S727944		4.29	19.30	0.09	6.2	0.061	1.67	44.0	20.5	1.26	680	0.67	2.27	21.4	46.2	1060



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726900		12.5	51.1	<0.002	0.02	0.45	15.5	1	1.4	380	1.13	<0.05	8.46	0.535	1.5
S726901		12.6	56.7	<0.002	0.02	0.54	18.0	1	1.6	332	1.42	<0.05	9.84	0.590	1.9
S726902		11.2	51.6	<0.002	0.01	0.90	20.2	1	1.5	321	1.36	<0.05	7.82	0.590	2.0
S726903		12.2	51.5	<0.002	0.01	0.70	19.3	1	1.5	287	1.34	<0.05	8.04	0.619	1.7
S726904		14.1	54.0	<0.002	0.02	0.43	16.0	1	1.7	319	1.84	<0.05	8.79	0.615	2.1
S726905		8.8	37.7	<0.002	<0.01	0.65	20.9	1	1.1	354	0.75	<0.05	6.24	0.463	1.3
S726907		10.5	46.0	0.002	<0.01	0.63	18.8	1	1.6	344	1.42	<0.05	7.52	0.639	1.7
S726908		12.2	51.1	<0.002	0.01	0.81	18.3	1	1.6	303	1.29	<0.05	8.98	0.566	1.8
S726909		13.8	62.4	<0.002	<0.01	0.69	17.9	1	1.7	297	1.31	<0.05	9.16	0.597	1.8
S727914		14.2	75.3	<0.002	0.01	0.29	13.8	1	1.4	285	0.96	<0.05	8.52	0.504	2.1
S727915		14.1	71.9	<0.002	0.01	0.42	17.8	1	1.5	265	1.10	<0.05	8.95	0.607	2.1
S727916		11.8	60.9	<0.002	0.01	0.42	16.6	1	1.4	259	0.98	<0.05	7.54	0.574	1.7
S727917		13.5	68.9	<0.002	<0.01	0.39	17.0	1	1.6	246	1.12	<0.05	8.95	0.605	1.9
S727918		12.3	59.6	<0.002	0.01	0.63	19.7	1	1.6	247	1.34	<0.05	11.70	0.660	2.3
S727919		14.7	78.4	<0.002	<0.01	0.53	18.0	1	1.7	235	1.08	0.07	10.15	0.605	2.3
S727920		20.7	43.9	<0.002	0.05	1.01	48.6	3	2.8	32.9	1.09	0.13	15.95	0.740	2.7
S727921		12.5	62.6	<0.002	0.02	0.41	17.2	1	1.6	257	1.21	<0.05	7.18	0.648	1.8
S727922		8.8	36.1	<0.002	0.01	0.59	30.2	1	1.3	266	0.87	<0.05	6.11	0.590	1.4
S727923		9.1	38.0	<0.002	0.01	0.54	28.2	1	1.5	215	0.98	<0.05	5.96	0.626	1.4
S727924		12.9	66.0	<0.002	<0.01	0.46	18.7	2	1.7	261	1.28	<0.05	8.31	0.671	2.2
S727925		14.3	79.8	<0.002	0.01	0.61	19.8	1	1.8	228	1.15	0.05	10.40	0.677	2.5
S727926		14.7	85.8	<0.002	0.01	0.59	19.3	1	1.8	208	1.04	0.06	10.70	0.569	2.2
S727927		13.6	68.0	<0.002	<0.01	0.51	17.4	1	1.6	243	1.02	<0.05	9.14	0.596	1.7
S727928		11.2	55.4	<0.002	0.01	0.68	18.7	1	1.4	272	0.87	<0.05	7.02	0.582	1.6
S727929		12.0	53.1	<0.002	<0.01	0.51	18.0	2	1.5	322	1.07	<0.05	8.62	0.635	1.8
S727930		16.3	88.7	0.002	0.01	0.43	15.9	1	1.5	264	0.97	0.05	11.90	0.543	2.4
S727931		14.5	79.3	0.002	0.01	0.43	17.3	1	1.5	259	0.99	<0.05	9.60	0.546	2.2
S727932		13.4	73.0	0.002	<0.01	0.39	16.6	1	1.5	289	1.10	<0.05	8.66	0.552	2.1
S727933		15.0	75.7	<0.002	<0.01	0.35	16.3	1	1.5	298	0.99	<0.05	9.12	0.567	2.3
S727934		13.6	68.5	<0.002	0.01	0.42	16.9	1	1.5	301	1.02	<0.05	9.19	0.562	2.1
S727935		12.5	64.5	<0.002	0.01	0.52	22.9	1	1.4	242	0.86	<0.05	7.82	0.533	1.7
S727936		14.2	74.9	<0.002	0.01	0.39	17.2	1	1.5	315	0.93	<0.05	9.21	0.546	2.3
S727937		11.8	55.9	<0.002	0.01	0.37	17.3	1	1.4	311	0.95	<0.05	7.69	0.548	1.7
S727938		14.4	67.4	0.002	<0.01	0.38	15.5	1	1.4	307	0.86	<0.05	8.76	0.487	1.6
S727939		12.0	57.3	<0.002	0.01	0.61	19.3	1	1.6	257	0.93	<0.05	6.88	0.565	1.5
S727940		6.7	50.7	<0.002	<0.01	0.12	6.8	1	0.5	400	0.23	<0.05	1.22	0.174	0.4
S727941		13.1	64.4	<0.002	<0.01	0.38	19.0	1	1.6	293	1.22	<0.05	8.26	0.705	2.1
S727942		14.9	81.7	<0.002	0.01	0.47	16.9	1	1.5	265	0.92	<0.05	9.83	0.479	1.9
S727943		15.1	78.9	<0.002	<0.01	0.43	17.6	2	1.6	257	1.10	<0.05	9.63	0.588	2.0
S727944		13.8	61.5	0.002	0.01	0.37	17.3	2	1.6	299	1.23	<0.05	8.96	0.641	2.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S726900		114	0.6	15.3	75	171.5
S726901		133	0.8	18.3	98	191.0
S726902		139	1.9	21.7	91	181.0
S726903		147	1.2	19.3	100	184.5
S726904		123	0.7	16.4	94	177.5
S726905		135	1.2	19.5	78	140.0
S726907		133	0.9	20.2	76	186.0
S726908		138	1.0	19.1	104	152.0
S726909		138	0.8	20.1	104	161.0
S727914		108	0.5	14.8	77	157.0
S727915		131	0.7	18.1	85	178.5
S727916		123	0.5	16.6	74	186.0
S727917		134	0.6	18.9	99	171.0
S727918		153	0.8	22.0	89	183.0
S727919		140	0.7	21.5	109	172.0
S727920		229	1.7	11.3	44	149.5
S727921		136	0.7	17.4	77	178.5
S727922		177	0.6	24.9	68	158.0
S727923		172	1.0	23.5	89	146.5
S727924		142	0.7	21.7	94	172.5
S727925		157	0.8	23.3	118	171.5
S727926		152	0.8	21.2	124	159.0
S727927		137	0.7	20.6	98	165.5
S727928		132	0.7	19.7	95	166.0
S727929		121	0.6	22.0	64	203
S727930		121	0.6	19.1	95	168.0
S727931		125	0.6	19.0	92	165.0
S727932		119	0.6	18.1	81	188.5
S727933		116	0.5	19.2	78	177.5
S727934		118	0.6	19.3	78	171.5
S727935		148	0.7	19.1	98	144.5
S727936		117	0.5	19.7	90	178.0
S727937		116	0.5	18.7	70	194.5
S727938		109	0.6	18.8	75	190.0
S727939		133	0.8	18.9	82	150.5
S727940		42	0.2	7.2	21	47.3
S727941		133	0.6	22.2	78	206
S727942		117	0.7	19.3	88	171.0
S727943		127	0.6	20.1	95	173.0
S727944		124	0.6	21.4	72	214



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727945		1.10	<0.001	0.11	7.15	5.8	570	1.62	0.09	1.85	0.24	90.5	24.3	145	2.39	53.5
S727946		0.95	0.003	0.03	6.51	4.4	440	1.18	0.06	2.76	0.14	76.0	22.8	140	0.95	42.6
S727947		0.89	0.004	0.04	6.52	3.0	500	1.35	0.07	2.24	0.10	86.5	15.3	110	1.25	22.0
S727948		1.11	0.003	0.08	7.51	10.9	580	1.61	0.14	1.59	0.19	77.0	28.7	277	3.02	63.6
S727949		1.06	0.001	0.07	6.56	2.2	520	1.47	0.07	2.04	0.12	76.1	15.5	117	1.97	22.9
S727950		1.01	0.002	0.03	6.91	2.8	620	1.35	0.11	1.74	0.10	68.4	18.7	129	2.01	44.9
S728411		1.39	0.003	0.03	6.80	3.1	490	1.26	0.06	2.90	0.13	76.3	22.6	158	1.38	51.3
S728412		1.13	0.004	0.04	6.67	3.1	490	1.34	0.07	2.89	0.14	81.4	24.2	154	1.44	52.9
S728413		1.29	0.009	0.03	6.81	3.3	460	1.21	0.07	3.92	0.16	83.6	30.8	206	1.46	55.0
S728414		1.70	0.002	0.07	7.02	4.6	610	1.65	0.10	2.06	0.12	78.3	19.2	136	1.88	41.3
S728415		1.45	0.003	0.05	7.05	5.2	560	1.67	0.11	2.25	0.17	81.2	24.6	137	2.09	46.2
S728416		1.50	0.003	0.05	7.07	4.0	550	1.58	0.09	2.32	0.15	80.3	21.3	171	1.67	48.9
S728417		1.47	0.001	0.05	7.05	4.0	570	1.61	0.09	2.21	0.14	90.0	19.8	165	1.62	30.3
S728418		1.32	0.003	0.03	6.94	3.6	530	1.50	0.08	2.33	0.16	76.3	22.5	160	1.45	32.9
S728419		1.17	0.002	0.04	6.77	3.4	520	1.55	0.07	2.28	0.18	85.0	16.6	91	1.13	29.8
S728420		1.58	0.002	0.07	7.49	5.6	540	1.79	0.08	1.95	0.18	90.8	26.8	134	1.89	66.1
S728421		1.57	0.002	0.04	7.22	5.5	520	1.70	0.07	2.38	0.20	93.1	26.0	139	1.43	71.2
S728422		1.48	0.001	0.04	6.97	3.5	550	1.62	0.08	2.17	0.14	97.8	18.6	113	1.41	35.7
S728423		1.49	0.003	0.06	7.23	4.3	540	1.77	0.10	2.59	0.18	98.2	20.3	98	1.41	35.2
S728424		1.36	0.001	0.04	6.85	3.3	540	1.58	0.07	2.09	0.11	102.0	18.7	167	1.36	29.8
S728425		1.25	0.015	0.03	6.84	3.7	540	1.61	0.07	2.13	0.12	90.9	21.5	216	1.37	34.5
S728426		1.18	0.001	0.05	7.41	5.2	560	1.60	0.09	2.42	0.21	85.2	22.0	115	1.90	54.5
S728427		1.53	0.002	0.07	7.28	6.1	590	1.77	0.09	2.12	0.18	95.4	23.4	144	2.11	49.5
S728428		1.35	0.002	0.06	7.33	5.4	660	1.50	0.12	1.66	0.12	72.7	18.9	86	1.98	40.3
S728429		1.18	0.002	0.03	6.87	6.9	490	1.33	0.07	2.21	0.10	77.8	26.1	201	1.17	38.2
S728430		1.59	0.002	0.05	6.94	3.6	550	1.56	0.08	2.05	0.13	92.5	17.7	132	1.72	34.7
S728431		0.05	0.025	0.15	8.07	13.7	190	0.74	0.31	0.20	0.02	38.4	28.8	549	3.92	372
S728432		1.16	0.003	0.03	6.69	3.3	530	1.57	0.08	1.90	0.11	86.8	15.0	86	1.57	22.2
S728433		1.11	0.005	0.03	7.03	3.9	580	1.63	0.08	1.95	0.10	97.5	24.6	181	1.80	32.7
S728434		1.55	0.009	0.09	7.37	5.1	600	1.88	0.09	1.86	0.17	100.0	25.3	169	2.34	47.6
S728435		1.53	0.003	0.06	6.88	4.0	550	1.48	0.07	2.29	0.15	89.9	21.6	191	1.45	33.7
S728436		1.21	0.001	0.06	6.83	4.3	550	1.61	0.08	2.09	0.14	111.0	20.9	133	1.66	29.7
S728437		1.34	0.008	0.03	7.13	4.7	480	1.48	0.08	2.67	0.14	87.1	24.2	250	1.19	39.4
S728438		1.52	0.002	0.07	7.27	5.8	580	1.52	0.09	1.95	0.18	86.8	24.8	195	1.94	44.0
S728439		1.28	0.003	0.04	7.07	4.1	500	1.30	0.08	2.60	0.15	69.1	25.5	205	1.38	53.0
S728440		1.25	0.004	0.04	6.55	3.0	460	1.19	0.06	2.79	0.16	78.6	20.0	180	0.94	30.1
S728441		1.23	0.004	0.03	6.30	2.9	400	1.12	0.06	2.97	0.15	76.9	18.0	178	0.76	27.1
S728834		0.92	0.002	0.05	7.08	5.3	550	1.49	0.10	1.77	0.11	75.5	20.4	159	2.29	38.5
S728835		1.73	0.009	0.06	7.29	4.4	550	1.27	0.10	1.94	0.21	64.0	25.2	155	2.74	61.4
S728836		1.21	0.003	0.08	7.08	7.0	560	1.41	0.10	1.95	0.20	70.3	23.8	144	2.20	49.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727945		5.38	21.4	0.09	4.7	0.068	1.90	45.1	25.3	1.60	824	1.44	1.97	18.7	71.9	990
S727946		4.56	18.60	0.08	5.1	0.065	1.35	33.8	14.4	1.53	815	0.47	2.17	20.0	50.7	1020
S727947		4.11	18.85	0.09	5.6	0.059	1.57	43.6	17.7	1.19	656	0.58	2.26	18.5	36.8	1070
S727948		5.89	20.4	0.08	4.5	0.069	1.86	40.0	28.8	2.36	1140	1.01	1.63	15.7	117.5	950
S727949		3.83	19.10	0.08	5.4	0.059	1.57	35.5	25.6	1.32	483	0.65	2.15	19.7	35.4	1090
S727950		4.60	18.05	0.07	4.5	0.057	1.77	32.8	20.3	1.56	868	0.36	2.10	14.2	45.5	870
S728411		5.41	17.50	0.08	4.5	0.061	1.40	35.4	16.8	1.72	965	0.44	2.13	27.4	49.5	1130
S728412		5.38	18.15	0.08	4.6	0.066	1.38	37.7	17.5	1.70	971	0.48	2.09	23.7	51.1	1130
S728413		5.78	17.35	0.10	4.0	0.064	1.26	39.4	18.0	2.51	1090	0.38	1.92	18.9	73.3	1180
S728414		4.55	18.65	0.15	5.0	0.055	1.79	41.2	23.5	1.39	758	0.79	2.13	21.7	51.0	1090
S728415		5.27	19.20	0.15	4.5	0.058	1.67	39.2	26.4	1.71	1000	0.78	2.06	20.0	56.2	1130
S728416		4.99	18.00	0.15	5.2	0.055	1.57	40.2	21.6	1.62	731	0.68	2.17	25.8	61.3	1110
S728417		4.76	18.75	0.15	5.6	0.058	1.65	47.0	22.7	1.49	742	0.68	2.26	28.2	58.2	1300
S728418		5.12	17.65	0.15	4.8	0.056	1.56	36.5	20.4	1.68	940	0.61	2.13	25.4	56.1	1150
S728419		4.41	18.35	0.16	5.7	0.056	1.48	41.5	16.8	1.20	744	0.58	2.37	30.9	31.4	1350
S728420		6.02	20.4	0.18	5.0	0.067	1.45	45.8	22.5	1.74	973	1.07	2.15	40.2	48.1	1380
S728421		5.94	20.5	0.15	5.1	0.077	1.41	42.9	20.3	1.61	1150	0.97	2.24	38.2	45.7	1490
S728422		4.75	18.85	0.15	5.3	0.061	1.60	49.6	19.1	1.39	835	0.66	2.34	31.2	39.2	1380
S728423		5.06	19.65	0.16	5.6	0.064	1.58	47.0	18.6	1.44	901	0.70	2.31	32.6	35.2	1440
S728424		4.65	18.30	0.16	5.3	0.055	1.60	55.2	20.1	1.44	722	0.61	2.34	30.7	58.5	1240
S728425		4.97	17.50	0.17	5.5	0.057	1.54	48.4	19.3	1.54	848	0.71	2.26	31.5	65.9	1170
S728426		5.23	19.65	0.13	5.2	0.064	1.60	40.7	20.3	1.43	979	0.67	2.28	22.8	42.0	1190
S728427		5.19	19.60	0.16	5.5	0.062	1.74	48.4	22.5	1.54	981	0.90	2.23	29.3	57.7	1400
S728428		3.93	18.30	0.12	4.8	0.047	1.95	36.9	21.2	1.14	930	0.50	2.21	14.4	40.9	790
S728429		5.05	17.40	0.13	4.8	0.063	1.38	36.2	17.6	1.82	834	0.57	2.27	26.1	71.3	1120
S728430		4.58	18.90	0.16	5.6	0.059	1.68	48.7	21.4	1.43	641	0.80	2.21	32.8	51.7	1330
S728431		14.35	21.2	0.11	4.2	0.094	0.42	18.7	20.7	0.23	490	2.35	0.10	14.4	231	440
S728432		4.13	18.05	0.14	5.3	0.052	1.62	44.2	19.2	1.15	681	0.72	2.30	35.0	32.7	1270
S728433		5.00	19.55	0.15	5.0	0.058	1.72	47.4	23.5	1.67	919	0.69	2.23	30.0	67.9	1120
S728434		5.47	20.7	0.17	5.3	0.063	1.80	52.5	25.7	1.71	910	1.05	2.09	31.4	73.3	1230
S728435		4.83	18.35	0.14	5.3	0.056	1.61	45.1	19.6	1.61	846	0.72	2.23	30.4	69.1	1330
S728436		4.64	19.15	0.17	5.6	0.060	1.64	58.9	20.8	1.40	826	0.77	2.27	35.0	54.8	1330
S728437		5.23	18.70	0.15	5.1	0.059	1.33	43.3	18.3	1.96	848	0.52	2.25	41.0	82.7	1200
S728438		5.51	19.50	0.15	5.0	0.062	1.71	46.3	24.0	1.83	900	0.74	2.07	32.0	79.3	1310
S728439		5.06	17.95	0.13	4.2	0.062	1.43	34.3	18.9	1.95	940	0.57	2.13	23.0	69.6	1000
S728440		4.56	17.10	0.12	4.6	0.059	1.27	39.0	14.4	1.67	773	0.46	2.21	27.8	57.1	1110
S728441		4.51	16.45	0.13	4.7	0.065	1.10	38.0	12.1	1.58	765	0.39	2.18	27.3	52.9	1150
S728834		4.95	18.95	0.13	5.1	0.060	1.75	40.9	23.5	1.60	738	0.83	1.95	17.1	58.6	750
S728835		5.86	19.00	0.13	4.0	0.064	1.83	31.9	24.4	1.87	908	0.85	1.80	14.7	66.4	970
S728836		5.28	19.15	0.13	4.5	0.056	1.83	35.6	22.6	1.69	893	0.93	1.93	16.4	61.7	960



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727945		14.3	78.7	0.002	0.01	0.47	19.0	2	1.7	226	1.11	<0.05	9.78	0.623	1.9
S727946		9.5	44.2	<0.002	<0.01	0.67	24.1	2	1.6	294	1.21	<0.05	6.21	0.712	1.5
S727947		11.9	58.3	0.002	<0.01	0.35	17.4	1	1.5	304	1.13	<0.05	7.49	0.646	2.0
S727948		13.8	82.4	0.002	0.01	0.73	21.0	2	1.7	204	0.96	<0.05	10.50	0.543	2.2
S727949		13.9	66.8	<0.002	0.02	0.31	15.6	1	1.5	290	1.19	<0.05	9.35	0.614	2.1
S727950		10.4	62.8	<0.002	0.01	0.80	19.6	1	1.7	294	0.81	<0.05	7.28	0.446	1.6
S728411		9.6	47.7	<0.002	<0.01	0.47	22.1	1	1.5	298	1.33	<0.05	6.72	0.681	1.5
S728412		9.4	49.5	0.002	<0.01	0.50	22.8	1	1.5	296	1.22	<0.05	11.30	0.671	1.4
S728413		9.2	47.4	<0.002	0.01	0.57	28.3	1	1.4	337	1.00	<0.05	6.94	0.602	1.3
S728414		13.4	68.7	<0.002	0.01	0.46	16.3	1	1.6	293	1.22	<0.05	8.47	0.602	1.6
S728415		12.2	61.9	<0.002	0.01	0.50	19.3	1	1.6	284	1.18	<0.05	8.67	0.593	1.7
S728416		11.3	60.8	<0.002	0.01	0.43	18.7	1	1.6	293	1.35	<0.05	7.77	0.655	1.6
S728417		12.4	64.5	<0.002	0.01	0.39	16.9	1	1.7	298	1.54	<0.05	9.42	0.705	2.1
S728418		10.7	57.6	<0.002	0.01	0.45	18.3	1	1.6	280	1.38	<0.05	7.57	0.680	1.5
S728419		10.8	53.2	<0.002	<0.01	0.37	16.7	1	1.6	307	1.57	<0.05	8.02	0.715	1.7
S728420		12.1	59.6	0.002	0.01	0.46	20.4	2	2.0	239	2.09	<0.05	7.80	0.823	2.7
S728421		9.8	51.8	0.002	0.01	0.49	22.8	2	2.1	263	1.91	<0.05	7.32	0.909	1.7
S728422		11.3	57.1	<0.002	<0.01	0.34	16.5	1	1.8	296	1.56	<0.05	8.55	0.718	1.7
S728423		12.1	56.9	0.002	<0.01	0.48	18.3	1	1.9	325	1.52	<0.05	9.53	0.695	2.0
S728424		11.4	59.6	<0.002	<0.01	0.33	16.4	1	1.7	285	1.63	<0.05	8.51	0.748	1.8
S728425		11.8	57.5	<0.002	0.01	0.36	16.5	1	1.7	268	1.76	<0.05	9.08	0.796	1.8
S728426		12.3	58.9	<0.002	0.01	0.44	18.8	1	1.7	335	1.25	<0.05	8.49	0.641	1.8
S728427		13.9	73.6	0.002	0.01	0.43	16.5	1	1.8	292	1.53	<0.05	10.20	0.699	2.0
S728428		14.4	74.0	0.002	0.01	0.36	13.3	1	1.5	318	0.83	0.06	8.89	0.415	1.4
S728429		10.5	50.2	<0.002	0.01	0.40	19.5	1	1.6	273	1.46	<0.05	8.14	0.734	1.6
S728430		13.0	70.1	0.002	0.01	0.33	16.1	1	1.8	281	1.59	<0.05	9.94	0.689	2.1
S728431		19.6	44.1	<0.002	0.05	0.95	46.6	4	2.9	31.4	1.10	0.09	14.80	0.762	2.6
S728432		13.3	66.3	<0.002	0.01	0.30	14.4	1	1.6	282	1.52	<0.05	8.83	0.610	2.0
S728433		12.8	71.5	<0.002	0.01	0.37	16.3	1	1.8	254	1.60	<0.05	8.84	0.693	1.8
S728434		14.5	80.5	<0.002	0.01	0.41	17.4	2	2.0	252	1.79	<0.05	10.60	0.692	2.2
S728435		11.6	59.7	<0.002	<0.01	0.38	16.6	1	1.8	279	1.64	<0.05	8.85	0.745	1.9
S728436		13.9	67.7	<0.002	<0.01	0.33	15.9	1	1.8	282	1.67	<0.05	10.20	0.710	2.1
S728437		9.7	50.1	<0.002	0.01	0.59	22.5	1	1.8	264	1.93	<0.05	7.64	0.770	1.9
S728438		12.3	69.5	<0.002	0.01	0.47	17.8	1	1.8	250	1.64	<0.05	8.91	0.717	1.9
S728439		10.8	52.8	0.002	0.01	0.51	22.5	1	1.6	255	1.42	<0.05	6.86	0.698	1.4
S728440		8.9	43.1	0.002	0.01	0.50	21.6	1	1.6	253	1.49	<0.05	6.40	0.717	1.6
S728441		8.1	36.2	<0.002	<0.01	0.52	21.1	1	1.6	265	1.56	<0.05	5.96	0.813	1.4
S728834		13.3	74.7	<0.002	0.01	0.45	16.0	1	1.7	251	1.09	<0.05	9.16	0.572	2.3
S728835		11.9	76.3	0.002	0.01	0.76	21.5	1	1.6	239	0.90	<0.05	7.38	0.601	1.5
S728836		13.0	72.1	<0.002	<0.01	0.52	18.2	1	1.7	234	1.09	<0.05	8.43	0.622	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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S727945		142	0.7	22.3	107	172.0
S727946		154	0.7	22.6	70	180.0
S727947		120	0.6	21.0	67	206
S727948		154	1.0	21.4	113	158.5
S727949		116	0.5	18.5	97	196.5
S727950		121	0.9	21.6	73	162.0
S728411		162	0.7	21.5	86	161.5
S728412		161	0.7	21.9	84	167.5
S728413		176	0.7	22.0	88	142.5
S728414		122	0.8	20.0	83	184.5
S728415		149	0.8	19.0	98	163.0
S728416		138	0.8	20.5	87	196.0
S728417		129	0.8	22.0	83	205
S728418		144	0.8	19.3	87	178.5
S728419		124	0.7	21.6	81	202
S728420		159	0.8	24.3	122	188.5
S728421		166	0.8	27.6	102	192.0
S728422		130	0.7	22.1	85	195.0
S728423		143	0.7	23.3	87	207
S728424		126	0.7	22.2	80	199.5
S728425		134	0.7	22.5	81	211
S728426		142	0.7	22.2	98	192.5
S728427		136	0.8	22.2	100	206
S728428		94	0.7	16.6	72	176.0
S728429		149	0.7	20.4	79	180.5
S728430		125	0.6	21.8	90	212
S728431		235	1.7	10.3	46	148.5
S728432		114	0.6	19.0	74	196.0
S728433		134	0.7	21.0	89	191.5
S728434		142	0.7	22.5	108	201
S728435		134	0.7	21.5	84	203
S728436		127	0.6	22.1	86	212
S728437		159	0.9	23.9	82	198.5
S728438		146	0.8	21.3	105	186.0
S728439		157	0.8	21.4	86	153.5
S728440		149	0.7	22.6	70	173.5
S728441		158	0.7	24.2	65	173.5
S728834		126	0.7	18.9	89	181.0
S728835		168	1.0	20.5	112	150.5
S728836		151	0.7	20.1	104	165.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728837		0.95	0.003	0.07	7.13	5.3	550	1.32	0.09	1.91	0.18	65.9	26.0	169	2.11	81.1
S728838		1.45	0.004	0.05	7.29	4.6	590	1.33	0.10	1.69	0.16	66.4	22.9	148	1.99	83.4
S728839		1.02	0.002	0.06	6.90	3.9	540	1.38	0.08	2.10	0.17	80.9	18.2	137	1.73	36.1
S728840		0.12	0.001	0.03	6.18	0.5	400	0.97	0.04	1.77	0.03	17.95	5.3	35	0.78	6.1
S728841		0.79	0.005	0.06	7.04	4.9	550	1.36	0.08	1.97	0.18	76.4	21.0	160	1.93	38.9
S728842		0.83	0.002	0.06	6.71	3.2	490	1.43	0.09	2.08	0.13	87.8	17.9	148	1.39	33.4
S728843		1.15	0.001	0.04	6.84	4.0	520	1.54	0.09	1.97	0.10	73.4	16.9	116	1.67	25.4
S728844		0.69	0.005	0.04	6.51	3.4	500	1.35	0.09	2.18	0.14	82.1	18.3	139	1.27	39.4



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S728837		5.76	18.80	0.13	4.8	0.060	1.72	34.9	23.0	1.94	983	0.75	1.87	16.3	70.8
S728838		5.38	18.30	0.13	4.2	0.060	1.76	34.5	21.1	1.76	909	0.54	1.89	14.4	59.5
S728839		4.75	18.35	0.14	5.7	0.056	1.73	42.7	19.3	1.42	775	0.76	2.13	17.4	49.1
S728840		1.41	14.10	0.08	1.1	0.018	1.24	8.7	7.5	0.50	248	0.06	2.75	4.3	17.0
S728841		5.02	19.00	0.13	5.1	0.056	1.73	38.2	21.9	1.72	748	0.75	2.03	17.1	65.7
S728842		4.47	18.95	0.09	5.2	0.065	1.55	42.3	19.6	1.34	716	1.30	2.15	18.7	46.2
S728843		4.27	18.95	0.07	5.0	0.051	1.68	35.8	22.3	1.27	628	0.81	2.21	17.7	41.6
S728844		4.38	17.40	0.10	5.1	0.052	1.57	38.2	17.4	1.32	702	0.54	2.10	18.5	41.7



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
S728837		12.2	65.8	<0.002	<0.01	0.59	20.1	1	1.6	222	1.02	<0.05	8.16	0.637	0.39
S728838		11.0	64.2	<0.002	0.01	0.64	20.3	1	1.5	243	0.91	<0.05	7.90	0.583	0.36
S728839		12.5	67.4	<0.002	<0.01	0.45	16.8	1	1.6	274	1.13	<0.05	9.15	0.643	0.37
S728840		6.3	48.6	<0.002	<0.01	0.10	5.5	<1	0.5	380	0.20	<0.05	1.13	0.156	0.24
S728841		12.0	69.1	<0.002	0.01	0.49	18.2	1	1.6	262	1.11	<0.05	8.50	0.628	0.36
S728842		14.5	54.9	<0.002	0.01	0.41	18.4	1	1.5	275	1.16	<0.05	8.91	0.638	0.29
S728843		13.3	62.9	<0.002	0.01	0.32	15.8	1	1.5	281	1.12	<0.05	8.15	0.584	0.35
S728844		11.6	51.5	<0.002	<0.01	0.40	18.0	1	1.4	285	1.16	<0.05	8.58	0.637	0.27



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127865

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728837		168	0.8	19.9	108	174.5
S728838		161	0.9	20.1	101	150.5
S728839		137	0.7	20.5	84	201
S728840		39	0.2	6.5	21	38.8
S728841		141	0.7	19.8	95	189.0
S728842		127	0.6	21.0	79	187.0
S728843		118	0.5	17.4	75	178.5
S728844		131	0.6	20.0	72	183.5



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127865

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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North Vancouver BC V7H 0A7
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CERTIFICATE VO16127868

Project: QK-2016-TS-002

This report is for 104 Soil samples submitted to our lab in Val d'Or, QC, Canada on 4-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-23	Pulp Login - Rcvd with Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16127868

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727810		1.06	0.005	0.04	7.51	5.9	530	1.47	0.10	1.76	0.15	81.3	23.6	155	2.07	55.4
S727811		1.31	0.002	0.10	7.56	6.7	610	1.67	0.12	1.62	0.28	83.8	19.9	109	2.81	41.4
S727812		1.41	0.003	0.08	7.40	5.5	570	1.65	0.09	1.96	0.24	89.8	28.9	182	2.14	51.1
S727813		1.27	0.002	0.07	6.87	4.3	510	1.39	0.07	2.05	0.21	89.2	22.2	161	1.58	32.5
S727814		1.26	0.002	0.05	6.84	4.4	490	1.33	0.07	2.16	0.16	86.4	17.7	137	1.30	22.4
S727815		1.06	<0.001	0.04	7.12	4.7	540	1.50	0.09	1.79	0.17	82.0	20.8	137	1.95	32.8
S727816		1.10	<0.001	0.05	7.21	4.5	540	1.63	0.08	1.92	0.15	102.5	24.2	185	1.97	39.0
S727817		1.35	<0.001	0.09	6.73	4.8	520	1.49	0.09	1.83	0.20	79.8	22.8	185	1.94	43.1
S727818		1.38	<0.001	0.04	6.99	4.5	520	1.58	0.08	1.89	0.15	87.8	22.7	178	1.71	35.0
S727819		0.99	0.001	0.07	7.16	3.9	540	1.67	0.10	1.83	0.23	95.5	25.9	173	2.20	46.2
S727820		0.04	0.391	0.56	7.31	36.7	2740	3.02	6.19	0.59	0.40	101.0	15.6	19	7.44	1480
S727821		1.27	0.002	0.06	7.20	4.4	550	1.64	0.09	1.93	0.16	85.2	24.4	170	1.90	38.6
S727822		1.84	0.004	0.09	7.06	4.8	520	1.65	0.08	2.01	0.22	89.0	27.2	179	1.89	46.9
S727823		1.42	0.003	0.06	7.11	4.2	530	1.49	0.08	2.05	0.20	76.8	22.5	157	1.61	33.0
S727824		1.33	0.001	0.09	7.52	7.2	560	1.67	0.10	1.91	0.25	90.3	27.8	188	2.32	55.5
S727825		2.16	<0.001	0.08	7.20	6.5	580	1.57	0.11	1.67	0.19	77.4	16.0	90	2.47	38.1
S727826		1.32	0.001	0.09	7.07	4.5	580	1.64	0.09	1.87	0.41	90.0	24.7	133	2.44	39.0
S727827		1.57	0.001	0.13	7.94	8.8	590	2.00	0.13	1.86	0.24	94.4	28.1	199	3.15	74.1
S727828		1.16	0.001	0.09	7.49	5.4	570	1.76	0.09	1.89	0.20	84.6	26.5	205	2.42	49.3
S727829		1.21	<0.001	0.09	7.46	5.9	580	1.76	0.09	1.88	0.25	83.4	27.1	181	2.29	50.7
S727830		1.39	0.001	0.05	7.16	4.4	530	1.46	0.08	2.07	0.14	74.6	20.4	137	1.71	33.2
S727831		1.20	<0.001	0.06	7.16	5.0	550	1.39	0.08	1.95	0.16	74.7	23.2	148	1.98	47.3
S727832		1.25	0.002	0.04	6.88	3.7	510	1.48	0.08	1.90	0.12	83.0	19.4	139	1.59	31.5
S727833		1.27	<0.001	0.10	7.29	5.7	590	1.50	0.11	1.69	0.26	74.8	20.2	81	2.62	43.5
S727834		1.40	0.012	0.04	6.67	11.8	450	1.24	0.09	1.99	0.12	71.6	22.6	246	1.31	39.6
S727835		1.66	0.002	0.09	7.46	5.5	570	1.60	0.10	1.83	0.25	78.9	26.4	190	2.48	52.2
S727836		1.62	0.001	0.09	7.26	4.9	570	1.51	0.09	1.78	0.25	86.3	17.9	139	2.21	37.9
S727837		1.52	0.001	0.08	7.53	6.2	560	1.48	0.11	1.81	0.21	78.4	24.1	191	2.34	53.4
S727838		1.57	<0.001	0.05	7.21	4.3	520	1.51	0.08	1.82	0.20	80.3	24.9	202	1.95	42.7
S727839		1.76	<0.001	0.10	7.50	5.1	610	1.62	0.11	1.67	0.23	85.4	18.8	83	2.85	40.4
S727840		0.07	<0.001	0.03	6.30	0.8	400	0.91	0.03	1.64	0.03	16.00	5.6	35	0.84	7.0
S727841		1.28	0.001	0.08	7.29	4.7	570	1.46	0.08	1.63	0.18	74.8	17.2	131	2.32	35.3
S727842		1.14	0.001	0.08	7.32	7.7	550	1.44	0.09	1.71	0.19	68.9	21.7	162	2.23	42.0
S727843		1.95	0.001	0.09	7.42	6.0	610	1.45	0.11	1.69	0.24	79.2	19.8	99	2.60	43.0
S727844		1.86	0.001	0.09	7.37	7.9	590	1.58	0.11	1.61	0.31	82.1	16.9	92	2.72	42.8
S727845		1.79	0.001	0.11	7.38	7.2	570	1.54	0.11	1.50	0.26	79.4	22.9	134	2.74	55.2
S727846		1.55	0.001	0.06	7.18	5.9	550	1.45	0.09	1.59	0.19	78.5	21.8	135	2.26	41.4
S727847		1.10	0.001	0.05	7.08	4.5	530	1.40	0.09	1.61	0.13	79.4	17.4	91	2.20	34.8
S727848		1.31	<0.001	0.06	7.29	5.1	540	1.51	0.08	1.73	0.12	75.8	22.6	167	2.02	35.5
S727849		1.20	0.003	0.03	6.85	3.4	470	1.20	0.07	2.35	0.13	78.3	17.6	172	1.05	18.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
S727810		5.42	20.8	0.18	4.6	0.066	1.74	38.1	26.3	1.68	898	0.72	1.92	19.2	58.1	890
S727811		5.13	21.0	0.19	5.2	0.054	2.16	43.1	30.9	1.37	738	2.14	1.90	16.2	51.5	950
S727812		5.73	21.1	0.18	4.9	0.070	1.79	41.3	26.3	1.68	998	1.11	1.99	23.1	79.9	1140
S727813		4.91	19.05	0.18	5.5	0.060	1.68	44.2	21.5	1.37	783	0.82	2.07	21.3	56.3	1110
S727814		4.47	19.25	0.18	5.4	0.062	1.62	41.2	18.8	1.27	688	0.73	2.30	20.3	44.8	1100
S727815		4.91	20.0	0.13	5.0	0.064	1.85	37.9	23.1	1.40	758	1.28	2.02	20.6	53.1	930
S727816		5.34	22.4	0.18	5.7	0.073	1.79	51.7	23.6	1.57	774	1.20	2.04	25.9	63.5	1000
S727817		5.34	19.15	0.14	4.8	0.054	1.73	40.9	21.4	1.52	783	1.35	1.89	21.4	67.7	1040
S727818		5.12	19.60	0.15	5.0	0.056	1.74	44.0	21.4	1.49	824	1.08	2.02	22.7	58.7	1010
S727819		5.37	21.4	0.15	4.9	0.065	1.74	48.2	24.2	1.63	721	1.23	1.91	24.4	69.7	1050
S727820		4.01	27.2	0.18	7.3	0.692	2.87	51.1	19.3	0.26	360	3.36	2.44	19.5	9.7	270
S727821		5.43	20.3	0.14	4.6	0.064	1.77	42.3	22.3	1.63	872	0.95	2.02	23.5	65.6	1030
S727822		5.77	19.85	0.16	4.4	0.067	1.68	44.6	21.7	1.70	945	1.24	1.94	23.1	75.0	1150
S727823		5.33	19.20	0.14	4.5	0.057	1.73	38.0	20.3	1.59	843	1.00	2.12	22.6	60.1	1120
S727824		6.14	21.0	0.15	4.6	0.064	1.81	46.5	24.2	1.84	971	1.20	1.89	23.4	84.4	1120
S727825		4.80	20.2	0.14	4.9	0.062	2.06	41.1	26.8	1.31	564	1.82	2.02	16.4	42.1	950
S727826		5.42	20.3	0.13	5.1	0.058	1.83	44.0	24.8	1.53	811	1.25	1.90	20.5	67.7	1160
S727827		6.66	24.2	0.17	5.4	0.077	1.99	53.3	29.2	1.84	860	1.81	1.84	24.5	89.7	1110
S727828		5.84	21.0	0.15	4.8	0.062	1.90	46.2	25.5	1.80	921	1.32	1.92	22.1	79.5	1150
S727829		6.01	20.5	0.15	4.6	0.063	1.94	42.2	25.0	1.84	913	1.36	1.86	22.5	80.3	1100
S727830		4.92	19.10	0.12	4.5	0.052	1.80	37.4	21.1	1.53	741	0.87	2.09	18.9	52.6	970
S727831		5.12	18.85	0.13	4.4	0.055	1.86	38.7	23.1	1.57	888	0.99	1.88	17.8	66.5	900
S727832		4.59	19.10	0.15	4.5	0.057	1.66	41.5	19.7	1.35	686	0.77	2.06	20.0	49.3	910
S727833		5.05	19.90	0.12	4.3	0.054	2.15	38.3	26.2	1.41	749	1.77	1.91	13.1	43.9	950
S727834		4.93	17.35	0.13	4.2	0.055	1.40	35.6	20.1	2.08	774	0.60	1.87	15.2	66.9	890
S727835		5.65	20.5	0.16	4.4	0.058	1.98	40.5	27.2	1.83	724	1.50	1.88	18.0	86.4	990
S727836		4.78	19.40	0.14	4.7	0.051	2.07	43.8	24.6	1.47	528	1.93	1.93	19.9	52.8	1050
S727837		5.71	20.1	0.15	5.1	0.059	2.01	42.1	24.9	1.70	803	1.39	1.92	18.6	79.4	1010
S727838		5.15	19.70	0.15	4.3	0.059	1.81	39.0	23.6	1.67	690	1.10	1.96	19.8	74.7	890
S727839		4.60	21.6	0.15	4.8	0.050	2.19	43.9	28.3	1.28	628	1.70	2.16	14.5	47.0	890
S727840		1.30	14.40	0.05	1.3	0.017	1.30	7.9	8.1	0.50	231	0.05	2.84	2.2	19.5	180
S727841		4.65	19.80	0.13	4.6	0.051	2.03	40.0	26.8	1.44	584	1.18	1.96	15.5	47.4	840
S727842		5.27	19.30	0.14	4.2	0.061	1.97	36.6	24.4	1.63	731	1.31	1.89	16.5	64.3	850
S727843		4.71	20.2	0.12	4.5	0.053	2.11	39.9	26.0	1.37	822	1.49	2.07	13.9	52.3	980
S727844		5.52	20.6	0.14	4.4	0.060	2.13	42.1	26.2	1.32	539	2.18	1.97	14.2	49.1	880
S727845		5.66	20.2	0.14	4.8	0.064	2.12	41.6	26.9	1.58	698	1.72	1.78	15.0	66.6	930
S727846		4.97	19.45	0.13	4.2	0.056	1.95	39.6	25.0	1.48	743	1.24	1.83	16.4	56.6	860
S727847		4.49	19.55	0.14	4.5	0.053	1.93	41.3	23.7	1.25	610	1.18	1.96	14.4	37.4	800
S727848		5.04	19.10	0.12	4.5	0.058	1.88	37.6	23.8	1.57	768	1.05	1.93	16.9	59.0	850
S727849		4.40	17.70	0.12	4.7	0.058	1.47	36.9	14.5	1.38	759	0.51	2.34	20.5	50.0	1000



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727810		11.2	61.1	<0.002	0.01	0.56	22.2	1	1.6	223	1.19	<0.05	8.32	0.677	1.8
S727811		15.5	86.6	<0.002	0.01	0.58	17.9	1	1.5	216	1.00	<0.05	11.00	0.565	2.7
S727812		13.1	62.8	<0.002	<0.01	0.43	21.2	1	1.7	224	1.49	<0.05	9.68	0.716	1.8
S727813		12.9	59.1	<0.002	<0.01	0.40	19.8	1	1.6	234	1.40	<0.05	8.68	0.754	1.9
S727814		10.7	52.8	<0.002	<0.01	0.45	19.9	1	1.6	263	1.35	<0.05	7.47	0.701	1.9
S727815		14.3	70.4	<0.002	0.01	0.44	17.5	1	1.6	230	1.27	<0.05	9.03	0.646	2.0
S727816		13.1	72.8	<0.002	0.01	0.44	21.6	1	1.8	222	1.59	<0.05	9.77	0.755	2.0
S727817		12.7	68.8	<0.002	<0.01	0.46	18.5	1	1.5	202	1.33	<0.05	8.56	0.687	1.6
S727818		12.5	64.8	<0.002	0.01	0.40	18.7	2	1.6	223	1.38	<0.05	8.63	0.733	1.8
S727819		14.0	76.0	<0.002	0.01	0.48	20.8	2	1.8	206	1.48	<0.05	9.69	0.721	2.0
S727820		31.3	145.0	<0.002	0.07	2.17	5.6	5	4.2	164.0	1.42	0.09	15.40	0.123	5.3
S727821		12.6	69.4	<0.002	0.01	0.38	19.2	2	1.7	221	1.39	<0.05	8.66	0.711	1.8
S727822		12.0	67.0	<0.002	0.01	0.42	19.9	1	1.7	204	1.42	<0.05	8.58	0.759	1.6
S727823		11.3	62.3	<0.002	<0.01	0.39	18.5	2	1.6	228	1.39	<0.05	8.02	0.734	1.6
S727824		13.3	75.1	<0.002	0.01	0.50	21.0	1	1.8	215	1.44	<0.05	9.45	0.720	2.1
S727825		16.7	84.9	<0.002	0.01	0.47	15.7	1	1.5	247	1.01	<0.05	10.10	0.551	2.3
S727826		14.5	78.8	<0.002	0.02	0.48	18.4	1	1.6	224	1.21	<0.05	9.80	0.670	2.7
S727827		14.9	94.3	<0.002	0.01	0.58	23.1	2	1.9	207	1.49	<0.05	11.85	0.718	2.4
S727828		13.4	77.9	<0.002	0.01	0.47	19.5	1	1.7	216	1.38	<0.05	9.69	0.682	2.3
S727829		12.8	77.5	<0.002	0.01	0.45	19.4	1	1.7	198.0	1.36	<0.05	9.19	0.696	1.7
S727830		12.1	64.8	<0.002	<0.01	0.43	18.1	1	1.5	249	1.14	<0.05	8.61	0.655	2.0
S727831		12.3	72.5	<0.002	0.01	0.47	17.9	1	1.4	215	1.12	<0.05	8.42	0.610	1.8
S727832		12.0	60.7	<0.002	0.01	0.39	17.4	1	1.5	244	1.23	<0.05	8.30	0.659	1.8
S727833		15.9	86.9	<0.002	<0.01	0.48	15.6	1	1.5	221	0.87	<0.05	9.84	0.530	2.1
S727834		10.2	49.7	<0.002	0.01	0.88	22.0	1	1.4	231	0.95	<0.05	7.09	0.594	1.6
S727835		14.2	81.5	<0.002	0.01	0.53	19.1	2	1.5	209	1.09	<0.05	9.52	0.630	2.2
S727836		14.0	74.8	<0.002	0.01	0.56	17.3	1	1.5	211	1.21	<0.05	9.79	0.690	2.7
S727837		14.5	77.7	<0.002	0.01	0.52	19.0	1	1.5	211	1.19	<0.05	9.68	0.652	2.4
S727838		12.6	68.8	<0.002	0.01	0.44	19.6	1	1.5	215	1.15	0.05	8.51	0.647	1.9
S727839		17.5	95.9	<0.002	<0.01	0.45	15.9	1	1.5	261	0.93	<0.05	12.05	0.512	2.6
S727840		6.4	49.5	<0.002	<0.01	0.10	5.5	1	0.4	393	0.16	<0.05	0.97	0.132	0.3
S727841		13.3	79.8	<0.002	0.01	0.44	17.0	1	1.5	220	0.98	<0.05	9.38	0.572	2.4
S727842		13.4	75.0	<0.002	0.01	0.53	18.3	1	1.5	208	1.02	<0.05	9.00	0.591	2.0
S727843		16.3	87.6	<0.002	0.01	0.47	15.3	1	1.5	268	0.88	<0.05	10.05	0.497	2.4
S727844		15.9	88.9	<0.002	0.01	0.50	16.3	2	1.5	233	0.90	<0.05	11.00	0.530	2.9
S727845		15.1	86.2	<0.002	<0.01	0.56	17.8	1	1.5	186.5	0.91	0.05	10.20	0.557	2.4
S727846		13.6	75.0	<0.002	0.01	0.44	17.1	2	1.4	196.0	1.02	<0.05	11.25	0.566	2.1
S727847		13.8	75.6	<0.002	0.01	0.43	16.2	1	1.3	225	0.91	0.05	8.97	0.568	2.2
S727848		12.8	71.3	<0.002	0.01	0.43	18.0	1	1.4	219	1.08	<0.05	9.53	0.616	2.0
S727849		9.9	49.6	<0.002	<0.01	0.41	19.0	1	1.6	285	1.31	<0.05	7.07	0.704	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S727810		146	1.0	23.7	90	170.0
S727811		127	0.7	20.5	109	195.5
S727812		147	0.8	24.3	102	182.5
S727813		135	0.6	23.7	81	201
S727814		124	1.0	26.1	71	197.5
S727815		128	0.6	18.9	91	182.5
S727816		143	0.7	24.4	91	208
S727817		139	0.6	21.5	103	176.5
S727818		136	0.6	21.4	88	187.5
S727819		141	0.7	23.1	103	181.0
S727820		10	2.8	16.6	138	262
S727821		143	0.7	21.1	96	177.5
S727822		151	0.6	23.1	104	169.0
S727823		144	0.7	21.0	92	169.5
S727824		153	0.7	23.6	114	173.0
S727825		120	0.6	18.2	104	178.0
S727826		137	0.6	20.8	124	208
S727827		162	0.8	26.2	128	199.5
S727828		144	0.7	21.8	109	179.0
S727829		150	0.7	21.6	116	173.0
S727830		135	0.6	18.9	86	166.5
S727831		133	0.6	19.3	96	162.5
S727832		126	0.6	19.8	81	167.5
S727833		129	0.6	17.1	114	153.5
S727834		141	1.0	19.7	75	155.5
S727835		147	0.6	20.1	114	160.5
S727836		134	0.6	20.1	104	176.0
S727837		144	0.7	20.6	111	174.0
S727838		140	0.7	20.4	92	161.5
S727839		117	0.6	18.5	103	166.0
S727840		34	0.2	5.2	20	42.1
S727841		125	0.6	18.4	98	167.5
S727842		136	0.7	18.9	105	153.5
S727843		116	0.6	17.8	100	165.5
S727844		123	0.6	18.1	111	159.5
S727845		134	0.6	19.3	116	179.5
S727846		128	0.6	18.8	100	158.5
S727847		121	0.6	18.3	88	165.5
S727848		136	0.6	18.6	89	164.5
S727849		122	0.8	21.5	66	171.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727850		1.19	<0.001	0.03	7.02	5.0	520	1.41	0.08	1.78	0.13	87.9	19.7	123	1.82	36.0
S727851		1.48	0.038	0.06	7.51	6.8	580	1.42	0.10	1.90	0.18	80.1	17.0	107	1.48	25.9
S727852		0.94	0.003	0.07	7.83	8.1	540	1.80	0.14	1.62	0.14	84.2	26.2	149	2.84	57.1
S727853		0.88	0.003	0.07	7.65	5.3	630	1.50	0.11	1.93	0.20	85.7	15.6	104	1.81	25.8
S727854		1.13	0.003	0.08	7.74	7.0	540	1.53	0.11	1.96	0.16	71.9	28.3	220	2.18	52.5
S727855		1.34	0.008	0.05	7.52	5.1	540	1.56	0.09	1.88	0.12	78.2	22.7	183	1.85	40.3
S727856		1.23	0.003	0.02	7.75	6.1	510	1.38	0.09	1.74	0.13	85.6	22.3	181	1.62	38.9
S727857		1.41	0.001	0.07	7.42	6.0	550	1.56	0.09	1.89	0.21	74.8	23.0	139	2.20	43.6
S727858		0.89	0.004	0.04	7.56	7.1	470	1.34	0.10	1.76	0.11	70.1	24.8	186	1.67	48.4
S727859		1.14	0.003	0.06	7.37	8.0	490	1.54	0.10	1.80	0.21	72.8	25.2	202	1.86	52.0
S727860		1.10	0.003	0.06	7.60	11.1	610	1.60	0.12	1.88	0.15	69.6	25.2	207	2.32	44.5
S727861		1.03	0.003	0.07	7.89	12.4	630	1.55	0.12	1.99	0.14	71.2	25.4	220	2.38	45.7
S727862		0.82	0.027	0.04	7.14	11.4	470	1.18	0.09	2.77	0.13	58.8	39.6	295	1.97	79.4
S727863		1.18	0.001	0.06	7.53	6.2	540	1.61	0.10	1.86	0.15	77.2	21.1	173	2.26	49.6
S727864		1.23	0.001	0.08	7.64	5.9	560	1.65	0.10	2.03	0.21	73.8	26.3	211	2.29	50.6
S727865		1.34	0.005	0.02	7.00	4.0	400	1.14	0.07	2.64	0.09	65.0	22.9	233	1.03	27.1
S727866		1.12	0.002	0.07	7.94	7.0	570	1.59	0.10	1.87	0.24	74.8	26.4	215	2.33	52.7
S727867		1.60	0.002	0.06	7.67	6.9	570	1.52	0.11	1.78	0.20	77.8	27.4	185	2.18	44.3
S727868		1.26	0.003	0.04	7.61	4.3	550	1.80	0.09	1.77	0.10	73.3	21.1	174	2.13	41.6
S727869		1.70	0.001	0.08	7.48	5.7	550	1.57	0.10	1.85	0.18	79.7	22.1	157	2.37	43.5
S727870		1.51	<0.001	0.03	7.33	4.4	530	1.42	0.07	2.06	0.15	71.1	23.5	220	1.65	33.8
S727871		1.10	0.068	0.03	7.43	5.3	520	1.55	0.09	1.88	0.12	74.6	24.4	181	1.99	41.3
S727872		1.47	0.012	0.04	6.97	6.2	430	1.19	0.07	2.73	0.14	60.3	26.7	244	1.37	61.7
S727873		1.37	0.004	0.02	6.98	6.8	420	1.17	0.08	2.45	0.09	57.0	31.0	332	1.59	53.2
S727874		1.23	0.005	0.04	7.07	6.3	480	1.29	0.09	2.42	0.14	60.7	28.5	273	1.64	58.3
S727875		0.97	0.002	0.04	6.92	4.3	500	1.30	0.09	2.98	0.18	77.1	32.5	237	1.62	32.4
S727876		1.31	0.002	0.05	6.73	4.6	490	1.21	0.08	3.30	0.16	58.2	36.5	343	1.78	43.4
S727877		0.87	0.001	0.04	7.06	4.5	490	1.47	0.08	2.25	0.11	61.7	28.1	271	1.88	38.9
S727878		0.96	0.001	0.08	7.00	4.1	490	1.50	0.06	2.01	0.13	73.3	22.1	182	1.67	39.1
S727879		0.86	0.001	0.04	6.94	4.3	460	1.44	0.07	2.25	0.11	71.0	24.3	254	1.53	38.0
S727880		0.05	<0.001	0.04	9.42	10.4	150	1.03	0.35	0.32	0.02	51.2	8.2	114	6.76	33.1
S727881		1.20	0.002	0.08	7.72	7.4	570	1.58	0.12	1.93	0.19	78.8	26.8	165	2.70	60.0
S727882		1.53	0.004	0.05	7.95	6.8	560	1.56	0.12	1.56	0.09	66.9	25.4	148	3.20	56.9
S727883		1.46	<0.001	0.06	7.52	5.3	550	1.60	0.09	1.99	0.19	81.6	25.3	134	2.01	47.6
S727884		1.25	0.002	0.05	7.26	4.7	510	1.36	0.08	2.33	0.16	71.5	23.0	134	1.65	65.8
S727885		0.75	0.005	0.03	6.80	4.0	400	1.21	0.06	3.06	0.15	59.3	28.9	255	1.30	61.5
S727886		0.93	0.002	0.06	7.43	2.9	460	0.99	0.08	2.77	0.16	55.1	35.1	118	1.65	139.5
S727887		1.13	0.004	0.06	6.70	4.7	490	1.35	0.10	2.20	0.13	65.4	22.5	152	1.74	68.1
S727888		0.84	0.004	0.04	6.64	3.2	440	1.30	0.06	2.54	0.13	61.7	19.0	115	1.29	40.1
S727889		0.79	0.002	0.20	6.79	3.8	440	1.31	0.08	2.67	0.18	58.8	22.7	137	1.54	76.8



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727850		4.63	18.65	0.13	4.5	0.059	1.78	36.5	21.7	1.32	749	0.86	2.12	16.6	59.0	880
S727851		4.17	18.40	0.14	4.7	0.051	1.90	37.6	19.5	1.25	940	0.87	2.25	13.5	47.0	860
S727852		5.81	21.1	0.16	4.6	0.066	1.98	43.9	31.0	1.70	994	1.68	1.80	17.3	67.7	970
S727853		3.95	18.25	0.14	5.0	0.043	2.12	39.5	21.1	1.17	672	0.69	2.29	14.5	42.8	1000
S727854		5.99	19.50	0.16	4.4	0.060	1.81	39.8	27.7	2.07	987	1.14	1.84	19.4	91.7	1030
S727855		5.17	19.30	0.16	4.5	0.058	1.86	37.5	25.2	1.64	801	0.90	2.01	19.2	64.7	880
S727856		5.26	19.45	0.15	4.6	0.060	1.71	41.3	21.7	1.68	877	0.64	2.03	19.8	59.1	900
S727857		5.13	19.75	0.14	4.4	0.052	1.97	37.2	27.2	1.58	828	1.38	1.98	17.1	66.2	1030
S727858		5.37	20.6	0.16	4.5	0.066	1.54	34.4	21.6	1.79	881	0.69	1.89	18.5	66.9	860
S727859		5.46	18.90	0.14	4.5	0.060	1.62	35.8	22.8	1.85	1060	0.87	1.79	17.1	74.5	970
S727860		5.01	18.90	0.16	3.8	0.047	1.82	33.6	25.4	2.04	799	0.64	1.92	12.5	88.4	860
S727861		5.31	19.60	0.16	4.1	0.051	1.90	34.8	26.0	2.12	869	0.61	2.03	13.0	90.7	860
S727862		5.91	16.95	0.14	3.7	0.047	1.41	27.4	21.7	2.52	989	0.61	2.04	14.8	83.3	900
S727863		5.12	20.0	0.15	4.2	0.063	1.84	37.8	26.7	1.76	616	0.97	1.91	17.3	70.6	710
S727864		5.71	20.8	0.13	4.4	0.060	1.90	36.8	29.0	1.95	777	1.07	1.89	19.5	89.5	940
S727865		4.92	16.70	0.11	4.0	0.058	1.25	29.4	15.8	1.92	822	0.46	2.11	18.2	69.4	930
S727866		5.94	20.2	0.16	4.6	0.058	1.91	37.9	28.0	2.03	1010	1.13	1.84	18.5	92.3	1010
S727867		5.37	19.65	0.14	4.2	0.057	1.92	36.2	26.2	1.78	1010	1.07	1.88	17.7	80.7	970
S727868		5.11	20.6	0.15	4.2	0.060	1.90	35.7	28.8	1.74	627	0.93	1.92	17.9	64.9	770
S727869		5.15	20.5	0.16	4.7	0.059	1.88	39.3	27.9	1.65	608	0.99	1.93	18.1	64.1	830
S727870		5.12	18.40	0.13	4.7	0.055	1.73	34.0	23.4	1.84	750	0.80	2.02	18.3	68.7	830
S727871		5.27	19.65	0.15	4.7	0.053	1.75	36.1	26.2	1.74	798	0.92	1.94	20.4	72.7	860
S727872		5.32	17.00	0.13	4.4	0.058	1.33	28.5	18.3	2.37	850	0.44	2.07	14.1	86.9	1010
S727873		5.52	16.80	0.14	3.7	0.050	1.29	26.9	20.4	3.06	870	0.51	1.87	15.3	135.5	800
S727874		5.38	17.55	0.12	3.9	0.055	1.47	29.1	21.5	2.41	899	0.59	1.93	14.7	100.5	890
S727875		5.05	17.95	0.15	4.2	0.047	1.57	33.2	20.4	2.67	1130	0.52	1.98	14.6	86.4	900
S727876		5.95	16.75	0.10	3.6	0.048	1.50	28.7	20.9	3.68	1040	0.54	1.77	13.7	114.0	940
S727877		5.49	18.90	0.13	4.0	0.062	1.69	30.8	24.6	2.31	844	0.97	1.84	17.8	82.4	910
S727878		5.04	18.65	0.14	4.6	0.060	1.65	37.1	22.6	1.67	762	0.95	1.93	19.1	67.0	930
S727879		5.25	17.95	0.16	4.2	0.052	1.58	35.2	21.5	2.05	808	0.82	1.93	19.4	74.7	860
S727880		6.58	26.9	0.14	5.1	0.086	0.49	23.6	38.0	0.32	483	2.84	0.13	24.6	49.1	510
S727881		5.38	20.1	0.17	4.2	0.058	1.87	38.3	28.4	1.80	1040	0.92	1.94	14.6	74.1	960
S727882		6.03	20.7	0.14	4.0	0.060	1.80	32.3	31.1	1.87	831	1.18	1.74	15.0	65.3	1050
S727883		5.30	20.4	0.18	4.7	0.057	1.82	40.4	25.1	1.61	927	1.00	2.09	17.8	62.9	920
S727884		5.19	19.15	0.13	4.6	0.062	1.63	34.6	21.6	1.66	886	0.76	2.15	17.0	53.9	1020
S727885		5.50	17.05	0.13	3.7	0.056	1.25	28.1	18.2	2.49	1010	0.54	2.00	14.7	76.6	890
S727886		6.11	17.60	0.12	3.5	0.052	1.39	26.4	25.1	2.17	1170	0.45	1.99	9.8	45.6	1010
S727887		4.89	17.35	0.13	4.1	0.050	1.51	30.0	22.1	1.75	883	0.57	2.01	13.5	58.9	970
S727888		4.69	16.10	0.11	4.5	0.056	1.38	27.7	17.9	1.58	826	0.50	2.19	13.5	43.2	990
S727889		5.22	16.40	0.12	3.8	0.055	1.38	26.2	20.3	1.82	952	0.46	1.90	12.4	52.7	980



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727850		13.8	66.6	<0.002	0.01	0.35	16.1	1	1.4	245	1.03	<0.05	8.66	0.593	2.1
S727851		15.8	60.2	<0.002	0.01	0.40	15.6	1	1.4	281	0.88	<0.05	7.58	0.513	1.9
S727852		16.4	82.1	<0.002	0.02	0.47	19.5	1	1.6	204	1.10	<0.05	10.60	0.624	2.6
S727853		13.7	69.2	<0.002	<0.01	0.37	14.2	1	1.5	303	0.96	<0.05	9.21	0.531	1.9
S727854		12.0	68.7	<0.002	0.01	0.47	21.1	2	1.6	195.0	1.23	<0.05	8.82	0.679	2.2
S727855		12.0	66.6	<0.002	0.01	0.39	19.2	1	1.5	218	1.18	<0.05	8.11	0.668	1.9
S727856		10.7	60.8	<0.002	0.01	0.44	21.0	1	1.6	218	1.19	<0.05	7.88	0.699	1.8
S727857		13.6	73.9	<0.002	<0.01	0.43	18.0	1	1.4	226	1.08	<0.05	8.76	0.621	2.1
S727858		10.6	59.0	<0.002	0.01	0.63	25.2	1	1.6	219	1.11	<0.05	7.12	0.692	1.7
S727859		12.6	61.5	<0.002	0.01	0.57	21.5	1	1.4	204	1.06	<0.05	7.45	0.637	1.9
S727860		11.8	66.8	<0.002	0.01	0.60	19.1	1	1.4	275	0.82	<0.05	7.36	0.488	1.4
S727861		12.7	70.3	<0.002	0.01	0.58	19.9	1	1.4	292	0.85	<0.05	7.84	0.511	1.4
S727862		7.8	49.4	<0.002	0.01	0.84	31.6	1	1.3	271	0.87	<0.05	4.98	0.625	1.3
S727863		13.1	74.8	<0.002	<0.01	0.50	20.3	1	1.4	223	1.06	<0.05	9.20	0.616	2.0
S727864		13.0	70.5	<0.002	0.01	0.43	21.3	1	1.6	205	1.21	<0.05	9.41	0.666	2.3
S727865		8.0	38.5	<0.002	<0.01	0.52	22.8	1	1.3	267	1.09	<0.05	5.74	0.767	1.3
S727866		12.5	74.0	<0.002	0.01	0.49	21.5	1	1.5	205	1.11	<0.05	9.19	0.656	2.0
S727867		12.9	68.3	<0.002	0.01	0.45	19.4	1	1.6	216	1.07	<0.05	8.65	0.611	1.9
S727868		12.8	67.6	<0.002	0.01	0.41	19.4	1	1.5	208	1.10	<0.05	8.58	0.634	2.0
S727869		13.8	77.0	<0.002	0.01	0.43	19.7	1	1.5	218	1.13	<0.05	9.45	0.644	2.2
S727870		11.1	59.8	<0.002	0.01	0.37	19.5	1	1.4	228	1.12	<0.05	8.33	0.665	1.9
S727871		11.9	67.8	<0.002	0.01	0.37	19.5	1	1.5	219	1.19	<0.05	8.40	0.665	2.1
S727872		9.0	39.9	<0.002	0.01	0.52	25.9	1	1.2	318	0.86	<0.05	5.70	0.592	1.5
S727873		8.8	47.3	<0.002	0.01	0.64	26.9	1	1.3	252	0.87	<0.05	5.60	0.595	1.3
S727874		10.1	48.4	<0.002	0.01	0.48	23.7	1	1.3	265	0.91	<0.05	6.02	0.598	1.4
S727875		11.6	57.9	<0.002	<0.01	0.38	22.0	1	1.3	291	0.92	<0.05	7.20	0.525	1.5
S727876		10.2	52.4	<0.002	<0.01	0.38	25.1	1	1.2	262	0.80	<0.05	6.39	0.539	1.5
S727877		10.8	61.4	<0.002	0.01	0.37	21.5	1	1.4	204	1.09	<0.05	7.25	0.646	1.7
S727878		11.0	58.5	<0.002	0.01	0.35	19.4	1	1.4	209	1.22	<0.05	7.58	0.689	1.8
S727879		10.2	56.7	<0.002	0.01	0.33	20.7	1	1.4	213	1.14	<0.05	7.17	0.704	1.6
S727880		24.0	63.9	<0.002	0.05	0.71	15.2	4	4.1	51.7	1.79	0.06	16.90	1.050	3.1
S727881		14.2	77.9	<0.002	0.01	0.52	20.6	1	1.5	266	0.90	<0.05	9.33	0.533	2.0
S727882		15.1	77.9	<0.002	0.02	0.42	19.2	1	1.4	219	0.93	<0.05	9.05	0.543	2.3
S727883		13.5	70.7	<0.002	0.01	0.42	20.2	1	1.6	241	1.12	<0.05	8.46	0.651	2.1
S727884		11.9	53.2	<0.002	0.01	0.45	23.2	1	1.4	287	1.02	<0.05	7.74	0.625	2.0
S727885		8.1	45.7	<0.002	<0.01	0.49	29.4	1	1.3	298	0.86	<0.05	4.60	0.587	1.4
S727886		9.3	45.3	<0.002	0.01	0.31	21.8	1	1.0	344	0.63	0.06	5.15	0.479	1.4
S727887		11.9	57.5	<0.002	0.01	0.53	21.5	1	1.3	289	0.86	<0.05	7.11	0.537	1.7
S727888		10.1	47.4	<0.002	<0.01	0.43	22.6	1	1.2	306	0.89	0.05	6.78	0.598	1.4
S727889		9.6	49.1	<0.002	<0.01	0.57	24.0	1	1.1	297	0.80	0.05	5.64	0.549	1.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727850		122	0.5	17.9	82	162.5
S727851		104	1.0	21.1	76	176.0
S727852		145	0.8	23.1	111	173.0
S727853		101	1.0	21.1	71	186.5
S727854		156	0.8	23.7	108	167.5
S727855		140	0.7	21.7	88	176.5
S727856		146	1.0	23.1	87	176.5
S727857		135	0.6	20.5	102	170.5
S727858		154	1.0	24.1	83	171.5
S727859		146	0.8	23.5	99	174.0
S727860		127	1.2	19.6	84	145.5
S727861		130	1.2	20.4	86	151.5
S727862		168	1.7	21.1	93	142.0
S727863		143	0.7	20.7	100	162.5
S727864		154	0.7	22.4	111	163.0
S727865		155	0.8	21.0	72	151.0
S727866		156	0.8	22.6	112	170.0
S727867		138	0.9	21.7	98	157.5
S727868		143	0.6	20.1	96	159.0
S727869		142	0.6	21.8	102	177.0
S727870		141	0.6	19.9	90	175.0
S727871		142	0.7	20.7	92	175.0
S727872		161	0.8	19.9	85	169.0
S727873		160	0.9	19.6	84	136.0
S727874		156	0.7	20.0	87	144.0
S727875		137	0.8	18.8	74	167.5
S727876		154	0.6	18.1	89	138.0
S727877		149	0.6	19.5	94	152.5
S727878		140	0.6	22.3	84	173.5
S727879		146	0.6	21.5	83	164.0
S727880		161	2.4	15.0	45	188.0
S727881		145	0.8	21.4	103	155.5
S727882		158	0.7	17.9	120	153.5
S727883		147	0.7	23.8	96	169.5
S727884		155	0.6	21.3	91	169.0
S727885		172	0.7	20.3	84	138.0
S727886		173	0.6	17.3	104	129.0
S727887		138	0.7	20.0	86	147.0
S727888		154	0.6	19.9	73	156.0
S727889		166	0.7	19.3	85	138.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727890		0.88	0.005	0.11	7.49	5.4	550	1.56	0.10	1.93	0.17	59.7	26.1	140	2.85	135.0
S727891		1.25	0.008	0.05	7.02	4.9	510	1.54	0.08	2.07	0.15	60.4	22.0	120	1.78	89.6
S727892		0.90	<0.001	0.04	6.55	3.8	480	1.39	0.08	2.09	0.13	68.4	15.9	104	1.39	25.8
S727893		0.87	0.003	0.05	6.90	4.7	500	1.55	0.08	2.10	0.12	69.6	22.7	139	1.81	41.6
S727894		0.89	0.002	0.08	7.36	4.3	450	1.28	0.09	2.13	0.16	51.8	28.5	125	2.11	92.1
S727895		0.74	0.002	0.05	7.15	3.7	620	1.25	0.08	2.23	0.24	61.4	25.8	148	1.67	147.0
S727896		1.06	0.002	0.05	7.17	5.6	520	1.50	0.10	1.94	0.14	66.3	21.3	152	1.89	39.4
S727897		0.97	0.005	0.05	6.99	4.3	530	1.14	0.08	2.34	0.20	61.0	27.0	173	1.47	63.4
S727898		1.21	0.002	0.07	7.14	6.2	480	1.25	0.10	2.15	0.16	60.4	27.9	199	1.84	65.3
S727899		1.45	0.004	0.04	7.41	6.3	430	1.13	0.07	2.56	0.14	58.5	29.6	187	1.79	91.5
S727900		0.08	<0.001	0.02	6.43	0.9	400	1.07	0.05	1.89	0.04	22.6	6.2	39	0.88	8.3
S727901		1.84	0.002	0.06	7.27	8.1	520	1.49	0.10	2.33	0.15	69.5	33.0	211	2.19	75.5
S727902		1.72	0.002	0.09	7.62	9.2	550	1.85	0.16	1.93	0.19	76.8	29.0	198	2.49	59.3
S727903		1.14	0.002	0.06	7.70	7.8	560	1.63	0.12	1.68	0.20	70.9	26.2	170	2.51	52.0
S727904		1.39	0.006	0.08	7.66	8.8	540	1.49	0.13	1.43	0.23	71.3	31.9	235	2.13	64.0
S727905		1.29	0.001	0.07	7.66	8.9	550	1.77	0.13	1.75	0.19	74.6	28.0	197	2.52	54.3
S727906		1.44	0.005	0.07	7.41	6.8	550	1.56	0.10	1.91	0.16	72.6	19.3	163	2.45	43.1
S727907		1.26	<0.001	0.10	7.61	5.2	600	1.66	0.11	1.89	0.28	77.9	22.3	127	2.80	46.5
S727908		1.49	0.003	0.06	7.21	4.7	500	1.40	0.11	2.02	0.18	75.7	23.2	183	1.74	38.3
S727909		1.33	0.005	0.05	7.14	4.2	550	1.50	0.08	2.06	0.15	73.9	18.0	115	1.68	28.2
S727910		1.31	0.001	0.04	7.24	4.1	510	1.37	0.08	2.08	0.15	67.6	20.0	160	1.62	36.5
S727911		0.89	<0.001	0.05	7.26	4.0	550	1.53	0.09	1.89	0.18	67.9	17.2	95	1.99	33.7
S727912		0.94	0.002	0.04	6.86	3.8	480	1.27	0.07	2.07	0.13	68.6	18.4	142	1.27	32.1
S727913		1.18	0.005	0.04	6.85	7.8	470	1.30	0.07	2.15	0.16	65.7	19.8	152	1.40	31.8



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 2103 Dollarton Hwy
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CERTIFICATE OF ANALYSIS VO16127868

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727890		5.74	18.65	0.13	3.6	0.056	1.83	30.0	31.8	2.02	847	0.59	1.77	13.1	64.8	950
S727891		5.01	17.15	0.11	3.9	0.055	1.61	28.4	24.4	1.66	826	0.64	2.02	14.1	48.9	970
S727892		4.03	18.00	0.14	5.0	0.051	1.53	33.1	20.8	1.17	619	0.66	2.20	16.8	40.1	970
S727893		5.02	19.15	0.13	4.5	0.053	1.61	32.3	23.9	1.63	828	0.77	2.02	16.9	60.2	900
S727894		6.36	18.65	0.11	3.3	0.067	1.47	24.9	24.5	1.97	1030	0.71	1.81	12.0	55.4	930
S727895		5.69	17.50	0.12	3.7	0.070	1.55	28.9	20.7	1.61	1070	0.50	2.05	14.3	48.1	1070
S727896		4.94	19.10	0.13	4.9	0.052	1.66	30.8	23.7	1.63	781	0.82	2.06	15.6	57.9	900
S727897		5.39	16.85	0.13	3.7	0.071	1.36	25.4	18.1	1.83	1240	0.42	2.22	13.5	59.6	960
S727898		5.61	18.05	0.12	3.8	0.060	1.46	28.3	22.7	2.17	965	0.66	2.05	14.2	79.9	900
S727899		5.91	18.15	0.13	4.6	0.077	1.24	26.5	21.3	2.46	1040	0.43	2.37	12.6	80.5	1130
S727900		1.54	15.60	0.07	1.6	0.022	1.30	8.8	8.9	0.52	268	0.09	2.84	3.9	20.1	220
S727901		5.45	19.70	0.12	4.4	0.065	1.51	31.6	24.0	2.13	921	0.67	2.03	14.9	86.1	930
S727902		5.88	21.5	0.15	5.0	0.068	1.95	36.6	27.6	2.08	954	1.10	1.86	17.8	102.0	910
S727903		5.52	19.95	0.14	4.2	0.057	1.88	32.8	27.6	1.83	1050	0.92	1.87	14.5	80.9	930
S727904		6.35	20.1	0.13	4.0	0.054	1.81	31.5	24.9	1.94	1490	0.78	1.62	14.0	85.2	920
S727905		5.57	22.0	0.15	5.0	0.065	1.83	35.2	28.3	1.90	908	2.57	1.90	18.0	89.6	940
S727906		5.26	19.40	0.14	4.4	0.055	1.85	36.1	27.5	1.70	689	1.18	2.04	16.5	61.4	1080
S727907		5.35	20.5	0.15	4.6	0.061	2.03	36.7	31.1	1.65	704	1.26	2.08	16.1	58.1	1060
S727908		4.98	18.60	0.14	4.4	0.059	1.66	33.5	21.6	1.84	695	0.65	2.03	17.6	76.9	940
S727909		4.29	18.50	0.13	4.9	0.048	1.77	33.6	21.1	1.34	787	0.70	2.28	15.3	48.9	1000
S727910		4.78	18.55	0.12	4.4	0.053	1.65	29.7	19.9	1.61	896	0.65	2.14	16.9	65.9	950
S727911		4.33	19.30	0.14	5.1	0.053	1.81	32.0	24.2	1.33	661	0.68	2.25	14.9	43.6	930
S727912		4.35	18.00	0.12	4.4	0.054	1.54	31.4	18.2	1.50	735	0.55	2.22	15.2	58.7	880
S727913		4.49	17.90	0.13	4.3	0.052	1.49	29.7	19.0	1.59	719	0.57	2.12	15.6	65.4	840



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16127868

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727890		13.0	75.6	<0.002	0.01	0.49	19.3	1	1.3	251	0.84	<0.05	8.85	0.507	1.9
S727891		11.3	61.3	<0.002	0.01	0.48	19.4	1	1.2	289	0.89	<0.05	6.87	0.520	1.7
S727892		12.5	57.2	<0.002	<0.01	0.31	16.3	1	1.4	284	1.11	<0.05	6.88	0.626	2.0
S727893		12.3	64.4	<0.002	0.01	0.44	20.0	1	1.5	247	1.08	<0.05	7.78	0.651	1.8
S727894		10.8	62.7	<0.002	0.01	0.50	27.4	1	1.3	256	0.78	0.06	7.15	0.622	1.7
S727895		9.9	55.9	<0.002	0.01	0.63	26.8	1	1.3	302	0.92	<0.05	5.92	0.676	1.6
S727896		12.6	67.7	<0.002	0.01	0.46	18.6	1	1.5	252	1.03	<0.05	7.85	0.623	1.9
S727897		11.2	45.8	<0.002	<0.01	0.83	29.7	1	1.3	307	0.86	<0.05	5.68	0.679	1.2
S727898		11.5	57.9	<0.002	0.01	0.76	25.8	2	1.4	251	0.93	<0.05	6.78	0.660	1.7
S727899		9.1	45.9	<0.002	<0.01	1.10	35.3	1	1.3	284	0.82	<0.05	4.97	0.725	1.5
S727900		7.7	53.4	<0.002	<0.01	0.10	7.0	1	0.6	400	0.33	<0.05	1.28	0.185	0.5
S727901		12.1	61.4	<0.002	0.01	0.83	29.4	1	1.5	277	0.99	<0.05	7.72	0.613	1.7
S727902		16.5	88.8	<0.002	0.01	0.62	22.6	1	1.8	209	1.17	<0.05	10.45	0.634	2.2
S727903		14.4	79.1	<0.002	0.01	0.47	18.7	1	1.5	232	0.94	<0.05	9.55	0.557	2.1
S727904		12.9	71.8	<0.002	0.01	0.66	24.5	1	1.5	203	0.97	0.05	8.09	0.577	1.6
S727905		14.2	80.6	<0.002	0.01	0.55	21.8	2	1.7	230	1.15	<0.05	9.50	0.607	2.0
S727906		13.9	77.3	<0.002	0.01	0.40	17.8	1	1.6	258	1.07	<0.05	9.65	0.628	2.5
S727907		16.0	89.1	<0.002	0.01	0.41	17.3	2	1.5	255	1.03	<0.05	10.25	0.594	3.3
S727908		12.8	67.0	<0.002	0.01	0.47	19.8	1	1.6	235	1.13	<0.05	8.19	0.661	1.9
S727909		13.7	66.8	<0.002	<0.01	0.38	16.4	2	1.5	299	1.01	<0.05	8.66	0.581	1.9
S727910		11.3	60.1	<0.002	<0.01	0.43	19.0	1	1.5	263	1.04	<0.05	7.24	0.611	1.6
S727911		14.5	73.8	<0.002	0.01	0.34	15.9	1	1.4	288	0.99	<0.05	8.58	0.545	2.2
S727912		11.5	55.2	<0.002	<0.01	0.40	18.2	1	1.4	274	0.99	<0.05	7.06	0.594	1.7
S727913		11.0	55.8	<0.002	<0.01	0.42	18.6	1	1.4	263	1.07	<0.05	7.29	0.610	1.6



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CERTIFICATE OF ANALYSIS VO16127868

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S727890		158	0.7	18.7	115	123.0
S727891		138	0.6	18.3	91	140.5
S727892		117	0.5	20.1	73	181.5
S727893		143	0.7	21.1	84	163.0
S727894		191	0.6	20.8	106	121.5
S727895		147	1.1	25.7	128	134.5
S727896		136	0.7	19.1	89	173.0
S727897		180	1.0	22.0	86	132.5
S727898		169	0.9	22.1	95	137.5
S727899		209	0.9	24.8	91	144.0
S727900		40	0.2	9.0	20	56.0
S727901		167	0.9	23.8	87	148.0
S727902		151	1.1	22.8	105	175.5
S727903		141	0.8	19.0	102	150.0
S727904		163	0.9	20.2	105	148.5
S727905		146	1.0	22.5	101	180.5
S727906		135	0.7	19.7	104	161.5
S727907		139	0.6	19.8	120	167.0
S727908		142	0.9	20.5	88	152.5
S727909		115	0.7	20.0	76	176.0
S727910		121	0.9	22.5	85	156.0
S727911		117	0.6	17.9	86	180.5
S727912		124	0.7	19.6	70	157.0
S727913		129	0.7	19.9	73	157.0



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CERTIFICATE OF ANALYSIS VO16127868

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16133508

Project: QK-2016-FS-003

This report is for 116 Rock samples submitted to our lab in Val d'Or, QC, Canada on 11-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
LOG-23	Pulp Login - Rcvd with Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

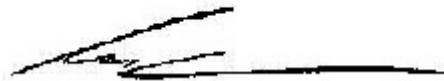
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GR22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132297		1.85														
P132298		1.72														
P132299		1.69														
P132300		0.10														
P132301		1.26														
P132302		1.28														
P132304		1.33														
P132305		2.04														
P132306		2.08														
P132307		2.15														
P132308		2.25														
P132309		1.35														
P132310		1.69														
P132976		1.47	0.003		<1	6.39	<50	710	<10	<20	2.12	<10	20	30	40	5.47
P132977		1.83	0.003		<1	5.53	60	2630	<10	20	4.50	<10	40	400	300	4.21
P132978		0.98	0.025		<1	8.28	<50	390	<10	<20	0.72	<10	40	30	20	10.95
P132979		1.68	<0.001		1	0.65	<50	<50	<10	<20	0.24	<10	<10	30	<10	1.07
P132980		1.20	0.001		1	0.86	<50	1460	<10	<20	<0.05	<10	<10	10	<10	0.79
P132981		1.39	0.039		1	6.72	<50	160	<10	<20	4.57	<10	30	40	110	8.85
P132982		0.91	0.010		<1	6.25	70	670	<10	<20	7.79	<10	50	60	80	13.80
P132983		1.74	0.001		<1	5.61	<50	60	<10	<20	6.70	<10	50	320	90	8.54
P132984		1.14	<0.001		<1	6.38	<50	280	<10	<20	6.51	<10	60	1990	120	5.13
P132985		1.43	0.021		<1	4.28	<50	150	<10	<20	10.55	<10	30	510	50	5.51
P132986		1.43	0.004		1	0.56	<50	<50	<10	<20	0.46	<10	<10	50	420	0.62
P132987		1.30	<0.001		1	5.60	<50	60	<10	<20	5.97	<10	40	40	190	5.90
P132988		1.55	<0.001		<1	6.58	<50	150	<10	<20	5.44	<10	40	1750	40	7.62
P132989		1.45	0.001		<1	6.73	<50	1480	<10	<20	5.91	<10	110	2180	190	6.74
P132990		1.02	0.001		1	1.66	<50	200	<10	<20	0.06	<10	<10	30	50	3.79
P132991		0.20	<0.001		<1	2.15	<50	330	<10	<20	1.47	<10	10	40	10	1.27
P132992		1.31	0.007		<1	1.83	270	60	<10	<20	14.30	<10	10	10	30	7.09
P132993		1.67	0.055		2	0.42	<50	<50	<10	<20	0.24	<10	<10	50	420	0.90
P137293		0.68	>10.0	46.8	6	0.58	90	70	<10	40	0.06	10	<10	90	40	1.36
P137294		0.99	>10.0	20.8	34	0.55	140	60	<10	70	<0.05	<10	<10	60	30	1.75
P137295		0.96	0.012		1	1.12	<50	60	<10	<20	0.11	<10	10	140	20	2.50
P137296		1.24	>10.0	58.1	5	0.89	<50	<50	<10	<20	<0.05	<10	10	40	50	0.93
P137297		1.36	0.008		1	4.77	<50	520	<10	<20	0.43	<10	20	80	320	8.96
P137298		0.99	0.083		1	1.32	210	300	<10	<20	0.24	<10	30	50	440	16.40
P137299		1.96	0.008		<1	3.45	610	50	<10	<20	4.61	<10	60	990	90	6.58
P137300		0.06	4.51		5	2.39	<50	260	<10	<20	4.67	<10	10	30	60	2.39
P137301		1.51	0.440		25	0.16	910	<50	<10	<20	0.23	10	<10	50	5350	1.82



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
P132297																
P132298																
P132299																
P132300																
P132301																
P132302																
P132304																
P132305																
P132306																
P132307																
P132308																
P132309																
P132310																
P132976		<50	3.1	<50	0.99	490	<10	1.03	10	590	<20	2.18	<50	20	130	<50
P132977		<50	1.5	350	2.24	130	10	2.56	120	4220	30	0.87	<50	80	90	120
P132978		<50	0.8	<50	2.60	950	<10	2.84	10	550	<20	3.76	<50	30	50	<50
P132979		<50	0.1	<50	0.19	200	<10	0.20	<10	60	<20	<0.05	<50	<10	10	<50
P132980		<50	3.3	<50	<0.05	20	20	0.98	<10	<50	30	0.66	<50	<10	20	<50
P132981		<50	0.6	<50	2.58	1180	<10	2.99	20	740	<20	1.44	<50	30	390	<50
P132982		<50	0.5	<50	2.60	2110	<10	0.88	30	560	<20	5.66	<50	30	190	<50
P132983		<50	0.1	<50	4.80	1270	<10	1.71	100	520	<20	1.83	<50	40	220	<50
P132984		<50	1.5	<50	3.50	990	<10	0.42	370	130	<20	0.29	<50	40	100	<50
P132985		<50	0.6	<50	3.93	1430	<10	1.29	220	620	<20	<0.05	<50	20	210	<50
P132986		<50	0.2	<50	<0.05	70	<10	0.28	<10	60	<20	<0.05	<50	<10	10	<50
P132987		<50	0.2	<50	3.15	1050	<10	2.97	110	430	<20	0.82	<50	30	170	<50
P132988		<50	0.3	<50	3.83	970	<10	2.01	250	150	<20	0.83	<50	40	160	<50
P132989		<50	1.1	<50	3.29	890	<10	1.22	1150	380	<20	1.39	<50	40	150	<50
P132990		<50	0.6	<50	0.09	50	<10	1.95	10	90	110	2.37	<50	<10	40	<50
P132991		<50	1.0	<50	0.35	240	<10	2.52	20	180	20	<0.05	<50	<10	280	<50
P132992		<50	0.5	<50	5.24	2110	<10	0.26	40	90	30	3.09	<50	<10	130	<50
P132993		<50	0.2	<50	<0.05	90	<10	<0.05	<10	490	<20	<0.05	<50	<10	10	<50
P137293		<50	0.2	<50	<0.05	70	10	0.26	<10	50	110	0.65	<50	<10	10	<50
P137294		<50	0.2	<50	<0.05	60	10	0.30	<10	<50	520	0.98	<50	<10	10	<50
P137295		<50	0.1	<50	0.63	230	<10	0.12	20	180	<20	<0.05	<50	<10	20	<50
P137296		<50	0.2	<50	<0.05	50	<10	0.79	<10	80	30	0.32	<50	<10	20	<50
P137297		<50	1.0	<50	1.38	640	10	0.50	240	340	<20	2.21	<50	10	30	<50
P137298		<50	0.1	<50	0.89	640	10	<0.05	100	190	<20	9.15	<50	<10	30	<50
P137299		<50	1.5	<50	7.50	1080	<10	0.07	660	230	<20	0.14	50	20	110	<50
P137300		<50	1.6	<50	0.65	580	10	0.60	10	440	20	0.73	<50	10	220	<50
P137301		<50	0.1	<50	0.05	150	<10	<0.05	10	<50	<20	1.16	2730	<10	10	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Ti	Ti	U	V	W	Zn	Al2O3	As	CaO	Co	Cr	Cu	Fe	Fe2O3
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
		0.05	50	50	10	50	20	0.01	0.01	0.05	0.002	0.01	0.002	0.05	0.05
P132297								9.33	<0.01	8.67	0.009	0.20	0.009	8.04	11.50
P132298								14.95	<0.01	4.90	0.005	0.02	0.007	9.49	13.55
P132299								9.30	<0.01	8.88	0.009	0.20	0.006	8.30	11.85
P132300								12.15	<0.01	2.45	0.003	0.01	0.002	1.55	2.21
P132301								6.46	<0.01	5.52	0.010	0.27	0.003	7.86	11.25
P132302								13.40	<0.01	7.10	0.005	0.02	0.006	7.84	11.20
P132304								13.75	0.01	2.52	0.004	0.01	0.018	9.39	13.40
P132305								4.93	<0.01	4.56	0.015	0.31	0.028	9.23	13.20
P132306								3.17	<0.01	1.81	0.019	0.46	0.028	11.55	16.50
P132307								3.59	<0.01	3.18	0.018	0.41	0.099	10.10	14.45
P132308								3.87	<0.01	2.74	0.018	0.40	0.026	10.80	15.45
P132309								6.10	<0.01	6.40	0.012	0.30	0.136	9.31	13.30
P132310								4.91	<0.01	4.28	0.012	0.37	0.007	8.48	12.10
P132976		0.62	<50	<50	190	<50	70								
P132977		5.74	<50	<50	650	<50	130								
P132978		0.87	<50	<50	280	<50	140								
P132979		<0.05	<50	<50	10	<50	20								
P132980		<0.05	<50	<50	10	<50	<20								
P132981		0.62	<50	<50	290	<50	70								
P132982		0.67	<50	<50	310	<50	90								
P132983		0.54	<50	<50	290	<50	40								
P132984		0.29	<50	<50	280	<50	100								
P132985		0.44	<50	<50	150	<50	90								
P132986		<0.05	<50	<50	10	<50	<20								
P132987		0.55	<50	<50	270	<50	120								
P132988		0.34	<50	<50	290	<50	100								
P132989		0.30	<50	<50	270	<50	180								
P132990		0.05	<50	<50	10	<50	30								
P132991		0.15	<50	<50	40	<50	20								
P132992		0.07	<50	<50	40	<50	50								
P132993		<0.05	<50	<50	10	<50	<20								
P137293		<0.05	<50	<50	<10	<130	820								
P137294		<0.05	<50	<50	<10	<50	50								
P137295		0.08	<50	<50	50	<50	30								
P137296		<0.05	<50	<50	<10	<50	40								
P137297		0.22	<50	<50	130	<50	140								
P137298		0.08	<50	<50	90	<50	120								
P137299		0.39	<50	<50	160	<50	50								
P137300		0.21	<50	<50	80	<50	50								
P137301		<0.05	<50	<50	<10	<50	520								



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		MgO	MnO	Ni	Pb	S	SiO2	TiO2	Zn
		%	%	%	%	%	%	%	%
		0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
P132297		17.15	0.20	0.060	<0.01	1.42	46.0	0.59	0.007
P132298		7.80	0.23	0.008	<0.01	1.93	47.3	0.95	0.014
P132299		18.95	0.17	0.078	<0.01	0.11	46.6	0.55	0.009
P132300		0.89	0.04	0.003	<0.01	0.02	77.0	0.28	0.002
P132301		24.9	0.16	0.117	<0.01	0.05	42.1	0.38	0.007
P132302		6.38	0.16	0.005	<0.01	1.52	52.2	0.78	0.009
P132304		5.41	0.12	0.005	<0.01	4.36	51.1	1.00	0.007
P132305		27.9	0.15	0.243	<0.01	0.83	39.8	0.29	0.007
P132306		32.1	0.15	0.159	<0.01	1.48	37.2	0.19	0.007
P132307		30.5	0.16	0.396	<0.01	0.91	37.6	0.21	0.008
P132308		30.2	0.17	0.189	<0.01	1.59	38.5	0.24	0.008
P132309		24.5	0.15	0.112	<0.01	1.35	41.9	0.39	0.010
P132310		30.2	0.17	0.152	<0.01	0.10	40.4	0.27	0.010
P132976									
P132977									
P132978									
P132979									
P132980									
P132981									
P132982									
P132983									
P132984									
P132985									
P132986									
P132987									
P132988									
P132989									
P132990									
P132991									
P132992									
P132993									
P137293									
P137294									
P137295									
P137296									
P137297									
P137298									
P137299									
P137300									
P137301									



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137302		1.50	0.340		34	1.07	560	80	<10	<20	0.65	10	10	30	5780	2.27
P137303		1.20	0.004		1	6.19	<50	130	<10	<20	5.63	<10	30	40	40	8.18
P137304		1.87	0.075		2	1.05	200	<50	<10	<20	0.23	<10	30	60	380	17.30
P137305		1.18	0.002		<1	6.44	<50	170	<10	<20	4.05	<10	40	20	190	7.83
P137306		0.88	0.174		<1	<0.05	<50	<50	<10	<20	<0.05	<10	60	40	110	2.06
P137307		1.89	0.002		<1	6.40	<50	300	<10	<20	6.91	<10	40	50	100	8.23
P137308		1.15	<0.001		<1	1.12	<50	2370	<10	<20	<0.05	<10	<10	30	<10	0.64
P137309		0.79	<0.001		<1	4.03	<50	<50	<10	<20	13.20	<10	30	20	240	4.35
P137310		1.69	>10.0	11.85	1	0.74	6430	110	<10	<20	0.06	20	10	50	50	1.80
P137311		1.57	0.006		<1	8.25	90	570	<10	<20	0.36	<10	30	20	20	13.55
P137312		0.64	0.008		<1	4.03	50	250	<10	20	1.39	<10	10	10	30	5.64
P137313		0.64	<0.001		<1	0.96	<50	90	<10	<20	2.47	<10	10	40	180	1.52
P137314		1.38	0.044		<1	4.36	280	90	<10	<20	0.05	<10	20	60	150	9.38
P137315		0.93	0.031		<1	5.95	230	200	<10	<20	0.36	<10	40	360	340	13.05
P137316		1.30	0.019		<1	5.01	60	560	<10	<20	0.55	<10	20	140	200	9.42
P137317		1.57	0.004		<1	4.71	<50	70	<10	<20	1.21	<10	40	20	20	9.70
P137318		0.98	0.017		<1	4.27	50	110	<10	<20	9.16	<10	70	990	230	6.97
P137319		1.59	<0.001		<1	4.22	70	170	<10	<20	5.47	<10	10	20	70	8.75
P137613		0.88	0.001		<1	4.69	<50	150	<10	<20	7.24	<10	80	1260	80	8.56
P137614		1.55	<0.001		<1	1.87	<50	140	<10	<20	3.25	<10	10	30	70	1.87
P137615		1.49	<0.001		<1	3.70	<50	310	<10	<20	4.44	<10	10	10	10	4.61
P137616		0.76	<0.001		<1	2.89	<50	340	<10	<20	3.56	<10	10	30	10	4.36
P137617		1.00	<0.001		<1	2.53	<50	2240	<10	<20	14.95	<10	10	110	10	5.15
P137618		0.80	<0.001		<1	4.70	<50	850	<10	<20	13.70	<10	20	10	10	7.42
P137619		1.01	0.018		<1	3.97	<50	300	<10	<20	5.48	<10	30	20	210	7.25
P137620		0.05	2.44		4	2.08	<50	320	<10	<20	4.25	<10	10	30	70	3.01
P137621		0.74	0.013		<1	4.35	<50	140	<10	<20	15.35	<10	20	20	80	8.24
P137622		2.05	0.004		<1	5.77	70	160	<10	<20	5.27	<10	30	160	60	5.96
P137623		0.97	0.004		<1	3.11	770	180	<10	<20	7.32	<10	60	1170	40	6.50
P137624		1.60	0.001		<1	6.16	50	1100	<10	<20	3.27	<10	20	90	200	4.35
P137625		1.55	0.007		<1	3.29	<50	490	<10	<20	1.54	<10	10	40	10	3.88
P137626		1.68	0.001		9	0.27	<50	<50	<10	20	0.22	<10	<10	60	1650	0.79
P137627		0.97	0.002		<1	5.07	<50	260	<10	<20	5.99	<10	40	440	70	7.70
P137628		1.33	<0.001		<1	5.69	<50	120	<10	<20	8.97	<10	60	470	40	8.27
P137629		1.44	0.001		<1	5.34	70	120	<10	<20	9.17	<10	40	240	120	6.41
P137630		1.34	0.019		<1	4.40	<50	<50	10	<20	10.15	<10	<10	20	10	4.00
P137631		0.65	<0.001		<1	<0.05	<50	<50	<10	<20	0.07	<10	<10	40	<10	0.42
P137632		0.38	<0.001		<1	3.59	<50	650	<10	<20	2.73	<10	10	30	20	3.47
P137633		0.66	<0.001		<1	<0.05	<50	<50	<10	<20	0.07	<10	<10	60	<10	0.44
P137634		1.22	0.001		<1	3.59	150	360	<10	<20	12.60	<10	50	970	20	5.48



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137302		<50	0.5	<50	0.23	290	<10	<0.05	20	70	<20	1.50	1630	<10	10
P137303		<50	0.4	<50	1.72	1180	<10	1.72	20	1000	<20	2.32	<50	20	260
P137304		<50	0.1	<50	0.45	350	<10	<0.05	180	930	20	>10.0	<50	<10	<10
P137305		<50	0.3	<50	2.26	1090	<10	3.41	20	400	<20	0.83	<50	40	180
P137306		<50	<0.1	<50	<0.05	50	<10	<0.05	10	<50	<20	1.67	<50	<10	<10
P137307		<50	0.4	<50	2.46	1500	<10	2.58	30	490	<20	0.31	<50	20	180
P137308		<50	4.3	<50	<0.05	20	10	0.24	10	50	<20	0.32	<50	<10	20
P137309		<50	<0.1	<50	0.71	1530	10	1.83	10	360	40	0.65	<50	10	130
P137310		<50	0.9	<50	0.13	50	<10	<0.05	10	370	310	1.15	100	<10	10
P137311		<50	1.4	<50	2.02	1260	<10	0.19	10	1050	<20	4.01	<50	20	50
P137312		<50	0.7	<50	0.81	500	<10	3.81	<10	820	<20	2.53	<50	<10	220
P137313		<50	0.4	<50	0.29	410	<10	0.30	10	230	<20	<0.05	<50	<10	60
P137314		<50	0.8	<50	1.32	500	10	0.08	140	340	40	3.89	<50	10	20
P137315		<50	0.8	<50	2.27	780	80	1.35	190	630	30	3.03	<50	20	70
P137316		<50	1.4	<50	1.85	740	<10	0.67	140	650	<20	2.58	<50	20	40
P137317		<50	<0.1	<50	2.14	990	<10	2.52	10	380	<20	4.93	<50	30	80
P137318		<50	0.6	<50	5.27	1300	<10	2.28	610	390	<20	1.61	<50	30	390
P137319		<50	0.2	<50	2.06	2550	<10	0.44	10	560	30	5.07	<50	10	150
P137613		<50	0.5	<50	9.14	1170	<10	0.58	750	300	<20	0.05	<50	30	100
P137614		<50	0.7	<50	0.42	300	10	3.02	<10	550	<20	0.36	<50	<10	300
P137615		<50	0.6	<50	0.72	1130	<10	2.82	<10	1040	<20	0.06	<50	<10	520
P137616		<50	0.9	<50	0.60	870	<10	1.91	10	590	20	<0.05	<50	<10	290
P137617		<50	1.2	<50	6.96	730	<10	0.14	50	580	<20	<0.05	<50	10	150
P137618		<50	1.0	<50	1.88	2240	<10	3.05	<10	1460	20	0.08	<50	10	480
P137619		<50	1.1	<50	1.30	1350	<10	0.75	210	630	20	3.05	<50	30	100
P137620		<50	2.0	<50	0.66	720	10	0.90	10	610	30	0.83	<50	<10	250
P137621		<50	1.0	<50	3.38	2110	<10	0.23	10	390	<20	0.68	<50	20	180
P137622		<50	1.6	<50	2.21	1150	<10	1.64	40	210	<20	0.37	<50	30	180
P137623		<50	1.1	<50	8.40	1300	<10	0.09	650	240	<20	0.15	<50	20	300
P137624		<50	1.1	<50	2.19	550	<10	4.56	100	1720	<20	0.89	<50	10	210
P137625		<50	1.7	<50	0.73	670	<10	2.26	20	770	20	<0.05	<50	<10	180
P137626		<50	0.1	<50	<0.05	90	<10	<0.05	10	<50	1420	0.23	<50	<10	10
P137627		<50	1.1	<50	5.03	1340	<10	0.50	110	540	<20	<0.05	<50	40	240
P137628		<50	0.4	<50	7.82	1230	<10	1.14	190	180	<20	<0.05	<50	50	250
P137629		<50	0.8	<50	5.30	1020	<10	0.92	100	280	<20	<0.05	<50	50	540
P137630		<50	<0.1	<50	0.16	3880	<10	<0.05	<10	260	<20	<0.05	<50	10	410
P137631		<50	<0.1	<50	<0.05	50	<10	<0.05	<10	<50	<20	<0.05	<50	<10	10
P137632		<50	1.8	<50	0.44	840	<10	2.16	10	420	20	0.08	<50	<10	300
P137633		<50	<0.1	<50	<0.05	50	<10	<0.05	10	<50	<20	<0.05	<50	<10	10
P137634		<50	1.1	<50	7.13	1420	<10	<0.05	670	210	<20	0.06	<50	20	360



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Ti	Ti	U	V	W	Zn	Al2O3	As	CaO	Co	Cr	Cu	Fe	Fe2O3
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
		0.05	50	50	10	50	20	0.01	0.01	0.05	0.002	0.01	0.002	0.05	0.05
P137302		0.05	<50	<50	20	<50	650								
P137303		1.13	<50	<50	280	<50	340								
P137304		0.10	<50	<50	80	<50	370								
P137305		0.44	<50	<50	360	<50	40								
P137306		<0.05	<50	<50	<10	<50	<20								
P137307		0.59	<50	<50	270	<50	80								
P137308		<0.05	<50	<50	10	<50	60								
P137309		0.30	<50	<50	100	<50	60								
P137310		0.33	<50	<50	80	<50	3790								
P137311		0.27	<50	<50	230	<50	330								
P137312		0.39	<50	<50	110	<50	60								
P137313		0.10	<50	<50	50	<50	20								
P137314		0.06	<50	<50	100	<50	300								
P137315		0.42	<50	<50	220	<50	280								
P137316		0.44	<50	<50	170	<50	420								
P137317		0.37	<50	<50	460	<50	50								
P137318		0.42	<50	<50	180	<50	40								
P137319		0.22	<50	<50	110	<50	70								
P137613		0.48	<50	<50	220	<50	80								
P137614		0.30	<50	<50	80	<50	20								
P137615		0.31	<50	<50	40	<50	100								
P137616		0.32	<50	<50	70	<50	60								
P137617		0.15	<50	<50	30	<50	40								
P137618		0.90	<50	<50	80	<50	90								
P137619		0.50	<50	<50	310	<50	230								
P137620		0.26	<50	<50	110	<50	90								
P137621		0.24	<50	<50	120	<50	270								
P137622		0.21	<50	<50	210	<50	60								
P137623		0.20	<50	<50	130	<50	60								
P137624		0.62	<50	<50	100	<50	30								
P137625		0.31	<50	<50	60	<50	80								
P137626		<0.05	<50	<50	10	<50	1110								
P137627		0.31	<50	<50	230	<50	80								
P137628		0.82	<50	<50	360	<50	100								
P137629		0.60	<50	<50	280	<50	70								
P137630		0.16	<50	<50	160	<50	60								
P137631		<0.05	<50	<50	<10	<50	<20								
P137632		0.25	<50	<50	50	<50	70								
P137633		<0.05	<50	<50	<10	<50	<20								
P137634		0.26	<50	<50	150	<50	40								



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		MgO	MnO	Ni	Pb	S	SiO2	TiO2	Zn
		%	%	%	%	%	%	%	%
		0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
P137302 P137303 P137304 P137305 P137306									
P137307 P137308 P137309 P137310 P137311									
P137312 P137313 P137314 P137315 P137316									
P137317 P137318 P137319 P137613 P137614									
P137615 P137616 P137617 P137618 P137619									
P137620 P137621 P137622 P137623 P137624									
P137625 P137626 P137627 P137628 P137629									
P137630 P137631 P137632 P137633 P137634									



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137635		1.04	<0.001		<1	5.02	<50	180	<10	<20	5.44	<10	20	30	140	4.59
P137636		1.26	0.004		<1	4.03	760	240	<10	<20	5.23	<10	70	1170	30	6.66
P137637		0.89	0.001		<1	5.86	<50	70	<10	<20	5.53	<10	40	70	20	10.65
P137638		0.63	<0.001		<1	3.06	<50	190	<10	<20	0.68	<10	10	20	10	2.48
P137639		1.36	0.909		<1	1.15	260	<50	<10	<20	18.95	<10	20	310	10	7.84
P137640		0.07	<0.001		<1	2.24	<50	340	<10	<20	1.51	<10	10	40	10	1.28
P137641		0.52	0.007		<1	6.08	<50	180	<10	<20	3.56	<10	50	50	80	7.40
P137642		1.15	0.006		<1	0.05	<50	<50	<10	<20	0.17	<10	20	40	460	1.55
P137643		1.42	<0.001		<1	6.11	90	200	<10	<20	7.17	<10	30	130	<10	7.05
P137644		0.63	0.001		<1	0.99	<50	60	<10	<20	0.54	<10	<10	50	<10	1.01
P137645		1.25	0.033		<1	0.54	50	<50	<10	<20	0.43	<10	100	50	230	3.40
P137646		0.78	0.001		<1	2.93	360	190	<10	<20	12.80	<10	50	830	10	3.89
P137647		1.35	<0.001		<1	3.77	270	90	<10	<20	5.60	<10	80	1140	50	6.97
P137648		1.48	0.004		<1	3.81	<50	<50	<10	<20	8.77	<10	60	780	110	6.02
P137649		0.80	0.004		2	0.25	<50	<50	<10	<20	0.80	<10	10	150	4920	1.40
P137650		1.14	<0.001		<1	1.30	<50	70	<10	<20	6.61	<10	<10	50	<10	1.37
P137651		0.92	<0.001		<1	5.67	<50	150	<10	<20	6.21	<10	50	60	50	8.81
P137652		1.32	0.001		<1	4.59	550	140	<10	<20	3.59	<10	90	1350	20	7.74
P137653		1.01	0.009		<1	2.93	90	280	<10	<20	6.18	<10	20	140	1280	9.71
P137654		1.26	0.001		<1	3.96	800	230	<10	<20	5.53	<10	70	1150	40	7.46
P137655		1.52	0.116		5	0.75	90	110	<10	<20	0.21	<10	10	40	10100	1.86
P137656		1.42	0.001		<1	6.12	<50	600	<10	<20	3.28	<10	30	90	30	5.90
P137657		0.99	0.001		<1	6.72	<50	260	<10	<20	6.46	<10	30	140	70	5.44
P137658		1.12	0.184		<1	4.06	<50	60	<10	<20	2.05	<10	80	10	520	7.93
P137659		2.17	9.65		8	5.40	47800	100	<10	<20	0.68	<10	1240	20	11800	17.50
P137660		2.52	2.18		<1	5.51	>100000	80	<10	20	0.49	<10	2790	20	660	23.5
P137661		2.48	2.45		<1	4.47	>100000	70	<10	20	0.41	<10	2990	20	580	23.9
P137662		1.57	0.076		<1	7.30	490	180	<10	<20	0.83	<10	290	40	3010	20.3
P137663		2.62	6.00		1	6.10	>100000	100	<10	50	0.87	<10	4050	10	2020	22.8
P137664		1.89	>10.0	21.3	2	1.24	>100000	<50	<10	90	0.05	<10	4000	20	410	22.7
P137665		1.37	>10.0	18.65	4	2.39	>100000	<50	<10	80	0.35	<10	3840	30	230	27.5
P137666		1.78	2.56		9	6.36	280	220	<10	<20	1.32	<10	110	40	9250	16.85
P137667		1.59	0.240		<1	6.45	120	<50	<10	<20	0.86	<10	110	10	770	21.2
P137668		1.08	0.110		<1	7.44	100	<50	<10	<20	0.38	<10	100	120	140	22.4
P137669		1.08	0.013		<1	4.60	70	60	<10	<20	1.17	<10	40	20	3600	14.45
P137670		3.15	2.03		<1	7.28	21600	220	<10	<20	1.60	<10	1390	60	1290	16.95



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137635		<50	0.5	<50	1.33	660	<10	3.05	20	520	<20	0.90	<50	10	230
P137636		<50	1.7	<50	6.47	1070	<10	0.10	680	230	<20	<0.05	<50	20	160
P137637		<50	0.1	<50	3.14	1280	<10	0.29	40	810	<20	4.35	<50	20	240
P137638		<50	1.0	<50	1.24	580	<10	2.50	10	180	<20	0.47	<50	<10	80
P137639		<50	0.1	<50	8.48	2100	<10	0.05	240	110	20	0.11	<50	10	510
P137640		<50	1.1	<50	0.35	220	<10	2.56	20	160	<20	<0.05	<50	<10	290
P137641		<50	0.6	<50	3.29	880	<10	2.42	30	700	<20	2.37	<50	20	90
P137642		<50	<0.1	<50	<0.05	60	<10	<0.05	10	<50	<20	0.86	<50	<10	10
P137643		<50	1.0	<50	3.90	1120	<10	0.65	80	830	<20	<0.05	<50	20	320
P137644		<50	0.2	<50	0.16	130	<10	0.42	10	<50	20	<0.05	<50	<10	20
P137645		<50	<0.1	<50	0.23	170	<10	0.10	40	<50	<20	1.91	<50	<10	10
P137646		<50	1.2	<50	5.65	1960	<10	0.05	420	250	<20	0.09	<50	40	370
P137647		<50	1.2	<50	9.02	1150	<10	0.10	920	150	<20	<0.05	<50	20	160
P137648		<50	0.1	<50	7.48	1190	<10	1.26	550	510	<20	0.21	<50	20	330
P137649		<50	<0.1	<50	0.67	140	<10	<0.05	70	<50	<20	0.48	<50	<10	30
P137650		<50	0.1	<50	0.35	490	<10	0.47	10	280	<20	<0.05	<50	<10	70
P137651		<50	0.3	<50	2.99	1450	<10	1.51	40	410	<20	<0.05	<50	10	380
P137652		<50	1.7	<50	8.80	1060	<10	0.13	750	250	20	<0.05	<50	20	110
P137653		<50	1.6	<50	4.80	2570	<10	0.86	160	1290	<20	4.49	<50	10	150
P137654		<50	1.5	<50	7.84	1230	<10	0.07	750	260	<20	0.07	<50	20	170
P137655		<50	0.4	<50	0.10	100	<10	0.09	30	<50	<20	1.20	<50	<10	20
P137656		<50	0.8	<50	2.22	860	<10	3.40	40	680	<20	0.54	<50	10	220
P137657		<50	0.7	<50	2.47	880	<10	2.53	80	1010	<20	0.05	<50	10	550
P137658		<50	0.1	<50	1.32	540	<10	3.53	40	1510	<20	3.68	<50	10	140
P137659		<50	0.8	<50	1.46	900	<10	0.15	20	570	20	3.80	<50	20	40
P137660		<50	0.4	<50	1.81	770	<10	0.37	20	490	<20	7.50	<50	20	30
P137661		<50	0.3	<50	1.49	650	<10	0.24	30	360	<20	8.75	<50	10	20
P137662		<50	0.9	<50	2.01	900	<10	0.64	20	690	<20	5.77	<50	20	70
P137663		<50	0.6	<50	1.52	720	<10	0.40	20	290	<20	7.12	<50	20	60
P137664		<50	<0.1	<50	0.42	330	<10	0.05	40	170	30	>10.0	90	<10	10
P137665		<50	<0.1	<50	0.89	590	<10	0.09	50	270	30	>10.0	140	10	10
P137666		<50	1.1	<50	2.10	1170	<10	0.12	20	1140	<20	2.69	<50	30	70
P137667		<50	0.1	<50	2.20	1130	<10	0.17	20	1020	<20	3.11	<50	20	20
P137668		<50	<0.1	<50	3.61	1190	<10	<0.05	50	600	<20	3.73	<50	30	<10
P137669		<50	0.3	<50	1.16	750	<10	0.24	<10	3520	20	4.57	<50	10	40
P137670		<50	1.6	<50	1.52	1070	<10	0.97	20	740	20	1.32	<50	20	120



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		Ti	Ti	U	V	W	Zn	Al2O3	As	CaO	Co	Cr	Cu	Fe	Fe2O3
		%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%
		0.05	50	50	10	50	20	0.01	0.01	0.05	0.002	0.01	0.002	0.05	0.05
P137635		0.68	<50	<50	250	<50	40								
P137636		0.21	<50	<50	170	<50	50								
P137637		0.67	<50	<50	260	<50	40								
P137638		0.10	<50	<50	50	<50	50								
P137639		0.11	<50	<50	60	<50	60								
P137640		0.13	<50	<50	40	<50	20								
P137641		0.63	<50	<50	300	<50	70								
P137642		<0.05	<50	<50	<10	<50	20								
P137643		0.48	<50	<50	180	<50	80								
P137644		0.05	<50	<50	10	<50	<20								
P137645		<0.05	<50	<50	20	<50	<20								
P137646		0.22	<50	<50	120	<50	20								
P137647		0.34	<50	<50	170	<50	60								
P137648		0.31	<50	<50	140	<50	50								
P137649		<0.05	<50	<50	10	<50	<20								
P137650		0.09	<50	<50	20	<50	<20								
P137651		0.71	<50	<50	340	<50	110								
P137652		0.39	<50	<50	190	<50	60								
P137653		0.26	<50	<50	110	<50	30								
P137654		0.31	<50	<50	170	<50	50								
P137655		0.06	<50	<50	20	<50	100								
P137656		0.51	<50	<50	170	<50	60								
P137657		0.55	<50	<50	180	<50	70								
P137658		0.55	<50	<50	230	<50	50								
P137659		0.45	<50	<50	140	<50	180								
P137660		0.41	<50	<50	140	<50	70								
P137661		0.34	<50	<50	120	<50	60								
P137662		0.61	<50	<50	190	<50	60								
P137663		0.36	<50	<50	150	200	50								
P137664		0.11	<50	<50	40	80	20								
P137665		0.19	<50	<50	90	180	40								
P137666		0.88	<50	<50	250	<50	140								
P137667		1.05	<50	<50	270	<50	60								
P137668		0.69	<50	<50	300	<50	90								
P137669		0.23	<50	<50	90	<50	70								
P137670		0.74	<50	<50	220	<50	220								



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: QK-2016-FS-003

CERTIFICATE OF ANALYSIS VO16133508

Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		MgO	MnO	Ni	Pb	S	SiO2	TiO2	Zn
		%	%	%	%	%	%	%	%
		0.01	0.01	0.002	0.01	0.01	0.2	0.01	0.002
P137635 P137636 P137637 P137638 P137639									
P137640 P137641 P137642 P137643 P137644									
P137645 P137646 P137647 P137648 P137649									
P137650 P137651 P137652 P137653 P137654									
P137655 P137656 P137657 P137658 P137659									
P137660 P137661 P137662 P137663 P137664									
P137665 P137666 P137667 P137668 P137669									
P137670									



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CERTIFICATE OF ANALYSIS VO16133508

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21
	WSH-21	WSH-22		
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-GRA22	Au-ICP22	ME-ICP61a	ME-ICP81



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North Vancouver BC V7H 0A7
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CERTIFICATE VO16133514

Project: QK-2016-TS-004

This report is for 130 Soil samples submitted to our lab in Val d'Or, QC, Canada on 11-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
SCR-41	Screen to -180um and save both
DRY-21	High Temperature Drying

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16133514

Sample Description	Method Analyte Units LOR	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S726910		0.80	0.05	7.30	6.0	440	1.53	0.16	3.12	0.15	67.8	24.2	144	0.89	45.3	5.22
S726911		0.89	0.08	7.19	6.9	430	1.07	0.21	2.95	0.17	64.9	26.0	155	1.05	51.5	5.38
S726912		1.16	0.04	7.26	8.6	380	0.99	0.13	2.89	0.15	48.2	26.0	178	0.87	54.4	5.52
S726913		0.84	0.05	7.23	4.9	490	1.51	0.10	2.54	0.08	74.6	18.3	117	1.26	45.9	4.53
S726914		0.82	0.04	7.46	11.5	420	1.24	0.17	2.54	0.09	64.9	25.1	161	1.25	58.0	5.52
S726915		0.96	0.06	7.44	9.3	460	1.32	0.13	2.61	0.14	71.2	22.1	141	1.24	56.6	5.03
S726916		0.88	0.03	7.40	10.6	470	1.35	0.12	2.48	0.08	63.8	18.1	112	1.25	51.6	4.70
S726917		0.85	0.02	7.30	12.1	490	1.47	0.12	2.25	0.12	81.3	19.1	103	1.46	45.8	4.48
S726918		1.21	0.06	7.60	6.0	470	1.28	0.10	3.35	0.13	68.9	20.9	152	1.02	37.8	5.02
S726919		0.94	0.05	7.10	4.5	450	1.22	0.12	3.34	0.13	66.6	18.1	134	0.80	30.4	4.57
S726920		1.10	0.06	7.67	13.1	490	1.41	0.15	2.49	0.12	68.4	25.4	162	1.60	67.9	5.39
S726921		1.22	0.07	7.67	12.4	450	1.18	0.17	2.84	0.16	56.3	28.8	179	1.38	69.4	5.95
S726922		1.09	0.07	7.50	6.9	520	1.48	0.12	2.44	0.18	68.5	23.5	144	1.72	50.5	5.16
S726923		1.05	0.09	7.87	8.8	510	1.27	0.13	2.64	0.20	61.3	27.5	181	1.61	57.5	5.62
S726924		0.76	0.06	7.48	10.6	410	1.07	0.14	2.92	0.18	45.9	28.6	187	1.17	61.8	6.01
S726925		0.94	0.04	7.46	6.8	410	1.13	0.13	3.00	0.11	47.0	26.6	168	1.10	41.7	5.41
S726926		0.93	0.09	7.51	15.9	380	1.15	0.24	3.18	0.13	54.4	28.8	179	1.02	66.4	5.79
S726927		0.96	0.07	7.31	5.2	560	1.49	0.11	2.09	0.19	85.4	18.9	122	1.87	40.1	4.65
S726928		0.86	0.09	7.48	17.0	480	1.38	0.21	2.76	0.20	71.1	27.9	192	1.59	60.9	5.58
S726929		0.79	0.10	7.04	4.8	550	1.62	0.10	1.85	0.27	86.5	19.3	118	2.04	45.0	4.56
S726930		0.06	0.04	8.91	10.2	150	0.87	0.34	0.29	0.05	49.6	7.5	110	6.43	31.7	6.25
S726931		1.02	0.05	6.68	13.7	430	1.22	0.19	2.30	0.07	64.8	22.5	139	1.42	34.9	4.85
S726932		0.73	0.06	6.82	74.5	460	1.35	0.25	2.39	0.12	72.0	38.9	152	1.18	79.9	5.07
S726933		0.95	0.06	6.85	10.3	480	1.34	0.32	2.15	0.19	75.6	20.2	120	1.59	39.9	4.57
S726934		1.19	0.06	7.13	23.8	350	1.05	0.41	3.20	0.17	52.8	28.8	166	0.79	54.1	5.73
S726935		0.99	0.08	7.03	16.3	520	1.45	0.14	2.03	0.14	76.6	19.5	124	1.72	44.4	4.63
S726936		1.02	0.04	6.90	17.8	490	1.40	0.14	2.22	0.13	86.3	21.7	132	1.36	54.8	4.60
S726937		1.10	0.11	6.91	37.6	410	1.26	0.17	2.80	0.17	70.6	34.4	118	1.12	113.5	5.51
S726938		0.95	0.05	7.21	46.1	400	1.16	0.28	2.60	0.15	53.3	37.7	187	1.18	130.5	6.50
S726939		0.91	0.06	7.19	22.0	470	1.43	0.13	2.45	0.10	69.6	30.7	165	1.27	74.4	5.20
S726940		1.21	0.13	7.53	63.3	290	0.95	0.27	3.48	0.19	41.8	44.2	118	0.82	198.0	7.27
S726941		1.05	0.06	7.58	14.5	550	1.60	0.12	2.04	0.06	81.9	26.7	118	2.12	75.7	5.20
S726942		0.97	0.10	7.59	22.9	560	1.74	0.23	2.11	0.19	88.1	27.1	122	2.16	92.8	5.48
S726943		0.78	0.06	7.12	10.4	510	1.51	0.09	2.43	0.12	92.7	18.4	95	1.36	51.4	4.39
S726944		1.27	0.06	7.54	36.7	560	1.64	0.13	2.23	0.14	94.0	20.5	102	1.81	50.1	4.74
S726945		0.80	0.08	7.40	3.8	550	1.98	0.17	2.40	0.12	150.5	21.9	103	1.93	51.6	5.08
S726946		0.86	0.03	7.26	12.5	430	1.37	0.17	2.63	0.12	70.6	27.0	107	1.30	55.2	5.42
S726947		1.21	0.06	7.09	8.6	480	1.37	0.12	2.39	0.11	82.7	20.0	101	1.37	45.3	4.69
S726948		1.15	0.07	7.35	5.9	480	1.46	0.17	2.46	0.15	75.6	27.0	118	1.44	54.3	5.23
S726949		0.91	0.07	7.19	6.2	410	1.28	0.16	3.14	0.08	71.7	24.5	115	0.98	47.1	5.29



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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133514

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726910		18.00	0.11	4.1	0.063	1.18	31.0	14.7	2.00	1000	0.51	2.16	16.9	68.7	1200
S726911		17.60	0.12	3.8	0.056	1.15	28.3	16.1	2.11	1040	0.54	1.99	16.7	72.3	1070
S726912		17.95	0.11	3.4	0.059	0.98	21.8	15.1	2.26	1020	0.58	1.99	13.4	90.5	980
S726913		18.15	0.19	4.6	0.052	1.32	36.8	17.6	1.55	738	0.60	2.25	24.2	53.6	1060
S726914		18.35	0.14	3.7	0.056	1.14	22.9	20.0	2.08	1010	0.59	1.97	14.1	74.8	760
S726915		18.75	0.15	4.6	0.058	1.23	32.0	17.7	1.76	901	0.63	2.18	21.3	64.0	1030
S726916		18.55	0.17	5.5	0.055	1.27	28.1	18.4	1.50	746	0.63	2.25	20.2	46.1	640
S726917		18.45	0.17	5.1	0.057	1.33	29.7	20.4	1.38	690	0.72	2.28	23.0	41.8	500
S726918		18.65	0.22	4.3	0.067	1.22	34.0	15.8	1.91	899	0.49	2.31	21.3	60.2	1260
S726919		17.55	0.20	4.8	0.055	1.18	31.8	13.1	1.70	867	0.38	2.25	16.8	51.0	1090
S726920		19.20	0.18	4.3	0.055	1.34	31.4	21.1	2.02	938	0.64	1.98	14.7	79.2	830
S726921		19.15	0.16	3.4	0.062	1.18	27.8	18.7	2.33	1120	0.73	1.88	13.0	93.4	1020
S726922		19.95	0.18	4.5	0.060	1.49	33.8	22.8	1.83	880	0.78	2.12	17.0	72.9	1000
S726923		19.50	0.20	3.4	0.061	1.30	27.9	22.0	2.33	832	0.86	1.97	15.8	87.0	820
S726924		18.70	0.16	2.9	0.061	1.08	21.1	18.2	2.40	1100	0.60	1.87	14.1	94.3	860
S726925		19.00	0.14	3.4	0.066	1.02	21.3	17.7	2.23	895	0.40	1.96	13.5	79.9	760
S726926		18.70	0.16	3.5	0.064	1.02	25.4	15.9	2.32	1030	0.69	1.97	14.2	86.7	920
S726927		18.95	0.23	4.9	0.059	1.66	43.8	23.8	1.51	690	1.03	2.16	23.4	58.5	1160
S726928		19.00	0.19	4.1	0.060	1.41	34.6	21.5	2.24	1010	0.89	2.01	19.1	95.3	1020
S726929		19.60	0.16	4.7	0.062	1.71	43.5	23.8	1.42	597	1.71	2.11	30.7	63.7	1030
S726930		25.3	0.08	4.8	0.091	0.45	23.2	35.5	0.29	460	2.49	0.13	23.9	43.7	480
S726931		18.10	0.12	4.0	0.065	1.24	29.6	19.3	1.75	945	0.61	1.88	23.7	59.5	1130
S726932		18.65	0.13	4.5	0.057	1.34	34.4	17.1	1.70	883	0.73	2.09	21.1	78.1	1150
S726933		18.95	0.15	4.1	0.063	1.47	38.0	19.8	1.53	808	1.65	2.04	19.9	54.8	1010
S726934		19.35	0.10	3.3	0.071	0.96	22.9	14.2	2.25	1100	0.54	1.90	12.3	80.3	900
S726935		19.25	0.15	4.9	0.058	1.50	38.2	21.3	1.49	743	2.27	2.06	22.8	52.5	940
S726936		19.10	0.16	5.0	0.059	1.45	38.6	18.6	1.55	735	0.66	2.11	23.7	62.1	1070
S726937		19.90	0.13	3.7	0.070	1.17	29.7	17.3	1.87	1050	0.65	1.99	19.5	64.6	1070
S726938		19.50	0.10	3.1	0.071	1.11	24.3	18.8	2.29	984	0.91	1.91	17.7	99.2	870
S726939		20.0	0.13	4.1	0.052	1.37	32.2	19.4	1.89	906	0.67	2.15	23.5	77.5	1020
S726940		20.5	0.11	2.6	0.074	0.75	19.9	14.4	2.43	1240	0.75	1.83	10.7	60.7	890
S726941		21.1	0.13	4.9	0.063	1.60	39.1	24.9	1.66	803	0.78	2.14	28.7	54.9	930
S726942		21.8	0.14	4.9	0.068	1.67	42.8	25.7	1.70	843	0.87	2.19	30.5	57.2	1230
S726943		19.95	0.16	5.7	0.065	1.44	46.3	19.0	1.35	712	0.63	2.38	35.0	38.4	1330
S726944		21.3	0.16	4.6	0.063	1.59	46.1	22.8	1.47	709	0.71	2.31	43.7	44.8	1340
S726945		21.4	0.22	4.9	0.065	1.52	68.6	24.3	1.63	970	0.73	2.28	115.5	46.5	2290
S726946		20.3	0.13	4.1	0.065	1.19	27.4	19.9	1.85	991	0.76	2.14	25.4	47.3	880
S726947		19.90	0.15	4.7	0.058	1.40	39.9	18.7	1.52	762	0.64	2.23	28.6	43.9	1170
S726948		20.8	0.14	4.2	0.072	1.35	36.4	19.7	1.81	902	0.79	2.12	22.2	53.7	1070
S726949		19.95	0.14	4.3	0.075	1.10	35.0	15.0	1.85	947	0.60	2.17	24.9	46.5	1130



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S726910		38.6	<0.002	<0.01	0.68	21.7	1	1.7	344	0.95	0.07	5.58	0.674	0.21	1.5
S726911		38.1	<0.002	0.01	0.61	21.4	1	1.6	317	0.88	0.07	5.69	0.605	0.25	1.4
S726912		24.1	<0.002	0.01	0.74	22.1	1	1.6	297	0.80	<0.05	4.33	0.656	0.18	1.1
S726913		51.3	<0.002	0.01	0.46	18.5	1	1.6	335	1.12	<0.05	7.13	0.602	0.27	1.7
S726914		42.8	<0.002	0.02	0.64	20.9	1	1.6	294	0.86	0.05	5.78	0.610	0.26	1.3
S726915		44.4	<0.002	0.01	0.54	20.0	1	1.6	331	1.11	<0.05	7.26	0.635	0.28	1.8
S726916		50.1	<0.002	0.01	0.49	18.4	1	1.6	336	1.05	<0.05	6.90	0.605	0.27	1.6
S726917		46.8	<0.002	0.02	0.35	16.8	1	1.5	331	1.04	0.05	8.38	0.566	0.28	1.9
S726918		45.1	<0.002	<0.01	0.56	22.1	1	1.7	398	1.10	0.05	6.60	0.689	0.23	1.7
S726919		37.4	<0.002	<0.01	0.53	20.9	1	1.6	397	0.91	<0.05	6.05	0.630	0.23	1.4
S726920		49.1	<0.002	0.01	0.53	20.5	1	1.7	315	0.85	<0.05	7.01	0.557	0.31	1.7
S726921		45.5	<0.002	<0.01	0.64	22.8	1	1.6	314	0.77	0.08	5.80	0.587	0.27	1.5
S726922		56.7	<0.002	<0.01	0.49	19.7	1	1.7	308	1.01	<0.05	7.85	0.572	0.36	2.0
S726923		44.4	<0.002	0.01	0.63	21.2	1	1.7	294	0.89	<0.05	6.33	0.616	0.31	1.8
S726924		31.2	<0.002	<0.01	0.74	22.5	1	1.5	307	0.74	<0.05	4.67	0.605	0.22	1.3
S726925		33.2	<0.002	0.01	0.72	23.9	2	1.5	320	0.78	<0.05	4.57	0.642	0.23	1.3
S726926		31.3	<0.002	<0.01	0.78	23.4	1	1.6	296	1.22	0.05	5.04	0.666	0.23	1.9
S726927		72.7	<0.002	0.01	0.42	16.8	2	1.6	283	1.16	<0.05	10.10	0.580	0.41	2.5
S726928		53.7	<0.002	0.01	0.72	20.4	1	1.7	280	1.06	0.08	8.03	0.605	0.30	1.6
S726929		73.4	<0.002	0.01	0.45	16.6	2	1.6	266	1.20	<0.05	10.00	0.559	0.41	2.4
S726930		61.0	<0.002	0.05	0.73	14.0	4	4.0	47.6	1.66	<0.05	15.75	0.996	0.35	3.0
S726931		51.6	<0.002	0.01	0.59	17.8	2	1.5	275	1.09	<0.05	6.60	0.569	0.31	1.6
S726932		46.8	<0.002	0.01	0.81	18.4	2	1.5	298	1.09	0.11	6.79	0.588	0.30	1.8
S726933		59.3	<0.002	<0.01	0.49	17.8	2	1.5	272	1.04	<0.05	8.17	0.558	0.38	2.3
S726934		30.4	<0.002	0.01	0.90	23.9	2	1.6	291	0.81	0.10	4.37	0.666	0.19	1.3
S726935		57.4	<0.002	0.01	0.44	17.2	1	1.5	273	1.17	<0.05	8.42	0.563	0.34	2.4
S726936		56.3	<0.002	0.01	0.46	16.8	2	1.6	297	1.24	<0.05	7.55	0.603	0.33	2.2
S726937		39.4	<0.002	0.01	0.82	20.7	2	1.5	297	0.99	0.07	5.59	0.642	0.28	1.4
S726938		39.4	<0.002	0.01	0.93	21.1	2	1.4	263	0.82	0.20	4.73	0.611	0.28	1.4
S726939		52.8	<0.002	0.01	0.65	18.2	2	1.5	303	1.08	0.06	6.00	0.609	0.29	1.7
S726940		18.7	<0.002	0.01	1.16	25.1	2	1.5	292	0.66	0.11	3.08	0.690	0.18	1.0
S726941		72.6	<0.002	0.02	0.38	17.3	2	1.7	284	1.29	<0.05	10.20	0.574	0.45	2.3
S726942		70.6	<0.002	0.01	0.42	18.6	2	1.7	296	1.36	<0.05	9.52	0.600	0.47	2.4
S726943		58.3	<0.002	<0.01	0.34	17.0	2	1.7	343	1.64	<0.05	8.88	0.671	0.33	2.1
S726944		65.7	<0.002	0.01	0.37	17.7	1	1.8	318	1.56	<0.05	10.20	0.643	0.41	2.3
S726945		70.3	<0.002	0.01	0.33	17.1	3	2.0	336	4.35	<0.05	20.4	0.673	0.40	6.3
S726946		37.9	<0.002	0.01	0.54	19.2	2	1.7	317	1.26	0.07	6.11	0.638	0.29	1.7
S726947		55.0	<0.002	0.01	0.41	17.5	2	1.6	312	1.33	<0.05	7.63	0.615	0.36	2.0
S726948		52.1	<0.002	0.01	0.53	19.3	2	1.7	303	1.05	0.06	7.31	0.611	0.30	1.8
S726949		36.2	<0.002	<0.01	0.62	21.9	2	1.7	346	1.10	0.07	6.13	0.694	0.24	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
S726910		1.1	21.0	87	145.5	0.003
S726911		1.1	19.9	93	131.5	0.002
S726912		0.9	19.0	102	117.0	0.003
S726913		0.7	20.4	80	160.0	0.001
S726914		1.1	17.4	101	127.0	0.002
S726915		0.8	19.8	91	164.0	0.002
S726916		0.8	17.0	82	190.5	0.014
S726917		0.7	16.2	78	178.0	0.001
S726918		0.8	22.1	82	149.5	0.005
S726919		0.9	20.9	70	165.5	0.031
S726920		1.1	19.1	93	143.5	0.004
S726921		1.1	20.4	106	113.0	0.003
S726922		0.8	19.9	96	156.0	0.002
S726923		0.9	19.1	114	123.0	0.003
S726924		0.9	18.6	110	101.5	0.006
S726925		0.9	19.0	94	116.0	0.003
S726926		1.9	21.1	103	122.5	0.010
S726927		0.7	20.4	96	173.5	0.003
S726928		1.3	21.4	108	147.5	0.021
S726929		0.6	20.5	96	168.5	0.001
S726930		2.3	12.3	43	171.0	<0.001
S726931		1.7	17.6	85	142.5	0.017
S726932		1.0	20.0	80	157.0	0.046
S726933		1.1	20.4	97	150.5	0.006
S726934		9.6	21.1	96	110.5	0.019
S726935		0.9	19.5	93	173.5	0.009
S726936		0.8	18.9	92	174.5	0.008
S726937		0.9	21.7	102	129.5	0.013
S726938		1.0	19.5	108	112.5	0.045
S726939		0.9	19.2	85	144.5	0.008
S726940		1.1	22.2	122	93.0	0.033
S726941		0.7	19.0	99	172.5	0.003
S726942		0.7	21.2	124	177.0	0.003
S726943		0.6	22.1	79	202	0.003
S726944		0.7	21.6	98	166.5	0.008
S726945		0.6	27.0	105	187.0	0.002
S726946		0.7	17.9	119	148.0	0.001
S726947		0.6	20.0	86	166.5	0.003
S726948		0.7	21.5	96	154.5	0.007
S726949		0.8	22.0	81	158.0	0.004



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S726950		0.09	0.03	6.21	1.6	380	0.96	0.05	1.84	0.04	22.3	5.7	39	0.77	6.6	1.48
S726951		0.98	0.07	7.25	11.7	370	1.11	0.19	3.11	0.19	60.2	34.8	150	1.11	93.3	5.96
S726952		0.80	0.05	7.45	5.2	370	1.10	0.13	3.22	0.11	58.4	23.9	131	0.86	42.9	5.49
S726953		0.86	0.04	7.60	5.3	450	1.31	0.12	2.69	0.13	64.9	23.8	146	1.23	49.3	5.30
S726954		1.01	0.08	7.44	4.2	460	1.23	0.12	2.94	0.12	71.0	22.3	123	1.13	47.9	5.08
S726955		1.02	0.03	7.21	3.1	510	1.42	0.08	2.47	0.09	87.1	17.3	92	1.37	29.1	4.45
S726956		1.11	0.06	7.21	5.6	410	1.13	0.13	2.88	0.15	60.9	25.8	114	1.10	56.5	5.38
S726957		1.00	0.09	7.18	4.6	540	1.48	0.11	2.02	0.24	85.7	19.1	115	1.86	45.5	4.44
S726958		0.96	0.09	7.26	7.7	400	1.19	0.15	3.02	0.25	57.1	30.5	136	1.13	70.5	5.83
S726959		1.25	0.07	7.55	6.6	470	1.41	0.14	2.67	0.14	70.6	24.7	133	1.49	69.2	5.50
S726960		0.84	0.07	7.60	7.4	540	1.53	0.12	2.27	0.18	84.1	22.7	127	1.92	106.0	5.11
S726961		1.00	0.08	7.41	6.7	480	1.35	0.13	2.58	0.18	66.4	28.4	149	1.47	65.0	5.64
S726962		0.85	0.05	7.34	3.6	550	1.72	0.09	2.44	0.09	99.3	18.0	96	1.51	33.3	4.44
S726963		0.87	0.07	7.47	5.8	510	1.85	0.11	2.28	0.11	98.6	26.2	125	1.85	48.0	5.69
S726964		0.80	0.06	7.42	6.1	440	1.25	0.11	3.11	0.17	62.9	28.2	179	1.50	59.4	5.56
S726965		0.82	0.12	7.57	9.1	500	1.63	0.14	2.52	0.29	74.4	25.9	139	2.17	91.2	5.30
S726966		1.11	0.09	7.29	8.4	480	1.36	0.12	2.52	0.22	69.4	27.5	149	1.64	70.6	5.54
S726967		1.02	0.08	7.14	26.0	430	1.35	0.15	2.64	0.18	59.3	31.6	208	1.43	73.9	5.67
S726968		1.11	0.07	7.04	4.8	530	1.59	0.09	2.00	0.08	76.5	17.2	110	1.88	38.6	4.62
S726969		1.00	0.06	7.06	7.9	380	1.23	0.14	2.76	0.15	57.7	30.6	229	1.11	72.0	5.83
S726970		0.04	0.59	7.23	34.7	2740	2.80	5.48	0.58	0.34	93.2	14.9	19	6.98	1435	3.97
S726971		0.83	0.06	7.18	6.8	370	1.15	0.11	3.19	0.14	59.7	31.6	178	0.93	59.1	5.87
S726972		1.02	0.05	7.23	5.7	440	1.35	0.11	2.60	0.12	65.0	24.7	148	1.19	54.8	5.32
S726973		0.89	0.05	7.07	6.6	400	1.16	0.15	2.59	0.10	59.5	25.5	169	1.20	61.1	5.49
S726974		0.95	0.05	7.34	8.3	420	1.23	0.12	2.82	0.16	66.8	28.1	164	1.13	59.3	5.74
S726975		0.76	0.08	7.14	5.9	520	1.39	0.11	2.44	0.15	67.1	22.7	139	1.63	50.7	4.60
S726976		0.95	0.06	7.48	5.6	470	1.24	0.11	2.92	0.14	71.5	25.4	159	1.35	53.4	5.37
S726977		0.89	0.07	7.54	6.6	480	1.27	0.12	2.64	0.13	68.0	29.7	167	1.59	66.3	5.74
S726978		1.21	0.05	7.60	5.6	450	1.19	0.11	2.80	0.14	60.3	29.4	176	1.44	57.8	5.89
S726979		1.23	0.06	7.47	6.3	430	1.10	0.10	2.99	0.15	59.5	29.4	178	1.25	56.7	5.79
S726980		1.40	0.07	7.36	6.9	450	1.22	0.10	2.78	0.14	58.0	30.2	191	1.47	73.2	5.78
S726981		1.13	0.09	7.52	7.8	460	1.35	0.13	2.67	0.15	62.8	33.2	206	1.78	83.8	5.83
S726982		1.27	0.08	7.51	6.5	570	1.44	0.13	2.29	0.20	73.6	24.2	108	2.11	57.7	5.07
S726983		1.31	0.11	7.63	11.2	420	1.21	0.13	2.91	0.52	61.2	36.1	229	1.41	108.5	6.56
S726984		0.77	0.10	7.41	9.3	420	1.09	0.12	2.74	0.20	60.9	36.7	220	1.21	99.4	6.49
S726985		0.75	0.07	7.28	6.8	410	1.03	0.10	2.88	0.13	57.4	30.4	196	1.02	77.4	5.93
S726986		0.97	0.11	7.70	8.2	480	1.17	0.16	2.64	0.31	64.0	35.7	168	1.39	115.5	6.57
S726987		0.95	0.08	7.50	7.3	450	1.18	0.13	2.58	0.13	60.8	30.8	156	1.26	95.2	6.23
S726988		1.05	0.07	7.62	5.6	440	1.27	0.12	2.90	0.23	79.6	28.2	119	0.95	69.8	5.84
S726989		1.09	0.08	7.61	7.1	500	1.33	0.12	2.29	0.15	67.5	27.2	145	1.59	95.2	5.75



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S726950		14.00	0.07	1.4	0.020	1.22	10.4	7.3	0.51	272	0.11	2.70	3.1	18.2	230
S726951		19.75	0.12	3.3	0.083	0.98	25.9	16.9	2.31	1040	0.95	1.88	12.1	70.6	780
S726952		19.80	0.13	3.7	0.067	0.98	26.5	13.8	1.93	1020	0.50	2.14	19.0	51.8	1060
S726953		20.2	0.14	3.9	0.064	1.27	31.0	17.5	1.91	908	0.55	2.15	19.7	60.9	1010
S726954		19.90	0.15	4.6	0.074	1.24	34.0	15.7	1.79	936	0.59	2.26	20.0	52.1	1080
S726955		19.90	0.14	5.2	0.057	1.45	41.9	18.8	1.45	723	0.51	2.30	24.5	40.5	1140
S726956		19.20	0.14	4.0	0.064	1.08	29.5	16.4	1.92	1000	0.54	2.04	29.1	52.0	1040
S726957		19.75	0.16	4.2	0.056	1.55	41.7	21.5	1.52	594	0.68	2.07	25.1	55.1	980
S726958		19.75	0.12	3.9	0.070	1.07	25.5	16.5	2.09	1140	0.66	2.03	19.1	64.6	1070
S726959		21.0	0.13	4.8	0.071	1.26	36.5	18.8	1.91	968	0.82	2.12	24.8	60.2	1150
S726960		20.3	0.15	4.1	0.058	1.47	41.7	21.7	1.66	826	1.03	2.15	25.1	55.6	1050
S726961		20.6	0.13	4.2	0.069	1.27	29.8	19.9	2.04	1020	0.72	2.05	23.2	73.9	1030
S726962		20.9	0.17	4.9	0.064	1.57	48.0	20.0	1.40	762	0.67	2.42	34.0	39.7	1350
S726963		21.1	0.17	4.7	0.068	1.36	47.6	21.5	1.88	991	0.85	2.28	34.9	56.5	1400
S726964		19.80	0.13	3.5	0.066	1.16	28.2	17.2	2.29	1040	0.62	2.07	19.5	78.9	1180
S726965		21.1	0.16	4.0	0.067	1.31	35.8	22.4	1.92	754	0.88	1.84	24.5	65.9	960
S726966		20.6	0.14	4.2	0.064	1.35	32.2	20.6	1.98	916	0.94	2.00	20.9	77.2	1100
S726967		19.95	0.13	3.5	0.076	1.22	28.6	18.2	2.29	984	0.77	1.87	23.8	103.5	990
S726968		20.1	0.16	4.5	0.059	1.53	40.5	22.7	1.47	568	0.64	2.07	36.4	48.2	1000
S726969		19.65	0.13	3.4	0.066	0.99	26.8	17.0	2.43	884	0.65	1.85	18.7	103.5	1060
S726970		25.4	0.18	7.2	0.642	2.78	47.1	18.0	0.26	366	3.24	2.36	18.7	8.9	270
S726971		20.0	0.13	3.2	0.074	0.98	25.0	15.3	2.33	1100	0.56	1.99	16.9	81.1	1070
S726972		20.2	0.11	4.0	0.067	1.22	30.6	17.6	1.95	907	0.60	2.06	20.5	66.1	980
S726973		19.50	0.13	3.6	0.070	1.13	28.7	16.6	2.07	907	0.66	1.94	22.1	72.5	920
S726974		20.1	0.15	4.0	0.067	1.09	31.0	16.4	2.12	1050	0.61	2.01	21.0	72.9	1040
S726975		19.40	0.15	4.1	0.063	1.47	32.7	18.4	1.67	836	0.63	2.08	19.2	64.2	1080
S726976		20.4	0.15	4.1	0.066	1.31	33.6	17.0	1.93	900	0.59	2.14	20.7	71.3	1180
S726977		20.6	0.12	3.8	0.070	1.26	31.2	19.3	2.12	1010	0.73	2.01	23.5	81.0	1010
S726978		19.95	0.13	3.3	0.068	1.20	28.2	17.8	2.24	945	0.64	1.94	16.6	85.8	910
S726979		20.0	0.12	3.3	0.072	1.16	27.5	15.9	2.25	1090	0.54	1.98	16.8	85.2	1000
S726980		19.90	0.12	3.4	0.067	1.26	26.1	17.4	2.31	1040	0.75	1.95	16.5	98.2	1000
S726981		20.4	0.13	3.7	0.068	1.31	29.1	20.1	2.39	957	0.66	1.86	15.7	106.5	940
S726982		20.5	0.16	4.0	0.063	1.58	34.7	24.5	1.73	794	0.68	2.03	18.3	55.2	970
S726983		20.3	0.13	3.1	0.074	1.09	26.8	16.9	2.55	1170	0.86	1.77	17.3	119.0	1100
S726984		20.1	0.12	3.0	0.070	1.11	24.5	16.0	2.54	1360	0.66	1.75	18.8	111.0	1110
S726985		19.20	0.12	3.2	0.063	1.06	25.0	14.4	2.33	1110	0.57	1.87	18.8	93.7	1020
S726986		20.7	0.14	3.5	0.074	1.28	26.7	18.0	2.24	1260	0.91	1.78	18.2	88.3	1170
S726987		20.6	0.13	3.6	0.069	1.16	26.5	16.8	2.07	1130	0.67	1.82	22.5	74.8	1110
S726988		20.7	0.16	3.8	0.074	1.18	34.1	14.4	1.85	1200	0.59	2.03	21.3	57.6	1240
S726989		21.5	0.14	3.9	0.072	1.33	32.3	19.7	1.91	946	0.79	1.94	21.8	71.8	1050



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S726950		47.1	<0.002	<0.01	0.08	6.3	1	0.5	382	0.21	<0.05	2.29	0.178	0.26	0.4
S726951		25.2	<0.002	<0.01	0.74	23.6	2	1.6	299	0.75	0.08	4.31	0.611	0.21	1.2
S726952		31.5	<0.002	0.01	0.72	23.9	2	1.6	332	0.97	<0.05	4.77	0.718	0.20	1.3
S726953		47.5	<0.002	0.01	0.55	20.4	2	1.5	314	0.97	<0.05	6.16	0.648	0.30	1.6
S726954		44.0	<0.002	<0.01	0.54	20.7	2	1.7	340	1.37	<0.05	6.45	0.650	0.29	2.0
S726955		57.2	<0.002	0.01	0.34	17.0	1	1.6	347	1.22	<0.05	8.70	0.599	0.35	1.9
S726956		38.2	<0.002	<0.01	0.61	20.8	2	1.5	307	1.65	<0.05	5.89	0.635	0.25	2.3
S726957		66.2	0.002	0.03	0.41	16.3	2	1.5	280	1.18	<0.05	9.08	0.545	0.40	2.5
S726958		27.7	<0.002	<0.01	0.72	22.4	2	1.6	303	1.01	0.05	4.88	0.673	0.25	1.5
S726959		49.2	<0.002	0.01	0.60	21.4	2	1.6	310	1.26	<0.05	7.85	0.652	0.33	2.1
S726960		58.7	<0.002	0.01	0.45	17.8	2	1.6	303	1.12	<0.05	8.68	0.581	0.41	2.2
S726961		39.6	<0.002	0.01	0.64	21.4	2	1.7	296	1.27	<0.05	6.51	0.652	0.30	1.7
S726962		63.3	<0.002	<0.01	0.36	17.3	2	1.7	354	1.64	<0.05	9.19	0.641	0.39	2.4
S726963		62.3	<0.002	0.02	0.44	21.2	2	1.8	297	1.67	<0.05	9.94	0.777	0.39	2.2
S726964		34.7	<0.002	<0.01	0.65	22.9	2	1.5	337	0.97	<0.05	5.21	0.669	0.25	1.3
S726965		54.5	<0.002	0.01	0.66	22.9	2	1.7	287	1.20	0.05	7.98	0.615	0.38	1.7
S726966		47.7	<0.002	<0.01	0.65	21.4	1	1.6	301	1.04	0.05	6.79	0.586	0.33	1.7
S726967		45.0	<0.002	<0.01	0.68	23.1	2	1.6	285	1.04	0.06	6.17	0.599	0.28	1.6
S726968		68.3	<0.002	0.01	0.44	16.7	1	1.7	280	1.38	<0.05	9.53	0.553	0.43	2.3
S726969		28.0	<0.002	<0.01	0.76	25.5	2	1.6	285	0.99	0.06	4.80	0.705	0.23	1.3
S726970		141.0	<0.002	0.06	2.00	5.4	3	4.0	157.0	1.32	0.07	14.40	0.121	0.75	5.0
S726971		27.4	<0.002	<0.01	0.83	26.6	1	1.5	316	0.87	<0.05	4.19	0.718	0.22	1.1
S726972		41.7	<0.002	<0.01	0.64	23.0	2	1.6	297	1.01	<0.05	5.97	0.648	0.28	1.5
S726973		38.3	<0.002	0.01	0.68	22.7	1	1.6	285	1.09	<0.05	5.46	0.680	0.26	1.4
S726974		35.7	<0.002	0.01	0.67	23.9	2	1.6	303	1.03	<0.05	5.89	0.711	0.25	1.4
S726975		56.0	<0.002	0.01	0.56	19.4	2	1.5	314	0.91	<0.05	7.09	0.559	0.32	1.6
S726976		51.1	<0.002	<0.01	0.66	23.7	1	1.6	340	1.05	0.06	6.50	0.664	0.28	1.4
S726977		45.0	<0.002	0.01	0.67	23.9	1	1.6	306	1.05	0.06	6.51	0.631	0.31	1.4
S726978		45.3	<0.002	0.01	0.73	24.8	1	1.5	298	0.87	0.05	5.74	0.661	0.28	1.2
S726979		43.3	<0.002	<0.01	0.80	25.1	1	1.5	311	0.89	<0.05	5.04	0.679	0.25	1.1
S726980		40.7	<0.002	<0.01	0.75	23.3	2	1.5	308	0.81	<0.05	5.46	0.621	0.26	1.1
S726981		46.6	<0.002	0.01	0.78	25.2	1	1.6	287	0.88	0.05	6.25	0.615	0.31	1.3
S726982		64.1	<0.002	0.01	0.60	19.8	1	1.7	311	0.96	0.05	8.36	0.576	0.38	1.5
S726983		40.9	<0.002	0.01	0.98	28.3	2	1.5	288	0.95	<0.05	5.08	0.699	0.22	1.1
S726984		34.2	<0.002	<0.01	0.99	27.8	2	1.5	268	0.86	<0.05	4.70	0.699	0.22	1.1
S726985		37.1	<0.002	<0.01	0.89	26.9	1	1.5	289	0.86	<0.05	4.33	0.690	0.21	1.1
S726986		38.7	<0.002	<0.01	0.91	25.8	2	1.6	273	1.01	0.07	5.27	0.672	0.25	1.2
S726987		36.5	<0.002	0.01	0.91	25.8	2	1.6	279	1.01	0.06	4.97	0.681	0.24	1.2
S726988		41.3	<0.002	<0.01	0.92	27.0	2	1.7	314	1.03	0.05	5.46	0.752	0.24	1.2
S726989		53.2	<0.002	0.01	0.71	22.1	2	1.6	283	1.00	<0.05	6.39	0.628	0.29	1.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
S726950		0.2	7.0	20	49.9	<0.001
S726951		1.0	22.2	121	114.0	0.004
S726952		0.8	22.1	90	133.5	0.016
S726953		0.8	20.4	94	144.5	0.007
S726954		0.8	21.9	89	158.5	0.002
S726955		0.6	19.3	78	181.5	0.003
S726956		0.7	21.3	106	138.0	0.003
S726957		0.6	20.0	94	145.0	0.002
S726958		0.8	22.1	122	137.0	0.011
S726959		0.7	22.9	111	170.5	0.001
S726960		1.8	21.9	115	148.5	0.003
S726961		0.8	20.8	119	147.5	0.002
S726962		0.6	22.3	85	179.5	0.001
S726963		0.8	23.1	109	170.5	<0.001
S726964		0.8	22.1	108	126.5	0.005
S726965		0.9	25.2	142	147.5	0.002
S726966		0.8	21.4	114	145.0	0.003
S726967		1.1	21.2	105	129.0	0.008
S726968		0.7	20.2	93	160.5	0.001
S726969		0.9	22.0	103	124.0	0.003
S726970		2.9	16.3	136	254	0.391
S726971		0.9	22.5	91	118.0	0.007
S726972		0.8	21.0	93	148.0	0.003
S726973		0.8	20.8	94	131.5	0.003
S726974		0.8	22.5	105	138.5	0.003
S726975		0.7	21.1	91	147.5	0.001
S726976		0.8	23.3	94	153.5	0.006
S726977		0.8	21.3	102	138.0	0.002
S726978		0.9	22.0	98	124.0	0.002
S726979		0.9	22.7	94	119.0	0.002
S726980		0.8	21.4	97	122.5	0.006
S726981		0.9	22.3	106	131.0	0.002
S726982		0.8	21.7	108	143.0	0.002
S726983		1.1	25.1	175	116.0	0.006
S726984		1.0	23.9	109	107.5	0.003
S726985		0.9	23.4	96	117.0	0.004
S726986		1.1	24.1	139	124.0	0.004
S726987		1.1	24.3	119	129.5	0.019
S726988		1.1	26.5	104	137.5	0.009
S726989		0.9	24.7	123	147.5	0.010



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S728001		1.02	0.06	7.06	9.0	520	1.32	0.08	2.35	0.15	72.7	34.7	155	1.76	114.5	5.35
S728002		0.94	0.05	6.44	3.4	480	1.31	0.07	2.08	0.11	73.1	17.0	125	1.40	27.4	4.19
S728003		0.83	0.05	6.68	4.4	490	1.32	0.07	2.00	0.13	74.2	21.6	141	1.73	45.6	4.75
S728004		0.97	0.08	6.82	4.3	500	1.32	0.09	2.08	0.17	74.2	23.4	172	1.85	61.4	5.00
S728005		0.97	0.08	7.00	4.6	500	1.29	0.08	2.26	0.20	70.8	25.3	181	1.72	53.5	5.32
S728006		0.74	0.05	7.00	5.0	420	1.03	0.07	2.57	0.13	49.4	30.0	189	1.30	78.2	5.90
S728007		0.62	0.06	6.77	4.0	490	1.30	0.08	2.27	0.19	70.0	24.8	160	1.55	48.4	5.22
S728008		0.91	0.08	7.14	4.5	550	1.38	0.08	1.95	0.18	83.8	25.1	153	1.98	42.8	5.13
S728009		0.59	0.05	7.21	4.0	510	1.43	0.07	2.33	0.09	83.3	20.6	178	1.51	35.2	4.89
S728010		0.94	0.06	6.78	3.2	500	1.20	0.08	2.64	0.15	78.0	20.5	205	1.28	28.1	4.83
S728011		0.75	0.05	6.95	3.5	520	1.30	0.08	2.48	0.16	75.0	20.1	138	1.54	35.8	4.64
S728012		0.57	0.05	6.60	3.4	490	1.64	0.09	2.10	0.18	83.1	20.6	144	1.51	34.7	4.28
S728013		0.74	0.02	6.55	2.6	450	1.17	0.07	3.03	0.12	52.8	19.1	129	1.19	54.0	4.75
S728014		0.97	0.08	7.44	5.7	570	1.69	0.12	1.77	0.14	78.8	24.4	144	2.63	58.1	5.56
S728015		1.09	0.04	7.11	4.5	520	1.69	0.10	1.88	0.12	66.3	24.2	173	2.01	36.9	5.03
S728016		1.01	0.02	6.71	3.4	490	1.55	0.08	1.99	0.12	73.7	19.7	141	1.57	35.0	4.45
S728017		0.72	0.03	6.64	3.5	490	1.52	0.09	2.07	0.12	76.4	17.4	124	1.42	30.0	4.01
S728018		0.95	0.06	6.57	3.3	480	1.47	0.08	2.14	0.14	70.8	20.1	140	1.45	31.9	4.33
S728019		1.00	0.03	6.64	3.8	480	1.49	0.09	2.04	0.13	72.6	19.9	143	1.63	34.6	4.42
S728020		0.06	0.50	7.66	35.4	2860	3.30	6.04	0.61	0.38	90.8	15.9	18	7.47	1540	4.14
S728021		0.74	0.03	7.06	3.4	520	1.52	0.10	2.04	0.10	75.8	19.9	150	1.73	38.8	4.56
S728022		1.05	0.04	7.47	4.6	530	1.66	0.10	2.13	0.13	67.1	25.3	174	2.03	51.3	5.35
S728023		0.88	0.07	7.06	5.1	540	1.68	0.10	1.98	0.18	78.9	21.6	173	2.04	44.2	4.90
S728024		0.86	0.03	7.42	4.2	520	1.34	0.09	2.45	0.12	58.7	27.8	158	1.86	60.3	5.48
S728025		0.65	0.02	6.90	3.2	410	1.12	0.08	2.74	0.15	57.7	28.4	174	1.23	76.2	5.05
S728026		1.14	0.06	7.31	5.8	560	1.64	0.10	1.92	0.27	75.1	27.2	169	2.37	56.0	5.52
S728027		0.97	0.03	6.90	3.3	520	1.55	0.08	2.25	0.15	77.7	19.5	150	1.56	35.9	4.42
S728028		0.97	0.06	7.60	3.8	530	1.39	0.10	2.22	0.17	61.8	30.4	123	2.58	83.8	6.77
S728029		0.81	0.04	7.62	3.2	490	1.21	0.07	1.98	0.18	52.0	33.5	144	2.64	94.6	7.06
S728030		1.11	0.06	7.22	5.4	490	1.31	0.09	2.45	0.17	57.5	29.2	108	2.41	76.9	6.25
S728031		0.79	0.05	6.88	4.3	500	1.55	0.08	2.21	0.14	66.3	20.5	158	1.61	38.0	4.70
S728032		1.05	0.04	7.18	4.5	570	1.50	0.11	2.06	0.20	69.0	22.0	167	1.87	64.1	4.94
S728033		1.05	0.03	6.99	4.2	480	1.31	0.09	2.66	0.14	56.3	31.3	244	2.19	74.8	6.29
S728034		0.79	0.04	7.17	4.4	530	1.70	0.10	2.05	0.14	75.8	21.4	167	1.95	41.5	4.77
S728035		1.03	0.04	7.06	14.4	510	1.47	0.12	1.92	0.16	74.5	23.0	192	1.23	42.7	5.29
S728036		0.74	0.03	6.70	22.5	470	1.46	0.09	2.14	0.21	69.5	20.0	128	1.06	50.3	4.92
S728037		1.19	0.05	7.15	14.3	520	1.49	0.11	1.80	0.30	67.9	29.1	222	2.41	59.6	5.52
S728038		1.08	0.09	6.99	4.9	540	1.60	0.10	1.98	0.21	74.1	23.7	169	2.17	47.6	4.94
S728039		0.93	0.04	6.81	4.6	480	1.29	0.08	1.59	0.16	65.1	20.6	127	1.11	41.5	5.08
S728040		0.20	0.03	6.23	0.9	390	1.11	0.05	1.83	0.04	23.8	6.0	37	0.81	7.2	1.48



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728001		18.25	0.14	4.0	0.056	1.52	34.8	20.6	1.82	1040	0.65	1.94	16.8	58.5	1030
S728002		18.10	0.13	4.6	0.056	1.50	37.1	17.6	1.33	661	0.70	2.07	18.4	46.0	930
S728003		18.60	0.13	4.8	0.055	1.51	36.7	21.1	1.53	796	0.74	1.98	17.5	52.5	900
S728004		18.75	0.15	4.5	0.064	1.55	40.2	20.2	1.63	861	0.87	1.96	17.5	64.9	990
S728005		18.90	0.13	4.3	0.061	1.54	34.8	20.3	1.84	950	0.93	1.97	17.5	67.3	1030
S728006		16.95	0.11	2.9	0.064	1.24	22.7	15.8	2.25	1040	0.53	2.02	11.9	77.0	840
S728007		18.60	0.11	4.0	0.057	1.51	33.1	18.9	1.71	921	0.67	1.99	17.6	60.8	1020
S728008		20.1	0.14	4.4	0.066	1.75	40.8	23.0	1.63	879	0.96	1.98	18.8	65.0	1010
S728009		19.45	0.15	5.1	0.063	1.60	40.2	19.8	1.56	802	0.85	2.24	20.1	52.3	1030
S728010		18.15	0.15	4.4	0.060	1.41	37.9	16.7	1.69	864	0.62	2.11	25.2	57.8	1080
S728011		18.45	0.15	5.1	0.060	1.51	36.4	18.1	1.55	768	0.54	2.12	18.2	51.5	1070
S728012		19.15	0.11	5.3	0.058	1.46	41.0	23.2	1.33	717	1.32	2.10	21.4	58.3	1110
S728013		16.05	0.09	4.1	0.056	1.33	25.4	14.9	1.40	804	0.39	1.70	15.9	34.5	920
S728014		21.1	0.10	4.5	0.055	1.73	43.6	29.5	1.57	814	0.88	1.84	17.5	59.7	940
S728015		20.8	0.08	4.8	0.071	1.56	32.4	27.4	1.62	639	0.77	1.93	20.5	57.4	810
S728016		19.25	0.11	4.5	0.053	1.47	38.4	22.9	1.40	686	0.66	2.05	21.1	52.8	920
S728017		19.00	0.11	5.5	0.051	1.52	39.7	21.3	1.18	656	0.73	2.21	21.3	45.4	1050
S728018		18.90	0.09	4.9	0.054	1.45	35.1	22.1	1.37	747	0.72	2.05	20.6	51.1	1000
S728019		18.95	0.10	5.3	0.056	1.43	37.2	22.6	1.40	739	0.68	2.02	21.2	51.1	840
S728020		27.9	0.12	7.7	0.685	2.88	45.8	22.2	0.27	377	3.41	2.46	20.5	9.6	290
S728021		19.90	0.11	5.5	0.062	1.53	38.7	24.6	1.46	683	0.74	2.10	20.5	53.2	870
S728022		20.2	0.09	4.5	0.058	1.61	33.4	27.1	1.82	852	0.75	2.00	18.5	68.8	890
S728023		20.1	0.09	5.2	0.057	1.63	39.9	26.6	1.52	766	0.94	2.04	21.9	63.1	1080
S728024		19.60	0.08	3.9	0.060	1.50	29.1	24.3	1.87	935	0.57	1.99	16.6	62.7	920
S728025		18.00	0.10	3.9	0.062	1.17	26.5	17.2	1.79	914	0.42	2.07	15.8	61.0	930
S728026		21.0	0.10	4.6	0.059	1.77	36.7	29.0	1.73	935	1.19	1.90	18.7	76.2	1080
S728027		19.70	0.11	5.5	0.061	1.53	39.7	22.6	1.37	725	0.66	2.25	26.5	52.4	1230
S728028		20.4	0.08	3.9	0.066	1.55	30.1	28.0	1.95	1140	0.58	1.81	17.9	57.8	980
S728029		19.55	0.09	3.9	0.067	1.46	24.3	26.1	2.23	1040	0.47	1.59	14.4	68.6	960
S728030		19.45	0.07	3.6	0.064	1.40	27.1	25.1	1.77	911	0.51	1.82	15.5	52.2	920
S728031		18.40	0.10	4.7	0.056	1.51	32.7	20.3	1.50	782	0.64	2.01	18.7	58.5	1000
S728032		18.85	0.10	5.0	0.053	1.66	35.2	22.5	1.68	845	0.50	2.02	20.4	62.5	1010
S728033		18.15	0.07	3.1	0.063	1.33	27.2	23.2	2.70	1120	0.47	1.68	15.1	95.4	1010
S728034		20.7	0.10	5.1	0.059	1.63	39.1	26.2	1.55	737	0.91	2.10	22.0	62.4	990
S728035		19.45	0.09	5.5	0.055	1.52	38.2	19.7	1.55	830	0.61	2.05	19.4	77.2	1090
S728036		18.60	0.10	5.0	0.069	1.37	32.7	17.2	1.34	783	0.69	2.14	19.4	46.7	1000
S728037		19.50	0.08	4.2	0.059	1.58	31.9	26.1	2.06	1260	0.72	1.82	16.1	96.4	1000
S728038		19.75	0.08	5.0	0.054	1.70	38.0	27.3	1.67	816	1.07	1.97	19.2	83.2	1040
S728039		17.60	0.09	4.1	0.054	1.33	31.5	16.9	1.44	887	0.53	2.02	18.2	40.6	1020
S728040		14.95	0.06	1.1	0.017	1.20	11.6	8.7	0.53	268	0.07	2.71	2.9	19.5	230



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S728001		61.4	<0.002	0.01	0.48	24.5	2	1.4	253	0.94	<0.05	7.14	0.632	0.36	1.6
S728002		58.9	<0.002	<0.01	0.36	17.6	2	1.5	254	1.09	<0.05	7.31	0.642	0.34	1.8
S728003		61.8	<0.002	0.01	0.37	18.8	1	1.4	253	1.00	<0.05	8.30	0.614	0.38	1.9
S728004		67.5	<0.002	0.01	0.40	19.3	2	1.4	239	1.00	<0.05	7.43	0.632	0.36	2.2
S728005		60.6	<0.002	<0.01	0.50	23.3	1	1.4	248	1.02	0.06	6.90	0.652	0.35	1.7
S728006		46.1	<0.002	<0.01	0.71	28.9	1	1.3	265	0.70	<0.05	4.22	0.583	0.30	1.2
S728007		57.0	<0.002	<0.01	0.46	21.9	1	1.4	243	1.00	<0.05	6.29	0.646	0.32	1.6
S728008		73.7	<0.002	<0.01	0.40	18.6	1	1.6	223	1.06	0.05	8.54	0.641	0.44	2.0
S728009		62.4	<0.002	0.01	0.38	20.6	1	1.5	273	1.17	<0.05	7.42	0.699	0.36	1.8
S728010		52.1	<0.002	<0.01	0.50	22.1	1	1.5	296	1.15	<0.05	7.18	0.686	0.30	1.7
S728011		59.4	<0.002	<0.01	0.44	20.4	1	1.5	308	1.06	<0.05	7.57	0.598	0.36	1.8
S728012		58.4	<0.002	0.01	0.38	17.7	1	1.5	262	1.29	<0.05	7.99	0.661	0.34	1.7
S728013		41.9	<0.002	<0.01	0.58	24.7	1	1.1	314	1.05	<0.05	5.02	0.520	0.24	1.3
S728014		75.6	<0.002	0.02	0.42	18.9	2	1.5	239	1.11	<0.05	9.97	0.539	0.45	2.0
S728015		63.6	<0.002	<0.01	0.44	20.0	1	1.5	216	1.27	<0.05	9.46	0.669	0.37	1.8
S728016		56.6	<0.002	<0.01	0.36	19.0	1	1.5	247	1.32	<0.05	7.53	0.639	0.31	1.8
S728017		57.4	<0.002	<0.01	0.32	16.6	1	1.4	282	1.31	<0.05	7.58	0.623	0.34	1.9
S728018		54.0	<0.002	<0.01	0.36	18.3	1	1.5	256	1.24	<0.05	7.52	0.659	0.30	1.6
S728019		55.2	<0.002	0.01	0.38	18.3	1	1.4	259	1.37	<0.05	7.49	0.654	0.33	1.8
S728020		138.5	<0.002	0.07	2.16	5.6	3	4.0	165.5	1.50	0.09	14.60	0.125	0.81	4.8
S728021		60.4	<0.002	0.01	0.39	19.2	1	1.5	258	1.28	<0.05	7.96	0.647	0.37	1.9
S728022		64.3	<0.002	0.01	0.50	21.8	1	1.4	244	1.17	<0.05	7.81	0.648	0.37	1.7
S728023		69.3	<0.002	0.01	0.41	18.5	1	1.5	251	1.31	<0.05	9.14	0.641	0.42	2.0
S728024		60.4	<0.002	0.01	0.56	25.0	1	1.3	258	0.98	<0.05	6.32	0.662	0.34	1.4
S728025		41.2	<0.002	<0.01	0.57	27.1	1	1.3	292	0.95	<0.05	5.35	0.688	0.23	1.2
S728026		72.4	<0.002	<0.01	0.53	20.1	1	1.5	221	1.19	<0.05	8.84	0.632	0.41	1.6
S728027		58.8	<0.002	<0.01	0.37	18.7	1	1.5	291	1.40	<0.05	7.59	0.694	0.32	1.8
S728028		63.4	<0.002	<0.01	0.68	26.7	1	1.4	250	0.97	<0.05	7.89	0.680	0.37	1.4
S728029		56.4	<0.002	<0.01	0.78	29.8	1	1.3	221	0.88	<0.05	5.24	0.637	0.33	1.2
S728030		59.4	<0.002	<0.01	0.61	26.2	1	1.3	277	0.96	<0.05	6.25	0.624	0.34	1.3
S728031		55.8	<0.002	<0.01	0.43	18.6	<1	1.4	261	1.14	<0.05	7.05	0.631	0.32	1.5
S728032		61.7	<0.002	0.01	0.49	19.9	1	1.4	286	1.06	<0.05	7.90	0.572	0.38	1.7
S728033		56.8	<0.002	0.01	0.84	29.8	1	1.3	293	0.86	<0.05	5.39	0.570	0.34	1.4
S728034		65.4	<0.002	0.01	0.42	18.5	1	1.6	255	1.31	<0.05	8.67	0.659	0.39	1.8
S728035		52.3	<0.002	0.01	1.18	20.4	1	1.5	268	1.19	<0.05	7.95	0.692	0.29	1.6
S728036		45.8	<0.002	<0.01	0.77	19.7	1	1.5	284	1.20	0.06	6.81	0.658	0.28	1.5
S728037		65.6	<0.002	0.01	0.79	21.9	1	1.5	239	0.97	<0.05	7.89	0.540	0.41	1.7
S728038		71.8	<0.002	<0.01	0.40	17.1	1	1.5	240	1.19	<0.05	9.60	0.613	0.44	2.0
S728039		45.4	<0.002	0.01	0.63	19.3	1	1.4	222	1.07	<0.05	6.25	0.700	0.26	1.4
S728040		45.6	<0.002	<0.01	0.10	6.3	1	0.4	385	0.19	<0.05	2.32	0.162	0.23	0.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
S728001		0.7	21.5	96	147.5	0.001
S728002		0.5	19.9	71	164.5	<0.001
S728003		0.5	19.4	82	173.0	0.003
S728004		0.6	22.2	90	166.0	0.001
S728005		0.6	21.6	95	154.0	0.001
S728006		0.7	19.3	89	100.5	0.002
S728007		0.6	20.9	87	148.5	0.002
S728008		0.6	21.5	94	161.5	<0.001
S728009		0.6	21.9	79	186.0	<0.001
S728010		0.7	21.6	79	159.0	<0.001
S728011		0.9	20.4	80	179.5	<0.001
S728012		0.6	19.5	79	189.0	0.001
S728013		0.5	17.9	71	142.0	0.004
S728014		0.7	19.4	92	159.0	0.001
S728015		0.7	18.8	91	169.5	0.001
S728016		0.6	19.6	77	161.5	0.001
S728017		0.6	19.0	69	192.5	0.002
S728018		0.6	18.9	75	172.0	<0.001
S728019		0.6	18.7	75	178.0	0.001
S728020		3.1	16.2	143	266	0.388
S728021		0.6	20.1	77	190.5	0.001
S728022		0.7	19.2	93	159.5	0.001
S728023		0.7	19.7	92	181.5	0.005
S728024		0.8	19.9	93	134.5	0.001
S728025		0.7	20.5	80	138.5	<0.001
S728026		0.7	20.5	106	166.0	0.002
S728027		0.6	20.4	77	197.5	0.001
S728028		0.8	21.2	105	137.0	<0.001
S728029		1.1	19.5	109	136.5	0.001
S728030		0.7	20.1	98	123.5	0.001
S728031		0.7	18.7	81	179.0	0.012
S728032		0.8	19.1	89	176.0	0.002
S728033		0.7	19.2	97	109.5	<0.001
S728034		0.6	20.1	87	182.5	<0.001
S728035		0.8	20.7	89	193.0	0.005
S728036		0.7	20.4	93	176.0	0.003
S728037		0.9	18.8	104	146.5	0.003
S728038		0.6	18.6	100	177.0	<0.001
S728039		0.7	17.7	79	149.0	<0.001
S728040		0.2	6.1	20	39.0	<0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728041		1.36	0.08	7.24	5.2	570	1.78	0.10	1.78	0.17	77.5	23.9	162	2.30	51.8
S728042		0.84	0.04	6.91	3.3	510	1.53	0.07	2.18	0.11	79.1	18.2	154	1.47	29.8
S728043		0.75	0.08	7.05	5.3	540	1.52	0.10	1.95	0.24	73.5	27.1	190	2.19	56.0
S728044		0.80	0.05	7.19	2.7	570	1.35	0.09	2.51	0.18	71.0	29.5	327	1.76	64.2
S728045		1.12	0.06	7.19	4.1	580	1.68	0.10	1.89	0.17	76.2	20.2	186	2.40	42.2
S728046		0.88	0.05	7.45	4.2	580	1.77	0.11	1.99	0.11	71.6	16.9	149	2.24	34.1
S728047		1.04	0.07	7.38	4.7	600	1.84	0.11	1.81	0.18	84.1	21.3	137	2.61	42.6
S728048		0.84	0.02	6.74	3.7	520	1.42	0.09	1.95	0.11	67.1	18.4	119	1.69	31.9
S728049		0.68	0.03	6.73	5.0	520	1.52	0.09	2.05	0.17	68.7	22.9	144	1.66	45.4
S728050		0.72	0.08	7.29	6.6	600	1.71	0.11	1.78	0.17	73.1	27.1	157	2.63	57.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728041		20.8	0.11	5.1	0.059	1.77	40.9	28.7	1.66	845	1.05	1.92	19.8	75.1	1050
S728042		19.75	0.12	6.2	0.064	1.50	41.1	22.6	1.36	667	0.61	2.23	23.6	55.3	960
S728043		20.1	0.10	4.9	0.056	1.67	35.9	28.2	1.82	865	1.03	1.90	19.9	99.0	1040
S728044		18.75	0.09	5.1	0.044	1.65	34.9	25.9	2.08	837	0.42	2.06	15.6	161.0	930
S728045		20.6	0.10	5.1	0.061	1.75	41.3	30.3	1.67	602	0.97	2.03	23.9	73.7	1060
S728046		21.4	0.09	5.2	0.057	1.78	39.8	28.8	1.48	608	0.81	2.20	22.7	55.2	1080
S728047		21.6	0.11	6.3	0.051	1.84	43.7	30.8	1.41	817	1.21	2.11	20.5	66.8	1140
S728048		19.45	0.09	4.8	0.054	1.54	31.6	21.0	1.20	630	1.08	2.13	18.5	46.8	1010
S728049		19.20	0.09	4.9	0.054	1.54	33.3	22.7	1.40	748	0.61	2.13	18.5	59.8	1030
S728050		22.0	0.10	4.2	0.051	1.79	36.3	32.0	1.71	693	0.74	1.93	17.6	73.5	1000



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: QK-2016-TS-004

CERTIFICATE OF ANALYSIS VO16133514

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S728041		75.4	<0.002	0.01	0.42	18.2	1	1.4	230	1.22	<0.05	10.15	0.578	0.45	2.0
S728042		56.8	<0.002	0.01	0.32	18.0	1	1.5	284	1.44	<0.05	7.87	0.705	0.35	1.9
S728043		72.1	<0.002	<0.01	0.43	18.6	1	1.5	221	1.28	<0.05	9.09	0.621	0.41	1.8
S728044		61.5	<0.002	<0.01	0.33	18.0	1	1.3	300	0.98	<0.05	8.44	0.505	0.37	1.4
S728045		78.7	<0.002	0.01	0.39	16.8	1	1.6	249	1.46	<0.05	10.05	0.630	0.44	2.1
S728046		77.9	<0.002	0.01	0.35	17.4	1	1.7	281	1.43	<0.05	9.76	0.616	0.42	2.1
S728047		86.1	<0.002	0.01	0.35	15.8	1	1.6	277	1.35	<0.05	11.70	0.562	0.49	2.5
S728048		58.5	<0.002	0.01	0.34	15.8	1	1.4	286	1.14	<0.05	7.37	0.562	0.36	1.7
S728049		60.1	<0.002	<0.01	0.39	17.2	1	1.5	272	1.23	<0.05	7.70	0.574	0.34	1.6
S728050		78.6	<0.002	0.01	0.37	17.7	1	1.6	242	1.16	<0.05	9.61	0.533	0.46	2.0



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16133514

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
S728041		0.7	18.3	103	180.5	0.002
S728042		0.6	20.5	76	219	<0.001
S728043		0.6	19.8	100	173.5	0.001
S728044		0.6	18.2	72	172.5	0.001
S728045		0.6	19.1	100	178.5	0.001
S728046		0.7	18.8	91	177.0	<0.001
S728047		0.6	19.1	100	224	<0.001
S728048		0.6	16.3	71	180.5	<0.001
S728049		0.6	17.8	82	178.5	0.001
S728050		0.7	17.9	103	157.5	<0.001



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16133514

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
DRY-21 LOG-22 LOG-24 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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North Vancouver BC V7H 0A7
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CERTIFICATE VO16133518

Project: QK-2016-TS-004

This report is for 131 Soil samples submitted to our lab in Val d'Or, QC, Canada on 11-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
DRY-21	High Temperature Drying
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728442		1.66	0.008	0.02	7.20	4.9	540	1.44	0.07	2.33	0.18	93.0	25.8	187	1.65	48.2
S728443		1.42	0.004	0.02	7.26	3.3	500	1.17	0.07	3.00	0.14	73.7	27.6	149	1.74	89.0
S728444		1.19	0.002	0.03	7.44	3.4	570	1.38	0.07	2.25	0.12	83.3	25.3	196	1.53	42.6
S728445		1.40	0.002	0.05	7.42	4.1	620	1.40	0.10	1.97	0.14	82.7	22.8	126	1.91	38.5
S728446		1.07	0.001	0.05	7.67	4.5	600	1.49	0.10	2.03	0.17	85.2	26.5	166	1.99	41.5
S728447		1.12	0.002	0.03	7.43	3.8	590	1.57	0.08	2.12	0.13	85.4	20.9	127	1.74	42.9
S728448		1.37	0.003	0.04	7.29	4.6	590	1.42	0.10	2.00	0.12	84.8	20.5	155	1.90	49.7
S728449		1.34	0.002	0.04	7.47	5.1	590	1.72	0.08	1.86	0.14	104.5	28.3	222	1.99	41.7
S728450		1.32	0.001	0.04	6.81	4.0	520	1.56	0.06	2.33	0.13	100.5	21.9	195	1.18	28.6
S728451		0.10	0.001	0.02	6.42	1.0	410	0.93	0.05	1.95	0.05	28.4	5.5	45	0.71	6.0
S728452		1.48	0.005	0.06	7.42	5.5	580	1.76	0.09	1.95	0.16	100.5	28.6	203	1.98	50.5
S728453		1.64	0.001	0.05	7.54	3.8	650	1.67	0.10	2.03	0.15	83.1	21.0	100	1.99	48.7
S728454		1.22	0.005	0.03	6.84	3.8	530	1.50	0.07	2.08	0.12	91.2	21.4	216	1.35	29.6
S728455		1.50	0.001	0.04	7.17	3.8	550	1.57	0.08	2.31	0.18	82.7	25.3	185	1.61	46.4
S728456		1.43	0.001	0.03	7.27	3.3	520	1.25	0.07	2.93	0.16	83.1	25.5	152	1.25	40.7
S728457		1.56	0.002	0.04	7.18	4.3	560	1.69	0.08	2.06	0.15	89.1	24.3	202	1.66	36.3
S728458		1.38	0.001	0.05	6.75	3.3	530	1.32	0.09	2.28	0.14	82.0	22.3	164	1.63	35.9
S728459		1.42	0.001	0.05	6.70	3.5	500	1.27	0.08	2.11	0.13	94.1	20.5	184	1.48	30.4
S728460		1.03	0.008	0.05	7.16	16.7	570	1.45	0.09	1.94	0.15	92.5	25.2	219	2.19	37.1
S728461		1.47	0.003	0.03	6.88	4.0	500	1.22	0.09	2.57	0.18	86.7	24.3	136	1.52	66.9
S728462		1.36	0.003	0.05	6.98	4.8	500	1.14	0.09	2.63	0.16	76.9	27.3	146	1.67	67.3
S728463		1.31	0.004	0.04	6.67	3.6	510	1.41	0.09	1.93	0.12	93.3	19.8	188	1.90	29.9
S728464		1.31	0.002	0.05	6.83	3.7	520	1.44	0.07	2.03	0.13	103.0	24.5	250	1.71	39.7
S728465		1.35	0.006	0.05	6.90	3.5	500	1.28	0.08	2.44	0.15	86.3	26.0	199	1.71	48.0
S728466		1.38	0.002	0.05	7.04	4.4	570	1.62	0.09	2.02	0.15	109.0	25.8	240	1.89	40.9
S728467		1.82	0.002	0.07	7.18	4.9	590	1.76	0.10	1.93	0.22	111.0	27.3	223	2.38	51.1
S728468		1.56	0.001	0.06	7.16	3.8	570	1.61	0.09	2.01	0.14	110.0	24.8	228	1.77	39.9
S728469		1.36	0.005	0.04	7.05	3.9	470	1.19	0.07	3.15	0.21	77.8	26.1	122	1.16	42.7
S728470		1.36	0.022	0.04	6.65	13.3	590	1.21	0.08	2.53	0.18	91.8	22.4	230	0.99	74.3
S728471		0.06	0.001	0.07	9.26	10.3	150	0.87	0.36	0.32	0.04	52.1	7.8	115	6.87	32.9
S728472		1.45	0.002	0.07	7.04	5.1	570	1.60	0.09	2.01	0.19	99.5	30.4	261	2.18	51.3
S728473		1.70	0.002	0.05	6.60	4.8	480	1.29	0.08	2.57	0.17	82.4	29.0	213	1.21	59.0
S728474		1.54	0.005	0.08	7.04	5.1	570	1.69	0.09	1.93	0.18	101.5	27.0	236	2.18	48.0
S728475		1.42	0.002	0.07	7.13	7.7	580	1.65	0.10	2.09	0.25	104.5	34.7	301	2.17	52.3
S728476		1.59	0.001	0.08	7.45	5.0	610	1.76	0.10	2.02	0.21	106.5	27.3	210	2.37	49.0
S728477		1.28	0.001	0.02	7.07	3.2	530	1.53	0.08	1.88	0.12	96.9	18.8	162	1.66	25.7
S728478		1.77	0.003	0.08	7.33	5.8	580	1.81	0.10	2.08	0.21	100.5	28.5	227	2.30	53.2
S728479		1.39	0.008	0.08	7.32	6.7	580	1.78	0.11	2.04	0.18	93.4	29.4	241	2.29	52.2
S728480		1.31	0.004	0.08	7.12	15.6	520	1.33	0.11	2.17	0.23	79.3	33.4	242	2.31	74.6
S728481		1.21	0.005	0.06	7.28	5.4	560	1.63	0.09	2.20	0.17	98.4	28.4	230	1.90	55.7



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728442		5.25	17.55	0.15	4.7	0.064	1.52	44.9	19.8	1.68	914	0.58	2.19	40.9	77.9	1350
S728443		5.90	16.45	0.15	4.1	0.065	1.33	35.0	16.5	1.83	982	0.38	1.99	19.8	54.9	990
S728444		5.49	16.40	0.17	4.3	0.060	1.56	39.6	20.2	1.87	973	0.46	2.18	21.7	68.6	1100
S728445		4.75	16.45	0.15	4.2	0.048	1.80	38.8	20.9	1.51	965	0.48	2.15	15.0	54.9	1020
S728446		5.53	17.75	0.15	3.9	0.063	1.75	39.5	24.1	1.89	913	0.69	2.10	19.1	77.5	1120
S728447		4.68	16.85	0.16	4.6	0.058	1.77	41.5	20.9	1.46	817	0.51	2.23	23.3	50.9	1180
S728448		4.92	16.90	0.18	4.5	0.054	1.73	45.0	22.6	1.54	701	0.70	2.08	19.2	62.1	1120
S728449		5.65	18.60	0.17	4.5	0.065	1.70	49.7	26.9	1.93	883	0.71	2.01	24.9	102.5	1170
S728450		4.71	16.65	0.17	5.4	0.062	1.48	50.2	18.6	1.53	809	0.56	2.32	30.1	66.6	1470
S728451		1.69	12.95	0.11	1.8	0.020	1.27	13.8	8.0	0.54	318	0.09	2.77	3.2	19.1	300
S728452		5.56	18.25	0.19	4.8	0.066	1.68	51.4	27.0	1.80	1000	0.85	2.08	25.5	92.1	1300
S728453		4.55	17.00	0.18	4.1	0.050	1.92	42.0	24.5	1.50	785	0.46	2.20	15.0	50.1	1010
S728454		4.71	16.55	0.16	4.5	0.054	1.52	45.7	20.7	1.54	750	0.69	2.13	24.0	73.8	1180
S728455		5.20	16.70	0.15	4.4	0.053	1.59	39.3	22.7	1.70	975	0.67	2.10	21.5	69.4	1210
S728456		5.46	16.55	0.16	4.1	0.058	1.45	37.4	18.5	1.71	1020	0.48	2.21	19.2	60.1	1160
S728457		5.07	17.75	0.16	4.8	0.061	1.60	47.1	23.5	1.70	771	0.76	2.14	24.9	84.3	1220
S728458		4.70	17.95	0.12	4.6	0.057	1.61	39.2	17.3	1.60	841	0.65	2.11	21.0	65.2	1070
S728459		4.58	18.20	0.12	5.3	0.057	1.52	45.7	16.9	1.52	757	0.61	2.15	25.4	60.5	1070
S728460		5.35	20.5	0.13	5.1	0.063	1.78	44.2	23.8	1.93	777	0.76	2.02	29.7	80.6	1180
S728461		4.87	17.95	0.10	4.8	0.058	1.49	41.2	15.3	1.50	856	0.53	2.12	20.2	50.3	1110
S728462		6.12	19.35	0.11	4.2	0.061	1.43	36.8	18.2	1.79	908	0.62	1.93	19.3	56.1	990
S728463		4.76	18.55	0.12	4.6	0.055	1.52	47.1	20.1	1.57	632	0.75	2.03	29.4	59.0	1160
S728464		4.94	18.90	0.13	5.1	0.055	1.60	51.5	20.0	1.66	905	0.65	2.07	25.9	73.7	1120
S728465		5.24	18.75	0.12	4.7	0.060	1.50	42.2	19.8	1.90	844	0.53	2.01	22.1	74.7	1100
S728466		5.31	19.70	0.13	5.0	0.058	1.64	52.9	22.5	1.81	935	0.81	2.12	30.9	90.7	1230
S728467		5.59	20.5	0.14	5.3	0.061	1.73	55.8	25.0	1.93	669	0.88	1.98	30.1	102.0	1210
S728468		5.26	19.70	0.14	5.4	0.063	1.67	55.1	21.3	1.79	831	0.73	2.16	29.2	87.0	1140
S728469		5.19	20.1	0.12	4.6	0.072	1.36	34.9	14.9	1.43	953	0.55	2.06	21.3	43.8	1200
S728470		5.83	17.70	0.13	5.4	0.074	1.26	45.6	14.9	1.87	747	0.70	2.31	23.1	68.3	1140
S728471		6.65	26.6	0.09	5.3	0.087	0.50	23.9	33.3	0.31	493	2.48	0.14	23.2	44.7	530
S728472		5.52	19.65	0.12	4.8	0.059	1.68	47.7	26.4	2.14	1240	0.83	1.93	26.7	119.5	1160
S728473		4.92	17.85	0.13	4.9	0.053	1.40	38.2	16.4	1.95	858	0.52	2.08	19.8	98.3	1070
S728474		5.43	19.85	0.13	5.3	0.061	1.72	51.3	24.7	1.83	905	0.92	2.03	29.0	97.8	1170
S728475		6.19	20.0	0.12	5.0	0.065	1.64	49.4	24.3	2.33	1520	1.13	1.93	26.4	148.0	1130
S728476		5.67	20.9	0.14	5.5	0.064	1.88	52.9	25.9	1.86	937	1.03	2.10	28.2	96.3	1260
S728477		4.55	19.95	0.13	5.6	0.061	1.66	46.0	20.5	1.38	636	1.60	2.34	27.1	51.4	930
S728478		5.51	21.2	0.13	5.4	0.058	1.82	49.6	25.5	1.90	903	1.08	2.10	27.3	98.9	1240
S728479		5.90	20.7	0.12	5.1	0.066	1.80	45.4	25.4	1.92	1100	1.15	2.03	29.0	99.9	1150
S728480		5.56	18.85	0.12	4.3	0.059	1.69	37.4	22.9	2.00	917	0.91	1.83	16.8	127.5	970
S728481		5.29	20.6	0.13	5.2	0.066	1.65	45.9	23.3	1.90	885	0.75	2.15	26.0	96.9	1090



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728442		11.8	57.8	<0.002	0.01	0.46	23.0	1	1.6	281	2.35	<0.05	12.55	0.750	3.5
S728443		9.0	48.6	<0.002	0.01	0.62	28.2	2	1.4	319	1.06	<0.05	6.10	0.771	1.3
S728444		10.6	57.4	<0.002	0.01	0.46	22.9	1	1.4	280	1.15	<0.05	6.98	0.734	1.4
S728445		12.9	66.5	<0.002	0.01	0.40	19.1	1	1.4	318	0.86	<0.05	8.17	0.535	1.3
S728446		12.1	65.9	<0.002	0.01	0.51	21.8	1	1.5	279	1.11	<0.05	8.07	0.639	1.5
S728447		12.7	66.7	<0.002	0.01	0.34	18.7	2	1.4	322	1.04	<0.05	8.58	0.587	1.6
S728448		12.9	71.3	<0.002	0.01	0.37	18.6	1	1.5	291	1.07	<0.05	8.84	0.575	1.8
S728449		13.2	75.8	<0.002	0.01	0.34	20.7	1	1.6	233	1.37	<0.05	8.63	0.705	1.8
S728450		11.9	57.1	<0.002	<0.01	0.29	19.1	2	1.7	297	1.64	<0.05	7.73	0.813	1.9
S728451		7.4	49.7	<0.002	<0.01	0.06	6.3	<1	0.5	419	0.29	<0.05	2.86	0.200	0.4
S728452		14.2	75.3	<0.002	0.01	0.33	20.7	2	1.7	254	1.40	<0.05	9.14	0.730	1.8
S728453		13.4	74.5	<0.002	<0.01	0.28	18.4	1	1.4	322	0.87	<0.05	8.80	0.470	1.4
S728454		11.1	60.9	<0.002	<0.01	0.26	18.4	1	1.5	270	1.32	<0.05	7.48	0.724	1.7
S728455		11.2	64.8	<0.002	<0.01	0.33	20.8	1	1.4	270	1.15	<0.05	7.74	0.695	1.6
S728456		10.2	50.7	<0.002	<0.01	0.36	24.2	2	1.4	327	1.09	<0.05	6.52	0.712	1.3
S728457		12.2	67.8	<0.002	0.01	0.31	20.2	1	1.6	258	1.44	<0.05	8.64	0.741	1.8
S728458		11.5	57.8	<0.002	<0.01	0.40	17.2	1	1.6	275	1.15	<0.05	8.22	0.638	1.6
S728459		11.5	61.3	<0.002	<0.01	0.37	17.2	1	1.7	261	1.40	<0.05	8.29	0.737	1.7
S728460		13.4	71.7	<0.002	0.01	0.40	18.4	1	1.7	238	1.48	<0.05	10.10	0.704	2.2
S728461		11.2	54.0	<0.002	0.01	0.71	19.2	1	1.5	312	1.14	<0.05	8.07	0.635	1.6
S728462		10.6	52.8	<0.002	0.01	0.58	22.8	2	1.5	268	1.05	0.05	7.26	0.641	1.6
S728463		12.2	65.0	<0.002	0.01	0.34	16.6	1	1.6	245	1.28	<0.05	10.25	0.680	2.8
S728464		12.2	65.6	<0.002	<0.01	0.36	18.1	2	1.7	246	1.43	<0.05	9.49	0.746	1.9
S728465		10.7	55.5	<0.002	0.01	0.53	21.8	1	1.5	266	1.28	0.05	7.51	0.698	1.6
S728466		13.1	72.1	<0.002	0.01	0.40	18.9	2	1.7	243	1.57	<0.05	10.60	0.766	2.0
S728467		14.1	76.0	<0.002	0.01	0.43	19.5	2	1.8	229	1.54	<0.05	11.15	0.720	2.1
S728468		12.9	67.6	<0.002	0.01	0.37	18.8	2	1.8	247	1.59	<0.05	10.05	0.778	2.1
S728469		10.6	43.6	<0.002	<0.01	0.37	22.6	2	1.6	319	1.10	<0.05	6.67	0.799	1.5
S728470		10.9	41.2	<0.002	0.01	0.81	24.9	2	1.6	268	1.26	0.07	7.28	0.764	1.7
S728471		24.5	65.0	<0.002	0.05	0.72	14.5	4	4.1	49.9	1.62	0.06	16.95	1.035	3.0
S728472		13.1	73.3	<0.002	0.01	0.39	19.4	1	1.7	225	1.40	<0.05	10.10	0.699	1.9
S728473		11.3	45.6	<0.002	<0.01	0.44	20.7	2	1.5	292	1.10	<0.05	8.48	0.633	1.6
S728474		13.1	78.4	<0.002	0.01	0.40	19.6	1	1.8	235	1.57	<0.05	11.90	0.752	2.0
S728475		13.1	73.0	<0.002	0.01	0.47	20.5	1	1.7	226	1.43	<0.05	11.50	0.753	2.4
S728476		14.7	82.0	<0.002	0.01	0.42	19.4	1	1.8	253	1.52	<0.05	12.30	0.724	2.2
S728477		12.8	67.5	<0.002	0.01	0.32	17.3	2	1.7	278	1.36	<0.05	9.26	0.691	1.9
S728478		14.4	75.8	<0.002	<0.01	0.47	19.7	1	1.8	257	1.45	<0.05	10.25	0.713	1.9
S728479		13.8	73.7	<0.002	0.01	0.52	20.0	2	1.7	233	1.38	<0.05	9.91	0.732	1.7
S728480		14.4	60.6	<0.002	0.01	0.75	20.3	1	1.5	231	0.94	0.05	8.28	0.568	1.7
S728481		14.3	63.0	<0.002	0.01	0.44	20.6	1	1.8	263	1.46	<0.05	9.34	0.739	1.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728442		149	0.7	24.5	91	183.5
S728443		188	0.7	24.7	83	157.5
S728444		159	0.7	21.9	86	195.5
S728445		124	0.8	20.2	78	166.0
S728446		151	0.8	21.3	94	156.5
S728447		125	0.7	20.2	78	179.0
S728448		125	0.7	21.4	85	175.5
S728449		139	0.6	21.6	98	178.5
S728450		128	0.6	24.2	78	218
S728451		44	0.1	7.4	21	68.6
S728452		140	0.6	23.9	101	190.5
S728453		119	0.7	19.6	80	159.5
S728454		129	0.6	21.3	80	179.5
S728455		144	0.6	21.7	87	176.5
S728456		164	0.6	22.5	82	164.5
S728457		133	0.6	22.8	91	191.5
S728458		130	0.7	20.1	78	167.0
S728459		129	0.7	21.4	76	187.5
S728460		144	0.7	20.9	107	182.5
S728461		142	0.7	21.5	83	171.0
S728462		160	0.7	21.1	89	147.0
S728463		122	0.6	20.2	87	164.0
S728464		135	0.6	22.6	85	187.5
S728465		152	0.8	21.8	87	170.5
S728466		138	0.7	22.3	97	190.5
S728467		146	0.7	23.5	113	192.5
S728468		139	0.7	23.4	91	191.5
S728469		167	0.8	25.7	99	160.0
S728470		165	0.6	25.5	105	187.0
S728471		157	2.4	12.4	47	177.0
S728472		141	0.7	21.4	107	178.5
S728473		141	0.6	21.4	83	176.0
S728474		140	0.7	23.1	104	194.5
S728475		149	0.7	23.1	113	187.0
S728476		144	0.7	23.9	111	203
S728477		124	0.6	20.0	74	202
S728478		142	0.8	23.6	107	192.5
S728479		148	0.8	23.3	107	188.5
S728480		142	0.8	19.8	119	151.0
S728481		145	0.7	23.5	93	185.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728482		1.76	0.001	0.09	7.05	5.8	580	1.67	0.10	1.92	0.20	97.8	29.9	223	2.41	57.3
S728483		1.29	0.001	0.07	7.11	5.4	580	1.72	0.10	2.24	0.25	105.0	30.1	229	2.29	52.3
S728484		1.03	0.001	0.06	6.64	4.9	480	1.49	0.07	2.39	0.22	89.9	29.3	230	1.45	66.2
S728485		1.25	0.002	0.07	7.15	4.7	570	1.60	0.10	1.93	0.15	88.9	23.4	203	2.28	46.4
S728486		1.34	0.001	0.07	7.16	5.6	560	1.58	0.10	1.87	0.20	89.0	25.5	171	2.13	49.7
S728487		1.20	0.003	0.08	7.04	5.5	560	1.61	0.10	1.93	0.25	99.4	30.8	220	2.09	48.7
S728488		1.31	0.001	0.09	7.27	7.0	590	1.73	0.11	1.90	0.25	102.0	30.9	239	2.47	58.8
S728489		1.16	0.005	0.07	7.27	5.2	570	1.66	0.11	1.85	0.16	87.5	23.6	214	2.37	51.5
S728490		1.35	0.002	0.07	7.01	4.4	580	1.54	0.11	2.00	0.18	86.6	25.7	244	2.03	46.5
S728491		0.06	0.001	0.05	6.15	1.1	400	0.93	0.05	1.77	0.03	16.20	5.9	42	0.76	6.9
S728492		1.65	0.004	0.05	6.84	2.6	510	1.38	0.08	2.48	0.14	78.2	23.7	188	1.43	35.7
S728493		1.39	<0.001	0.10	7.18	4.4	610	1.83	0.11	2.05	0.22	98.7	30.9	256	2.29	50.2
S728494		1.30	0.003	0.07	7.17	4.4	590	1.59	0.11	2.04	0.21	79.4	27.8	157	2.11	69.8
S728495		1.37	0.002	0.07	6.94	3.4	550	1.60	0.10	2.08	0.12	79.2	27.2	194	2.03	41.1
S728496		1.80	0.004	0.07	6.95	5.3	580	1.99	0.10	2.11	0.21	111.5	26.8	211	1.92	44.2
S728497		1.62	0.003	0.09	7.06	4.2	580	1.61	0.09	2.16	0.17	89.1	28.8	226	2.09	52.9
S728498		1.62	0.002	0.08	6.91	4.8	560	1.86	0.09	2.09	0.15	107.0	25.6	199	1.93	40.3
S728499		1.27	0.003	0.07	6.80	2.7	540	1.43	0.09	2.16	0.17	89.8	22.7	160	1.70	40.3
S728500		1.65	0.002	0.08	7.01	5.1	580	1.72	0.11	2.07	0.22	90.2	28.3	211	2.25	52.2
S728501		1.54	0.001	0.05	7.06	3.0	510	1.31	0.08	2.87	0.18	62.7	33.1	159	2.07	94.9
S728502		1.42	0.003	0.08	6.85	4.6	550	1.75	0.10	2.11	0.17	89.4	25.6	245	1.93	46.8
S728503		1.33	0.002	0.05	7.20	3.2	520	1.59	0.08	2.10	0.12	74.7	26.2	200	2.09	56.4
S728504		1.56	0.002	0.08	7.45	5.1	610	1.80	0.11	2.06	0.23	91.1	31.0	233	2.21	54.9
S728505		1.45	0.002	0.03	7.37	3.2	520	1.47	0.08	2.90	0.14	71.2	26.7	172	1.57	46.9
S728506		1.63	0.003	0.05	7.17	3.1	540	1.42	0.09	2.35	0.14	78.7	24.7	227	1.47	40.4
S728507		1.25	0.005	0.04	7.06	2.6	570	1.74	0.10	2.34	0.13	85.5	18.3	157	1.34	29.1
S728508		1.32	0.002	0.06	7.53	4.6	600	1.67	0.11	2.10	0.16	88.5	26.5	179	2.05	49.4
S728509		1.44	0.001	0.04	7.34	3.7	580	1.69	0.10	1.95	0.10	91.0	23.9	174	2.09	31.7
S728510		1.48	0.006	0.08	6.86	12.3	560	1.49	0.12	1.96	0.24	89.1	22.9	195	1.49	56.5
S728511		0.05	0.002	0.04	9.42	10.7	160	0.90	0.35	0.31	0.04	51.5	8.1	117	6.56	32.7
S728512		1.53	0.001	0.08	7.28	4.0	610	1.95	0.12	1.86	0.21	97.9	23.4	151	2.36	40.8
S728513		1.49	0.004	0.08	7.29	5.9	590	1.80	0.10	1.84	0.20	79.1	27.2	190	2.34	50.6
S728514		1.39	0.002	0.06	7.43	5.5	610	1.94	0.10	1.91	0.22	90.9	27.7	194	2.27	46.2
S728515		1.26	0.003	0.04	7.42	4.7	580	1.92	0.10	1.76	0.11	82.5	25.4	226	2.25	46.5
S728516		1.33	0.003	0.06	7.35	3.3	570	1.54	0.09	2.20	0.14	86.4	21.6	189	1.59	31.1
S728517		1.65	0.002	0.08	7.32	3.9	590	1.67	0.10	2.05	0.22	94.1	25.2	177	2.21	42.6
S728518		1.38	0.001	0.03	6.97	2.6	550	1.60	0.07	2.14	0.11	84.3	16.4	148	1.54	22.2
S728519		1.45	0.002	0.06	7.68	4.0	740	1.83	0.09	1.99	0.14	91.2	22.3	210	2.29	46.1
S728520		1.52	0.002	0.03	7.32	3.4	570	1.59	0.08	1.99	0.10	91.0	26.0	180	1.89	28.9
S728521		1.42	0.003	0.05	7.33	2.7	450	1.17	0.07	3.52	0.13	80.2	24.0	210	1.14	57.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728482		5.85	20.2	0.15	5.1	0.069	1.79	47.7	25.7	2.01	980	1.11	1.94	28.0	112.5	1240
S728483		5.56	20.2	0.12	5.4	0.064	1.80	51.1	25.7	2.02	986	1.79	1.95	26.0	110.5	1180
S728484		5.27	18.85	0.12	4.7	0.069	1.39	41.3	19.1	1.92	936	0.58	2.07	32.3	92.1	1200
S728485		5.39	19.95	0.14	5.1	0.061	1.77	47.0	24.6	1.86	654	1.01	2.01	27.1	86.7	1140
S728486		5.28	20.4	0.14	4.9	0.062	1.77	44.3	23.0	1.72	1010	0.84	2.02	24.6	81.9	1110
S728487		5.37	20.1	0.12	4.6	0.059	1.74	44.6	23.8	1.94	1020	0.91	1.93	22.7	101.5	1070
S728488		6.01	20.6	0.13	5.5	0.068	1.81	50.2	26.0	2.04	1160	1.25	1.92	25.5	133.5	1220
S728489		5.52	20.8	0.14	5.3	0.062	1.73	47.2	25.2	1.83	858	0.88	1.97	23.6	86.1	1090
S728490		5.29	19.60	0.16	5.4	0.063	1.72	41.6	27.8	1.93	809	0.79	1.92	24.7	89.8	1100
S728491		1.40	14.45	0.14	1.1	0.017	1.21	7.7	8.3	0.54	247	0.05	2.72	2.5	21.0	210
S728492		5.26	17.60	0.15	4.6	0.055	1.42	35.0	20.6	1.73	877	0.51	2.07	22.8	60.4	1190
S728493		5.72	20.6	0.19	5.5	0.065	1.76	47.8	29.0	1.97	1220	0.98	1.96	33.2	105.5	1180
S728494		5.68	18.95	0.18	3.9	0.058	1.67	37.1	24.2	1.88	1180	0.64	1.99	18.0	74.3	1200
S728495		5.25	19.75	0.17	4.1	0.074	1.57	36.9	26.5	1.81	903	0.65	1.96	23.2	71.7	1000
S728496		5.28	19.55	0.23	5.3	0.060	1.67	53.7	26.2	1.81	933	0.77	2.02	31.1	89.2	1240
S728497		5.53	20.1	0.19	4.9	0.065	1.67	43.0	27.4	1.96	923	0.87	1.93	25.6	88.5	1140
S728498		5.13	19.80	0.19	5.2	0.066	1.62	54.1	26.6	1.75	909	0.80	2.11	35.1	83.5	1310
S728499		4.84	18.65	0.21	4.6	0.056	1.62	41.3	22.5	1.53	944	0.51	2.10	24.5	61.0	1180
S728500		5.66	20.5	0.18	5.6	0.068	1.70	46.4	28.1	1.95	1070	0.86	1.93	26.5	91.3	1310
S728501		6.56	19.30	0.17	3.6	0.075	1.39	28.9	22.9	2.05	1240	0.44	1.94	17.5	60.6	1100
S728502		5.39	19.10	0.18	4.9	0.066	1.56	44.6	25.9	1.85	772	0.83	1.95	27.0	90.5	1140
S728503		5.67	19.40	0.17	4.4	0.069	1.57	37.5	26.5	1.84	955	0.52	1.82	21.3	66.1	910
S728504		5.78	20.6	0.15	5.0	0.066	1.81	42.1	29.4	2.07	1020	0.89	1.94	23.3	96.3	1170
S728505		5.65	18.65	0.13	4.2	0.067	1.45	35.8	19.6	1.88	959	0.47	2.14	22.0	61.4	1140
S728506		5.13	18.60	0.15	4.8	0.062	1.46	40.0	20.5	1.70	868	0.61	2.19	27.2	70.4	1140
S728507		4.35	18.60	0.15	5.8	0.060	1.62	42.9	18.3	1.28	722	0.57	2.31	22.8	50.9	1170
S728508		5.30	20.7	0.16	4.8	0.063	1.71	46.4	25.9	1.71	907	0.82	2.17	26.4	85.2	1280
S728509		5.08	20.1	0.15	5.0	0.059	1.65	42.5	26.1	1.56	820	0.76	2.21	25.8	70.3	1080
S728510		5.65	17.85	0.15	4.9	0.061	1.56	42.6	19.7	1.40	808	1.66	2.14	23.2	69.3	1140
S728511		6.56	26.6	0.11	5.1	0.088	0.48	25.5	35.5	0.31	492	2.48	0.13	24.3	46.7	510
S728512		4.85	20.1	0.16	4.9	0.055	1.83	50.7	28.3	1.52	814	1.14	2.07	22.3	74.4	1040
S728513		5.13	19.50	0.14	4.3	0.055	1.84	39.2	29.1	1.77	867	1.52	1.92	21.5	94.9	1130
S728514		5.17	19.85	0.15	5.0	0.056	1.82	44.3	28.5	1.68	927	1.14	2.05	22.6	96.3	1210
S728515		5.27	20.1	0.16	4.6	0.060	1.74	43.5	29.5	1.78	842	0.88	1.95	24.3	80.6	1030
S728516		4.95	20.3	0.11	4.9	0.062	1.69	39.3	21.1	1.83	825	0.67	2.26	21.9	71.1	1100
S728517		5.19	22.4	0.10	4.8	0.068	1.78	43.1	24.5	1.73	910	1.31	2.22	29.1	84.9	1240
S728518		4.32	20.1	0.11	5.3	0.055	1.63	39.9	19.8	1.38	657	0.80	2.34	26.1	49.8	1070
S728519		5.38	21.6	0.11	5.1	0.068	1.80	43.8	25.1	1.84	769	1.02	2.22	28.4	85.2	1070
S728520		5.35	20.7	0.10	5.3	0.060	1.69	42.0	22.3	1.62	805	0.84	2.29	26.9	65.2	1100
S728521		4.94	20.3	0.09	4.6	0.065	1.27	36.2	16.6	1.84	853	0.60	1.99	20.7	75.2	980



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728482		14.5	71.2	<0.002	0.01	0.47	18.9	1	1.8	222	1.52	<0.05	10.15	0.725	2.3
S728483		14.5	75.4	<0.002	0.01	0.45	18.6	1	1.8	233	1.40	<0.05	10.35	0.698	1.9
S728484		10.9	50.0	<0.002	<0.01	0.44	21.1	1	1.6	257	1.71	<0.05	14.95	0.788	1.9
S728485		13.4	78.3	<0.002	0.01	0.41	18.4	2	1.7	235	1.45	<0.05	10.75	0.703	1.9
S728486		12.9	69.6	<0.002	0.01	0.52	20.5	1	1.7	245	1.23	<0.05	9.45	0.653	2.1
S728487		13.1	68.3	<0.002	0.01	0.48	20.0	1	1.7	220	1.26	<0.05	9.47	0.665	1.6
S728488		13.9	83.4	<0.002	0.01	0.46	20.9	2	1.8	219	1.40	0.05	10.75	0.704	1.8
S728489		12.7	75.3	<0.002	0.01	0.50	21.0	1	1.7	227	1.32	<0.05	10.30	0.675	2.3
S728490		12.5	66.6	<0.002	<0.01	0.41	19.3	1	1.7	222	1.42	0.05	9.25	0.692	1.9
S728491		6.4	49.1	<0.002	<0.01	0.05	6.0	1	0.5	375	0.17	<0.05	1.22	0.142	0.3
S728492		9.6	53.5	<0.002	<0.01	0.59	23.8	1	1.6	297	1.28	<0.05	6.23	0.711	1.5
S728493		13.2	80.9	<0.002	0.01	0.37	19.8	1	1.9	227	1.57	0.05	10.15	0.731	2.3
S728494		10.8	66.2	<0.002	0.01	0.77	21.8	1	1.6	286	1.02	<0.05	6.86	0.623	1.6
S728495		11.4	69.3	<0.002	0.01	0.41	20.0	1	1.7	247	1.27	0.05	7.52	0.678	1.7
S728496		13.3	69.7	<0.002	0.01	0.40	18.5	1	1.7	238	1.61	<0.05	9.32	0.735	2.0
S728497		12.3	71.5	<0.002	<0.01	0.46	20.6	2	1.7	231	1.52	0.06	8.84	0.712	2.1
S728498		13.5	71.6	<0.002	0.01	0.32	18.4	2	1.9	252	1.55	<0.05	9.61	0.737	2.0
S728499		11.6	64.9	<0.002	<0.01	0.40	18.0	1	1.6	272	1.34	<0.05	7.75	0.661	1.7
S728500		13.7	78.9	<0.002	0.01	0.39	19.4	2	1.7	237	1.45	<0.05	11.15	0.709	2.2
S728501		9.0	46.2	<0.002	0.01	0.55	30.2	1	1.4	269	1.03	<0.05	5.42	0.736	1.3
S728502		12.1	69.5	<0.002	0.01	0.40	19.4	2	1.7	228	1.57	0.05	8.69	0.736	1.9
S728503		10.2	67.1	<0.002	0.01	0.46	24.2	1	1.6	232	1.24	<0.05	6.73	0.726	1.5
S728504		13.5	73.7	0.002	0.01	0.48	20.5	2	1.7	222	1.36	0.05	10.35	0.704	1.8
S728505		10.4	52.8	<0.002	<0.01	0.36	26.7	1	1.5	295	1.24	<0.05	7.01	0.770	1.6
S728506		11.3	56.6	<0.002	0.01	0.31	21.8	1	1.5	271	1.49	<0.05	8.14	0.787	1.9
S728507		13.0	58.8	<0.002	<0.01	0.23	17.4	1	1.6	333	1.27	<0.05	8.81	0.692	1.9
S728508		14.8	74.0	<0.002	0.01	0.28	19.5	1	1.7	275	1.40	<0.05	10.50	0.710	2.3
S728509		16.0	74.6	<0.002	0.01	0.23	17.5	1	1.6	278	1.32	<0.05	9.92	0.699	2.3
S728510		15.4	59.6	<0.002	0.01	0.62	17.4	1	1.6	273	1.32	0.06	8.95	0.659	2.2
S728511		25.2	65.6	<0.002	0.05	0.60	14.9	3	4.1	50.5	1.68	0.05	17.40	1.050	3.2
S728512		16.5	84.4	<0.002	0.01	0.27	16.4	1	1.6	261	1.26	0.05	12.85	0.632	2.5
S728513		16.5	79.3	0.002	0.01	0.38	18.3	1	1.5	228	1.16	<0.05	9.09	0.590	1.9
S728514		15.3	78.6	<0.002	0.01	0.35	18.5	1	1.5	242	1.25	<0.05	9.62	0.643	2.0
S728515		14.1	76.7	<0.002	0.01	0.30	19.1	1	1.6	229	1.30	<0.05	9.85	0.644	2.1
S728516		13.6	64.3	<0.002	0.01	0.37	18.0	1	1.7	287	1.37	<0.05	8.29	0.657	2.0
S728517		15.2	79.7	<0.002	<0.01	0.40	18.1	1	1.9	258	1.45	<0.05	9.77	0.692	2.2
S728518		13.3	65.0	<0.002	0.01	0.28	15.7	1	1.8	294	1.43	<0.05	8.64	0.708	1.9
S728519		14.3	78.6	<0.002	0.01	0.37	17.8	2	10.5	263	1.54	<0.05	9.59	0.742	2.0
S728520		14.1	68.0	<0.002	<0.01	0.29	15.9	2	3.9	282	1.48	<0.05	8.53	0.712	2.1
S728521		10.7	46.0	<0.002	<0.01	0.47	23.7	1	1.5	302	1.22	<0.05	7.56	0.657	2.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S728482		143	0.7	22.2	116	183.5
S728483		140	0.7	22.0	107	186.0
S728484		152	0.7	23.4	88	172.5
S728485		143	0.7	21.5	105	180.5
S728486		140	0.8	22.0	100	175.0
S728487		139	0.8	21.8	100	183.5
S728488		148	0.8	23.4	112	202
S728489		146	0.7	22.6	106	188.5
S728490		144	0.8	21.0	101	195.0
S728491		37	0.2	5.8	21	41.2
S728492		164	0.8	20.3	82	170.0
S728493		147	0.8	23.1	112	230
S728494		164	1.0	20.0	95	148.0
S728495		148	0.7	19.5	94	170.0
S728496		140	0.7	22.3	99	195.0
S728497		151	0.8	22.6	102	186.5
S728498		139	0.7	22.2	96	201
S728499		135	0.8	20.7	82	173.0
S728500		148	0.7	22.6	109	212
S728501		199	0.6	22.3	104	135.0
S728502		145	0.8	22.1	97	187.5
S728503		171	0.8	22.8	94	161.0
S728504		157	0.8	21.9	109	186.0
S728505		173	0.7	23.4	89	147.5
S728506		151	0.7	23.5	84	171.5
S728507		119	0.7	22.0	75	205
S728508		140	0.7	22.7	102	177.0
S728509		133	0.7	20.0	89	188.0
S728510		124	0.6	21.7	113	180.0
S728511		160	2.4	14.4	47	181.5
S728512		126	0.6	21.4	104	180.0
S728513		130	0.6	19.9	105	160.5
S728514		133	0.6	21.2	105	182.0
S728515		136	0.6	20.2	99	177.5
S728516		132	0.7	21.4	85	174.0
S728517		135	0.7	24.1	100	173.5
S728518		120	0.6	20.0	78	186.0
S728519		141	0.7	20.4	102	187.5
S728520		128	0.7	21.0	90	179.5
S728521		156	0.6	25.0	70	158.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728522		1.35	0.003	0.05	6.86	4.6	470	1.23	0.09	2.25	0.12	82.9	30.4	383	1.67	57.2
S728523		1.42	0.002	0.08	7.30	4.2	600	1.52	0.09	2.08	0.27	89.7	25.2	214	2.30	51.2
S728524		1.42	0.002	0.07	7.72	5.6	630	1.58	0.11	1.80	0.19	83.0	23.5	203	2.53	50.9
S728525		1.35	0.004	0.07	7.51	5.6	610	2.02	0.11	1.88	0.21	90.8	31.5	237	2.43	55.1
S728526		1.52	0.002	0.07	7.35	4.2	600	1.91	0.09	2.06	0.18	86.0	26.6	210	2.01	43.8
S728527		1.63	0.004	0.03	7.17	8.3	520	1.74	0.09	2.11	0.19	79.6	31.2	259	1.78	53.4
S728528		1.39	0.005	0.03	7.02	5.3	580	1.89	0.09	2.02	0.16	97.0	28.4	187	2.12	35.9
S728529		1.29	0.003	0.06	7.21	8.3	540	1.59	0.10	1.90	0.18	77.2	27.5	219	1.95	52.0
S728530		1.45	0.002	0.04	7.32	6.6	530	1.71	0.09	1.93	0.18	74.2	30.3	231	2.37	62.4
S728531		0.18	0.016	0.03	6.28	0.6	410	1.14	0.04	1.90	0.03	23.7	6.2	40	0.71	7.9
S728532		1.15	0.003	0.05	7.49	11.9	580	1.80	0.12	1.94	0.13	73.6	29.3	201	3.00	79.1
S728533		1.34	0.003	0.03	6.93	4.2	460	1.43	0.07	2.85	0.12	66.9	22.7	142	1.58	43.7
S728534		1.26	0.004	0.04	7.27	5.4	550	1.77	0.08	1.84	0.07	72.5	25.6	210	2.03	39.8
S728535		1.42	0.003	0.03	7.48	6.7	580	1.55	0.09	2.42	0.15	68.1	29.8	179	2.02	70.9
S728536		1.29	0.025	0.04	7.00	4.2	520	1.56	0.08	2.37	0.12	74.4	23.0	187	1.50	46.1
S728537		1.54	0.004	0.04	7.27	6.1	480	1.38	0.11	2.84	0.17	73.7	29.5	113	1.72	81.0
S728538		1.37	0.003	0.06	7.28	4.6	530	1.44	0.13	2.75	0.20	73.5	31.9	136	2.52	90.0
S728539		1.48	0.003	0.04	7.03	4.9	520	1.68	0.12	2.15	0.16	81.0	27.2	165	2.20	52.7
S728540		1.30	0.032	0.06	7.09	5.1	540	1.74	0.11	2.11	0.16	77.8	26.6	171	2.19	54.2
S728541		1.35	0.004	0.04	6.97	3.7	510	1.55	0.09	2.20	0.17	79.2	24.6	179	1.72	43.0
S728542		1.44	0.003	0.04	6.91	3.6	500	1.40	0.08	2.44	0.13	77.1	20.2	199	1.59	39.0
S728543		1.43	0.015	0.05	7.02	4.2	540	1.82	0.11	2.21	0.17	86.5	24.3	191	1.90	46.0
S728544		1.29	0.006	0.06	6.58	4.2	490	1.49	0.09	2.38	0.17	101.0	23.2	189	1.45	32.7
S728545		1.87	0.002	0.07	7.06	5.1	560	1.67	0.11	1.98	0.17	85.7	25.6	183	2.19	47.0
S728546		1.53	0.002	0.06	6.84	4.7	530	1.79	0.10	2.07	0.14	92.0	21.9	175	1.74	32.2
S728547		1.22	0.002	0.02	6.84	3.3	510	1.73	0.09	1.97	0.09	91.7	20.2	182	1.66	28.6
S728548		1.20	0.002	0.02	7.08	3.8	550	1.76	0.09	1.90	0.12	91.2	21.5	187	1.76	36.1
S728549		1.71	0.003	0.07	7.62	6.2	590	1.74	0.09	2.43	0.20	89.9	25.4	135	1.66	65.3
S728550		1.34	0.003	0.02	6.92	3.3	540	1.45	0.08	2.46	0.10	93.0	15.2	141	1.18	32.9
S728551		0.05	0.025	0.15	8.17	15.3	190	0.86	0.37	0.20	0.03	41.2	32.7	557	4.36	384
S728552		1.46	0.002	0.03	6.78	2.8	500	1.45	0.07	2.49	0.16	97.3	16.1	131	1.02	23.5
S728553		1.44	0.003	0.03	6.82	4.7	550	1.59	0.10	2.18	0.13	97.9	16.8	109	1.56	30.8
S728554		1.43	0.002	0.05	6.96	4.2	530	1.66	0.11	2.34	0.14	93.5	19.1	93	1.67	32.5
S728555		1.40	0.001	0.03	6.91	3.3	550	1.54	0.09	2.17	0.20	86.4	19.9	138	1.52	35.1
S728556		1.49	0.002	0.05	7.01	3.3	520	1.61	0.10	2.40	0.14	101.0	18.5	135	1.41	32.7
S728557		1.42	0.003	0.05	7.10	3.9	580	1.76	0.11	2.22	0.17	110.5	18.5	112	1.73	32.2
S728558		1.53	0.003	0.07	7.09	4.9	580	1.83	0.13	1.96	0.16	143.5	22.8	122	2.16	40.5
S728559		1.66	0.003	0.07	7.32	4.8	620	1.93	0.12	1.87	0.20	101.0	21.4	101	2.49	51.6
S728560		1.42	0.002	0.06	6.96	3.6	550	1.93	0.09	2.13	0.18	105.5	20.1	108	1.75	33.2
S728561		1.45	0.002	0.11	8.05	7.7	470	1.49	0.10	1.34	0.33	76.3	27.6	87	1.49	70.6



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728522		5.04	18.05	0.07	4.1	0.054	1.45	35.3	18.2	1.92	1100	0.71	1.79	19.2	187.0	810
S728523		5.66	20.3	0.11	4.7	0.061	1.77	41.3	23.8	1.97	1080	1.32	1.96	22.4	97.1	1090
S728524		5.78	21.9	0.09	5.0	0.063	1.85	43.8	24.6	1.85	884	1.08	2.02	24.2	91.8	1130
S728525		5.80	21.0	0.08	4.5	0.060	1.85	44.6	30.7	1.94	794	1.05	1.97	23.6	108.0	1100
S728526		5.16	19.90	0.08	4.7	0.058	1.79	43.2	28.1	1.74	829	0.88	2.11	24.8	87.7	1210
S728527		5.74	19.60	0.08	4.5	0.056	1.52	39.2	26.4	2.19	990	0.87	1.94	27.9	112.5	1140
S728528		5.22	20.4	0.10	4.8	0.059	1.61	47.9	31.9	1.88	934	0.74	1.98	27.0	80.1	1350
S728529		5.40	19.70	0.11	4.6	0.058	1.55	38.4	26.0	1.94	989	0.72	1.90	19.5	93.6	1080
S728530		5.47	20.1	0.08	4.0	0.067	1.57	35.7	28.9	1.98	929	0.60	1.78	19.2	88.0	1070
S728531		1.53	14.60	<0.05	1.4	0.022	1.23	10.7	8.4	0.51	295	0.06	2.67	3.1	18.7	280
S728532		5.85	20.7	0.09	4.0	0.065	1.65	37.9	30.0	1.95	848	0.74	1.72	16.6	88.5	960
S728533		5.14	18.05	0.08	4.0	0.061	1.28	32.4	17.8	1.50	827	0.41	2.03	18.7	47.7	980
S728534		5.16	19.60	0.08	4.0	0.056	1.62	35.5	28.8	1.81	793	0.65	1.98	20.4	72.5	900
S728535		6.05	19.55	0.08	3.5	0.062	1.61	32.8	27.6	1.90	962	0.58	1.80	18.4	73.6	1070
S728536		5.21	18.50	0.08	4.1	0.056	1.44	37.7	22.4	1.63	791	0.53	1.98	22.5	60.2	1050
S728537		5.94	21.4	0.14	4.2	0.073	1.33	35.6	22.8	1.65	968	0.46	1.95	16.9	51.7	970
S728538		6.44	22.1	0.10	3.9	0.088	1.45	34.8	27.7	1.85	1140	0.52	1.89	18.8	62.1	1030
S728539		5.40	21.5	0.12	4.5	0.081	1.45	40.5	29.2	1.70	792	0.72	2.00	22.5	72.7	950
S728540		5.42	21.0	0.11	4.6	0.073	1.59	38.7	27.7	1.71	879	0.92	1.96	21.7	75.9	990
S728541		5.26	18.80	0.10	4.0	0.073	1.50	37.9	23.6	1.70	896	0.69	2.00	20.9	69.7	1080
S728542		5.06	17.95	0.09	4.2	0.060	1.44	38.6	21.6	1.63	790	0.52	2.09	22.4	59.2	1070
S728543		5.09	22.4	0.14	5.5	0.074	1.53	42.8	28.3	1.68	782	0.78	2.10	26.8	72.7	1080
S728544		4.56	20.5	0.16	5.8	0.074	1.41	48.0	22.7	1.50	822	0.64	2.19	26.8	73.4	1190
S728545		5.17	20.5	0.12	4.8	0.059	1.70	43.6	28.1	1.74	804	1.20	2.00	22.5	83.3	1120
S728546		4.81	21.8	0.14	5.2	0.073	1.50	45.1	25.9	1.54	733	0.80	2.15	29.7	69.1	1060
S728547		4.58	20.9	0.14	5.5	0.064	1.51	44.2	25.0	1.45	683	0.69	2.20	46.9	60.2	960
S728548		5.12	19.65	0.12	4.6	0.060	1.58	43.2	25.7	1.64	797	0.69	2.12	25.0	76.5	1040
S728549		5.42	21.6	0.13	5.5	0.063	1.54	43.7	20.1	1.53	922	0.87	2.34	23.2	56.7	1240
S728550		4.33	19.05	0.16	6.1	0.064	1.44	46.1	16.2	1.21	666	0.48	2.33	36.2	41.4	1120
S728551		14.55	25.0	<0.05	4.6	0.109	0.41	19.8	23.6	0.23	505	2.83	0.10	16.4	232	440
S728552		4.45	18.65	0.13	6.1	0.059	1.40	47.1	16.7	1.29	706	0.51	2.34	32.0	42.7	1410
S728553		4.08	20.3	0.17	5.9	0.061	1.53	48.6	19.6	1.17	585	0.85	2.31	26.9	46.1	1250
S728554		4.42	20.9	0.19	5.5	0.063	1.55	45.5	20.6	1.29	751	0.58	2.21	27.9	41.6	1210
S728555		4.22	19.10	0.17	5.8	0.058	1.60	40.8	19.5	1.33	712	0.56	2.30	25.5	64.8	1200
S728556		4.64	20.7	0.18	5.5	0.068	1.50	49.4	19.9	1.34	771	0.71	2.36	34.7	45.7	1290
S728557		4.53	20.3	0.19	5.3	0.066	1.62	53.0	22.5	1.31	782	0.66	2.29	38.0	46.4	1370
S728558		4.85	22.5	0.21	5.4	0.069	1.68	76.4	27.2	1.48	871	0.93	2.19	73.3	64.3	1490
S728559		4.84	22.9	0.20	5.3	0.061	1.85	50.3	27.2	1.37	908	0.94	2.10	25.1	57.1	1130
S728560		4.65	21.9	0.18	5.6	0.067	1.62	50.9	23.5	1.34	795	0.88	2.28	36.9	50.5	1350
S728561		6.78	22.1	0.12	4.6	0.079	1.20	35.8	23.4	1.59	1840	0.92	1.72	23.3	39.8	1340



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728522		11.6	60.7	<0.002	0.01	0.34	18.6	1	1.6	197.0	1.11	<0.05	8.26	0.545	1.6
S728523		13.9	72.8	<0.002	0.01	0.43	17.3	1	2.3	228	1.35	<0.05	10.55	0.676	1.8
S728524		14.6	82.1	<0.002	0.01	0.83	19.2	1	2.0	234	1.35	0.05	9.62	0.664	1.9
S728525		14.4	82.0	<0.002	0.01	0.41	19.7	1	1.7	224	1.38	<0.05	9.63	0.674	2.0
S728526		14.1	75.6	<0.002	<0.01	0.35	19.1	1	1.7	253	1.44	<0.05	8.76	0.697	1.9
S728527		12.2	62.6	<0.002	<0.01	0.59	22.1	1	1.8	212	1.47	<0.05	8.12	0.766	1.9
S728528		13.7	70.2	<0.002	0.01	0.37	19.4	1	1.6	241	1.45	<0.05	9.21	0.694	2.2
S728529		12.1	67.6	<0.002	<0.01	0.61	21.2	1	1.5	226	1.14	<0.05	7.82	0.665	1.8
S728530		12.1	67.4	<0.002	0.02	0.63	23.8	1	1.6	220	1.09	<0.05	8.11	0.639	1.7
S728531		7.1	47.3	<0.002	<0.01	0.09	7.0	<1	0.5	384	0.24	<0.05	1.40	0.174	0.3
S728532		13.1	68.9	<0.002	0.02	0.67	22.2	1	1.6	235	1.03	<0.05	8.83	0.582	1.9
S728533		9.0	46.3	<0.002	<0.01	0.57	27.5	1	1.5	296	1.09	<0.05	5.99	0.721	1.3
S728534		12.7	69.9	<0.002	0.01	0.44	20.3	1	1.6	231	1.24	<0.05	8.17	0.633	1.7
S728535		11.4	65.7	<0.002	0.01	0.51	23.0	1	1.5	245	1.10	<0.05	7.45	0.643	1.5
S728536		11.1	57.8	<0.002	0.01	0.40	22.1	1	1.5	257	1.26	<0.05	7.81	0.723	1.6
S728537		11.4	58.1	<0.002	<0.01	0.57	29.5	2	1.6	346	0.99	<0.05	7.00	0.674	1.5
S728538		11.3	62.0	0.003	0.01	0.69	29.2	2	1.6	310	1.11	<0.05	7.78	0.663	1.6
S728539		12.6	68.8	<0.002	<0.01	0.66	23.5	2	1.8	259	1.27	0.05	8.87	0.658	2.0
S728540		13.2	68.9	<0.002	<0.01	0.47	22.4	1	1.7	250	1.28	<0.05	8.81	0.638	1.8
S728541		10.7	58.5	<0.002	0.01	0.40	20.1	1	1.5	242	1.23	<0.05	8.65	0.706	1.5
S728542		10.1	53.1	0.002	<0.01	0.44	19.9	1	1.5	264	1.19	<0.05	7.23	0.727	1.5
S728543		12.9	70.0	0.002	0.01	0.42	22.1	2	1.9	258	1.61	0.06	8.89	0.716	2.0
S728544		12.6	60.1	0.002	<0.01	0.35	19.6	3	1.8	278	1.60	0.05	8.35	0.760	1.9
S728545		13.7	74.8	<0.002	<0.01	0.44	18.7	1	1.7	238	1.37	0.05	9.56	0.666	1.9
S728546		13.0	65.6	<0.002	0.01	0.35	19.9	2	1.9	256	1.70	<0.05	8.66	0.739	2.1
S728547		13.2	63.6	<0.002	0.01	0.33	18.7	2	1.7	264	1.66	0.05	8.83	0.693	2.0
S728548		12.3	64.4	<0.002	0.01	0.33	16.9	1	1.7	243	1.41	<0.05	8.59	0.695	1.9
S728549		12.0	57.5	<0.002	<0.01	0.56	20.7	2	1.8	320	1.29	<0.05	8.09	0.692	1.5
S728550		11.3	49.6	0.002	<0.01	0.30	18.1	2	1.7	343	1.41	<0.05	8.61	0.702	1.6
S728551		22.4	48.0	0.002	0.05	0.93	55.9	5	3.0	35.9	1.23	0.14	16.35	0.790	2.9
S728552		10.8	48.0	0.002	<0.01	0.33	17.3	2	1.7	320	1.77	0.05	8.40	0.765	1.8
S728553		14.0	63.1	<0.002	<0.01	0.34	15.9	2	1.8	321	1.44	0.06	9.67	0.614	1.8
S728554		13.0	62.3	<0.002	<0.01	0.58	18.5	2	1.8	309	1.40	0.05	9.32	0.633	1.7
S728555		12.9	59.0	<0.002	0.01	0.28	15.1	1	1.6	319	1.33	0.06	8.90	0.606	1.8
S728556		12.8	58.0	0.002	<0.01	0.31	19.0	1	1.9	309	1.79	<0.05	9.33	0.742	2.2
S728557		13.7	66.3	<0.002	0.01	0.29	16.5	1	1.8	323	1.50	<0.05	10.55	0.636	2.0
S728558		16.2	76.4	<0.002	0.01	0.31	18.1	2	3.3	279	2.66	0.05	13.50	0.648	3.6
S728559		15.8	86.1	0.003	0.01	0.41	17.2	1	2.0	286	1.29	<0.05	13.15	0.558	1.9
S728560		14.5	72.0	0.002	<0.01	0.35	18.5	2	2.2	288	1.82	<0.05	10.15	0.698	2.2
S728561		11.8	46.5	0.002	0.01	2.57	23.9	2	1.8	248	1.17	0.09	7.21	0.720	1.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S728522		128	0.5	18.4	74	142.5
S728523		145	0.7	21.7	109	166.5
S728524		147	0.9	23.0	109	172.5
S728525		145	0.7	22.3	110	181.5
S728526		135	0.7	22.6	95	184.5
S728527		155	0.8	23.7	104	175.0
S728528		139	0.6	21.5	106	191.0
S728529		143	0.8	21.7	97	183.5
S728530		158	0.7	22.0	105	158.5
S728531		42	0.2	7.2	20	55.7
S728532		158	0.8	22.7	104	162.5
S728533		175	0.7	24.3	75	155.5
S728534		142	0.7	18.4	89	160.5
S728535		172	0.7	20.6	103	142.5
S728536		150	0.7	22.1	84	161.0
S728537		190	0.7	27.2	90	158.0
S728538		192	0.8	25.9	102	143.5
S728539		153	0.7	23.5	94	175.0
S728540		149	0.7	23.2	96	168.5
S728541		148	0.6	20.8	91	161.5
S728542		149	0.6	21.2	81	168.0
S728543		141	0.8	24.2	89	202
S728544		130	0.7	25.7	73	207
S728545		134	0.7	21.7	98	185.5
S728546		131	0.7	23.6	78	197.0
S728547		125	0.7	22.5	74	208
S728548		133	0.6	21.4	89	183.0
S728549		146	0.7	25.0	100	207
S728550		124	0.7	23.9	66	243
S728551		236	1.9	12.2	45	167.0
S728552		127	0.8	22.9	70	220
S728553		110	0.7	23.1	71	214
S728554		125	0.7	23.9	73	205
S728555		112	0.7	20.5	73	224
S728556		133	0.7	24.3	77	211
S728557		117	0.7	24.1	86	205
S728558		125	0.7	32.8	96	205
S728559		111	0.8	25.1	95	198.0
S728560		122	0.7	25.3	87	206
S728561		173	0.6	22.7	140	181.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728562		1.56	0.002	0.05	7.49	4.2	440	1.36	0.06	1.65	0.23	81.3	23.1	74	1.08	68.6
S728563		1.57	0.007	0.04	7.14	3.8	530	1.41	0.08	1.93	0.17	82.3	16.3	93	1.31	34.5
S728564		1.60	0.003	0.08	7.86	8.1	510	1.57	0.12	1.68	0.17	89.8	25.2	74	1.89	84.3
S728565		1.25	0.003	0.05	7.50	6.7	400	1.25	0.07	2.63	0.13	65.9	20.3	77	1.08	59.2
S728566		1.47	0.004	0.05	7.48	15.1	450	1.40	0.09	2.35	0.14	74.1	25.4	100	1.50	65.1
S728567		1.45	0.006	0.02	6.77	4.0	460	1.33	0.07	2.40	0.08	85.0	15.5	97	1.11	26.5
S728568		1.62	0.003	0.04	7.11	4.4	450	1.28	0.08	2.66	0.12	70.6	20.6	85	1.12	42.5
S728569		1.31	0.003	0.03	6.67	3.2	430	1.19	0.06	2.99	0.12	78.2	17.9	106	0.83	32.3
S728570		1.40	0.004	0.03	6.81	4.0	440	1.29	0.07	2.97	0.14	82.9	17.1	93	0.96	31.7
S728571		0.16	0.001	0.03	6.29	0.5	410	0.95	0.05	1.97	0.04	21.6	5.6	45	0.75	6.7
S728572		1.36	0.002	0.07	7.55	5.5	530	1.50	0.10	1.75	0.18	85.2	23.5	112	1.70	47.1



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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S728562		6.21	20.9	0.14	4.3	0.078	1.11	37.6	19.3	1.56	1140	0.68	2.04	25.4	31.5
S728563		4.73	19.15	0.16	4.6	0.053	1.52	41.8	18.9	1.31	800	0.63	2.26	26.1	37.2
S728564		6.26	23.9	0.18	4.8	0.083	1.44	40.5	24.9	1.57	1130	0.69	1.87	25.0	35.0
S728565		5.46	20.9	0.15	3.8	0.068	1.14	30.5	17.0	1.60	925	0.46	2.09	19.0	30.8
S728566		5.43	21.7	0.16	4.1	0.059	1.42	34.4	28.1	1.80	956	0.56	2.00	25.9	45.2
S728567		4.33	18.60	0.17	4.6	0.054	1.36	40.1	17.4	1.27	673	0.47	2.18	25.8	33.9
S728568		4.69	20.4	0.18	4.4	0.062	1.30	33.2	17.7	1.54	762	0.45	2.25	21.9	35.6
S728569		4.36	18.85	0.17	4.8	0.059	1.20	36.6	13.8	1.41	706	0.44	2.27	32.8	32.6
S728570		4.55	19.20	0.17	4.7	0.060	1.25	39.2	14.8	1.36	748	0.48	2.24	28.0	32.1
S728571		1.58	14.80	0.07	1.3	0.020	1.22	9.2	7.1	0.53	301	0.13	2.77	3.6	18.9
S728572		5.50	21.5	0.15	4.7	0.071	1.46	42.5	22.9	1.57	1030	0.87	2.05	28.6	45.4



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
S728562		8.9	40.8	<0.002	0.01	1.12	23.2	2	1.8	251	1.20	<0.05	6.78	0.737	0.20	1.5
S728563		11.5	54.6	<0.002	0.01	0.62	16.1	2	1.8	297	1.23	<0.05	8.96	0.625	0.28	1.7
S728564		11.9	62.3	<0.002	0.01	1.31	24.9	2	2.0	245	1.42	0.05	8.05	0.720	0.32	1.7
S728565		8.3	39.3	<0.002	<0.01	0.95	25.2	2	1.9	303	0.98	0.05	5.69	0.678	0.19	1.4
S728566		10.3	55.1	<0.002	0.01	0.83	21.3	2	1.6	278	1.17	<0.05	7.40	0.633	0.30	1.6
S728567		10.5	49.3	0.002	0.01	0.51	17.1	1	1.6	310	1.25	<0.05	7.58	0.644	0.25	1.5
S728568		10.5	47.4	<0.002	<0.01	0.60	21.5	2	1.5	314	1.07	<0.05	7.01	0.598	0.25	1.5
S728569		9.2	39.2	<0.002	<0.01	0.42	21.1	2	1.6	322	1.35	<0.05	6.69	0.695	0.18	1.5
S728570		9.6	42.0	<0.002	<0.01	0.53	21.2	1	1.5	323	1.32	<0.05	7.54	0.683	0.22	1.4
S728571		7.0	46.5	0.002	<0.01	0.06	6.3	1	0.5	401	0.27	<0.05	1.19	0.193	0.27	0.3
S728572		13.5	57.4	<0.002	0.01	1.42	20.2	1	1.7	277	1.37	0.07	8.20	0.645	0.34	1.7



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133518

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728562		159	0.6	24.9	115	170.5
S728563		123	0.6	20.9	92	184.5
S728564		168	0.8	27.0	117	180.5
S728565		163	0.8	25.6	84	143.0
S728566		162	0.8	21.5	91	154.5
S728567		130	0.7	20.5	66	180.0
S728568		146	0.8	21.2	73	168.0
S728569		149	0.6	22.6	63	180.0
S728570		150	0.7	22.3	68	180.0
S728571		43	0.2	7.4	21	49.9
S728572		150	0.6	22.0	113	179.5



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16133518

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS Applies to Method: REE's may not be totally soluble in this method. ME-MS61 LABORATORY ADDRESSES Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. DRY-21 LOG-22 LOG-24 SCR-41 WEI-21 Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS61



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16133520

Project: QK-2016-TS-004

This report is for 99 Soil samples submitted to our lab in Val d'Or, QC, Canada on 11-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DRY-21	High Temperature Drying
SCR-41	Screen to -180um and save both
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
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TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133520

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728845		1.19	<0.001	0.05	7.39	3.7	520	1.51	0.08	1.76	0.21	85.3	24.0	120	1.72	71.6
S728846		1.07	0.001	0.02	6.65	3.8	490	1.57	0.08	1.90	0.14	106.0	21.8	183	1.62	29.9
S728847		1.21	<0.001	0.06	6.98	4.2	560	1.69	0.09	1.89	0.15	93.8	22.8	189	2.04	42.2
S728848		1.48	0.025	0.04	6.54	14.6	510	1.63	0.10	1.93	0.16	97.2	18.9	142	1.38	31.4
S728849		1.30	0.001	0.06	6.63	4.3	510	1.61	0.08	1.80	0.09	96.2	22.2	170	1.74	34.0
S728850		1.11	0.001	0.07	6.81	6.4	540	1.73	0.09	1.95	0.19	102.0	24.3	203	1.72	41.0
S728851		1.25	0.003	0.07	6.78	6.0	530	1.62	0.13	1.86	0.15	89.4	21.6	175	1.82	39.2
S728852		1.43	0.001	0.08	6.90	7.1	540	1.81	0.10	1.93	0.17	106.5	25.9	252	2.02	47.4
S728853		1.45	0.002	0.04	6.29	6.5	530	2.10	0.09	1.99	0.17	155.5	23.4	216	1.37	43.4
S728854		1.26	0.124	0.09	6.58	220	530	1.46	0.27	1.97	0.15	99.6	23.3	115	1.46	79.7
S728855		0.97	0.013	0.04	6.47	21.3	490	1.99	0.12	2.05	0.18	113.0	25.0	158	1.73	42.2
S728856		1.11	0.004	0.08	6.75	4.2	460	1.30	0.09	2.12	0.18	78.2	23.3	156	1.27	41.9
S728857		1.02	0.007	0.01	7.09	6.9	440	1.36	0.07	2.33	0.12	83.2	22.7	190	1.05	43.1
S728858		1.03	0.001	0.08	7.54	6.7	540	1.56	0.09	2.26	0.22	97.4	31.1	208	1.70	57.7
S728859		1.21	0.018	0.04	7.42	17.7	640	1.49	0.14	2.23	0.16	80.4	36.1	278	1.89	56.0
S728860		1.03	0.003	0.08	7.83	18.1	710	1.64	0.16	1.69	0.17	92.4	22.1	107	2.67	45.7
S728861		0.90	0.004	0.05	7.60	16.3	660	1.61	0.17	1.70	0.16	86.7	20.6	104	2.48	41.5
S728862		1.12	0.029	0.06	7.37	20.9	570	1.52	0.15	2.12	0.17	113.0	22.1	133	1.49	38.3
S728863		1.02	0.006	0.04	7.05	24.8	520	1.41	0.11	2.12	0.14	97.1	22.1	175	1.10	37.3
S728864		1.02	0.004	0.08	7.31	12.2	580	1.86	0.15	2.20	0.22	101.0	26.0	133	1.83	62.6
S728865		1.24	0.012	0.05	7.24	26.8	590	1.48	0.14	2.03	0.16	85.3	22.8	159	1.78	52.5
S728866		1.11	0.002	0.04	7.08	27.3	590	1.57	0.12	2.09	0.15	104.0	15.6	125	1.59	26.0
S728867		1.06	<0.001	0.04	6.62	4.7	510	1.35	0.07	2.24	0.13	95.1	15.8	114	1.08	25.1
S728868		1.12	<0.001	0.03	6.34	3.1	500	1.43	0.08	1.90	0.16	93.1	16.6	99	1.34	29.0
S728869		1.08	0.001	0.06	6.86	5.3	580	1.51	0.10	2.09	0.15	97.6	19.1	141	1.67	34.5
S728870		1.12	0.011	0.06	7.19	13.8	570	1.53	0.11	2.22	0.17	96.3	23.5	145	1.59	32.5
S728871		1.04	0.012	0.03	7.06	7.5	450	1.27	0.10	2.60	0.14	99.0	21.4	171	1.11	26.3
S728872		1.34	0.005	0.06	7.02	8.6	560	1.48	0.11	2.04	0.12	87.5	20.3	163	1.72	40.5
S728873		1.64	0.008	0.10	7.31	23.2	500	1.24	0.11	2.05	0.16	77.0	25.0	120	1.80	90.3
S728874		1.11	0.004	0.13	8.47	23.2	650	1.29	0.12	1.61	0.28	60.3	37.9	122	1.47	116.0
S728875		0.96	0.016	0.08	7.80	105.5	610	1.10	0.11	1.36	0.13	66.0	33.5	204	1.22	83.4
S728876		0.80	0.003	0.07	7.28	24.7	500	1.26	0.21	2.39	0.19	96.7	32.3	162	1.21	146.5
S728877		1.16	0.008	0.06	7.46	284	560	1.55	0.09	1.92	0.15	103.5	20.9	107	1.82	39.3
S728878		0.86	0.002	0.10	7.00	17.5	490	1.14	0.11	1.63	0.11	66.3	39.8	551	2.35	80.4
S728879		0.91	0.003	0.06	6.94	24.5	530	1.17	0.09	1.76	0.14	77.1	35.0	405	1.53	52.9
S728880		0.08	0.022	0.16	8.57	16.5	200	0.71	0.33	0.20	0.02	41.9	30.8	559	4.02	381
S728881		0.85	0.003	0.07	7.13	24.9	490	1.09	0.09	1.49	0.13	62.0	46.5	634	1.80	65.4
S728882		0.87	0.005	0.07	6.98	22.0	630	1.16	0.14	1.95	0.12	91.2	14.2	68	0.87	40.4
S728883		1.06	0.005	0.08	7.29	23.7	560	1.50	0.11	1.80	0.13	95.7	22.2	104	1.45	73.3
S728884		0.93	0.008	0.08	7.81	40.0	650	1.01	0.10	1.40	0.26	63.6	30.0	172	1.03	59.8



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16133520

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728845		4.88	19.80	0.14	4.7	0.070	1.57	41.3	24.0	1.87	849	0.58	2.14	20.4	59.9	950
S728846		4.70	17.95	0.14	5.0	0.059	1.42	41.8	21.3	1.47	805	0.67	2.10	34.6	70.2	1160
S728847		5.08	19.30	0.14	5.0	0.065	1.59	50.2	24.2	1.63	774	0.89	1.98	31.1	77.4	1250
S728848		4.30	18.05	0.16	5.0	0.064	1.44	48.8	19.3	1.32	731	0.82	2.14	32.4	55.5	1240
S728849		4.74	18.80	0.16	5.0	0.058	1.44	46.3	22.1	1.47	753	0.75	2.00	32.8	71.6	1170
S728850		5.09	18.90	0.16	5.4	0.070	1.46	54.4	23.1	1.64	818	0.81	2.07	36.4	81.8	1330
S728851		4.69	19.00	0.17	5.2	0.057	1.53	46.3	23.1	1.50	709	0.70	2.01	29.7	67.7	1130
S728852		5.15	19.35	0.18	5.4	0.069	1.55	56.0	24.0	1.67	882	0.96	1.98	34.5	86.9	1280
S728853		4.94	17.95	0.20	6.1	0.065	1.26	83.7	23.3	1.65	879	0.69	1.99	62.5	83.5	1950
S728854		4.58	18.30	0.19	5.9	0.058	1.48	48.8	18.7	1.17	774	0.67	2.05	30.9	50.7	1140
S728855		4.90	19.70	0.19	5.4	0.066	1.41	62.5	26.7	1.85	848	0.63	1.93	31.8	67.8	1370
S728856		4.15	18.00	0.12	4.6	0.054	1.37	35.8	18.9	1.62	754	0.46	1.98	17.0	63.9	860
S728857		5.17	17.55	0.21	3.9	0.073	1.24	36.4	20.1	1.89	842	0.52	2.23	36.9	70.9	1080
S728858		5.86	19.35	0.19	4.6	0.073	1.44	44.9	26.0	2.17	971	0.80	2.13	31.2	94.3	1290
S728859		6.17	19.15	0.17	4.0	0.068	1.42	34.3	25.5	2.79	1040	0.67	1.99	25.6	141.0	920
S728860		4.64	19.75	0.25	4.4	0.059	2.12	41.3	29.7	1.44	929	0.70	2.05	15.5	56.2	940
S728861		4.51	19.10	0.24	4.3	0.054	2.07	37.9	27.7	1.37	921	0.58	2.09	15.8	52.3	960
S728862		4.82	18.75	0.25	5.1	0.066	1.63	49.0	21.4	1.49	1010	0.63	2.39	32.9	57.1	1320
S728863		4.88	18.05	0.21	4.9	0.067	1.45	43.0	20.0	1.53	876	0.58	2.38	30.1	64.8	1250
S728864		5.07	19.45	0.23	4.8	0.067	1.70	46.0	25.0	1.57	1040	0.65	2.22	29.4	60.4	1360
S728865		5.05	18.15	0.23	4.3	0.065	1.65	39.1	23.7	1.71	956	0.74	2.12	22.1	64.0	1300
S728866		4.12	18.45	0.27	6.4	0.061	1.72	48.8	20.2	1.15	756	0.49	2.32	22.2	43.6	1200
S728867		4.18	16.50	0.23	4.7	0.061	1.50	46.0	17.0	1.24	735	0.63	2.38	33.7	42.3	1470
S728868		3.83	16.90	0.25	4.5	0.058	1.48	47.1	18.8	1.18	688	0.66	2.26	28.5	49.2	1210
S728869		4.46	18.05	0.25	5.4	0.059	1.66	46.2	21.8	1.40	749	0.59	2.21	25.2	59.8	1290
S728870		4.65	18.30	0.23	4.6	0.065	1.65	43.2	20.9	1.51	927	0.62	2.28	26.5	65.4	1150
S728871		5.08	17.70	0.27	5.0	0.072	1.25	46.2	18.0	1.75	815	0.43	2.19	43.3	52.5	1090
S728872		4.56	18.00	0.25	4.9	0.059	1.62	41.9	21.5	1.56	733	0.58	2.13	33.9	65.1	1120
S728873		5.17	19.00	0.20	4.3	0.062	1.45	35.5	20.3	1.61	1100	0.64	2.03	26.9	52.9	1040
S728874		7.33	22.1	0.21	4.1	0.086	1.49	29.3	29.0	2.54	1600	0.78	1.78	14.9	69.5	1110
S728875		6.01	19.40	0.20	3.4	0.070	1.40	28.4	23.5	2.03	950	0.88	1.77	16.0	108.0	870
S728876		5.60	17.50	0.19	4.3	0.075	1.30	39.4	17.2	1.90	1000	0.89	2.16	28.4	79.2	2030
S728877		5.01	19.85	0.24	5.4	0.067	1.61	49.5	23.0	1.41	920	0.77	2.25	34.4	47.2	1100
S728878		5.80	17.70	0.19	4.1	0.064	1.32	32.5	21.8	3.96	963	0.42	1.80	15.3	321	830
S728879		5.08	17.80	0.19	4.9	0.058	1.43	34.5	20.9	2.35	982	0.43	1.98	18.7	230	960
S728880		14.90	22.1	0.11	4.5	0.098	0.43	18.7	21.8	0.24	505	2.58	0.10	15.6	234	440
S728881		6.22	17.55	0.14	4.1	0.059	1.33	29.2	22.3	4.34	1010	0.45	1.71	13.4	411	920
S728882		4.67	17.20	0.21	6.0	0.056	1.61	42.5	13.3	0.97	608	0.86	2.30	15.2	29.0	1050
S728883		5.02	18.65	0.30	4.8	0.064	1.51	46.7	21.3	1.36	841	0.91	2.15	24.1	48.6	1180
S728884		5.72	18.95	0.19	3.5	0.066	1.43	29.6	21.5	1.91	871	0.84	1.81	16.4	83.7	740



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728845		12.2	61.0	<0.002	<0.01	0.39	25.6	1	1.6	249	1.10	<0.05	8.21	0.545	1.6
S728846		13.0	59.0	<0.002	0.01	0.33	16.4	1	1.8	251	1.67	<0.05	9.68	0.756	1.8
S728847		13.8	69.4	<0.002	0.01	0.34	17.3	1	1.8	244	1.64	<0.05	9.59	0.691	2.5
S728848		12.1	56.2	<0.002	0.01	0.36	16.4	1	1.8	265	1.64	<0.05	7.99	0.679	1.8
S728849		12.9	62.8	<0.002	0.01	0.34	17.6	1	1.7	238	1.62	<0.05	8.31	0.698	1.7
S728850		12.9	59.5	<0.002	0.01	0.37	18.3	1	1.8	246	1.81	<0.05	8.52	0.757	2.0
S728851		13.3	64.1	<0.002	0.01	0.40	17.6	1	1.8	248	1.59	<0.05	8.53	0.667	1.8
S728852		13.5	68.8	<0.002	0.01	0.44	19.3	1	1.8	244	1.95	<0.05	10.10	0.772	2.1
S728853		12.3	51.9	<0.002	0.01	0.43	19.4	2	1.9	241	2.62	<0.05	9.33	0.907	2.0
S728854		14.4	56.1	<0.002	0.01	0.72	16.0	1	1.7	311	1.23	<0.05	9.00	0.554	1.8
S728855		15.9	62.4	<0.002	0.01	0.75	20.2	1	1.8	253	1.57	<0.05	8.58	0.741	2.0
S728856		10.8	46.1	<0.002	<0.01	0.96	24.5	1	1.4	257	1.01	<0.05	7.43	0.564	1.3
S728857		8.9	42.2	<0.002	0.01	0.79	26.5	2	1.6	238	1.77	<0.05	6.88	0.779	1.5
S728858		10.8	55.3	<0.002	0.01	0.84	26.9	2	1.8	223	1.76	0.05	8.17	0.816	1.8
S728859		10.3	57.8	<0.002	0.01	1.08	24.8	2	1.8	217	1.45	<0.05	7.03	0.762	1.6
S728860		15.1	85.7	<0.002	0.01	0.65	15.8	1	1.7	290	0.93	0.05	10.40	0.476	1.7
S728861		14.5	75.9	<0.002	0.01	0.60	15.3	2	1.6	295	0.93	<0.05	9.50	0.478	1.7
S728862		12.5	59.8	<0.002	0.01	0.95	19.4	1	1.9	292	1.53	<0.05	9.37	0.741	1.9
S728863		9.9	47.2	<0.002	0.01	3.19	19.8	2	1.7	285	1.56	<0.05	7.28	0.797	1.7
S728864		14.0	62.3	<0.002	0.01	0.67	18.4	2	1.8	296	1.79	0.05	9.98	0.674	2.6
S728865		11.7	59.9	<0.002	0.01	0.80	21.6	1	1.6	337	1.22	<0.05	7.42	0.671	1.5
S728866		13.7	60.9	<0.002	0.01	0.34	15.7	2	1.7	338	1.27	0.05	10.15	0.627	1.8
S728867		11.1	50.9	<0.002	<0.01	0.31	15.3	1	1.6	308	1.53	<0.05	8.12	0.743	1.8
S728868		12.7	58.2	<0.002	<0.01	0.22	14.8	2	1.5	265	1.43	<0.05	8.64	0.606	1.9
S728869		12.6	60.5	<0.002	0.01	0.35	16.0	1	1.6	304	1.37	<0.05	8.85	0.659	1.6
S728870		12.1	58.4	0.002	0.01	0.76	19.0	2	1.6	297	1.44	0.05	8.81	0.654	1.6
S728871		9.8	43.5	<0.002	0.01	0.75	24.2	2	1.7	282	1.60	<0.05	8.24	0.832	1.5
S728872		12.8	60.4	<0.002	0.01	0.46	17.4	1	1.6	289	1.36	0.07	9.41	0.629	1.8
S728873		10.5	48.2	<0.002	0.01	2.73	23.5	1	1.5	275	1.01	0.07	7.59	0.655	1.4
S728874		10.7	42.5	<0.002	0.02	2.88	29.3	2	1.5	187.0	0.82	0.13	4.95	0.732	1.3
S728875		10.5	39.0	<0.002	0.02	9.13	23.5	1	1.3	205	0.79	0.34	5.38	0.637	1.3
S728876		10.3	36.3	<0.002	0.01	1.89	18.6	2	1.6	326	2.38	0.10	12.30	0.645	2.1
S728877		13.5	57.0	<0.002	0.01	1.19	19.1	2	1.8	295	1.68	<0.05	9.17	0.665	2.2
S728878		10.8	47.8	<0.002	0.02	1.24	21.3	1	1.3	263	0.78	0.07	6.85	0.505	1.2
S728879		11.7	44.5	<0.002	0.01	1.97	22.7	1	1.4	306	0.95	0.06	7.54	0.495	1.3
S728880		20.0	44.1	<0.002	0.05	0.88	53.9	4	2.7	34.0	1.16	0.12	14.95	0.823	2.7
S728881		10.2	41.2	<0.002	0.02	2.29	23.4	1	1.2	241	0.81	0.08	6.48	0.499	1.2
S728882		11.5	47.0	<0.002	0.01	2.77	14.1	2	1.4	348	0.82	0.27	9.37	0.515	1.6
S728883		12.8	58.3	<0.002	0.01	2.22	17.6	2	1.6	286	1.13	0.11	8.23	0.593	1.9
S728884		10.4	41.4	<0.002	0.01	3.98	22.2	2	1.4	215	0.90	0.44	5.06	0.685	1.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728845		143	0.7	21.9	84	169.0
S728846		125	0.6	18.3	84	187.5
S728847		129	0.7	21.5	96	179.0
S728848		114	1.7	22.2	77	178.5
S728849		123	0.8	19.8	81	183.5
S728850		134	0.9	23.6	90	195.5
S728851		122	1.2	20.4	91	187.5
S728852		132	1.4	24.7	94	194.5
S728853		145	1.0	28.6	77	218
S728854		109	2.0	20.6	84	209
S728855		130	2.4	24.6	93	195.0
S728856		136	0.9	21.8	63	162.5
S728857		160	1.0	24.9	74	153.5
S728858		177	0.9	26.6	104	170.5
S728859		176	2.5	21.4	104	146.0
S728860		114	1.8	19.8	88	159.0
S728861		109	1.7	18.9	85	159.0
S728862		134	4.1	24.1	81	193.5
S728863		137	1.9	23.1	76	178.5
S728864		134	1.9	23.7	98	180.5
S728865		150	3.3	22.0	82	157.5
S728866		103	21.5	24.6	73	231
S728867		118	0.7	21.5	68	183.0
S728868		108	0.5	20.8	71	167.0
S728869		116	0.8	22.0	78	198.5
S728870		126	1.4	22.3	79	175.5
S728871		153	1.2	23.1	77	189.0
S728872		120	0.9	21.2	76	180.5
S728873		163	1.9	22.3	82	155.0
S728874		219	1.3	24.0	130	146.0
S728875		175	1.7	19.2	105	125.0
S728876		146	1.0	23.6	95	157.0
S728877		134	0.7	22.8	92	206
S728878		143	0.7	19.3	80	149.5
S728879		126	0.8	18.1	75	179.5
S728880		240	1.7	11.0	44	152.0
S728881		153	0.7	16.4	84	146.5
S728882		103	1.1	18.5	62	227
S728883		125	1.7	22.6	81	181.5
S728884		163	1.4	18.3	149	131.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728885		1.06	0.011	0.07	7.28	18.4	510	1.38	0.09	1.74	0.16	81.5	22.7	175	1.44	46.7
S728886		0.97	0.003	0.04	6.70	20.3	460	1.08	0.09	1.58	0.11	84.9	28.7	227	1.01	42.2
S728887		1.24	<0.001	0.05	7.57	8.0	420	1.08	0.08	2.50	0.13	59.6	25.1	115	1.15	45.5
S728888		1.04	0.003	0.07	6.86	6.2	430	1.08	0.08	2.39	0.13	75.8	18.8	97	1.00	47.2
S728889		1.23	0.004	0.06	7.51	8.7	480	1.21	0.09	2.10	0.16	76.6	20.7	90	1.25	64.6
S728890		1.03	0.006	0.10	8.05	16.4	430	1.05	0.08	1.99	0.21	56.4	36.9	131	1.25	118.5
S728891		0.80	0.001	0.05	7.95	11.0	400	1.00	0.07	1.87	0.10	57.1	29.4	101	0.97	57.8
S728892		1.15	0.004	0.05	7.15	11.8	480	1.28	0.10	1.87	0.14	88.4	22.2	122	1.34	49.4
S728893		1.04	0.004	0.09	7.96	15.4	550	1.13	0.12	1.62	0.19	55.7	30.2	124	1.24	84.5
S728894		1.11	0.002	0.09	7.52	12.0	550	1.37	0.13	1.82	0.18	78.5	22.9	105	1.59	58.2
S728895		1.03	0.017	0.08	7.57	19.4	540	1.19	0.16	2.00	0.15	60.1	29.4	132	1.32	89.3
S728896		1.06	0.009	0.04	7.01	7.3	470	1.45	0.11	2.28	0.15	84.3	25.2	168	1.19	49.3
S728897		0.96	0.006	0.05	7.15	5.2	560	1.67	0.10	2.18	0.16	100.0	21.6	146	1.69	36.5
S728898		1.11	0.011	0.05	7.31	13.3	660	1.63	0.13	2.01	0.21	99.5	23.3	117	2.14	44.2
S728899		0.74	0.033	0.07	7.04	7.6	570	1.77	0.20	2.16	0.16	141.0	20.5	117	1.50	54.1
S728900		0.13	0.008	0.03	6.20	0.5	400	0.95	0.05	1.75	0.03	18.55	5.8	37	0.83	7.9
S728901		1.11	0.018	0.05	6.96	9.8	570	1.65	0.15	1.85	0.17	94.2	21.8	104	1.80	52.0
S728902		0.89	<0.001	0.03	6.85	4.1	510	1.71	0.09	2.26	0.13	120.5	19.2	149	1.41	32.3
S728903		1.15	0.011	0.05	6.88	15.0	510	1.56	0.13	2.25	0.15	84.6	24.5	267	1.74	44.3
S728904		1.45	0.001	0.05	7.04	8.9	550	1.88	0.11	2.33	0.19	116.0	23.6	159	1.68	43.2
S728905		1.23	0.008	0.08	7.02	19.9	540	1.57	0.12	1.81	0.18	81.5	24.9	240	1.84	58.5
S728906		1.21	0.004	0.10	7.47	14.7	610	2.07	0.15	1.89	0.15	98.5	25.3	203	3.02	62.5
S728907		0.83	0.002	0.05	7.35	8.0	530	1.37	0.12	1.92	0.19	73.1	28.4	205	2.04	49.1
S728908		1.20	0.016	0.03	7.10	8.7	540	1.58	0.13	2.16	0.17	89.7	19.2	137	1.57	31.9
S728909		0.95	0.001	0.05	7.42	5.4	560	1.27	0.10	2.23	0.14	59.5	25.5	169	1.98	56.7
S728910		0.93	0.003	0.04	6.98	4.1	570	1.65	0.12	2.08	0.13	103.0	16.9	124	1.69	31.8
S728911		1.07	0.005	0.03	7.17	4.0	530	1.37	0.10	1.86	0.12	75.2	22.3	165	1.63	46.6
S728912		0.91	0.004	0.07	7.20	7.1	520	1.53	0.14	1.98	0.14	86.2	26.4	205	1.99	50.0
S728913		1.25	0.002	0.07	7.72	7.6	700	1.62	0.15	1.78	0.17	83.2	21.6	149	2.60	42.6
S728914		1.18	0.016	0.06	7.19	4.7	580	1.92	0.11	2.00	0.21	106.5	21.4	117	2.19	40.8
S728915		1.25	0.003	0.04	7.10	18.1	560	1.62	0.12	1.67	0.09	105.0	21.4	177	1.86	44.1
S728916		0.96	0.093	0.14	7.49	237	610	1.91	0.30	1.97	0.18	99.0	28.3	142	2.24	71.8
S728917		1.00	0.010	0.06	7.42	50.3	580	1.60	0.16	2.41	0.22	97.6	37.5	228	1.92	84.8
S728918		0.87	0.004	0.05	7.42	12.7	570	1.54	0.16	2.75	0.21	84.9	32.1	276	1.91	60.2
S728919		0.90	0.001	0.04	7.17	3.6	510	1.61	0.10	1.54	0.14	92.7	27.0	268	1.67	42.5
S728920		0.04	0.390	0.59	7.74	35.1	2910	3.22	6.05	0.63	0.39	101.5	16.1	20	7.63	1590
S728921		0.96	0.001	0.05	7.93	4.8	560	1.46	0.13	1.23	0.12	76.1	21.9	120	1.97	36.3
S728922		1.29	0.011	0.14	7.07	27.3	480	1.46	0.22	1.56	0.40	80.2	33.0	363	2.19	62.8
S728923		1.00	0.001	0.08	7.51	3.5	580	1.94	0.12	1.81	0.17	112.0	19.2	134	2.39	45.3
S728924		0.99	0.016	0.06	7.35	6.5	550	1.61	0.11	1.82	0.21	103.5	24.9	178	2.23	52.7



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728885		5.02	18.35	0.23	4.6	0.063	1.52	39.0	20.2	1.71	1060	0.58	2.07	20.5	93.1	930
S728886		4.85	17.15	0.27	5.0	0.065	1.32	40.1	17.3	1.84	737	0.50	1.88	16.9	131.5	960
S728887		5.58	19.00	0.21	3.2	0.064	1.18	25.9	20.8	2.16	861	0.44	1.92	19.4	58.5	850
S728888		4.54	17.45	0.25	4.7	0.058	1.18	33.2	16.3	1.51	806	0.39	2.26	19.1	41.8	970
S728889		4.92	19.25	0.27	4.3	0.064	1.43	35.8	20.1	1.53	904	0.50	2.15	35.4	41.5	1040
S728890		6.48	20.8	0.21	3.6	0.078	1.27	25.0	22.8	2.17	1320	0.71	1.81	16.4	67.9	880
S728891		6.34	20.3	0.21	3.4	0.072	1.18	24.9	22.9	2.07	1180	0.58	1.83	14.4	51.6	950
S728892		5.13	19.45	0.29	4.6	0.066	1.34	42.6	20.8	1.67	837	0.73	2.02	30.8	59.0	1080
S728893		6.03	20.2	0.17	4.1	0.066	1.29	26.2	20.2	1.86	959	1.80	1.83	18.6	67.6	750
S728894		5.30	20.3	0.18	4.5	0.062	1.40	39.6	21.8	1.58	878	1.03	2.00	27.2	48.8	1100
S728895		5.71	19.30	0.15	3.4	0.068	1.28	26.4	18.9	1.81	1060	0.67	1.85	14.5	64.7	840
S728896		5.16	17.90	0.17	4.1	0.065	1.31	39.3	17.3	1.68	828	0.60	2.22	31.9	55.9	1160
S728897		4.92	19.10	0.19	5.4	0.058	1.65	49.6	21.7	1.59	843	0.73	2.26	33.4	61.5	1410
S728898		4.10	18.85	0.17	5.5	0.052	1.91	48.4	21.9	1.29	674	0.55	2.22	19.9	70.1	1080
S728899		4.47	18.75	0.20	5.3	0.060	1.64	60.0	22.8	1.18	852	0.95	2.41	36.8	41.4	1300
S728900		1.39	14.30	0.12	1.7	0.018	1.21	8.7	7.8	0.53	249	0.17	2.71	2.8	21.2	200
S728901		4.54	18.45	0.17	4.7	0.054	1.68	44.6	20.5	1.26	845	0.54	2.11	22.9	44.6	1060
S728902		4.79	19.25	0.19	6.2	0.060	1.49	61.9	20.0	1.40	809	0.68	2.32	39.9	49.4	1390
S728903		5.49	17.90	0.16	4.6	0.068	1.47	41.9	25.2	2.37	1080	0.53	1.91	34.9	91.0	1570
S728904		5.23	19.35	0.16	5.2	0.065	1.53	56.7	22.1	1.73	943	0.67	2.22	44.2	64.2	1670
S728905		5.37	18.10	0.18	4.5	0.061	1.69	40.9	21.6	1.74	956	0.61	1.94	27.8	92.4	1400
S728906		6.07	21.5	0.19	5.5	0.072	1.74	55.6	31.2	1.84	678	1.32	1.99	38.0	93.7	1350
S728907		5.88	18.50	0.15	3.6	0.062	1.57	34.8	23.1	2.21	955	0.54	1.90	18.6	95.0	1080
S728908		4.41	18.35	0.16	5.0	0.059	1.59	41.5	18.6	1.37	691	0.52	2.25	23.7	52.8	1150
S728909		5.77	17.80	0.13	3.1	0.062	1.53	27.2	22.8	2.08	1020	0.33	1.96	15.1	64.4	990
S728910		4.05	18.50	0.18	5.5	0.056	1.66	50.3	18.7	1.23	703	0.48	2.28	31.9	49.7	1200
S728911		5.09	17.05	0.13	4.1	0.062	1.51	36.7	20.7	1.76	772	0.34	2.18	23.6	56.2	990
S728912		5.57	18.10	0.13	3.7	0.062	1.52	38.4	25.5	2.14	1060	0.63	2.03	36.4	79.0	1280
S728913		4.49	19.05	0.16	4.3	0.054	2.14	38.9	25.7	1.62	897	0.50	2.08	14.0	72.0	980
S728914		5.05	20.4	0.16	5.1	0.063	1.77	53.8	24.4	1.54	825	1.17	2.19	40.5	57.8	1410
S728915		4.50	18.65	0.18	4.9	0.057	1.64	51.9	21.6	1.47	658	0.72	2.04	34.6	76.1	1020
S728916		5.53	21.0	0.17	5.1	0.075	1.86	47.8	21.4	1.38	1180	0.77	2.14	32.0	72.1	1370
S728917		5.21	18.75	0.16	4.8	0.064	1.63	47.4	21.6	1.68	1030	0.55	2.18	37.5	174.0	1310
S728918		4.43	18.25	0.15	4.4	0.053	1.70	40.0	21.7	1.72	1000	0.39	2.13	18.9	157.0	1020
S728919		5.22	19.15	0.15	4.4	0.061	1.51	44.5	22.8	1.94	1080	0.59	1.90	25.9	120.0	940
S728920		4.19	26.5	0.15	7.2	0.680	3.00	50.1	20.1	0.28	398	3.25	2.50	19.6	9.8	280
S728921		5.11	22.0	0.15	4.4	0.067	1.89	34.0	27.2	1.72	634	0.33	1.81	28.5	58.4	730
S728922		6.13	18.20	0.14	3.8	0.067	1.44	35.3	24.5	2.71	1140	0.85	1.69	22.9	181.0	980
S728923		4.84	20.6	0.16	5.5	0.065	1.82	53.8	25.5	1.55	615	0.96	2.15	39.6	61.5	1140
S728924		5.63	19.45	0.18	4.6	0.064	1.63	51.4	23.3	1.74	1020	0.73	2.01	28.8	78.0	1120



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728885		11.6	54.1	<0.002	0.01	1.77	18.6	2	1.5	286	0.97	0.07	7.87	0.581	1.5
S728886		10.4	45.5	<0.002	0.01	2.14	19.3	1	1.3	255	0.88	0.08	7.44	0.594	1.4
S728887		8.3	40.3	<0.002	0.01	1.17	23.4	1	1.4	273	0.83	<0.05	5.31	0.637	1.1
S728888		9.7	38.3	<0.002	<0.01	1.11	21.9	2	1.4	317	1.02	0.06	6.92	0.653	1.4
S728889		11.0	46.5	<0.002	0.01	0.92	21.0	1	1.6	297	1.46	0.07	7.37	0.664	1.8
S728890		9.1	35.2	<0.002	0.01	1.66	28.7	1	1.4	235	0.82	0.11	4.56	0.710	1.1
S728891		7.8	39.3	<0.002	0.01	1.43	26.4	1	1.4	230	0.83	0.07	4.41	0.708	1.2
S728892		11.4	49.7	<0.002	0.01	1.07	20.4	2	1.6	265	1.54	0.06	8.09	0.661	2.3
S728893		17.7	41.0	0.003	0.02	1.82	23.3	1	1.3	221	0.94	0.13	5.47	0.600	1.4
S728894		13.9	55.5	<0.002	0.01	1.30	20.5	1	1.7	256	1.37	0.09	7.53	0.620	1.8
S728895		12.2	41.8	<0.002	0.02	1.63	22.4	1	1.4	242	0.82	0.15	5.52	0.619	1.3
S728896		10.6	47.3	0.002	<0.01	0.74	21.1	1	1.7	253	1.46	<0.05	7.63	0.726	1.6
S728897		13.6	64.7	<0.002	0.01	0.45	18.2	1	1.7	281	1.70	<0.05	9.27	0.687	2.1
S728898		15.6	73.5	<0.002	0.01	0.65	15.0	1	1.6	320	1.16	<0.05	10.80	0.497	1.7
S728899		15.7	57.5	0.002	0.01	0.62	16.4	1	1.8	322	1.54	<0.05	11.00	0.636	1.8
S728900		7.8	47.7	<0.002	<0.01	0.07	6.2	<1	0.5	377	0.19	<0.05	1.17	0.155	0.4
S728901		13.6	64.1	0.002	0.01	0.86	16.9	1	1.6	283	1.25	<0.05	9.27	0.567	1.7
S728902		13.2	56.5	0.002	<0.01	0.31	17.9	1	1.8	299	1.94	<0.05	10.95	0.821	2.4
S728903		10.8	52.6	<0.002	<0.01	0.73	23.7	1	1.8	266	1.51	<0.05	7.07	0.696	1.8
S728904		12.8	59.4	<0.002	0.01	0.38	20.5	2	1.8	322	1.94	<0.05	9.71	0.781	2.0
S728905		11.6	68.0	<0.002	0.01	1.42	23.1	1	1.5	254	1.29	0.05	8.10	0.611	1.8
S728906		15.8	85.8	<0.002	0.01	0.48	20.9	2	2.0	239	1.75	<0.05	12.40	0.716	3.0
S728907		10.9	60.0	<0.002	0.01	0.96	23.9	1	1.5	264	1.06	<0.05	6.68	0.620	1.4
S728908		12.8	58.1	<0.002	<0.01	0.86	19.2	1	1.6	312	1.25	<0.05	8.07	0.624	1.7
S728909		9.5	50.6	<0.002	0.01	0.89	26.7	1	1.2	361	0.82	<0.05	5.55	0.555	1.2
S728910		13.9	63.1	<0.002	0.01	0.46	17.0	1	1.6	319	1.42	<0.05	9.96	0.603	1.8
S728911		10.7	52.8	<0.002	0.01	0.62	24.4	1	1.5	292	1.15	<0.05	6.93	0.571	1.5
S728912		11.8	61.3	<0.002	0.01	0.74	23.9	1	1.8	290	1.25	<0.05	8.11	0.588	1.8
S728913		15.6	81.5	0.002	0.01	0.65	16.5	1	1.6	314	0.82	<0.05	9.87	0.438	1.5
S728914		15.2	77.2	0.002	0.01	0.34	17.4	2	1.8	268	1.82	<0.05	12.15	0.672	2.6
S728915		13.4	63.3	<0.002	0.01	1.01	17.4	1	1.6	261	1.38	<0.05	10.00	0.586	1.9
S728916		15.6	70.8	<0.002	0.01	4.87	21.3	2	1.9	265	1.56	0.08	9.39	0.684	2.1
S728917		14.0	56.8	<0.002	0.01	1.51	20.0	1	1.7	300	1.69	<0.05	9.38	0.636	2.4
S728918		13.3	63.0	0.002	0.01	0.58	19.4	1	1.6	301	1.01	<0.05	9.12	0.505	1.5
S728919		12.2	60.9	<0.002	0.01	0.52	20.7	1	1.5	234	1.26	<0.05	8.46	0.598	1.6
S728920		31.0	145.5	<0.002	0.07	2.18	5.5	3	4.2	166.5	1.44	0.09	15.70	0.127	5.2
S728921		13.2	70.4	<0.002	0.01	0.87	23.9	1	1.7	214	1.53	<0.05	8.14	0.554	2.3
S728922		23.5	60.8	<0.002	0.01	1.33	23.1	1	1.7	205	1.20	<0.05	7.82	0.609	1.7
S728923		15.9	84.4	<0.002	0.01	0.40	17.9	1	2.0	255	1.72	<0.05	12.90	0.666	2.2
S728924		13.5	72.6	<0.002	0.01	0.67	20.7	2	1.7	262	1.37	<0.05	10.40	0.638	1.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728885		127	0.8	19.8	82	170.0
S728886		139	0.9	20.4	69	185.5
S728887		171	0.7	18.6	89	113.5
S728888		149	0.8	20.8	65	171.5
S728889		146	0.7	22.6	81	159.5
S728890		203	0.9	22.7	103	129.0
S728891		200	0.8	20.8	103	123.0
S728892		146	0.7	22.6	88	170.0
S728893		173	0.7	19.7	122	141.5
S728894		143	0.7	21.8	111	173.5
S728895		163	1.1	21.2	102	126.0
S728896		146	1.0	23.4	81	157.5
S728897		130	0.8	23.4	87	207
S728898		103	1.2	21.0	81	209
S728899		116	1.2	23.9	100	205
S728900		38	0.2	6.5	21	60.1
S728901		116	1.3	20.6	85	181.0
S728902		128	0.7	24.2	82	239
S728903		156	1.1	24.6	106	177.0
S728904		142	0.8	26.5	93	209
S728905		150	0.9	22.8	90	177.5
S728906		145	0.8	25.9	123	213
S728907		173	1.0	20.4	98	138.5
S728908		130	1.2	21.7	74	193.5
S728909		186	1.3	19.4	80	118.0
S728910		108	0.8	22.0	69	210
S728911		148	0.9	19.4	83	159.0
S728912		154	1.0	19.8	96	152.0
S728913		118	1.1	18.4	80	162.5
S728914		128	0.7	23.1	108	195.5
S728915		117	1.0	21.6	78	189.5
S728916		132	4.4	26.4	109	193.5
S728917		134	2.0	23.1	98	183.5
S728918		115	1.7	21.4	79	171.0
S728919		140	0.6	21.0	90	170.0
S728920		10	2.9	17.2	145	270
S728921		147	1.0	20.9	97	164.0
S728922		163	1.3	20.5	126	140.0
S728923		133	0.7	23.5	108	211
S728924		141	0.9	23.9	95	185.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728925		0.89	<0.001	0.04	7.17	3.1	540	1.86	0.11	2.12	0.15	107.0	19.3	120	1.66	38.3
S728926		0.95	0.005	0.06	7.26	3.6	570	1.50	0.11	1.99	0.19	85.2	21.8	144	1.98	54.2
S728927		0.84	0.003	0.02	6.95	3.0	500	1.21	0.07	2.40	0.13	66.3	24.0	231	1.56	50.6
S728928		1.05	<0.001	0.05	7.50	3.4	570	1.84	0.13	1.90	0.17	99.4	23.5	140	2.29	45.0
S728929		0.78	0.002	0.05	7.36	7.5	500	1.27	0.11	2.34	0.14	65.5	26.1	128	1.40	71.2
S728930		0.98	<0.001	0.05	7.31	5.5	540	1.38	0.10	2.25	0.11	76.5	25.1	187	1.74	60.8
S728931		0.97	0.004	0.05	7.28	5.9	530	1.47	0.11	1.78	0.16	88.0	27.1	328	1.90	52.3
S728932		1.06	0.003	0.07	7.05	8.2	550	1.51	0.11	1.89	0.16	80.8	29.3	287	2.03	63.3
S728933		1.16	0.018	0.11	7.24	8.4	640	1.42	0.12	1.66	0.10	74.0	22.3	159	1.62	128.5
S728934		1.04	0.012	0.05	6.89	49.8	560	1.49	0.18	1.81	0.11	88.6	16.1	145	1.18	49.1
S728935		0.87	0.003	0.08	7.12	21.4	480	1.19	0.17	1.85	0.23	63.2	46.3	359	1.46	110.5
S728936		1.16	0.002	0.06	7.16	20.2	470	1.36	0.13	2.03	0.13	71.4	35.3	460	2.10	64.6
S728937		1.22	0.002	0.07	7.28	16.1	520	1.60	0.11	1.88	0.17	89.7	31.4	316	2.24	51.6
S728938		1.06	0.004	0.03	7.18	10.9	510	1.38	0.08	2.80	0.14	78.3	25.4	226	1.50	54.2
S728939		1.33	0.001	0.07	7.60	11.2	570	1.65	0.11	2.15	0.13	90.0	26.0	173	2.11	66.4
S728940		0.20	<0.001	0.04	6.56	0.7	410	1.10	0.06	2.11	0.03	27.1	6.2	45	0.76	6.9
S728941		1.05	0.003	0.05	7.54	11.7	570	1.55	0.08	2.53	0.13	83.5	25.2	216	1.76	52.3
S728942		1.23	0.001	0.04	7.03	5.2	530	1.45	0.07	2.56	0.15	85.9	20.7	201	1.22	33.8
S728943		1.59	0.002	0.06	7.28	9.1	530	1.60	0.09	1.95	0.11	98.1	24.7	255	2.15	62.1



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CERTIFICATE OF ANALYSIS VO16133520

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728925		4.78	20.0	0.16	5.8	0.070	1.61	50.0	21.8	1.42	821	0.71	2.32	40.5	47.1	1410
S728926		4.77	17.60	0.14	4.7	0.054	1.65	39.9	20.3	1.63	941	0.49	2.12	26.3	62.9	1090
S728927		5.38	16.45	0.13	3.1	0.057	1.35	30.3	19.9	2.20	944	0.29	2.02	29.0	84.2	1140
S728928		5.37	19.95	0.16	4.8	0.058	1.70	45.3	25.7	1.85	1080	0.61	2.07	55.0	63.2	1410
S728929		5.23	16.50	0.14	3.5	0.051	1.41	30.5	18.6	1.66	943	1.35	2.10	21.0	57.0	1030
S728930		5.06	17.15	0.14	4.2	0.055	1.49	35.1	20.6	1.91	743	0.78	2.12	20.4	86.4	1050
S728931		5.03	19.30	0.15	4.5	0.058	1.57	40.5	25.9	2.68	603	0.47	1.91	25.2	169.5	840
S728932		5.14	18.75	0.16	4.5	0.055	1.57	39.0	25.3	2.51	1180	0.70	1.92	22.6	157.5	1090
S728933		5.02	17.95	0.14	4.1	0.061	1.73	36.2	23.2	1.81	844	0.53	1.98	19.0	77.7	1200
S728934		4.10	17.30	0.18	5.4	0.052	1.59	47.4	17.6	1.30	644	0.60	2.15	23.9	55.0	1020
S728935		5.65	18.75	0.16	3.7	0.062	1.50	30.1	22.1	2.66	1080	0.62	1.67	16.7	242	900
S728936		5.56	18.45	0.17	4.6	0.059	1.33	36.4	25.9	3.76	725	0.56	1.76	24.0	281	840
S728937		5.54	19.40	0.15	4.1	0.063	1.61	39.6	27.0	2.67	984	0.77	1.90	24.9	170.5	1040
S728938		5.22	18.00	0.15	4.5	0.059	1.38	38.6	20.3	2.26	921	0.52	2.05	21.7	91.9	1280
S728939		5.63	19.60	0.16	4.8	0.062	1.62	47.6	26.1	2.05	936	0.72	1.93	20.4	77.2	1310
S728940		1.73	14.85	0.09	1.9	0.022	1.25	11.2	7.8	0.55	317	0.14	2.73	4.2	19.9	300
S728941		5.16	18.30	0.17	4.4	0.054	1.60	39.3	22.3	2.09	805	0.49	2.06	19.3	84.3	1270
S728942		4.52	17.25	0.16	4.9	0.056	1.49	40.4	19.1	1.76	851	0.47	2.18	25.6	71.2	1440
S728943		5.72	18.15	0.15	5.1	0.055	1.54	51.0	25.8	2.10	1220	1.06	1.98	37.8	101.0	1460



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CERTIFICATE OF ANALYSIS VO16133520

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728925		14.1	65.7	<0.002	0.01	0.42	17.7	1	1.9	290	2.05	<0.05	10.60	0.708	2.3
S728926		12.5	62.1	<0.002	0.01	0.57	18.8	1	1.5	296	1.24	<0.05	9.08	0.570	1.8
S728927		8.1	40.8	<0.002	<0.01	0.80	26.6	1	1.3	358	1.01	<0.05	5.13	0.574	1.2
S728928		14.1	71.5	0.002	0.01	0.60	20.5	1	1.6	285	1.72	<0.05	10.95	0.579	2.8
S728929		15.9	51.2	0.002	0.01	0.64	23.3	1	1.3	319	0.85	<0.05	6.11	0.534	1.2
S728930		13.2	59.4	0.002	0.01	0.46	21.0	1	1.3	363	0.92	<0.05	7.23	0.501	1.5
S728931		13.2	66.8	0.002	<0.01	0.68	21.1	1	1.6	227	1.09	<0.05	8.21	0.620	1.7
S728932		13.0	65.4	0.002	0.01	0.66	19.7	2	1.5	244	1.08	<0.05	8.00	0.576	1.8
S728933		11.7	61.0	<0.002	0.01	0.67	19.9	1	1.5	260	0.95	<0.05	7.23	0.587	1.6
S728934		12.6	54.5	<0.002	<0.01	0.79	17.0	1	1.6	277	1.07	0.06	8.04	0.587	1.8
S728935		11.2	51.3	<0.002	0.01	1.09	24.5	2	1.5	208	0.80	0.07	5.82	0.597	1.2
S728936		11.5	57.7	0.002	0.01	0.80	20.8	2	1.5	219	1.02	0.05	7.86	0.592	1.7
S728937		13.4	70.0	<0.002	0.01	0.70	20.1	1	1.6	230	1.18	0.05	8.88	0.600	1.9
S728938		11.1	53.9	0.002	0.01	0.46	20.8	1	1.5	322	1.00	<0.05	6.97	0.586	1.5
S728939		12.6	71.1	<0.002	0.01	0.41	19.7	1	1.5	280	1.06	<0.05	8.64	0.623	1.9
S728940		8.1	48.5	<0.002	<0.01	0.09	7.4	<1	0.6	403	0.31	<0.05	2.08	0.207	0.5
S728941		11.6	64.5	<0.002	0.01	0.40	17.9	1	1.5	323	0.99	<0.05	7.63	0.586	1.7
S728942		11.2	54.3	0.002	<0.01	0.34	17.0	1	1.6	323	1.30	<0.05	7.24	0.674	1.6
S728943		13.0	65.3	<0.002	0.02	0.37	18.5	2	1.7	243	1.48	<0.05	9.99	0.698	2.4



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CERTIFICATE OF ANALYSIS VO16133520

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728925		128	0.7	23.4	90	230
S728926		131	1.0	21.1	87	182.5
S728927		180	1.1	19.2	75	117.5
S728928		146	0.9	22.1	96	184.0
S728929		159	0.7	18.2	89	130.0
S728930		140	0.6	18.9	82	158.5
S728931		148	0.8	21.5	99	169.5
S728932		144	0.8	20.6	91	170.5
S728933		162	1.1	20.9	81	154.0
S728934		116	1.3	22.3	67	206
S728935		161	1.6	21.1	104	145.0
S728936		150	0.7	19.9	92	177.0
S728937		144	0.7	19.8	104	160.5
S728938		148	0.9	22.2	94	177.5
S728939		154	0.9	23.8	102	188.0
S728940		49	0.1	8.2	22	71.0
S728941		138	0.8	21.3	88	176.0
S728942		128	0.8	21.8	89	189.0
S728943		144	0.7	22.4	109	198.5



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CERTIFICATE OF ANALYSIS VO16133520

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.
DRY-21 LOG-22 LOG-24 SCR-41
WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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CERTIFICATE VO16136727

Project: QK-2016-CHANNEL-001

This report is for 12 Rock samples submitted to our lab in Val d'Or, QC, Canada on 17-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

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ATTN: ARNAUD FONTAINE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS VO16136727

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137329		1.27	>10.0	20.1	4	4.01	>100000	150	<10	30	0.78	<10	16150	30	3420	25.1
P137330		1.17	>10.0	11.25	4	5.26	>100000	170	<10	20	1.12	<10	9560	40	8720	22.7
P137331		1.47	0.306		12	0.47	630	<50	<10	<20	0.49	10	10	30	3950	1.40
P137332		0.79	0.122		<1	0.88	70	140	<10	<20	0.08	<10	10	30	50	0.88
P137333		1.18	5.58		4	0.68	<50	60	<10	60	0.08	30	10	30	50	1.05
P137334		0.64	5.22		4	1.31	90	400	<10	<20	0.07	<10	<10	20	50	1.62
P137335		1.05	>10.0	189.0	51	0.55	60	60	<10	260	<0.05	50	10	30	200	3.56
P137336		2.00	>10.0	58.2	5	0.18	<50	<50	<10	80	<0.05	<10	<10	30	10	0.56
P137337		0.95	0.576		14	0.77	70	80	<10	110	0.14	20	<10	30	40	1.18
P137339		1.09	3.53		1	6.79	47100	200	<10	<20	1.67	<10	3280	50	3740	18.10
P137340		0.06	1.155		44	4.26	190	430	<10	20	1.61	130	270	30	30400	17.00
P137903		0.10	0.004		<1	3.08	<50	340	<10	<20	1.50	<10	10	50	30	2.00



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CERTIFICATE OF ANALYSIS VO16136727

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137329		<50	0.9	<50	0.79	600	10	0.51	60	510	<20	>10.0	50	10	80
P137330		<50	1.1	<50	1.09	770	10	0.69	30	680	20	7.66	<50	20	90
P137331		<50	0.2	<50	0.17	170	<10	<0.05	<10	<50	<20	0.77	2250	<10	10
P137332		<50	0.4	<50	<0.05	100	<10	0.36	10	70	20	0.12	<50	<10	20
P137333		<50	0.2	<50	<0.05	50	<10	0.25	<10	50	180	0.51	<50	<10	20
P137334		<50	1.5	<50	0.13	150	30	1.79	10	280	160	0.34	<50	<10	30
P137335		<50	0.2	<50	<0.05	60	10	0.22	10	<50	1480	2.68	<50	<10	10
P137336		<50	0.1	<50	<0.05	40	<10	<0.05	<10	<50	90	0.16	<50	<10	<10
P137337		<50	0.3	<50	<0.05	100	10	0.22	<10	60	220	0.52	<50	<10	20
P137339		<50	1.3	<50	1.44	1140	<10	0.81	20	770	<20	3.25	<50	20	110
P137340		<50	0.9	<50	1.23	660	20	0.48	20	550	6120	>10.0	60	10	40
P137903		<50	1.1	<50	0.37	300	<10	2.64	20	210	<20	0.06	<50	<10	300



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CERTIFICATE OF ANALYSIS VO16136727

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.05	50	50	10	50	20
P137329		0.46	<50	<50	110	<50	180
P137330		0.61	<50	<50	150	<50	200
P137331		0.05	<50	<50	10	<50	490
P137332		<0.05	<50	<50	10	<50	30
P137333		<0.05	<50	<50	<10	80	1480
P137334		0.09	<50	<50	20	<50	130
P137335		<0.05	<50	<50	<10	730	3030
P137336		<0.05	<50	<50	<10	<50	60
P137337		<0.05	<50	<50	<10	<50	1590
P137339		0.73	<50	<50	210	<50	260
P137340		0.12	<50	<50	30	<50	23600
P137903		0.14	<50	<50	40	<50	50



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CERTIFICATE OF ANALYSIS VO16136727

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-GRA22	Au-ICP22	ME-ICP61a
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-31	PUL-QC	SPL-21
	WSH-21	WSH-22	WEI-21



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Account: LZIBAC

CERTIFICATE VO16136735

Project: QK-2016-FS-004

This report is for 134 Rock samples submitted to our lab in Val d'Or, QC, Canada on 17-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
OA-HSUL10	Handling of High Sulphide Samples
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

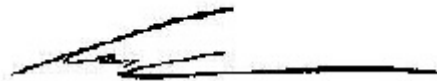
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P132315		1.09	0.001		<1	6.63	<50	80	<10	<20	5.47	<10	40	130	80	7.05
P132316		1.86	0.001		<1	0.67	<50	60	<10	<20	1.30	<10	10	30	50	1.69
P132317		1.32	0.083		<1	5.04	<50	90	<10	<20	5.33	<10	30	60	50	8.01
P132318		1.52	0.003		<1	4.86	<50	200	<10	<20	3.40	<10	20	100	30	4.70
P132319		1.59	0.008		<1	4.81	160	330	<10	<20	6.35	<10	40	780	<10	7.83
P132320		0.06	1.050		2	2.95	630	1400	<10	<20	3.60	<10	730	30	16900	27.5
P132321		1.36	0.003		<1	4.95	<50	220	<10	<20	6.08	<10	30	80	60	7.61
P132322		1.21	0.003		1	5.46	<50	670	<10	<20	2.05	<10	10	140	10	2.28
P132323		1.91	0.006		<1	4.71	<50	1030	<10	<20	2.92	<10	20	100	30	4.65
P132324		1.68	0.003		<1	7.16	<50	370	<10	<20	2.60	<10	40	10	120	8.99
P132325		2.63	1.015		1	0.29	280	<50	<10	<20	0.35	<10	60	100	5930	1.42
P132326		2.16	0.100		1	1.97	<50	<50	<10	<20	1.63	<10	650	300	1200	36.5
P132327		2.15	0.011		<1	5.05	<50	70	<10	<20	7.91	<10	130	750	1080	17.85
P132328		2.11	0.001		<1	5.91	<50	250	<10	<20	5.59	<10	40	60	130	7.40
P132329		1.84	0.001		<1	3.06	250	50	<10	<20	11.30	<10	50	880	120	5.40
P132330		1.60	0.003		<1	1.01	<50	<50	<10	<20	3.47	<10	10	250	1500	1.92
P132331		1.77	0.015		2	1.17	120	<50	<10	<20	0.20	10	20	80	490	12.35
P132332		1.63	0.016		1	0.73	930	<50	<10	<20	1.18	<10	20	50	160	7.37
P132596		1.47	0.001		<1	1.05	<50	780	<10	<20	<0.05	<10	10	20	10	1.96
P132597		1.30	<0.001		<1	2.97	<50	500	<10	<20	2.93	<10	20	20	10	2.80
P132598		2.16	0.075		1	6.74	<50	70	<10	<20	10.50	<10	50	30	1170	8.65
P132599		2.26	0.109		<1	6.72	50	<50	<10	<20	10.45	<10	60	10	6860	13.20
P132600		0.06	2.44		4	2.20	<50	320	<10	<20	4.06	<10	10	30	80	2.87
P132601		0.57	0.001		<1	5.25	<50	880	<10	<20	8.87	<10	20	360	50	3.94
P132602		1.89	0.157		8	2.12	50	150	<10	<20	0.68	30	40	80	450	29.2
P132603		0.88	0.003		<1	3.24	770	100	<10	<20	5.50	<10	80	1130	40	6.64
P132604		1.50	0.016		<1	0.05	<50	<50	<10	<20	<0.05	<10	10	50	100	11.15
P132994		1.63	0.017		<1	4.23	80	310	<10	<20	2.01	<10	40	200	430	15.90
P132995		1.56	0.004		<1	6.70	60	130	<10	<20	0.50	<10	20	180	50	5.46
P132996		1.46	0.015		1	0.10	<50	<50	<10	<20	0.62	<10	<10	40	10	0.41
P132997		2.31	0.120		<1	4.38	<50	100	<10	<20	0.32	<10	60	130	1280	20.3
P132998		2.15	0.028		1	3.23	<50	<50	<10	<20	0.23	<10	30	70	1010	23.3
P132999		0.73	0.013		<1	4.31	<50	100	<10	<20	0.67	<10	30	60	460	8.02
P133000		1.24	0.051		<1	6.15	290	860	<10	<20	9.38	<10	80	1280	100	6.95
P137320		0.13	0.001		<1	3.18	<50	350	<10	<20	1.55	<10	10	60	10	1.45
P137321		0.99	0.002		1	1.03	<50	4360	<10	<20	<0.05	10	10	20	<10	1.28
P137322		1.41	0.010		<1	3.20	<50	120	<10	<20	3.97	<10	100	10	230	8.84
P137323		1.90	0.007		<1	3.85	<50	100	<10	<20	1.15	<10	50	10	90	8.73
P137324		1.26	0.003		<1	3.63	<50	610	<10	<20	1.40	<10	30	10	20	5.76
P137325		1.80	0.001		<1	0.25	<50	<50	<10	<20	2.06	<10	10	40	280	0.68



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P132315		<50	0.2	<50	3.69	1270	<10	1.94	50	430	<20	<0.05	<50	20	210
P132316		<50	<0.1	<50	0.43	460	<10	0.06	<10	<50	<20	<0.05	<50	<10	30
P132317		<50	0.1	<50	2.13	1900	<10	2.08	30	820	<20	3.01	<50	10	380
P132318		<50	0.3	<50	1.93	620	<10	2.89	40	460	<20	2.26	<50	10	240
P132319		<50	2.1	<50	4.92	1960	<10	0.17	200	800	<20	0.08	<50	20	290
P132320		<50	2.4	260	1.00	4830	320	0.29	70	930	40	3.91	<50	10	250
P132321		<50	0.3	<50	1.93	1610	<10	1.40	30	1050	<20	2.85	<50	20	270
P132322		<50	1.2	<50	2.14	350	<10	2.25	30	390	<20	0.37	<50	10	90
P132323		<50	1.4	<50	1.71	540	<10	1.15	20	460	<20	2.63	<50	10	100
P132324		<50	1.8	<50	1.80	460	<10	2.68	10	450	<20	0.59	<50	10	320
P132325		<50	0.1	<50	0.15	100	<10	0.11	290	<50	30	0.66	<50	<10	10
P132326		<50	0.1	<50	1.88	460	30	0.11	2500	170	<20	>10.0	<50	10	20
P132327		<50	0.4	<50	3.94	1380	<10	0.43	300	460	<20	2.92	<50	30	110
P132328		<50	0.7	<50	2.40	920	<10	2.06	50	420	<20	1.28	<50	20	210
P132329		<50	1.1	<50	4.66	1610	<10	0.06	530	180	<20	0.29	<50	20	220
P132330		<50	0.4	<50	0.54	470	<10	<0.05	110	<50	<20	0.22	<50	<10	40
P132331		<50	0.1	<50	0.46	240	10	<0.05	210	130	120	9.04	<50	<10	<10
P132332		<50	0.1	<50	0.31	280	<10	<0.05	100	150	110	6.69	<50	<10	10
P132596		<50	3.5	<50	<0.05	20	<10	0.69	10	60	20	2.38	<50	<10	20
P132597		<50	1.3	<50	0.75	670	<10	3.01	10	480	<20	0.59	<50	<10	70
P132598		<50	0.1	<50	1.52	3790	<10	1.26	20	910	<20	0.05	<50	30	140
P132599		<50	0.2	<50	2.01	4560	<10	0.55	20	740	<20	0.23	<50	30	110
P132600		<50	2.1	<50	0.67	730	10	0.89	10	590	20	0.85	<50	10	240
P132601		<50	5.2	<50	2.40	870	<10	1.46	50	330	<20	0.14	<50	20	100
P132602		<50	0.8	<50	0.65	380	30	0.32	1700	640	260	>10.0	70	10	40
P132603		<50	1.0	<50	7.89	1160	<10	0.07	840	180	<20	0.23	<50	20	170
P132604		<50	<0.1	<50	<0.05	50	<10	<0.05	40	130	<20	8.10	<50	<10	<10
P132994		<50	<0.1	<50	1.69	1180	30	0.08	220	810	40	8.24	<50	10	270
P132995		<50	0.1	<50	3.74	600	<10	3.57	80	400	<20	2.78	<50	10	120
P132996		<50	<0.1	<50	0.05	100	<10	<0.05	<10	<50	20	<0.05	<50	<10	<10
P132997		<50	0.7	<50	0.80	530	<10	0.06	230	320	20	>10.0	<50	20	20
P132998		<50	0.2	<50	0.78	560	20	<0.05	340	280	20	>10.0	<50	10	10
P132999		<50	0.5	<50	0.73	440	10	3.31	140	920	<20	4.29	<50	10	90
P133000		<50	2.8	<50	3.32	1630	<10	0.39	610	150	90	0.12	480	30	250
P137320		<50	1.1	<50	0.37	260	<10	2.67	20	170	<20	<0.05	<50	<10	300
P137321		<50	4.1	<50	<0.05	20	10	0.36	10	160	70	1.03	<50	<10	40
P137322		<50	0.1	<50	1.20	790	<10	2.19	10	380	<20	5.14	<50	20	80
P137323		<50	0.1	<50	2.40	730	<10	2.16	<10	650	<20	5.55	<50	20	100
P137324		<50	1.1	<50	0.99	320	<10	2.39	<10	460	<20	5.59	<50	30	80
P137325		<50	<0.1	<50	0.10	260	<10	0.09	10	<50	<20	0.17	<50	<10	10



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	Cu-OG62
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.05	50	50	10	50	20	0.001
P132315		0.59	<50	<50	260	<50	150	
P132316		<0.05	<50	<50	40	<50	40	
P132317		0.64	<50	<50	250	<50	120	
P132318		0.21	<50	<50	150	<50	60	
P132319		0.33	<50	<50	160	<50	130	
P132320		0.28	<50	<50	120	190	50	
P132321		0.69	<50	<50	260	<50	110	
P132322		0.31	<50	<50	180	<50	50	
P132323		0.27	<50	<50	160	<50	70	
P132324		0.68	<50	<50	270	<50	50	
P132325		<0.05	<50	<50	10	<50	40	
P132326		0.20	<50	<50	80	<50	40	
P132327		0.71	<50	<50	260	<50	70	
P132328		0.55	<50	<50	310	<50	50	
P132329		0.30	<50	<50	140	<50	80	
P132330		0.05	<50	<50	40	<50	60	
P132331		0.13	<50	<50	90	<50	830	
P132332		<0.05	<50	<50	60	<50	490	
P132596		<0.05	<50	<50	10	<50	<20	
P132597		0.34	<50	<50	70	<50	50	
P132598		0.74	<50	<50	360	<50	110	
P132599		0.62	<50	<50	310	<50	150	
P132600		0.27	<50	<50	110	<50	90	
P132601		0.15	<50	<50	100	<50	60	
P132602		0.21	<50	<50	380	<50	7580	
P132603		0.33	<50	<50	160	<50	60	
P132604		<0.05	<50	<50	60	<50	300	
P132994		0.24	<50	<50	160	<50	240	
P132995		0.53	<50	<50	160	<50	130	
P132996		<0.05	<50	<50	<10	<50	20	
P132997		0.24	<50	<50	170	<50	470	
P132998		0.21	<50	<50	110	<50	910	
P132999		0.37	<50	<50	120	<50	490	
P133000		0.24	<50	<50	220	<50	170	
P137320		0.14	<50	<50	40	<50	20	
P137321		<0.05	<50	<50	10	<50	1740	
P137322		0.43	<50	<50	250	<50	30	
P137323		0.44	<50	<50	180	<50	40	
P137324		0.49	<50	<50	360	<50	20	
P137325		<0.05	<50	<50	10	<50	<20	



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au-GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137326		1.35	0.001		<1	0.11	<50	<50	<10	<20	0.71	<10	<10	40	1930	0.65
P137327		0.99	0.053		1	0.09	<50	230	<10	<20	0.33	<10	<10	30	12300	2.10
P137328		0.60	0.044		<1	2.50	320	<50	<10	<20	0.31	<10	20	90	350	21.0
P137338		1.93	1.020		6	0.60	740	<50	<10	<20	0.62	<10	60	100	17800	2.57
P137341		1.99	>10.0	31.9	30	0.58	760	70	<10	<20	<0.05	<10	70	100	17500	2.76
P137342		1.52	1.280		9	1.08	590	100	<10	<20	0.51	<10	40	310	8870	1.66
P137343		0.66	0.007		<1	2.69	<50	590	<10	<20	3.37	<10	20	10	40	2.45
P137344		2.45	0.013		<1	5.76	<50	200	<10	<20	3.02	<10	30	20	810	9.79
P137345		1.87	0.309		<1	6.30	<50	150	<10	<20	1.97	<10	30	10	300	7.11
P137346		1.18	0.005		<1	4.17	<50	550	<10	<20	3.06	<10	30	60	20	4.22
P137347		1.47	0.738		1	0.30	80	<50	<10	<20	0.18	<10	10	110	670	0.98
P137348		1.67	0.013		<1	4.04	<50	250	<10	<20	3.07	<10	40	90	20	7.46
P137349		1.06	0.074		6	0.96	<50	<50	<10	<20	1.02	<10	10	60	3420	2.93
P137350		1.63	0.003		<1	6.72	<50	220	<10	<20	7.34	<10	20	140	10	5.95
P137351		1.65	0.006		<1	4.95	<50	1120	<10	<20	3.20	<10	20	130	20	5.17
P137352		1.56	0.003		<1	5.26	<50	450	<10	<20	5.66	<10	30	80	30	5.54
P137353		1.67	0.004		<1	4.88	<50	300	<10	<20	3.37	<10	10	130	10	4.43
P137354		1.54	0.087		<1	3.75	530	390	<10	<20	0.99	<10	70	20	670	5.35
P137355		1.41	0.002		<1	4.75	<50	1150	<10	<20	4.52	<10	50	70	40	5.20
P137356		2.19	7.65		7	6.84	<50	80	<10	<20	7.38	<10	40	70	17500	12.95
P137357		1.84	0.004		<1	5.82	70	480	<10	<20	6.46	<10	30	10	150	8.31
P137671		0.54	3.66		3	7.94	52300	320	<10	20	1.35	<10	3000	10	1170	17.75
P137672		1.01	0.024		<1	1.58	<50	80	<10	<20	0.54	<10	10	20	740	2.68
P137673		1.76	1.155		25	6.60	<50	230	<10	<20	2.08	<10	10	30	21000	14.00
P137674		1.89	0.043		2	0.40	<50	<50	<10	<20	0.21	<10	10	30	970	1.30
P137675		2.52	0.232		2	4.63	70	420	<10	<20	0.44	<10	30	20	2730	6.48
P137676		1.44	0.148		3	0.18	<50	<50	<10	<20	0.29	<10	10	30	1120	1.42
P137677		1.02	2.01		2	4.56	1060	160	<10	<20	1.30	<10	800	10	2370	4.63
P137678		1.85	1.365		6	5.73	370	230	<10	<20	1.75	<10	130	20	6200	8.42
P137679		1.56	0.007		<1	1.98	<50	430	<10	<20	0.69	<10	30	40	280	2.36
P137680		0.06	1.135		46	4.11	100	420	<10	40	1.52	140	270	30	31200	15.75
P137681		2.14	4.18		2	4.97	32000	240	<10	<20	1.29	<10	1570	20	800	6.08
P137682		1.66	2.88		2	7.10	61000	250	<10	20	1.38	<10	2650	40	3790	15.80
P137683		1.62	0.028		<1	3.68	60	280	<10	20	3.74	<10	90	30	1110	9.79
P137684		1.62	0.001		<1	6.83	50	340	<10	<20	7.25	<10	30	50	60	8.19
P137685		0.93	0.003		<1	4.32	<50	<50	<10	<20	9.40	<10	10	40	40	5.23
P137686		0.99	0.001		<1	3.65	<50	190	<10	<20	6.14	<10	20	40	80	3.29
P137687		2.38	>10.0	12.65	17	1.17	580	80	<10	<20	1.89	<10	60	190	14750	3.27
P137688		1.78	0.077		6	4.81	<50	60	<10	<20	0.96	<10	30	10	8810	11.90
P137689		1.87	0.008		<1	4.66	<50	300	<10	<20	8.59	<10	20	10	740	7.00



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137326		<50	<0.1	<50	0.05	110	<10	<0.05	10	<50	<20	0.21	<50	<10	10
P137327		<50	<0.1	<50	0.05	80	<10	<0.05	10	<50	<20	1.34	<50	<10	10
P137328		<50	<0.1	<50	1.89	570	10	<0.05	190	820	<20	>10.0	<50	10	10
P137338		<50	0.3	<50	0.27	110	<10	<0.05	410	<50	<20	1.91	<50	<10	30
P137341		<50	0.4	<50	<0.05	30	<10	<0.05	410	<50	<20	2.56	<50	<10	<10
P137342		<50	0.5	<50	0.29	140	<10	0.05	220	70	<20	0.85	<50	<10	30
P137343		<50	0.7	<50	1.14	230	10	2.24	<10	630	<20	2.11	<50	<10	140
P137344		<50	1.2	<50	1.21	950	<10	1.79	10	910	<20	0.57	<50	20	190
P137345		<50	0.7	<50	0.57	570	<10	3.81	10	1280	<20	1.73	<50	10	190
P137346		<50	0.3	<50	2.28	540	<10	2.31	30	370	<20	2.80	<50	10	160
P137347		<50	0.1	<50	0.09	50	<10	<0.05	40	<50	<20	0.65	<50	<10	<10
P137348		<50	0.4	<50	1.88	840	<10	2.22	50	340	<20	4.08	<50	10	190
P137349		<50	<0.1	<50	0.44	210	<10	0.27	10	80	<20	0.83	<50	<10	20
P137350		<50	0.5	<50	2.33	1160	<10	1.78	40	360	<20	3.04	<50	20	230
P137351		<50	1.4	<50	2.04	610	<10	2.32	60	400	<20	3.35	<50	10	190
P137352		<50	0.6	<50	2.00	1390	<10	1.47	30	420	<20	2.45	<50	10	260
P137353		<50	0.6	<50	1.98	530	<10	3.25	50	440	<20	3.10	<50	10	230
P137354		<50	1.3	<50	1.11	270	<10	1.56	10	200	<20	1.08	<50	<10	170
P137355		<50	1.0	<50	1.42	650	<10	1.74	40	520	<20	0.76	<50	10	140
P137356		<50	0.5	<50	2.40	1040	<10	0.54	20	800	<20	1.67	<50	30	270
P137357		<50	0.7	<50	1.00	1750	<10	2.24	<10	1340	<20	0.62	<50	30	290
P137671		<50	1.5	<50	2.00	1070	<10	0.76	30	410	<20	2.75	<50	20	140
P137672		<50	0.5	<50	0.33	220	<10	0.34	<10	90	<20	0.08	<50	<10	70
P137673		<50	1.2	<50	1.59	1030	<10	1.29	10	1210	<20	2.14	<50	20	210
P137674		<50	<0.1	<50	0.19	120	<10	<0.05	<10	<50	<20	0.12	<50	<10	10
P137675		<50	2.8	<50	1.05	400	<10	1.84	<10	310	<20	0.36	<50	10	120
P137676		<50	<0.1	<50	<0.05	70	<10	0.06	<10	<50	<20	0.08	<50	<10	10
P137677		<50	1.5	<50	1.05	440	<10	0.94	20	250	<20	0.26	<50	<10	70
P137678		<50	1.8	<50	1.10	540	<10	0.68	<10	650	<20	0.72	<50	10	110
P137679		<50	0.6	<50	0.31	180	<10	0.26	10	210	<20	0.54	<50	10	10
P137680		<50	0.9	<50	1.23	660	20	0.48	20	540	6120	>10.0	80	10	40
P137681		<50	1.2	<50	0.48	290	<10	1.61	10	260	<20	1.58	<50	10	130
P137682		<50	1.8	<50	1.37	820	<10	0.96	10	1160	<20	3.09	<50	20	120
P137683		<50	1.3	<50	0.88	740	<10	2.11	20	1370	<20	2.41	<50	10	280
P137684		<50	2.5	<50	1.55	1560	<10	1.02	10	1480	<20	0.16	<50	30	230
P137685		<50	<0.1	<50	0.65	1070	<10	0.09	10	670	<20	0.07	<50	10	360
P137686		<50	0.4	<50	0.66	1070	<10	2.11	10	570	<20	0.13	<50	10	250
P137687		<50	0.4	<50	0.82	370	<10	0.05	360	<50	<20	1.32	<50	<10	80
P137688		<50	0.5	<50	2.12	1130	<10	0.05	10	480	<20	0.83	<50	10	30
P137689		<50	2.4	<50	1.01	880	<10	1.03	10	460	<20	0.09	<50	10	140



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	Cu-OG62
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.05	50	50	10	50	20	0.001
P137326		<0.05	<50	<50	<10	<50	<20	
P137327		<0.05	<50	<50	10	<50	<20	
P137328		0.20	<50	<50	180	<50	60	
P137338		<0.05	<50	<50	20	<50	<20	
P137341		<0.05	<50	<50	30	<50	40	
P137342		<0.05	<50	<50	50	<50	50	
P137343		0.29	<50	<50	120	<50	20	
P137344		0.73	<50	<50	210	<50	60	
P137345		0.74	<50	<50	110	<50	40	
P137346		0.23	<50	<50	130	<50	60	
P137347		<0.05	<50	<50	10	<50	<20	
P137348		0.35	<50	<50	170	<50	70	
P137349		0.10	<50	<50	30	<50	50	
P137350		0.46	<50	<50	190	<50	90	
P137351		0.32	<50	<50	170	<50	60	
P137352		0.26	<50	<50	150	<50	100	
P137353		0.28	<50	<50	170	<50	50	
P137354		0.14	<50	<50	30	<50	30	
P137355		0.45	<50	<50	220	<50	50	
P137356		0.82	<50	<50	270	<50	190	
P137357		0.97	<50	<50	190	<50	120	
P137671		0.53	<50	<50	170	<50	150	
P137672		0.14	<50	<50	40	<50	20	
P137673		0.99	<50	<50	210	<50	210	
P137674		<0.05	<50	<50	10	<50	30	
P137675		0.31	<50	<50	100	<50	40	
P137676		<0.05	<50	<50	<10	<50	20	
P137677		0.18	<50	<50	40	<50	140	
P137678		0.42	<50	<50	100	<50	120	
P137679		0.19	<50	<50	60	<50	20	
P137680		0.12	<50	<50	30	<50	24000	
P137681		0.17	<50	<50	40	<50	50	
P137682		0.86	<50	<50	180	<50	110	
P137683		0.89	<50	<50	210	<50	60	
P137684		0.97	<50	<50	300	<50	80	
P137685		0.56	<50	<50	270	<50	40	
P137686		0.50	<50	<50	130	<50	40	
P137687		0.05	<50	<50	40	<50	50	
P137688		0.34	<50	<50	90	<50	310	
P137689		0.41	<50	<50	110	<50	80	



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	Au-ICP22 Au ppm	ME-ICP61a Ag ppm	ME-ICP61a Al %	ME-ICP61a As ppm	ME-ICP61a Ba ppm	ME-ICP61a Be ppm	ME-ICP61a Bi ppm	ME-ICP61a Ca %	ME-ICP61a Cd ppm	ME-ICP61a Co ppm	ME-ICP61a Cr ppm	ME-ICP61a Cu ppm	ME-ICP61a Fe %
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137690		1.16	0.209		3	0.79	<50	<50	<10	<20	1.84	<10	10	40	5000	2.75
P137691		1.66	0.012		1	7.61	<50	720	<10	<20	2.10	<10	80	50	1480	14.25
P137692		1.75	0.001		<1	5.18	<50	2210	<10	<20	10.35	<10	30	150	110	3.56
P137693		1.84	0.023		1	7.68	220	510	<10	<20	1.19	<10	100	40	2750	9.66
P137694		3.18	1.275		4	4.86	<50	<50	<10	<20	2.42	<10	400	710	5080	21.9
P137695		2.53	0.017		<1	4.47	400	110	<10	<20	9.77	<10	110	330	40	9.55
P137696		1.32	0.027		<1	3.59	130	60	<10	<20	9.46	<10	120	490	530	11.70
P137697		3.57	0.666		5	4.19	90	<50	<10	20	5.10	<10	720	210	6240	15.60
P137698		1.63	0.006		<1	5.06	<50	<50	<10	<20	7.00	<10	70	860	380	14.95
P137699		1.18	0.001		<1	4.35	390	220	<10	<20	7.41	<10	60	740	110	5.87
P137700		0.17	0.001		<1	3.23	<50	350	<10	<20	1.44	<10	10	50	10	1.51
P137701		1.72	0.047		<1	4.75	<50	200	<10	<20	2.57	<10	40	40	2520	11.35
P137702		1.64	0.493		<1	7.72	1890	90	<10	40	1.96	<10	50	20	620	18.90
P137703		2.06	0.344		1	4.23	<50	50	<10	<20	1.34	<10	180	20	3710	29.9
P137704		1.90	0.034		<1	2.32	650	130	<10	<20	0.20	<10	30	20	1260	2.32
P137705		0.64	0.055		<1	3.67	<50	70	<10	<20	5.99	<10	90	800	410	12.75
P137706		2.01	>10.0	13.20	7	3.95	320	100	<10	130	1.77	<10	200	20	17100	6.21
P137707		0.72	2.50		33	3.53	1560	160	<10	200	1.47	10	520	10	>100000	13.80
P137708		1.56	0.014		<1	2.58	520	160	<10	<20	10.35	<10	50	800	70	5.32
P137709		1.66	0.007		<1	4.92	<50	440	<10	<20	4.79	<10	30	120	60	6.69
P137710		1.62	0.002		1	3.32	<50	80	<10	<20	9.31	<10	70	980	130	7.43
P137711		1.33	0.011		<1	5.94	<50	570	<10	<20	1.70	<10	30	20	70	9.54
P137712		1.02	0.005		<1	3.81	410	230	<10	<20	7.63	<10	60	1030	20	5.59
P137713		1.02	0.009		<1	1.13	150	90	<10	<20	12.80	<10	20	260	20	5.00
P137714		1.17	<0.001		<1	6.13	<50	330	<10	<20	4.72	<10	30	100	10	3.44
P137715		1.45	0.006		<1	3.87	820	100	<10	<20	10.50	<10	70	960	90	5.21
P137716		2.33	9.24		1	8.34	50700	280	<10	230	1.42	<10	8150	20	160	15.80
P137717		1.11	>10.0	21.7	5	3.01	>100000	100	<10	100	0.54	<10	5380	20	640	18.15
P137718		1.24	0.007		<1	3.80	90	270	<10	<20	10.15	<10	60	990	110	6.27
P137719		1.25	1.365		1	6.21	3080	130	<10	<20	1.10	<10	530	50	1930	22.6
P137720		0.11	0.001		<1	3.59	<50	360	<10	<20	1.49	<10	<10	60	20	1.96
P137721		1.67	0.032		<1	5.03	310	<50	<10	<20	0.75	10	90	430	510	18.75
P137722		0.75	0.017		1	3.11	<50	<50	<10	<20	0.26	<10	110	270	1280	27.3
P137723		4.00	0.010		1	4.58	<50	230	<10	<20	0.43	<10	60	450	2400	11.60
P137724		1.30	0.033		<1	2.30	440	<50	<10	<20	10.35	<10	40	720	50	7.59
P137725		1.53	0.005		<1	3.30	520	100	<10	<20	6.54	<10	60	980	10	5.13
P137728		2.76	0.008		1	0.20	<50	<50	<10	<20	<0.05	<10	230	30	20	8.77
P137801		1.55	0.007		<1	4.96	420	290	<10	<20	8.12	<10	40	850	70	4.63
P137802		1.22	0.101		5	6.17	320	980	<10	30	8.20	<10	70	1290	90	7.10
P137803		1.60	0.019		2	0.32	<50	90	<10	<20	1.15	<10	<10	90	20	0.62



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137690		<50	<0.1	<50	0.38	190	<10	<0.05	10	230	<20	0.44	<50	<10	20
P137691		<50	2.9	<50	2.30	900	<10	0.78	10	1860	<20	1.16	<50	30	190
P137692		<50	1.1	<50	2.26	830	<10	3.85	80	1370	<20	0.11	<50	20	300
P137693		<50	4.0	<50	2.14	520	<10	1.34	10	1520	<20	0.30	<50	20	60
P137694		<50	0.1	<50	4.42	920	<10	0.12	200	360	<20	5.31	<50	20	10
P137695		<50	1.6	<50	2.75	1200	<10	0.54	410	370	<20	0.10	<50	20	330
P137696		<50	0.8	<50	3.78	1360	<10	<0.05	490	300	<20	2.08	<50	20	240
P137697		<50	<0.1	<50	2.53	790	10	0.80	670	260	<20	8.71	<50	10	60
P137698		<50	0.3	<50	5.77	1530	<10	0.59	460	410	<20	0.47	<50	30	50
P137699		<50	1.9	<50	5.10	1370	<10	0.10	420	550	<20	0.09	<50	20	210
P137700		<50	1.0	<50	0.40	270	<10	2.67	20	180	<20	<0.05	<50	<10	290
P137701		<50	0.7	<50	1.82	720	<10	0.27	30	570	<20	1.94	<50	20	40
P137702		<50	0.6	<50	2.99	2140	<10	0.30	10	840	<20	1.56	<50	20	40
P137703		<50	0.4	<50	2.01	1370	<10	0.12	60	460	<20	>10.0	<50	20	20
P137704		<50	0.5	<50	0.47	150	<10	3.68	10	120	<20	0.75	<50	<10	60
P137705		<50	0.1	<50	7.02	1230	<10	<0.05	660	300	<20	0.43	<50	20	150
P137706		<50	1.3	<50	0.87	340	<10	0.73	10	880	<20	1.84	<50	10	70
P137707		<50	1.2	<50	0.61	330	<10	0.37	50	620	20	8.12	<50	10	30
P137708		<50	1.0	<50	7.46	1300	<10	0.07	550	460	<20	<0.05	<50	20	300
P137709		<50	0.4	<50	2.23	690	<10	2.31	50	410	<20	5.43	<50	10	200
P137710		<50	0.4	<50	6.59	1170	<10	0.26	1040	210	<20	0.49	<50	20	300
P137711		<50	1.0	<50	3.13	1020	<10	2.81	20	220	<20	5.08	<50	10	170
P137712		<50	0.9	<50	6.55	1240	<10	<0.05	630	310	<20	<0.05	<50	20	280
P137713		<50	0.5	<50	5.61	1180	<10	<0.05	150	<50	<20	0.05	<50	10	670
P137714		<50	0.7	<50	2.21	640	<10	4.67	70	260	<20	<0.05	<50	10	710
P137715		<50	1.0	<50	5.65	1190	<10	0.10	720	270	<20	0.11	<50	20	260
P137716		<50	1.1	<50	1.85	1040	<10	1.64	90	650	<20	2.65	<50	20	150
P137717		<50	0.3	<50	0.76	630	<10	0.20	30	310	<20	7.54	50	10	30
P137718		<50	1.1	<50	6.35	1520	<10	0.10	690	310	<20	0.34	<50	20	280
P137719		<50	0.3	<50	1.84	1320	<10	0.73	50	950	<20	5.95	<50	20	120
P137720		<50	1.1	<50	0.41	310	<10	2.65	20	180	<20	<0.05	<50	<10	320
P137721		<50	0.1	<50	5.31	850	10	0.20	440	800	30	>10.0	<50	20	20
P137722		<50	<0.1	<50	1.38	550	10	<0.05	590	670	30	>10.0	<50	10	<10
P137723		<50	0.5	<50	1.62	530	<10	3.06	110	350	<20	7.15	<50	20	150
P137724		<50	0.1	<50	8.03	1820	<10	0.08	420	110	<20	0.12	<50	10	390
P137725		<50	0.6	<50	6.77	870	<10	0.06	770	270	<20	<0.05	<50	20	130
P137728		<50	0.1	<50	<0.05	40	<10	<0.05	30	<50	<20	9.66	<50	<10	<10
P137801		<50	0.7	<50	2.21	1050	<10	3.12	350	320	<20	0.14	50	30	210
P137802		<50	2.6	<50	3.35	1560	<10	0.21	600	140	640	0.13	450	40	250
P137803		<50	0.1	<50	0.10	130	<10	<0.05	20	<50	220	0.07	<50	<10	10



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	Cu-OG62
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.05	50	50	10	50	20	0.001
P137690		0.07	<50	<50	20	<50	40	
P137691		1.29	<50	<50	290	<50	100	
P137692		0.79	<50	<50	110	<50	80	
P137693		1.15	<50	<50	220	<50	50	
P137694		0.52	<50	<50	180	<50	160	
P137695		0.45	<50	<50	220	<50	40	
P137696		0.42	<50	<50	190	<50	60	
P137697		0.33	<50	<50	100	<50	70	
P137698		0.71	<50	<50	280	<50	80	
P137699		0.38	<50	<50	180	<50	40	
P137700		0.14	<50	<50	40	<50	20	
P137701		0.54	<50	<50	180	<50	50	
P137702		0.77	<50	<50	210	<50	150	
P137703		0.49	<50	<50	150	130	90	
P137704		0.16	<50	<50	30	<50	20	
P137705		0.50	<50	<50	190	<50	80	
P137706		0.41	<50	<50	60	<50	200	
P137707		0.30	<50	<50	50	<50	890	10.25
P137708		0.19	<50	<50	120	<50	50	
P137709		0.32	<50	<50	170	<50	70	
P137710		0.24	<50	<50	150	<50	70	
P137711		0.44	<50	<50	370	<50	170	
P137712		0.29	<50	<50	170	<50	40	
P137713		0.06	<50	<50	50	<50	30	
P137714		0.36	<50	<50	140	<50	40	
P137715		0.30	<50	<50	160	<50	<20	
P137716		0.62	<50	<50	190	<50	60	
P137717		0.28	<50	<50	90	<50	40	
P137718		0.23	<50	<50	180	<50	60	
P137719		0.66	<50	<50	200	<50	90	
P137720		0.14	<50	<50	40	<50	30	
P137721		0.35	<50	<50	230	<50	400	
P137722		0.23	<50	<50	230	<50	580	
P137723		0.33	<50	<50	350	<50	320	
P137724		0.13	<50	<50	110	<50	100	
P137725		0.29	<50	<50	150	<50	50	
P137728		<0.05	<50	<50	10	<50	<20	
P137801		0.18	<50	<50	140	<50	50	
P137802		0.24	<50	<50	220	<50	200	
P137803		<0.05	<50	<50	10	<50	20	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	Au- GRA22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.05	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05
P137804		1.95	0.019		<1	5.69	440	400	<10	<20	5.87	<10	30	30	50	6.53
P137805		1.46	0.069		<1	1.43	1130	470	<10	<20	0.07	<10	<10	10	40	0.56
P137806		1.14	0.299		1	1.64	<50	900	<10	<20	0.32	<10	<10	20	870	0.48
P137807		2.04	0.002		<1	4.43	290	360	<10	<20	8.85	<10	50	1110	60	5.86
P137808		1.82	0.032		4	4.98	50	400	<10	<20	0.20	<10	20	20	760	9.34
P137809		1.80	0.052		12	5.64	<50	680	<10	<20	0.22	<10	40	20	970	11.95
P137810		1.61	0.007		24	0.89	<50	860	<10	<20	<0.05	40	10	40	20	2.70
P137811		2.00	0.037		<1	3.57	<50	440	<10	<20	0.21	<10	10	40	50	4.25
P137812		1.75	0.002		<1	1.86	360	<50	<10	<20	12.10	<10	70	1440	20	6.21
P137813		0.96	0.005		<1	7.23	<50	190	<10	<20	6.20	<10	30	210	60	6.92
P137814		1.66	0.031		<1	5.76	680	170	<10	<20	6.23	<10	30	20	60	7.36
P137815		2.06	0.026		<1	6.31	2780	130	<10	<20	3.79	<10	30	20	60	8.57
P137816		2.09	0.060		<1	0.75	<50	<50	<10	<20	0.24	<10	<10	40	10	0.56
P137817		0.86	2.93		2	0.22	1870	<50	<10	40	<0.05	20	<10	30	130	2.77



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		50	0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10
P137804		<50	1.5	<50	1.81	1550	<10	2.07	20	330	<20	0.28	<50	30	190
P137805		<50	1.6	<50	<0.05	50	<10	3.81	<10	50	20	0.09	<50	<10	30
P137806		<50	0.7	<50	<0.05	50	<10	4.17	<10	<50	<20	0.05	<50	<10	80
P137807		<50	1.5	<50	5.75	1110	<10	0.10	510	100	<20	<0.05	<50	30	310
P137808		<50	0.6	<50	2.74	1430	<10	2.60	10	620	140	3.67	<50	10	90
P137809		<50	0.8	<50	2.43	2240	10	1.87	10	680	750	4.60	<50	10	80
P137810		<50	3.5	<50	<0.05	30	10	0.19	50	150	6630	3.52	<50	<10	20
P137811		<50	2.8	<50	1.06	220	<10	0.61	20	690	<20	1.86	<50	10	40
P137812		<50	0.1	<50	7.24	1990	<10	<0.05	780	230	<20	0.10	<50	10	390
P137813		<50	0.5	<50	3.42	1150	<10	2.20	110	1150	<20	<0.05	<50	20	390
P137814		<50	0.4	<50	2.52	1520	<10	2.09	30	440	<20	0.32	<50	30	100
P137815		<50	0.4	<50	3.04	1570	<10	2.20	10	510	<20	0.30	<50	30	90
P137816		<50	<0.1	<50	0.14	90	<10	0.47	10	50	<20	<0.05	<50	<10	10
P137817		<50	0.1	<50	<0.05	60	<10	0.05	<10	<50	40	2.20	<50	<10	<10



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136735

Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	Cu-OG62
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.05	50	50	10	50	20	0.001
P137804		0.53	<50	<50	260	<50	70	
P137805		<0.05	<50	<50	<10	<50	<20	
P137806		<0.05	<50	<50	<10	<50	<20	
P137807		0.18	<50	<50	150	<50	60	
P137808		0.27	<50	<50	60	<50	460	
P137809		0.38	<50	<50	70	<50	810	
P137810		<0.05	<50	<50	20	<50	7070	
P137811		0.20	<50	<50	160	<50	80	
P137812		0.05	<50	<50	100	<50	110	
P137813		0.65	<50	<50	260	<50	100	
P137814		0.52	<50	<50	240	<50	140	
P137815		0.65	<50	<50	290	<50	290	
P137816		<0.05	<50	<50	10	130	30	
P137817		<0.05	<50	<50	<10	<50	1150	



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CERTIFICATE OF ANALYSIS VO16136735

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	Au-GRA22	Au-ICP22
		Cu-OG62
	ME-OG62	ME-ICP61a
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.	
	CRU-31	CRU-QC
		LOG-22
	OA-HSUL10	PUL-31
		PUL-QC
	WEI-21	WSH-21
		WSH-22
		LOG-24
		SPL-21



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16136743

Project: QK-2016-CS-001

This report is for 195 Drill Core samples submitted to our lab in Val d'Or, QC,
Canada on 17-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
OA-HSUL10	Handling of High Sulphide Samples
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

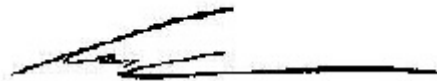
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61a	High Grade Four Acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16136743

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
Q135701		2.55	0.001	<1	7.84	<50	410	<10	<20	3.12	<10	40	60	60	8.84	<50
Q135702		1.45	0.060	<1	7.55	420	470	<10	<20	4.90	<10	40	50	80	8.72	<50
Q135703		0.92	0.862	<1	6.18	14450	600	<10	<20	2.54	<10	50	30	240	6.45	<50
Q135704		2.61	0.028	1	1.50	190	820	<10	<20	1.55	10	<10	20	80	0.77	<50
Q135705		2.19	0.019	<1	1.55	90	530	<10	<20	1.18	10	<10	10	70	0.70	<50
Q135706		1.91	0.008	<1	1.75	<50	430	<10	<20	1.03	<10	<10	20	60	0.75	<50
Q135707		2.53	0.045	<1	2.44	120	760	<10	<20	1.20	10	<10	10	190	1.44	<50
Q135708		1.98	0.018	<1	2.80	50	820	<10	<20	1.52	10	<10	20	110	1.00	<50
Q135709		1.66	0.010	<1	3.94	<50	690	<10	<20	1.57	10	<10	10	80	0.76	<50
Q135710		0.07	1.135	45	4.09	110	510	<10	20	1.51	140	270	30	31400	16.20	<50
Q135711		0.98	0.010	1	2.84	<50	610	<10	<20	1.34	10	<10	20	110	0.94	<50
Q135712		2.32	0.010	<1	6.28	<50	380	<10	<20	6.36	<10	30	40	80	7.96	<50
Q135713		2.62	0.051	<1	6.30	110	250	<10	<20	5.50	<10	30	50	20	6.74	<50
Q135714		2.34	0.173	<1	6.81	2020	300	<10	<20	6.67	<10	40	60	110	7.83	<50
Q135715		2.72	1.070	1	7.06	7280	330	<10	20	6.11	<10	50	50	130	8.73	<50
Q135716		2.40	0.119	<1	6.84	1930	550	<10	<20	4.00	<10	40	50	10	8.43	<50
Q135717		1.35	0.202	<1	6.90	2740	960	<10	20	3.30	<10	40	50	20	8.33	<50
Q135718		1.54	1.680	1	6.40	30500	400	<10	<20	5.27	<10	20	30	410	10.10	<50
Q135719		1.67	0.027	<1	2.33	450	270	<10	<20	0.85	<10	<10	10	80	0.75	<50
Q135720		0.09	0.001	<1	3.75	<50	360	<10	<20	1.53	<10	<10	60	10	2.33	<50
Q135721		2.26	0.049	20	2.40	230	240	<10	20	0.96	10	<10	20	80	0.80	<50
Q135722		2.83	0.075	1	2.03	460	260	<10	<20	0.38	<10	<10	20	70	0.85	<50
Q135723		1.76	0.034	1	4.54	190	600	<10	<20	2.13	<10	10	40	130	3.65	<50
Q135724		1.22	0.027	<1	6.16	110	550	<10	<20	4.88	<10	20	70	60	5.79	<50
Q135725		1.86	0.017	1	2.53	<50	340	<10	<20	0.79	<10	<10	20	80	1.27	<50
Q135726		2.17	0.033	<1	2.48	70	340	<10	<20	0.86	10	<10	20	70	1.05	<50
Q135727		1.45	0.004	<1	2.85	120	280	<10	<20	1.64	<10	<10	10	30	0.69	<50
Q135728		1.68	0.010	<1	6.46	<50	350	<10	<20	9.43	<10	40	50	190	9.05	<50
Q135729		2.51	0.029	<1	7.89	<50	200	<10	<20	12.10	<10	20	60	80	9.31	<50
Q135730		1.11	0.013	<1	8.47	<50	160	<10	<20	12.60	<10	30	60	90	9.34	<50
Q135731		2.40	0.014	<1	4.71	110	<50	<10	<20	6.99	<10	60	730	100	8.96	<50
Q135732		2.19	0.003	<1	3.66	250	<50	<10	<20	8.43	<10	80	1090	190	8.51	<50
Q135733		2.21	0.045	<1	3.56	<50	670	<10	<20	3.13	<10	<10	10	10	3.02	<50
Q135734		2.21	0.001	<1	4.26	<50	620	<10	<20	2.03	<10	<10	10	<10	2.89	<50
Q135735		1.92	0.001	<1	6.31	<50	50	<10	<20	2.82	<10	50	740	100	8.40	<50
Q135736		1.90	0.013	<1	2.85	<50	460	<10	<20	2.81	<10	10	30	30	2.46	<50
Q135737		1.71	0.019	<1	4.46	80	130	<10	<20	8.04	<10	40	820	80	6.09	<50
Q135738		1.76	0.014	<1	4.69	60	70	<10	<20	6.93	<10	50	850	70	6.55	<50
Q135739		2.14	0.001	<1	4.61	<50	670	<10	<20	2.52	<10	10	120	20	3.48	<50
Q135740		0.07	1.125	47	4.30	100	380	<10	20	1.58	140	280	30	32700	16.85	<50



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50	0.05
Q135701		2.8	<50	5.55	910	<10	0.37	20	490	<20	0.28	<50	30	200	<50	0.70
Q135702		2.9	<50	4.52	1210	<10	0.17	20	570	<20	0.36	<50	30	150	<50	0.72
Q135703		2.5	<50	1.08	600	<10	0.31	10	310	<20	2.74	<50	10	80	<50	0.22
Q135704		3.0	<50	<0.05	510	<10	0.53	<10	120	<20	0.21	<50	<10	50	<50	<0.05
Q135705		2.2	<50	<0.05	370	<10	2.07	<10	140	<20	0.23	<50	<10	60	<50	<0.05
Q135706		1.8	<50	<0.05	350	<10	2.38	<10	170	<20	0.19	<50	<10	80	<50	<0.05
Q135707		2.7	<50	<0.05	390	<10	0.80	<10	170	<20	0.66	<50	<10	50	<50	<0.05
Q135708		2.7	<50	<0.05	440	<10	0.96	<10	150	<20	0.34	<50	<10	60	<50	<0.05
Q135709		2.6	<50	<0.05	490	<10	1.39	<10	190	<20	0.23	<50	<10	70	<50	<0.05
Q135710		0.9	<50	1.26	660	10	0.47	20	540	6110	>10.0	90	10	40	<50	0.12
Q135711		2.3	<50	0.07	320	<10	1.65	<10	190	<20	0.30	<50	<10	90	<50	<0.05
Q135712		1.8	<50	3.24	1190	<10	0.39	20	630	<20	0.67	<50	20	200	<50	0.67
Q135713		2.0	<50	3.39	870	<10	0.34	20	480	<20	0.16	<50	20	190	<50	0.59
Q135714		1.9	<50	3.68	1370	<10	0.23	20	530	<20	0.65	<50	20	200	<50	0.65
Q135715		2.2	<50	3.98	1240	<10	0.18	30	530	<20	0.88	<50	30	180	<50	0.68
Q135716		3.2	<50	4.74	1200	<10	0.12	20	520	<20	0.13	<50	30	140	<50	0.68
Q135717		3.8	<50	4.66	1040	<10	0.15	20	550	<20	0.26	<50	30	140	<50	0.70
Q135718		2.0	<50	2.63	970	<10	0.11	10	380	<20	4.12	<50	20	90	<50	0.46
Q135719		1.6	<50	<0.05	110	<10	2.42	<10	160	<20	0.45	<50	<10	50	<50	<0.05
Q135720		1.1	<50	0.40	350	<10	2.64	20	190	<20	<0.05	<50	<10	330	<50	0.14
Q135721		1.5	<50	<0.05	120	<10	2.83	<10	180	<20	0.53	<50	<10	50	<50	<0.05
Q135722		1.7	<50	0.05	90	<10	2.17	<10	200	<20	0.53	<50	<10	30	<50	<0.05
Q135723		2.1	<50	0.84	480	<10	0.95	<10	480	<20	1.27	<50	10	170	<50	0.20
Q135724		0.9	<50	2.40	1080	<10	2.20	20	1020	<20	0.45	<50	10	750	<50	0.49
Q135725		2.0	<50	<0.05	280	<10	2.05	<10	130	<20	0.60	<50	<10	80	<50	<0.05
Q135726		1.8	<50	0.06	220	<10	2.15	<10	130	<20	0.43	<50	<10	70	<50	<0.05
Q135727		1.9	<50	<0.05	170	<10	2.06	<10	110	<20	0.17	<50	<10	140	<50	<0.05
Q135728		1.4	<50	1.82	1610	<10	0.31	20	570	<20	1.45	<50	20	180	<50	0.64
Q135729		0.7	<50	2.32	1940	190	0.56	70	610	<20	0.85	<50	30	270	<50	0.73
Q135730		0.6	<50	2.41	1850	370	0.48	60	590	<20	0.88	<50	30	290	<50	0.76
Q135731		<0.1	<50	7.32	2140	<10	0.12	490	570	<20	0.33	<50	30	160	<50	0.96
Q135732		<0.1	<50	9.47	2010	<10	0.05	870	540	<20	0.64	<50	20	180	<50	0.75
Q135733		1.2	<50	0.40	860	<10	2.66	<10	350	<20	0.12	<50	<10	140	<50	0.19
Q135734		1.1	<50	0.38	760	<10	3.30	<10	390	<20	<0.05	<50	10	290	<50	0.20
Q135735		0.2	<50	6.87	1420	<10	0.40	240	950	<20	<0.05	<50	30	90	<50	0.51
Q135736		0.9	<50	0.84	690	<10	2.98	<10	340	<20	0.11	<50	<10	210	<50	0.19
Q135737		0.8	<50	7.03	1540	<10	0.09	340	770	<20	<0.05	<50	20	270	<50	0.32
Q135738		0.5	<50	7.73	1390	<10	0.07	350	840	<20	0.05	<50	20	220	<50	0.32
Q135739		1.2	<50	1.65	830	<10	3.04	30	470	<20	<0.05	<50	10	170	<50	0.22
Q135740		0.9	<50	1.32	690	10	0.49	20	570	6390	>10.0	80	10	30	<50	0.13



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Tl	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
Q135701		<50	<50	350	<50	140
Q135702		<50	<50	360	<50	230
Q135703		<50	<50	110	<50	150
Q135704		<50	<50	<10	<50	940
Q135705		<50	<50	<10	<50	1320
Q135706		<50	<50	<10	<50	500
Q135707		<50	<50	<10	<50	710
Q135708		<50	<50	<10	<50	1200
Q135709		<50	<50	<10	<50	780
Q135710		<50	<50	30	<50	23800
Q135711		<50	<50	10	<50	810
Q135712		<50	<50	330	<50	190
Q135713		<50	<50	290	<50	160
Q135714		<50	<50	330	<50	220
Q135715		<50	<50	340	<50	230
Q135716		<50	<50	350	<50	290
Q135717		<50	<50	350	<50	270
Q135718		<50	<50	220	<50	360
Q135719		<50	<50	<10	<50	370
Q135720		<50	<50	40	<50	30
Q135721		<50	<50	<10	<50	770
Q135722		<50	<50	<10	<50	540
Q135723		<50	<50	90	<50	330
Q135724		50	<50	220	<50	130
Q135725		<50	<50	<10	<50	330
Q135726		<50	<50	10	<50	490
Q135727		<50	<50	<10	<50	110
Q135728		<50	<50	310	<50	230
Q135729		<50	<50	350	<50	200
Q135730		<50	<50	350	<50	200
Q135731		<50	<50	280	<50	210
Q135732		<50	<50	210	<50	370
Q135733		<50	<50	20	<50	60
Q135734		<50	<50	20	<50	60
Q135735		<50	<50	190	<50	170
Q135736		<50	<50	30	<50	40
Q135737		<50	<50	150	<50	90
Q135738		<50	<50	180	<50	90
Q135739		<50	<50	40	<50	60
Q135740		<50	<50	30	<50	25300



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
Q135741		2.59	0.003	<1	4.69	<50	<50	<10	<20	7.90	<10	80	1040	110	9.64	<50
Q135742		2.49	0.001	<1	4.46	<50	<50	<10	<20	7.22	<10	90	1250	80	9.57	<50
Q135743		1.22	0.037	<1	6.58	<50	330	<10	<20	4.12	<10	30	80	60	7.76	<50
Q135744		2.40	0.027	<1	4.00	<50	390	<10	<20	2.31	<10	<10	30	30	3.49	<50
Q135745		2.37	0.011	<1	5.70	<50	110	<10	<20	6.38	<10	30	40	170	9.21	<50
Q135746		2.51	0.001	<1	6.19	<50	70	<10	<20	6.62	<10	30	20	60	9.02	<50
Q135747		2.32	0.014	<1	6.22	<50	70	<10	<20	9.05	<10	40	280	600	9.36	<50
Q135748		2.30	0.003	<1	5.85	<50	80	<10	<20	7.08	<10	40	40	80	8.59	<50
Q135749		2.04	0.002	<1	6.82	<50	210	<10	<20	7.36	<10	70	1440	110	6.42	<50
Q135750		0.97	0.004	<1	6.82	<50	210	<10	<20	7.34	<10	80	1450	140	6.58	<50
Q135051		2.24	0.002	<1	7.31	<50	120	<10	<20	8.74	<10	80	1560	100	6.47	<50
Q135052		2.39	0.001	<1	5.24	<50	260	<10	<20	8.48	<10	70	1540	50	6.94	<50
Q135053		3.27	0.001	<1	7.09	<50	310	<10	<20	5.35	<10	30	40	30	5.46	<50
Q135054		2.41	0.002	<1	5.03	<50	330	<10	<20	11.00	<10	70	1480	80	6.48	<50
Q135055		2.65	0.001	<1	7.83	<50	200	<10	<20	4.61	<10	90	100	100	7.41	<50
Q135056		2.38	0.003	<1	7.22	<50	200	<10	<20	5.89	<10	70	80	80	8.94	<50
Q135057		2.75	0.005	<1	6.17	<50	50	<10	<20	12.25	<10	60	60	270	10.55	<50
Q135058		2.16	0.003	<1	6.83	<50	170	<10	<20	7.27	<10	70	70	150	9.46	<50
Q135059		2.19	0.011	<1	6.86	<50	180	<10	<20	7.98	<10	70	80	100	7.33	<50
Q135060		0.06	1.005	1	2.99	670	2120	<10	<20	3.65	<10	730	30	17300	27.7	<50
Q135061		2.54	0.002	<1	6.77	<50	190	<10	<20	7.37	<10	60	80	100	9.22	<50
Q135062		2.01	0.004	<1	6.33	<50	160	<10	<20	8.32	<10	40	70	50	8.35	<50
Q135063		2.26	0.002	<1	6.68	<50	90	<10	<20	7.74	<10	60	80	160	8.74	<50
Q135064		2.32	0.004	<1	5.06	100	60	<10	<20	8.45	<10	60	800	80	8.51	<50
Q135065		2.30	0.033	<1	4.35	200	<50	<10	<20	9.92	<10	60	900	200	8.52	<50
Q135066		1.39	0.008	<1	4.76	110	50	<10	<20	9.71	<10	70	1040	210	9.75	<50
Q135067		1.74	0.004	<1	4.36	<50	<50	<10	<20	11.40	<10	50	510	340	9.21	<50
Q135068		1.72	0.016	<1	6.11	50	170	<10	<20	7.51	<10	60	450	210	9.69	<50
Q135069		2.58	0.016	<1	5.97	<50	250	<10	<20	7.54	<10	60	440	320	9.64	<50
Q135070		0.22	0.001	<1	2.62	<50	340	<10	<20	1.37	<10	10	50	10	1.45	<50
Q135071		2.44	0.012	<1	4.98	<50	150	<10	<20	9.34	<10	50	390	150	9.49	<50
Q135072		2.86	0.006	<1	5.90	<50	240	<10	<20	9.47	<10	60	540	150	9.89	<50
Q135073		2.56	0.013	<1	6.05	<50	290	<10	<20	8.77	<10	60	540	320	10.25	<50
Q135074		2.51	0.007	<1	5.55	<50	210	<10	<20	8.60	<10	70	720	210	9.83	<50
Q135075		2.55	0.014	<1	5.56	<50	150	<10	<20	7.99	<10	70	650	250	10.30	<50
Q135076		2.58	0.003	<1	3.79	<50	<50	<10	<20	8.30	<10	80	1250	130	9.29	<50
Q135077		2.28	0.002	<1	4.00	<50	450	<10	<20	3.72	<10	10	20	80	5.52	<50
Q135078		2.54	0.020	<1	3.85	<50	550	<10	<20	3.64	<10	20	20	210	5.78	<50
Q135079		2.75	0.014	<1	5.42	130	60	<10	<20	8.77	<10	60	780	60	9.01	<50
Q135080		1.13	0.008	<1	5.04	110	<50	<10	<20	9.46	<10	60	900	70	9.75	<50



ALS Canada Ltd.

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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
Q135741		0.1	<50	10.15	1700	<10	0.32	670	640	<20	<0.05	<50	30	210	<50
Q135742		0.1	<50	10.30	1630	<10	0.36	820	600	<20	<0.05	<50	30	110	<50
Q135743		0.8	<50	2.78	1570	<10	3.55	50	630	<20	0.05	<50	20	330	<50
Q135744		0.9	<50	0.24	890	<10	3.34	10	250	<20	0.09	<50	10	400	<50
Q135745		0.5	<50	5.72	1730	<10	0.41	80	380	<20	0.09	<50	40	50	<50
Q135746		0.2	<50	3.00	1480	<10	1.03	80	430	<20	0.13	<50	40	110	<50
Q135747		0.2	<50	5.49	2090	<10	1.00	110	400	<20	0.16	<50	30	90	<50
Q135748		0.3	<50	2.99	1500	<10	1.25	40	370	<20	0.10	<50	40	120	<50
Q135749		1.1	<50	4.30	1020	<10	1.61	630	120	<20	0.39	<50	40	100	<50
Q135750		1.1	<50	4.32	1020	<10	1.64	630	130	<20	0.45	<50	40	90	<50
Q135051		0.5	<50	4.35	1140	<10	1.48	710	140	<20	0.35	<50	40	100	<50
Q135052		0.5	<50	9.48	1230	<10	0.31	720	100	<20	<0.05	<50	30	150	<50
Q135053		0.4	<50	2.50	1000	<10	3.08	10	1370	<20	0.24	<50	10	730	<50
Q135054		0.4	<50	7.49	1170	<10	0.45	660	100	<20	0.12	<50	30	280	<50
Q135055		1.7	<50	4.57	1380	<10	1.92	170	910	<20	<0.05	<50	50	150	<50
Q135056		1.2	<50	4.73	1680	<10	1.70	100	700	<20	<0.05	<50	40	160	<50
Q135057		0.5	<50	3.77	2270	<10	0.59	70	640	<20	0.51	<50	40	290	<50
Q135058		1.0	<50	4.52	1810	<10	1.38	90	940	<20	0.29	<50	40	170	<50
Q135059		1.2	<50	4.56	1620	<10	1.54	140	900	<20	<0.05	<50	40	200	<50
Q135060		2.5	270	1.03	4890	320	0.26	60	980	20	3.96	<50	10	270	<50
Q135061		1.1	<50	4.37	1720	<10	1.31	110	930	<20	0.16	<50	40	200	<50
Q135062		0.9	<50	4.30	1650	<10	1.28	50	790	<20	0.07	<50	40	190	<50
Q135063		0.7	<50	4.79	1830	<10	1.36	70	980	<20	0.08	<50	40	190	<50
Q135064		0.2	<50	7.46	1700	<10	1.13	490	610	<20	0.16	<50	30	190	<50
Q135065		0.1	<50	8.04	1780	<10	0.54	590	750	<20	0.09	<50	30	220	<50
Q135066		0.2	<50	7.64	1940	<10	0.45	730	760	<20	0.43	<50	30	270	<50
Q135067		0.1	<50	7.56	2010	<10	0.34	240	540	<20	0.59	<50	30	210	<50
Q135068		0.3	<50	6.25	1840	<10	1.21	200	700	<20	<0.05	<50	40	290	<50
Q135069		0.3	<50	6.20	1870	<10	1.37	180	660	<20	0.30	<50	40	240	<50
Q135070		1.1	<50	0.38	260	<10	2.63	20	180	<20	<0.05	<50	<10	280	<50
Q135071		0.3	<50	6.28	1950	<10	0.93	170	560	<20	0.14	<50	40	290	<50
Q135072		0.4	<50	5.39	1760	<10	1.11	200	670	<20	<0.05	<50	40	440	<50
Q135073		0.4	<50	5.32	1700	<10	1.29	220	710	<20	0.07	<50	50	400	<50
Q135074		0.3	<50	6.47	1630	<10	0.94	380	630	<20	<0.05	<50	40	360	<50
Q135075		0.2	<50	6.96	1790	<10	0.84	290	650	<20	<0.05	<50	40	260	<50
Q135076		0.1	<50	9.61	1570	<10	0.37	790	560	<20	0.27	<50	30	60	<50
Q135077		0.8	<50	0.84	1240	<10	2.62	<10	960	<20	0.12	<50	10	190	<50
Q135078		0.8	<50	1.04	1160	<10	2.82	10	970	<20	0.17	<50	10	210	<50
Q135079		0.2	<50	6.16	1690	<10	1.06	420	640	<20	0.05	<50	30	280	<50
Q135080		0.2	<50	6.78	1810	<10	0.57	470	650	<20	0.05	<50	30	280	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Tl	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
Q135741		<50	<50	270	<50	140
Q135742		<50	<50	270	<50	120
Q135743		<50	<50	250	<50	100
Q135744		<50	<50	20	<50	60
Q135745		<50	<50	290	<50	260
Q135746		<50	<50	280	<50	100
Q135747		<50	<50	280	<50	150
Q135748		<50	<50	290	<50	90
Q135749		<50	<50	240	<50	120
Q135750		<50	<50	240	<50	110
Q135051		<50	<50	240	<50	100
Q135052		<50	<50	180	<50	80
Q135053		<50	<50	160	<50	80
Q135054		<50	<50	180	<50	80
Q135055		<50	<50	480	<50	130
Q135056		<50	<50	510	<50	140
Q135057		<50	<50	400	<50	170
Q135058		<50	<50	610	<50	140
Q135059		<50	<50	490	<50	140
Q135060		<50	50	120	200	40
Q135061		<50	<50	720	<50	120
Q135062		<50	<50	810	<50	120
Q135063		<50	<50	550	<50	140
Q135064		<50	<50	290	<50	110
Q135065		<50	<50	270	<50	110
Q135066		<50	<50	300	<50	120
Q135067		<50	<50	280	<50	110
Q135068		<50	<50	380	<50	130
Q135069		<50	<50	370	<50	200
Q135070		<50	<50	40	<50	20
Q135071		<50	<50	320	<50	140
Q135072		<50	<50	370	<50	140
Q135073		<50	<50	390	<50	140
Q135074		<50	<50	350	<50	120
Q135075		<50	<50	360	<50	120
Q135076		<50	<50	240	<50	110
Q135077		<50	<50	60	<50	70
Q135078		<50	<50	80	<50	70
Q135079		<50	<50	260	<50	90
Q135080		<50	<50	290	<50	100



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
Q135081		2.42	0.005	<1	4.87	150	90	<10	<20	8.47	<10	70	1020	90	9.46	<50
Q135082		2.10	0.001	<1	7.17	<50	190	<10	<20	4.30	<10	40	300	30	8.16	<50
Q135083		1.31	0.016	<1	6.92	<50	390	<10	<20	4.59	<10	30	110	380	7.75	<50
Q135084		2.36	0.004	<1	5.57	50	110	<10	<20	6.96	<10	60	720	130	9.84	<50
Q135085		2.40	0.006	<1	7.61	<50	320	<10	<20	3.32	<10	20	70	40	7.35	<50
Q135086		2.37	0.014	<1	6.28	60	480	<10	<20	6.67	<10	70	370	450	9.63	<50
Q135087		2.39	0.010	<1	6.31	<50	570	<10	<20	7.90	<10	50	140	400	9.50	<50
Q135088		2.60	0.011	<1	6.27	<50	450	<10	<20	8.57	<10	70	370	290	10.50	<50
Q135089		2.50	0.003	<1	4.27	<50	70	<10	<20	10.85	<10	70	820	120	9.19	<50
Q135090		0.06	1.155	47	4.30	120	430	<10	50	1.65	140	280	40	32100	17.00	<50
Q135091		2.30	0.002	<1	4.66	<50	270	<10	<20	8.20	<10	80	920	200	9.93	<50
Q135092		1.70	0.005	<1	6.39	<50	580	<10	<20	8.36	<10	50	290	230	10.55	<50
Q135093		1.12	0.005	<1	4.60	<50	150	<10	<20	11.20	<10	100	370	920	12.45	<50
Q135094		1.99	0.001	<1	6.74	<50	290	<10	<20	9.71	<10	50	100	90	11.15	<50
Q135095		2.38	0.007	<1	5.83	<50	240	<10	<20	8.69	<10	50	290	380	9.90	<50
Q135096		2.38	0.007	<1	5.58	<50	260	<10	<20	9.18	<10	60	440	200	10.10	<50
Q135097		3.81	0.003	<1	4.54	<50	100	<10	<20	9.67	<10	70	770	90	9.57	<50
Q135098		3.75	0.003	<1	4.37	<50	<50	<10	<20	8.43	<10	90	1120	190	9.97	<50
Q135099		3.41	<0.001	<1	4.53	<50	220	<10	<20	9.73	<10	70	860	30	9.17	<50
Q135100		0.18	<0.001	<1	2.93	<50	370	<10	<20	1.51	<10	<10	50	10	1.55	<50
Q135201		3.32	0.004	<1	3.71	<50	<50	<10	<20	8.23	<10	80	1150	200	8.54	<50
Q135202		3.97	0.002	<1	6.48	<50	300	<10	<20	8.44	<10	60	500	70	10.45	<50
Q135203		4.23	0.001	<1	5.42	<50	450	<10	20	9.24	<10	70	710	70	10.15	<50
Q135204		1.82	0.005	<1	4.38	<50	<50	<10	<20	8.39	<10	80	1120	80	9.82	<50
Q135205		1.22	0.003	<1	2.42	<50	<50	<10	<20	14.25	<10	60	670	160	7.28	<50
Q135206		1.94	0.002	<1	4.60	<50	<50	<10	<20	11.45	<10	60	550	120	8.37	<50
Q135207		2.29	0.006	<1	3.49	<50	<50	<10	<20	9.81	<10	90	1180	150	8.70	<50
Q135208		2.39	0.004	<1	4.37	<50	<50	<10	<20	8.50	<10	80	1100	120	9.53	<50
Q135209		3.50	0.008	<1	4.57	80	50	<10	<20	6.20	<10	80	1060	70	9.78	<50
Q135210		0.06	2.43	5	1.77	<50	320	<10	<20	3.94	<10	10	30	70	2.86	<50
Q135211		3.04	0.007	<1	4.81	100	100	<10	<20	6.72	<10	80	940	150	9.98	<50
Q135212		1.40	0.013	<1	6.45	80	950	<10	<20	6.18	<10	60	590	200	9.11	<50
Q135213		2.20	0.004	<1	7.71	70	1250	<10	<20	3.66	<10	30	260	40	7.40	<50
Q135214		3.75	0.007	<1	5.53	140	880	<10	<20	6.14	<10	60	870	60	8.18	<50
Q135215		3.79	0.020	<1	4.86	320	<50	<10	<20	6.61	<10	70	1050	30	9.80	<50
Q135216		2.19	0.012	<1	2.94	410	<50	<10	<20	8.85	<10	90	1160	100	8.24	<50
Q135217		3.12	0.002	<1	4.69	120	50	<10	<20	6.70	<10	70	900	160	8.75	<50
Q135218		1.54	0.077	<1	2.34	60	<50	<10	<20	15.80	<10	40	210	120	7.26	<50
Q135219		3.94	0.023	<1	5.05	190	290	<10	<20	9.86	<10	40	200	120	7.49	<50
Q135220		1.48	0.042	<1	5.22	220	290	<10	<20	9.44	<10	40	190	110	7.37	<50



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
Q135081		0.4	<50	7.01	1840	<10	1.05	490	530	<20	0.09	<50	40	160	<50
Q135082		0.4	<50	4.09	1530	<10	2.76	70	690	<20	<0.05	<50	30	150	<50
Q135083		0.5	<50	3.10	1400	<10	3.27	40	810	<20	0.09	<50	20	250	<50
Q135084		0.1	<50	8.30	1610	<10	1.06	480	770	<20	0.22	<50	30	80	<50
Q135085		0.3	<50	3.34	1010	<10	4.20	60	670	<20	0.14	<50	30	180	<50
Q135086		0.3	<50	5.62	1680	<10	2.19	260	950	<20	0.25	<50	30	270	<50
Q135087		0.4	<50	4.39	1780	<10	2.02	120	930	<20	0.12	<50	30	490	<50
Q135088		0.4	<50	5.04	1970	<10	1.50	250	1000	<20	0.17	<50	40	530	<50
Q135089		<0.1	<50	8.62	1710	<10	0.47	600	690	<20	0.20	<50	30	280	<50
Q135090		0.8	<50	1.31	690	20	0.49	20	600	6260	>10.0	70	10	40	<50
Q135091		0.3	<50	8.67	1700	<10	0.65	680	580	<20	0.29	<50	30	210	<50
Q135092		0.5	<50	4.65	1860	<10	1.92	140	770	<20	0.11	<50	40	440	<50
Q135093		0.2	<50	5.52	2270	<10	0.84	190	560	<20	1.99	<50	30	370	<50
Q135094		0.3	<50	3.94	2230	<10	1.28	100	980	<20	0.16	<50	40	690	<50
Q135095		0.3	<50	5.30	1790	<10	1.71	150	760	<20	0.13	<50	40	320	<50
Q135096		0.3	<50	6.33	1820	<10	1.19	220	650	<20	0.27	<50	40	320	<50
Q135097		0.1	<50	8.20	1640	<10	0.51	530	690	<20	0.12	<50	30	300	<50
Q135098		<0.1	<50	10.70	1470	<10	0.37	820	740	<20	0.19	<50	30	80	<50
Q135099		0.2	<50	9.54	1660	<10	0.62	600	640	<20	0.05	<50	30	170	<50
Q135100		1.1	<50	0.39	270	<10	2.68	20	210	<20	<0.05	<50	<10	300	<50
Q135201		<0.1	<50	11.15	1460	<10	0.37	870	580	<20	0.13	<50	20	50	<50
Q135202		0.4	<50	5.84	1700	<10	1.49	200	750	<20	<0.05	<50	40	480	<50
Q135203		0.4	<50	7.13	1690	<10	0.86	390	670	<20	<0.05	<50	40	450	<50
Q135204		<0.1	<50	11.45	1600	<10	0.41	750	600	<20	0.21	<50	30	80	<50
Q135205		<0.1	<50	10.70	1450	<10	0.06	470	430	<20	0.50	<50	20	170	<50
Q135206		<0.1	<50	9.81	1650	<10	0.15	380	850	<20	0.32	<50	30	160	<50
Q135207		0.1	<50	10.40	1470	<10	0.33	880	490	<20	0.62	<50	20	120	<50
Q135208		0.2	<50	9.79	1660	<10	0.50	790	680	<20	0.25	<50	30	190	<50
Q135209		0.1	<50	11.15	1720	<10	0.38	700	730	<20	0.24	<50	30	60	<50
Q135210		2.1	<50	0.63	700	10	0.88	10	590	20	0.83	<50	<10	240	<50
Q135211		0.2	<50	9.89	1630	<10	0.43	610	760	<20	0.42	<50	30	130	<50
Q135212		0.8	<50	6.05	1450	<10	1.74	460	810	<20	0.81	<50	20	510	<50
Q135213		1.0	<50	4.49	1140	<10	3.25	150	940	<20	0.17	<50	20	310	<50
Q135214		0.7	<50	8.40	1380	<10	1.11	560	720	<20	0.22	<50	20	310	<50
Q135215		0.1	<50	10.85	2060	<10	0.31	740	580	<20	0.14	<50	30	60	<50
Q135216		0.1	<50	10.20	2060	<10	0.40	900	460	<20	0.33	<50	20	80	<50
Q135217		0.1	<50	9.41	1860	<10	0.32	680	700	20	0.49	<50	20	120	<50
Q135218		<0.1	<50	8.22	3160	<10	0.08	180	320	<20	0.62	<50	10	120	<50
Q135219		0.4	<50	6.41	2100	<10	0.79	160	660	20	0.30	<50	20	230	<50
Q135220		0.4	<50	6.13	2010	<10	0.86	140	700	20	0.29	<50	20	230	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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		Tl	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
Q135081		<50	<50	310	<50	90
Q135082		<50	<50	250	<50	70
Q135083		<50	<50	200	<50	60
Q135084		<50	<50	300	<50	100
Q135085		<50	<50	250	<50	60
Q135086		<50	<50	360	<50	120
Q135087		<50	<50	400	<50	140
Q135088		<50	<50	400	<50	130
Q135089		<50	<50	280	<50	110
Q135090		<50	<50	30	<50	24900
Q135091		<50	<50	280	<50	130
Q135092		<50	<50	380	<50	160
Q135093		<50	<50	290	<50	150
Q135094		<50	<50	440	<50	120
Q135095		<50	<50	370	<50	150
Q135096		<50	<50	370	<50	150
Q135097		<50	<50	290	<50	110
Q135098		<50	<50	260	<50	100
Q135099		<50	<50	270	<50	90
Q135100		<50	<50	40	<50	20
Q135201		<50	<50	250	<50	80
Q135202		<50	<50	370	<50	110
Q135203		<50	<50	350	<50	120
Q135204		<50	<50	290	<50	120
Q135205		<50	<50	180	<50	110
Q135206		<50	<50	300	<50	160
Q135207		<50	<50	220	<50	110
Q135208		<50	<50	260	<50	100
Q135209		<50	<50	270	<50	100
Q135210		<50	<50	110	<50	100
Q135211		<50	<50	300	<50	100
Q135212		<50	<50	180	<50	90
Q135213		<50	<50	120	<50	70
Q135214		<50	<50	170	<50	90
Q135215		<50	<50	240	<50	150
Q135216		<50	<50	180	<50	160
Q135217		<50	<50	230	<50	140
Q135218		<50	<50	140	<50	100
Q135219		<50	<50	240	<50	160
Q135220		<50	<50	230	<50	150



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
Q135221		3.98	0.112	<1	3.54	210	<50	<10	<20	8.77	<10	100	1610	140	9.19	<50
Q135222		2.47	0.055	<1	3.45	120	<50	<10	<20	9.91	<10	100	1550	140	9.49	<50
Q135223		2.22	0.201	<1	3.05	240	<50	<10	<20	10.25	<10	70	800	50	8.48	<50
Q135224		2.35	0.010	<1	6.76	80	380	<10	<20	4.42	<10	40	110	40	7.68	<50
Q135225		2.66	0.016	<1	4.30	50	170	<10	<20	10.45	<10	40	200	150	7.94	<50
Q135226		2.95	0.010	<1	5.35	110	160	<10	<20	8.38	<10	70	540	90	9.12	<50
Q135227		2.45	0.008	<1	4.67	130	90	<10	<20	8.49	<10	70	840	160	8.86	<50
Q135228		2.29	0.013	<1	5.36	80	130	<10	<20	7.80	<10	70	670	150	9.06	<50
Q135229		2.48	0.004	<1	5.63	70	210	<10	<20	8.22	<10	60	280	200	9.45	<50
Q135230		0.09	<0.001	<1	3.72	<50	360	<10	<20	1.56	<10	10	60	10	1.84	<50
Q135231		2.53	0.006	<1	5.91	100	140	<10	<20	7.45	<10	70	450	210	9.74	<50
Q135232		2.54	0.006	<1	5.71	50	190	<10	<20	8.73	<10	60	110	160	9.33	<50
Q135233		2.65	0.008	<1	5.41	50	170	<10	<20	7.50	<10	50	120	190	9.28	<50
Q135234		1.52	0.032	<1	3.98	150	<50	<10	<20	7.44	<10	90	1260	130	9.40	<50
Q135235		3.22	0.215	<1	3.38	180	<50	<10	<20	7.61	<10	110	1950	170	9.00	<50
Q135236		3.90	0.042	<1	4.88	700	80	<10	<20	7.52	<10	90	1030	110	9.83	<50
Q135237		3.38	0.269	<1	3.69	210	<50	<10	<20	5.52	<10	90	1710	130	9.45	<50
Q135238		3.44	0.007	<1	5.88	<50	190	<10	<20	6.96	<10	60	460	120	8.18	<50
Q135239		3.89	0.003	<1	5.59	<50	100	<10	<20	7.86	<10	60	550	100	8.48	<50
Q135240		0.06	4.19	5	2.27	<50	280	<10	<20	5.03	<10	10	30	60	2.42	<50
Q135241		3.93	0.002	<1	5.60	<50	260	<10	<20	7.24	<10	60	690	60	8.53	<50
Q135242		1.60	0.070	<1	2.71	<50	80	<10	<20	2.26	<10	40	100	220	25.1	<50
Q135243		2.94	0.259	1	0.60	<50	<50	<10	<20	1.79	<10	40	30	140	29.6	<50
Q135244		1.94	0.434	<1	0.56	<50	<50	<10	<20	2.51	<10	20	30	80	22.0	<50
Q135245		2.32	0.001	<1	7.56	70	160	<10	<20	4.16	<10	80	80	50	9.29	<50
Q135246		1.27	0.055	<1	4.20	60	<50	<10	<20	6.67	<10	70	70	290	11.75	<50
Q135247		2.27	0.325	<1	4.77	<50	60	<10	<20	5.10	<10	60	80	190	14.05	<50
Q135248		1.39	0.003	<1	7.03	<50	120	<10	<20	7.11	<10	60	230	210	9.29	<50
Q135249		1.46	0.004	<1	4.79	<50	450	<10	<20	3.66	<10	20	20	50	6.27	<50
Q135250		0.67	0.005	<1	4.33	<50	450	<10	<20	3.53	<10	10	10	130	6.06	<50
Q132851		2.70	0.011	<1	5.59	<50	100	<10	<20	6.80	<10	20	30	160	16.25	<50
Q132852		1.94	0.006	1	3.71	<50	170	<10	<20	1.96	<10	10	50	60	4.91	<50
Q132853		1.41	0.018	<1	3.41	<50	60	<10	<20	6.64	<10	30	40	240	9.97	<50
Q132854		2.25	0.014	<1	0.67	<50	<50	<10	<20	4.14	<10	30	40	180	9.74	<50
Q132855		1.97	0.009	<1	0.81	<50	<50	<10	<20	0.95	<10	20	40	150	6.21	<50
Q132856		2.23	0.023	<1	1.78	<50	120	<10	<20	1.95	<10	30	50	150	9.16	<50
Q132857		1.93	0.008	1	1.73	<50	50	<10	<20	2.77	<10	10	50	110	6.74	<50
Q132858		2.40	0.005	<1	4.59	<50	440	<10	<20	2.25	<10	20	140	70	7.32	<50
Q132859		2.96	0.008	<1	1.82	<50	190	<10	<20	1.84	<10	30	160	150	5.95	<50
Q132860		0.06	1.100	45	3.83	110	440	<10	30	1.51	130	270	30	30700	15.55	<50



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
Q135221		0.1	<50	9.51	2330	<10	0.23	860	520	<20	0.61	<50	30	70	<50
Q135222		<0.1	<50	9.48	2150	<10	0.11	810	460	<20	0.71	<50	30	40	<50
Q135223		0.1	<50	8.42	2640	<10	0.28	450	330	<20	0.13	<50	20	100	<50
Q135224		0.7	<50	4.95	1660	<10	1.53	100	780	<20	0.12	<50	20	170	<50
Q135225		0.3	<50	7.66	1960	<10	0.55	170	550	<20	0.47	<50	20	120	<50
Q135226		0.4	<50	6.92	1970	<10	0.81	340	720	<20	0.21	<50	30	200	<50
Q135227		0.2	<50	7.82	2120	<10	0.63	430	580	<20	0.42	<50	30	110	<50
Q135228		0.3	<50	7.41	2060	<10	0.81	380	680	<20	0.42	<50	30	190	<50
Q135229		0.4	<50	5.73	1920	<10	1.26	190	780	<20	0.41	<50	30	220	<50
Q135230		1.1	<50	0.40	310	<10	2.64	20	210	<20	<0.05	<50	<10	310	<50
Q135231		0.3	<50	6.03	2000	<10	1.10	250	830	<20	0.47	<50	40	300	<50
Q135232		0.4	<50	5.78	1870	<10	1.22	100	800	20	0.46	<50	30	280	<50
Q135233		0.2	<50	6.33	1870	<10	1.18	110	840	20	0.53	<50	30	310	<50
Q135234		<0.1	<50	9.50	1650	<10	0.19	590	620	<20	0.39	<50	30	170	<50
Q135235		<0.1	<50	11.05	1640	<10	0.13	930	500	<20	0.51	<50	20	90	<50
Q135236		0.1	<50	8.22	2600	<10	0.47	760	620	<20	0.10	<50	30	310	<50
Q135237		<0.1	<50	12.80	1860	<10	0.14	890	530	20	0.53	<50	30	60	<50
Q135238		0.5	<50	6.04	1540	<10	1.90	240	550	<20	0.12	<50	40	360	<50
Q135239		0.3	<50	7.22	1660	<10	1.12	380	550	<20	0.09	<50	40	350	<50
Q135240		1.8	<50	0.67	630	<10	0.65	10	490	<20	0.78	<50	10	240	<50
Q135241		0.5	<50	6.58	2140	<10	1.36	450	820	20	0.07	<50	30	310	<50
Q135242		0.4	<50	3.83	7230	<10	0.49	80	650	30	5.57	<50	10	40	<50
Q135243		0.3	<50	3.82	10450	<10	0.07	60	870	20	7.87	<50	<10	20	<50
Q135244		0.2	<50	3.51	8160	<10	0.08	30	450	20	3.83	<50	<10	10	<50
Q135245		0.5	<50	8.50	2470	<10	0.96	300	210	20	<0.05	<50	20	50	<50
Q135246		0.1	<50	4.63	6290	<10	0.21	190	810	<20	1.05	<50	20	30	<50
Q135247		0.3	<50	4.26	5140	<10	0.33	170	750	<20	2.58	<50	30	50	<50
Q135248		0.8	<50	4.52	1680	<10	1.21	90	760	20	0.38	<50	40	240	<50
Q135249		1.6	<50	0.91	1070	<10	1.47	10	730	<20	0.97	<50	10	170	<50
Q135250		1.6	<50	0.84	1050	<10	1.54	20	710	20	0.89	<50	10	170	<50
Q132851		1.1	60	4.25	2240	<10	0.22	60	1190	20	3.07	<50	10	130	<50
Q132852		1.3	<50	1.42	540	<10	0.22	30	460	<20	0.98	<50	10	80	<50
Q132853		0.6	<50	3.14	1150	<10	0.18	80	930	20	3.22	<50	10	80	<50
Q132854		0.1	<50	2.17	890	<10	<0.05	80	1240	<20	3.82	<50	<10	20	<50
Q132855		0.2	<50	0.52	220	<10	<0.05	50	1050	<20	2.83	<50	<10	10	<50
Q132856		0.8	<50	1.18	400	<10	<0.05	70	880	<20	4.04	<50	10	30	<50
Q132857		0.3	<50	1.64	730	10	0.05	20	540	<20	1.78	<50	10	50	<50
Q132858		1.6	<50	1.55	640	<10	0.91	30	990	<20	0.79	<50	30	130	<50
Q132859		0.6	<50	1.42	440	30	0.34	80	2200	<20	1.82	<50	10	90	<50
Q132860		0.9	<50	1.17	660	20	0.46	20	560	6100	>10.0	60	10	30	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Tl	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
Q135221		<50	<50	240	<50	240
Q135222		<50	<50	250	<50	200
Q135223		<50	<50	190	<50	190
Q135224		<50	<50	240	<50	110
Q135225		<50	<50	240	<50	100
Q135226		<50	<50	350	<50	160
Q135227		<50	<50	330	<50	190
Q135228		<50	<50	350	<50	180
Q135229		<50	<50	370	<50	220
Q135230		<50	<50	40	<50	20
Q135231		<50	<50	390	<50	330
Q135232		<50	<50	380	<50	230
Q135233		<50	<50	410	<50	200
Q135234		<50	<50	290	<50	160
Q135235		<50	<50	230	<50	160
Q135236		<50	<50	280	<50	160
Q135237		<50	<50	250	<50	140
Q135238		<50	<50	270	<50	100
Q135239		<50	<50	290	<50	90
Q135240		<50	<50	90	<50	50
Q135241		<50	<50	240	<50	100
Q135242		<50	<50	120	<50	130
Q135243		<50	<50	70	<50	150
Q135244		<50	<50	50	<50	100
Q135245		<50	<50	160	<50	100
Q135246		<50	<50	180	<50	230
Q135247		<50	<50	250	<50	80
Q135248		<50	<50	380	<50	120
Q135249		<50	<50	80	<50	100
Q135250		<50	<50	80	<50	90
Q132851		<50	<50	160	<50	290
Q132852		<50	<50	130	<50	90
Q132853		<50	<50	150	<50	180
Q132854		<50	<50	80	<50	110
Q132855		<50	<50	100	<50	40
Q132856		<50	<50	130	<50	60
Q132857		<50	<50	90	<50	90
Q132858		<50	<50	290	<50	80
Q132859		<50	<50	170	<50	70
Q132860		<50	<50	30	<50	23600



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-ICP61a Ag ppm	ME-ICP61a Al %	ME-ICP61a As ppm	ME-ICP61a Ba ppm	ME-ICP61a Be ppm	ME-ICP61a Bi ppm	ME-ICP61a Ca %	ME-ICP61a Cd ppm	ME-ICP61a Co ppm	ME-ICP61a Cr ppm	ME-ICP61a Cu ppm	ME-ICP61a Fe %	ME-ICP61a Ga ppm
		0.02	0.001	1	0.05	50	50	10	20	0.05	10	10	10	10	0.05	50
Q132861		2.03	0.005	1	4.33	<50	260	<10	<20	2.33	<10	30	250	160	6.73	<50
Q132862		2.25	0.002	<1	5.65	<50	420	<10	<20	3.72	<10	30	180	50	7.32	<50
Q132863		1.98	0.007	<1	4.44	<50	410	<10	<20	3.79	<10	20	10	10	5.62	<50
Q132864		1.99	0.005	<1	3.57	<50	290	<10	<20	3.12	<10	20	20	40	4.85	<50
Q132865		2.39	0.016	<1	2.64	150	60	<10	<20	3.27	<10	30	70	90	5.01	<50
Q132866		1.87	0.039	1	5.00	600	230	<10	<20	2.22	<10	30	270	50	7.02	<50
Q132867		0.75	0.865	3	5.59	6450	60	<10	<20	2.24	20	30	350	170	8.07	<50
Q132868		1.62	0.304	1	5.23	3430	530	<10	<20	1.82	<10	20	120	40	7.70	<50
Q132869		2.90	0.004	<1	6.12	90	420	<10	<20	4.02	<10	30	280	20	6.24	<50
Q132870		0.17	0.001	<1	2.64	<50	350	<10	<20	1.36	<10	10	50	10	1.42	<50
Q132871		2.28	0.060	<1	4.91	410	400	<10	<20	1.65	<10	30	200	260	10.75	<50
Q132872		1.92	0.003	<1	6.19	<50	540	<10	<20	7.28	<10	30	330	40	6.88	<50
Q132873		2.43	0.002	<1	5.91	<50	530	<10	<20	6.97	<10	40	440	50	7.42	<50
Q132874		0.83	0.003	<1	5.22	<50	630	<10	<20	3.81	<10	20	170	10	6.23	<50
Q132875		1.63	0.329	1	4.47	80	350	<10	<20	2.40	<10	20	190	180	12.25	<50
Q132876		1.22	2.60	1	1.86	490	160	<10	<20	1.64	10	10	50	220	12.70	<50
Q132877		1.32	0.108	1	2.37	<50	150	<10	<20	1.39	<10	20	60	80	5.51	<50
Q132878		2.28	0.035	1	2.64	<50	120	<10	<20	1.30	<10	20	70	130	7.25	<50
Q132879		2.50	0.002	1	1.71	<50	80	<10	<20	3.85	<10	10	30	80	5.56	<50
Q132880		0.79	0.003	<1	1.72	<50	100	<10	<20	4.17	<10	20	40	110	6.30	<50
Q132881		2.37	0.004	<1	0.59	<50	<50	<10	<20	5.43	<10	80	20	580	8.77	<50
Q132882		1.87	0.003	<1	0.80	<50	<50	<10	<20	4.42	<10	30	40	390	6.52	<50
Q132883		3.04	0.001	<1	6.50	<50	290	<10	<20	3.89	<10	50	160	<10	8.44	<50
Q132884		2.22	0.002	<1	8.36	<50	160	<10	<20	3.95	<10	90	200	<10	14.30	<50
Q132885		2.63	0.001	<1	8.45	<50	170	<10	<20	3.38	<10	110	210	10	18.00	<50
Q132886		2.37	0.011	<1	4.44	<50	460	<10	<20	2.65	<10	20	10	50	4.85	<50
Q132887		2.83	0.022	<1	0.48	<50	<50	<10	<20	0.93	<10	20	40	170	2.67	<50
Q132888		1.67	0.004	<1	4.32	<50	120	<10	<20	2.25	<10	30	120	110	9.38	<50
Q132889		2.43	0.005	<1	4.47	<50	240	<10	<20	1.88	<10	20	120	110	11.15	<50
Q132890		0.06	1.045	2	3.17	700	1550	<10	<20	3.90	<10	750	30	17500	29.3	<50
Q132891		3.44	0.006	<1	5.31	<50	460	<10	<20	6.00	<10	40	250	140	10.15	<50
Q132892		3.51	0.040	<1	3.00	<50	180	<10	<20	2.62	<10	10	110	240	12.35	<50
Q132893		2.88	0.098	<1	4.70	<50	100	<10	<20	3.98	<10	40	90	50	10.90	<50
Q132894		3.50	0.002	<1	7.14	<50	220	<10	<20	5.88	<10	50	140	<10	9.23	<50
Q132895		3.04	0.010	1	3.18	<50	90	<10	<20	2.70	<10	30	100	90	6.55	<50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	50	0.05	10	10	0.05	10	50	20	0.05	50	10	10	50
Q132861		0.9	<50	3.28	770	<10	0.44	130	3170	<20	1.59	<50	20	80	<50
Q132862		1.7	<50	2.28	960	<10	1.39	70	3850	<20	0.13	<50	30	200	<50
Q132863		1.6	<50	0.92	980	<10	2.07	<10	900	20	<0.05	<50	<10	230	<50
Q132864		1.8	<50	1.06	840	<10	1.69	10	720	<20	0.18	<50	<10	210	<50
Q132865		0.4	<50	1.74	960	10	0.20	50	3530	40	0.36	<50	10	80	<50
Q132866		0.9	<50	2.88	1090	<10	0.33	120	2080	270	0.22	<50	30	70	<50
Q132867		0.4	<50	4.25	1400	10	0.21	130	860	660	0.38	<50	30	60	<50
Q132868		1.0	<50	2.80	1310	<10	0.10	30	2540	<20	0.24	<50	30	20	<50
Q132869		1.6	<50	2.95	1130	<10	1.30	100	1800	90	0.10	<50	20	210	<50
Q132870		1.0	<50	0.38	260	<10	2.65	10	200	<20	<0.05	<50	<10	270	<50
Q132871		1.3	<50	1.70	660	10	0.36	80	2220	30	3.62	<50	20	50	<50
Q132872		1.5	50	4.49	1210	<10	1.56	240	3360	290	0.32	<50	30	380	<50
Q132873		1.1	50	5.26	1310	<10	1.57	290	3780	100	0.34	<50	30	310	<50
Q132874		1.9	<50	2.05	640	<10	1.64	70	1040	<20	<0.05	<50	20	80	<50
Q132875		1.2	<50	2.56	1080	<10	0.09	110	4060	<20	0.65	<50	20	70	<50
Q132876		0.5	<50	1.46	1020	<10	<0.05	10	5970	460	3.33	<50	10	50	<50
Q132877		0.5	<50	1.16	510	<10	<0.05	20	1990	360	0.88	<50	10	30	<50
Q132878		0.5	<50	1.46	750	<10	0.18	20	1370	20	1.65	<50	10	20	<50
Q132879		0.4	<50	1.83	1260	<10	0.25	10	1060	<20	0.63	<50	10	50	<50
Q132880		0.4	<50	2.04	1380	<10	0.24	10	1790	<20	0.79	<50	10	40	<50
Q132881		0.1	<50	2.21	1480	<10	0.06	30	1250	<20	2.52	<50	<10	30	<50
Q132882		0.1	<50	2.33	1200	<10	0.06	20	1680	20	1.55	<50	<10	50	<50
Q132883		1.0	<50	1.94	970	<10	2.50	90	1260	<20	<0.05	<50	30	230	<50
Q132884		0.6	<50	2.41	920	<10	1.74	100	1500	20	<0.05	<50	50	320	<50
Q132885		0.5	<50	3.84	1390	<10	0.95	130	2040	20	0.12	<50	50	170	<50
Q132886		1.3	<50	0.84	950	<10	2.20	<10	740	20	0.12	<50	10	250	<50
Q132887		0.1	<50	0.54	270	<10	0.09	30	540	<20	0.83	<50	<10	10	<50
Q132888		0.4	<50	2.26	770	<10	0.71	60	1900	<20	0.82	<50	20	120	<50
Q132889		0.8	<50	2.02	730	<10	0.68	70	1250	<20	0.93	<50	20	130	<50
Q132890		2.5	260	1.05	5100	330	0.24	70	1010	30	4.00	<50	10	250	<50
Q132891		1.0	50	4.19	1270	<10	1.58	190	3830	<20	1.16	<50	20	390	<50
Q132892		0.5	<50	1.72	850	<10	0.40	70	4890	<20	2.04	<50	10	130	<50
Q132893		0.3	<50	2.11	1190	<10	0.74	40	2120	<20	0.50	<50	20	230	<50
Q132894		0.6	<50	2.50	1000	<10	2.11	80	1490	<20	0.05	<50	40	380	<50
Q132895		0.2	<50	1.65	670	<10	1.06	50	540	<20	0.20	<50	20	140	<50



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a	ME-ICP61a
		Tl	U	V	W	Zn
		ppm 50	ppm 50	ppm 10	ppm 50	ppm 20
Q132861		<50	<50	190	<50	150
Q132862		<50	<50	360	<50	110
Q132863		<50	<50	70	<50	110
Q132864		<50	<50	80	<50	80
Q132865		<50	<50	200	<50	210
Q132866		<50	<50	250	<50	480
Q132867		<50	<50	230	<50	1810
Q132868		<50	<50	310	<50	390
Q132869		<50	<50	260	<50	190
Q132870		<50	<50	40	<50	20
Q132871		<50	<50	330	<50	180
Q132872		<50	<50	270	<50	140
Q132873		<50	<50	300	<50	190
Q132874		<50	<50	370	<50	90
Q132875		<50	<50	190	<50	130
Q132876		<50	<50	80	<50	320
Q132877		<50	<50	120	<50	60
Q132878		<50	<50	140	<50	60
Q132879		<50	<50	60	<50	60
Q132880		<50	<50	70	<50	60
Q132881		<50	<50	50	<50	60
Q132882		<50	<50	60	<50	50
Q132883		<50	<50	490	<50	70
Q132884		<50	<50	640	<50	40
Q132885		<50	<50	520	<50	110
Q132886		<50	<50	50	<50	90
Q132887		<50	<50	30	<50	20
Q132888		<50	<50	210	<50	70
Q132889		<50	<50	200	<50	70
Q132890		<50	50	120	180	40
Q132891		<50	<50	220	<50	80
Q132892		<50	<50	150	<50	50
Q132893		<50	<50	250	<50	90
Q132894		<50	<50	590	<50	40
Q132895		<50	<50	200	<50	30



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16136743

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP22	ME-ICP61a	
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.		
	CRU-31	CRU-QC	LOG-22
	OA-HSUL10	PUL-31	PUL-QC
	WEI-21	WSH-21	WSH-22
			LOG-24
			SPL-21



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16141611

Project: QK-2016-LITHO-001

This report is for 12 Rock samples submitted to our lab in Val d'Or, QC, Canada on 25-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
WSH-21	"Wash" crushers
WSH-22	"Wash" pulverizers

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES

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ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: *Nacera Amara*
Nacera Amara, Laboratory Manager, Val d'Or



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP22	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	
		Recvd Wt.	Au	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO
		kg	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
LITHO-STANDARD-01 P137726 P137727 P137729 P137827		0.20	<0.001	77.0	12.10	2.38	2.65	0.94	3.79	1.53	0.01	0.32	0.04	0.06	0.05	0.05
		2.33	<0.001	53.0	14.95	10.70	8.23	5.09	2.84	0.96	0.02	1.07	0.19	0.24	0.07	0.06
		1.05	<0.001	53.3	14.55	11.55	6.89	4.86	3.38	0.18	<0.01	0.93	0.17	0.10	0.03	0.01
		2.32	0.001	64.1	15.20	5.78	4.54	1.40	2.76	2.26	<0.01	0.46	0.14	0.14	0.04	0.06
		1.62	0.002	75.2	13.05	1.20	0.92	0.11	4.52	3.08	<0.01	0.03	0.01	0.02	0.01	0.09
P137828 P137829 P137830 P137831 P137832		2.09	0.001	68.0	14.90	4.20	2.48	0.87	4.17	2.57	<0.01	0.41	0.07	0.12	0.03	0.09
		1.51	<0.001	69.9	13.55	3.23	2.53	0.77	3.92	2.51	<0.01	0.33	0.06	0.09	0.03	0.07
		0.78	0.004	70.4	14.25	3.40	2.21	0.65	4.05	2.45	<0.01	0.30	0.05	0.09	0.03	0.08
		1.48	<0.001	58.2	16.30	6.56	5.50	3.38	2.94	2.03	0.01	0.82	0.10	0.22	0.05	0.05
		1.26	0.057	69.9	14.50	3.84	1.66	0.75	4.06	2.80	<0.01	0.36	0.06	0.11	0.03	0.08
P137833 P137834		1.02	<0.001	68.9	13.70	4.47	3.05	0.68	3.93	1.29	<0.01	0.35	0.10	0.09	0.04	0.06
		1.59	<0.001	70.5	13.60	4.04	2.89	0.71	3.78	1.84	<0.01	0.30	0.09	0.08	0.03	0.06



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	OA-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf
		%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2
LITHO-STANDARD-01		0.74	101.66	0.04	0.01	407	17.9	60	0.60	1.28	0.68	0.59	13.9	1.57	<5	2.7
P137726		2.10	99.52	0.15	0.11	518	34.4	160	0.14	4.03	2.28	1.51	18.6	4.64	<5	2.9
P137727		2.10	98.05	0.14	0.24	56.9	11.2	40	<0.01	5.30	3.66	0.93	17.5	3.97	<5	2.0
P137729		1.99	98.87	0.21	0.09	536	59.3	20	1.87	2.97	1.66	1.22	18.5	3.56	<5	4.4
P137827		1.24	99.48	0.20	0.18	796	37.3	20	0.23	2.78	1.42	0.62	16.4	2.73	<5	2.8
P137828		1.12	99.03	0.05	0.02	781	73.0	20	1.78	2.80	1.68	1.21	19.0	3.29	<5	6.0
P137829		2.26	99.25	0.32	0.05	677	69.1	20	0.54	3.81	2.27	0.93	17.4	4.25	<5	5.6
P137830		1.94	99.90	0.20	0.40	757	65.0	20	0.50	3.15	1.77	0.89	18.2	3.55	<5	5.2
P137831		3.45	99.61	0.31	0.02	495	52.8	40	0.60	3.39	1.86	0.98	19.5	3.83	<5	3.9
P137832		1.34	99.49	0.06	0.02	693	81.7	10	0.86	3.64	2.33	0.98	19.1	4.10	<5	5.8
P137833		2.50	99.16	0.33	0.02	539	33.4	10	0.26	5.03	2.94	1.17	17.6	4.99	<5	5.0
P137834		1.80	99.72	0.29	0.02	557	38.0	30	2.04	4.15	2.62	1.06	17.2	4.03	<5	4.2



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01
LITHO-STANDARD-01		0.26	7.9	0.11	3.0	10.1	2.40	46.0	2.09	1	376	0.2	0.22	0.98	0.10
P137726		0.81	15.1	0.31	6.6	19.8	4.49	17.0	5.18	1	535	0.4	0.73	1.86	0.37
P137727		1.20	4.7	0.53	2.3	7.4	1.48	2.0	2.35	1	265	0.1	0.73	0.59	0.55
P137729		0.65	29.7	0.29	10.8	23.7	6.63	81.6	4.59	2	358	0.9	0.56	9.06	0.28
P137827		0.57	19.4	0.23	11.2	14.5	4.16	66.9	3.23	<1	105.5	1.3	0.45	8.97	0.24
P137828		0.58	37.8	0.25	11.9	26.3	7.82	84.6	4.67	3	275	1.0	0.50	10.05	0.25
P137829		0.73	34.6	0.30	10.2	26.6	7.74	64.6	4.80	2	239	0.9	0.67	12.00	0.33
P137830		0.63	32.6	0.26	9.4	24.9	7.05	64.4	4.73	4	257	0.8	0.50	11.45	0.29
P137831		0.66	24.7	0.23	7.0	23.7	6.23	83.8	4.36	2	446	0.6	0.60	6.34	0.27
P137832		0.71	42.7	0.29	11.9	30.8	8.91	79.4	5.60	3	228	1.0	0.64	11.10	0.30
P137833		1.05	14.3	0.45	8.1	18.8	4.23	30.9	4.94	2	323	0.5	0.87	2.49	0.46
P137834		0.89	17.1	0.41	7.3	17.6	4.54	49.7	4.27	1	260	0.5	0.68	3.19	0.44



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5
LITHO-STANDARD-01		44	<1	6.8	0.64	110	0.7	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5
P137726		239	1	21.8	2.13	110	1.3	0.03	0.017	0.018	0.001	0.20	<0.2	0.02	0.02	<0.5
P137727		329	1	28.9	3.36	71	0.7	0.02	<0.005	0.023	0.001	0.23	<0.2	0.03	<0.02	<0.5
P137729		50	1	17.5	1.82	169	1.0	0.05	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.23	<0.5
P137827		<5	1	16.6	1.61	75	2.5	0.11	<0.005	<0.005	<0.001	0.06	<0.2	0.02	0.02	<0.5
P137828		29	1	15.1	1.59	249	0.8	0.06	<0.005	0.012	<0.001	0.12	<0.2	0.01	0.22	<0.5
P137829		28	2	20.4	2.07	217	1.6	0.15	0.010	0.014	<0.001	0.48	<0.2	0.02	0.04	<0.5
P137830		23	2	18.0	1.87	208	1.4	1.55	0.036	0.013	<0.001	0.18	0.2	0.11	0.03	<0.5
P137831		159	2	17.9	1.60	154	1.3	0.06	0.010	0.008	<0.001	0.28	<0.2	<0.01	0.04	<0.5
P137832		27	3	19.8	2.25	233	1.1	0.36	0.012	0.015	<0.001	0.20	<0.2	0.03	0.09	<0.5
P137833		22	1	28.3	2.89	201	0.6	0.02	0.010	0.012	<0.001	0.24	<0.2	<0.01	0.02	<0.5
P137834		18	1	24.7	2.39	158	1.0	0.02	0.008	0.009	<0.001	0.16	<0.2	<0.01	0.18	<0.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	1	1	10	1	1	2	1	2
LITHO-STANDARD-01		<0.5	4	6	<10	<1	18	5	5	17
P137726		<0.5	29	56	10	<1	28	4	28	138
P137727		<0.5	28	93	10	<1	23	4	37	107
P137729		<0.5	7	4	10	<1	2	7	8	71
P137827		<0.5	1	58	<10	<1	3	16	1	6
P137828		<0.5	5	8	10	<1	6	12	5	56
P137829		<0.5	4	21	<10	1	4	16	6	59
P137830		0.7	4	65	<10	20	2	22	5	89
P137831		<0.5	20	15	10	1	36	7	12	64
P137832		<0.5	4	10	10	1	4	12	5	52
P137833		<0.5	4	1	<10	1	<1	6	8	61
P137834		<0.5	4	9	10	<1	2	4	7	50



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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Account: LZIBAC

Project: QK-2016-LITHO-001

CERTIFICATE OF ANALYSIS VO16141611

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.			
	C-IR07	CRU-31	CRU-QC	LOG-22
	LOG-24	PUL-31	S-IR08	SPL-21
	WEI-21	WSH-21	WSH-22	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP22	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	TOT-ICP06	



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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Account: LZIBAC

CERTIFICATE VO16143596

Project: QK-2016-TS-005

This report is for 185 Soil samples submitted to our lab in Val d'Or, QC, Canada on 29-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
DRY-21	High Temperature Drying
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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Account: LZIBAC

Project: QK-2016-TS-005

CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S726990		0.22	0.001	0.04	6.18	0.9	410	1.08	0.04	1.74	0.04	18.25	5.8	45	0.81	8.0
S726991		0.94	0.008	0.03	7.45	6.8	480	1.35	0.09	2.43	0.09	62.8	23.2	121	1.21	65.0
S726992		0.95	0.005	0.05	7.32	6.0	450	1.25	0.08	3.03	0.15	69.6	23.4	114	0.88	55.1
S726993		1.04	0.015	0.08	7.27	44.8	550	1.51	0.18	2.08	0.14	81.5	33.7	176	2.02	115.0
S726994		0.98	0.001	0.05	6.74	4.0	540	1.52	0.06	2.06	0.13	73.4	16.1	109	1.49	26.8
S726995		0.93	0.001	0.02	7.08	6.9	550	1.59	0.08	2.08	0.11	68.2	18.1	152	1.47	28.0
S726996		1.12	0.005	0.07	6.99	11.1	540	1.51	0.13	2.13	0.22	75.5	24.9	142	1.74	58.9
S726997		0.85	0.012	0.03	7.29	10.9	550	1.76	0.10	2.32	0.12	93.7	24.5	111	1.74	70.1
S726998		0.90	0.018	0.09	7.71	16.7	590	1.67	0.14	2.37	0.25	82.1	32.8	126	2.25	118.5
S726999		1.11	0.002	0.08	7.36	5.4	570	1.76	0.10	1.90	0.22	82.8	21.7	113	2.27	45.8
S727000		0.82	0.011	0.05	6.96	52.1	460	1.52	0.17	2.50	0.14	79.2	28.8	128	1.34	110.5
S727001		0.85	0.004	0.04	7.15	12.7	500	1.62	0.12	2.53	0.24	90.2	25.4	108	1.43	107.0
S727002		0.79	0.001	0.02	6.81	4.3	500	1.76	0.09	2.44	0.12	92.0	16.9	83	1.58	33.2
S727003		0.72	0.011	0.06	6.50	5.4	480	1.73	0.09	2.53	0.15	101.0	17.4	83	1.11	38.7
S727004		0.87	0.003	0.07	7.43	9.6	480	1.57	0.16	2.54	0.14	83.6	25.7	112	1.52	106.0
S727005		0.99	0.004	0.06	7.27	18.3	500	1.82	0.18	2.48	0.12	94.1	22.8	99	1.64	77.4
S727006		0.97	0.003	0.09	7.54	8.9	440	1.38	0.15	2.82	0.24	66.7	33.0	154	1.58	104.0
S727007		0.74	0.003	0.10	7.74	16.6	560	1.71	0.13	2.24	0.13	86.8	24.6	121	2.27	111.5
S727008		0.90	0.005	0.03	7.42	5.5	500	1.59	0.10	2.46	0.10	77.2	21.7	110	1.39	52.3
S727009		0.97	0.003	0.04	7.52	4.0	550	1.53	0.08	2.45	0.14	72.8	20.0	112	1.51	34.4
S727010		1.24	0.013	0.03	6.81	45.2	480	1.47	0.11	2.13	0.08	72.9	20.0	119	1.44	71.8
S727011		0.96	0.019	0.04	7.00	61.0	490	1.48	0.15	2.21	0.07	69.6	20.4	126	1.42	79.0
S727012		1.42	0.002	0.07	7.38	4.8	570	1.69	0.09	2.13	0.23	88.4	20.2	112	1.89	40.1
S727013		1.46	0.008	0.07	7.13	27.5	460	1.40	0.13	2.45	0.11	66.7	25.7	138	1.39	66.1
S727014		1.49	0.004	0.07	7.27	41.8	530	1.56	0.11	2.21	0.13	80.4	33.4	121	1.69	60.8
S727015		1.28	0.019	0.06	7.37	145.5	500	1.46	0.17	2.34	0.12	70.3	38.5	112	1.46	103.0
S727016		1.57	0.056	0.10	7.74	266	500	1.46	0.29	2.29	0.13	74.4	63.9	110	2.04	189.5
S727017		1.50	0.032	0.13	7.43	204	460	1.42	0.24	2.47	0.11	71.5	45.4	104	1.69	207
S727018		1.70	0.013	0.04	7.12	104.5	500	1.48	0.20	2.05	0.08	84.3	21.7	102	1.79	73.0
S727019		1.06	0.005	0.07	7.12	65.5	520	1.61	0.13	2.00	0.11	76.2	22.0	130	1.90	81.4
S727020		1.62	0.030	0.10	7.74	54.8	510	1.55	0.20	2.32	0.12	74.7	30.6	122	1.76	83.6
S727021		1.10	0.008	0.08	7.55	22.6	550	1.73	0.12	2.11	0.18	80.7	24.9	131	2.05	68.1
S727022		1.25	0.010	0.09	7.73	62.8	350	1.02	0.27	3.25	0.16	51.9	37.6	176	1.08	106.0
S727023		1.19	0.012	0.09	7.71	33.4	330	1.08	0.20	3.40	0.15	47.2	38.7	196	0.93	104.5
S727024		0.91	0.018	0.10	7.46	100.0	510	1.55	0.38	2.18	0.17	75.5	33.0	155	1.99	126.5
S727025		0.87	0.026	0.14	7.34	123.0	470	1.49	0.45	2.28	0.26	71.3	40.9	148	1.53	155.0
S727026		1.21	0.030	0.11	7.46	335	480	1.74	0.30	2.18	0.24	74.0	31.9	113	1.84	143.5
S727027		1.15	0.132	0.13	7.30	295	470	1.31	0.44	2.09	0.18	72.0	38.7	103	1.78	255
S727028		1.24	0.045	0.13	7.19	200	460	1.40	0.73	1.89	0.12	75.2	39.0	109	2.60	443
S727029		0.97	0.227	0.22	7.39	196.0	490	1.46	0.59	2.06	0.09	74.7	43.3	99	2.40	515



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S726990		1.67	14.35	<0.05	1.2	0.018	1.27	8.6	8.3	0.53	271	0.14	2.81	2.8	20.6
S726991		5.47	20.4	0.09	3.9	0.061	1.31	29.5	18.6	1.78	874	0.56	2.00	24.8	57.9
S726992		5.55	20.4	0.10	4.6	0.068	1.16	31.6	14.7	1.68	1100	0.50	2.10	23.8	47.9
S726993		5.51	20.7	0.12	4.4	0.061	1.57	40.3	25.8	1.94	805	0.84	2.00	31.2	108.5
S726994		4.08	19.15	0.12	4.5	0.055	1.58	37.8	21.2	1.31	606	0.75	2.27	26.4	45.3
S726995		4.69	19.60	0.12	4.4	0.046	1.67	34.3	22.4	1.66	519	0.65	2.19	29.5	64.2
S726996		4.83	19.75	0.12	4.2	0.051	1.63	38.5	23.0	1.67	867	0.80	2.10	20.5	74.7
S726997		5.11	21.4	0.18	5.8	0.058	1.58	45.3	24.4	1.54	803	0.75	2.31	37.8	58.1
S726998		5.78	22.3	0.11	4.4	0.061	1.77	42.9	28.3	1.82	787	1.12	2.16	26.3	83.7
S726999		4.79	20.8	0.19	4.3	0.056	1.84	40.5	29.0	1.57	765	0.94	2.12	18.7	61.5
S727000		5.27	18.65	0.17	4.7	0.052	1.37	35.6	21.0	1.66	884	0.66	2.20	51.0	109.0
S727001		4.96	20.2	0.21	5.1	0.068	1.49	42.7	21.9	1.52	1060	0.71	2.23	36.2	50.3
S727002		4.34	19.15	0.19	5.1	0.062	1.49	38.0	23.1	1.24	830	0.70	2.42	38.6	31.8
S727003		4.25	18.70	0.23	5.9	0.061	1.37	50.6	18.0	1.21	783	0.59	2.34	48.3	33.4
S727004		5.56	20.5	0.20	4.0	0.067	1.38	40.2	22.6	1.81	896	0.73	2.17	26.8	48.7
S727005		5.28	20.7	0.20	4.4	0.071	1.47	46.3	23.3	1.57	868	0.78	2.30	44.2	42.1
S727006		6.04	20.8	0.15	3.6	0.065	1.25	31.4	22.7	2.26	1160	0.77	2.02	16.6	79.0
S727007		5.27	21.4	0.21	4.5	0.062	1.62	46.1	28.9	1.81	838	0.84	2.17	24.7	62.1
S727008		4.79	20.2	0.17	4.1	0.060	1.47	36.5	21.8	1.64	792	0.61	2.31	28.0	48.9
S727009		4.70	19.70	0.18	4.4	0.060	1.63	36.0	22.7	1.63	767	0.63	2.33	24.0	49.1
S727010		4.31	18.65	0.17	5.3	0.051	1.48	32.2	20.6	1.37	663	0.77	2.20	26.0	47.4
S727011		4.45	18.70	0.16	4.9	0.052	1.52	30.3	20.8	1.41	667	0.71	2.25	25.1	47.8
S727012		4.66	20.5	0.20	5.3	0.058	1.77	44.0	25.5	1.49	740	0.88	2.31	25.6	53.4
S727013		4.83	18.55	0.18	4.7	0.056	1.43	32.8	19.7	1.57	1220	0.79	2.18	20.5	46.6
S727014		4.63	20.3	0.19	4.6	0.054	1.62	39.6	23.5	1.53	679	0.75	2.23	30.3	50.5
S727015		5.15	19.75	0.18	4.2	0.056	1.54	33.9	21.3	1.59	803	0.65	2.21	23.1	48.8
S727016		6.66	21.2	0.16	3.6	0.066	1.55	32.6	26.0	1.89	967	0.81	2.04	20.7	55.9
S727017		6.31	20.5	0.18	4.1	0.060	1.43	35.5	21.1	1.72	866	0.74	2.09	22.5	46.6
S727018		4.52	20.1	0.19	4.9	0.058	1.55	39.3	24.2	1.38	642	0.81	2.21	22.6	41.2
S727019		4.85	19.50	0.17	5.2	0.057	1.61	40.0	24.5	1.52	682	0.84	2.08	23.5	56.4
S727020		5.37	21.0	0.18	4.4	0.067	1.55	34.3	24.6	1.74	937	0.66	2.20	21.5	54.3
S727021		5.10	21.2	0.19	4.4	0.056	1.68	39.4	26.5	1.65	772	0.91	2.18	24.2	61.8
S727022		6.88	20.2	0.15	2.9	0.071	0.96	23.4	18.3	2.62	1200	0.59	1.92	23.4	90.8
S727023		6.78	19.95	0.15	2.7	0.065	0.86	21.5	16.9	2.90	1220	0.57	1.94	12.7	99.1
S727024		5.73	20.4	0.19	4.1	0.063	1.57	37.0	25.8	1.95	883	0.76	2.04	23.3	86.3
S727025		5.96	19.90	0.18	3.8	0.059	1.45	32.8	22.3	1.89	1020	0.63	2.06	21.1	78.6
S727026		6.22	20.7	0.20	4.2	0.068	1.50	36.1	24.5	1.88	1080	0.70	1.99	21.9	59.5
S727027		6.50	20.3	0.17	4.5	0.072	1.52	33.8	22.8	1.66	904	0.82	1.98	20.4	46.8
S727028		7.14	20.2	0.16	4.4	0.061	1.56	33.0	26.3	1.69	807	0.89	1.77	19.8	50.9
S727029		7.01	20.3	0.17	3.7	0.063	1.65	35.4	25.5	1.72	801	0.82	1.86	22.3	47.2



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Project: QK-2016-TS-005

CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S726990		6.5	44.0	<0.002	<0.01	0.05	6.0	<1	0.5	372	0.23	<0.05	1.25	0.148	0.3
S726991		9.9	45.8	<0.002	0.01	0.69	22.9	<1	1.7	293	1.24	<0.05	6.28	0.660	1.3
S726992		11.4	37.4	<0.002	<0.01	0.89	27.0	1	1.8	338	1.35	<0.05	5.77	0.782	1.7
S726993		13.0	65.9	<0.002	0.01	0.72	19.3	1	1.6	255	1.36	0.07	9.69	0.570	2.0
S726994		12.7	60.2	<0.002	0.01	0.32	16.3	<1	1.5	285	1.24	<0.05	7.78	0.556	1.9
S726995		11.6	61.9	<0.002	<0.01	0.41	17.5	1	1.5	272	1.65	0.05	7.60	0.624	2.6
S726996		12.9	63.8	<0.002	0.01	0.47	18.0	<1	1.5	267	1.09	0.05	8.12	0.549	1.7
S726997		13.1	65.4	<0.002	0.01	0.41	18.2	1	1.8	320	1.55	0.06	8.75	0.656	2.1
S726998		14.2	76.1	<0.002	0.01	0.63	19.7	1	1.7	291	1.29	0.13	9.30	0.594	2.2
S726999		15.0	77.3	<0.002	<0.01	0.44	15.8	1	1.5	266	1.09	<0.05	9.42	0.524	2.6
S727000		13.2	49.7	<0.002	0.01	0.72	16.8	1	1.5	310	1.96	0.08	7.83	0.670	2.2
S727001		13.0	55.9	<0.002	0.01	0.48	17.2	2	1.7	327	1.51	<0.05	8.14	0.671	2.3
S727002		22.2	56.0	<0.002	0.01	0.30	14.7	1	1.7	341	1.95	<0.05	7.52	0.659	2.0
S727003		13.6	50.9	<0.002	<0.01	0.36	16.1	2	1.7	332	2.34	<0.05	8.13	0.726	2.4
S727004		12.1	51.2	<0.002	0.01	0.56	19.0	2	1.6	307	1.36	0.07	7.28	0.635	1.8
S727005		18.6	57.8	<0.002	0.01	0.54	17.9	1	1.8	318	1.92	<0.05	7.93	0.694	2.1
S727006		10.0	50.2	<0.002	0.01	0.68	21.7	1	1.5	291	1.00	0.05	6.21	0.592	1.4
S727007		14.0	67.0	<0.002	0.01	0.45	17.2	1	1.7	312	1.29	0.05	9.29	0.566	2.1
S727008		11.4	52.4	<0.002	0.01	0.43	17.3	1	1.6	330	1.31	<0.05	7.44	0.602	1.7
S727009		11.5	59.3	<0.002	<0.01	0.41	16.4	1	1.6	329	1.26	<0.05	6.66	0.588	1.8
S727010		12.5	53.2	<0.002	0.01	0.44	15.5	1	1.6	298	1.33	<0.05	7.18	0.624	1.7
S727011		12.6	53.4	<0.002	0.01	0.44	15.5	1	1.5	307	1.27	<0.05	6.27	0.635	1.6
S727012		14.5	66.8	<0.002	<0.01	0.45	15.7	2	1.6	304	1.36	<0.05	9.16	0.584	2.0
S727013		11.3	53.1	<0.002	0.01	0.56	17.5	1	1.5	297	1.22	<0.05	6.71	0.648	1.7
S727014		13.0	64.1	<0.002	<0.01	0.47	16.7	1	1.6	307	1.39	<0.05	8.69	0.602	2.1
S727015		11.0	57.9	<0.002	0.01	0.51	17.3	1	1.5	316	1.26	0.08	6.40	0.626	1.7
S727016		11.3	68.6	<0.002	0.01	0.61	19.7	2	1.5	290	1.15	0.11	6.38	0.635	1.8
S727017		10.1	60.2	<0.002	0.01	0.54	19.7	2	1.5	311	1.15	0.08	5.70	0.678	1.5
S727018		13.4	61.3	<0.002	0.01	0.42	16.0	1	1.5	298	1.19	0.06	7.94	0.563	2.0
S727019		13.3	64.8	<0.002	0.01	0.55	16.5	1	1.5	274	1.35	<0.05	8.35	0.597	2.1
S727020		11.6	62.0	<0.002	0.01	0.60	18.7	1	1.6	298	1.20	0.07	7.45	0.617	1.7
S727021		13.5	69.8	<0.002	0.01	0.59	17.8	1	1.6	284	1.39	0.05	8.38	0.592	2.0
S727022		8.2	34.4	<0.002	0.01	1.01	24.6	2	1.5	292	2.26	0.06	4.74	0.664	3.8
S727023		7.1	27.2	<0.002	<0.01	0.89	24.2	1	1.4	300	0.77	0.05	3.49	0.661	0.9
S727024		12.5	65.3	<0.002	0.01	1.01	19.3	1	1.5	273	1.27	0.05	7.85	0.582	1.7
S727025		13.6	54.2	<0.002	0.01	1.17	19.8	1	1.4	285	1.16	0.07	6.91	0.592	1.4
S727026		12.6	60.2	<0.002	0.01	1.01	19.4	2	1.5	273	1.15	0.06	7.47	0.605	1.5
S727027		12.2	61.2	<0.002	0.01	1.21	18.7	2	1.5	272	1.16	0.12	5.93	0.623	1.7
S727028		11.8	77.7	<0.002	0.01	0.61	18.5	1	1.4	253	1.16	0.10	6.12	0.646	1.7
S727029		11.7	76.8	<0.002	0.01	0.53	18.4	2	1.4	267	1.25	0.15	7.00	0.638	1.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S726990		38	0.2	5.7	20	43.5
S726991		150	1.0	20.2	96	144.0
S726992		165	1.0	25.8	87	170.0
S726993		135	0.9	20.0	98	159.0
S726994		109	0.6	17.7	74	166.5
S726995		127	0.7	18.1	82	157.5
S726996		123	0.7	19.1	92	152.5
S726997		128	0.9	20.9	88	213
S726998		140	0.8	21.1	142	161.0
S726999		127	0.6	18.8	98	157.0
S727000		133	0.8	19.8	91	178.5
S727001		132	0.7	22.4	91	190.5
S727002		108	0.5	18.7	90	190.5
S727003		118	0.7	22.9	73	219
S727004		141	0.8	21.7	109	151.0
S727005		136	0.8	21.9	106	166.0
S727006		156	0.9	20.6	124	126.5
S727007		129	0.7	21.9	114	161.0
S727008		128	0.6	18.3	86	154.0
S727009		124	0.6	17.9	91	162.0
S727010		116	0.6	16.3	72	192.0
S727011		119	0.6	16.7	73	178.5
S727012		121	0.7	19.9	94	194.0
S727013		135	0.8	18.8	91	163.5
S727014		123	0.7	19.5	94	172.0
S727015		132	2.0	19.5	95	157.5
S727016		155	1.4	20.2	118	136.0
S727017		154	2.5	21.8	94	153.0
S727018		115	2.0	18.0	79	177.0
S727019		126	1.7	19.5	91	186.5
S727020		140	2.3	19.0	97	161.5
S727021		131	0.8	19.7	100	162.0
S727022		178	1.2	21.5	114	106.5
S727023		181	1.0	20.8	120	98.2
S727024		139	1.2	21.3	104	150.0
S727025		141	1.1	21.2	111	138.5
S727026		146	1.2	23.1	124	156.5
S727027		141	1.7	23.4	105	164.0
S727028		144	1.5	20.1	93	160.5
S727029		146	1.5	20.6	101	136.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727030		0.06	0.025	0.14	8.32	15.0	190	0.78	0.33	0.19	0.03	36.2	31.0	551	3.99	372
S727031		1.58	0.014	0.11	7.06	15.3	500	1.46	0.16	2.22	0.09	83.8	19.3	92	1.83	244
S727032		1.43	0.007	0.10	7.14	10.2	510	1.44	0.13	2.18	0.13	80.5	22.6	113	1.72	183.0
S727033		1.22	0.030	0.04	7.09	10.5	460	1.42	0.13	2.52	0.09	82.0	21.6	109	1.34	90.1
S727034		1.02	0.003	0.04	7.51	7.1	500	1.53	0.11	2.40	0.09	76.4	23.7	126	1.66	57.2
S727035		1.13	0.004	0.03	7.12	3.9	490	1.54	0.09	2.75	0.13	74.0	20.2	107	1.22	43.3
S727036		1.10	0.004	0.04	7.19	5.9	330	1.21	0.11	3.38	0.11	56.0	25.9	129	0.74	61.6
S727037		1.17	0.005	0.07	7.51	12.2	500	1.60	0.13	2.17	0.07	76.3	27.9	102	1.86	135.0
S727038		1.22	0.022	0.06	7.36	16.0	480	1.56	0.16	2.30	0.13	73.6	25.4	87	1.48	101.5
S727039		1.25	0.010	0.07	7.59	15.6	540	1.75	0.13	2.11	0.10	85.9	24.3	100	2.33	154.5
S727040		1.19	0.014	0.08	7.47	192.5	540	1.75	0.14	2.01	0.15	89.3	30.9	97	2.47	155.0
S727041		1.36	0.044	0.14	7.65	48.2	550	1.78	0.18	2.05	0.13	83.8	29.5	91	2.88	269
S727042		1.05	0.133	0.09	7.13	49.8	510	1.62	0.11	2.36	0.09	85.9	21.8	92	1.49	175.5
S727043		1.22	0.044	0.08	7.17	243	520	1.61	0.24	2.31	0.10	92.2	37.6	80	2.26	206
S727044		1.25	0.021	0.16	7.29	88.1	500	1.72	0.53	2.19	0.18	85.1	29.6	121	2.08	110.5
S727045		1.31	0.012	0.06	7.13	36.1	500	1.75	0.17	2.42	0.10	85.5	22.5	103	1.47	59.2
S727046		1.33	0.003	0.05	6.98	22.3	510	1.64	0.14	2.33	0.11	79.9	18.1	112	1.39	45.0
S727047		1.52	0.001	0.04	7.08	12.1	530	1.63	0.08	2.05	0.10	81.2	18.7	114	1.74	40.5
S727048		1.11	0.022	0.06	7.33	68.8	380	1.22	0.20	3.02	0.12	59.9	34.3	136	1.27	85.1
S727049		1.39	0.034	0.07	7.55	72.6	510	1.82	0.16	2.24	0.16	99.6	29.3	130	2.01	69.2
S727050		0.17	0.001	0.03	6.15	0.7	390	1.12	0.04	1.72	0.04	19.10	6.1	45	0.85	7.4
S727051		1.22	0.002	0.06	7.13	6.5	530	2.06	0.10	2.18	0.19	91.6	20.9	105	1.70	45.3
S727052		1.08	0.006	0.06	6.61	10.3	460	1.60	0.09	2.20	0.08	79.6	23.1	163	1.56	48.1
S727053		0.86	0.012	0.06	6.87	13.9	470	1.66	0.12	2.36	0.12	82.5	27.9	185	1.57	65.2
S727054		0.99	0.005	0.06	7.37	13.3	550	1.79	0.15	2.02	0.15	82.5	27.5	131	2.05	87.4
S727055		1.00	0.006	0.05	7.50	15.9	510	1.68	0.15	2.23	0.10	78.0	28.9	141	1.79	74.7
S727056		0.95	0.004	0.08	7.32	7.1	520	1.76	0.13	1.92	0.11	83.6	29.0	126	1.99	53.8
S727057		1.04	0.004	0.04	7.00	16.9	420	1.26	0.12	2.65	0.13	64.2	24.7	142	1.15	44.2
S727058		1.00	0.004	0.06	7.60	7.8	400	1.29	0.13	3.06	0.16	57.4	31.2	169	1.21	64.5
S727059		1.25	0.003	0.08	7.48	8.0	420	1.29	0.13	2.83	0.21	66.5	29.8	152	1.37	71.7
S727060		1.09	<0.001	0.09	7.60	8.9	440	1.43	0.14	2.85	0.22	69.0	31.0	153	1.46	74.7
S727061		1.01	0.007	0.05	7.32	7.0	360	1.13	0.13	3.10	0.13	54.9	28.2	168	1.00	60.5
S727062		0.93	0.004	0.06	7.27	6.6	380	1.23	0.13	3.11	0.15	64.5	27.9	145	1.07	54.2
S727063		0.89	0.009	0.07	7.15	5.2	460	1.46	0.11	2.72	0.11	75.6	22.3	114	1.42	47.0
S727064		1.00	0.001	0.06	7.48	6.1	540	1.69	0.11	2.34	0.20	84.6	24.2	129	1.96	54.9
S727065		1.22	0.001	0.05	7.31	6.7	470	1.63	0.12	2.54	0.13	69.0	25.7	148	1.62	50.7
S727066		1.12	0.007	0.06	7.14	7.1	390	1.15	0.12	2.95	0.17	62.2	27.4	135	1.00	56.7
S727067		0.91	0.002	0.07	7.19	6.9	550	1.82	0.10	2.43	0.19	99.3	20.3	100	1.75	45.8
S727068		0.91	0.020	0.07	7.03	21.0	510	3.20	0.12	2.75	0.13	96.6	23.1	87	1.27	88.8
S727069		1.14	0.003	0.06	7.26	16.0	550	1.90	0.10	2.21	0.18	90.6	21.4	108	1.93	48.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727030		14.60	22.3	0.12	4.1	0.091	0.42	17.3	23.6	0.23	480	2.52	0.10	15.1	237	440
S727031		5.24	19.20	0.19	4.4	0.054	1.58	40.4	21.3	1.45	643	0.68	2.12	26.0	39.2	1370
S727032		4.67	19.70	0.18	4.6	0.061	1.52	38.9	23.0	1.51	746	0.80	2.14	26.7	47.3	1150
S727033		4.75	20.0	0.20	4.4	0.058	1.31	38.2	20.6	1.60	764	0.60	2.22	25.9	44.8	1100
S727034		5.16	20.5	0.18	4.7	0.057	1.44	32.0	23.9	1.77	853	0.80	2.19	23.5	54.5	1110
S727035		4.66	20.4	0.19	4.7	0.061	1.32	36.5	18.9	1.64	777	0.59	2.32	26.4	47.6	1220
S727036		5.30	20.4	0.17	3.6	0.073	0.89	26.1	14.0	1.99	977	0.52	2.15	15.4	58.2	1040
S727037		5.51	21.5	0.19	3.9	0.063	1.42	34.7	24.9	1.69	894	0.78	2.07	19.2	53.5	830
S727038		5.24	20.6	0.18	4.1	0.067	1.42	33.4	20.9	1.53	837	0.63	2.09	23.0	42.5	780
S727039		5.44	22.3	0.20	4.4	0.063	1.63	42.4	26.8	1.60	707	0.74	2.12	24.7	48.3	1020
S727040		5.86	22.1	0.20	4.3	0.063	1.67	42.3	27.1	1.65	735	0.75	2.02	24.0	53.5	1060
S727041		6.47	23.0	0.21	4.1	0.062	1.76	41.6	29.4	1.73	776	0.92	2.01	25.3	50.8	1130
S727042		4.60	20.4	0.21	5.0	0.064	1.57	41.5	20.2	1.33	717	0.67	2.33	37.8	37.8	1220
S727043		5.82	21.1	0.20	4.2	0.058	1.67	42.2	22.6	1.47	765	0.74	2.15	29.4	39.4	1370
S727044		5.36	21.4	0.20	4.1	0.067	1.55	40.3	25.1	1.70	842	0.82	2.05	23.9	59.9	1230
S727045		4.77	21.4	0.18	4.9	0.062	1.52	41.6	21.5	1.49	755	0.69	2.34	35.9	47.2	1350
S727046		4.27	19.90	0.18	5.3	0.055	1.54	40.0	19.6	1.34	645	0.66	2.35	24.6	43.2	1160
S727047		4.39	20.7	0.20	4.5	0.055	1.63	40.2	22.4	1.38	648	0.84	2.23	21.4	52.8	1000
S727048		5.99	20.9	0.17	3.4	0.070	1.14	28.6	18.2	2.01	1010	0.62	2.05	21.6	67.0	1050
S727049		5.60	22.9	0.21	4.3	0.067	1.54	44.2	25.9	1.83	746	0.91	2.17	23.9	68.8	930
S727050		1.64	15.20	0.12	1.2	0.019	1.24	9.1	8.9	0.51	270	0.16	2.75	3.0	20.5	210
S727051		4.34	20.8	0.22	5.1	0.064	1.55	44.4	22.7	1.42	611	0.74	2.31	39.2	49.5	1270
S727052		4.50	19.40	0.19	4.8	0.056	1.38	34.3	21.5	1.57	751	0.63	2.12	28.6	76.7	980
S727053		4.84	20.3	0.19	4.9	0.062	1.38	41.7	20.3	1.82	811	0.55	2.21	31.1	113.5	1200
S727054		5.07	21.4	0.19	4.5	0.057	1.68	41.1	25.9	1.64	900	0.89	2.16	24.3	74.7	930
S727055		5.60	22.1	0.19	4.6	0.064	1.52	38.6	24.1	1.78	856	1.06	2.17	47.1	73.5	860
S727056		5.44	21.0	0.19	4.7	0.055	1.60	39.8	24.9	1.65	781	0.94	2.08	22.8	58.7	890
S727057		4.88	19.80	0.17	3.8	0.057	1.25	29.7	17.5	1.82	901	0.67	2.17	19.9	66.3	1050
S727058		5.95	21.4	0.16	3.3	0.064	1.07	26.1	18.0	2.39	1080	0.63	2.08	19.4	85.5	1050
S727059		5.71	20.6	0.17	3.8	0.065	1.17	29.9	18.9	2.16	1080	0.76	2.04	17.2	79.1	1080
S727060		5.80	21.9	0.19	3.7	0.065	1.22	31.1	20.6	2.19	1080	0.80	2.11	18.8	82.2	1110
S727061		5.79	20.5	0.17	3.6	0.071	0.94	24.7	15.9	2.25	1080	0.62	2.00	16.3	76.7	840
S727062		5.48	20.9	0.18	3.3	0.063	1.02	30.3	16.2	2.08	1050	0.59	2.10	18.3	66.5	1070
S727063		4.96	21.0	0.19	4.3	0.060	1.30	36.6	19.2	1.73	869	0.62	2.20	23.2	53.9	1230
S727064		5.19	22.0	0.20	4.7	0.059	1.61	43.7	24.5	1.81	852	0.83	2.21	26.9	66.5	1190
S727065		5.32	20.3	0.18	4.1	0.061	1.31	31.3	21.0	1.92	1000	0.71	2.07	23.3	63.9	1020
S727066		5.21	20.1	0.16	3.5	0.069	1.08	28.5	15.9	1.94	1040	0.52	2.10	18.0	64.3	970
S727067		4.51	21.3	0.21	4.9	0.053	1.67	48.0	22.3	1.43	762	0.80	2.39	36.1	46.4	1520
S727068		4.67	20.4	0.21	4.6	0.064	1.49	44.6	18.4	1.42	811	0.70	2.49	45.2	37.4	1740
S727069		4.64	21.2	0.20	4.5	0.054	1.67	43.9	24.1	1.52	681	0.75	2.29	44.4	50.8	1320



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727030		20.7	42.2	<0.002	0.05	0.91	49.7	4	2.6	32.8	1.16	0.07	13.45	0.763	2.5
S727031		11.6	64.7	<0.002	0.01	0.34	16.3	2	1.4	307	1.44	0.05	6.67	0.623	2.0
S727032		12.6	58.5	<0.002	0.01	0.43	16.5	2	1.5	297	1.35	<0.05	7.87	0.593	2.2
S727033		11.7	47.1	<0.002	0.01	0.45	17.7	1	1.6	328	1.29	0.05	7.45	0.640	1.7
S727034		11.8	58.0	<0.002	0.01	0.47	17.4	1	1.6	312	1.25	<0.05	7.14	0.609	1.8
S727035		11.1	51.6	<0.002	<0.01	0.46	18.8	2	1.6	350	1.28	<0.05	7.10	0.646	1.8
S727036		6.9	29.3	<0.002	<0.01	0.73	23.8	2	1.6	334	0.80	<0.05	4.05	0.713	1.2
S727037		12.5	59.5	<0.002	0.02	0.55	18.1	2	1.5	296	0.99	0.05	8.35	0.551	1.7
S727038		11.4	53.1	<0.002	0.01	0.70	18.1	1	1.5	319	1.11	<0.05	7.52	0.565	2.0
S727039		12.0	75.8	<0.002	0.01	0.43	18.6	2	1.7	299	1.21	<0.05	9.23	0.621	2.1
S727040		12.0	80.3	<0.002	0.01	0.52	18.6	2	1.6	278	1.14	0.09	9.13	0.597	2.0
S727041		11.9	92.5	<0.002	0.01	0.55	18.9	2	1.7	281	1.15	0.08	8.83	0.617	2.1
S727042		12.2	62.9	<0.002	0.01	0.39	17.1	2	1.7	339	1.49	0.06	9.21	0.639	2.4
S727043		11.4	79.0	<0.002	0.01	0.51	18.1	2	1.6	321	1.48	0.12	7.44	0.636	2.3
S727044		27.3	74.1	<0.002	0.01	1.65	19.1	2	1.6	290	1.14	0.08	8.66	0.580	1.9
S727045		17.9	63.4	<0.002	<0.01	0.86	18.2	2	1.8	329	1.42	<0.05	7.84	0.651	1.9
S727046		12.3	58.3	<0.002	<0.01	0.46	17.4	2	1.6	324	1.27	<0.05	8.58	0.631	2.1
S727047		12.8	65.8	<0.002	0.01	0.51	17.0	2	1.6	290	1.16	<0.05	9.07	0.580	2.4
S727048		8.2	46.7	<0.002	0.01	0.74	23.6	2	1.6	305	0.93	0.06	5.58	0.699	1.6
S727049		13.3	67.8	<0.002	0.02	0.67	19.9	2	1.7	299	1.15	0.06	9.31	0.603	2.0
S727050		6.5	48.9	<0.002	<0.01	0.10	6.2	1	0.4	370	0.21	<0.05	1.42	0.149	0.3
S727051		13.3	66.4	<0.002	0.01	0.40	17.4	2	1.7	305	1.42	<0.05	9.07	0.604	2.3
S727052		12.1	57.6	<0.002	0.01	0.42	17.3	1	1.6	287	2.13	0.05	7.90	0.618	3.4
S727053		11.3	55.8	<0.002	0.01	0.64	19.5	2	1.7	307	1.50	0.07	8.21	0.644	1.9
S727054		13.0	73.5	<0.002	0.01	0.53	18.0	2	1.7	280	1.19	0.08	9.84	0.578	2.1
S727055		11.4	58.6	<0.002	0.01	0.66	20.4	2	1.8	293	1.81	0.09	8.16	0.634	2.0
S727056		12.1	68.7	<0.002	0.01	0.47	18.1	2	1.6	267	1.14	0.17	9.19	0.569	2.2
S727057		9.6	45.8	<0.002	<0.01	0.60	20.8	2	1.5	309	1.00	<0.05	6.15	0.616	1.5
S727058		8.5	39.5	<0.002	<0.01	0.76	24.7	2	1.6	311	0.91	0.06	5.38	0.644	1.4
S727059		9.4	46.8	<0.002	<0.01	0.66	22.2	1	1.5	301	0.90	0.06	6.13	0.622	1.4
S727060		10.0	47.8	<0.002	<0.01	0.70	23.3	2	1.6	307	0.98	<0.05	6.40	0.643	1.6
S727061		7.9	31.1	<0.002	0.01	0.79	24.2	2	1.5	305	0.86	0.05	5.52	0.688	1.3
S727062		8.6	39.0	<0.002	<0.01	0.70	24.3	2	1.6	313	0.94	0.05	5.77	0.670	1.4
S727063		10.3	51.9	<0.002	<0.01	0.50	20.1	1	1.7	325	1.07	<0.05	6.97	0.632	1.7
S727064		12.4	65.9	<0.002	<0.01	0.48	18.9	1	1.7	303	1.51	0.05	9.15	0.575	2.6
S727065		10.3	53.4	<0.002	0.01	0.54	19.9	2	1.6	297	1.13	<0.05	7.25	0.604	1.7
S727066		8.5	39.7	<0.002	<0.01	0.66	22.9	1	1.5	314	0.89	<0.05	5.16	0.658	1.2
S727067		13.5	71.8	<0.002	<0.01	0.34	17.4	2	1.7	331	1.57	<0.05	17.45	0.627	2.5
S727068		12.1	57.7	<0.002	<0.01	0.39	17.8	2	1.7	345	2.21	<0.05	9.34	0.692	3.2
S727069		13.5	74.1	<0.002	0.01	0.33	17.5	2	1.8	301	1.88	<0.05	10.25	0.612	2.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727030		232	1.7	10.0	45	145.0
S727031		125	1.0	19.0	84	164.5
S727032		122	0.7	19.3	89	169.0
S727033		129	0.7	19.8	88	160.0
S727034		135	1.2	17.8	99	177.5
S727035		129	0.7	19.3	83	177.5
S727036		160	0.9	21.2	86	132.0
S727037		135	0.7	18.9	105	142.5
S727038		128	0.7	19.2	106	155.5
S727039		130	0.8	21.0	97	164.0
S727040		134	0.9	21.6	103	161.5
S727041		141	1.0	21.5	110	156.5
S727042		119	0.7	19.9	75	189.5
S727043		128	0.9	21.0	84	160.5
S727044		133	0.9	21.3	117	151.5
S727045		126	0.7	20.7	91	186.0
S727046		117	0.7	19.9	76	194.5
S727047		118	0.6	19.4	82	167.0
S727048		161	1.1	22.0	89	126.5
S727049		140	0.8	21.0	108	162.5
S727050		38	0.2	6.1	20	45.8
S727051		120	0.6	21.5	88	184.5
S727052		120	0.6	18.1	74	173.0
S727053		129	0.7	21.2	82	184.5
S727054		130	0.7	19.9	94	169.5
S727055		143	0.8	21.6	89	169.5
S727056		131	0.7	19.9	92	165.5
S727057		138	0.9	19.5	87	140.0
S727058		164	0.9	21.5	109	123.0
S727059		154	0.9	21.0	114	139.5
S727060		157	0.9	21.7	118	135.5
S727061		166	0.9	21.3	104	132.0
S727062		156	0.9	23.1	103	124.0
S727063		136	0.7	20.9	94	158.0
S727064		137	0.8	20.5	108	178.5
S727065		141	0.7	18.6	106	151.5
S727066		154	0.8	21.5	95	129.5
S727067		120	0.6	21.8	86	183.0
S727068		130	0.7	22.7	78	178.0
S727069		125	0.7	21.0	99	167.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727070		1.05	0.007	0.06	6.87	12.6	500	1.76	0.10	2.42	0.13	88.0	18.6	100	1.44	88.9
S727071		1.23	0.004	0.06	7.17	7.4	530	1.67	0.11	2.18	0.14	88.0	22.4	112	1.79	59.4
S727072		0.89	0.075	0.13	7.01	10.9	490	1.64	0.15	2.61	0.15	91.8	40.0	168	1.79	205
S727073		1.00	0.002	0.07	7.95	15.4	620	1.77	0.13	1.90	0.16	89.6	29.8	149	2.73	72.0
S727074		1.25	0.166	0.14	7.14	41.4	480	1.42	0.19	2.36	0.17	80.1	35.0	177	1.79	268
S727075		0.85	0.065	0.09	7.66	29.2	540	1.64	0.15	2.53	0.20	90.0	30.5	138	2.01	139.5
S727076		1.27	0.006	0.05	7.04	19.6	490	2.56	0.19	2.55	0.15	105.0	21.3	98	1.34	58.7
S727077		1.28	0.016	0.03	6.92	41.9	480	1.47	0.63	2.65	0.12	88.3	28.0	112	1.32	121.0
S727078		1.21	0.132	0.06	6.67	70.3	460	1.39	0.79	2.69	0.16	89.8	29.8	136	1.36	167.5
S727079		1.25	0.007	0.06	7.28	6.8	530	1.76	0.11	2.41	0.10	95.5	21.8	110	1.74	67.6
S727080		0.07	0.022	0.16	8.13	13.7	190	0.71	0.33	0.19	0.04	39.2	32.0	543	3.97	369
S727081		1.02	0.007	0.06	7.31	14.2	570	1.58	0.14	2.15	0.21	92.7	25.9	127	2.08	69.5
S727082		0.93	0.010	0.02	7.47	6.1	540	1.60	0.10	2.31	0.07	94.7	21.6	114	1.73	59.9
S727083		1.22	0.001	0.07	7.02	4.2	550	1.61	0.09	2.24	0.15	93.8	19.5	101	1.73	37.4
S727084		1.26	0.003	0.06	7.22	17.2	540	1.57	0.13	2.45	0.14	103.5	22.7	103	1.60	48.5
S727085		1.15	0.005	0.05	7.34	25.8	530	1.62	0.12	2.51	0.12	102.5	24.4	105	1.64	75.3
S727086		1.02	0.008	0.04	6.75	10.0	510	1.54	0.11	2.50	0.28	105.5	22.1	98	1.35	53.5
S727087		0.84	0.005	0.08	7.47	23.8	420	1.32	0.20	3.15	0.20	83.0	38.6	97	1.12	139.5
S727088		1.11	0.003	0.04	6.85	4.6	490	1.54	0.07	2.45	0.11	102.5	17.1	86	1.28	38.4
S727089		1.15	0.001	0.04	7.29	8.2	430	1.31	0.11	2.58	0.10	75.0	23.9	103	1.32	79.3
S727090		1.15	0.003	0.06	7.12	6.8	440	1.27	0.13	2.93	0.10	75.4	27.4	104	1.02	86.9
S727091		1.10	0.002	0.10	7.56	97.4	530	1.66	0.12	2.32	0.20	93.0	27.0	121	2.05	124.5
S727092		1.06	0.007	0.03	7.49	8.0	450	1.24	0.13	2.67	0.09	68.1	28.3	116	1.26	93.0
S727384		1.08	<0.001	0.04	6.89	2.6	530	1.40	0.07	2.07	0.21	79.5	16.1	83	1.44	26.1
S727385		1.17	0.002	0.06	7.57	9.3	580	1.51	0.10	2.05	0.10	89.2	21.6	132	2.02	40.9
S727386		1.00	0.023	0.06	7.01	29.9	520	1.49	0.12	2.25	0.11	92.1	29.2	142	1.46	47.4
S727387		0.90	0.015	0.05	7.08	14.9	520	1.42	0.12	2.28	0.07	83.8	21.4	113	1.32	33.0
S727388		0.94	0.005	0.09	7.46	15.1	560	1.78	0.15	2.10	0.19	90.5	31.0	158	2.47	68.2
S727389		1.14	0.003	0.05	6.83	4.2	510	1.37	0.09	2.10	0.19	89.1	18.0	119	1.50	32.5
S727390		1.20	<0.001	0.03	6.34	4.5	470	1.39	0.08	1.95	0.11	71.2	16.7	114	1.41	26.7
S727391		1.24	0.001	0.05	6.74	4.3	510	1.38	0.09	2.02	0.19	81.8	19.7	119	1.61	35.1
S727392		1.38	<0.001	0.06	6.56	4.3	510	1.28	0.08	1.89	0.20	74.2	15.3	86	1.54	29.4
S727393		1.24	0.002	0.03	6.50	3.4	490	1.24	0.08	2.00	0.18	77.6	15.4	112	1.31	28.6
S727394		1.04	0.006	0.06	7.12	11.0	540	1.49	0.12	2.06	0.16	81.8	27.6	156	2.09	73.5
S727395		1.20	0.013	0.07	6.86	28.3	480	1.41	0.14	2.33	0.14	84.1	29.3	147	1.67	64.0
S727396		1.14	0.006	0.09	7.33	15.5	520	1.54	0.15	2.12	0.19	88.9	32.4	202	2.07	74.0
S727397		1.08	0.010	0.04	6.99	12.4	390	0.98	0.13	3.95	0.12	61.8	29.8	308	0.89	44.7
S727398		1.27	<0.001	0.10	6.93	3.3	520	1.37	0.10	2.41	0.18	101.0	19.2	121	1.25	28.4
S727399		1.31	0.004	0.07	7.12	13.5	540	1.44	0.13	2.02	0.22	92.9	27.7	147	1.75	82.2
S727400		0.17	<0.001	0.03	6.24	0.6	390	0.93	0.04	1.74	0.03	19.50	7.2	50	0.77	9.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727070		4.28	19.90	0.19	4.5	0.060	1.48	43.0	19.6	1.34	661	0.63	2.36	33.7	39.4	1540
S727071		4.64	21.2	0.21	4.7	0.060	1.52	43.6	25.5	1.53	684	1.58	2.23	31.6	56.9	1060
S727072		5.42	20.4	0.20	4.7	0.070	1.47	45.7	21.7	2.02	855	0.83	2.26	36.4	163.5	1370
S727073		5.30	23.6	0.22	4.1	0.061	1.95	45.1	34.6	1.98	677	0.97	2.12	24.0	86.0	880
S727074		5.59	21.2	0.19	4.7	0.085	1.52	40.9	23.0	1.91	878	1.16	2.01	30.9	103.5	1180
S727075		5.71	22.0	0.20	4.7	0.070	1.59	43.4	27.1	1.91	805	0.96	2.20	30.8	76.2	1200
S727076		4.78	20.4	0.20	5.5	0.062	1.37	50.9	20.4	1.42	779	0.63	2.30	39.0	42.8	1390
S727077		4.79	19.45	0.19	4.8	0.064	1.40	42.0	18.3	1.51	918	0.74	2.33	37.8	55.2	1530
S727078		5.10	19.10	0.23	4.8	0.068	1.34	42.8	18.0	1.67	726	0.86	2.20	58.2	78.6	1700
S727079		4.78	21.8	0.23	4.7	0.067	1.50	45.6	25.3	1.57	703	0.71	2.27	39.0	50.7	1380
S727080		14.25	22.9	0.13	4.2	0.092	0.42	18.3	23.3	0.23	474	2.51	0.10	15.5	232	420
S727081		4.92	21.4	0.20	4.3	0.052	1.77	43.5	27.3	1.64	817	1.10	2.17	28.8	67.4	1150
S727082		4.67	21.1	0.21	5.5	0.061	1.59	44.9	24.6	1.59	641	0.66	2.32	33.6	51.2	1120
S727083		4.42	20.4	0.22	5.0	0.058	1.62	46.8	23.0	1.38	751	0.72	2.31	39.9	48.4	1350
S727084		4.72	20.8	0.20	5.4	0.062	1.56	50.4	22.3	1.47	805	0.67	2.37	49.3	48.9	1530
S727085		5.03	21.6	0.24	5.4	0.063	1.58	52.0	24.6	1.53	859	0.72	2.33	33.6	47.9	1510
S727086		4.41	20.4	0.22	5.1	0.055	1.49	49.0	20.7	1.36	1100	0.69	2.26	40.4	50.6	1570
S727087		6.44	20.5	0.19	4.4	0.072	1.22	37.4	19.2	1.84	994	0.81	2.15	32.9	46.1	1540
S727088		4.51	19.70	0.23	5.6	0.059	1.44	51.5	19.6	1.35	739	0.63	2.36	49.1	36.7	1700
S727089		5.29	20.7	0.18	4.5	0.062	1.22	34.9	20.4	1.71	838	0.67	2.14	26.7	45.0	1190
S727090		4.93	20.3	0.17	4.2	0.058	1.24	33.5	16.6	1.64	896	0.68	2.25	24.9	46.8	1250
S727091		5.36	21.6	0.22	5.2	0.065	1.59	45.0	26.6	1.73	949	1.17	2.15	25.9	58.6	1330
S727092		5.46	20.5	0.19	4.8	0.060	1.28	30.7	19.9	1.87	898	0.69	2.18	21.0	62.0	940
S727384		3.61	19.10	0.20	4.8	0.051	1.71	39.5	19.4	1.08	473	0.79	2.41	22.6	39.7	1090
S727385		4.92	21.2	0.21	4.6	0.057	1.76	44.2	25.9	1.64	720	0.76	2.26	25.1	61.5	1050
S727386		4.79	20.2	0.19	4.4	0.057	1.56	37.3	22.1	1.68	890	0.54	2.20	25.3	78.3	1160
S727387		4.35	20.3	0.20	5.0	0.062	1.56	39.0	20.1	1.42	739	0.57	2.36	29.5	53.2	1000
S727388		5.63	22.6	0.23	4.8	0.061	1.83	44.5	31.2	2.03	974	1.17	2.02	26.4	93.6	1160
S727389		4.14	20.1	0.21	5.8	0.056	1.62	43.7	21.0	1.27	532	0.91	2.28	22.9	52.9	1120
S727390		3.90	18.05	0.18	4.9	0.043	1.44	35.5	19.4	1.20	549	0.80	2.09	21.5	47.0	1010
S727391		4.32	19.40	0.20	5.0	0.054	1.63	40.9	21.7	1.35	670	0.89	2.15	23.0	55.8	1120
S727392		3.67	18.25	0.19	4.7	0.047	1.65	36.8	20.1	1.10	576	0.88	2.21	17.2	41.6	960
S727393		3.76	18.35	0.19	5.0	0.051	1.55	37.9	18.1	1.13	439	0.75	2.24	19.0	44.7	1060
S727394		5.18	20.0	0.21	4.4	0.057	1.61	42.5	25.7	1.75	879	1.05	2.03	23.5	83.4	1100
S727395		4.92	20.4	0.22	5.2	0.064	1.51	41.5	23.3	1.71	815	0.76	2.07	24.8	70.9	1190
S727396		6.02	20.9	0.21	4.4	0.061	1.65	45.6	24.8	2.04	811	1.00	2.00	30.8	108.5	1210
S727397		5.68	18.15	0.15	3.3	0.057	1.11	29.0	12.7	3.01	1160	0.30	1.98	13.5	109.5	1160
S727398		4.29	18.55	0.17	5.1	0.063	1.51	43.1	15.5	1.41	756	0.68	2.32	54.9	47.8	1480
S727399		6.76	19.80	0.16	4.2	0.066	1.57	42.4	19.2	1.71	944	1.09	1.95	24.6	82.4	1080
S727400		1.71	13.90	0.07	1.2	0.022	1.25	9.0	7.1	0.54	277	0.25	2.73	3.6	51.4	210



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727070		12.2	60.9	<0.002	0.01	0.34	17.2	2	1.7	322	1.45	<0.05	8.91	0.648	2.0
S727071		17.7	58.9	<0.002	0.01	0.40	16.1	1	1.7	297	1.59	<0.05	9.65	0.595	2.3
S727072		13.2	59.0	<0.002	0.01	0.48	17.9	2	1.7	320	1.51	0.11	9.10	0.636	1.8
S727073		16.0	86.1	<0.002	0.01	0.44	17.3	1	1.7	258	1.25	<0.05	11.45	0.553	2.5
S727074		12.7	62.3	<0.002	0.01	0.84	19.4	2	1.6	280	1.42	0.13	8.65	0.609	2.0
S727075		14.5	68.3	<0.002	<0.01	0.59	19.1	2	1.7	303	1.51	0.08	9.40	0.632	2.3
S727076		12.3	47.9	<0.002	0.01	0.39	16.7	2	1.9	328	1.73	0.05	9.29	0.698	2.1
S727077		12.0	51.7	<0.002	0.01	0.49	17.1	1	1.7	327	1.64	0.19	8.19	0.679	1.8
S727078		11.8	51.4	<0.002	0.01	0.50	16.8	2	1.7	316	1.99	0.23	10.90	0.678	1.8
S727079		13.4	61.4	<0.002	0.01	0.40	17.3	1	1.8	308	1.76	<0.05	10.70	0.671	2.2
S727080		20.8	41.8	<0.002	0.05	0.93	49.4	3	2.6	34.7	1.14	0.10	15.65	0.752	2.7
S727081		14.5	71.4	<0.002	0.01	0.44	16.2	1	1.6	283	2.20	<0.05	11.45	0.567	2.8
S727082		13.4	62.8	<0.002	0.01	0.35	17.0	1	1.6	317	1.68	<0.05	10.85	0.650	2.3
S727083		13.8	65.9	<0.002	<0.01	0.33	15.5	1	1.7	313	1.87	<0.05	10.10	0.609	2.9
S727084		13.9	62.4	<0.002	<0.01	0.38	16.4	1	1.8	333	2.23	<0.05	10.80	0.674	3.0
S727085		13.4	63.2	<0.002	0.01	0.41	17.4	2	1.8	333	1.57	<0.05	9.77	0.691	2.4
S727086		13.6	58.4	<0.002	<0.01	0.39	16.1	1	1.7	328	2.01	<0.05	10.55	0.658	3.0
S727087		11.8	43.2	<0.002	0.01	0.89	19.9	2	1.6	345	1.46	0.06	6.54	0.732	1.8
S727088		12.3	53.0	<0.002	0.01	0.33	15.2	1	1.7	338	2.22	<0.05	9.74	0.693	2.3
S727089		11.6	46.5	<0.002	0.01	0.53	17.0	1	1.6	326	1.23	<0.05	14.45	0.637	2.2
S727090		10.4	41.3	<0.002	0.01	0.61	17.9	1	1.6	351	1.15	<0.05	6.75	0.622	1.5
S727091		13.9	62.4	<0.002	0.01	0.55	17.1	2	1.6	304	1.35	<0.05	10.05	0.625	2.9
S727092		11.1	45.3	<0.002	0.01	0.60	19.0	1	1.6	325	1.11	0.05	6.58	0.626	1.5
S727384		14.2	60.5	<0.002	<0.01	0.33	14.4	1	1.4	307	1.21	<0.05	9.27	0.533	2.6
S727385		13.5	68.6	<0.002	0.01	0.47	16.6	2	1.6	287	1.30	<0.05	9.71	0.603	2.1
S727386		11.7	59.0	<0.002	0.01	0.67	16.7	1	1.6	295	1.23	0.05	8.47	0.578	1.9
S727387		12.5	55.7	<0.002	<0.01	0.49	16.4	2	1.6	317	1.44	<0.05	8.44	0.605	2.0
S727388		14.5	80.6	<0.002	0.01	0.62	17.5	2	1.7	265	1.34	0.05	10.50	0.566	2.1
S727389		13.6	60.0	<0.002	<0.01	0.41	15.9	1	1.6	297	1.26	<0.05	9.31	0.580	2.0
S727390		12.5	53.3	<0.002	0.01	0.40	14.7	1	1.5	269	1.21	<0.05	7.97	0.559	1.8
S727391		13.6	61.6	<0.002	<0.01	0.42	15.6	2	1.6	275	1.26	<0.05	9.44	0.570	2.1
S727392		13.7	63.0	<0.002	<0.01	0.33	13.3	1	1.3	277	1.79	<0.05	8.49	0.499	2.2
S727393		13.4	55.2	<0.002	<0.01	0.42	14.5	1	1.3	284	1.10	<0.05	8.27	0.545	2.0
S727394		12.9	65.5	<0.002	0.01	0.53	16.3	2	1.6	261	1.23	0.06	9.37	0.581	2.2
S727395		12.1	61.3	<0.002	0.01	0.57	17.7	2	1.6	281	1.27	0.10	8.42	0.637	2.2
S727396		13.7	67.1	<0.002	0.01	0.77	18.6	1	1.6	263	1.26	0.07	9.43	0.608	2.3
S727397		9.5	31.8	<0.002	<0.01	0.55	23.6	1	1.4	383	0.86	<0.05	5.77	0.497	1.4
S727398		12.7	56.6	<0.002	<0.01	0.40	17.0	1	1.6	317	1.73	0.05	10.15	0.669	2.4
S727399		12.1	66.4	<0.002	0.01	0.56	18.7	2	1.6	253	1.18	0.06	9.89	0.578	2.1
S727400		6.4	44.9	<0.002	0.02	0.10	5.8	1	0.5	372	0.32	<0.05	1.36	0.146	0.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S727070		120	0.8	21.2	78	172.0
S727071		123	0.7	18.8	94	174.0
S727072		137	0.7	20.7	87	174.0
S727073		139	0.7	18.6	116	154.0
S727074		139	1.1	21.3	92	174.5
S727075		141	0.9	21.6	116	166.5
S727076		126	0.7	22.6	95	209
S727077		129	0.9	20.8	86	175.0
S727078		132	1.3	21.4	84	178.0
S727079		133	0.6	21.3	102	175.0
S727080		227	1.6	9.7	43	150.5
S727081		127	0.7	19.0	96	158.5
S727082		130	0.7	19.3	82	202
S727083		117	0.6	20.1	85	186.0
S727084		126	0.7	21.2	87	196.5
S727085		132	0.7	21.2	94	200
S727086		122	0.6	21.6	82	190.5
S727087		159	0.8	22.1	136	163.0
S727088		118	0.6	20.8	84	209
S727089		138	0.7	17.5	98	170.0
S727090		134	0.7	19.6	86	152.0
S727091		133	0.7	20.9	135	191.5
S727092		146	0.7	18.4	99	174.5
S727384		104	0.5	18.9	71	179.0
S727385		130	0.7	19.0	93	170.5
S727386		123	0.8	18.8	81	161.0
S727387		120	0.7	18.1	70	178.0
S727388		139	0.8	20.1	115	177.0
S727389		116	0.6	19.7	77	210
S727390		108	0.5	16.9	67	175.5
S727391		115	0.6	19.0	81	173.5
S727392		100	0.4	16.8	73	174.5
S727393		105	0.5	17.8	70	183.5
S727394		131	0.6	18.8	103	167.0
S727395		129	0.7	20.0	89	184.0
S727396		141	1.0	20.6	106	161.0
S727397		154	1.3	19.1	89	111.5
S727398		122	0.6	21.2	77	192.0
S727399		132	0.9	21.6	111	161.5
S727400		38	0.2	6.3	20	44.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727401		1.33	<0.001	0.03	6.51	3.3	490	1.75	0.07	1.85	0.08	64.5	15.1	94	1.37	17.7
S727402		1.09	0.002	0.03	6.81	5.1	500	1.36	0.08	2.16	0.13	86.0	20.8	120	1.41	43.7
S727403		0.94	0.004	0.06	7.68	12.5	520	1.38	0.10	2.59	0.15	83.3	30.0	138	1.53	68.1
S727404		0.89	<0.001	0.04	7.35	3.4	540	1.47	0.07	2.34	0.14	95.2	21.0	116	1.62	32.9
S727405		0.85	0.009	0.04	7.24	6.0	520	1.37	0.08	2.23	0.09	87.2	20.2	114	1.47	44.5
S727406		0.79	0.016	0.05	7.22	20.2	520	1.95	0.29	2.39	0.09	90.1	26.5	103	1.46	74.1
S727407		0.88	0.001	0.07	7.98	3.6	620	1.65	0.09	1.79	0.18	89.5	24.7	130	2.59	42.7
S727408		0.87	0.001	0.02	7.11	3.1	530	1.62	0.07	2.47	0.13	123.0	18.6	85	1.37	25.3
S727409		1.04	0.022	0.12	7.68	42.4	570	1.56	0.36	2.30	0.21	90.9	34.6	142	2.37	164.5
S727410		1.12	<0.001	0.04	7.01	5.7	510	1.49	0.07	2.44	0.12	105.0	18.5	99	1.46	43.6
S727411		0.81	0.036	0.05	7.20	28.3	510	1.53	0.32	2.71	0.13	93.5	26.6	113	1.20	90.2
S727412		1.03	0.006	0.04	7.33	11.0	520	1.60	0.08	2.22	0.10	92.2	23.2	115	1.73	65.4
S727413		0.91	0.001	0.03	7.24	7.5	520	1.50	0.08	2.43	0.11	85.3	18.8	105	1.43	51.5
S727414		0.98	0.007	0.06	7.86	32.2	540	1.51	0.23	2.45	0.13	96.6	32.3	125	1.85	115.0
S727415		0.88	0.010	0.05	7.19	65.7	510	1.44	0.10	2.42	0.11	90.6	30.6	140	1.54	65.4
S727416		0.95	0.008	0.06	7.73	15.4	560	1.59	0.11	2.28	0.18	95.0	36.9	131	1.85	105.5
S727417		1.06	0.002	0.04	7.65	6.3	570	1.76	0.09	2.27	0.11	102.0	23.2	115	2.00	56.9
S727418		1.00	0.005	0.05	7.59	11.1	560	1.53	0.12	2.10	0.12	91.6	25.5	117	2.01	68.6
S727419		0.99	0.017	0.10	7.73	12.9	560	1.49	0.13	2.26	0.22	83.3	29.9	130	2.04	102.5
S727420		0.07	0.001	0.04	9.60	9.8	160	0.92	0.31	0.32	0.04	54.0	8.1	117	6.78	31.1
S727421		1.00	0.002	0.06	7.43	5.6	530	1.61	0.09	2.36	0.15	96.5	24.3	109	1.78	52.6
S727422		1.03	0.041	0.07	7.25	10.4	510	1.56	0.11	2.10	0.13	83.1	26.1	134	1.89	71.8
S727423		1.00	0.007	0.08	7.61	16.3	560	1.65	0.11	2.35	0.20	101.5	30.2	128	1.90	83.4
S727424		0.89	0.005	0.12	7.80	16.7	590	1.68	0.12	1.97	0.50	91.9	34.5	135	2.67	131.0
S727425		0.94	0.003	0.05	7.47	8.1	550	2.91	0.08	2.09	0.11	90.1	21.0	119	1.85	65.4
S727426		0.86	0.001	0.06	7.22	5.6	520	1.60	0.08	2.25	0.20	100.5	19.4	106	2.11	48.4
S727427		0.92	0.006	0.04	7.15	13.8	500	1.62	0.11	2.24	0.10	99.2	21.3	116	1.67	69.5
S727428		0.96	0.011	0.06	7.01	99.6	490	1.46	0.14	2.36	0.18	87.7	30.1	144	1.51	86.0
S727429		0.91	0.036	0.07	7.01	15.1	490	1.36	0.14	2.29	0.09	72.9	34.0	214	1.72	212
S727430		0.82	0.013	0.08	7.01	14.3	510	1.41	0.15	2.13	0.19	86.5	31.5	116	1.67	118.5
S727431		0.91	0.008	0.07	7.34	10.5	550	1.47	0.10	2.09	0.23	88.3	28.3	125	2.07	67.7
S727432		0.71	0.007	0.05	7.39	20.8	510	1.49	0.14	2.64	0.10	83.8	27.6	117	1.25	73.6
S727433		0.75	0.006	0.04	7.14	10.4	500	1.47	0.10	2.25	0.11	84.0	28.3	117	1.43	82.9
S727434		0.77	0.002	0.04	7.17	5.4	520	1.29	0.10	2.23	0.13	102.5	17.1	121	1.50	43.6
S727435		0.80	0.002	0.04	7.21	5.3	530	1.33	0.10	2.29	0.08	86.3	16.5	107	1.52	41.0
S727436		0.84	0.009	0.07	7.17	12.5	510	1.37	0.18	2.42	0.15	87.6	22.1	136	1.48	86.9
S727437		0.82	0.017	0.11	7.20	15.4	510	1.20	0.18	2.41	0.18	84.6	22.7	180	1.84	89.2
S727438		0.80	0.005	0.03	6.93	10.2	490	1.25	0.19	2.17	0.12	106.0	19.0	112	1.47	85.0
S727439		0.73	0.006	0.03	6.99	12.1	510	1.30	0.12	2.36	0.09	93.5	17.5	109	1.37	63.6
S727440		0.19	0.001	0.03	6.32	0.5	400	0.95	0.07	1.76	0.03	21.1	4.8	42	0.80	8.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727401		3.54	17.10	0.13	4.2	0.052	1.55	30.9	16.6	1.07	409	0.66	2.20	19.0	34.0	840
S727402		4.31	19.55	0.16	4.6	0.057	1.51	42.5	18.8	1.44	715	0.66	2.17	39.3	57.2	1150
S727403		5.36	21.5	0.16	4.2	0.067	1.58	38.3	19.5	1.81	896	1.25	2.29	25.4	68.2	1190
S727404		4.59	20.8	0.17	4.5	0.060	1.62	44.6	20.9	1.51	794	0.70	2.31	32.9	51.3	1360
S727405		4.43	20.4	0.15	4.5	0.061	1.60	41.0	19.9	1.47	691	0.65	2.27	25.3	49.0	1080
S727406		4.79	20.6	0.17	4.3	0.066	1.53	41.4	19.5	1.54	824	0.73	2.26	27.4	52.8	1220
S727407		4.97	22.6	0.17	4.0	0.059	1.95	42.5	29.4	1.69	576	0.72	2.13	19.6	63.7	710
S727408		4.36	20.5	0.19	5.1	0.062	1.44	58.1	18.9	1.30	767	0.56	2.48	42.9	39.4	1710
S727409		5.59	22.1	0.18	4.5	0.068	1.79	44.3	27.3	1.98	830	1.26	2.12	25.1	87.5	1260
S727410		4.22	20.2	0.18	4.8	0.063	1.49	49.4	19.5	1.34	681	0.69	2.37	37.2	39.9	1550
S727411		4.70	19.75	0.17	5.0	0.066	1.50	42.5	17.4	1.53	780	0.61	2.42	48.0	49.6	1510
S727412		4.71	21.1	0.17	4.5	0.062	1.58	41.5	22.0	1.51	824	0.94	2.23	30.4	47.6	1310
S727413		4.42	20.3	0.17	5.2	0.059	1.55	41.0	19.5	1.37	703	0.67	2.36	38.4	38.9	1320
S727414		5.60	22.6	0.19	4.5	0.069	1.59	42.8	24.3	1.88	902	0.76	2.22	26.8	64.8	1160
S727415		4.73	20.9	0.18	5.0	0.063	1.51	43.0	22.1	1.66	767	0.69	2.26	34.5	87.1	1150
S727416		5.11	22.2	0.18	4.5	0.068	1.67	44.0	23.5	1.74	701	2.53	2.29	25.9	125.0	1210
S727417		5.02	22.1	0.19	4.9	0.064	1.70	50.6	25.4	1.62	798	1.10	2.30	45.4	56.5	1350
S727418		4.99	21.5	0.17	4.3	0.065	1.71	42.6	25.0	1.58	628	1.26	2.18	23.5	60.6	1010
S727419		5.10	21.7	0.16	4.4	0.065	1.80	40.2	24.6	1.69	734	1.11	2.24	21.9	81.4	1090
S727420		6.69	27.7	0.11	5.0	0.096	0.49	24.2	38.9	0.32	484	2.63	0.14	24.8	46.0	530
S727421		4.98	21.0	0.16	4.8	0.064	1.59	44.5	23.6	1.57	887	0.91	2.25	29.5	56.3	1240
S727422		5.27	20.5	0.16	4.5	0.061	1.66	41.6	22.2	1.55	835	1.41	2.09	27.5	63.9	1030
S727423		5.57	22.1	0.19	4.3	0.070	1.58	49.7	24.5	1.85	920	0.81	2.14	36.0	71.5	1290
S727424		5.80	22.8	0.17	4.0	0.067	1.90	44.3	30.8	1.86	877	1.46	2.03	21.0	105.0	1010
S727425		4.53	21.2	0.16	4.9	0.060	1.70	42.8	22.8	1.44	647	0.98	2.26	27.5	60.8	940
S727426		4.35	21.4	0.20	5.8	0.061	1.59	51.0	25.5	1.44	590	0.99	2.26	29.0	52.1	1210
S727427		4.55	19.35	0.17	5.5	0.066	1.53	46.0	22.0	1.40	834	0.75	2.20	31.9	47.1	1170
S727428		4.84	20.2	0.16	4.9	0.062	1.50	42.8	20.4	1.54	829	0.81	2.16	26.6	69.5	1290
S727429		6.08	19.50	0.15	4.7	0.074	1.54	32.7	20.2	1.85	663	1.00	2.06	22.4	152.0	910
S727430		4.66	19.40	0.17	4.2	0.064	1.58	40.7	21.1	1.45	720	1.04	2.13	22.2	82.1	1070
S727431		4.92	20.3	0.17	4.1	0.062	1.79	41.8	24.3	1.65	810	0.95	2.11	19.6	84.7	1040
S727432		5.09	19.90	0.16	4.6	0.072	1.46	40.2	19.0	1.56	799	0.69	2.39	40.7	64.0	1370
S727433		4.96	19.95	0.16	4.4	0.061	1.48	38.3	19.6	1.48	747	0.76	2.26	36.4	54.4	1190
S727434		4.71	18.00	0.14	4.9	0.056	1.58	50.6	17.4	1.46	745	1.28	2.31	30.0	48.0	1250
S727435		4.61	17.60	0.12	4.2	0.060	1.58	42.1	18.0	1.50	727	0.92	2.31	23.7	46.4	1080
S727436		5.14	17.45	0.12	4.2	0.070	1.52	42.9	17.0	1.68	811	0.91	2.21	27.7	71.1	1340
S727437		5.26	17.80	0.10	3.9	0.066	1.58	40.4	19.2	1.96	802	1.04	2.07	23.3	97.4	1170
S727438		4.71	17.85	0.10	5.0	0.066	1.38	47.8	16.3	1.43	769	0.85	2.36	32.9	55.1	1280
S727439		4.64	17.45	0.13	4.4	0.062	1.49	43.6	16.2	1.45	716	0.65	2.30	51.7	52.3	1320
S727440		1.70	12.95	0.05	1.2	0.017	1.26	8.8	6.8	0.53	287	0.18	2.80	2.5	23.7	210



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727401		12.5	59.3	<0.002	0.01	0.29	14.3	1	1.3	268	1.02	<0.05	7.93	0.514	1.9
S727402		12.5	61.1	<0.002	<0.01	0.38	17.3	1	1.6	292	1.51	<0.05	9.34	0.586	2.4
S727403		12.6	61.8	<0.002	0.01	0.62	20.3	2	1.6	311	1.36	0.09	8.47	0.613	2.2
S727404		13.3	65.5	<0.002	0.01	0.35	17.9	1	1.7	312	1.49	<0.05	9.51	0.626	2.3
S727405		12.2	61.0	<0.002	<0.01	0.38	17.4	1	1.6	300	1.40	<0.05	8.51	0.583	2.3
S727406		12.0	60.4	<0.002	0.01	0.45	18.1	1	1.6	309	1.31	0.05	8.61	0.612	1.8
S727407		15.8	86.5	<0.002	0.01	0.41	17.9	1	1.6	257	1.07	<0.05	12.40	0.518	3.0
S727408		14.0	58.2	<0.002	0.01	0.27	17.5	1	1.7	347	1.73	<0.05	11.40	0.656	2.1
S727409		14.8	82.1	<0.002	0.01	0.54	18.4	2	1.6	288	1.28	0.17	11.10	0.565	2.4
S727410		12.7	62.6	<0.002	0.01	0.31	17.6	1	1.7	333	1.56	<0.05	10.25	0.646	2.1
S727411		12.1	55.6	<0.002	<0.01	0.49	18.6	2	1.7	344	2.67	0.08	9.30	0.678	3.6
S727412		13.4	64.7	<0.002	0.01	0.37	18.0	2	1.7	301	1.46	<0.05	9.95	0.644	2.4
S727413		13.0	62.1	<0.002	<0.01	0.33	18.0	1	1.7	328	1.86	<0.05	9.70	0.640	2.7
S727414		12.7	67.2	<0.002	0.01	0.50	20.0	2	1.7	305	1.27	0.17	9.45	0.630	2.1
S727415		12.4	63.4	<0.002	0.01	0.40	18.6	1	1.6	307	1.62	0.05	10.15	0.601	3.1
S727416		13.5	71.7	<0.002	0.01	0.48	19.1	2	1.7	303	1.26	0.06	10.55	0.615	2.4
S727417		14.6	76.0	<0.002	0.01	0.44	18.0	1	1.8	309	1.74	<0.05	19.95	0.628	3.0
S727418		14.9	75.2	<0.002	0.01	0.46	17.8	2	1.6	283	1.13	0.07	10.70	0.564	2.4
S727419		14.3	75.4	<0.002	0.01	0.60	19.0	2	1.6	287	1.15	0.08	10.85	0.569	2.4
S727420		24.9	63.9	<0.002	0.05	0.72	15.6	4	4.2	51.6	1.78	0.06	16.90	1.035	2.9
S727421		13.8	69.2	<0.002	0.01	0.42	18.7	2	1.7	308	1.31	0.05	10.15	0.613	2.3
S727422		12.9	71.7	<0.002	0.01	0.53	18.5	1	1.5	266	1.17	0.06	9.66	0.564	2.1
S727423		13.8	65.3	<0.002	0.01	0.56	19.2	1	1.7	297	1.51	0.09	12.00	0.614	2.2
S727424		15.5	88.6	<0.002	0.02	0.68	18.8	2	1.7	250	1.09	0.10	11.55	0.514	2.7
S727425		15.8	69.3	<0.002	0.01	0.39	17.9	2	1.6	292	1.25	<0.05	12.10	0.588	2.6
S727426		15.5	83.2	<0.002	0.01	0.46	17.6	2	1.7	311	1.39	<0.05	11.95	0.629	2.5
S727427		15.7	61.5	<0.002	0.01	0.39	17.5	1	1.7	311	1.44	0.06	10.80	0.633	2.5
S727428		22.7	62.9	<0.002	<0.01	0.56	18.7	1	1.6	299	1.36	0.07	9.04	0.641	2.3
S727429		12.2	63.3	<0.002	0.01	0.45	17.9	2	1.5	267	1.15	0.16	8.96	0.568	2.2
S727430		13.0	65.9	<0.002	0.01	0.46	17.2	2	1.5	279	1.28	0.14	9.68	0.556	2.3
S727431		13.9	73.8	<0.002	<0.01	0.47	17.5	2	1.5	268	1.08	0.06	10.00	0.541	2.0
S727432		12.0	55.9	<0.002	0.01	0.57	18.6	2	1.8	336	1.50	0.13	7.53	0.655	2.0
S727433		13.1	57.1	<0.002	0.01	0.47	18.3	2	1.6	304	1.59	0.09	10.20	0.605	2.3
S727434		13.9	61.3	0.002	0.01	0.48	14.4	1	1.8	308	1.59	0.06	8.55	0.614	2.3
S727435		12.4	61.2	<0.002	0.01	0.44	14.2	1	1.7	311	1.20	0.07	19.10	0.591	1.8
S727436		11.8	55.7	0.002	0.01	0.69	15.0	1	1.8	309	1.30	0.15	7.88	0.628	1.7
S727437		12.1	66.6	0.002	0.01	0.86	15.5	1	1.8	280	1.31	0.13	8.31	0.630	2.0
S727438		11.8	52.8	<0.002	0.01	0.44	13.3	1	2.1	290	1.64	0.14	8.67	0.600	2.0
S727439		12.0	55.1	<0.002	0.01	0.46	14.2	1	1.8	317	1.64	0.08	8.60	0.637	1.9
S727440		6.4	44.7	<0.002	<0.01	0.12	5.1	<1	0.6	379	0.46	<0.05	1.43	0.152	0.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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S727401		99	0.4	15.7	62	157.5
S727402		117	0.6	19.9	76	171.5
S727403		143	0.9	20.5	95	153.0
S727404		125	0.9	20.4	84	167.0
S727405		120	0.6	19.6	77	166.0
S727406		124	0.8	20.9	82	162.0
S727407		128	0.7	18.4	103	152.0
S727408		116	0.6	22.7	77	187.5
S727409		133	0.9	20.9	114	169.5
S727410		115	0.6	20.3	79	181.0
S727411		127	0.9	21.9	76	199.5
S727412		127	0.6	20.7	86	165.0
S727413		122	0.7	20.7	80	196.5
S727414		142	0.9	21.7	98	168.5
S727415		125	0.6	20.6	82	189.0
S727416		133	0.8	21.6	97	169.5
S727417		127	0.7	21.3	96	185.5
S727418		126	0.7	20.4	92	161.5
S727419		129	0.8	21.1	110	165.0
S727420		160	2.4	15.0	46	185.0
S727421		127	0.7	21.5	100	179.5
S727422		128	0.8	20.6	93	168.5
S727423		136	0.8	23.5	126	164.0
S727424		134	0.7	21.5	204	151.5
S727425		123	0.6	20.7	91	185.5
S727426		118	0.6	22.6	94	220
S727427		123	0.6	21.1	85	203
S727428		127	0.7	22.2	90	187.0
S727429		128	0.6	17.8	79	182.0
S727430		118	0.6	19.4	82	171.5
S727431		128	0.7	19.0	96	150.0
S727432		131	1.0	21.2	79	177.0
S727433		125	0.7	20.5	76	168.0
S727434		123	0.6	22.0	84	190.5
S727435		121	0.6	19.5	87	167.5
S727436		132	0.7	21.0	96	168.5
S727437		139	0.7	20.5	100	156.5
S727438		116	0.5	24.4	89	192.5
S727439		120	0.6	20.4	76	178.0
S727440		39	0.2	5.8	21	43.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727441		0.76	0.001	0.04	6.95	5.5	510	1.26	0.10	2.22	0.09	83.2	14.4	115	1.47	28.3
S727442		0.79	0.005	0.06	7.29	8.9	510	1.31	0.13	2.45	0.10	98.3	19.4	107	1.50	80.0
S727443		0.78	0.002	0.01	7.36	15.8	510	1.36	0.14	2.20	0.09	89.0	18.8	104	1.74	90.9
S727444		0.93	0.006	0.05	6.33	15.9	250	0.79	0.07	2.13	0.09	40.0	58.8	878	1.60	71.0
S727445		0.92	0.002	0.09	7.13	6.5	540	1.58	0.11	1.88	0.18	91.9	21.0	229	1.78	47.9
S727446		0.93	0.001	0.40	6.65	2.2	530	1.53	0.10	1.97	0.18	85.1	15.3	131	1.37	32.5
S727447		0.93	<0.001	0.04	7.20	4.1	570	1.69	0.10	2.18	0.15	81.3	14.8	111	1.47	25.6
S727448		0.99	0.001	0.10	7.26	8.3	530	1.67	0.16	1.84	0.22	87.8	25.8	226	1.98	57.4
S727449		0.83	0.011	0.17	7.32	107.5	350	1.09	0.14	1.34	0.40	57.7	46.9	415	1.36	129.0
S727450		1.28	0.005	0.21	6.45	92.4	200	0.76	0.10	2.11	0.31	37.7	89.0	1100	1.00	131.0
S727451		0.96	0.003	0.12	6.91	36.0	490	1.73	0.12	2.03	0.23	100.5	18.3	104	1.82	43.8
S727452		1.15	0.003	0.05	7.14	59.0	470	1.41	0.13	1.77	0.18	81.0	22.1	93	1.35	49.6
S727453		0.91	0.006	0.14	10.05	14.1	490	1.16	0.07	3.15	0.10	23.0	46.4	75	1.88	133.5
S727454		0.87	0.006	0.15	8.30	8.4	630	1.57	0.11	1.61	0.19	69.9	38.8	119	1.89	234
S727455		0.98	0.001	0.05	7.48	6.1	460	1.29	0.09	2.41	0.15	77.9	20.1	99	0.97	42.4
S727456		0.98	0.001	0.07	7.79	8.3	570	1.71	0.13	1.66	0.17	84.0	21.4	103	1.96	46.8
S727457		0.96	0.001	0.03	7.29	5.8	490	1.54	0.10	2.27	0.15	86.0	18.9	93	1.00	33.7
S727458		1.12	0.005	0.03	7.20	8.4	430	1.15	0.09	2.49	0.15	75.3	19.0	98	0.80	34.3
S727459		1.07	0.001	0.04	8.26	7.4	550	1.55	0.12	1.87	0.13	87.8	25.6	89	1.70	50.5
S727460		0.92	0.008	0.05	8.14	7.0	550	1.58	0.10	1.80	0.14	93.0	25.4	88	1.67	50.6
S727461		0.92	0.002	0.08	7.38	6.3	500	1.52	0.11	2.08	0.12	93.2	21.4	114	1.60	54.3
S727462		1.00	0.008	0.12	7.01	20.0	400	1.25	0.12	1.97	0.51	68.7	35.8	229	1.12	99.8
S727463		1.29	0.023	0.06	7.46	8.8	470	1.18	0.09	2.03	0.14	68.6	22.1	116	0.92	49.3
S727464		1.29	0.001	0.02	5.54	3.6	150	0.51	0.05	3.94	0.08	27.0	75.1	1060	1.71	104.5
S727465		0.98	0.002	0.05	7.39	5.0	550	1.64	0.10	1.76	0.09	79.7	20.9	152	2.01	61.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143596

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727441		4.51	17.20	0.12	4.4	0.057	1.44	38.3	16.9	1.38	680	0.73	2.26	32.2	39.5	1380
S727442		5.29	18.05	0.08	4.0	0.066	1.49	46.5	17.5	1.60	808	0.84	2.24	43.0	44.3	1500
S727443		5.25	17.75	0.11	3.8	0.060	1.49	39.2	18.4	1.62	820	0.87	2.21	31.9	41.5	1220
S727444		7.36	15.95	<0.05	2.4	0.056	0.73	16.1	22.1	7.06	1140	0.56	1.18	10.2	552	660
S727445		4.70	18.80	0.07	4.2	0.063	1.46	43.6	26.0	2.23	529	1.25	1.95	24.0	118.0	1080
S727446		3.67	17.85	0.07	3.8	0.054	1.42	40.3	22.5	1.48	464	0.94	2.05	27.0	60.8	1140
S727447		4.00	18.40	0.08	4.5	0.056	1.60	38.5	22.8	1.42	495	0.95	2.31	28.4	44.9	1180
S727448		5.56	19.30	0.07	4.3	0.067	1.61	41.8	26.3	2.29	763	1.08	1.91	27.0	136.5	1170
S727449		7.16	18.05	0.08	3.6	0.074	1.29	28.1	22.0	2.88	1230	1.06	1.52	20.7	249	940
S727450		8.69	16.40	0.06	2.6	0.057	0.72	16.5	18.7	8.16	1620	0.69	0.79	9.2	876	810
S727451		5.06	18.25	0.11	4.7	0.063	1.45	48.4	23.4	1.37	861	0.78	2.03	49.3	44.6	1220
S727452		5.31	17.95	0.06	4.1	0.058	1.35	29.1	23.0	1.46	937	0.77	2.02	26.9	44.7	740
S727453		6.86	23.8	0.05	1.9	0.060	1.66	8.0	25.4	1.05	1840	1.96	1.59	5.1	50.1	710
S727454		6.38	20.5	0.09	3.3	0.071	1.69	33.4	29.4	1.92	1290	0.93	1.90	20.6	64.7	940
S727455		5.03	18.00	0.11	4.2	0.053	1.38	33.8	17.2	1.61	945	0.50	2.13	22.3	45.3	1130
S727456		5.28	19.15	0.11	4.4	0.053	1.67	38.0	26.0	1.55	953	0.77	1.97	21.5	49.6	1020
S727457		4.68	18.40	0.11	4.7	0.061	1.44	37.2	18.0	1.36	908	0.51	2.29	26.7	38.6	1100
S727458		4.68	17.25	0.10	4.0	0.062	1.29	33.7	15.5	1.54	815	0.46	2.21	22.5	43.8	1060
S727459		6.18	21.4	0.11	3.9	0.065	1.65	37.2	28.1	1.75	1200	0.75	2.03	28.2	46.0	1080
S727460		6.11	21.3	0.10	3.8	0.068	1.62	40.4	28.0	1.72	1190	0.72	1.99	24.4	44.7	1020
S727461		5.16	18.90	0.08	4.4	0.063	1.41	39.7	23.0	1.64	924	0.66	2.10	31.5	50.1	950
S727462		6.46	17.10	0.08	3.6	0.072	1.11	32.3	19.8	2.38	1290	0.82	1.77	21.0	117.5	1100
S727463		5.46	18.05	0.10	4.0	0.058	1.34	31.7	18.3	1.80	873	0.64	2.05	21.8	51.7	980
S727464		7.97	14.05	<0.05	2.1	0.052	0.44	11.5	23.2	10.25	1320	0.33	0.71	8.7	872	660
S727465		4.75	18.75	0.10	4.1	0.050	1.59	40.7	24.8	1.73	791	0.72	2.05	22.4	72.4	710



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
S727441		12.2	51.9	<0.002	0.01	0.35	13.6	1	1.8	305	1.36	<0.05	7.62	0.625	0.31	1.8
S727442		12.2	57.5	<0.002	0.01	0.45	15.2	2	1.8	318	1.62	<0.05	8.42	0.668	0.33	2.4
S727443		12.0	60.9	<0.002	0.02	0.39	14.0	1	1.8	300	1.67	0.05	7.67	0.628	0.35	2.0
S727444		6.0	25.0	<0.002	0.03	1.00	24.8	1	1.1	125.0	0.64	0.06	3.36	0.647	0.16	0.9
S727445		12.6	51.5	<0.002	0.13	0.69	17.0	2	1.8	249	1.19	<0.05	9.55	0.587	0.34	2.4
S727446		19.8	48.3	0.002	0.17	0.66	15.1	2	1.7	268	1.50	<0.05	8.15	0.600	0.30	2.5
S727447		13.1	53.9	<0.002	0.04	0.49	15.0	1	1.8	315	1.30	<0.05	8.10	0.616	0.35	2.6
S727448		17.0	67.4	<0.002	0.01	0.78	18.7	1	1.8	257	1.32	<0.05	9.01	0.614	0.40	1.7
S727449		14.6	42.2	0.002	0.02	3.06	29.0	2	1.4	168.0	0.97	0.16	4.72	0.620	0.26	1.5
S727450		8.5	24.7	<0.002	0.01	2.67	32.2	1	1.0	155.5	0.49	0.08	2.80	0.451	0.14	0.6
S727451		13.6	56.4	<0.002	0.03	0.92	16.9	2	1.9	273	1.56	0.07	9.89	0.632	0.34	1.8
S727452		12.4	46.9	<0.002	0.02	1.44	17.6	2	1.6	258	1.20	0.12	7.13	0.623	0.29	1.6
S727453		5.5	41.6	<0.002	0.06	2.82	27.7	1	0.9	202	0.31	0.08	1.77	0.464	0.25	0.6
S727454		12.6	61.3	<0.002	0.03	1.55	24.8	2	1.6	221	1.08	0.14	6.39	0.534	0.32	1.4
S727455		9.5	42.9	0.002	<0.01	0.94	19.9	1	1.7	287	1.13	<0.05	6.43	0.710	0.20	1.3
S727456		13.4	64.0	<0.002	0.01	0.79	16.7	1	1.7	267	1.12	<0.05	8.46	0.567	0.36	1.6
S727457		11.5	47.1	<0.002	<0.01	0.94	18.4	1	1.7	317	1.32	<0.05	7.36	0.657	0.25	1.6
S727458		9.6	39.6	<0.002	<0.01	1.07	19.8	1	1.7	293	1.06	<0.05	5.69	0.716	0.19	1.4
S727459		11.9	60.9	<0.002	0.01	0.82	21.9	2	1.8	268	1.34	0.06	7.08	0.584	0.34	1.8
S727460		11.6	61.1	<0.002	0.02	0.79	21.4	1	1.7	259	1.15	0.05	7.45	0.563	0.33	1.5
S727461		12.6	53.5	<0.002	0.02	0.63	18.7	1	1.8	275	1.26	0.06	8.54	0.640	0.31	1.7
S727462		10.4	38.0	<0.002	0.01	1.16	27.1	2	1.5	212	1.07	0.11	5.01	0.659	0.22	1.4
S727463		10.0	41.6	<0.002	<0.01	0.95	21.5	2	1.6	263	1.04	0.05	5.51	0.657	0.20	1.3
S727464		3.2	14.9	<0.002	<0.01	0.53	26.4	1	1.0	84.3	0.51	<0.05	2.13	0.640	0.13	0.6
S727465		12.7	59.3	<0.002	0.01	0.41	16.1	1	1.6	270	1.12	0.05	7.90	0.515	0.34	2.4



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CERTIFICATE OF ANALYSIS	VO16143596
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727441 S727442 S727443 S727444 S727445		121	0.5	18.3	80	175.0
		134	0.7	21.9	88	164.5
		131	0.6	18.6	93	154.0
		189	0.7	17.3	100	95.2
		135	0.5	20.8	97	169.0
S727446 S727447 S727448 S727449 S727450		113	0.5	18.7	80	157.5
		119	0.5	18.7	83	185.0
		143	0.6	22.0	107	177.0
		184	1.5	23.2	155	144.5
		209	1.4	15.8	131	112.5
S727451 S727452 S727453 S727454 S727455		126	0.8	23.7	99	189.5
		138	0.7	18.6	90	166.5
		281	2.1	10.8	108	75.1
		175	0.8	22.9	105	137.0
		150	0.9	23.4	81	168.0
S727456 S727457 S727458 S727459 S727460		136	0.7	19.1	105	179.0
		135	0.7	22.6	73	187.5
		145	0.8	23.0	72	161.5
		160	0.6	22.8	98	154.5
		157	0.6	22.7	98	154.0
S727461 S727462 S727463 S727464 S727465		144	0.6	22.1	89	177.5
		174	0.8	25.1	141	148.5
		161	0.7	21.8	97	162.0
		197	0.3	17.3	88	80.9
		121	0.5	19.1	93	167.0

***** See Appendix Page for comments regarding this certificate *****



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143596

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada
DRY-21 LOG-22 LOG-23 PUL-31
SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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CERTIFICATE VO16143599

Project: QK-2016-TS-005

This report is for 153 Soil samples submitted to our lab in Val d'Or, QC, Canada on 29-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
DRY-21	High Temperature Drying
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727951		0.90	0.002	0.07	7.33	3.6	590	1.63	0.11	1.88	0.19	90.2	16.9	84	2.50	32.9
S727952		0.84	0.003	0.06	7.44	5.5	530	1.49	0.11	2.42	0.15	71.2	33.9	306	2.10	50.9
S727953		0.87	0.003	0.04	7.47	5.1	540	1.55	0.11	2.03	0.16	72.8	31.7	257	2.15	46.5
S727954		0.96	0.002	0.04	7.26	3.2	640	1.48	0.11	2.17	0.15	85.8	19.3	160	1.91	34.3
S727955		0.72	0.003	0.02	7.00	3.9	520	1.52	0.09	2.21	0.11	99.7	14.9	95	1.68	22.8
S727956		1.06	0.017	0.02	7.21	6.4	480	1.26	0.09	1.97	0.11	62.4	23.9	183	1.54	50.3
S727957		0.88	0.012	0.02	6.80	6.2	430	1.13	0.08	2.00	0.12	54.3	23.1	177	1.29	41.7
S727958		0.84	0.006	0.03	7.16	5.9	470	1.36	0.08	1.67	0.10	67.4	19.4	147	1.43	35.5
S727959		0.87	0.021	0.04	7.55	6.2	520	1.49	0.09	1.71	0.15	71.2	21.1	150	1.54	41.0
S727960		0.95	0.013	0.05	7.23	6.1	500	1.46	0.09	1.73	0.12	70.3	19.6	144	1.40	36.8
S727961		1.05	0.022	0.04	6.56	6.6	390	1.09	0.11	2.29	0.21	62.2	31.4	233	1.08	75.1
S727962		0.98	0.019	0.05	7.02	6.2	450	1.30	0.09	2.32	0.20	70.1	32.1	219	1.39	64.5
S727963		1.23	0.007	0.06	7.43	6.5	470	1.19	0.10	2.31	0.20	71.1	36.6	230	1.89	101.0
S727964		1.07	0.002	0.07	7.50	6.4	560	1.54	0.10	1.87	0.21	84.3	24.9	166	1.93	45.9
S727965		0.85	0.102	0.04	7.08	4.2	520	1.38	0.08	1.96	0.16	84.3	20.4	147	1.50	33.1
S727966		0.94	0.011	0.06	7.13	5.2	540	1.46	0.09	1.96	0.17	78.6	21.1	159	1.83	37.9
S727967		1.16	0.055	0.01	7.04	5.5	480	1.23	0.07	2.01	0.17	70.8	20.5	166	1.25	34.0
S727968		1.21	0.006	0.03	6.72	4.3	480	1.24	0.07	2.09	0.11	69.1	20.5	189	1.35	36.8
S727969		1.13	0.024	0.02	6.98	4.4	470	1.31	0.07	1.93	0.15	72.9	21.2	179	1.32	31.7
S727970		0.81	0.005	0.03	6.61	4.8	440	1.14	0.07	1.98	0.14	65.3	16.8	137	1.00	26.0
S727971		0.84	0.014	0.01	7.05	5.2	470	1.18	0.08	1.74	0.11	71.8	18.8	178	1.39	29.4
S727972		0.96	0.010	0.06	7.16	5.2	480	1.22	0.07	1.79	0.12	63.1	19.2	143	1.35	31.8
S727973		0.98	0.010	0.02	7.31	6.8	500	1.33	0.10	1.76	0.12	76.6	21.8	167	1.59	36.5
S727974		1.28	0.012	0.01	7.53	7.0	510	1.37	0.09	1.68	0.13	69.8	20.8	176	1.65	35.9
S727975		1.09	0.010	0.04	7.10	5.1	470	1.33	0.08	1.98	0.15	75.6	18.8	159	1.20	31.3
S727976		0.96	0.007	0.06	7.61	5.7	520	1.29	0.08	1.77	0.13	69.1	19.1	143	1.44	29.7
S727977		0.99	0.010	0.02	7.29	5.8	490	1.32	0.08	1.83	0.13	76.2	19.1	163	1.40	32.9
S727978		0.97	0.005	0.04	7.71	8.8	540	1.55	0.11	1.61	0.18	76.9	23.1	164	2.01	44.5
S727979		0.96	0.059	0.04	6.79	131.5	540	1.32	0.10	2.73	0.15	72.0	42.2	499	2.26	75.3
S727980		0.07	0.002	0.04	9.54	11.0	160	0.97	0.36	0.32	0.04	54.8	7.9	116	6.69	32.0
S727981		1.11	0.003	0.03	5.27	5.4	330	1.09	0.05	2.93	0.08	57.4	47.5	953	2.13	37.8
S727982		0.94	0.003	0.03	5.30	5.4	370	0.97	0.07	3.09	0.08	49.1	59.8	925	2.77	54.0
S727983		1.01	0.004	0.02	5.92	8.1	400	1.24	0.06	2.87	0.10	72.0	33.5	532	1.54	27.9
S727984		1.11	0.011	0.04	5.93	17.8	370	0.98	0.09	3.74	0.12	49.2	52.4	909	1.58	91.2
S727985		1.08	0.002	0.08	7.24	8.7	560	1.76	0.11	1.96	0.27	109.5	29.7	185	2.17	54.4
S727986		1.07	0.004	0.05	7.34	9.8	510	1.41	0.15	2.27	0.22	80.1	31.7	269	1.77	60.9
S727987		1.11	0.018	0.07	6.78	22.9	460	1.46	0.11	2.60	0.24	73.9	39.9	624	2.07	63.7
S727988		0.71	0.002	<0.01	5.61	4.5	410	0.99	0.06	3.60	0.13	52.6	50.7	814	2.41	35.7
S727989		0.56	0.013	0.02	7.07	2.8	440	1.16	0.08	3.12	0.14	71.3	25.0	231	1.04	36.6
S727990		0.52	0.005	0.01	6.98	3.4	470	1.22	0.08	2.99	0.15	75.9	24.4	290	1.03	28.6



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727951		4.32	20.7	0.15	5.3	0.063	1.99	45.0	27.0	1.24	545	1.23	2.29	20.3	44.5	1030
S727952		5.69	19.35	0.11	3.8	0.060	1.66	35.0	26.8	2.98	971	1.04	1.95	15.6	169.0	950
S727953		5.37	19.85	0.13	4.0	0.061	1.73	35.8	28.3	2.51	871	0.66	1.90	15.8	125.5	850
S727954		4.01	18.75	0.16	5.5	0.042	1.91	41.8	21.6	1.49	691	0.60	2.32	14.2	84.3	990
S727955		4.10	19.20	0.16	6.7	0.058	1.62	48.6	22.4	1.09	638	0.67	2.42	22.6	35.7	1050
S727956		5.33	18.20	0.14	3.6	0.061	1.55	29.5	20.0	1.93	804	0.63	1.92	14.7	59.0	790
S727957		5.27	17.25	0.13	3.4	0.060	1.39	25.2	17.8	1.94	956	0.63	1.86	13.2	54.1	770
S727958		4.94	18.60	0.12	4.1	0.063	1.61	31.6	18.2	1.57	892	0.62	2.00	16.6	52.3	740
S727959		5.15	19.50	0.14	4.3	0.062	1.79	34.7	20.5	1.66	955	0.73	2.05	16.6	60.7	860
S727960		4.97	18.80	0.14	4.3	0.060	1.69	35.1	18.8	1.57	894	0.68	2.01	16.8	56.5	860
S727961		5.99	16.45	0.10	3.7	0.065	1.19	27.1	17.5	2.31	1080	0.69	1.79	16.6	68.4	870
S727962		5.79	18.35	0.13	3.8	0.063	1.44	30.9	19.3	2.31	1150	0.81	1.93	17.2	80.5	970
S727963		6.75	19.55	0.13	3.6	0.063	1.53	33.2	22.7	2.63	1260	0.88	1.75	15.7	80.6	1020
S727964		5.52	19.75	0.15	4.4	0.062	1.92	42.4	24.3	1.78	957	1.28	1.98	19.1	63.5	1040
S727965		4.97	18.35	0.16	4.7	0.056	1.77	39.6	20.7	1.58	841	0.83	2.07	19.7	52.9	980
S727966		5.14	19.10	0.15	4.9	0.062	1.78	40.2	23.1	1.64	752	1.12	1.98	19.3	59.8	1010
S727967		4.91	17.90	0.13	4.2	0.056	1.53	33.4	17.5	1.64	919	0.64	2.11	17.0	61.2	900
S727968		4.71	17.20	0.12	4.4	0.051	1.49	32.3	17.7	1.82	794	0.48	2.00	15.7	69.2	880
S727969		4.98	18.20	0.15	4.5	0.061	1.50	34.9	18.5	1.65	825	0.71	2.06	18.5	63.9	880
S727970		4.39	16.75	0.12	3.9	0.055	1.44	29.6	15.3	1.41	882	0.43	2.14	15.9	41.8	860
S727971		4.96	18.05	0.14	4.5	0.055	1.48	32.6	18.1	1.52	852	0.52	2.01	18.0	50.7	780
S727972		4.95	17.85	0.14	3.9	0.056	1.58	29.7	18.1	1.56	896	0.51	2.04	16.3	50.5	810
S727973		5.23	18.85	0.15	4.6	0.068	1.54	36.8	20.3	1.60	910	0.67	2.03	18.9	58.0	750
S727974		5.34	18.60	0.13	4.1	0.060	1.61	34.2	20.5	1.68	869	0.65	2.01	18.0	60.5	740
S727975		4.75	17.60	0.14	4.4	0.061	1.50	34.0	16.4	1.45	945	1.26	2.22	18.8	51.9	920
S727976		5.07	18.85	0.14	4.1	0.060	1.74	32.8	19.8	1.58	999	0.77	2.13	17.6	51.1	870
S727977		4.98	18.25	0.17	4.4	0.063	1.57	36.5	19.5	1.56	839	0.63	2.10	18.1	53.0	780
S727978		5.39	20.2	0.16	4.6	0.060	1.81	38.4	25.4	1.65	923	0.82	1.94	18.1	60.3	800
S727979		6.07	17.40	0.14	3.5	0.057	1.55	35.3	27.1	4.31	919	0.59	1.66	17.6	302	1190
S727980		6.73	26.4	0.10	4.8	0.091	0.50	26.1	38.8	0.33	491	2.53	0.14	25.7	46.5	530
S727981		5.64	12.95	0.13	3.1	0.042	0.95	28.6	19.7	7.56	910	0.53	1.52	21.2	563	1230
S727982		5.76	12.60	0.12	2.3	0.043	0.89	24.1	21.4	9.08	914	0.24	1.15	10.2	699	780
S727983		5.12	14.75	0.13	4.0	0.051	1.13	36.2	17.3	4.50	843	0.48	1.74	32.5	301	1330
S727984		6.55	13.70	0.12	2.3	0.048	1.02	22.1	17.6	6.77	1160	0.40	1.39	8.9	457	960
S727985		5.80	19.80	0.20	4.6	0.061	1.72	54.2	27.1	1.75	894	1.24	2.11	33.8	102.5	1290
S727986		6.00	18.65	0.13	4.0	0.060	1.45	39.8	24.6	2.26	1090	0.79	2.02	23.8	130.0	1170
S727987		6.76	17.25	0.14	4.0	0.058	1.27	35.5	24.8	4.35	973	1.00	1.75	25.6	264	1200
S727988		6.13	13.95	0.12	3.1	0.044	0.88	25.9	28.2	7.84	990	0.27	1.44	29.4	580	980
S727989		5.16	16.85	0.13	3.7	0.057	1.34	33.7	16.0	2.23	842	0.35	2.26	17.8	82.6	1030
S727990		4.93	17.00	0.14	4.5	0.058	1.38	35.9	16.3	2.16	854	0.35	2.32	48.5	88.4	1070



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727951		16.9	94.1	<0.002	<0.01	0.34	15.5	1	1.7	292	1.11	<0.05	11.15	0.536	2.9
S727952		12.0	67.5	<0.002	0.01	0.56	22.2	1	1.6	241	0.94	<0.05	7.94	0.588	1.6
S727953		12.8	74.2	<0.002	0.01	0.47	20.9	1	1.6	240	0.95	<0.05	8.11	0.560	1.8
S727954		14.7	68.2	<0.002	<0.01	0.30	14.4	1	1.4	343	0.86	<0.05	9.47	0.459	1.5
S727955		15.0	66.6	<0.002	0.01	0.29	15.9	1	1.6	342	1.28	<0.05	9.84	0.651	2.5
S727956		9.1	53.7	<0.002	<0.01	0.68	22.2	1	1.5	217	0.91	<0.05	5.64	0.562	1.5
S727957		8.3	47.8	0.002	<0.01	0.67	23.3	1	1.4	211	0.81	<0.05	4.87	0.564	1.3
S727958		8.7	54.1	<0.002	<0.01	0.57	19.8	1	1.6	204	0.98	<0.05	5.54	0.564	1.4
S727959		10.3	60.8	<0.002	<0.01	0.57	20.4	1	1.7	214	1.04	<0.05	6.18	0.582	1.7
S727960		9.7	57.1	<0.002	<0.01	0.55	19.8	1	1.6	213	1.08	<0.05	6.06	0.593	1.7
S727961		10.7	38.4	<0.002	0.01	0.63	27.1	1	1.4	213	0.99	0.10	4.47	0.655	1.3
S727962		9.7	49.7	<0.002	<0.01	0.65	26.5	1	1.5	220	1.04	<0.05	5.67	0.650	1.3
S727963		11.4	53.3	<0.002	0.01	0.76	27.7	2	1.5	206	0.96	<0.05	5.86	0.641	1.4
S727964		12.4	67.9	<0.002	0.01	0.53	20.9	1	1.6	211	1.13	<0.05	9.99	0.664	1.8
S727965		10.9	59.8	<0.002	<0.01	0.44	19.9	1	1.6	233	1.16	<0.05	8.23	0.657	1.6
S727966		12.2	66.8	<0.002	0.01	0.48	20.5	2	1.6	225	1.15	<0.05	8.37	0.651	1.9
S727967		9.4	51.6	<0.002	<0.01	0.57	20.6	1	1.6	238	1.05	<0.05	6.01	0.628	1.4
S727968		9.3	51.1	<0.002	<0.01	0.60	20.3	1	1.5	249	0.95	<0.05	10.70	0.567	1.4
S727969		9.5	54.0	<0.002	0.01	0.50	20.3	1	1.7	227	1.13	<0.05	6.31	0.644	1.6
S727970		8.2	45.8	<0.002	<0.01	0.58	18.9	1	1.5	232	1.06	<0.05	5.84	0.578	1.5
S727971		8.6	54.6	<0.002	0.01	0.61	19.4	1	1.6	217	1.14	<0.05	6.07	0.615	1.5
S727972		8.6	53.9	<0.002	<0.01	0.58	19.3	2	1.6	214	1.00	<0.05	5.68	0.572	1.4
S727973		10.2	59.2	<0.002	0.01	0.70	20.3	1	1.8	230	1.16	<0.05	6.91	0.643	1.8
S727974		10.5	60.7	<0.002	0.01	0.64	20.0	1	1.6	218	1.10	<0.05	6.91	0.618	1.7
S727975		12.8	49.8	0.002	<0.01	0.66	19.7	1	1.6	235	1.17	<0.05	5.57	0.641	1.6
S727976		10.1	57.5	<0.002	<0.01	0.65	19.5	1	1.7	217	1.11	<0.05	5.70	0.593	1.6
S727977		9.8	55.1	<0.002	0.01	0.65	20.4	1	1.6	234	1.13	<0.05	7.11	0.659	1.7
S727978		11.5	69.6	<0.002	0.01	0.71	20.8	1	1.7	214	1.11	<0.05	7.64	0.599	2.0
S727979		10.0	64.1	<0.002	0.01	0.55	22.7	1	1.4	279	0.89	<0.05	7.01	0.601	1.3
S727980		24.4	65.3	<0.002	0.05	0.76	15.0	4	4.1	51.8	1.74	<0.05	16.40	1.050	2.9
S727981		7.0	41.3	<0.002	<0.01	0.41	20.7	1	1.1	249	1.01	<0.05	5.78	0.492	1.4
S727982		6.3	47.2	<0.002	0.01	0.53	21.5	1	0.9	228	0.54	<0.05	4.79	0.381	0.9
S727983		8.6	45.5	<0.002	<0.01	0.49	18.9	1	1.3	267	1.29	<0.05	6.49	0.594	1.7
S727984		6.2	44.9	<0.002	<0.01	0.69	25.1	1	1.1	274	0.53	<0.05	3.99	0.472	1.0
S727985		14.1	77.7	<0.002	<0.01	0.45	18.4	1	1.8	263	1.49	<0.05	10.80	0.635	2.1
S727986		11.2	59.3	<0.002	<0.01	0.69	23.8	1	1.5	264	1.16	<0.05	8.02	0.644	1.7
S727987		11.5	59.3	<0.002	0.01	0.82	22.9	2	1.5	257	1.50	<0.05	7.24	0.581	2.0
S727988		6.3	48.2	<0.002	<0.01	0.52	21.7	1	1.0	280	0.66	<0.05	5.41	0.443	1.1
S727989		8.7	43.8	<0.002	<0.01	0.55	24.0	1	1.3	326	0.94	<0.05	6.00	0.585	1.3
S727990		9.8	45.0	<0.002	<0.01	0.62	22.3	1	1.4	339	1.45	<0.05	9.82	0.601	1.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727951		110	0.6	19.5	93	192.0
S727952		150	0.8	20.1	96	142.5
S727953		138	0.8	20.0	92	151.5
S727954		97	0.7	18.9	68	203
S727955		111	0.5	20.0	65	247
S727956		138	1.1	20.8	86	138.5
S727957		139	1.2	21.1	78	127.0
S727958		118	1.3	25.2	77	157.0
S727959		126	1.5	25.9	88	154.0
S727960		123	1.9	25.6	83	154.5
S727961		156	1.0	21.4	104	137.5
S727962		158	1.0	22.3	88	142.0
S727963		175	1.1	23.0	102	139.0
S727964		144	0.8	22.3	101	170.0
S727965		134	0.8	21.3	86	177.5
S727966		135	0.8	22.1	91	184.5
S727967		129	1.1	23.5	78	158.0
S727968		124	0.9	21.1	71	163.0
S727969		131	1.1	23.2	80	166.5
S727970		115	1.4	24.5	67	140.0
S727971		123	2.9	24.5	76	169.0
S727972		120	1.5	24.8	78	154.0
S727973		134	1.2	22.9	84	164.5
S727974		134	1.2	22.8	87	153.5
S727975		121	1.4	29.2	79	179.5
S727976		120	1.6	28.2	84	157.0
S727977		129	1.2	24.9	79	173.0
S727978		134	1.2	25.7	98	176.5
S727979		172	1.2	20.5	90	141.5
S727980		163	2.3	13.0	46	187.5
S727981		137	0.4	16.3	63	120.0
S727982		135	0.4	13.1	62	90.4
S727983		129	0.5	18.6	75	157.5
S727984		166	0.9	16.8	82	90.0
S727985		130	0.7	24.9	106	186.5
S727986		165	0.9	22.0	111	160.5
S727987		163	1.2	20.8	117	160.5
S727988		145	0.4	16.0	85	121.5
S727989		152	0.7	21.3	76	142.5
S727990		144	0.7	20.4	73	182.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S727991		0.69	0.004	0.02	7.09	4.5	520	1.47	0.07	2.19	0.11	91.1	18.1	152	1.32	28.9
S727992		1.17	0.532	0.10	7.17	738	500	1.18	0.12	3.04	0.18	71.6	49.1	530	1.83	142.0
S727993		0.87	0.055	0.07	6.78	31.8	510	1.49	0.09	2.52	0.17	86.0	33.6	375	1.93	55.0
S727994		0.77	0.006	0.04	7.07	10.9	550	1.42	0.12	2.36	0.11	74.8	33.4	430	2.20	53.2
S727995		1.20	0.006	0.05	7.57	20.7	590	1.42	0.15	1.98	0.13	74.5	32.1	321	2.83	55.4
S727996		1.11	0.006	0.03	7.50	20.1	600	1.52	0.12	2.11	0.09	85.6	25.2	203	2.06	50.2
S727997		0.93	0.004	0.09	7.86	15.8	630	1.80	0.14	1.97	0.22	101.5	28.3	181	2.71	57.6
S727998		1.00	0.003	0.06	7.64	16.7	610	1.80	0.13	1.84	0.19	103.0	29.3	171	2.56	48.9
S727999		0.85	0.003	0.06	7.62	13.3	610	1.96	0.14	2.00	0.22	97.7	25.6	176	2.64	55.6
S728000		0.19	0.003	0.03	6.24	0.6	400	1.04	0.04	1.74	0.04	20.1	5.6	45	0.80	7.0
S728051		1.08	0.009	0.04	7.40	32.3	490	1.34	0.09	3.03	0.20	72.0	47.7	524	1.90	114.0
S728052		0.91	0.005	0.09	6.92	18.6	430	1.17	0.09	3.42	0.17	66.7	77.9	742	1.76	326
S728053		0.95	0.016	0.11	7.04	34.4	430	1.40	0.11	2.91	0.25	87.0	51.3	646	1.91	217
S728054		0.93	0.009	0.11	7.28	42.3	440	1.28	0.14	2.79	0.29	70.2	52.5	628	2.48	172.5
S728055		0.81	0.014	0.08	7.44	45.6	540	1.51	0.13	2.74	0.20	85.0	37.6	430	2.32	110.0
S728056		0.98	0.006	0.03	7.37	24.7	460	1.31	0.08	3.10	0.16	80.0	44.4	576	1.62	99.6
S728057		0.89	0.003	0.03	7.06	5.1	490	1.46	0.08	2.21	0.12	91.0	22.6	224	1.56	43.9
S728058		0.90	0.006	0.07	7.40	9.1	450	1.37	0.12	2.31	0.16	75.6	40.2	547	2.28	111.5
S728059		1.15	0.002	0.04	7.09	7.3	470	1.40	0.10	2.27	0.18	82.6	25.4	289	1.60	53.4
S728060		1.02	0.003	0.05	7.10	8.1	460	1.35	0.09	2.23	0.18	82.1	25.7	274	1.65	54.0
S728061		1.08	0.004	0.04	7.21	7.8	490	1.32	0.09	2.69	0.13	81.1	34.2	404	1.51	67.4
S728062		0.67	0.003	0.07	7.04	5.3	560	1.56	0.23	2.98	0.15	142.5	31.3	379	1.46	52.3
S728063		1.01	0.002	0.02	7.42	4.2	550	1.64	0.08	2.15	0.13	89.3	21.4	199	1.73	44.4
S728064		0.82	0.006	0.08	7.61	7.6	500	1.48	0.10	2.57	0.16	82.5	42.6	470	2.35	182.0
S728065		0.75	0.006	0.05	7.07	5.4	450	1.16	0.07	2.94	0.15	75.6	40.8	405	1.45	96.0
S728066		0.83	0.103	0.04	7.27	5.9	430	1.17	0.08	3.17	0.12	62.7	46.3	421	1.30	79.0
S728067		0.76	0.008	0.01	7.23	7.5	420	1.07	0.06	2.78	0.12	62.2	31.0	260	1.25	88.8
S728068		0.79	0.002	0.01	6.98	3.8	520	1.48	0.08	2.20	0.12	90.3	17.6	123	1.36	32.4
S728069		1.00	0.005	0.03	7.11	4.8	520	1.60	0.08	2.26	0.13	82.5	21.2	155	1.40	40.7
S728070		0.73	0.006	0.06	7.85	15.8	540	1.57	0.11	2.19	0.18	80.6	34.2	179	2.36	73.8
S728071		0.84	0.007	0.03	7.27	17.7	480	1.31	0.10	3.29	0.21	85.6	36.8	362	1.28	89.0
S728072		1.01	0.195	0.07	7.77	31.1	530	1.34	0.21	3.53	0.22	103.0	36.6	348	1.98	76.5
S728073		0.83	0.071	0.04	7.15	7.1	570	1.21	0.10	3.39	0.19	90.4	31.0	355	1.32	60.8
S728074		1.10	0.092	0.10	7.08	1085	530	1.44	1.00	2.13	0.22	86.2	27.7	135	1.48	52.2
S728075		0.86	0.007	0.02	7.20	7.8	540	1.57	0.12	2.02	0.17	90.3	17.7	127	1.45	21.9
S728076		0.86	0.050	0.07	7.44	67.5	560	1.49	0.25	2.13	0.19	86.2	22.8	110	1.34	39.7
S728077		1.01	0.003	0.04	7.05	5.2	630	2.12	0.08	2.11	0.20	120.5	33.7	404	1.72	51.7
S728078		0.91	0.006	0.08	7.31	6.4	620	2.41	0.08	2.07	0.26	115.5	34.9	311	2.08	60.0
S728079		0.77	0.003	0.01	7.38	4.8	540	1.72	0.08	1.94	0.07	102.0	20.9	125	1.65	34.5
S728080		0.17	0.002	0.03	6.25	1.4	400	1.07	0.04	1.76	0.04	19.85	6.0	44	0.84	7.7



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S727991		4.45	17.45	0.16	4.8	0.051	1.58	44.1	19.5	1.53	726	0.49	2.32	27.2	55.0	1170
S727992		7.23	17.80	0.15	3.3	0.059	1.33	35.0	25.6	4.94	1200	0.62	1.52	13.2	296	1460
S727993		5.28	17.45	0.15	3.9	0.055	1.50	41.7	24.3	3.23	848	0.72	1.85	26.3	202	1160
S727994		5.10	17.35	0.14	4.1	0.049	1.63	38.1	23.7	3.05	828	0.84	1.89	15.7	205	900
S727995		5.07	18.30	0.14	3.6	0.053	1.82	38.1	28.9	2.82	754	0.55	1.77	12.7	187.5	870
S727996		4.91	18.90	0.14	4.5	0.057	1.78	44.1	25.0	1.81	769	0.53	2.12	21.7	83.4	910
S727997		5.63	20.4	0.18	4.6	0.070	1.97	50.6	30.8	1.82	1020	1.14	2.09	25.3	90.1	1200
S727998		5.83	20.6	0.15	4.4	0.068	1.84	51.0	29.3	1.76	795	1.06	2.05	32.0	79.4	1100
S727999		5.17	19.80	0.18	4.3	0.055	1.92	49.7	29.2	1.79	814	0.99	2.06	36.8	102.0	1190
S728000		1.78	13.75	0.09	1.2	0.018	1.29	9.3	8.5	0.52	292	0.14	2.80	2.9	20.6	210
S728051		5.87	17.55	0.13	3.6	0.064	1.42	34.3	25.6	3.19	1080	0.63	1.87	19.5	312	1010
S728052		6.26	16.25	0.15	3.2	0.061	1.18	33.7	24.4	4.50	1100	0.56	1.63	21.2	538	960
S728053		6.01	17.50	0.16	3.8	0.069	1.25	43.7	26.5	4.15	866	0.89	1.63	22.8	352	1000
S728054		7.02	17.50	0.15	3.2	0.063	1.23	34.6	28.2	4.28	1000	1.06	1.42	16.2	378	1030
S728055		5.61	18.80	0.19	4.0	0.061	1.56	42.3	27.7	2.89	840	0.81	1.83	23.8	219	1100
S728056		5.92	17.70	0.17	3.5	0.060	1.25	38.6	24.5	3.20	1120	0.55	1.90	22.9	276	920
S728057		4.90	17.55	0.16	4.0	0.054	1.46	44.6	20.4	1.73	784	0.66	2.18	29.6	87.6	1220
S728058		5.97	18.70	0.18	3.7	0.063	1.25	44.7	29.8	3.44	812	0.62	1.66	24.4	273	930
S728059		5.25	17.40	0.15	3.8	0.068	1.40	40.4	22.0	2.13	812	0.62	2.01	31.1	120.0	1080
S728060		5.30	17.45	0.16	4.1	0.058	1.40	39.9	22.6	2.10	834	0.64	2.00	26.7	118.0	1110
S728061		5.46	19.10	0.16	4.4	0.047	1.40	41.7	22.7	2.64	926	0.94	2.03	29.0	186.0	1110
S728062		5.25	18.85	0.24	4.8	0.061	1.35	65.8	21.3	2.32	1230	0.70	2.14	56.2	157.5	3020
S728063		5.02	20.1	0.17	5.3	0.052	1.65	46.1	23.2	1.79	727	0.78	2.19	40.4	78.2	1250
S728064		5.83	19.85	0.18	4.1	0.052	1.37	46.5	27.2	2.80	1100	0.81	1.84	22.8	262	940
S728065		5.33	17.80	0.15	4.2	0.050	1.26	34.1	20.7	2.68	1060	0.55	1.96	23.0	228	1090
S728066		5.53	17.90	0.16	3.8	0.060	1.20	29.7	18.7	2.45	996	0.57	2.00	20.0	231	960
S728067		5.76	17.45	0.13	3.3	0.052	1.19	29.2	17.9	2.28	952	0.45	2.12	34.6	99.5	1090
S728068		4.21	18.85	0.19	5.5	0.046	1.59	43.5	17.4	1.25	613	0.55	2.31	29.9	44.2	1200
S728069		4.80	18.80	0.18	5.0	0.051	1.54	39.7	18.8	1.59	775	0.64	2.23	28.2	62.5	1210
S728070		6.08	20.8	0.16	4.1	0.058	1.61	40.7	26.2	1.98	1140	0.95	2.05	25.5	80.8	1270
S728071		4.76	18.25	0.17	5.0	0.054	1.39	41.0	17.9	1.74	1020	0.49	2.21	28.3	195.0	1200
S728072		5.56	19.60	0.17	6.3	0.056	1.48	52.3	22.7	2.16	1120	0.51	2.28	22.0	192.0	1220
S728073		4.29	17.50	0.15	5.5	0.052	1.64	41.6	16.2	1.72	898	0.53	2.14	21.6	166.0	1070
S728074		5.17	18.45	0.17	5.4	0.058	1.61	42.5	19.2	1.47	930	0.55	2.27	24.3	56.0	1160
S728075		4.48	19.05	0.17	6.1	0.048	1.61	41.0	18.8	1.24	743	0.51	2.28	25.4	44.4	1140
S728076		4.77	18.65	0.15	5.2	0.054	1.64	40.7	18.3	1.40	807	0.46	2.33	20.7	41.1	1060
S728077		6.22	20.2	0.20	5.5	0.070	1.51	61.3	27.1	2.22	1080	1.11	2.05	55.2	142.5	1830
S728078		6.60	21.8	0.19	5.5	0.076	1.65	59.1	29.5	2.30	1420	1.68	2.03	52.8	147.5	1780
S728079		5.14	19.90	0.17	4.7	0.062	1.58	49.2	22.3	1.50	844	0.76	2.24	37.1	46.7	1180
S728080		1.67	14.65	0.07	1.3	0.010	1.30	8.8	8.3	0.52	281	0.17	2.82	3.0	19.6	240



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S727991		11.4	54.5	<0.002	0.01	0.41	17.5	1	1.5	307	1.31	<0.05	7.87	0.623	1.7
S727992		8.0	55.0	<0.002	0.01	1.40	24.4	2	1.2	284	0.80	0.12	5.85	0.566	1.4
S727993		11.3	64.6	<0.002	0.01	0.49	20.4	1	1.5	267	1.24	<0.05	8.52	0.588	1.8
S727994		11.9	67.7	<0.002	0.01	0.58	19.8	1	1.4	292	0.83	<0.05	8.14	0.488	1.5
S727995		13.2	76.4	<0.002	0.01	0.86	18.7	1	1.4	274	0.74	<0.05	9.25	0.426	1.4
S727996		13.1	67.7	<0.002	0.01	0.46	19.2	1	1.7	301	1.11	<0.05	9.18	0.584	1.6
S727997		15.1	84.3	<0.002	0.01	0.53	19.9	2	1.7	278	1.34	<0.05	10.85	0.617	2.0
S727998		14.9	81.1	<0.002	0.01	0.55	19.6	2	1.9	261	1.44	0.05	10.75	0.644	2.3
S727999		14.8	81.1	<0.002	0.01	1.04	19.0	1	1.7	275	1.32	<0.05	10.55	0.568	1.9
S728000		6.5	46.2	<0.002	<0.01	0.11	5.8	<1	0.5	380	0.21	<0.05	1.33	0.154	0.3
S728051		10.6	57.3	<0.002	<0.01	0.76	23.8	1	1.3	263	1.00	<0.05	7.58	0.540	1.2
S728052		9.2	51.5	<0.002	<0.01	0.87	24.7	2	1.7	230	0.93	0.05	6.74	0.526	1.3
S728053		10.8	57.6	<0.002	0.01	0.79	24.8	2	1.7	222	1.09	0.06	7.65	0.559	1.9
S728054		10.4	58.0	<0.002	0.01	1.01	27.2	2	1.5	212	0.91	0.06	6.98	0.537	2.0
S728055		12.0	68.6	<0.002	0.02	0.77	22.3	1	1.6	274	1.14	<0.05	9.28	0.570	1.8
S728056		10.0	51.8	<0.002	0.01	0.73	25.9	1	1.3	268	1.07	<0.05	7.59	0.549	1.6
S728057		11.5	57.0	<0.002	0.01	0.45	19.7	2	1.5	277	1.29	<0.05	7.98	0.622	1.8
S728058		11.7	57.0	<0.002	0.02	0.68	24.5	1	1.5	214	1.17	<0.05	8.23	0.547	1.7
S728059		11.6	53.8	<0.002	0.01	0.52	20.9	1	1.5	271	1.20	<0.05	7.97	0.605	1.7
S728060		11.9	54.7	<0.002	0.02	0.55	20.4	2	1.5	264	1.24	<0.05	7.70	0.619	1.7
S728061		12.6	52.7	<0.002	0.01	0.59	23.5	1	1.6	276	1.51	<0.05	7.17	0.612	1.7
S728062		20.1	51.9	<0.002	0.01	0.44	23.0	2	1.8	340	2.02	0.05	23.5	0.638	2.1
S728063		12.5	60.4	<0.002	0.01	0.45	20.2	1	1.7	282	1.55	<0.05	9.27	0.658	2.0
S728064		12.0	58.1	<0.002	0.02	0.73	25.8	2	1.5	255	1.16	<0.05	8.83	0.584	2.2
S728065		10.1	46.9	<0.002	0.01	0.58	24.5	2	1.3	281	1.11	<0.05	6.77	0.565	1.4
S728066		9.2	42.4	<0.002	0.01	1.40	28.4	1	1.3	302	0.97	<0.05	5.30	0.608	1.4
S728067		7.5	39.5	<0.002	<0.01	0.72	28.2	1	1.4	276	1.23	<0.05	5.49	0.659	1.3
S728068		12.5	53.5	<0.002	0.01	0.45	18.5	1	1.7	321	1.48	<0.05	8.45	0.630	1.8
S728069		12.0	52.2	<0.002	<0.01	0.45	20.2	1	1.6	304	1.34	<0.05	8.51	0.652	1.7
S728070		13.1	65.5	<0.002	0.01	0.63	24.2	2	1.8	264	1.29	<0.05	8.42	0.620	2.1
S728071		11.4	47.1	<0.002	0.01	0.63	23.5	1	1.5	320	1.30	<0.05	7.69	0.607	1.7
S728072		11.1	64.8	<0.002	0.01	0.98	25.2	1	2.9	280	1.20	<0.05	8.25	0.585	2.2
S728073		12.3	51.8	<0.002	<0.01	0.44	18.8	1	1.9	377	1.10	<0.05	8.65	0.545	1.5
S728074		14.0	55.6	<0.002	0.01	0.47	20.7	1	1.7	312	1.19	0.21	8.73	0.599	1.8
S728075		12.4	54.5	<0.002	0.01	0.46	17.5	1	1.8	310	1.37	<0.05	8.26	0.653	1.7
S728076		13.0	52.3	<0.002	0.01	0.53	19.5	1	1.6	327	1.11	<0.05	8.12	0.588	1.6
S728077		11.2	57.4	<0.002	0.01	0.34	23.2	2	2.1	217	2.62	<0.05	8.38	0.943	1.8
S728078		11.9	67.5	<0.002	0.01	0.37	23.7	2	2.2	208	2.44	<0.05	9.45	0.912	2.3
S728079		12.6	57.5	<0.002	0.01	0.52	19.0	1	1.8	282	1.62	<0.05	8.86	0.679	2.0
S728080		6.9	46.6	<0.002	<0.01	0.11	6.2	<1	0.5	381	0.23	<0.05	1.31	0.155	0.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S727991		124	0.6	20.3	75	186.0
S727992		177	3.9	26.3	96	132.0
S727993		142	0.8	20.8	93	165.0
S727994		130	0.8	18.7	77	163.0
S727995		126	1.0	18.8	88	139.0
S727996		131	0.9	20.2	78	174.5
S727997		141	0.9	24.3	109	185.5
S727998		145	0.9	23.8	107	180.5
S727999		132	0.9	22.7	104	171.0
S728000		39	0.2	6.1	20	48.2
S728051		157	1.2	21.0	98	139.5
S728052		153	0.7	20.4	92	130.5
S728053		158	0.8	24.0	111	157.5
S728054		183	1.2	22.8	129	127.0
S728055		148	1.1	22.5	103	163.5
S728056		159	0.7	21.5	92	142.0
S728057		136	0.6	21.9	84	165.0
S728058		159	0.9	23.5	123	145.5
S728059		142	0.8	20.3	106	163.0
S728060		141	0.7	20.3	106	164.0
S728061		144	0.8	21.7	91	164.5
S728062		138	1.4	31.3	94	189.5
S728063		135	0.7	21.3	91	218
S728064		153	0.8	24.8	102	158.0
S728065		146	0.7	20.8	84	160.5
S728066		163	0.8	20.9	85	148.0
S728067		180	1.1	19.9	88	126.0
S728068		119	0.7	21.6	71	212
S728069		135	0.7	20.5	81	200
S728070		167	0.9	22.1	126	155.5
S728071		129	0.9	23.1	76	193.5
S728072		130	3.5	27.8	100	257
S728073		108	4.7	21.3	64	209
S728074		124	2.4	25.0	85	208
S728075		118	1.0	21.2	73	236
S728076		125	1.8	21.9	82	203
S728077		163	0.9	27.7	106	223
S728078		171	0.9	28.9	124	224
S728079		135	0.6	20.9	85	184.5
S728080		40	0.2	6.1	20	48.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728081		0.97	0.003	0.04	7.32	6.3	480	1.63	0.08	2.13	0.21	85.8	22.0	157	1.32	35.0
S728082		0.76	0.091	0.04	6.97	8.3	580	1.23	0.09	2.78	0.13	70.3	31.3	240	2.02	88.6
S728083		0.76	0.003	0.01	7.59	5.3	570	2.15	0.11	1.86	0.08	103.0	26.7	179	1.98	38.7
S728084		0.66	0.011	0.02	6.97	6.8	480	1.33	0.10	1.55	0.11	86.3	26.1	331	1.08	38.2
S728085		0.89	0.012	0.05	7.14	8.5	490	1.41	0.11	1.39	0.16	73.7	34.4	387	1.37	52.3
S728086		1.46	0.005	0.06	7.63	6.6	560	1.44	0.13	1.61	0.18	75.1	26.0	195	1.84	53.7
S728087		0.89	0.003	0.03	7.22	4.6	560	1.66	0.11	1.73	0.10	103.5	19.0	122	1.75	30.7
S728088		0.63	0.003	0.08	7.90	15.3	600	1.82	0.16	1.56	0.23	84.7	29.5	189	2.68	53.3
S728089		1.00	0.003	0.09	7.35	7.6	580	1.90	0.11	1.79	0.16	98.9	27.0	130	2.88	65.7
S728090		0.72	0.003	0.05	7.13	5.7	530	1.72	0.09	2.17	0.17	90.1	20.0	139	1.53	57.2
S728091		1.03	0.007	0.02	7.16	4.3	460	1.23	0.06	2.23	0.13	53.8	25.1	142	1.58	70.6
S728092		0.86	0.005	0.06	7.55	8.1	520	1.28	0.10	1.78	0.17	60.7	35.0	238	2.02	99.7
S728093		0.88	0.003	0.08	7.20	19.5	510	1.47	0.14	1.90	0.28	84.0	35.1	370	2.21	65.7
S728094		0.85	0.002	0.08	7.27	13.5	480	1.24	0.15	1.43	0.34	67.0	46.9	598	1.86	76.4
S728095		1.10	0.005	0.05	7.31	11.4	460	1.27	0.11	1.75	0.26	72.7	33.7	316	1.71	58.3
S728096		1.01	0.004	0.05	6.84	5.8	430	1.26	0.11	2.77	0.20	68.0	41.0	506	1.97	56.0
S728097		1.10	0.003	0.06	6.66	4.4	480	1.49	0.08	2.42	0.08	76.4	26.8	353	1.75	44.5
S728098		0.90	0.004	0.06	6.89	8.7	510	1.25	0.11	2.02	0.22	68.8	33.8	417	1.51	59.4
S728099		0.98	0.055	0.05	6.82	6.5	500	1.35	0.12	2.28	0.18	89.2	17.4	115	1.02	37.1
S728100		0.05	0.401	0.46	7.40	31.6	2780	2.95	5.35	0.60	0.29	86.9	13.3	18	6.38	1440
S728101		0.88	0.024	0.04	6.83	3.4	480	1.51	0.16	2.34	0.16	86.3	21.8	138	1.22	38.6
S728102		1.11	0.006	0.06	7.01	4.2	520	1.80	0.10	2.23	0.14	81.9	18.5	121	1.40	46.3
S728103		1.15	0.037	0.02	6.89	5.8	460	1.49	0.11	2.37	0.13	92.2	21.3	164	1.23	40.9
S728104		1.02	0.002	0.04	6.78	3.7	520	1.66	0.09	1.94	0.11	99.4	17.9	121	1.42	26.2
S728105		0.96	0.002	0.02	7.13	3.7	530	1.66	0.09	1.93	0.07	85.7	16.3	107	1.48	21.7
S728106		0.98	0.002	0.03	7.10	3.8	510	1.78	0.10	1.73	0.10	93.0	19.9	126	1.74	32.6
S728107		1.20	0.002	0.04	7.37	4.2	530	1.74	0.09	2.08	0.11	104.5	20.1	122	1.44	35.1
S728108		0.83	0.004	0.06	7.22	4.5	480	1.50	0.11	1.20	0.17	81.0	26.4	267	1.71	48.1
S728109		0.93	0.001	0.05	7.21	4.6	520	1.81	0.10	2.09	0.13	117.0	19.5	117	1.64	35.8
S728110		1.00	0.002	0.05	7.18	6.0	530	1.85	0.10	1.91	0.15	106.0	17.2	134	2.02	42.1
S728111		0.96	0.003	0.08	6.83	7.3	440	1.88	0.07	4.15	0.20	100.5	37.4	238	1.94	80.2
S728112		0.90	0.005	0.07	6.62	3.3	460	1.53	0.07	3.65	0.17	101.0	46.4	415	2.98	135.0
S728113		1.07	0.011	0.07	6.99	6.0	480	1.55	0.09	2.87	0.13	91.4	37.8	389	2.39	114.0
S728114		0.94	0.004	0.07	7.41	9.0	540	1.66	0.15	2.11	0.19	101.0	22.0	139	1.91	42.6
S728115		1.13	0.010	0.05	6.97	4.7	560	1.42	0.22	2.09	0.12	91.6	17.1	125	1.43	31.5
S728116		1.11	0.017	0.05	7.15	3.7	580	1.46	0.42	2.28	0.14	102.5	15.2	113	1.41	31.0
S728117		1.10	0.030	0.04	6.99	10.4	520	1.25	0.12	2.18	0.13	80.1	20.2	244	1.13	42.3
S728118		1.07	0.015	0.16	6.87	9.1	460	1.33	0.18	2.18	0.43	63.5	15.4	146	1.31	247
S728119		0.86	0.027	0.04	6.98	4.3	470	1.30	0.09	2.42	0.17	74.6	14.9	123	0.94	25.4
S728120		0.14	0.002	0.03	6.20	0.9	400	1.00	0.05	1.79	0.04	19.65	5.5	44	0.81	7.4



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728081		5.13	19.75	0.16	4.9	0.060	1.41	41.0	19.5	1.52	897	0.66	2.25	43.5	46.2	1360
S728082		5.49	17.30	0.15	4.1	0.048	1.63	31.9	19.7	2.74	1080	0.51	2.07	18.5	102.0	1140
S728083		5.75	21.1	0.15	5.0	0.064	1.61	40.5	27.2	1.70	1020	0.90	2.16	45.9	65.1	1450
S728084		5.04	17.95	0.19	4.8	0.055	1.50	39.3	19.6	1.95	875	0.47	1.91	28.6	133.0	1240
S728085		5.51	18.65	0.14	4.3	0.054	1.55	36.3	23.5	2.40	930	0.49	1.73	25.3	181.0	970
S728086		5.78	19.85	0.16	4.3	0.063	1.78	38.1	25.7	2.08	1320	0.57	1.82	27.2	87.3	1070
S728087		4.70	19.80	0.19	5.3	0.062	1.72	47.7	23.2	1.39	833	0.71	2.16	41.1	53.6	1120
S728088		5.74	21.9	0.17	3.9	0.057	1.93	41.7	31.3	2.06	1020	1.02	2.06	19.3	102.5	930
S728089		5.94	21.4	0.20	5.4	0.066	1.68	52.4	26.7	1.82	833	1.18	2.04	47.0	64.3	1380
S728090		4.73	18.15	0.18	5.1	0.048	1.59	42.6	19.1	1.51	827	0.57	2.20	25.7	54.5	1260
S728091		5.42	16.50	0.12	2.9	0.054	1.39	26.1	17.8	1.83	895	0.35	2.03	15.9	47.9	930
S728092		6.18	17.65	0.15	3.3	0.048	1.50	29.0	23.1	2.38	1220	0.59	1.79	19.8	93.8	970
S728093		5.59	19.40	0.15	4.3	0.060	1.59	39.8	25.5	2.28	950	1.00	1.96	30.9	166.0	1180
S728094		5.83	18.15	0.15	3.2	0.052	1.41	31.1	26.3	3.01	1130	0.74	1.72	20.7	280	850
S728095		6.17	19.10	0.16	3.7	0.062	1.40	32.7	23.0	2.54	1060	0.81	1.79	24.2	137.5	1090
S728096		5.82	18.70	0.15	4.3	0.062	1.29	32.2	21.4	4.55	938	0.78	1.73	20.8	313	940
S728097		5.04	17.00	0.12	4.3	0.046	1.41	39.1	22.5	3.15	790	0.62	1.92	25.7	202	990
S728098		4.98	17.05	0.11	4.2	0.048	1.51	31.2	23.1	3.34	716	0.50	1.84	15.2	233	770
S728099		4.21	17.10	0.14	5.5	0.054	1.48	43.0	16.7	1.39	813	0.45	2.21	22.2	46.2	1040
S728100		3.99	23.5	0.17	6.5	0.587	2.86	43.9	19.5	0.27	365	2.88	2.41	17.7	8.4	260
S728101		4.54	18.15	0.15	5.1	0.057	1.38	39.8	17.9	1.49	861	0.55	2.31	27.0	49.1	1100
S728102		4.22	17.55	0.15	5.1	0.052	1.55	40.0	19.3	1.44	679	0.46	2.20	70.0	50.3	1090
S728103		4.75	18.70	0.15	5.2	0.063	1.32	44.0	19.1	1.60	783	0.59	2.22	34.6	61.2	1230
S728104		4.23	17.95	0.15	5.2	0.058	1.52	43.6	21.5	1.28	755	0.59	2.23	35.9	50.0	1250
S728105		4.28	18.70	0.14	4.9	0.060	1.56	41.6	21.4	1.24	708	0.69	2.26	29.6	43.4	1070
S728106		4.82	19.15	0.14	5.1	0.057	1.54	40.0	24.2	1.38	768	0.67	2.08	33.8	54.2	1120
S728107		5.04	19.80	0.16	5.5	0.064	1.50	46.1	21.8	1.42	896	0.62	2.25	35.5	43.8	1230
S728108		4.99	19.75	0.13	4.1	0.069	1.54	37.9	27.2	2.19	454	0.60	1.65	26.1	132.0	770
S728109		4.87	19.75	0.18	5.4	0.067	1.60	62.0	23.5	1.44	841	0.86	2.27	42.5	45.2	1420
S728110		4.87	20.3	0.18	5.1	0.067	1.56	54.0	25.4	1.51	675	0.86	2.13	43.8	51.8	1380
S728111		8.19	21.8	0.18	5.1	0.094	1.19	48.9	25.4	2.91	1250	0.68	2.07	42.6	130.0	1560
S728112		7.66	20.9	0.16	4.5	0.078	1.36	50.2	40.4	3.63	1230	0.48	1.78	37.1	236	1200
S728113		6.47	19.95	0.15	5.1	0.065	1.28	45.0	27.8	3.39	1080	0.51	1.97	27.6	193.5	1070
S728114		5.11	19.65	0.16	5.3	0.065	1.58	56.7	23.1	1.65	881	0.74	2.21	46.9	62.4	1370
S728115		4.22	17.15	0.16	5.5	0.057	1.62	45.1	18.1	1.34	715	0.54	2.25	24.1	52.5	1130
S728116		3.98	18.20	0.14	6.8	0.051	1.70	50.8	17.4	1.19	653	0.50	2.42	27.9	45.6	1250
S728117		4.38	16.60	0.13	5.2	0.053	1.49	39.0	16.7	1.78	775	0.40	2.18	18.9	94.1	1010
S728118		8.71	16.95	0.12	4.7	0.081	1.40	32.0	15.7	1.32	701	2.95	2.05	18.3	65.0	1290
S728119		3.94	17.20	0.13	5.1	0.056	1.41	34.4	14.0	1.33	724	0.40	2.46	21.4	44.8	940
S728120		1.71	14.00	0.06	1.3	0.017	1.25	9.0	7.9	0.52	284	0.19	2.78	2.8	19.7	200



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728081		11.0	48.4	<0.002	<0.01	0.76	21.4	1	1.8	287	1.57	<0.05	7.53	0.731	1.7
S728082		10.1	47.7	<0.002	<0.01	0.75	21.8	1	1.4	310	0.95	<0.05	5.87	0.585	1.3
S728083		14.2	62.3	<0.002	0.02	0.51	20.3	1	2.0	266	2.24	0.05	8.86	0.747	2.3
S728084		9.9	50.6	<0.002	0.01	0.75	22.7	1	1.6	246	1.35	<0.05	7.16	0.596	1.6
S728085		12.3	56.2	<0.002	0.01	0.93	25.3	1	1.4	221	1.15	<0.05	7.63	0.500	1.6
S728086		13.9	64.0	<0.002	0.01	0.76	24.4	1	1.6	225	1.10	<0.05	7.49	0.588	1.6
S728087		14.5	60.6	<0.002	0.01	0.52	19.3	1	1.8	277	1.37	<0.05	10.15	0.614	2.1
S728088		18.3	83.1	<0.002	0.01	0.89	22.7	1	1.8	257	1.00	0.05	9.21	0.488	1.9
S728089		14.7	76.7	<0.002	0.01	0.56	21.7	2	1.8	263	1.65	<0.05	12.20	0.659	2.5
S728090		11.9	53.6	<0.002	0.01	0.50	18.7	1	1.5	320	1.27	<0.05	8.08	0.598	2.0
S728091		8.0	46.9	<0.002	<0.01	0.77	28.8	1	1.2	334	0.77	<0.05	4.66	0.600	1.2
S728092		11.0	54.0	<0.002	0.01	0.62	28.6	2	1.3	305	0.72	<0.05	6.65	0.489	1.5
S728093		14.6	68.4	<0.002	0.01	0.80	23.6	1	1.7	253	1.72	<0.05	8.69	0.607	2.3
S728094		12.3	58.7	<0.002	0.01	0.92	29.0	1	1.4	216	0.97	<0.05	6.80	0.533	1.5
S728095		11.0	54.1	<0.002	0.01	0.81	26.9	2	1.6	221	1.22	<0.05	6.06	0.659	1.6
S728096		10.2	53.5	<0.002	<0.01	0.65	24.4	1	1.5	230	1.01	<0.05	6.63	0.665	1.5
S728097		10.5	53.9	<0.002	0.01	0.45	17.2	2	1.4	246	1.18	<0.05	7.38	0.633	1.5
S728098		12.0	46.3	<0.002	0.01	0.71	19.8	1	1.3	254	0.82	<0.05	6.65	0.521	1.3
S728099		10.8	45.9	<0.002	<0.01	0.58	16.5	1	1.5	306	1.27	<0.05	7.11	0.577	1.8
S728100		27.0	125.0	<0.002	0.07	1.86	4.7	3	4.0	156.0	1.32	0.06	13.10	0.123	4.5
S728101		10.5	47.5	<0.002	0.01	0.50	19.7	1	1.6	287	1.39	<0.05	7.33	0.674	1.6
S728102		11.6	52.7	<0.002	0.01	0.45	17.0	1	1.5	305	1.27	<0.05	9.18	0.581	1.6
S728103		10.1	47.3	0.002	<0.01	0.65	20.4	2	1.9	279	1.61	<0.05	7.97	0.756	1.9
S728104		12.9	54.9	<0.002	0.01	0.38	15.4	2	1.6	281	1.67	<0.05	8.91	0.654	1.9
S728105		12.7	55.1	<0.002	0.01	0.45	14.8	1	1.7	291	1.37	<0.05	7.88	0.636	1.8
S728106		12.8	59.4	<0.002	0.01	0.41	15.9	1	1.7	257	1.65	<0.05	8.53	0.658	1.8
S728107		12.2	53.5	<0.002	0.01	0.55	18.1	1	1.7	304	1.49	<0.05	8.68	0.716	1.7
S728108		11.8	63.5	<0.002	0.01	1.01	23.6	1	1.6	184.0	1.75	<0.05	10.70	0.629	2.3
S728109		13.5	61.6	<0.002	0.01	0.48	17.4	2	1.9	288	1.90	<0.05	9.59	0.740	2.2
S728110		13.3	66.8	<0.002	0.01	0.49	18.2	2	1.9	269	2.11	<0.05	10.80	0.705	2.4
S728111		9.2	52.1	<0.002	<0.01	0.69	25.0	2	2.2	363	2.48	<0.05	7.35	1.395	1.5
S728112		9.1	70.2	<0.002	0.01	0.57	21.3	2	1.8	318	2.00	<0.05	7.10	1.165	1.5
S728113		10.6	55.2	<0.002	0.01	0.57	21.4	1	1.7	273	1.48	<0.05	8.31	0.898	1.5
S728114		13.6	64.1	<0.002	0.01	0.52	18.5	2	1.9	285	1.77	<0.05	9.44	0.684	2.5
S728115		12.3	52.8	<0.002	0.01	0.38	15.3	2	1.6	311	1.26	<0.05	8.67	0.607	1.8
S728116		13.6	56.1	<0.002	<0.01	0.37	14.5	1	1.7	353	1.49	<0.05	9.95	0.613	2.1
S728117		10.5	46.4	<0.002	<0.01	0.36	16.9	1	1.6	300	1.03	<0.05	7.01	0.586	1.5
S728118		14.1	46.7	<0.002	0.03	1.15	16.8	4	1.6	283	1.08	0.19	6.98	0.543	1.8
S728119		9.9	46.5	<0.002	<0.01	0.59	17.4	1	1.6	296	1.20	<0.05	6.05	0.598	1.4
S728120		6.5	46.0	<0.002	<0.01	0.07	5.6	1	0.5	377	0.23	<0.05	1.29	0.155	0.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S728081		148	0.8	23.1	93	193.5
S728082		149	1.2	19.1	76	156.5
S728083		153	0.8	20.1	93	195.5
S728084		139	0.8	20.0	77	179.5
S728085		154	0.7	19.7	90	162.0
S728086		150	0.9	23.7	96	163.5
S728087		120	0.8	21.6	77	204
S728088		146	1.1	20.0	107	146.5
S728089		163	0.8	24.1	108	208
S728090		131	0.8	20.7	79	200
S728091		180	1.0	19.0	77	114.5
S728092		189	0.7	19.6	100	125.5
S728093		150	0.8	21.5	109	167.5
S728094		167	0.8	19.1	110	125.0
S728095		181	0.9	20.7	105	146.0
S728096		162	0.8	20.7	100	160.5
S728097		128	0.6	19.2	82	163.5
S728098		131	0.8	18.6	83	155.5
S728099		116	1.3	20.2	79	205
S728100		9	2.7	15.1	136	244
S728101		132	1.3	23.0	79	188.5
S728102		117	1.6	20.4	75	189.0
S728103		137	2.1	24.2	82	198.5
S728104		112	0.7	20.0	76	192.0
S728105		114	0.6	19.3	72	188.0
S728106		124	0.7	19.2	82	186.5
S728107		132	0.7	22.1	87	203
S728108		155	0.9	21.2	105	151.5
S728109		129	0.6	23.8	88	202
S728110		128	0.7	25.7	97	199.5
S728111		223	0.8	28.3	102	185.5
S728112		198	0.7	23.6	100	174.5
S728113		174	0.8	22.1	95	202
S728114		132	2.3	24.5	97	201
S728115		115	4.0	20.8	75	209
S728116		104	1.2	22.2	69	250
S728117		115	2.5	20.9	72	201
S728118		132	1.2	18.3	230	181.5
S728119		113	1.8	21.0	64	191.0
S728120		39	0.2	6.2	20	46.8



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728121		0.89	0.006	0.05	6.72	8.3	480	1.36	0.11	3.01	0.18	78.8	39.0	474	1.54	50.1
S728122		0.74	0.002	0.03	6.30	6.6	400	1.24	0.10	3.35	0.09	75.0	41.3	525	1.25	54.3
S728123		0.74	0.003	0.08	7.40	10.0	590	1.69	0.15	1.87	0.12	93.0	21.7	162	2.34	38.7
S728124		0.98	0.003	0.08	6.74	19.6	520	1.32	0.12	2.08	0.18	79.1	24.6	236	1.97	66.2
S728125		0.73	0.014	0.05	6.85	7.7	490	1.21	0.11	1.70	0.15	87.8	20.0	160	1.12	66.3
S728126		0.92	0.001	0.04	6.84	4.3	540	1.35	0.10	2.04	0.09	85.9	16.7	159	1.61	34.4
S728127		1.03	<0.001	0.09	7.31	5.8	600	1.44	0.12	1.88	0.19	80.4	21.1	180	2.19	44.2
S728128		0.90	0.007	0.04	6.87	4.1	440	1.15	0.08	1.71	0.08	69.6	20.5	154	1.12	44.5
S728129		0.78	0.003	0.10	7.39	9.2	540	1.22	0.14	1.41	0.19	65.5	28.1	262	1.69	47.4
S728130		0.77	0.002	0.02	6.59	3.6	460	1.18	0.07	1.90	0.11	76.5	19.5	208	1.17	29.6
S728131		0.69	0.002	0.04	8.27	10.2	610	1.55	0.13	1.31	0.06	77.1	32.2	293	2.55	50.8
S728132		0.98	0.009	0.07	7.80	11.0	580	1.37	0.18	1.36	0.19	80.2	24.6	256	2.72	55.5
S728133		0.91	0.001	0.08	6.89	6.0	550	1.98	0.11	2.21	0.18	111.0	28.6	294	2.04	49.9
S728134		0.68	0.002	0.05	6.99	16.8	560	1.41	0.10	1.96	0.15	73.6	19.6	168	1.57	51.1
S728135		0.87	0.002	0.06	7.37	19.2	540	1.45	0.15	1.67	0.14	75.3	30.3	332	2.13	72.4
S728136		1.27	0.003	0.06	7.69	6.8	700	1.60	0.15	1.65	0.17	77.9	21.6	147	2.68	53.8
S728137		0.80	0.004	0.07	6.86	25.9	500	1.55	0.15	1.98	0.18	86.5	26.6	261	1.45	56.1
S728138		0.91	0.063	2.13	7.58	104.0	580	1.44	0.99	1.01	0.18	65.5	13.1	152	1.48	74.0
S728139		0.80	0.005	0.07	6.89	8.7	510	1.45	0.17	2.01	0.12	87.3	25.9	236	1.37	53.6
S728140		0.07	0.001	0.04	9.39	10.4	160	0.89	0.33	0.32	0.04	48.7	7.2	116	6.33	31.8
S728141		0.86	0.003	0.11	7.23	13.4	520	1.54	0.16	2.07	0.36	77.7	31.0	290	1.78	94.2
S728142		0.62	0.003	0.04	6.90	6.7	510	1.55	0.11	2.02	0.09	81.5	24.1	204	1.51	43.6
S728143		0.89	0.003	0.08	7.09	11.1	470	1.54	0.15	2.12	0.17	102.5	32.9	343	1.78	72.9
S728144		0.92	0.002	0.10	6.90	11.8	390	1.03	0.13	2.16	0.19	59.2	47.1	595	1.63	81.6
S728145		0.84	0.002	0.08	6.59	11.8	350	1.15	0.14	2.28	0.20	57.9	52.9	693	1.46	85.0
S728146		0.75	0.005	0.07	7.21	8.7	490	1.26	0.16	2.47	0.14	70.8	32.4	402	1.71	61.2
S728147		0.54	0.011	0.08	7.15	87.0	530	1.59	0.14	1.78	0.13	97.3	24.7	210	1.70	46.2
S728148		1.06	0.002	0.08	7.09	10.2	530	1.26	0.15	2.07	0.15	66.0	27.1	259	1.76	61.1
S728149		0.84	0.009	0.23	7.19	98.1	450	1.23	0.64	2.24	0.40	63.1	39.1	519	1.96	83.4
S728150		0.85	0.017	0.17	7.00	63.1	460	1.22	0.36	2.15	1.00	68.2	39.3	466	1.82	69.1
S728151		1.10	0.005	0.13	7.04	26.5	480	1.44	0.28	2.18	0.26	70.1	31.9	375	1.98	65.1
S728152		0.96	0.002	0.07	7.04	8.3	430	1.23	0.12	2.61	0.19	67.7	38.7	473	1.84	71.8
S728153		0.67	0.002	0.06	7.39	10.0	520	1.45	0.12	2.17	0.12	85.6	24.0	257	1.91	46.3



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728121		5.78	17.80	0.12	3.8	0.059	1.40	36.3	21.2	4.43	990	0.45	1.61	19.5	300	870
S728122		5.97	16.85	0.12	4.1	0.061	1.11	33.4	20.8	4.81	985	0.43	1.53	22.9	329	660
S728123		5.09	19.70	0.15	4.6	0.061	1.76	46.9	24.4	1.76	866	0.93	2.08	29.5	80.6	1030
S728124		4.99	17.85	0.13	5.4	0.055	1.51	40.4	18.1	2.14	828	1.14	2.03	22.5	123.0	1080
S728125		4.96	17.55	0.15	4.2	0.063	1.43	41.4	17.0	1.43	995	0.62	2.00	25.2	57.1	1100
S728126		4.06	17.40	0.14	5.3	0.052	1.58	44.2	18.3	1.60	669	0.49	2.15	25.3	72.4	1010
S728127		4.54	18.50	0.13	4.8	0.054	1.86	41.3	22.3	1.68	730	0.61	2.07	20.8	87.7	980
S728128		5.20	17.15	0.11	4.3	0.062	1.41	34.2	19.0	1.82	930	0.38	1.94	18.5	61.3	900
S728129		5.58	18.55	0.12	3.9	0.063	1.77	31.6	22.9	2.29	816	0.67	1.55	13.4	129.5	850
S728130		4.06	16.80	0.14	5.0	0.060	1.36	37.0	16.1	1.86	586	0.44	2.10	26.0	88.1	1060
S728131		6.92	21.8	0.12	3.3	0.068	1.83	38.8	30.3	3.09	895	0.63	1.64	19.1	139.5	730
S728132		5.32	20.5	0.12	3.9	0.068	1.80	37.7	29.2	2.30	572	0.61	1.66	16.3	122.0	550
S728133		5.19	18.80	0.15	4.5	0.060	1.54	53.8	26.5	2.80	628	1.21	1.96	38.9	171.0	1390
S728134		4.21	16.90	0.12	4.0	0.042	1.61	33.4	20.1	1.51	766	0.47	2.13	16.9	68.8	970
S728135		5.68	18.75	0.13	4.3	0.055	1.51	38.1	26.5	2.84	916	0.62	1.82	18.2	162.5	860
S728136		4.27	19.80	0.13	3.8	0.051	2.13	37.6	28.9	1.62	647	0.47	2.01	15.3	70.8	820
S728137		5.21	19.10	0.14	4.6	0.065	1.48	42.6	21.4	2.31	865	0.88	1.97	37.2	130.0	1100
S728138		8.83	22.2	0.15	3.9	0.188	2.52	35.2	19.9	1.27	532	8.38	1.09	20.8	41.0	1020
S728139		5.15	18.05	0.13	4.5	0.059	1.46	40.7	20.2	2.25	1020	0.64	2.02	35.1	121.0	1040
S728140		6.56	25.7	0.10	4.4	0.087	0.49	22.6	35.8	0.33	494	2.40	0.13	22.5	44.2	510
S728141		5.46	19.05	0.13	4.2	0.059	1.61	36.5	23.7	2.62	998	0.79	1.86	21.0	153.0	1080
S728142		4.71	18.45	0.13	4.5	0.057	1.55	37.2	21.9	2.06	846	0.73	2.06	27.5	108.5	1080
S728143		5.97	19.55	0.14	4.6	0.068	1.38	52.4	24.8	3.09	1070	0.83	1.81	35.1	192.0	1020
S728144		6.44	18.30	0.09	3.5	0.057	1.14	28.1	21.7	5.09	1100	0.62	1.52	18.0	385	830
S728145		6.94	17.50	0.11	3.3	0.060	1.00	27.0	20.1	6.13	1660	0.54	1.42	21.1	465	910
S728146		5.41	18.10	0.12	4.1	0.053	1.45	34.0	21.3	3.50	909	0.49	1.82	17.7	230	1020
S728147		5.17	18.95	0.13	4.5	0.056	1.48	46.0	22.8	2.05	949	0.78	2.02	30.9	100.5	1070
S728148		5.19	17.90	0.12	3.8	0.048	1.56	32.5	20.9	2.47	915	0.54	1.91	15.8	135.0	910
S728149		6.16	18.60	0.11	3.6	0.068	1.32	30.6	22.7	4.23	933	0.46	1.66	16.6	281	740
S728150		6.14	17.45	0.11	3.9	0.064	1.39	32.5	21.2	3.68	810	0.48	1.70	18.6	263	910
S728151		5.63	18.45	0.11	3.8	0.068	1.41	33.6	22.9	3.28	919	0.53	1.78	18.6	201	840
S728152		5.94	18.20	0.10	3.7	0.055	1.30	31.9	22.6	4.36	866	0.51	1.70	17.7	303	970
S728153		5.38	19.50	0.12	4.6	0.059	1.58	40.8	23.8	2.49	687	0.74	2.08	30.8	126.0	980



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728121		11.1	50.5	<0.002	0.01	0.54	21.9	1	1.6	200	1.13	<0.05	6.47	0.753	1.6
S728122		9.5	38.7	<0.002	<0.01	0.64	22.1	1	1.7	188.0	1.27	<0.05	6.49	0.935	1.2
S728123		14.1	74.3	<0.002	0.01	0.79	16.2	2	1.9	266	1.40	<0.05	10.70	0.595	2.0
S728124		13.5	58.1	<0.002	0.01	1.19	17.2	1	1.6	291	1.20	<0.05	7.61	0.595	1.7
S728125		9.7	47.7	<0.002	0.01	0.91	18.9	1	1.6	236	1.22	<0.05	6.71	0.728	1.5
S728126		12.2	57.7	<0.002	0.01	0.42	14.5	2	1.6	308	1.14	<0.05	8.64	0.546	1.7
S728127		14.0	70.6	<0.002	0.01	0.47	16.4	2	1.5	291	1.10	<0.05	9.80	0.522	1.8
S728128		9.7	47.3	<0.002	0.01	0.58	20.1	1	1.5	240	1.00	<0.05	6.13	0.698	1.3
S728129		13.2	64.1	<0.002	0.01	0.77	21.1	1	1.4	206	0.85	<0.05	7.48	0.500	1.5
S728130		10.5	48.7	<0.002	<0.01	0.59	18.7	1	1.5	277	1.23	<0.05	6.84	0.647	1.6
S728131		13.1	75.3	<0.002	0.02	0.65	23.0	1	1.7	185.0	0.93	<0.05	7.80	0.508	1.5
S728132		17.2	77.9	<0.002	0.01	1.02	21.3	1	1.7	211	0.96	<0.05	9.44	0.544	1.9
S728133		15.2	60.8	0.002	0.01	0.45	17.9	1	1.6	251	1.91	<0.05	10.05	0.688	2.5
S728134		12.3	58.1	<0.002	0.01	0.68	17.4	1	1.2	327	0.83	<0.05	7.21	0.450	1.4
S728135		13.4	59.4	<0.002	0.02	0.60	20.0	1	1.4	246	1.03	<0.05	8.30	0.523	1.6
S728136		16.4	82.9	<0.002	0.01	0.51	16.1	1	1.5	301	0.78	<0.05	10.25	0.409	1.5
S728137		14.3	54.7	<0.002	0.01	0.83	19.7	1	1.6	248	1.56	0.07	9.75	0.640	2.2
S728138		88.8	79.3	<0.002	0.17	4.81	24.3	9	4.3	167.0	0.87	1.52	6.01	0.530	2.3
S728139		16.1	52.7	<0.002	0.01	0.60	19.2	1	1.6	254	1.79	<0.05	8.79	0.662	2.1
S728140		23.6	59.1	<0.002	0.05	0.66	13.4	3	3.8	47.4	1.60	0.07	15.85	1.035	2.8
S728141		15.1	62.0	<0.002	0.01	0.72	21.1	1	1.5	253	1.22	<0.05	7.41	0.603	1.5
S728142		13.1	58.3	<0.002	0.01	0.47	17.9	1	1.5	268	1.30	<0.05	9.63	0.633	1.7
S728143		14.2	55.9	<0.002	0.01	0.62	21.2	1	1.7	233	2.02	<0.05	9.80	0.663	2.1
S728144		11.6	45.7	<0.002	0.01	0.91	23.3	1	1.3	184.5	0.93	0.09	6.13	0.612	1.4
S728145		8.7	40.5	<0.002	0.01	0.87	23.6	1	1.3	169.0	0.97	0.08	5.29	0.687	1.0
S728146		11.3	52.4	<0.002	0.01	0.61	19.5	1	1.4	257	1.23	0.06	7.54	0.587	1.7
S728147		13.6	57.9	<0.002	0.03	0.64	17.2	1	1.6	253	1.38	0.06	9.20	0.577	1.9
S728148		12.1	55.9	<0.002	0.01	0.67	19.2	1	1.3	282	0.87	<0.05	7.53	0.517	1.4
S728149		37.8	52.1	<0.002	0.01	1.16	23.7	1	1.7	221	0.89	0.05	7.09	0.600	1.3
S728150		38.3	51.9	<0.002	0.01	1.54	21.8	1	1.6	221	1.15	0.07	7.38	0.612	1.6
S728151		19.4	55.2	<0.002	0.01	0.77	21.1	1	1.5	237	0.96	0.05	7.89	0.594	1.5
S728152		13.9	49.6	<0.002	0.01	0.68	22.0	1	1.4	228	0.93	<0.05	6.49	0.644	1.3
S728153		13.2	64.5	<0.002	0.01	0.58	18.4	1	1.7	261	1.50	<0.05	9.46	0.680	1.9



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143599

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728121		154	1.1	21.7	95	142.0
S728122		162	0.9	21.4	84	150.5
S728123		122	1.4	20.8	95	173.5
S728124		122	0.6	21.0	90	199.0
S728125		127	1.0	23.2	83	158.0
S728126		105	0.6	19.4	69	200
S728127		119	0.8	19.3	82	172.5
S728128		158	0.8	20.2	77	159.5
S728129		156	0.8	18.4	94	142.0
S728130		126	0.7	20.0	65	187.5
S728131		192	0.9	17.5	120	122.0
S728132		150	1.1	19.2	108	143.5
S728133		136	0.8	22.2	102	182.0
S728134		112	0.7	16.9	73	151.0
S728135		145	1.0	19.4	101	158.5
S728136		113	1.0	17.9	82	141.0
S728137		134	1.1	21.5	97	181.0
S728138		213	1.7	16.9	167	152.0
S728139		131	1.7	21.3	91	169.0
S728140		158	2.4	11.4	47	168.0
S728141		137	1.1	22.8	129	161.0
S728142		122	0.8	18.6	82	169.0
S728143		147	1.0	22.7	111	176.0
S728144		167	0.9	19.3	101	128.0
S728145		176	0.9	19.5	103	127.0
S728146		141	0.9	19.9	88	154.5
S728147		130	0.7	19.9	95	176.0
S728148		137	0.9	18.5	88	145.0
S728149		165	1.2	19.6	136	134.5
S728150		155	1.0	18.7	158	150.5
S728151		153	1.1	19.3	108	147.5
S728152		161	0.8	20.6	95	138.0
S728153		138	0.7	21.0	103	173.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143599

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS Applies to Method: REE's may not be totally soluble in this method. ME-MS61 LABORATORY ADDRESSES Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada. DRY-21 LOG-22 LOG-23 PUL-31 SCR-41 WEI-21 Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: QK-2016-TS-005

This report is for 113 Soil samples submitted to our lab in Val d'Or, QC, Canada on 29-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DRY-21	High Temperature Drying
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31	Pulverize split to 85% <75 um
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143601

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728573		1.55	0.001	0.04	7.60	6.3	500	1.33	0.10	1.68	0.12	94.4	20.0	141	1.80	43.2
S728574		1.28	0.002	0.03	8.30	5.5	540	1.27	0.10	2.20	0.15	64.0	35.6	206	1.96	76.4
S728575		1.32	0.001	<0.01	7.22	2.8	450	1.22	0.06	3.02	0.15	82.2	22.4	206	0.89	31.2
S728576		1.49	0.003	0.01	7.30	3.7	490	1.48	0.06	3.11	0.16	80.0	37.8	463	1.05	59.2
S728577		1.48	0.003	0.04	7.34	3.9	530	1.67	0.07	2.54	0.17	99.0	26.0	251	1.40	36.8
S728578		1.56	0.002	0.04	7.49	6.6	580	1.41	0.10	2.23	0.19	86.4	24.8	183	1.78	39.3
S728579		1.66	0.005	0.03	7.21	10.6	520	1.40	0.11	1.96	0.16	92.5	25.0	197	1.78	38.0
S728580		1.51	0.009	0.01	6.93	7.6	480	1.35	0.09	1.98	0.11	84.9	18.8	172	1.17	38.4
S728581		1.75	0.002	0.01	7.00	4.1	540	1.44	0.08	2.02	0.13	93.4	23.3	223	1.61	35.1
S728582		1.34	0.049	0.03	7.15	9.7	550	1.60	0.19	1.99	0.18	92.0	24.5	164	1.65	48.7
S728583		1.38	0.028	0.02	6.73	9.6	460	1.60	0.21	2.11	0.32	104.5	21.7	160	1.24	71.1
S728584		1.60	0.005	0.01	7.01	15.9	490	1.29	0.10	2.50	0.17	89.3	25.9	256	1.42	38.1
S728585		1.40	1.565	0.41	7.08	66.2	490	1.44	0.49	2.26	0.28	94.3	27.2	151	1.21	50.1
S728586		1.47	0.009	0.03	7.09	10.1	550	1.44	0.12	2.12	0.19	94.8	22.0	142	1.52	32.4
S728587		1.31	0.023	0.04	7.20	56.3	560	1.39	0.16	2.03	0.22	99.8	20.2	130	1.53	42.7
S728588		1.48	0.032	0.08	6.94	54.6	550	1.30	0.14	1.50	0.20	67.9	33.6	446	1.95	52.9
S728589		1.18	0.011	0.06	7.29	23.6	570	1.49	0.12	1.94	0.15	92.8	20.9	133	1.84	59.7
S728590		1.26	0.019	0.06	6.92	25.1	520	1.67	0.15	2.09	0.15	98.2	20.1	160	1.47	45.9
S728591		0.07	0.024	0.15	8.39	13.5	190	0.67	0.32	0.19	0.02	36.6	29.2	550	3.78	361
S728592		1.47	0.005	0.05	7.19	12.7	520	1.45	0.11	2.20	0.18	87.1	22.8	165	1.41	51.4
S728593		1.30	0.014	0.03	6.94	7.6	510	1.26	0.14	2.49	0.19	98.1	19.9	141	1.08	42.0
S728594		1.42	0.008	0.04	6.95	12.5	590	1.40	0.12	2.24	0.13	101.0	22.8	128	1.56	68.3
S728595		1.53	0.004	0.06	7.42	6.8	530	1.40	0.11	2.39	0.18	87.3	25.5	146	1.61	61.3
S728596		1.24	0.003	0.03	6.55	4.8	480	1.47	0.08	2.30	0.13	106.5	17.1	120	1.16	29.3
S728597		1.24	0.009	0.03	6.93	6.4	530	1.23	0.10	2.34	0.17	83.1	22.8	176	1.07	36.2
S728598		1.26	0.008	0.05	6.90	15.7	510	1.30	0.11	3.06	0.18	78.3	35.1	284	1.42	88.0
S728599		1.38	0.135	0.12	7.26	113.0	520	1.24	0.65	2.62	0.16	76.7	42.9	568	1.64	68.7
S728600		1.29	0.015	0.06	6.63	20.9	450	1.29	0.18	1.92	0.14	70.4	40.6	523	2.01	71.2
S728601		1.29	0.005	0.13	7.57	15.3	610	1.64	0.15	2.05	0.22	99.4	28.8	127	2.14	114.0
S728602		1.20	0.002	0.04	7.04	9.5	580	1.50	0.10	2.04	0.14	103.5	17.7	141	1.52	34.9
S728603		1.22	0.012	0.13	8.27	55.5	700	1.56	0.23	1.45	0.30	76.7	33.5	222	3.02	97.6
S728604		1.51	0.002	0.05	7.29	14.1	580	1.66	0.12	1.77	0.17	98.8	24.3	187	2.04	44.4
S728605		1.30	0.003	0.06	7.36	5.6	560	1.45	0.10	1.97	0.14	85.8	22.2	184	1.88	41.3
S728606		1.22	0.003	0.07	7.45	8.3	600	1.56	0.12	1.81	0.22	87.5	25.7	162	2.41	48.9
S728607		1.42	0.002	0.04	7.68	5.4	560	1.40	0.11	1.95	0.11	81.2	25.3	181	1.88	42.7
S728608		1.47	0.003	0.01	7.33	4.3	520	1.38	0.08	1.99	0.12	85.0	20.5	134	1.28	29.8
S728609		1.23	0.007	0.04	7.54	16.1	520	1.44	0.14	2.51	0.15	74.7	26.9	185	1.57	44.8
S728610		1.57	0.028	0.05	7.57	56.8	450	1.30	0.22	2.64	0.20	67.9	38.8	262	1.55	80.8
S728611		0.16	0.001	0.03	6.41	1.1	400	0.97	0.06	1.84	0.04	19.35	5.7	54	0.78	8.3
S728612		1.45	0.002	0.06	7.36	13.5	620	1.60	0.13	2.08	0.14	96.0	25.0	154	1.96	47.9



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728573		5.62	19.90	0.12	5.7	0.061	1.47	47.4	19.7	1.62	739	0.63	2.04	34.0	44.3	1140
S728574		6.62	20.5	0.11	3.9	0.060	1.60	31.2	24.5	2.78	992	0.44	1.94	18.4	99.1	920
S728575		4.67	18.90	0.14	5.7	0.067	1.25	37.9	13.7	1.69	775	0.37	2.38	25.9	58.1	1080
S728576		5.46	17.85	0.12	4.8	0.066	1.15	38.7	17.4	2.68	908	0.37	2.07	27.6	210	1100
S728577		5.21	19.75	0.15	5.8	0.062	1.48	47.8	19.3	1.85	865	0.47	2.32	33.6	82.9	1360
S728578		4.78	18.95	0.13	5.2	0.054	1.70	40.3	19.3	1.65	932	0.64	2.28	22.0	73.8	1090
S728579		4.78	18.30	0.17	5.5	0.052	1.61	43.5	21.4	1.82	898	0.45	2.10	23.6	96.0	1460
S728580		4.25	17.40	0.14	5.5	0.055	1.41	39.7	16.4	1.47	605	0.52	2.25	25.3	63.3	1010
S728581		4.83	18.90	0.16	5.8	0.059	1.58	47.9	20.0	1.60	749	0.61	2.17	29.3	77.2	1180
S728582		5.06	19.00	0.18	5.3	0.060	1.59	43.8	20.1	1.67	946	0.48	2.08	24.4	67.2	1210
S728583		5.42	17.85	0.15	5.4	0.069	1.43	46.0	16.0	1.35	998	1.22	2.08	45.1	53.8	1550
S728584		4.66	17.70	0.16	5.7	0.061	1.41	42.4	17.8	1.60	954	0.49	2.21	28.2	104.5	1210
S728585		4.67	18.70	0.15	6.0	0.062	1.48	44.2	17.8	1.53	867	0.58	2.35	32.6	56.5	1320
S728586		4.66	18.65	0.16	5.8	0.057	1.61	45.5	19.1	1.41	818	0.53	2.34	45.4	51.7	1440
S728587		4.44	19.05	0.18	6.5	0.051	1.61	48.5	16.8	1.21	881	0.50	2.32	25.9	47.5	1290
S728588		5.12	16.15	0.13	3.7	0.055	1.68	32.1	23.3	2.22	1040	0.76	1.72	15.5	212	950
S728589		5.17	17.65	0.16	4.2	0.062	1.64	44.9	21.0	1.51	878	0.66	2.18	31.1	50.9	1450
S728590		4.73	17.40	0.16	5.2	0.063	1.49	50.7	19.4	1.42	896	0.65	2.26	34.6	54.2	1340
S728591		14.45	20.1	0.07	3.8	0.087	0.41	16.9	19.8	0.24	475	2.29	0.10	14.3	230	430
S728592		4.78	17.10	0.15	4.5	0.057	1.43	41.0	17.7	1.44	874	0.52	2.24	24.6	54.3	1260
S728593		4.76	17.25	0.14	4.9	0.064	1.41	43.3	15.2	1.30	955	0.53	2.19	31.3	39.7	1270
S728594		4.91	16.90	0.16	5.1	0.056	1.46	46.9	16.2	1.37	895	0.49	2.25	39.4	43.6	1340
S728595		4.79	17.85	0.16	4.5	0.057	1.53	41.4	21.1	1.69	812	0.53	2.18	25.5	66.8	1230
S728596		3.96	17.00	0.17	5.8	0.053	1.37	49.3	16.0	1.27	685	0.46	2.18	30.4	45.3	1290
S728597		4.58	16.15	0.14	3.7	0.059	1.28	40.0	16.9	1.83	731	0.43	2.10	22.7	66.6	1090
S728598		4.22	15.70	0.14	4.7	0.051	1.42	36.5	17.3	1.77	941	0.40	2.01	19.7	177.0	1020
S728599		5.17	17.10	0.14	3.9	0.066	1.55	36.6	18.6	2.23	1040	0.52	1.81	17.6	254	910
S728600		5.60	16.45	0.15	3.8	0.054	1.29	32.7	22.9	3.65	1440	0.48	1.60	17.0	289	800
S728601		5.34	18.00	0.16	4.8	0.066	1.60	49.1	21.0	1.50	1040	0.59	2.25	24.2	49.2	1350
S728602		4.23	17.15	0.16	6.2	0.054	1.60	51.5	17.5	1.24	783	0.56	2.26	25.6	55.7	1170
S728603		6.35	20.0	0.13	3.5	0.065	2.06	38.3	30.5	2.05	1380	0.73	1.81	16.2	134.5	1140
S728604		5.31	18.25	0.15	4.5	0.060	1.67	46.7	23.7	1.70	603	0.71	2.03	28.7	84.9	1020
S728605		5.10	17.70	0.14	3.9	0.058	1.59	41.0	24.1	1.96	816	0.59	2.12	32.0	77.6	1270
S728606		5.47	18.25	0.15	3.9	0.057	1.81	41.1	24.9	1.74	1100	0.74	2.00	22.8	75.1	1100
S728607		5.15	18.55	0.14	3.9	0.064	1.54	37.1	22.6	1.85	823	0.39	2.20	24.4	71.1	800
S728608		4.63	17.85	0.14	5.2	0.056	1.49	38.6	18.0	1.37	838	0.49	2.24	29.8	51.2	1070
S728609		5.35	18.40	0.13	4.5	0.060	1.43	34.5	22.5	1.96	832	0.66	2.28	37.4	93.9	1150
S728610		5.84	17.50	0.14	3.8	0.067	1.28	30.7	20.2	2.24	1060	0.50	1.95	17.1	141.0	930
S728611		1.78	13.50	0.11	1.3	0.020	1.22	8.5	7.9	0.58	297	0.20	2.81	2.7	43.2	210
S728612		4.89	19.15	0.17	4.5	0.055	1.61	48.2	23.2	1.59	829	0.73	2.19	42.2	76.7	1400



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728573		12.8	60.1	<0.002	0.01	1.06	18.9	2	1.7	266	1.56	<0.05	10.75	0.681	0.36
S728574		10.0	61.0	<0.002	0.01	0.50	24.1	1	1.4	212	1.06	<0.05	8.17	0.580	0.38
S728575		9.1	43.2	<0.002	<0.01	0.54	26.9	1	1.5	289	1.52	<0.05	7.20	0.800	0.24
S728576		7.7	38.7	<0.002	<0.01	0.57	29.8	1	1.5	237	1.55	<0.05	6.90	0.785	0.23
S728577		11.2	57.6	<0.002	0.01	0.40	22.4	1	1.8	280	1.83	<0.05	9.22	0.848	0.29
S728578		12.8	61.9	<0.002	<0.01	0.47	20.2	1	1.5	286	1.32	<0.05	9.56	0.626	0.35
S728579		12.0	62.4	<0.002	0.01	0.94	18.7	1	1.6	280	1.37	<0.05	9.30	0.660	0.36
S728580		9.8	50.3	<0.002	0.01	0.63	20.0	1	1.5	270	1.58	<0.05	7.66	0.714	0.30
S728581		11.7	61.7	<0.002	0.01	0.34	18.8	1	1.6	257	1.79	<0.05	9.02	0.740	0.31
S728582		12.2	61.7	<0.002	0.01	0.67	20.7	1	1.7	258	1.44	<0.05	9.21	0.668	0.36
S728583		10.9	47.9	<0.002	0.01	0.73	20.3	1	1.9	267	1.99	0.07	7.78	0.812	0.25
S728584		10.9	55.7	<0.002	0.01	0.80	21.5	1	1.6	284	1.47	<0.05	8.89	0.712	0.30
S728585		12.6	55.3	<0.002	<0.01	1.14	22.8	2	1.8	281	1.65	0.05	8.68	0.740	0.32
S728586		12.4	61.4	<0.002	0.01	0.98	18.5	1	1.8	289	1.95	0.05	9.68	0.715	0.34
S728587		13.0	59.6	<0.002	0.01	1.06	18.2	1	1.6	318	1.48	<0.05	9.59	0.616	0.32
S728588		14.2	61.1	<0.002	0.01	2.83	20.2	1	1.4	231	0.87	<0.05	7.14	0.519	0.33
S728589		11.7	61.0	<0.002	0.02	1.48	20.1	1	1.7	273	1.38	<0.05	17.40	0.679	0.31
S728590		12.9	55.5	<0.002	0.01	0.58	18.0	2	1.8	283	1.60	<0.05	8.70	0.737	0.30
S728591		19.8	40.7	<0.002	0.05	0.80	50.5	3	2.5	31.4	1.02	0.10	14.75	0.766	0.24
S728592		11.3	49.0	<0.002	0.01	0.91	19.3	1	1.6	292	1.29	<0.05	7.11	0.692	0.25
S728593		12.0	44.1	<0.002	0.01	0.86	19.0	1	1.7	322	1.35	<0.05	7.78	0.716	0.24
S728594		10.7	47.0	<0.002	0.01	1.04	19.5	1	1.6	316	1.78	<0.05	8.44	0.747	0.24
S728595		11.5	56.1	<0.002	0.01	0.70	19.6	2	1.7	280	1.20	<0.05	8.45	0.623	0.28
S728596		11.2	46.9	0.002	0.01	0.53	17.8	1	1.7	297	1.37	<0.05	9.31	0.667	0.25
S728597		9.0	42.6	<0.002	0.01	0.73	23.5	1	1.5	251	1.13	<0.05	6.76	0.685	0.23
S728598		11.4	49.1	<0.002	0.01	0.56	17.8	1	1.4	311	1.03	<0.05	7.88	0.524	0.26
S728599		10.9	57.2	0.002	0.01	9.71	24.5	1	1.9	260	0.91	0.10	7.80	0.541	0.33
S728600		10.6	46.3	0.003	0.01	4.08	20.3	2	1.6	209	0.96	<0.05	6.40	0.691	0.25
S728601		16.5	55.7	0.002	0.01	1.06	20.3	1	1.6	310	1.21	<0.05	8.98	0.629	0.32
S728602		12.9	54.7	<0.002	0.01	0.68	16.1	1	1.6	326	1.21	<0.05	9.89	0.595	0.28
S728603		15.4	79.8	<0.002	0.02	2.60	21.8	2	1.8	215	0.87	0.05	8.82	0.481	0.45
S728604		13.2	66.0	<0.002	0.02	0.82	18.1	1	1.7	250	1.39	<0.05	9.72	0.628	0.35
S728605		11.6	61.3	<0.002	<0.01	0.62	19.8	1	1.7	282	1.40	<0.05	8.68	0.628	0.35
S728606		13.1	69.0	0.002	0.01	0.71	19.9	1	1.7	263	1.13	<0.05	9.04	0.586	0.39
S728607		11.9	56.0	<0.002	<0.01	0.79	23.7	1	1.7	273	1.25	<0.05	7.64	0.657	0.32
S728608		11.5	50.3	0.002	0.01	0.62	17.6	1	1.6	297	1.29	<0.05	7.80	0.688	0.25
S728609		12.0	44.7	0.002	0.01	0.58	19.9	1	1.7	293	1.64	<0.05	7.57	0.667	0.30
S728610		10.2	46.0	0.003	0.01	1.03	24.8	1	1.7	252	1.04	<0.05	6.19	0.655	0.27
S728611		6.6	44.6	<0.002	0.01	0.08	5.8	1	0.6	386	0.22	<0.05	1.28	0.158	0.23
S728612		13.6	65.3	0.002	0.01	0.48	18.3	1	1.8	280	1.55	<0.05	10.25	0.652	0.35



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728573		147	0.6	23.4	103	181.5
S728574		178	0.8	21.3	115	124.5
S728575		162	0.7	27.0	66	191.0
S728576		172	0.7	26.7	80	161.0
S728577		150	0.8	27.3	82	202
S728578		132	0.8	22.9	81	179.0
S728579		122	4.0	23.0	80	184.5
S728580		125	1.4	22.9	68	181.5
S728581		130	0.7	23.4	79	194.5
S728582		134	1.5	25.5	99	184.5
S728583		130	2.5	31.7	114	184.5
S728584		133	1.0	23.8	80	185.5
S728585		142	4.0	25.5	83	206
S728586		128	1.7	23.6	85	201
S728587		112	2.0	26.6	80	220
S728588		141	1.9	17.0	83	143.5
S728589		147	2.5	23.7	87	170.5
S728590		124	1.1	25.5	82	206
S728591		230	1.5	10.2	43	143.0
S728592		128	1.8	23.9	86	182.5
S728593		129	1.3	23.5	82	191.0
S728594		142	2.5	23.0	75	206
S728595		131	0.9	23.0	88	191.5
S728596		115	0.8	23.0	65	234
S728597		138	1.5	22.1	73	152.0
S728598		109	1.3	21.1	68	189.0
S728599		142	15.5	22.4	78	158.0
S728600		146	1.6	19.8	78	147.0
S728601		146	5.0	24.8	96	204
S728602		109	1.0	23.3	70	253
S728603		155	3.1	22.0	126	138.0
S728604		133	1.1	21.9	92	184.5
S728605		149	1.1	20.4	92	157.5
S728606		143	1.0	20.8	98	161.5
S728607		159	0.9	21.4	94	160.5
S728608		128	0.6	19.9	78	205
S728609		145	4.3	21.2	96	182.5
S728610		164	2.1	24.1	109	151.0
S728611		39	0.2	6.0	20	45.0
S728612		128	1.0	22.7	94	182.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728613		1.39	0.009	0.05	7.39	32.4	580	1.40	0.19	2.24	0.20	88.3	25.9	190	1.55	35.1
S728614		1.40	0.094	0.04	7.63	21.3	620	1.49	0.22	1.70	0.18	81.7	23.8	162	2.01	39.5
S728615		1.34	0.002	0.03	7.36	4.0	550	1.62	0.11	2.01	0.11	105.5	22.5	143	1.69	36.0
S728616		1.54	0.003	0.07	7.14	10.6	570	2.03	0.12	1.96	0.14	87.6	21.7	147	1.73	37.0
S728617		1.37	0.027	0.42	6.99	83.3	480	1.60	0.84	1.89	0.31	75.9	22.4	178	1.37	64.8
S728618		1.40	0.007	0.05	7.44	4.9	530	1.55	0.11	1.88	0.14	82.3	23.6	146	1.82	44.1
S728619		1.27	0.005	0.02	7.28	6.2	460	1.29	0.09	1.61	0.11	62.0	24.8	205	1.67	57.6
S728620		1.21	0.012	0.06	7.11	6.1	530	1.33	0.11	1.73	0.16	74.4	23.2	169	1.80	45.0
S728621		1.24	0.003	0.05	7.53	5.3	490	1.54	0.10	1.91	0.13	81.1	25.6	160	1.72	51.1
S728622		1.35	0.002	0.04	7.13	10.5	520	1.42	0.11	2.00	0.18	86.1	22.1	185	1.43	29.0
S728623		1.50	0.001	0.04	7.07	10.3	510	1.39	0.11	2.00	0.19	90.6	21.8	165	1.46	29.6
S728624		1.41	0.003	0.06	7.30	7.5	590	1.83	0.12	1.95	0.21	91.9	20.9	144	1.85	37.3
S728625		0.97	0.002	0.09	6.52	7.6	270	0.95	0.10	2.87	0.11	38.9	68.4	926	1.96	122.0
S728626		1.20	0.002	0.05	7.12	8.0	490	1.46	0.10	2.07	0.13	81.9	35.1	316	1.68	61.1
S728627		1.41	0.003	0.08	7.42	9.6	490	1.56	0.13	1.97	0.23	70.5	36.2	220	1.89	72.6
S728628		1.34	0.002	0.06	7.51	9.6	460	1.47	0.10	1.91	0.17	70.7	32.5	131	1.34	73.8
S728629		1.08	0.002	0.03	7.13	8.6	400	1.33	0.09	2.16	0.18	66.9	28.8	144	1.03	79.1
S728630		1.17	0.002	0.03	7.39	10.0	470	1.40	0.09	2.13	0.10	70.9	23.4	115	1.05	54.1
S728631		0.08	0.024	0.14	7.93	14.4	180	0.73	0.31	0.18	0.04	35.0	29.0	533	3.63	357
S728632		1.17	0.003	0.10	7.48	24.6	500	1.60	0.11	1.84	0.18	77.5	27.8	134	1.42	83.1
S728633		1.24	0.002	0.02	6.82	4.7	490	1.53	0.08	2.02	0.09	79.3	16.2	77	1.31	28.4
S728634		1.27	0.005	0.03	7.14	5.2	480	1.51	0.09	1.89	0.09	84.7	19.1	97	1.49	38.0
S728635		1.09	0.003	0.05	7.43	20.5	450	1.38	0.10	1.52	0.16	67.1	35.3	153	1.52	71.7
S728636		1.16	0.003	0.05	7.13	7.4	510	1.41	0.10	1.99	0.15	85.8	20.2	105	1.60	43.1
S728637		1.17	0.002	0.09	7.19	5.5	490	1.70	0.11	2.09	0.11	82.6	25.4	225	2.26	76.3
S728638		1.25	0.006	0.07	7.59	5.2	510	1.74	0.10	1.95	0.11	94.1	21.7	84	1.70	58.1
S728639		1.15	0.007	0.08	7.39	4.6	500	1.64	0.09	2.02	0.08	87.9	19.6	83	1.60	45.3
S728640		1.10	0.002	0.08	7.95	7.4	490	1.70	0.10	2.02	0.15	73.1	26.2	104	1.77	84.7
S728641		1.13	0.001	0.05	6.98	5.6	460	1.39	0.09	1.87	0.10	74.5	21.0	99	1.66	53.7
S728642		0.96	0.001	0.03	6.77	4.6	520	1.99	0.10	1.83	0.10	83.0	19.1	107	1.70	34.0
S728643		0.99	0.002	0.02	7.32	6.1	510	1.68	0.08	1.85	0.10	92.3	23.4	119	1.60	46.7
S728644		1.11	0.002	0.06	6.97	4.2	520	1.42	0.10	1.86	0.11	70.8	14.9	80	1.53	44.0
S728645		1.22	0.002	0.12	7.43	14.2	570	1.78	0.12	2.13	0.21	96.6	34.6	105	2.68	91.3
S728646		0.80	0.015	0.07	7.56	19.0	550	1.65	0.18	2.21	0.13	74.3	23.2	133	1.74	45.1
S728647		0.93	0.007	0.06	7.38	36.5	540	1.59	0.16	1.97	0.19	77.4	32.8	167	1.85	61.6
S728648		1.23	0.021	0.07	7.02	31.1	500	1.51	0.16	2.02	0.16	77.9	24.1	154	1.44	48.9
S728649		1.05	<0.001	0.07	6.34	3.3	490	1.40	0.08	1.76	0.12	69.3	12.2	91	1.41	24.8
S728650		1.20	0.001	0.06	6.32	1.4	480	1.38	0.08	1.78	0.12	58.3	10.1	82	1.35	21.7
S728651		0.18	0.002	0.03	5.91	1.1	370	1.04	0.06	1.63	0.04	17.35	5.6	43	0.73	7.9
S728652		1.35	0.004	0.04	6.90	14.5	500	1.61	0.11	1.97	0.21	87.5	22.9	126	1.55	65.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	
S728613		4.48	17.20	0.16	4.5	0.050	1.70	38.8	19.0	1.77	1040	0.55	2.26	23.1	105.0	1030
S728614		4.13	18.15	0.13	4.1	0.053	1.86	36.5	22.4	1.49	565	0.44	2.12	17.6	74.8	740
S728615		4.98	18.95	0.15	4.6	0.063	1.58	43.5	23.0	1.56	847	0.70	2.22	34.2	62.1	1240
S728616		4.61	17.50	0.16	4.9	0.056	1.60	41.7	20.1	1.42	579	0.73	2.15	21.7	61.6	1170
S728617		4.88	16.80	0.14	3.8	0.086	1.43	35.4	19.3	1.73	871	0.90	2.01	26.2	68.9	1070
S728618		5.15	18.80	0.16	4.3	0.059	1.56	39.3	23.1	1.70	861	0.62	2.10	34.8	61.6	1120
S728619		5.50	16.25	0.14	3.2	0.063	1.45	27.5	21.2	2.00	794	0.48	1.88	19.3	82.9	930
S728620		4.77	17.15	0.14	3.8	0.061	1.59	34.8	21.3	1.66	950	0.47	1.95	20.4	69.1	990
S728621		5.56	19.60	0.14	4.5	0.065	1.38	40.1	22.7	1.70	929	0.70	2.00	32.3	58.1	1120
S728622		4.60	17.50	0.13	4.1	0.057	1.44	37.9	20.1	1.55	979	0.60	2.19	31.9	67.1	1190
S728623		4.56	17.85	0.14	4.3	0.063	1.46	40.3	20.2	1.52	912	0.62	2.18	27.4	64.4	1220
S728624		4.65	19.30	0.15	5.3	0.062	1.67	43.3	22.3	1.48	645	0.64	2.19	26.1	64.0	1170
S728625		7.88	18.20	0.13	2.6	0.061	0.77	20.1	23.1	7.57	1120	0.49	1.05	13.4	610	630
S728626		6.06	20.2	0.16	4.7	0.062	1.41	39.3	24.4	2.80	848	0.80	2.06	28.7	180.5	1200
S728627		6.18	20.9	0.12	3.9	0.064	1.40	31.9	27.7	2.38	1180	0.92	1.88	22.8	127.0	1090
S728628		6.00	20.3	0.15	3.9	0.068	1.25	32.2	22.0	1.90	1040	0.66	1.93	20.1	68.0	1040
S728629		6.01	18.50	0.15	3.6	0.084	1.10	30.3	18.4	2.01	1040	0.54	2.03	22.0	67.2	1120
S728630		5.45	19.70	0.13	3.9	0.062	1.26	34.5	19.2	1.73	895	0.67	2.13	23.9	52.5	1110
S728631		13.95	21.0	0.10	3.8	0.089	0.40	16.8	22.0	0.22	450	2.28	0.09	12.9	224	400
S728632		5.58	19.65	0.16	4.1	0.059	1.39	43.7	22.6	1.96	973	0.70	1.91	19.7	71.8	910
S728633		4.17	18.55	0.15	4.6	0.053	1.46	39.4	20.7	1.19	687	0.67	2.26	32.9	33.8	1110
S728634		4.90	18.85	0.15	4.5	0.056	1.48	41.2	22.4	1.47	770	0.65	2.10	28.7	46.2	1070
S728635		6.58	20.3	0.14	3.6	0.076	1.38	31.5	21.8	2.08	931	0.78	1.89	19.2	79.4	920
S728636		4.87	19.25	0.16	5.1	0.057	1.47	43.0	22.4	1.47	825	0.82	2.16	37.2	49.8	1280
S728637		5.55	20.0	0.18	4.5	0.065	1.35	44.5	27.8	2.23	885	1.05	1.88	25.0	115.0	1120
S728638		5.43	20.5	0.17	4.4	0.066	1.49	45.8	24.5	1.48	969	0.73	2.09	34.4	39.6	1260
S728639		5.13	20.1	0.16	5.2	0.066	1.50	43.8	23.1	1.38	830	0.72	2.16	29.8	36.2	1180
S728640		6.21	21.1	0.13	4.5	0.072	1.37	36.4	24.3	1.75	1080	0.78	1.94	26.9	51.6	1240
S728641		5.13	18.60	0.15	4.0	0.064	1.32	33.7	22.7	1.53	860	0.67	1.94	28.4	45.8	1040
S728642		4.72	18.65	0.17	4.2	0.058	1.54	35.6	25.1	1.43	805	0.81	2.08	44.5	49.2	1480
S728643		5.46	19.95	0.15	4.1	0.067	1.44	36.8	26.0	1.66	1030	0.74	2.03	31.4	56.2	1260
S728644		3.76	16.95	0.13	4.4	0.047	1.59	33.8	18.1	1.13	639	0.37	2.09	19.5	35.2	830
S728645		5.50	19.95	0.17	4.4	0.069	1.55	46.1	27.2	1.82	1140	0.64	2.03	34.5	56.1	1530
S728646		5.18	20.6	0.19	3.7	0.059	1.65	36.9	23.7	1.76	821	0.78	2.18	20.9	68.3	1080
S728647		5.36	19.70	0.14	3.9	0.058	1.58	35.6	25.3	1.72	1000	0.83	2.11	21.0	81.6	960
S728648		4.84	18.75	0.15	4.1	0.057	1.59	38.8	21.3	1.59	779	0.70	2.04	21.5	76.1	1020
S728649		3.23	16.40	0.17	4.1	0.049	1.54	33.7	18.3	1.00	399	0.78	2.19	18.9	39.4	980
S728650		2.91	16.50	0.15	3.7	0.046	1.51	28.9	18.8	1.00	363	0.67	2.16	14.8	32.0	760
S728651		1.60	13.40	0.10	1.1	0.015	1.19	7.5	8.1	0.55	261	0.16	2.66	2.4	37.6	190
S728652		4.33	17.75	0.19	4.7	0.054	1.52	40.0	20.4	1.38	778	0.52	2.06	22.0	59.9	1050



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728613		12.5	59.0	0.002	<0.01	0.94	17.8	1	1.7	302	1.15	<0.05	8.67	0.593	1.5
S728614		13.4	67.6	0.002	0.01	1.32	18.3	1	1.7	274	1.01	<0.05	7.97	0.562	1.6
S728615		12.7	60.8	<0.002	0.01	0.40	18.2	1	1.8	269	1.56	<0.05	13.60	0.693	1.9
S728616		12.6	60.8	<0.002	<0.01	0.55	17.0	1	1.6	294	1.13	<0.05	8.73	0.587	1.7
S728617		19.5	51.8	<0.002	0.01	1.53	21.6	1	1.7	259	1.12	0.11	6.55	0.648	1.5
S728618		11.6	62.5	<0.002	0.01	0.53	19.9	1	1.7	258	1.54	<0.05	8.54	0.637	2.3
S728619		8.2	55.3	<0.002	0.01	0.99	24.4	1	1.4	217	1.01	<0.05	5.42	0.633	1.2
S728620		11.2	58.7	0.002	<0.01	0.65	20.4	1	1.6	252	1.01	<0.05	7.22	0.554	1.5
S728621		11.0	55.6	0.003	0.01	0.68	22.1	1	1.8	247	1.48	<0.05	8.05	0.699	1.9
S728622		12.1	54.2	<0.002	0.01	0.70	19.3	1	1.7	285	1.31	<0.05	7.24	0.631	1.7
S728623		11.9	54.6	0.002	0.01	0.67	19.2	1	1.7	282	1.31	<0.05	7.64	0.640	1.8
S728624		14.2	66.0	0.004	0.01	0.61	17.3	1	1.8	314	1.27	<0.05	8.69	0.588	1.9
S728625		7.2	37.1	0.004	0.01	0.63	29.6	1	1.2	123.5	0.68	0.06	4.12	0.543	0.9
S728626		12.0	55.8	0.005	<0.01	0.50	21.3	1	1.8	255	1.41	0.06	7.33	0.646	1.9
S728627		11.6	53.2	0.004	0.01	0.84	22.3	1	1.7	243	1.18	0.07	6.42	0.627	1.5
S728628		10.1	47.1	0.004	0.01	0.88	24.0	1	1.6	257	1.00	0.08	6.47	0.590	1.4
S728629		8.5	41.0	0.005	0.01	0.80	28.4	1	1.6	264	1.20	0.06	5.16	0.698	1.4
S728630		10.3	43.8	0.005	0.01	0.79	21.4	1	1.6	284	1.13	0.14	7.53	0.636	1.5
S728631		19.1	43.1	0.003	0.05	0.84	52.6	3	2.6	32.3	1.04	0.10	14.10	0.732	2.4
S728632		11.5	50.7	0.005	0.01	0.77	21.0	1	1.6	245	0.96	0.15	6.90	0.549	1.6
S728633		12.2	55.7	0.005	<0.01	0.37	15.6	1	1.7	303	1.45	<0.05	7.55	0.587	1.9
S728634		11.8	57.0	0.004	0.01	0.48	17.1	1	1.6	275	1.32	<0.05	7.72	0.600	1.8
S728635		11.2	52.1	0.004	0.01	0.97	26.3	1	1.5	218	0.94	0.11	5.53	0.565	1.4
S728636		12.7	60.2	0.003	0.01	0.53	17.5	1	1.7	289	1.38	0.07	8.22	0.618	2.0
S728637		17.7	62.6	0.005	0.02	0.56	19.3	1	1.7	269	1.23	<0.05	24.9	0.562	2.1
S728638		12.1	59.7	0.004	0.01	0.67	19.5	1	1.9	293	1.36	<0.05	8.59	0.629	1.8
S728639		12.6	60.7	0.004	0.01	0.64	18.6	1	1.8	303	1.33	<0.05	7.74	0.640	1.8
S728640		11.5	56.5	0.003	0.01	0.84	22.9	1	1.7	277	1.22	<0.05	8.07	0.612	1.7
S728641		13.7	54.7	0.004	0.01	0.57	17.9	1	1.6	262	1.33	<0.05	8.05	0.587	1.6
S728642		13.2	65.9	0.002	0.01	0.35	15.3	1	1.8	267	2.37	<0.05	8.14	0.592	2.8
S728643		12.0	59.8	0.004	0.02	0.56	18.6	1	1.7	260	1.33	<0.05	7.07	0.612	1.6
S728644		11.3	54.8	0.003	0.01	0.51	14.8	1	1.5	298	0.94	<0.05	7.15	0.475	1.6
S728645		12.8	70.4	0.005	0.01	0.70	18.8	1	1.8	268	2.01	<0.05	8.21	0.603	2.3
S728646		12.7	70.1	0.004	0.01	0.59	17.4	1	1.7	291	1.07	<0.05	7.53	0.556	1.8
S728647		12.9	64.8	0.002	0.01	0.68	17.8	1	1.6	272	1.12	0.07	8.20	0.561	2.1
S728648		11.9	64.5	0.004	<0.01	0.75	17.3	1	1.6	263	1.08	0.07	7.28	0.563	1.8
S728649		12.5	61.0	0.004	0.01	0.29	13.2	1	1.4	272	1.04	<0.05	7.51	0.498	2.4
S728650		12.5	58.7	0.004	0.01	0.33	13.2	1	1.4	266	0.92	<0.05	6.47	0.493	2.1
S728651		6.2	45.4	0.004	0.01	0.11	5.6	<1	0.5	359	0.20	<0.05	1.08	0.141	0.3
S728652		12.9	56.1	0.003	0.01	0.83	16.6	1	1.6	282	1.03	<0.05	7.42	0.522	1.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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S728613		120	2.6	20.9	74	178.0
S728614		123	2.5	20.1	79	161.5
S728615		131	0.6	20.4	85	188.0
S728616		117	0.7	20.8	80	197.5
S728617		143	1.1	19.5	100	159.0
S728618		141	0.8	20.4	91	179.5
S728619		164	1.3	18.2	86	127.0
S728620		135	1.1	19.5	77	151.5
S728621		154	0.7	23.0	97	184.5
S728622		130	0.9	19.9	82	161.0
S728623		129	0.8	20.3	83	174.5
S728624		121	0.7	22.0	101	207
S728625		194	0.7	18.4	106	100.5
S728626		150	0.5	22.9	94	179.0
S728627		165	0.7	22.2	111	147.5
S728628		165	0.7	22.9	101	149.0
S728629		189	0.6	24.5	97	141.5
S728630		153	0.6	22.2	85	154.0
S728631		221	1.5	9.4	43	139.5
S728632		147	0.7	22.7	101	154.0
S728633		113	0.5	19.1	72	175.0
S728634		130	0.5	19.4	81	175.0
S728635		180	0.5	21.2	101	139.5
S728636		128	0.6	21.7	91	197.0
S728637		138	0.5	22.5	104	182.5
S728638		143	0.6	24.1	99	170.5
S728639		138	0.5	23.3	89	195.0
S728640		165	0.6	24.7	109	173.0
S728641		138	0.6	19.3	91	148.5
S728642		121	0.5	18.1	83	165.0
S728643		143	0.6	20.1	90	160.5
S728644		102	0.8	20.0	61	167.0
S728645		139	0.8	24.9	107	169.0
S728646		130	1.1	20.0	96	144.5
S728647		130	0.7	18.4	105	150.0
S728648		126	1.1	19.9	87	152.5
S728649		95	0.4	17.5	64	150.0
S728650		94	0.4	15.5	62	143.5
S728651		37	0.2	5.6	20	38.9
S728652		113	0.8	21.2	85	179.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728653		1.34	0.026	0.01	6.92	5.7	450	1.36	0.10	2.39	0.11	77.5	19.6	145	1.17	42.8
S728654		1.51	0.019	0.06	6.77	21.9	450	1.37	0.16	2.34	0.17	78.3	22.6	176	1.17	96.8
S728655		1.20	0.007	0.03	7.11	9.5	450	1.37	0.12	2.26	0.16	81.3	19.1	144	1.33	53.4
S728656		1.58	0.031	0.43	6.05	11.1	400	1.35	0.29	1.92	0.28	59.6	12.8	140	1.41	144.0
S728657		1.34	0.002	0.02	7.00	4.5	490	1.58	0.09	2.28	0.12	84.0	18.5	123	1.31	24.8
S728658		1.29	0.003	0.04	6.68	9.9	500	1.50	0.09	2.25	0.12	82.8	15.7	119	1.05	22.5
S728659		1.39	0.003	0.04	6.79	4.6	520	1.42	0.11	2.08	0.15	83.7	15.0	115	1.33	25.4
S728660		1.20	0.002	0.05	6.79	4.9	570	1.51	0.11	2.01	0.10	90.9	12.6	94	1.36	24.8
S728661		1.20	0.006	0.05	6.37	4.4	540	1.39	0.11	2.09	0.11	97.8	12.4	102	1.09	18.7
S728662		1.10	0.017	0.07	6.57	5.4	500	1.31	0.15	2.21	0.13	86.5	14.6	125	1.02	25.5
S728663		1.31	0.011	0.03	6.80	2.9	540	1.49	0.16	2.14	0.13	107.0	14.2	144	1.22	19.0
S728664		1.18	0.028	0.04	6.73	4.1	500	1.63	0.10	2.25	0.14	98.1	18.0	153	1.10	23.5
S728665		1.27	0.030	0.04	6.99	4.1	580	1.47	0.16	1.95	0.13	88.8	13.5	95	1.49	21.7
S728666		1.49	0.077	0.12	6.96	10.3	530	1.74	0.48	2.04	0.27	104.0	18.7	143	1.47	40.8
S728667		1.26	0.378	0.14	7.14	4.4	550	1.62	0.57	2.10	0.38	114.0	16.9	125	1.29	31.6
S728668		1.50	0.002	0.04	6.09	5.6	450	1.51	0.08	2.01	0.10	85.2	15.6	130	1.10	22.9
S728669		1.97	0.014	0.07	7.27	16.8	550	1.57	0.19	2.31	0.23	109.5	30.0	221	1.89	63.1
S728670		1.06	0.003	0.08	6.95	5.3	500	1.71	0.08	2.12	0.25	87.8	33.4	281	1.72	43.5
S728671		0.18	<0.001	0.03	6.04	0.7	390	1.01	0.06	1.67	0.04	19.10	6.0	48	0.80	8.5
S728672		1.36	0.001	0.08	7.19	5.0	510	1.69	0.08	2.06	0.21	79.3	29.1	263	1.86	43.3
S728673		1.13	0.001	0.09	7.08	4.5	510	1.70	0.09	2.03	0.26	84.2	30.3	249	2.00	48.2
S728674		1.12	0.001	0.07	7.03	5.6	510	1.51	0.08	2.05	0.21	79.2	25.8	239	2.04	40.8
S728675		1.23	0.002	0.08	7.09	5.4	510	1.81	0.08	2.05	0.27	90.0	32.9	290	1.91	47.9
S728676		1.09	0.001	0.07	7.26	5.8	520	1.84	0.08	2.09	0.26	89.4	33.7	285	1.87	46.3
S728677		0.88	0.001	0.06	7.08	4.7	510	1.56	0.08	2.16	0.24	86.3	34.5	388	1.63	39.8
S728678		1.13	0.001	0.07	7.06	4.7	500	1.58	0.08	2.11	0.25	86.0	34.1	291	1.75	46.0
S728679		1.26	0.001	0.08	7.24	5.8	520	1.54	0.08	2.23	0.24	85.9	31.0	245	1.90	47.1
S728680		1.18	0.001	0.03	7.07	4.1	490	1.32	0.07	2.04	0.12	76.3	18.8	216	1.49	34.9
S728681		1.13	0.001	0.02	7.30	4.0	510	1.34	0.07	1.97	0.09	78.3	20.6	199	1.55	29.7
S728682		1.04	0.022	0.02	6.51	9.2	390	1.18	0.07	2.64	0.14	74.9	34.2	477	1.08	49.5
S728683		0.99	0.013	0.03	6.73	6.6	410	1.23	0.07	2.35	0.12	76.9	32.3	417	1.38	59.8
S728684		1.17	0.023	0.08	7.17	6.0	530	1.42	0.09	1.92	0.28	79.0	22.0	212	2.07	42.5
S728685		0.98	0.001	0.05	7.16	5.4	490	1.35	0.08	2.16	0.17	78.7	21.4	270	1.71	38.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728653		4.67	17.00	0.17	5.3	0.052	1.37	37.1	17.2	1.57	651	0.49	2.14	27.8	53.8	1100
S728654		4.58	17.50	0.14	4.8	0.055	1.34	38.1	16.8	1.59	719	0.54	2.19	24.5	83.1	1090
S728655		5.00	18.00	0.17	5.4	0.063	1.34	40.4	20.1	1.51	822	0.54	2.25	21.2	52.0	970
S728656		10.70	16.00	0.15	4.1	0.083	1.25	29.9	15.8	1.10	660	2.97	1.63	22.3	55.2	1370
S728657		4.41	18.40	0.17	4.4	0.057	1.50	38.5	18.7	1.43	732	0.44	2.20	43.9	49.2	1050
S728658		3.85	17.00	0.18	5.3	0.051	1.50	39.3	15.4	1.23	648	0.43	2.27	19.6	47.0	1130
S728659		3.87	16.80	0.17	5.5	0.051	1.59	40.7	17.0	1.19	589	0.43	2.20	25.1	41.5	1100
S728660		3.29	17.05	0.15	5.7	0.048	1.70	44.4	17.1	0.98	574	1.01	2.28	20.0	37.6	1020
S728661		3.39	16.25	0.14	6.3	0.050	1.57	47.7	15.4	0.97	618	0.64	2.29	21.8	34.5	1100
S728662		3.61	16.35	0.14	5.1	0.052	1.45	40.0	14.1	1.18	684	0.45	2.25	18.5	41.3	1010
S728663		3.80	17.60	0.15	6.9	0.053	1.56	51.6	16.6	1.08	624	0.45	2.35	31.9	41.1	1150
S728664		4.06	17.80	0.14	5.5	0.051	1.41	46.6	17.0	1.29	721	0.55	2.35	34.9	49.7	1310
S728665		3.55	17.10	0.15	5.4	0.047	1.71	42.4	18.0	1.07	600	0.60	2.30	19.7	35.1	1060
S728666		4.37	18.35	0.14	5.7	0.060	1.57	50.0	18.2	1.40	819	0.70	2.27	27.2	51.9	1190
S728667		4.32	18.50	0.15	6.1	0.057	1.61	55.1	17.4	1.23	816	0.60	2.46	35.1	43.0	1270
S728668		3.57	16.10	0.13	4.7	0.050	1.36	41.5	15.6	1.13	590	0.75	2.11	37.8	44.7	1160
S728669		4.72	19.45	0.15	5.1	0.064	1.57	52.9	24.2	1.74	895	0.58	2.21	32.2	123.5	1240
S728670		6.15	20.0	0.12	4.5	0.070	1.56	40.8	23.0	2.11	1020	1.17	1.87	26.1	125.5	1060
S728671		1.78	14.10	0.08	1.1	0.018	1.22	8.9	8.8	0.53	288	0.24	2.70	2.8	26.0	200
S728672		6.07	19.55	0.12	4.4	0.068	1.64	37.3	23.2	2.04	959	1.13	1.92	23.4	120.5	990
S728673		5.89	20.1	0.13	4.6	0.071	1.63	40.3	23.7	1.99	883	1.14	1.87	24.9	117.5	990
S728674		5.95	19.65	0.13	4.3	0.069	1.56	39.4	24.4	1.97	778	1.15	1.90	23.4	102.5	1010
S728675		6.15	20.5	0.13	4.6	0.073	1.64	42.7	23.3	2.09	867	1.16	1.89	25.7	142.5	1040
S728676		6.40	20.4	0.12	4.7	0.074	1.68	42.0	23.5	2.25	1040	1.22	1.88	25.8	140.0	1070
S728677		6.35	19.30	0.13	4.8	0.072	1.53	40.6	21.2	2.21	1000	1.08	1.86	28.7	146.5	1030
S728678		6.25	19.75	0.12	4.6	0.073	1.61	40.8	22.6	2.09	996	1.07	1.86	25.0	138.0	1000
S728679		6.17	19.95	0.12	4.4	0.071	1.71	39.6	23.0	2.09	1000	1.18	1.94	22.8	113.0	1080
S728680		4.68	17.60	0.11	4.3	0.057	1.59	39.0	20.1	1.56	704	0.99	2.07	23.0	61.8	760
S728681		4.97	19.00	0.11	4.2	0.060	1.68	34.8	22.1	1.63	646	0.94	2.11	20.5	59.5	860
S728682		5.96	16.50	0.12	3.9	0.062	1.14	30.8	18.6	2.44	1020	0.72	1.81	25.4	126.5	840
S728683		6.04	17.10	0.12	4.2	0.071	1.23	34.1	20.1	2.27	984	0.76	1.83	25.8	118.0	850
S728684		4.95	18.10	0.12	4.2	0.061	1.82	38.0	23.4	1.65	546	1.63	1.90	19.6	70.9	950
S728685		5.06	17.85	0.11	4.5	0.063	1.60	39.7	21.8	1.78	721	1.17	1.96	22.4	70.1	880



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728653		10.6	46.1	0.003	<0.01	0.61	18.8	1	1.6	299	1.22	<0.05	7.17	0.627	1.6
S728654		10.4	45.8	0.004	<0.01	0.85	19.2	1	1.7	298	1.16	<0.05	6.73	0.585	1.8
S728655		10.5	51.6	0.005	0.01	0.61	20.3	2	1.9	275	1.14	<0.05	7.08	0.622	1.8
S728656		15.0	45.4	0.003	0.04	0.63	14.8	4	1.8	229	0.89	0.31	6.73	0.472	1.9
S728657		11.4	53.4	0.003	0.01	0.59	17.4	1	1.7	300	1.39	<0.05	8.82	0.601	1.7
S728658		11.3	49.7	0.004	<0.01	0.48	15.6	1	1.6	319	1.05	<0.05	7.26	0.560	1.6
S728659		12.3	53.7	0.005	<0.01	0.46	15.0	1	1.7	313	1.11	<0.05	8.12	0.558	1.7
S728660		15.6	58.0	<0.002	0.01	0.48	13.1	1	1.5	335	1.03	<0.05	9.03	0.507	1.7
S728661		13.5	50.5	<0.002	<0.01	0.33	13.3	1	1.5	324	1.14	<0.05	18.10	0.562	1.9
S728662		11.3	46.7	<0.002	<0.01	0.53	17.2	1	1.5	303	1.00	<0.05	7.45	0.537	1.7
S728663		12.4	53.4	<0.002	0.01	0.34	15.2	1	1.7	320	1.55	<0.05	11.25	0.678	1.9
S728664		11.4	50.5	<0.002	<0.01	0.38	17.0	1	1.7	298	1.87	<0.05	8.42	0.717	2.1
S728665		12.2	60.6	<0.002	0.01	0.31	13.1	1	1.6	314	1.05	<0.05	8.69	0.516	1.7
S728666		14.5	59.0	<0.002	0.01	0.47	18.3	1	2.1	265	1.36	0.06	8.28	0.616	2.3
S728667		36.5	56.4	<0.002	0.01	0.43	16.1	1	2.0	293	1.64	0.07	9.30	0.679	2.4
S728668		10.9	49.1	<0.002	0.01	0.27	15.0	1	1.6	270	1.92	<0.05	7.81	0.681	2.2
S728669		23.8	63.8	<0.002	0.01	0.39	19.4	1	1.9	290	1.54	<0.05	11.00	0.618	2.2
S728670		11.1	60.1	<0.002	<0.01	0.43	21.6	2	1.9	173.0	1.52	<0.05	7.85	0.795	1.7
S728671		6.5	45.5	<0.002	<0.01	0.09	5.7	<1	0.5	362	0.22	<0.05	1.32	0.145	0.3
S728672		11.3	64.5	<0.002	<0.01	0.42	20.6	1	1.8	176.0	1.36	<0.05	7.65	0.759	1.7
S728673		11.7	68.3	<0.002	<0.01	0.43	21.2	1	1.9	179.5	1.49	<0.05	8.41	0.745	1.8
S728674		11.8	67.0	<0.002	0.01	0.42	19.8	1	1.7	186.0	1.39	<0.05	8.33	0.742	2.1
S728675		11.5	65.2	<0.002	<0.01	0.46	21.7	1	1.9	173.0	1.53	<0.05	8.40	0.782	1.8
S728676		11.8	67.2	<0.002	<0.01	0.45	21.4	1	1.9	170.5	1.49	0.05	9.67	0.793	1.6
S728677		10.5	60.6	<0.002	0.01	0.42	21.3	1	1.9	169.0	1.57	<0.05	7.68	0.855	1.9
S728678		10.8	63.3	<0.002	0.01	0.47	21.4	1	1.8	173.0	1.44	<0.05	7.69	0.786	1.7
S728679		11.7	64.8	<0.002	<0.01	0.47	21.0	1	1.8	184.0	1.35	0.05	8.11	0.779	1.5
S728680		10.3	53.1	<0.002	0.01	0.37	17.2	1	1.5	218	1.25	<0.05	7.83	0.708	1.9
S728681		10.5	58.0	<0.002	0.01	0.41	18.3	1	1.5	211	1.21	<0.05	7.14	0.681	1.8
S728682		7.6	39.2	<0.002	0.01	0.55	22.4	1	1.5	195.0	1.43	<0.05	5.19	0.926	1.3
S728683		8.9	44.8	<0.002	0.02	0.44	22.0	1	1.6	187.0	1.47	<0.05	5.68	0.893	1.5
S728684		13.4	68.5	<0.002	0.01	0.55	17.6	1	1.5	204	1.14	<0.05	9.16	0.652	2.3
S728685		11.5	56.1	<0.002	0.01	0.47	19.0	1	1.5	213	1.27	0.05	7.26	0.722	2.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728653		131	0.8	21.9	78	201
S728654		126	2.4	21.7	78	180.0
S728655		126	1.4	24.8	103	204
S728656		130	3.9	18.0	192	153.5
S728657		122	0.7	20.7	73	165.0
S728658		108	0.8	20.4	62	203
S728659		108	1.6	20.3	66	206
S728660		90	0.9	20.3	60	228
S728661		92	1.8	20.9	55	250
S728662		106	2.1	21.5	58	210
S728663		103	1.2	23.9	59	266
S728664		117	1.5	23.3	66	215
S728665		91	8.8	20.9	64	219
S728666		117	110.5	25.6	86	229
S728667		112	4.2	26.1	103	253
S728668		106	1.6	20.5	58	194.5
S728669		125	3.8	23.4	97	207
S728670		160	0.7	26.6	107	186.5
S728671		39	0.2	6.0	20	44.7
S728672		158	0.6	24.2	108	184.0
S728673		154	0.6	25.0	108	186.5
S728674		147	0.6	23.9	107	178.5
S728675		159	0.6	26.0	111	188.0
S728676		163	0.7	26.3	112	196.0
S728677		165	0.6	26.0	110	203
S728678		157	0.6	25.9	109	195.5
S728679		162	0.6	25.4	110	181.5
S728680		135	0.6	22.9	91	175.0
S728681		139	0.6	21.0	80	169.5
S728682		171	0.6	23.1	81	165.0
S728683		163	0.6	23.9	84	176.5
S728684		136	0.6	21.6	105	174.5
S728685		140	0.6	21.6	93	190.0



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143601

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 PUL-31
SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

Page: **1**
Total # Pages: **5 (A - D)**
Plus Appendix Pages
Finalized Date: **20-SEP-2016**
Account: **LZIBAC**

CERTIFICATE VO16143603

Project: QK-2016-TS-005

This report is for 157 Soil samples submitted to our lab in Val d'Or, QC, Canada on 29-AUG-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DRY-21	High Temperature Drying
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31	Pulverize split to 85% <75 um
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728944		1.21	0.001	0.05	7.28	9.0	570	1.24	0.08	2.51	0.12	80.5	21.7	145	1.33	48.3
S728945		1.14	0.010	0.04	6.81	6.0	490	1.20	0.08	2.87	0.11	79.1	25.8	183	1.30	46.5
S728946		1.05	0.004	0.04	7.01	8.2	450	1.02	0.07	3.58	0.11	59.6	30.4	258	1.03	75.8
S728947		1.03	0.002	0.04	7.03	4.0	540	1.34	0.09	2.22	0.13	78.6	19.1	123	1.51	45.9
S728948		1.53	0.001	0.04	7.18	4.3	500	1.04	0.10	2.67	0.11	67.7	25.6	245	1.40	75.5
S728949		1.30	0.002	0.09	7.57	11.8	510	1.46	0.20	1.95	0.19	77.9	38.0	173	1.96	296
S728950		1.17	0.007	0.06	7.06	5.8	410	0.98	0.17	2.83	0.09	58.5	30.4	207	1.23	142.5
S728951		1.07	0.002	0.04	7.05	3.0	460	1.22	0.06	3.10	0.13	70.2	21.6	193	1.05	45.1
S728952		0.93	0.003	0.05	7.38	5.4	520	1.84	0.08	2.44	0.14	78.9	25.8	168	1.88	73.6
S728953		1.41	0.002	0.04	6.83	4.1	510	1.47	0.08	2.28	0.14	85.1	19.6	159	1.36	36.8
S728954		1.09	0.004	0.04	7.05	4.7	520	1.60	0.08	2.31	0.12	100.5	19.7	188	1.62	40.0
S728955		1.81	0.002	0.04	7.28	4.9	480	1.39	0.08	2.90	0.13	72.0	27.1	168	1.44	99.4
S728956		1.35	0.002	0.07	6.97	4.7	500	1.46	0.07	2.43	0.12	89.1	21.3	183	1.49	48.7
S728957		1.54	<0.001	0.06	7.09	4.0	510	1.49	0.07	2.67	0.12	96.6	22.2	161	1.53	56.8
S728958		1.21	0.002	0.05	7.10	5.9	530	1.34	0.08	2.95	0.16	79.9	23.4	130	1.55	92.1
S728959		1.42	0.006	0.05	7.09	4.1	500	1.54	0.09	2.77	0.11	97.4	24.8	138	1.41	59.4
S728960		1.23	0.014	0.05	7.27	4.4	510	1.58	0.09	2.86	0.11	94.4	24.4	148	1.46	60.7
S728961		1.25	0.006	0.05	7.54	4.1	500	1.40	0.08	3.27	0.14	79.0	32.9	171	1.42	147.0
S728962		1.08	0.002	0.06	7.64	3.5	520	1.36	0.08	3.40	0.16	81.5	31.7	130	1.52	114.5
S728963		1.20	0.003	0.04	7.61	4.0	490	1.40	0.08	3.30	0.12	87.1	32.2	188	1.50	105.0
S728964		1.41	0.002	0.03	7.29	6.8	500	1.51	0.11	2.10	0.09	102.0	18.7	91	1.46	33.0
S728965		1.19	0.006	0.17	8.66	14.3	720	1.05	0.15	1.15	0.18	61.4	44.8	160	1.29	150.5
S728966		0.89	0.002	0.04	7.53	8.5	470	1.16	0.08	1.99	0.09	65.8	26.3	106	1.04	61.8
S728967		1.00	0.001	0.04	7.53	5.0	480	1.27	0.08	2.18	0.09	84.3	20.6	95	1.20	38.7
S728968		0.87	0.032	0.08	7.98	9.7	480	1.22	0.09	2.11	0.18	70.7	31.7	109	1.14	74.8
S728969		1.70	0.002	0.04	7.68	6.4	510	1.48	0.10	1.98	0.09	86.9	22.9	105	1.53	49.3
S728970		0.89	0.008	0.14	7.94	66.4	500	1.46	0.15	1.54	0.22	77.7	33.8	140	2.18	99.3
S728971		1.40	0.004	0.10	7.56	39.1	440	1.32	0.12	1.77	0.34	72.1	32.8	147	1.31	90.1
S728972		1.24	0.002	0.08	7.39	6.4	560	1.67	0.11	2.13	0.15	111.0	18.7	100	2.02	36.9
S728973		1.17	0.003	0.11	7.34	16.7	470	1.40	0.12	1.92	0.24	87.2	37.8	379	2.03	73.5
S728974		1.10	0.006	0.08	7.34	9.7	450	1.34	0.10	2.12	0.17	85.9	39.1	441	1.80	62.3
S728975		0.86	0.005	0.07	7.07	16.1	340	0.91	0.14	1.89	0.16	50.1	51.1	661	1.35	78.5
S728976		1.11	0.006	0.12	6.77	25.2	240	0.62	0.16	2.13	0.19	28.8	70.1	923	2.34	135.5
S728977		1.23	<0.001	0.05	5.32	5.5	50	0.31	0.04	4.54	0.08	11.50	89.2	1500	2.69	117.5
S728978		1.11	0.004	0.12	7.01	11.4	390	1.25	0.15	2.38	0.23	69.5	53.5	731	3.42	97.8
S728979		0.99	0.003	0.13	7.04	11.1	430	1.24	0.14	1.81	0.25	84.6	50.4	625	2.40	84.5
S728980		0.06	0.395	0.59	7.69	33.4	2910	3.10	6.16	0.63	0.36	104.5	15.9	21	7.54	1510
S728981		1.02	0.015	0.13	7.20	17.4	450	1.26	0.43	1.90	0.26	83.0	51.3	547	4.69	112.5
S728982		1.05	0.008	0.19	6.60	92.1	230	0.71	1.02	0.86	0.38	51.5	87.9	1180	2.94	197.5
S728983		1.10	0.001	0.11	5.94	7.4	180	0.63	0.10	3.01	0.17	34.6	78.6	1180	2.55	118.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Account: LZIBAC

Project: QK-2016-TS-005

CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728944		4.46	17.00	0.12	5.3	0.046	1.62	38.7	16.3	1.63	724	0.49	2.28	15.4	59.2	1030
S728945		4.88	16.65	0.11	4.8	0.054	1.39	38.6	16.8	1.97	862	0.42	2.14	21.3	65.9	1190
S728946		5.79	16.35	0.11	3.5	0.056	1.17	27.6	14.6	2.83	1040	0.37	2.03	12.6	122.5	1120
S728947		4.25	17.45	0.13	5.2	0.045	1.62	38.6	18.4	1.41	654	0.44	2.23	19.3	54.4	1020
S728948		4.85	16.50	0.11	4.5	0.034	1.48	34.0	17.7	2.01	683	0.37	2.15	12.2	109.0	900
S728949		9.45	20.0	0.11	3.6	0.052	1.52	35.9	25.0	2.06	847	1.25	1.97	21.2	121.0	1180
S728950		7.06	16.60	0.10	3.4	0.045	1.15	29.1	17.9	2.30	875	0.56	1.85	13.8	87.2	990
S728951		5.21	16.30	0.11	3.8	0.060	1.29	33.0	14.5	2.02	921	0.44	2.19	21.5	55.0	1280
S728952		5.82	18.45	0.14	4.1	0.054	1.45	40.6	22.6	2.05	926	0.76	2.01	26.7	66.9	1220
S728953		4.80	17.05	0.13	4.4	0.050	1.42	41.4	16.8	1.57	820	0.61	2.23	29.5	60.5	1270
S728954		4.96	19.00	0.16	4.8	0.058	1.53	51.4	19.8	1.61	808	0.74	2.25	35.9	56.4	1310
S728955		5.90	17.95	0.11	3.9	0.054	1.31	34.0	18.3	1.93	999	0.50	2.06	23.4	57.4	1090
S728956		5.14	18.05	0.11	5.0	0.063	1.45	43.5	18.1	1.69	840	0.64	2.11	38.2	60.3	1220
S728957		5.38	17.70	0.12	4.2	0.056	1.44	46.0	18.6	1.79	905	0.60	2.18	29.9	53.3	1280
S728958		4.96	17.85	0.12	4.4	0.054	1.48	36.8	16.2	1.59	913	0.47	2.16	20.3	43.4	1060
S728959		5.16	19.65	0.15	4.7	0.056	1.40	50.9	20.5	1.76	882	0.51	2.23	34.1	54.5	1250
S728960		5.38	19.30	0.15	4.8	0.058	1.43	46.5	20.9	1.80	918	0.56	2.26	38.7	55.7	1310
S728961		6.20	19.25	0.13	3.6	0.062	1.41	39.0	20.0	2.09	1130	0.46	2.13	20.5	64.6	1100
S728962		6.09	19.55	0.12	4.3	0.066	1.47	38.9	19.6	1.71	1140	0.52	2.19	22.0	55.5	1190
S728963		6.26	20.2	0.14	4.8	0.066	1.36	42.6	19.8	1.96	1020	0.58	2.14	28.2	66.5	1100
S728964		4.73	19.95	0.16	5.2	0.063	1.49	49.8	20.0	1.35	766	0.65	2.22	27.0	35.3	1110
S728965		7.43	21.5	0.12	4.0	0.062	1.25	32.8	29.3	2.49	1250	1.20	1.63	36.4	83.9	870
S728966		5.34	19.85	0.11	3.8	0.061	1.27	28.9	19.8	1.80	910	0.45	2.07	18.4	51.8	880
S728967		4.92	19.90	0.15	5.3	0.061	1.39	39.5	19.7	1.52	775	0.51	2.23	34.9	39.2	1030
S728968		5.74	21.1	0.13	4.4	0.070	1.29	33.2	18.2	1.71	1020	0.67	2.25	15.7	51.6	840
S728969		5.15	20.6	0.13	4.6	0.058	1.46	40.8	21.9	1.62	846	0.58	2.16	28.4	47.6	940
S728970		6.32	22.1	0.12	4.5	0.077	1.62	35.7	24.1	1.89	1250	1.05	1.71	26.9	70.1	1020
S728971		5.89	20.2	0.12	4.3	0.067	1.36	35.4	19.9	1.93	1140	0.73	1.84	26.1	71.6	1110
S728972		4.85	20.9	0.14	5.6	0.061	1.67	53.5	23.0	1.41	600	1.10	2.26	34.9	42.5	1410
S728973		6.57	20.1	0.13	4.5	0.061	1.41	43.7	23.4	3.23	934	1.01	1.79	30.9	207	1130
S728974		6.19	20.2	0.16	4.3	0.063	1.34	42.1	23.8	3.79	757	0.78	1.83	32.0	250	1040
S728975		7.06	17.95	0.09	3.1	0.063	0.94	23.2	19.6	5.58	979	0.50	1.33	15.2	397	660
S728976		8.30	17.20	0.09	2.2	0.065	0.59	12.2	19.7	7.81	1440	0.42	1.00	5.7	581	670
S728977		9.14	13.70	0.05	1.6	0.053	0.16	4.7	20.8	12.75	1440	0.11	0.41	3.7	1075	430
S728978		7.36	18.15	0.11	4.0	0.067	1.18	32.7	22.7	6.26	1120	0.63	1.49	31.6	483	980
S728979		6.88	19.25	0.12	3.8	0.058	1.27	40.7	23.7	5.28	1250	0.65	1.63	26.0	406	1070
S728980		4.18	27.6	0.17	7.5	0.692	2.99	51.6	20.2	0.29	395	3.51	2.50	19.4	10.4	280
S728981		7.53	19.70	0.13	3.9	0.076	1.14	37.0	25.2	4.85	1240	0.57	1.67	35.0	338	1250
S728982		8.58	16.85	0.08	2.6	0.065	0.61	22.9	22.3	8.13	880	0.44	0.81	15.0	734	760
S728983		8.42	14.95	0.07	2.4	0.059	0.52	15.7	14.3	9.95	1540	0.53	0.95	19.6	897	710



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Project: QK-2016-TS-005

CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728944		11.1	51.1	<0.002	0.01	0.46	15.1	1	1.3	355	0.85	<0.05	7.73	0.503	1.6
S728945		10.2	47.0	<0.002	<0.01	0.53	19.0	1	1.4	328	1.21	<0.05	7.23	0.619	1.6
S728946		9.1	38.2	<0.002	<0.01	1.45	23.5	1	1.2	336	0.72	<0.05	4.64	0.568	1.3
S728947		12.1	55.9	<0.002	0.01	0.33	14.9	1	1.4	316	1.02	<0.05	8.56	0.518	1.6
S728948		9.9	48.7	<0.002	0.01	0.45	19.7	1	1.0	315	0.71	<0.05	6.96	0.510	1.3
S728949		11.6	61.3	<0.002	0.04	0.64	21.9	2	1.4	244	1.00	0.12	7.39	0.540	2.1
S728950		7.4	40.2	<0.002	0.02	0.79	23.6	1	1.0	281	0.74	<0.05	4.91	0.548	1.2
S728951		8.8	40.9	<0.002	<0.01	0.54	20.4	1	1.4	326	1.17	<0.05	5.49	0.661	1.3
S728952		10.8	58.8	<0.002	0.01	0.48	21.5	1	1.5	261	1.27	<0.05	7.97	0.644	2.1
S728953		11.8	50.2	<0.002	0.01	0.44	16.5	1	1.5	268	1.51	<0.05	9.00	0.711	1.8
S728954		12.1	58.4	<0.002	<0.01	0.40	17.9	1	1.8	289	1.68	<0.05	9.74	0.753	2.0
S728955		9.3	47.9	<0.002	0.01	0.68	21.5	1	1.5	291	1.23	<0.05	7.22	0.663	1.6
S728956		11.6	53.6	<0.002	0.01	0.45	17.5	1	1.7	276	1.80	<0.05	8.15	0.704	1.9
S728957		11.0	52.9	<0.002	0.01	0.40	18.0	1	1.6	291	1.55	<0.05	8.15	0.727	1.8
S728958		10.8	50.8	<0.002	<0.01	0.79	18.9	1	1.5	349	1.12	<0.05	7.18	0.595	1.6
S728959		11.5	52.3	<0.002	0.01	0.53	20.8	1	1.7	306	1.38	<0.05	8.61	0.665	2.0
S728960		11.0	54.1	<0.002	<0.01	0.48	20.4	1	1.7	313	1.54	<0.05	8.76	0.691	2.3
S728961		9.0	49.7	<0.002	0.01	0.80	23.7	1	1.5	306	1.10	<0.05	6.21	0.693	1.3
S728962		10.6	54.4	<0.002	0.01	0.65	22.1	1	1.6	315	1.11	<0.05	7.32	0.695	1.4
S728963		9.6	50.9	<0.002	0.01	0.70	23.8	1	1.7	296	1.33	<0.05	7.72	0.785	1.5
S728964		13.0	56.2	<0.002	0.01	0.96	16.8	2	1.8	293	1.27	<0.05	8.91	0.692	1.9
S728965		13.6	40.8	<0.002	0.03	1.71	23.1	2	1.3	201	0.85	0.30	6.62	0.478	1.6
S728966		12.1	43.6	0.002	0.01	1.56	20.9	1	1.6	253	0.97	0.05	5.36	0.653	1.4
S728967		11.0	48.2	<0.002	0.01	1.62	18.7	1	1.7	296	1.19	<0.05	10.55	0.713	1.7
S728968		11.5	40.2	<0.002	0.02	1.17	21.4	2	1.5	291	0.91	0.15	6.53	0.664	1.4
S728969		12.2	52.9	<0.002	0.01	0.89	18.1	1	1.7	277	1.16	0.09	8.75	0.673	1.8
S728970		16.5	62.7	<0.002	0.02	1.95	21.4	2	1.8	209	1.08	0.16	8.06	0.573	1.7
S728971		13.2	45.3	<0.002	0.01	1.46	21.3	1	1.6	224	1.33	0.12	6.54	0.650	2.0
S728972		14.9	69.9	<0.002	0.01	0.65	15.7	1	1.8	303	1.52	<0.05	11.00	0.667	2.4
S728973		12.3	61.9	<0.002	0.01	1.01	20.9	1	1.7	205	1.32	0.07	8.59	0.695	1.8
S728974		11.4	57.3	<0.002	0.01	0.92	19.7	1	1.6	218	1.21	0.07	9.25	0.671	2.0
S728975		8.8	35.6	<0.002	0.01	1.36	24.1	1	1.4	139.0	0.74	0.10	4.66	0.666	1.1
S728976		5.6	19.9	<0.002	0.02	1.95	26.3	1	1.0	98.0	0.35	0.18	1.86	0.651	0.6
S728977		2.0	7.8	<0.002	0.01	0.93	25.0	1	0.7	45.5	0.21	<0.05	0.56	0.631	0.2
S728978		10.1	53.3	<0.002	0.01	1.62	21.0	1	1.6	186.0	1.13	0.06	7.09	0.685	1.4
S728979		11.6	48.2	<0.002	0.01	1.40	21.4	1	1.6	200	1.34	0.06	8.07	0.659	1.9
S728980		31.4	143.5	<0.002	0.07	2.28	5.0	3	4.5	167.5	1.40	0.09	15.65	0.128	5.4
S728981		12.0	55.9	<0.002	0.01	1.30	21.8	2	1.6	220	1.26	0.21	7.73	0.685	1.5
S728982		12.0	27.0	<0.002	0.05	3.98	30.4	1	1.2	99.0	0.63	0.33	4.55	0.582	0.8
S728983		5.1	22.0	<0.002	<0.01	1.11	21.6	1	1.0	90.6	0.57	<0.05	3.01	0.643	0.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728944		120	0.8	18.5	70	200
S728945		144	0.8	19.5	76	178.5
S728946		171	1.0	19.5	83	133.0
S728947		114	0.8	18.5	66	188.5
S728948		141	1.2	19.2	58	166.5
S728949		191	1.9	20.0	99	144.0
S728950		190	1.7	19.0	68	125.0
S728951		152	0.9	20.0	79	142.0
S728952		157	0.9	20.7	101	156.0
S728953		129	0.8	20.6	76	167.5
S728954		138	0.9	23.3	84	189.0
S728955		169	0.9	20.6	91	146.5
S728956		143	0.9	21.0	84	183.0
S728957		152	0.8	20.8	90	166.0
S728958		146	8.7	20.5	78	162.5
S728959		146	0.9	22.4	82	184.0
S728960		146	0.9	22.5	84	186.0
S728961		177	7.2	21.1	97	138.5
S728962		173	1.0	23.5	98	162.0
S728963		181	1.0	24.1	94	180.0
S728964		129	0.8	23.2	79	198.0
S728965		195	0.7	20.7	115	148.0
S728966		155	0.9	20.7	81	141.0
S728967		144	0.8	22.1	74	195.5
S728968		164	0.8	23.6	84	154.0
S728969		144	0.8	23.0	85	180.0
S728970		164	0.8	22.3	131	169.5
S728971		155	0.8	23.9	130	164.5
S728972		122	0.8	23.8	98	205
S728973		164	0.8	23.1	121	171.0
S728974		163	0.8	21.9	108	159.5
S728975		188	0.8	19.7	115	115.5
S728976		231	1.0	18.4	113	84.6
S728977		225	0.3	15.4	87	53.2
S728978		187	0.8	21.1	117	159.0
S728979		176	1.0	21.1	113	144.5
S728980		10	3.1	17.5	143	270
S728981		194	0.8	22.2	125	160.5
S728982		228	1.0	18.5	138	98.9
S728983		195	0.6	19.9	96	93.1



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S728984		1.03	0.001	0.16	7.05	18.9	450	1.25	0.36	2.32	0.33	74.5	45.7	551	1.88	72.0
S728985		1.05	0.005	0.16	8.52	18.0	600	1.25	0.15	1.60	0.19	67.5	30.8	171	2.13	105.5
S728986		1.18	0.002	0.04	7.87	10.5	560	1.18	0.08	1.77	0.10	64.5	24.5	110	1.22	41.0
S728987		1.05	0.001	0.05	7.97	9.0	560	1.09	0.09	1.68	0.14	71.0	25.5	109	0.98	55.1
S728988		0.95	0.002	0.08	7.31	6.8	590	1.45	0.11	1.87	0.08	86.2	18.3	71	1.70	39.4
S728989		1.18	0.003	0.07	7.62	9.4	530	1.35	0.10	1.79	0.11	80.5	21.8	94	1.79	45.7
S728990		0.84	0.003	0.05	5.69	8.3	170	0.55	0.03	4.04	0.11	39.2	64.3	949	0.54	84.0
S728991		0.82	0.004	0.04	7.89	15.6	460	1.12	0.10	1.63	0.10	76.7	29.1	145	1.14	87.5
S728992		1.03	0.003	0.07	7.53	13.8	600	1.24	0.12	1.90	0.17	83.4	18.0	96	1.26	34.8
S728993		1.01	0.001	0.04	7.71	9.8	500	1.32	0.08	2.03	0.10	80.3	23.8	114	1.23	52.2
S728994		0.90	0.007	0.06	7.29	10.5	590	1.10	0.09	2.02	0.18	86.0	19.9	108	1.02	31.7
S728995		1.16	0.006	0.04	7.26	9.7	470	1.23	0.09	1.62	0.18	65.3	26.9	128	1.35	61.0
S728996		1.10	0.053	0.05	6.96	6.5	430	1.28	0.09	2.71	0.24	69.7	24.5	116	0.95	62.3
S728997		1.16	0.004	0.05	7.50	5.2	430	1.25	0.11	2.86	0.16	72.1	23.7	126	1.13	50.7
S728998		1.00	0.001	0.05	7.49	7.0	430	1.23	0.14	2.69	0.11	65.1	26.2	144	1.36	70.1
S728999		1.36	0.003	0.05	7.51	5.1	490	1.42	0.11	2.58	0.15	75.8	26.3	122	1.50	52.3
S729000		0.18	0.001	0.02	6.24	0.8	400	0.98	0.05	1.78	0.04	19.75	5.8	44	0.78	7.6
S729001		1.18	0.003	0.03	7.59	18.8	430	1.40	0.12	2.92	0.12	62.3	22.9	131	1.10	55.4
S729002		1.00	0.009	0.04	7.54	22.0	440	1.34	0.11	2.76	0.10	67.1	24.8	134	1.21	54.9
S729003		1.03	0.010	0.10	7.12	44.7	480	1.29	0.21	2.30	0.21	63.5	26.9	148	1.41	106.5
S729004		1.13	0.006	0.05	7.44	40.9	450	1.30	0.28	2.80	0.17	73.8	24.1	133	1.03	85.6
S729005		1.30	0.007	0.07	7.44	45.1	440	1.38	0.38	2.72	0.19	68.8	26.8	152	1.18	80.1
S729006		1.19	0.023	0.03	6.91	10.1	450	1.25	0.10	2.65	0.12	80.1	18.1	120	0.99	51.7
S729007		1.22	0.005	0.03	7.58	6.1	430	1.33	0.12	2.87	0.16	64.2	24.9	128	1.18	60.9
S729008		1.44	0.002	0.02	7.56	4.4	490	1.42	0.11	2.56	0.12	72.1	21.3	110	1.38	38.8
S729009		1.12	0.003	0.01	7.54	5.4	370	1.12	0.12	3.31	0.11	56.4	25.3	107	0.77	46.7
S729010		1.16	0.005	0.03	7.54	5.2	440	1.61	0.11	2.99	0.14	67.5	21.6	108	1.05	54.4
S729011		1.00	0.123	0.06	7.83	6.2	490	1.41	0.12	2.88	0.13	74.2	23.6	109	1.18	51.5
S729012		1.00	0.002	0.03	7.50	6.1	400	1.20	0.12	3.07	0.16	63.3	25.3	117	0.99	50.3
S729013		0.96	0.003	0.03	7.38	11.5	490	1.43	0.14	2.47	0.09	78.4	18.2	117	1.29	47.9
S729014		0.82	0.005	0.03	7.54	23.8	470	1.42	0.18	2.68	0.13	76.8	21.6	120	1.14	61.6
S729015		1.04	0.006	0.02	7.35	11.9	390	1.17	0.15	3.09	0.14	65.0	21.7	115	0.87	48.1
S729016		0.99	0.002	0.03	7.30	8.8	470	1.42	0.10	2.61	0.13	70.4	19.7	111	1.18	44.6
S729017		0.82	0.098	0.03	7.04	14.8	430	1.27	0.10	2.50	0.11	69.4	20.9	147	1.12	46.4
S729018		1.14	0.022	0.06	7.14	42.7	460	1.35	0.36	2.54	0.21	71.5	21.8	114	1.16	51.4
S729019		0.91	0.010	0.04	7.38	34.1	430	1.20	0.22	2.92	0.16	70.1	22.2	114	0.98	64.0
S729020		0.07	0.003	0.03	9.66	10.8	160	0.96	0.33	0.33	0.03	52.9	7.8	113	6.70	32.9
S729021		1.10	0.040	0.04	7.69	42.8	430	1.41	0.20	2.94	0.10	67.7	25.3	129	1.09	72.8
S729022		0.91	0.009	0.03	7.46	22.5	500	1.35	0.09	2.69	0.13	75.1	20.8	101	1.12	38.1
S729023		1.01	0.003	0.07	7.63	9.1	460	1.31	0.10	2.72	0.08	68.6	21.0	122	1.17	49.1



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S728984		7.33	17.95	0.10	4.3	0.061	1.21	35.3	19.4	4.61	945	0.85	1.60	19.5	367	930
S728985		6.67	21.4	0.12	4.1	0.068	1.52	39.1	24.3	2.28	1040	0.87	1.73	18.0	83.9	1090
S728986		5.49	19.80	0.11	4.1	0.058	1.37	29.5	19.6	1.70	886	0.68	2.02	24.6	52.0	920
S728987		5.47	20.6	0.12	4.2	0.061	1.32	32.9	19.3	1.78	918	0.57	1.99	13.1	51.2	890
S728988		4.08	18.35	0.15	4.9	0.053	1.77	41.7	19.3	1.19	741	0.53	2.24	20.0	30.6	1150
S728989		5.01	19.75	0.15	4.9	0.061	1.58	38.6	20.6	1.47	865	0.74	2.10	26.9	39.9	940
S728990		7.16	14.60	0.07	2.7	0.059	0.48	17.4	17.2	8.57	1140	0.27	0.90	11.9	719	730
S728991		6.53	18.50	0.12	3.9	0.059	1.52	35.7	16.5	1.97	937	0.91	2.02	18.5	60.8	980
S728992		4.58	18.45	0.13	5.2	0.054	1.71	40.8	15.4	1.33	741	0.92	2.27	33.2	35.8	1020
S728993		5.36	19.05	0.13	4.3	0.065	1.42	36.2	16.7	1.64	855	0.75	2.17	22.4	44.6	1150
S728994		4.18	17.60	0.14	5.1	0.043	1.61	38.5	13.4	1.23	938	0.55	2.27	15.9	44.1	1010
S728995		5.35	18.00	0.19	3.8	0.066	1.40	32.6	21.6	1.74	1060	0.66	1.81	21.2	61.1	850
S728996		4.50	17.85	0.18	3.7	0.055	1.23	33.2	14.9	1.59	920	0.70	2.21	19.4	49.9	1120
S728997		5.21	19.10	0.19	3.7	0.068	1.16	35.4	16.9	1.89	948	0.60	2.17	19.0	55.1	980
S728998		5.53	19.20	0.17	3.3	0.060	1.07	31.8	18.7	2.00	982	0.73	2.03	17.2	63.6	890
S728999		5.16	20.0	0.18	3.8	0.067	1.40	35.0	20.5	1.88	927	0.67	2.19	20.8	61.5	1020
S729000		1.68	14.00	0.12	1.2	0.019	1.26	9.0	9.1	0.54	282	0.19	2.81	2.9	18.9	220
S729001		5.29	19.35	0.18	3.7	0.064	1.15	32.2	17.8	1.96	929	0.53	2.21	21.1	58.9	880
S729002		5.30	19.00	0.17	3.6	0.064	1.17	33.4	18.2	2.04	925	0.55	2.14	18.5	62.0	940
S729003		5.19	17.85	0.18	3.5	0.058	1.35	31.8	18.9	1.87	936	0.70	2.09	18.1	82.2	1030
S729004		5.26	19.50	0.19	3.7	0.065	1.24	36.9	17.0	1.84	825	0.53	2.24	21.5	63.6	1050
S729005		5.33	19.10	0.19	3.9	0.072	1.24	34.6	17.9	1.83	905	0.60	2.17	19.9	79.0	950
S729006		4.43	18.20	0.21	4.6	0.063	1.30	39.5	16.1	1.46	753	0.55	2.25	18.8	41.5	1010
S729007		5.48	18.85	0.16	3.9	0.063	1.15	31.4	17.2	1.93	968	0.60	2.14	18.3	53.0	970
S729008		4.92	19.20	0.22	4.0	0.061	1.37	35.5	19.5	1.74	918	0.62	2.24	24.1	48.4	1010
S729009		5.55	19.00	0.17	3.7	0.071	0.94	26.0	14.0	1.96	1100	0.48	2.18	20.0	44.3	870
S729010		5.07	19.15	0.18	3.6	0.063	1.21	32.8	16.4	1.82	876	0.50	2.28	20.6	46.0	970
S729011		5.14	19.70	0.20	4.0	0.059	1.38	35.9	18.3	1.76	908	0.58	2.38	23.1	48.2	1100
S729012		5.42	18.50	0.18	3.4	0.070	1.07	28.6	15.8	1.93	1050	0.53	2.16	20.1	47.7	1010
S729013		4.62	18.70	0.17	4.0	0.061	1.40	37.9	18.9	1.60	703	0.55	2.25	26.2	46.6	840
S729014		5.01	19.00	0.19	4.5	0.064	1.34	35.9	18.0	1.68	860	0.57	2.30	20.9	50.5	1050
S729015		5.22	18.35	0.19	3.9	0.062	1.06	31.3	15.0	1.81	957	0.51	2.19	22.0	46.5	980
S729016		4.71	18.70	0.18	4.0	0.061	1.34	33.7	17.6	1.63	815	0.53	2.29	23.1	49.6	1030
S729017		4.90	17.45	0.18	3.9	0.062	1.28	33.8	17.5	1.77	789	0.51	2.14	18.8	69.1	950
S729018		4.80	18.05	0.21	4.1	0.062	1.28	32.5	17.7	1.55	816	0.48	2.24	20.6	58.3	990
S729019		5.22	18.25	0.17	4.3	0.066	1.19	33.5	16.0	1.72	903	0.60	2.23	23.4	50.1	1100
S729020		6.71	25.9	0.16	4.6	0.093	0.50	25.1	37.2	0.34	507	2.64	0.14	23.9	43.9	510
S729021		5.69	19.35	0.19	4.0	0.070	1.15	31.4	17.6	1.98	1030	0.57	2.19	19.5	58.7	990
S729022		4.61	19.25	0.21	4.2	0.066	1.41	37.0	17.3	1.55	789	0.56	2.41	24.7	44.5	1060
S729023		5.19	18.45	0.19	3.5	0.065	1.31	32.0	17.9	1.80	900	0.56	2.24	20.8	48.0	1000



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S728984		13.1	47.2	<0.002	0.01	2.00	18.0	1	1.5	196.5	0.97	0.13	7.54	0.630	1.5
S728985		13.4	57.7	<0.002	0.03	1.88	20.6	1	1.7	216	0.95	0.18	7.78	0.580	1.9
S728986		10.7	44.0	<0.002	0.01	1.60	17.7	1	1.6	253	0.95	0.11	6.04	0.621	1.5
S728987		10.2	39.8	<0.002	0.01	1.36	19.1	1	1.6	252	0.74	0.09	5.82	0.572	1.4
S728988		15.5	60.6	<0.002	0.01	0.64	12.5	1	1.6	338	1.03	0.05	8.60	0.516	1.6
S728989		12.9	57.0	<0.002	0.01	0.91	15.5	1	1.7	279	1.17	0.05	8.92	0.619	1.8
S728990		4.1	16.8	<0.002	<0.01	1.56	20.0	1	1.1	113.0	0.60	0.05	2.95	0.729	0.8
S728991		10.4	45.9	<0.002	0.02	1.28	18.8	1	1.6	240	0.95	0.09	6.85	0.701	1.5
S728992		18.6	53.3	<0.002	0.01	1.03	13.4	2	1.6	310	2.03	0.31	8.79	0.544	3.6
S728993		12.4	47.1	<0.002	0.01	0.93	17.6	1	1.7	282	1.14	0.14	6.75	0.643	1.7
S728994		12.5	45.9	<0.002	0.01	1.36	13.7	1	1.6	330	0.85	0.09	7.86	0.561	1.5
S728995		10.3	46.6	<0.002	0.01	1.07	26.5	1	1.4	227	1.12	0.07	6.30	0.525	1.3
S728996		10.0	41.7	<0.002	<0.01	0.57	20.8	1	1.5	325	0.98	<0.05	5.49	0.601	1.7
S728997		9.5	42.5	<0.002	0.01	0.68	22.5	1	1.6	319	0.95	<0.05	6.52	0.639	1.4
S728998		9.8	39.0	<0.002	0.01	0.69	22.2	1	1.5	301	0.89	0.06	5.95	0.595	1.4
S728999		11.4	54.6	<0.002	<0.01	0.54	21.5	1	1.6	309	1.16	0.05	7.43	0.573	1.9
S729000		6.5	45.8	<0.002	<0.01	0.10	6.1	<1	0.5	379	0.20	<0.05	1.28	0.151	0.3
S729001		9.2	41.7	<0.002	0.01	0.63	23.3	1	1.5	321	1.07	<0.05	6.07	0.645	1.6
S729002		9.4	43.1	<0.002	0.01	0.65	22.2	1	1.5	308	0.95	<0.05	6.14	0.622	1.6
S729003		11.5	50.9	<0.002	0.01	0.81	20.3	1	1.4	290	0.91	0.06	6.10	0.544	1.6
S729004		10.7	43.9	<0.002	<0.01	0.71	23.0	1	1.6	337	1.05	0.07	6.31	0.653	1.5
S729005		10.2	45.9	<0.002	0.01	1.55	24.1	1	1.6	316	0.94	0.06	8.19	0.647	1.4
S729006		10.9	45.5	<0.002	<0.01	0.43	20.1	1	1.5	331	0.98	<0.05	7.44	0.640	1.6
S729007		9.7	41.9	<0.002	0.01	0.61	22.1	1	1.5	309	0.97	0.05	5.64	0.656	1.4
S729008		11.0	52.9	<0.002	0.01	0.48	20.3	1	1.6	315	1.17	<0.05	6.90	0.613	1.8
S729009		8.0	31.5	<0.002	0.01	0.71	25.2	1	1.6	328	1.04	0.05	4.56	0.723	1.4
S729010		9.2	41.0	<0.002	<0.01	0.55	22.6	1	1.5	339	0.97	<0.05	5.43	0.662	1.4
S729011		10.9	49.0	<0.002	0.01	0.52	21.7	1	1.6	345	1.09	0.05	6.34	0.649	1.6
S729012		9.1	37.7	<0.002	0.01	0.64	22.9	1	1.5	321	0.99	<0.05	4.82	0.681	1.2
S729013		11.3	49.6	<0.002	0.01	0.41	18.6	1	1.5	324	1.15	0.06	7.35	0.615	1.7
S729014		11.3	48.0	<0.002	0.01	0.54	20.6	1	1.5	332	1.08	<0.05	10.40	0.649	1.6
S729015		9.3	36.6	<0.002	0.01	0.66	22.8	1	1.5	330	1.49	0.05	8.71	0.694	1.8
S729016		10.3	48.0	<0.002	0.01	0.52	19.5	1	1.5	326	1.12	<0.05	6.30	0.603	1.7
S729017		10.3	46.5	<0.002	0.01	0.74	20.3	1	1.4	297	1.01	<0.05	6.03	0.632	1.4
S729018		17.4	45.0	<0.002	0.01	0.66	19.2	1	1.5	326	0.98	<0.05	9.13	0.612	1.5
S729019		10.4	41.9	<0.002	0.01	0.62	21.9	1	1.5	334	1.80	0.06	5.91	0.679	1.9
S729020		23.9	62.5	<0.002	0.05	0.69	15.2	4	4.1	51.3	1.67	<0.05	17.15	1.050	2.8
S729021		9.6	41.1	<0.002	0.01	0.63	22.8	1	1.6	323	1.15	0.06	5.37	0.686	1.5
S729022		10.6	50.2	<0.002	<0.01	0.49	20.4	1	1.6	342	1.17	0.05	7.05	0.630	1.8
S729023		9.9	46.6	<0.002	0.01	0.52	20.6	1	1.5	328	1.01	<0.05	6.08	0.646	1.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: TRUE NORTH NICKEL INC,
 220 BAY STREET, SUITE 1200
 TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S728984		163	0.7	20.2	122	160.0
S728985		177	1.1	24.1	144	153.5
S728986		149	0.9	18.0	93	155.0
S728987		154	0.8	20.7	94	160.0
S728988		102	0.7	18.5	72	178.5
S728989		128	0.7	19.4	91	184.0
S728990		184	0.6	19.3	85	102.0
S728991		180	0.8	20.5	87	151.5
S728992		109	0.7	19.3	84	195.0
S728993		145	0.7	20.0	89	160.5
S728994		114	1.0	18.6	70	188.5
S728995		167	0.7	20.8	91	145.0
S728996		126	0.6	22.5	87	147.0
S728997		143	0.8	22.2	96	141.0
S728998		145	0.8	21.0	107	123.0
S728999		139	0.7	21.8	98	141.0
S729000		39	0.2	6.1	21	45.2
S729001		143	0.7	22.4	94	141.0
S729002		141	0.7	21.7	98	141.5
S729003		124	0.7	20.6	120	137.0
S729004		137	1.0	23.6	100	143.5
S729005		143	1.0	23.9	107	152.5
S729006		124	0.6	22.2	76	180.5
S729007		149	0.7	22.3	102	146.0
S729008		132	0.7	21.1	89	154.0
S729009		156	0.8	23.8	97	140.0
S729010		144	0.7	22.8	95	142.0
S729011		139	0.7	22.7	91	156.0
S729012		148	0.7	22.1	101	131.5
S729013		124	3.9	19.8	82	159.0
S729014		134	1.0	21.3	87	173.5
S729015		147	1.0	22.6	90	149.5
S729016		128	0.6	20.1	83	154.0
S729017		130	0.6	20.4	83	147.0
S729018		124	0.6	20.0	105	159.5
S729019		140	0.7	22.1	94	162.0
S729020		161	2.3	12.8	47	176.0
S729021		154	1.2	22.8	99	154.0
S729022		125	0.7	22.0	78	159.5
S729023		138	0.6	20.6	89	141.5



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S729024		1.01	0.003	0.02	7.40	11.0	480	1.36	0.10	2.42	0.13	69.5	21.6	118	1.45	48.1
S729025		1.41	0.001	0.06	7.53	8.9	540	1.59	0.10	2.32	0.19	90.7	24.0	125	1.85	63.7
S729026		1.45	0.001	0.08	7.54	6.8	540	1.58	0.10	2.38	0.20	84.6	21.8	115	1.79	61.1
S729027		1.46	0.002	0.05	7.80	5.3	550	1.53	0.09	2.56	0.14	80.6	21.0	112	1.53	67.7
S729028		0.98	0.004	0.11	7.82	14.6	460	1.26	0.12	2.94	0.26	66.6	31.2	123	1.30	113.0
S729029		1.12	0.002	0.02	7.39	2.7	520	1.48	0.08	2.90	0.09	105.0	16.8	99	1.21	26.6
S729030		1.09	0.004	0.06	7.74	5.7	580	1.65	0.10	2.36	0.15	86.9	22.4	112	2.01	62.2
S729031		0.94	0.001	0.06	7.47	5.7	550	1.66	0.08	2.70	0.14	88.6	20.4	88	1.45	41.5
S729032		1.15	0.001	0.04	7.36	5.0	530	1.55	0.08	2.37	0.16	90.3	19.8	101	1.49	40.5
S729033		1.30	0.002	0.06	7.42	20.8	540	1.62	0.09	2.28	0.13	76.4	20.5	111	1.38	52.3
S729034		1.21	0.026	0.08	7.67	231	460	1.46	0.24	2.76	0.13	82.4	29.0	107	1.35	150.5
S729035		1.44	0.008	0.05	7.71	30.9	570	1.71	0.12	2.26	0.10	87.5	19.7	105	1.57	59.4
S729036		1.35	0.005	0.01	7.05	8.5	500	1.40	0.09	2.25	0.06	72.7	15.4	108	1.40	26.9
S729037		1.32	0.004	0.07	6.72	16.8	480	1.39	0.12	2.15	0.14	71.2	16.8	101	1.41	41.3
S729038		1.42	0.005	0.05	7.19	20.1	520	1.30	0.10	2.36	0.11	70.7	20.7	141	1.45	54.1
S729039		1.19	0.002	0.04	6.98	7.7	510	1.38	0.10	2.41	0.21	83.3	18.9	138	1.49	46.9
S729040		0.18	<0.001	0.04	6.48	1.1	420	1.08	0.08	1.86	0.03	20.5	6.1	45	0.83	7.5
S729041		1.09	0.005	0.11	7.47	72.8	540	1.49	0.11	2.33	0.19	86.6	25.5	127	1.61	107.0
S729042		1.23	0.003	0.03	7.18	17.6	520	1.59	0.09	2.12	0.10	71.0	19.0	121	1.60	48.2
S729043		1.21	0.003	0.05	7.51	13.3	570	1.61	0.09	2.03	0.08	77.2	20.5	110	1.71	61.5
S729044		1.59	0.217	0.16	7.83	195.0	590	1.74	0.32	2.24	0.20	90.8	31.0	115	2.10	208
S729045		1.42	0.002	0.04	7.33	5.7	510	1.67	0.10	2.62	0.09	86.4	20.3	120	1.18	36.5
S729046		1.17	0.020	0.04	7.41	7.5	350	1.04	0.13	3.33	0.11	59.1	26.2	155	0.84	55.0
S729047		0.88	0.002	0.04	7.71	5.7	460	1.38	0.12	3.17	0.12	80.1	26.2	130	1.26	49.3
S729048		0.95	0.003	0.06	7.77	8.0	430	1.33	0.13	2.76	0.10	58.8	29.4	150	1.30	89.4
S729049		1.09	0.002	0.07	7.73	9.8	460	1.44	0.12	2.77	0.12	68.8	29.2	147	1.36	101.0
S729050		1.74	0.002	0.04	7.79	5.5	550	1.60	0.11	2.46	0.14	88.0	22.6	120	1.76	67.7
S729051		0.94	0.022	0.12	7.72	64.2	420	1.32	0.21	2.94	0.15	76.7	35.3	150	1.58	154.5
S729052		0.73	0.025	0.24	7.36	153.0	350	1.08	0.31	3.34	0.13	60.5	42.8	196	1.07	155.0
S729053		1.01	0.031	0.08	7.26	98.4	310	1.05	0.25	3.69	0.14	52.3	44.6	238	0.91	113.0
S729054		1.00	0.007	0.05	7.54	47.5	400	1.28	0.18	2.78	0.16	59.2	32.4	136	1.22	115.0
S729055		1.13	0.008	0.08	7.89	30.5	550	1.56	0.14	2.46	0.13	82.9	31.5	179	1.81	79.3
S729056		1.06	0.010	0.08	7.58	20.2	540	1.58	0.11	2.38	0.21	87.8	26.8	124	1.74	64.8
S729057		1.52	0.016	0.06	7.44	46.8	520	1.51	0.12	2.23	0.12	80.0	24.3	125	1.77	79.4
S729058		0.95	0.003	0.07	7.36	27.4	530	1.55	0.12	2.33	0.10	81.1	28.6	116	1.78	106.5
S729059		0.97	0.032	0.10	7.66	427	540	1.60	0.14	2.49	0.14	92.1	40.7	98	1.73	120.5
S729060		0.88	0.029	0.08	7.57	463	540	1.53	0.16	2.37	0.13	88.2	45.0	98	1.78	133.0
S729061		1.11	0.006	0.05	7.39	35.6	550	1.49	0.11	2.13	0.08	82.1	21.5	97	1.79	60.7
S729062		1.17	0.004	0.03	7.52	23.3	550	1.65	0.10	2.21	0.09	92.5	22.9	100	1.84	71.6
S729063		0.86	0.007	0.07	7.61	26.7	530	1.55	0.12	2.45	0.15	78.5	23.3	100	1.57	82.0



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S729024		4.98	18.90	0.20	4.0	0.055	1.38	34.1	21.4	1.71	876	0.78	2.14	24.1	53.7	1020
S729025		5.13	19.65	0.22	4.1	0.060	1.61	44.7	23.4	1.73	843	0.86	2.20	22.5	62.8	1040
S729026		5.02	19.70	0.21	4.2	0.060	1.65	41.6	22.8	1.69	828	0.94	2.21	21.8	57.9	1130
S729027		4.88	19.10	0.23	4.1	0.059	1.54	38.6	21.5	1.68	810	0.66	2.39	23.8	49.5	1150
S729028		5.77	20.4	0.20	3.2	0.071	1.27	33.5	19.6	2.15	1080	0.56	2.19	20.2	60.1	1150
S729029		4.59	19.60	0.25	5.6	0.061	1.45	54.3	18.7	1.49	773	0.51	2.46	29.3	37.9	1370
S729030		5.20	20.1	0.23	4.0	0.056	1.71	45.9	25.4	1.81	847	0.78	2.25	27.4	58.1	1210
S729031		4.56	20.1	0.22	4.5	0.064	1.52	41.5	21.6	1.52	827	0.51	2.47	27.2	44.0	1380
S729032		4.43	19.80	0.23	4.2	0.060	1.53	42.7	22.0	1.50	681	0.57	2.38	23.6	50.2	1130
S729033		4.55	18.55	0.22	3.8	0.061	1.56	35.9	20.7	1.54	758	0.56	2.35	25.7	51.0	1050
S729034		5.71	19.60	0.20	3.9	0.068	1.29	31.9	19.7	1.73	972	0.51	2.27	22.9	50.8	930
S729035		4.59	20.2	0.20	5.0	0.060	1.65	41.2	22.1	1.54	671	0.59	2.38	25.7	51.5	1040
S729036		4.26	17.95	0.19	4.7	0.057	1.45	32.7	19.6	1.36	596	0.48	2.26	29.2	43.6	960
S729037		4.05	17.15	0.21	4.5	0.053	1.37	34.1	17.8	1.19	621	0.61	2.21	24.7	45.2	920
S729038		4.49	18.05	0.20	4.3	0.054	1.49	33.5	19.0	1.68	709	0.59	2.25	28.2	71.1	1090
S729039		4.06	18.20	0.20	4.6	0.055	1.54	38.9	19.4	1.46	543	0.77	2.20	20.7	53.5	1100
S729040		1.71	14.50	0.14	1.4	0.023	1.30	8.7	8.8	0.56	294	0.07	2.90	2.7	21.1	220
S729041		4.72	19.70	0.21	4.4	0.059	1.62	39.3	21.7	1.59	776	0.71	2.32	22.0	102.0	1100
S729042		4.47	18.55	0.18	4.1	0.054	1.52	31.2	21.9	1.47	682	0.66	2.20	27.4	50.5	1010
S729043		4.65	19.25	0.21	4.1	0.059	1.70	36.4	22.7	1.53	727	0.67	2.27	33.6	50.9	920
S729044		5.49	20.6	0.23	4.2	0.064	1.76	42.2	25.1	1.70	664	0.98	2.26	23.7	58.3	1180
S729045		4.69	19.10	0.22	4.1	0.063	1.43	40.7	18.6	1.68	776	0.50	2.31	25.6	54.5	1180
S729046		5.74	18.70	0.18	3.5	0.069	0.89	25.7	14.6	2.22	1040	0.42	2.05	15.6	64.6	940
S729047		5.52	20.8	0.22	4.2	0.076	1.25	35.3	19.4	2.00	1000	0.61	2.27	23.9	60.9	1160
S729048		5.75	19.35	0.18	3.4	0.060	1.19	27.4	18.3	2.18	1020	0.59	2.06	21.9	69.1	870
S729049		5.76	20.3	0.19	3.2	0.071	1.31	31.7	19.1	2.06	976	0.64	2.11	17.2	66.7	1060
S729050		5.27	20.8	0.22	4.3	0.064	1.57	41.1	22.3	1.72	840	0.72	2.30	34.5	57.3	1150
S729051		6.56	20.8	0.20	3.5	0.079	1.26	32.2	20.3	2.18	1060	0.64	2.01	21.2	74.9	1030
S729052		7.18	19.45	0.20	2.8	0.072	0.95	27.3	16.8	2.77	1140	0.67	1.86	14.2	120.5	1000
S729053		6.97	18.20	0.17	2.7	0.073	0.82	22.3	15.7	3.18	1200	0.61	1.75	12.0	155.0	950
S729054		6.26	18.50	0.18	3.0	0.066	1.12	24.5	18.6	2.16	1030	0.58	1.98	16.6	68.6	950
S729055		5.49	21.2	0.19	4.5	0.075	1.48	37.2	24.5	2.12	707	0.67	2.21	21.2	92.1	770
S729056		5.02	20.4	0.22	4.6	0.063	1.61	40.9	22.1	1.69	730	0.76	2.28	25.3	61.7	1040
S729057		5.26	19.95	0.21	4.1	0.059	1.60	37.4	22.2	1.66	767	0.67	2.16	20.9	57.7	980
S729058		5.21	19.45	0.23	4.4	0.063	1.57	40.3	21.0	1.56	828	0.74	2.23	20.0	52.7	1020
S729059		5.45	20.3	0.21	4.7	0.071	1.60	40.7	22.2	1.63	844	0.66	2.35	25.1	49.7	1180
S729060		5.53	19.95	0.21	3.9	0.068	1.60	39.1	22.5	1.64	857	0.69	2.27	23.0	50.3	1120
S729061		4.95	19.00	0.21	4.0	0.057	1.61	36.6	22.9	1.55	773	0.62	2.29	30.1	45.2	1080
S729062		4.95	20.1	0.22	4.7	0.061	1.58	42.7	24.1	1.68	827	0.61	2.33	36.0	50.2	1120
S729063		5.08	20.1	0.23	4.5	0.065	1.52	36.6	21.8	1.63	807	0.56	2.36	34.4	47.6	1070



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S729024		10.8	53.0	<0.002	0.01	0.51	19.7	1	1.5	294	1.14	<0.05	7.34	0.602	2.0
S729025		13.0	67.8	<0.002	0.01	0.49	18.8	1	1.6	300	1.08	0.05	8.83	0.580	2.0
S729026		12.4	65.8	<0.002	0.01	0.45	18.9	1	1.6	306	1.09	<0.05	8.45	0.577	1.8
S729027		11.6	59.8	<0.002	0.01	0.39	18.2	1	1.6	351	1.13	<0.05	7.31	0.615	1.9
S729028		10.0	49.5	<0.002	<0.01	0.58	23.5	1	1.6	335	0.93	0.06	6.39	0.632	1.4
S729029		12.1	52.9	<0.002	<0.01	0.36	19.8	1	1.7	394	1.34	<0.05	8.78	0.725	2.0
S729030		13.0	75.6	<0.002	0.01	0.38	17.7	1	1.6	313	1.20	<0.05	8.91	0.581	1.8
S729031		12.1	66.9	<0.002	<0.01	0.35	19.2	1	1.6	370	1.20	<0.05	7.22	0.624	1.9
S729032		11.8	64.2	<0.002	<0.01	0.38	18.2	1	1.6	334	1.13	<0.05	7.66	0.589	2.1
S729033		11.2	58.5	<0.002	0.01	0.38	17.5	1	1.5	319	1.07	<0.05	6.98	0.566	1.9
S729034		10.9	49.4	<0.002	0.01	0.70	21.4	1	1.5	341	1.10	0.07	6.37	0.680	1.6
S729035		12.7	61.4	<0.002	0.01	0.41	18.3	1	1.6	329	1.23	<0.05	8.54	0.585	2.2
S729036		11.7	53.7	<0.002	0.01	0.41	16.5	1	1.5	320	1.13	<0.05	7.32	0.608	1.7
S729037		12.2	51.0	<0.002	0.02	0.64	16.7	1	1.3	304	1.77	<0.05	7.75	0.531	2.4
S729038		11.2	55.7	<0.002	0.01	0.46	18.0	1	1.4	317	1.47	<0.05	6.72	0.547	1.9
S729039		12.5	61.0	<0.002	0.02	0.44	18.7	1	1.5	293	1.10	<0.05	7.73	0.677	2.4
S729040		6.5	49.1	<0.002	<0.01	0.10	6.4	<1	0.5	396	0.22	<0.05	1.33	0.160	0.4
S729041		12.7	63.6	<0.002	0.01	2.56	19.5	1	1.6	311	1.11	<0.05	8.18	0.586	1.8
S729042		12.1	58.6	<0.002	0.01	0.33	16.6	1	1.5	296	1.17	<0.05	7.89	0.586	1.9
S729043		12.7	68.7	<0.002	0.01	0.33	16.7	1	1.5	299	1.59	<0.05	9.02	0.554	2.5
S729044		13.5	77.7	<0.002	0.01	0.53	19.7	1	1.6	306	1.10	0.07	9.20	0.574	2.3
S729045		10.8	53.9	<0.002	<0.01	0.41	19.6	1	1.6	338	1.22	<0.05	8.62	0.631	2.1
S729046		7.1	32.3	<0.002	0.01	0.66	25.8	1	1.4	324	0.82	<0.05	4.15	0.702	1.2
S729047		10.6	51.7	<0.002	<0.01	0.56	24.0	1	1.7	353	1.09	<0.05	6.01	0.696	1.7
S729048		8.8	46.3	<0.002	0.01	0.63	22.6	1	1.5	308	0.91	0.05	5.29	0.613	1.4
S729049		9.3	51.5	<0.002	0.01	0.65	22.0	1	1.6	317	0.94	<0.05	5.83	0.625	1.6
S729050		11.5	65.2	<0.002	0.01	0.41	20.3	1	1.7	323	1.21	<0.05	8.11	0.648	2.2
S729051		10.3	55.9	<0.002	0.01	0.85	25.2	1	1.6	301	0.98	0.07	5.77	0.706	1.6
S729052		7.8	39.0	<0.002	0.01	1.03	26.8	1	1.5	290	0.77	0.19	4.21	0.712	1.3
S729053		6.2	32.9	<0.002	0.02	1.02	26.9	1	1.4	292	0.67	0.11	3.71	0.709	1.0
S729054		8.2	44.0	<0.002	0.01	0.72	22.5	1	1.4	290	0.78	0.08	4.82	0.648	1.2
S729055		12.0	59.3	<0.002	0.01	0.61	22.5	1	1.8	294	1.14	0.06	7.77	0.646	1.9
S729056		12.6	67.2	<0.002	0.01	0.51	20.6	1	1.7	306	1.37	<0.05	8.91	0.629	2.1
S729057		11.3	67.7	<0.002	0.01	0.46	19.7	1	1.6	287	1.07	0.05	6.91	0.607	1.8
S729058		11.6	64.5	<0.002	0.01	0.47	19.1	1	1.6	299	1.02	<0.05	7.25	0.634	2.1
S729059		12.1	68.3	<0.002	0.01	0.46	20.2	1	1.7	325	1.19	0.21	7.95	0.644	2.1
S729060		12.1	68.8	<0.002	0.01	0.52	19.2	1	1.7	307	1.10	0.20	7.72	0.611	2.0
S729061		12.1	69.6	<0.002	0.01	0.37	16.7	1	1.5	305	1.24	<0.05	7.77	0.570	2.0
S729062		13.0	69.4	<0.002	0.01	0.36	17.3	1	1.7	316	1.62	<0.05	10.55	0.600	2.5
S729063		12.4	61.5	<0.002	0.01	0.46	18.9	1	1.7	328	1.39	<0.05	7.82	0.642	2.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S729024		129	0.7	20.1	95	149.0
S729025		127	0.6	21.6	106	157.5
S729026		130	0.6	21.7	102	164.5
S729027		128	0.6	20.3	97	164.5
S729028		154	0.8	23.9	125	123.0
S729029		128	0.6	23.9	77	222
S729030		130	0.6	22.1	110	153.5
S729031		123	0.6	21.1	87	177.5
S729032		120	0.6	20.2	88	163.0
S729033		118	0.6	18.1	85	151.5
S729034		140	1.4	20.1	97	153.5
S729035		121	0.6	19.8	83	194.5
S729036		114	0.6	16.6	73	187.0
S729037		107	0.5	17.8	77	174.5
S729038		116	0.6	18.5	82	173.5
S729039		127	0.5	20.4	86	183.0
S729040		41	0.2	6.2	21	53.8
S729041		125	0.6	20.4	94	173.0
S729042		120	0.5	16.1	85	164.0
S729043		121	0.6	17.9	83	169.5
S729044		129	0.8	21.6	100	166.0
S729045		130	0.6	19.8	79	161.0
S729046		164	0.8	21.8	97	138.5
S729047		152	0.8	22.5	93	168.5
S729048		149	0.8	19.1	108	131.5
S729049		148	0.8	20.8	105	130.5
S729050		139	0.7	22.3	97	168.5
S729051		168	2.0	23.5	106	135.5
S729052		178	1.1	23.9	92	116.5
S729053		175	1.0	21.2	92	107.5
S729054		157	0.8	19.0	105	122.5
S729055		156	0.8	21.7	101	174.0
S729056		136	0.7	21.9	100	182.0
S729057		130	0.7	20.2	86	160.5
S729058		134	0.7	21.5	87	176.5
S729059		136	0.7	22.1	96	178.5
S729060		133	0.8	21.8	98	156.5
S729061		122	0.6	17.4	91	158.5
S729062		123	0.6	19.8	96	183.0
S729063		133	0.6	23.5	100	178.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
S729064		1.05	0.052	0.15	7.41	268	490	1.49	0.22	2.31	0.22	78.3	40.4	96	1.53	205
S729065		1.34	0.005	0.06	7.55	15.6	520	1.54	0.14	2.20	0.11	83.0	31.7	99	1.77	159.0
S729066		1.05	0.006	0.06	7.52	28.1	520	1.51	0.11	2.44	0.13	89.2	25.9	112	1.63	90.5
S729067		1.44	0.009	0.05	7.09	49.1	510	1.59	0.14	2.32	0.14	82.1	21.3	93	1.31	84.1
S729068		1.22	0.004	0.08	7.70	17.3	540	1.57	0.14	2.36	0.13	82.3	36.0	100	1.79	135.0
S729069		1.12	0.008	0.18	7.62	147.0	570	1.67	0.16	2.11	0.19	88.4	29.6	107	2.26	198.0
S729070		1.17	0.005	0.11	7.42	29.6	540	1.75	0.12	2.39	0.15	90.1	25.4	96	1.77	117.0
S729071		1.04	0.003	0.06	7.71	10.3	570	1.78	0.10	2.34	0.14	98.0	25.9	115	1.99	89.5
S729072		1.02	0.009	0.23	7.51	73.3	520	1.51	1.06	2.37	1.49	80.1	39.0	125	2.00	315
S729073		1.29	0.004	0.04	7.79	24.3	560	1.67	0.11	2.13	0.11	89.4	30.0	115	1.94	105.0
S729074		0.86	0.012	0.04	7.65	31.2	470	1.40	0.13	2.59	0.13	74.0	27.7	124	1.44	99.5
S729075		0.87	0.009	0.04	7.11	11.7	510	1.38	0.10	2.38	0.13	82.5	20.8	122	1.19	51.4
S729076		1.30	0.009	0.06	7.85	19.5	600	1.68	0.11	2.06	0.12	89.5	23.8	136	2.10	56.4
S729077		1.40	0.007	0.03	7.44	7.1	550	1.64	0.10	2.20	0.15	90.5	21.1	124	1.69	40.3
S729078		1.23	0.006	0.08	7.37	12.4	570	1.68	0.10	2.21	0.24	92.0	24.0	136	2.14	51.6
S729079		1.66	0.005	0.09	7.65	20.0	590	1.68	0.12	2.18	0.24	91.9	29.4	137	2.21	64.2
S729080		0.05	0.392	0.53	7.56	36.4	2900	3.07	5.68	0.62	0.39	100.0	15.2	23	7.17	1485
S729081		1.29	0.073	0.07	7.51	39.1	550	1.61	0.14	2.41	0.14	91.4	27.2	139	1.74	66.8
S729082		1.93	0.011	0.09	7.50	39.8	530	1.62	0.14	2.08	0.13	86.1	32.9	134	1.79	86.8
S729083		1.57	0.010	0.06	7.40	52.8	500	1.49	0.15	2.53	0.09	80.9	31.9	147	1.36	90.8
S729084		1.45	0.037	0.10	7.40	126.0	510	1.59	0.29	2.34	0.18	77.2	42.9	156	1.56	135.5
S729085		1.41	0.004	0.02	7.30	26.1	510	1.60	0.13	2.28	0.09	83.3	24.3	137	1.51	70.7
S729086		1.92	0.006	0.09	7.54	17.4	510	1.57	0.14	2.60	0.18	82.5	23.6	107	1.60	119.0
S729087		1.18	0.027	0.07	7.61	57.9	430	1.36	0.19	2.91	0.15	76.2	30.0	111	1.26	140.5
S729088		1.18	0.020	0.07	7.36	29.4	470	1.49	0.14	2.85	0.11	86.5	26.0	98	1.25	138.5
S729089		0.96	0.006	0.04	7.48	31.0	540	1.65	0.12	2.29	0.09	97.3	22.8	95	1.69	76.2
S729090		1.45	0.003	0.07	7.40	5.4	550	1.64	0.10	2.24	0.13	95.5	20.9	97	1.75	65.3
S729091		1.25	0.003	0.06	7.46	17.0	570	1.81	0.10	2.42	0.20	110.5	21.1	100	1.90	62.7
S729092		1.48	0.003	0.04	7.39	4.2	560	1.71	0.07	2.35	0.10	92.2	17.6	96	1.56	31.4
S729093		1.35	0.002	0.03	7.52	6.5	560	1.60	0.08	2.44	0.13	94.0	18.3	92	1.67	39.8
S729094		0.89	0.002	0.04	6.90	2.6	530	1.70	0.06	2.64	0.16	101.0	14.2	79	0.99	21.9
S729095		1.22	0.006	0.06	7.10	9.8	530	1.75	0.10	2.38	0.13	111.5	19.8	88	1.56	71.8
S729096		1.18	0.003	0.03	7.20	12.9	500	1.58	0.12	2.50	0.11	115.0	21.8	92	1.25	139.5
S729097		1.28	0.004	0.05	7.02	13.9	500	1.70	0.11	2.54	0.15	104.5	31.1	95	1.39	156.5
S729098		1.51	0.003	0.05	7.16	13.3	530	1.85	0.09	2.26	0.13	108.0	20.4	102	1.58	45.1
S729099		1.08	0.004	0.06	7.51	35.3	530	1.67	0.12	2.53	0.14	91.3	30.4	100	1.42	108.5
S729100		1.17	0.001	0.03	6.94	3.5	510	1.58	0.07	2.45	0.11	87.2	16.3	103	1.19	22.5



ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: TRUE NORTH NICKEL INC,
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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Account: LZIBAC

Project: QK-2016-TS-005

CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
S729064		6.25	19.75	0.22	3.5	0.075	1.50	37.6	21.5	1.86	970	0.61	2.09	24.5	53.1	1230
S729065		5.78	19.65	0.23	4.0	0.062	1.49	37.6	22.8	1.76	858	0.64	2.12	23.1	51.5	1010
S729066		5.46	19.70	0.22	4.1	0.066	1.50	41.7	23.4	1.90	845	0.56	2.20	28.8	59.2	1170
S729067		4.53	18.50	0.23	4.0	0.062	1.45	40.0	19.2	1.42	742	1.01	2.27	37.0	44.4	1180
S729068		5.77	21.4	0.21	3.6	0.068	1.56	39.0	24.8	1.83	918	1.00	2.06	27.6	58.3	1010
S729069		5.87	20.6	0.22	4.1	0.060	1.66	45.9	27.9	1.72	745	1.34	2.01	26.8	58.9	1050
S729070		5.03	20.0	0.23	4.6	0.067	1.59	45.3	21.5	1.49	798	0.89	2.31	33.3	47.2	1360
S729071		5.25	20.8	0.25	4.7	0.058	1.66	47.4	25.2	1.82	837	0.84	2.25	34.5	61.5	1190
S729072		7.51	20.1	0.23	3.7	0.121	1.57	40.8	24.8	2.02	944	1.27	2.03	22.6	69.2	1180
S729073		5.39	20.6	0.23	4.2	0.060	1.64	42.9	24.7	1.71	863	0.81	2.20	24.9	59.6	930
S729074		5.63	19.90	0.22	3.6	0.062	1.37	37.5	20.9	2.01	921	0.59	2.12	21.7	63.3	930
S729075		4.58	18.45	0.22	4.6	0.057	1.47	42.5	17.9	1.52	712	0.65	2.29	25.0	57.7	1030
S729076		5.20	20.7	0.24	4.1	0.059	1.75	43.1	26.1	1.83	780	0.75	2.20	27.6	72.6	970
S729077		4.58	20.5	0.21	4.9	0.063	1.60	45.5	22.5	1.53	677	0.83	2.26	25.2	55.2	980
S729078		4.95	20.3	0.24	4.5	0.058	1.74	45.5	25.4	1.73	880	0.94	2.16	23.0	72.6	1130
S729079		5.54	21.2	0.25	4.1	0.065	1.77	46.1	26.8	1.86	1260	1.04	2.19	25.4	81.2	1180
S729080		4.09	25.8	0.24	7.0	0.686	2.93	50.2	20.9	0.28	389	3.51	2.47	20.0	10.5	280
S729081		5.20	20.7	0.22	4.7	0.064	1.62	46.5	23.8	1.82	813	0.68	2.30	31.2	74.1	1220
S729082		5.72	19.70	0.24	4.2	0.055	1.58	44.0	23.3	1.76	833	0.99	2.19	25.9	70.9	1120
S729083		5.37	19.60	0.21	4.7	0.065	1.44	38.2	20.2	1.77	901	0.79	2.20	27.9	67.6	1040
S729084		5.62	19.55	0.20	4.0	0.057	1.49	36.7	20.8	1.85	944	0.81	2.16	25.2	103.0	1080
S729085		4.64	20.0	0.24	5.1	0.063	1.45	39.3	21.0	1.61	574	0.68	2.23	23.9	67.5	960
S729086		5.06	20.2	0.23	4.3	0.062	1.49	39.1	21.3	1.77	685	0.90	2.21	27.3	53.5	1100
S729087		5.93	19.80	0.21	3.7	0.070	1.25	36.5	18.5	1.94	949	0.69	2.11	32.6	51.0	1130
S729088		5.43	19.70	0.21	4.1	0.069	1.38	42.2	18.0	1.70	906	0.66	2.21	32.6	45.8	1360
S729089		5.07	19.95	0.20	4.9	0.059	1.54	44.5	22.1	1.51	791	0.71	2.37	43.8	44.3	1370
S729090		4.74	20.2	0.22	4.6	0.064	1.55	46.7	22.5	1.50	737	0.77	2.30	39.3	47.0	1370
S729091		5.10	20.1	0.26	5.0	0.064	1.57	53.7	23.6	1.62	731	0.81	2.31	40.4	51.6	1590
S729092		4.50	19.20	0.24	4.8	0.060	1.53	45.2	20.9	1.42	728	0.68	2.38	30.8	42.4	1200
S729093		4.64	20.1	0.25	4.7	0.064	1.57	45.9	21.2	1.41	681	0.86	2.39	38.1	40.3	1370
S729094		3.89	18.50	0.25	5.0	0.053	1.49	51.3	15.4	1.17	708	0.55	2.57	40.9	32.2	1740
S729095		4.66	19.80	0.26	5.4	0.065	1.48	58.1	20.5	1.36	764	0.84	2.40	46.0	39.6	1700
S729096		4.97	18.90	0.28	4.6	0.063	1.39	54.0	18.8	1.44	711	0.75	2.39	71.0	38.5	1600
S729097		5.04	19.35	0.27	5.0	0.062	1.41	51.6	19.3	1.44	808	1.14	2.26	50.3	42.7	1560
S729098		4.71	19.40	0.25	4.5	0.063	1.50	52.3	22.2	1.49	801	0.72	2.31	51.5	45.0	1500
S729099		5.18	20.3	0.24	4.4	0.073	1.48	44.6	20.8	1.58	818	0.76	2.33	35.9	48.1	1300
S729100		4.18	18.65	0.24	4.6	0.054	1.46	42.7	18.3	1.31	699	0.60	2.40	35.2	40.6	1360



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

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220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
S729064		11.6	60.0	<0.002	0.01	0.72	20.3	1	1.6	288	1.20	0.08	7.09	0.611	1.9
S729065		11.3	61.9	<0.002	0.01	0.38	18.9	1	1.6	301	1.14	0.06	7.29	0.578	2.0
S729066		11.1	63.5	<0.002	0.01	0.37	18.8	1	1.6	314	1.37	<0.05	7.42	0.638	2.1
S729067		14.3	54.2	<0.002	0.01	0.40	15.8	1	1.6	318	1.89	0.05	8.46	0.617	2.9
S729068		13.4	61.2	<0.002	0.01	0.60	19.2	1	1.7	296	1.12	0.05	7.64	0.570	1.9
S729069		14.2	74.0	<0.002	0.01	0.66	17.4	2	1.7	273	1.14	0.05	9.84	0.550	2.9
S729070		13.4	65.6	<0.002	0.01	0.49	18.1	1	1.7	328	1.50	<0.05	9.80	0.618	2.2
S729071		13.4	68.3	<0.002	0.01	0.44	18.5	2	1.8	317	1.46	0.06	9.47	0.641	2.2
S729072		12.3	66.1	<0.002	0.02	0.90	18.8	1	1.6	294	1.04	0.05	7.40	0.591	2.0
S729073		13.4	67.1	<0.002	0.01	0.47	17.5	1	1.6	292	1.20	<0.05	9.45	0.585	2.3
S729074		10.3	52.4	<0.002	0.01	0.63	20.3	1	1.6	294	1.11	0.05	6.66	0.619	1.7
S729075		11.4	54.2	<0.002	0.01	0.44	17.7	1	1.5	314	1.21	0.08	6.88	0.622	1.8
S729076		13.4	75.2	<0.002	0.01	0.51	17.7	1	1.7	282	1.22	0.06	9.93	0.562	2.2
S729077		14.3	65.0	<0.002	0.01	0.40	17.9	1	1.7	307	1.25	<0.05	9.73	0.609	2.3
S729078		14.6	75.3	<0.002	0.01	0.48	18.2	1	1.7	286	1.17	<0.05	10.20	0.573	1.8
S729079		14.3	78.5	<0.002	0.01	0.52	18.2	1	1.7	284	1.24	0.09	10.90	0.566	2.0
S729080		30.6	141.0	<0.002	0.07	2.07	5.3	3	4.2	164.0	1.37	0.10	15.70	0.124	5.0
S729081		12.8	68.0	<0.002	0.01	0.64	18.8	1	1.7	319	1.38	0.09	9.48	0.635	2.0
S729082		12.6	67.6	<0.002	0.01	0.70	18.1	2	1.6	281	1.15	0.21	8.66	0.568	2.2
S729083		11.3	55.0	<0.002	0.01	0.62	19.2	1	1.6	310	1.17	0.10	7.66	0.658	1.8
S729084		12.2	59.5	<0.002	0.01	1.32	18.6	1	1.5	291	1.44	0.19	7.76	0.578	2.2
S729085		12.3	53.9	<0.002	0.01	0.53	19.4	1	1.6	298	1.20	0.06	8.33	0.604	2.0
S729086		11.5	61.3	<0.002	0.01	0.58	19.4	2	1.7	308	1.49	<0.05	9.85	0.641	2.1
S729087		9.6	49.8	<0.002	0.01	0.72	21.8	1	1.6	318	1.11	0.07	6.56	0.697	1.6
S729088		10.7	52.9	<0.002	0.01	0.64	20.5	1	1.7	328	1.64	0.06	7.94	0.703	2.2
S729089		13.4	66.2	<0.002	0.01	0.39	16.7	1	1.7	312	1.75	0.05	9.76	0.663	2.2
S729090		13.6	63.1	<0.002	0.01	0.35	17.3	1	1.7	309	1.84	<0.05	9.90	0.617	2.9
S729091		14.3	70.4	<0.002	0.01	0.38	17.2	1	1.8	320	1.67	<0.05	10.95	0.666	2.4
S729092		13.3	57.6	<0.002	0.01	0.32	17.2	1	1.7	326	1.47	<0.05	9.32	0.640	2.2
S729093		13.9	60.6	<0.002	0.01	0.35	16.8	1	1.8	330	1.73	<0.05	10.55	0.637	2.6
S729094		12.3	53.6	<0.002	<0.01	0.26	15.6	1	1.7	361	1.69	<0.05	8.57	0.691	2.1
S729095		14.0	62.5	<0.002	0.01	0.31	16.7	1	1.9	325	2.23	<0.05	11.25	0.684	2.8
S729096		12.5	52.5	<0.002	0.01	0.40	17.6	2	1.9	329	2.22	0.05	11.60	0.684	3.0
S729097		12.6	57.5	<0.002	0.01	0.41	18.2	1	1.8	328	1.92	0.05	9.00	0.690	2.5
S729098		13.1	61.7	<0.002	0.01	0.33	16.6	1	1.8	309	1.85	<0.05	10.15	0.651	2.4
S729099		12.4	58.4	<0.002	0.01	0.60	18.0	1	1.8	325	1.77	0.08	7.99	0.648	2.2
S729100		12.2	52.9	<0.002	<0.01	0.29	16.1	1	1.7	327	1.53	<0.05	7.43	0.671	2.0



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 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16143603

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
S729064		146	0.9	22.2	124	142.0
S729065		130	0.7	22.0	101	157.0
S729066		133	0.7	21.1	99	158.5
S729067		117	0.6	21.2	91	162.0
S729068		140	0.7	21.2	138	143.0
S729069		129	0.7	23.1	138	160.0
S729070		124	0.7	23.9	107	176.5
S729071		134	0.7	22.3	114	183.0
S729072		140	1.5	23.7	494	142.5
S729073		132	0.6	21.5	102	164.0
S729074		146	0.8	22.2	107	142.5
S729075		123	0.6	21.9	78	182.5
S729076		133	0.7	20.8	104	161.5
S729077		124	0.7	21.2	87	186.5
S729078		128	0.6	22.5	102	173.5
S729079		133	0.7	22.4	112	160.0
S729080		10	2.9	17.6	142	263
S729081		135	0.7	23.3	98	180.5
S729082		131	0.7	23.1	102	165.5
S729083		140	0.7	22.2	89	177.0
S729084		136	0.7	21.9	101	157.0
S729085		130	0.6	20.6	82	193.0
S729086		141	0.7	22.9	106	166.5
S729087		153	0.8	23.7	99	144.5
S729088		142	0.8	25.1	92	157.5
S729089		129	0.7	21.4	89	190.0
S729090		125	0.6	22.0	88	177.5
S729091		133	0.6	25.0	107	198.0
S729092		121	0.6	21.2	82	186.5
S729093		121	0.6	22.7	90	185.5
S729094		112	0.6	23.6	69	194.5
S729095		120	0.7	26.5	90	215
S729096		125	0.7	25.7	84	177.0
S729097		127	0.7	25.9	92	190.0
S729098		125	0.6	24.2	88	172.5
S729099		131	0.6	23.1	91	169.5
S729100		117	0.6	21.2	72	178.5



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16143603

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
DRY-21 LOG-22 LOG-23 PUL-31
SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16189789

Project: QK-2016-FS-005

This report is for 6 Rock samples submitted to our lab in Val d'Or, QC, Canada on 3-NOV-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02a	Find Sample at Branch Lab

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62	Trace level ICP-MS analysis	ICP-MS

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO16189789

Sample Description	Method Analyte Units LOR	ME-MS62 Te ppm 0.05
P132265 P132266 P132267 P132274 P132561		<0.05 0.07 <0.05 1.86 0.18
P132904		<0.05



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16189789

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02a ME-MS62



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE VO16189833

Project: QK-2016-FS-005

This report is for 5 Rock samples submitted to our lab in Val d'Or, QC, Canada on 3-NOV-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02a	Find Sample at Branch Lab

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62	Trace level ICP-MS analysis	ICP-MS

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS VO16189833

Sample Description	Method Analyte Units LOR	ME-MS62 Te ppm 0.05
P132942		59.2
P132943		17.95
P132944		4.49
P132945		5.27
P132946		11.20

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS VO16189833

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02a ME-MS62



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **TRUE NORTH NICKEL INC,**
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

Page: 1
Total # Pages: 2 (A)
Plus Appendix Pages
Finalized Date: 15-NOV-2016
Account: LZIBAC

CERTIFICATE VO16189834

Project: QK-2016-FS-005

This report is for 9 Rock samples submitted to our lab in Val d'Or, QC, Canada on 3-NOV-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02a	Find Sample at Branch Lab

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62	Trace level ICP-MS analysis	ICP-MS

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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North Vancouver BC V7H 0A7
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Finalized Date: 15-NOV-2016
Account: LZIBAC

Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189834

Sample Description	Method Analyte Units LOR	ME-MS62 Te ppm 0.05
P132956		11.90
P132959		4.42
P132960		7.19
P132961		15.80
P132962		1.33
P132963		2.76
P137286		<0.05
P137287		0.12
P137604		0.15



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Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189834

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02a ME-MS62



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Total # Pages: 2 (A)
Plus Appendix Pages
Finalized Date: 15-NOV-2016
Account: LZIBAC

CERTIFICATE VO16189837

Project: QK-2016-FS-005

This report is for 12 Rock samples submitted to our lab in Val d'Or, QC, Canada on 3-NOV-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02a	Find Sample at Branch Lab

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62	Trace level ICP-MS analysis	ICP-MS

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
TORONTO ON M5J 2W4

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***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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 North Vancouver BC V7H 0A7
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 Account: LZIBAC

Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189837

Sample Description	Method Analyte Units LOR	ME-MS62 Te ppm 0.05
P137293 P137294 P137296 P137310 P137639		18.20 34.2 14.40 1.45 0.07
P137659 P137660 P137663 P137664 P137665		8.61 5.85 12.50 8.89 7.04
P137666 P137670		0.51 7.57



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Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189837

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

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FND-02a ME-MS62



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Finalized Date: 15-NOV-2016
Account: LZIBAC

CERTIFICATE VO16189845

Project: QK-2016-FS-005

This report is for 1 Rock sample submitted to our lab in Val d'Or, QC, Canada on 3-NOV-2016.

The following have access to data associated with this certificate:

ARNAUD FONTAINE

MICHELLE SCIORTINO

ALGER ST-JEAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02a	Find Sample at Branch Lab

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS62	Trace level ICP-MS analysis	ICP-MS

To: **TRUE NORTH NICKEL INC,**
ATTN: ARNAUD FONTAINE
220 BAY STREET, SUITE 1200
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Total # Pages: 2 (A)
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Finalized Date: 15-NOV-2016
Account: LZIBAC

Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189845

Sample Description	Method Analyte Units LOR	ME-MS62 Te ppm 0.05
P137529		<0.05



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Page: Appendix 1
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Finalized Date: 15-NOV-2016
Account: LZIBAC

Project: QK-2016-FS-005

CERTIFICATE OF ANALYSIS VO16189845

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
FND-02a ME-MS62

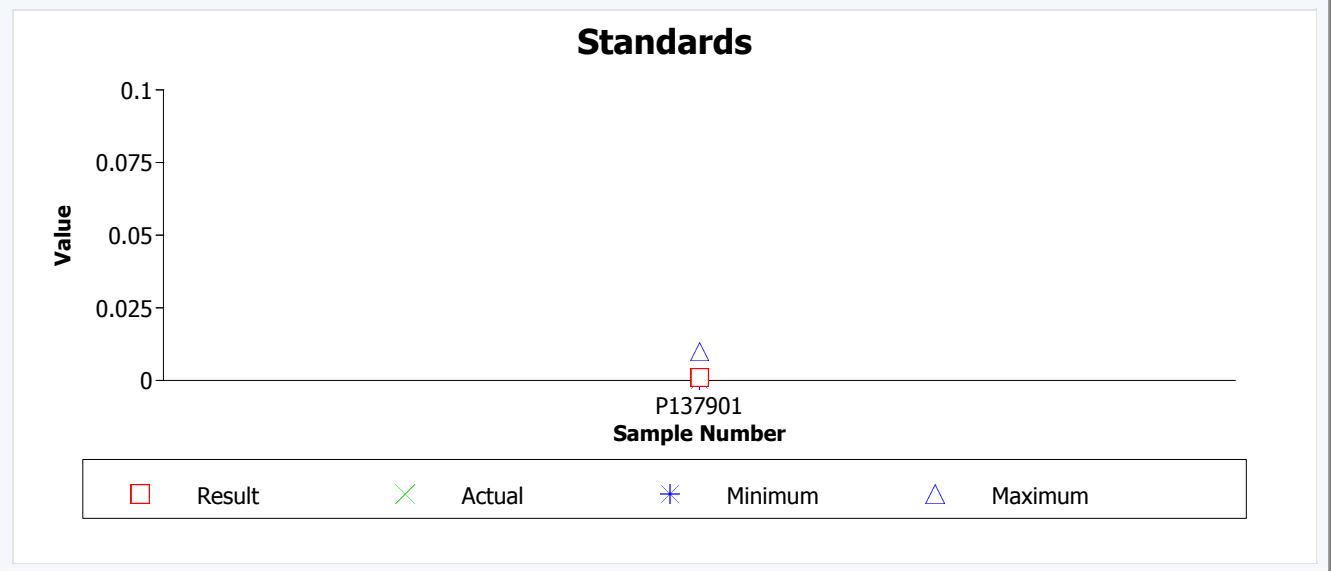
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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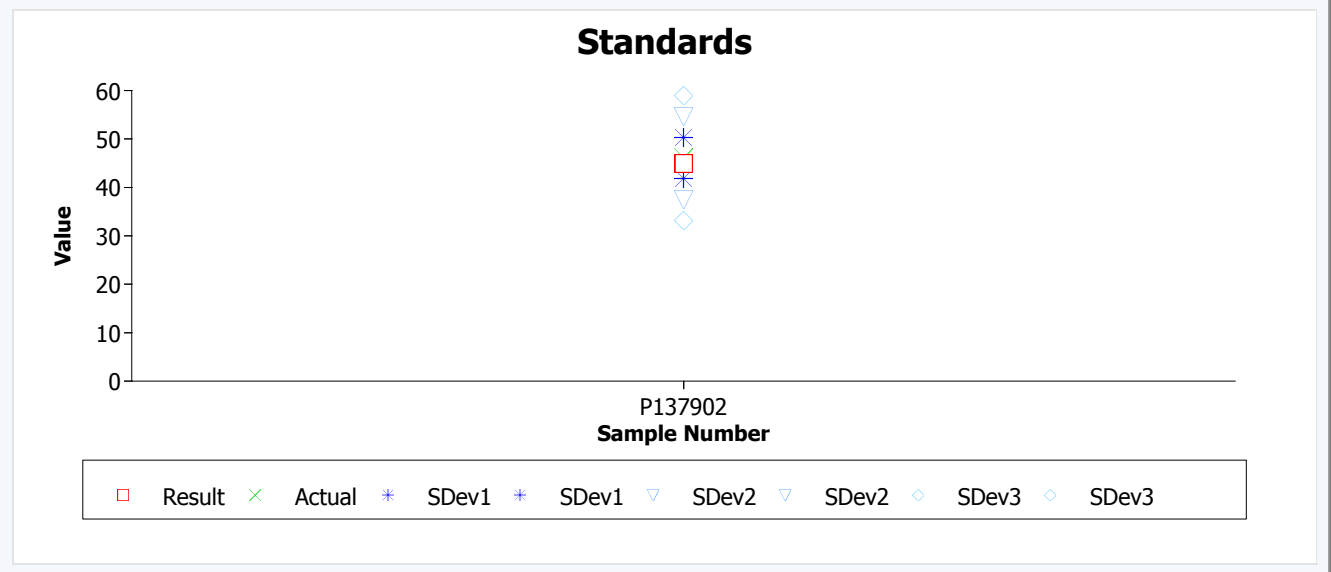
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Au	ppm	ICP22										
P137901		2016-Qiqavik Fiel VO16124050	2016-08-08	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0010			0.0000	0.0100



OREAS624

Ag	ppm	MEICP61a										
P137902		2016-Qiqavik Fiel VO16124050	2016-08-08	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	45.0000	4.29000000	3			



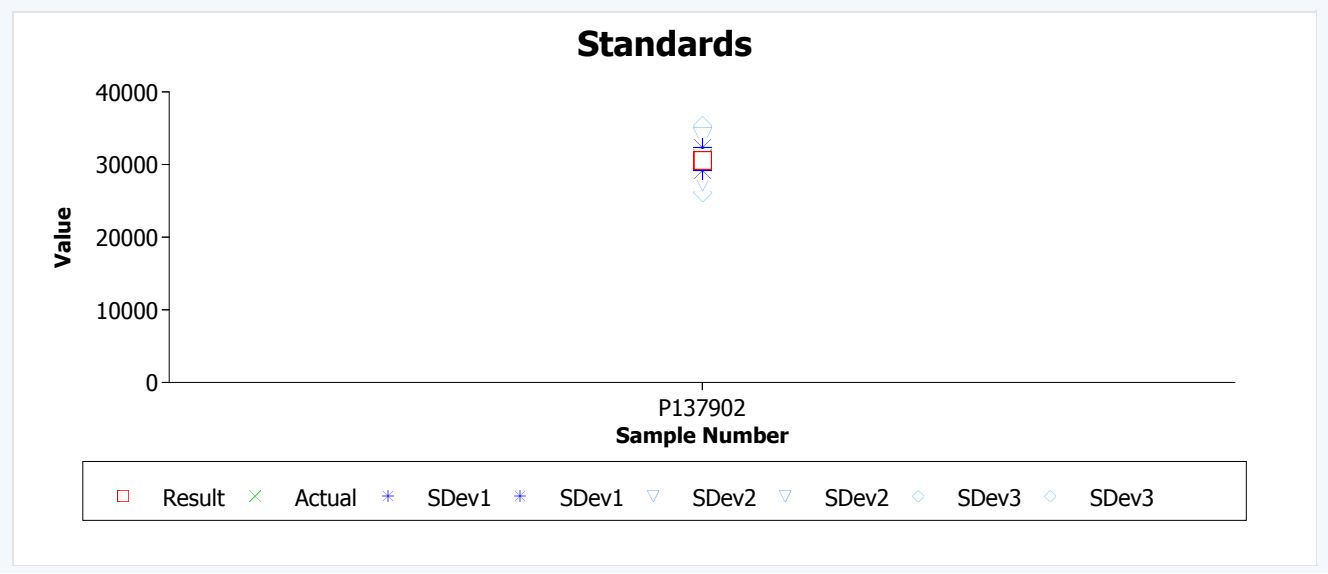
Oct 25, 2016

CONTROL CHARTS

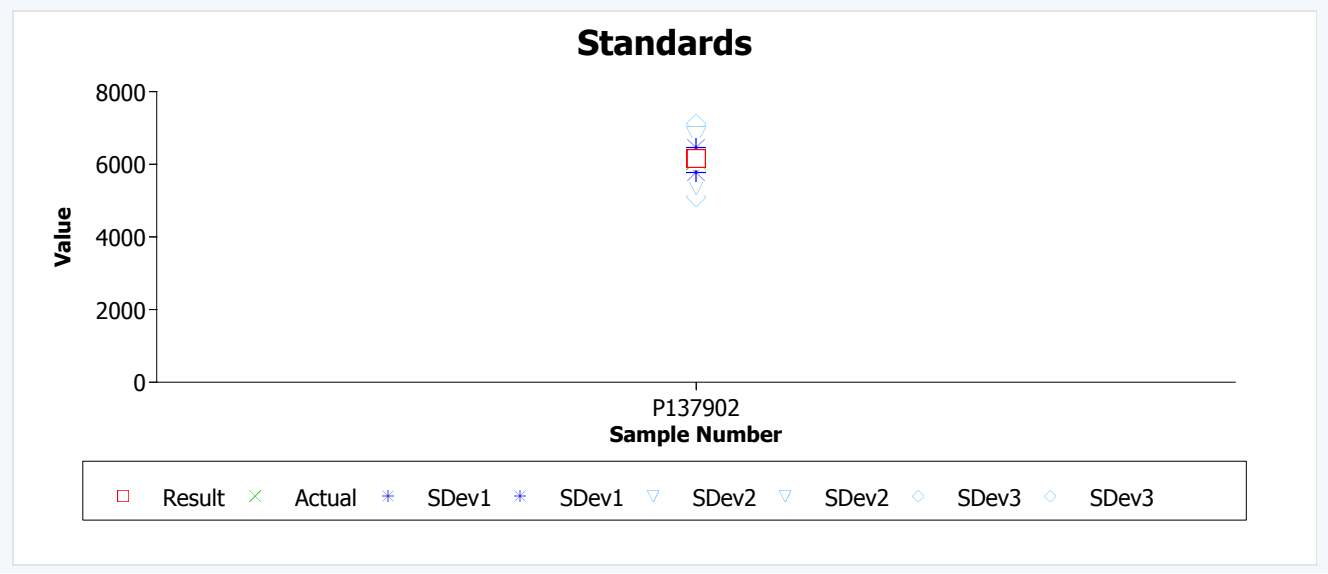
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OREAS624

Cu	ppm	MEICP61a										
P137902	2016-Qiqavik Fiel	VO16124050	2016-08-08	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	30600.0000	1540.00000000	3			



Pb	ppm	MEICP61a										
P137902	2016-Qiqavik Fiel	VO16124050	2016-08-08	ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6160.0000	340.00000000	3			



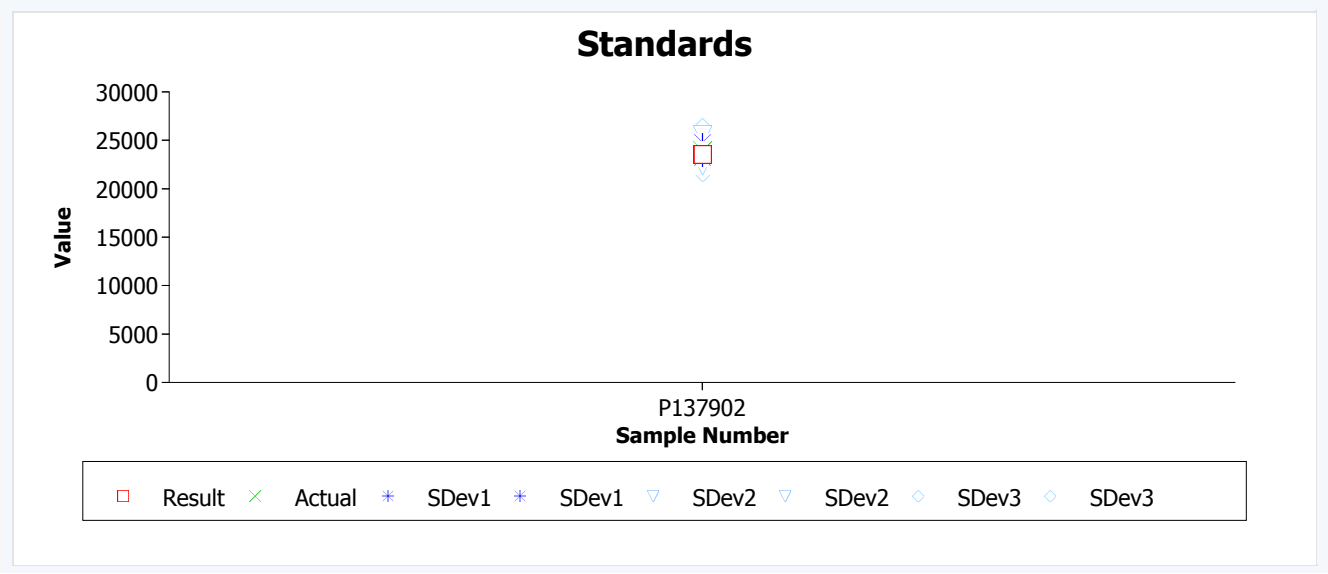
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Zn	ppm	MEICP61a										
P137902		2016-Qiqavik Fiel	VO16124050	2016-08-08	ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23600.0000	780.00000000	3		



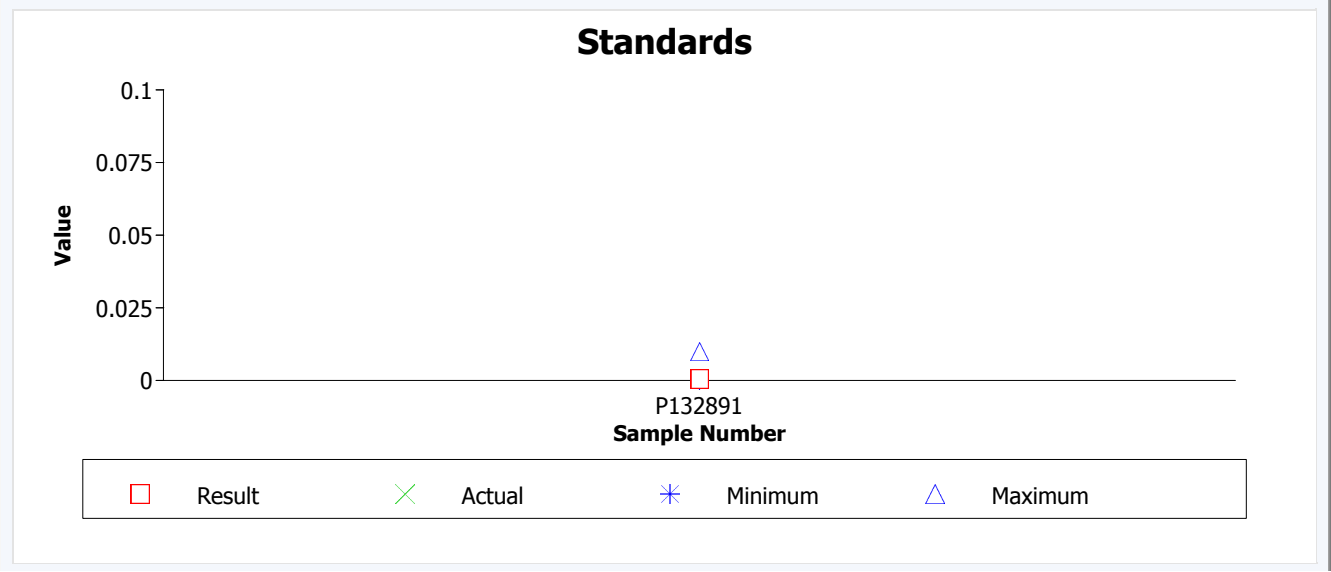
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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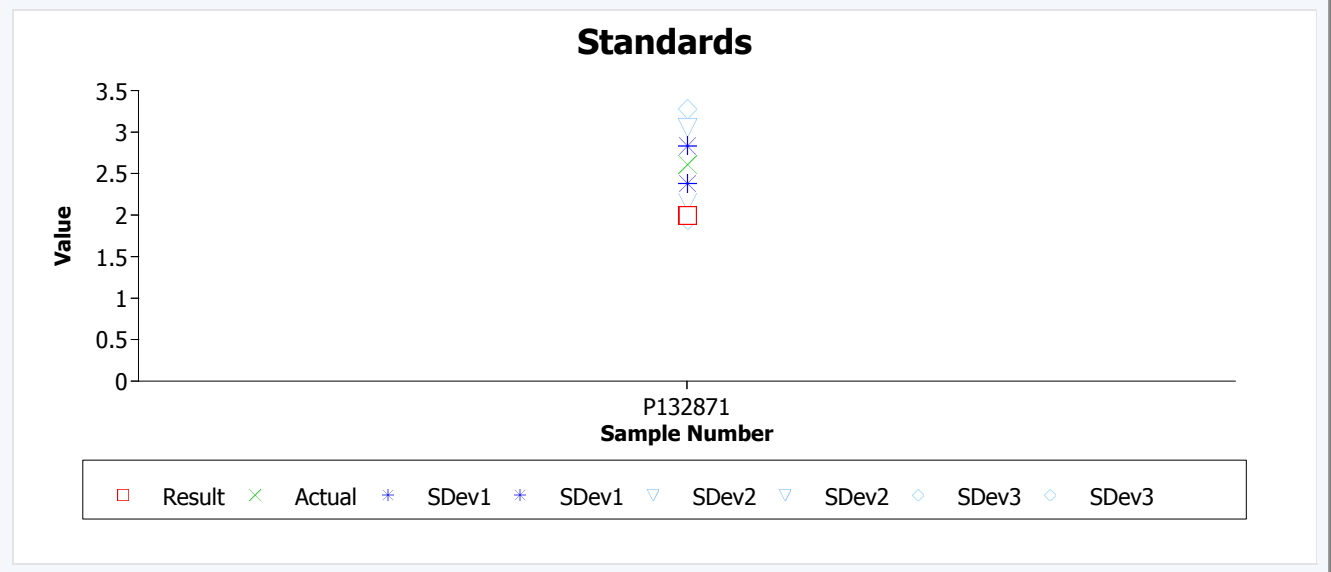
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Au	ppm	ICP22										
P132891		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:		0.0005			0.0000	0.0100



OREAS523

Ag	ppm	MEICP61a										
P132871		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.6100	2.0000	0.22300000	3		



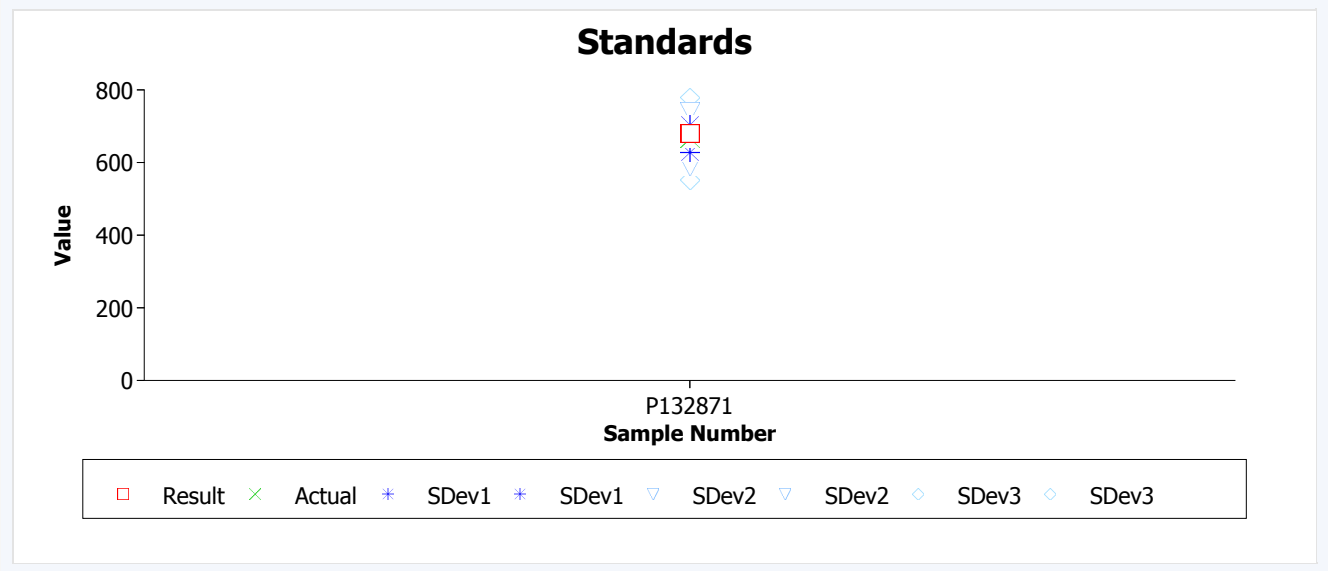
Oct 25, 2016

CONTROL CHARTS

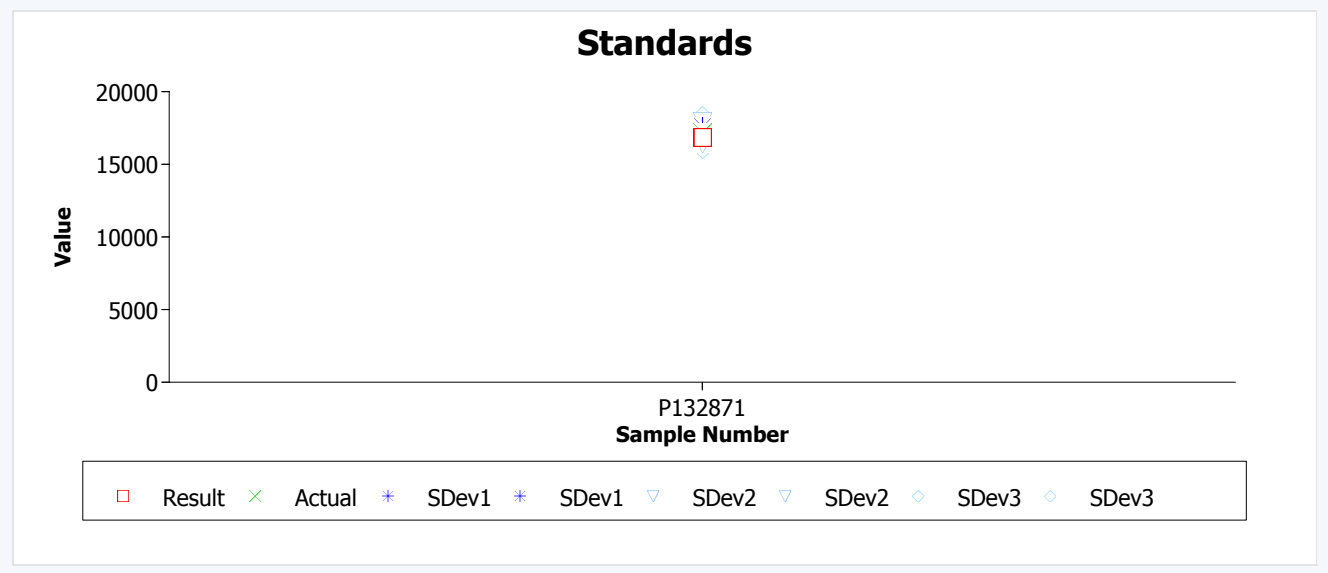
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OREAS523

As	ppm	MEICP61a										
P132871		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	666.0000	680.0000	38.00000000	3		



Cu	ppm	MEICP61a										
P132871		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	17200.0000	16850.0000	380.00000000	3		



OREAS60C

Ag	ppm	MEICP61a										
P132280		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.8700	5.0000	0.22000000	3		

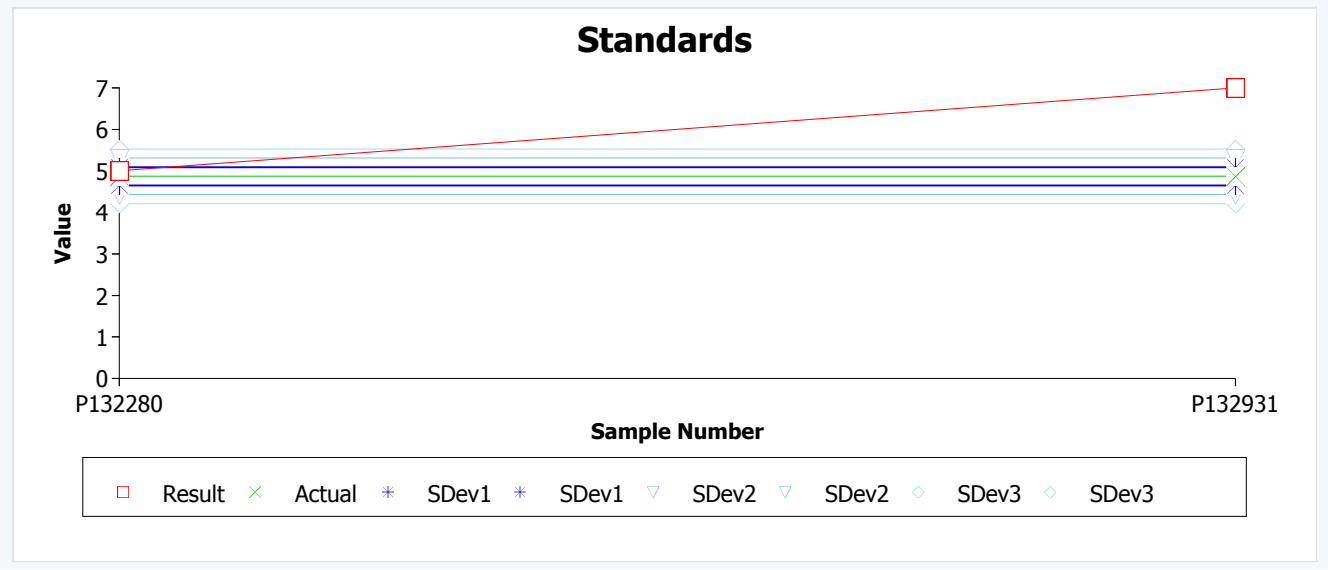
Oct 25, 2016

CONTROL CHARTS

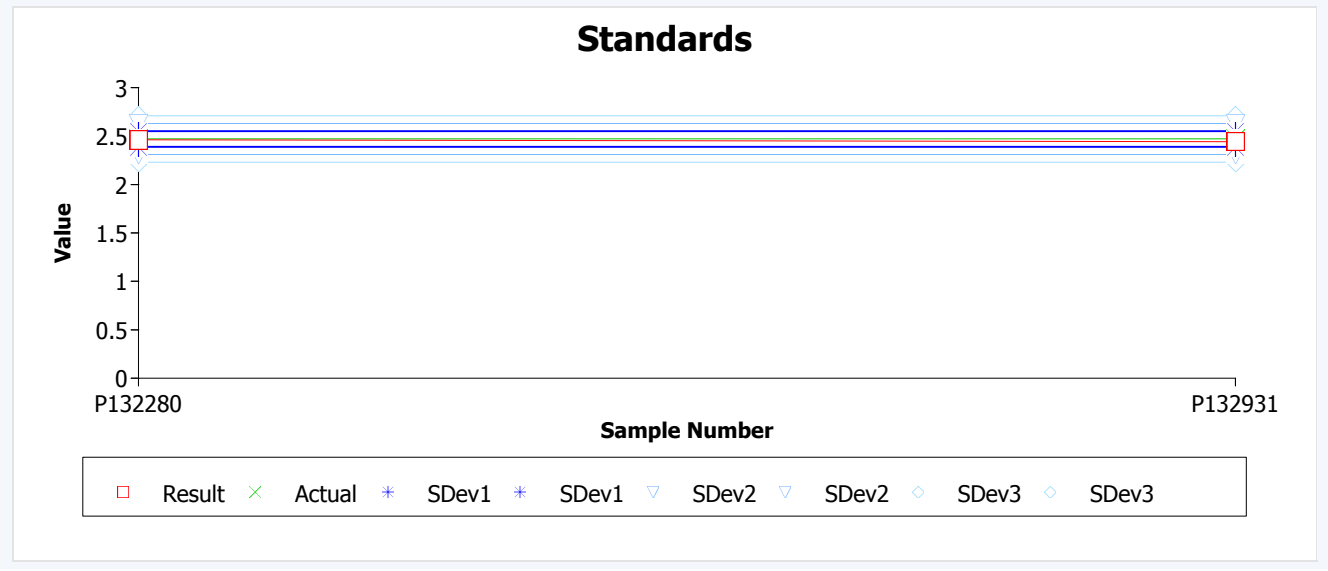
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OREAS60C

Ag	ppm	MEICP61a										
P132931		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.8700	7.0000	0.22000000	3		



Au	ppm	ICP22										
P132280		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.4700	2.4600	0.08000000	3		
P132931		2016-Qiqavik Fiel	VO16124058	2016-08-18	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.4700	2.4400	0.08000000	3		



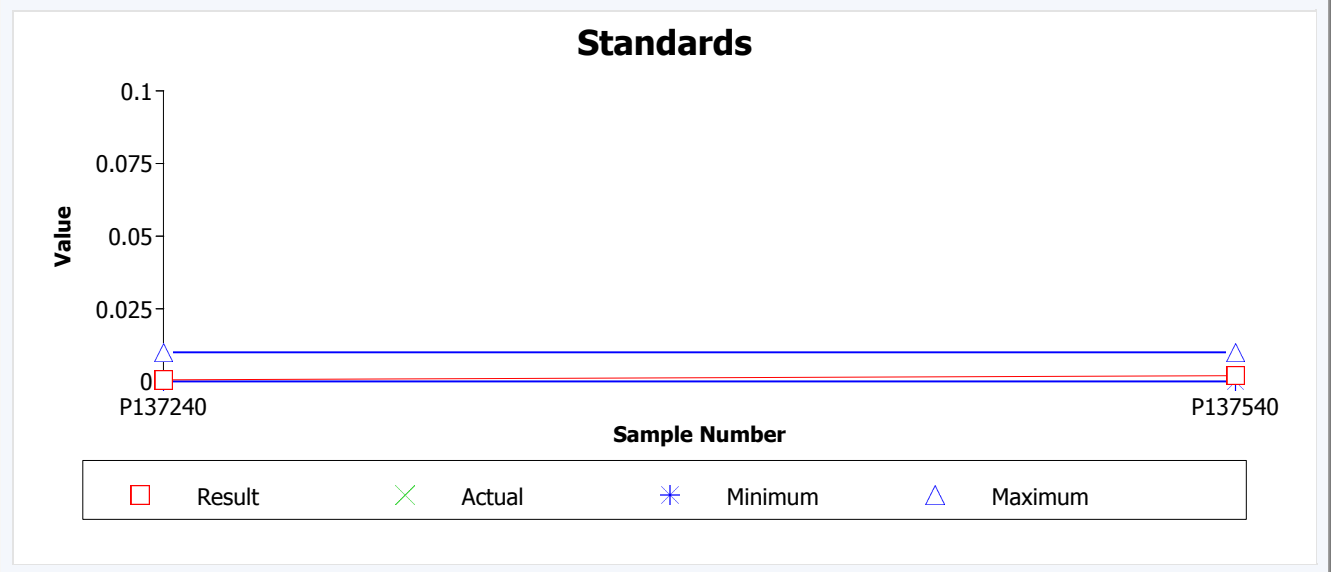
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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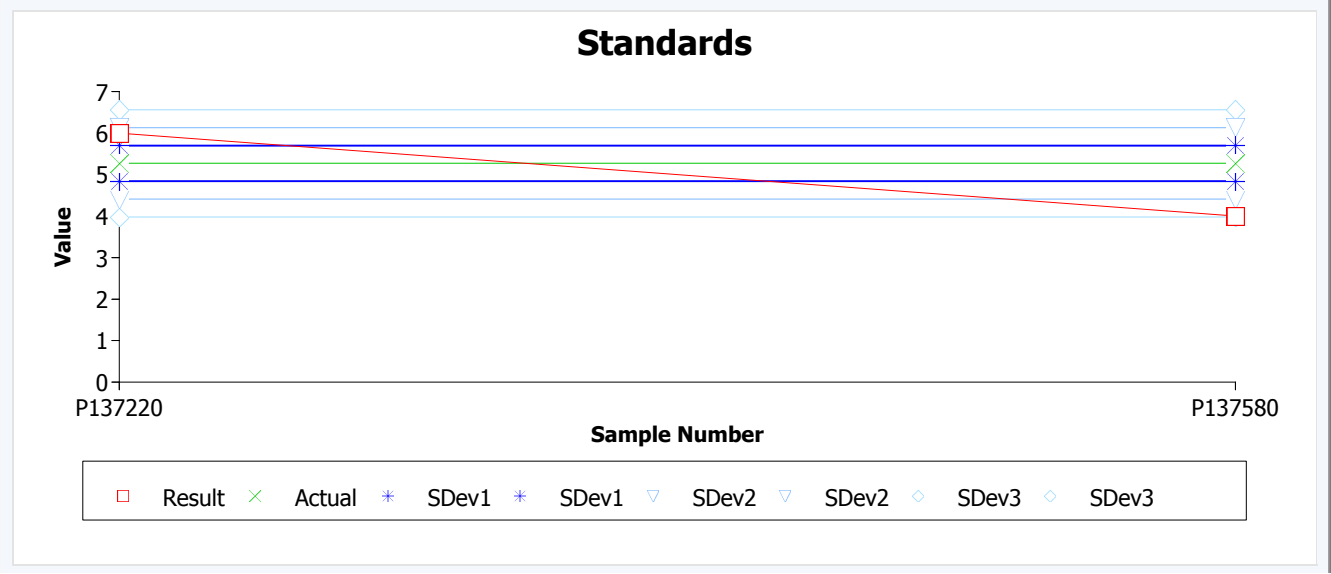
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Au	ppm	ICP22										
P137240		2016-Qiqavik Fiel VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0005			0.0000	0.0100
P137540		2016-Qiqavik Fiel VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0020			0.0000	0.0100



OREAS61E

Ag	ppm	MEICP61a										
P137220		2016-Qiqavik Fiel VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	5.2700	6.0000	0.43000000	3			
P137580		2016-Qiqavik Fiel VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	5.2700	4.0000	0.43000000	3			



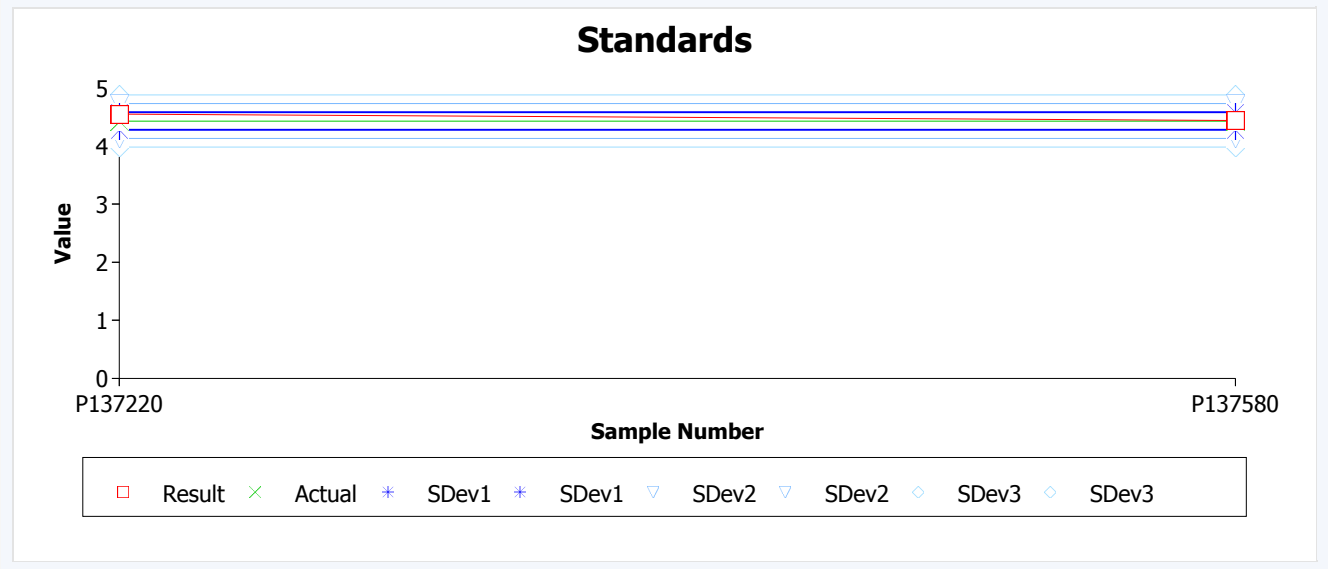
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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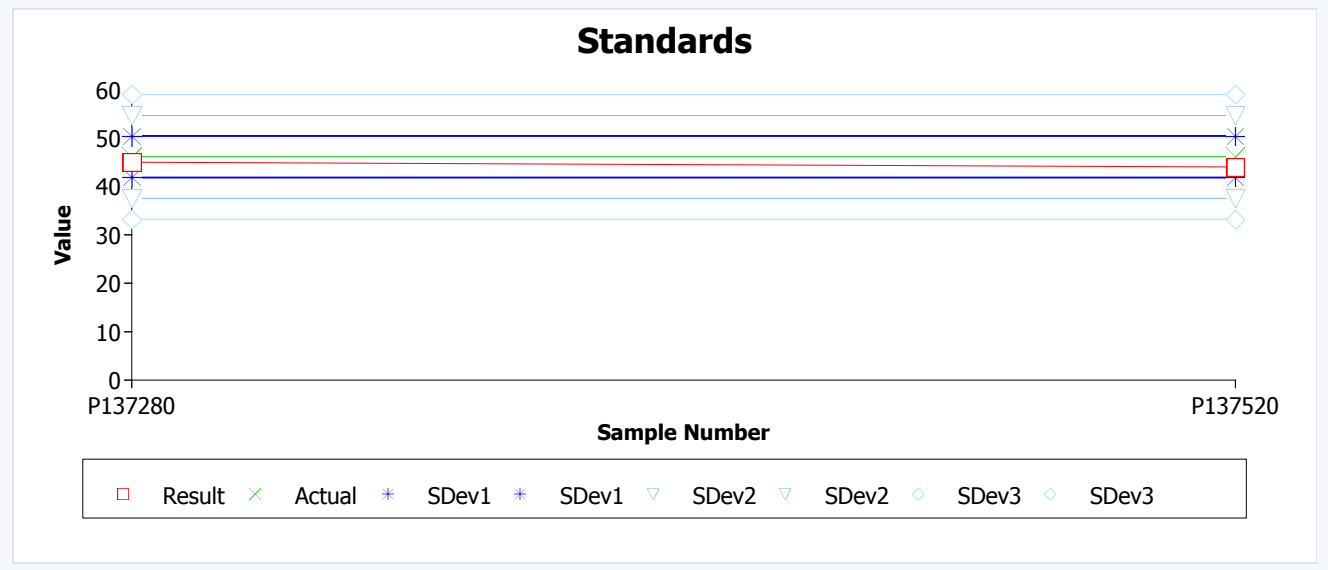
OREAS61E

Au	ppm	ICP22										
P137220	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.4300	4.5500	0.15000000	3			
P137580	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.4300	4.4400	0.15000000	3			



OREAS624

Ag	ppm	MEICP61a										
P137280	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	45.0000	4.29000000	3			
P137520	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	44.0000	4.29000000	3			



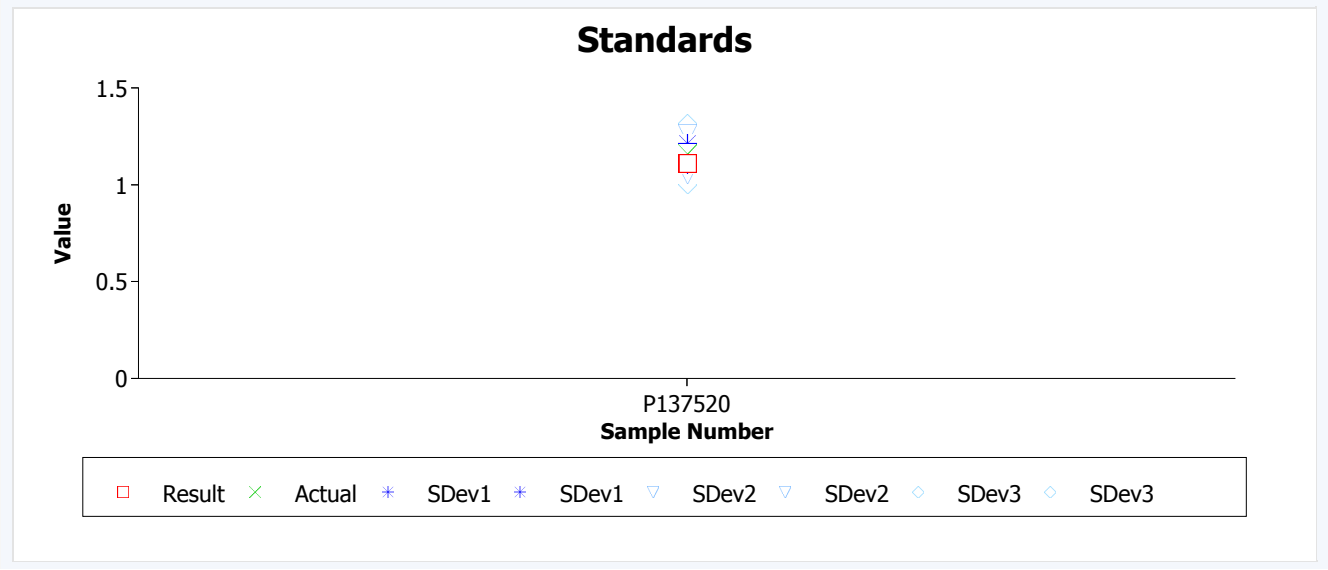
Oct 25, 2016

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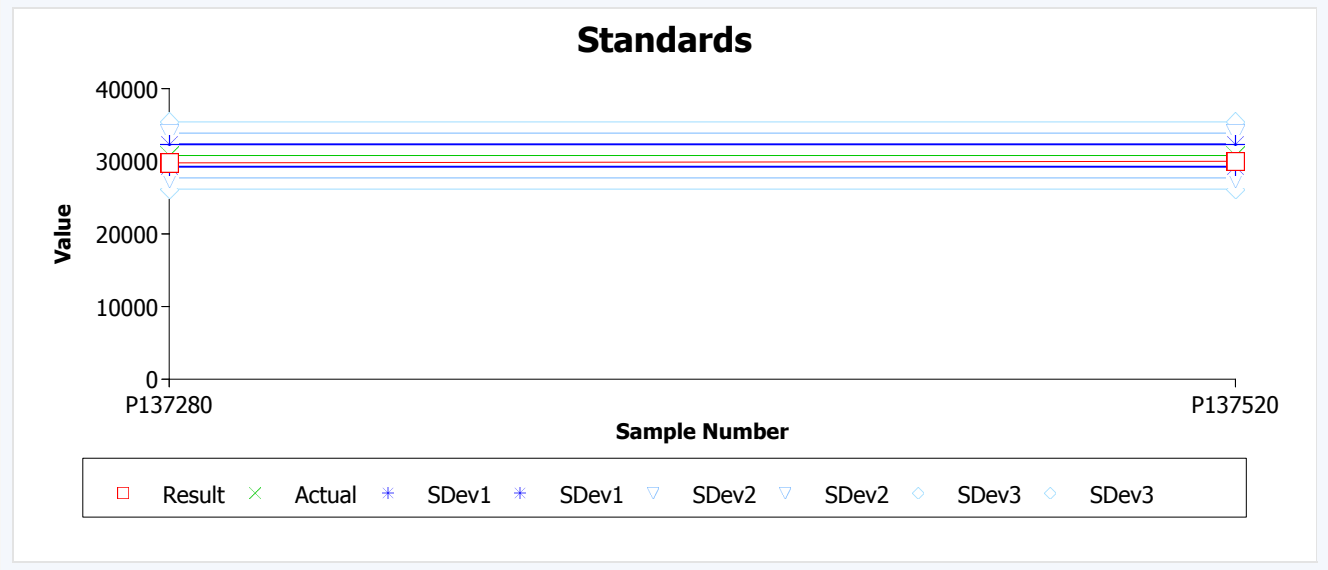
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Au	ppm	ICP22										
P137520	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1100	0.05300000	3			



Cu	ppm	MEICP61a										
P137280	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	29800.0000	1540.00000000	3			
P137520	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	30000.0000	1540.00000000	3			



Pb	ppm	MEICP61a										
P137280	2016-Qiqavik Fiel	VO16124059	2016-08-29	ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	5980.0000	340.00000000	3			

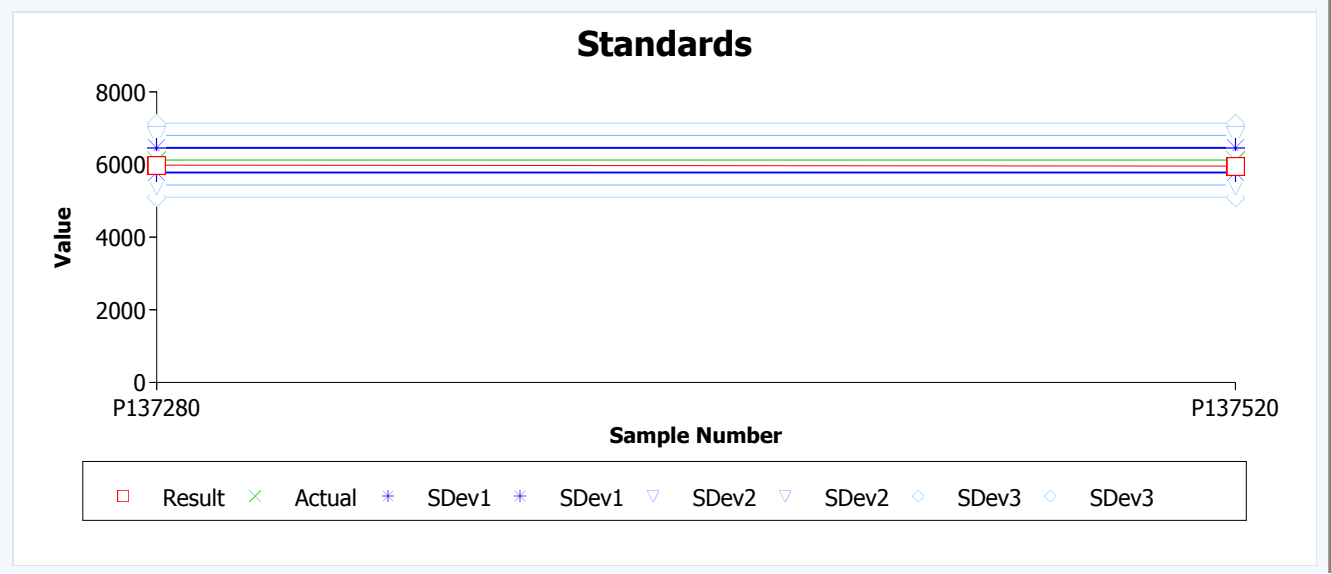
Oct 25, 2016

CONTROL CHARTS

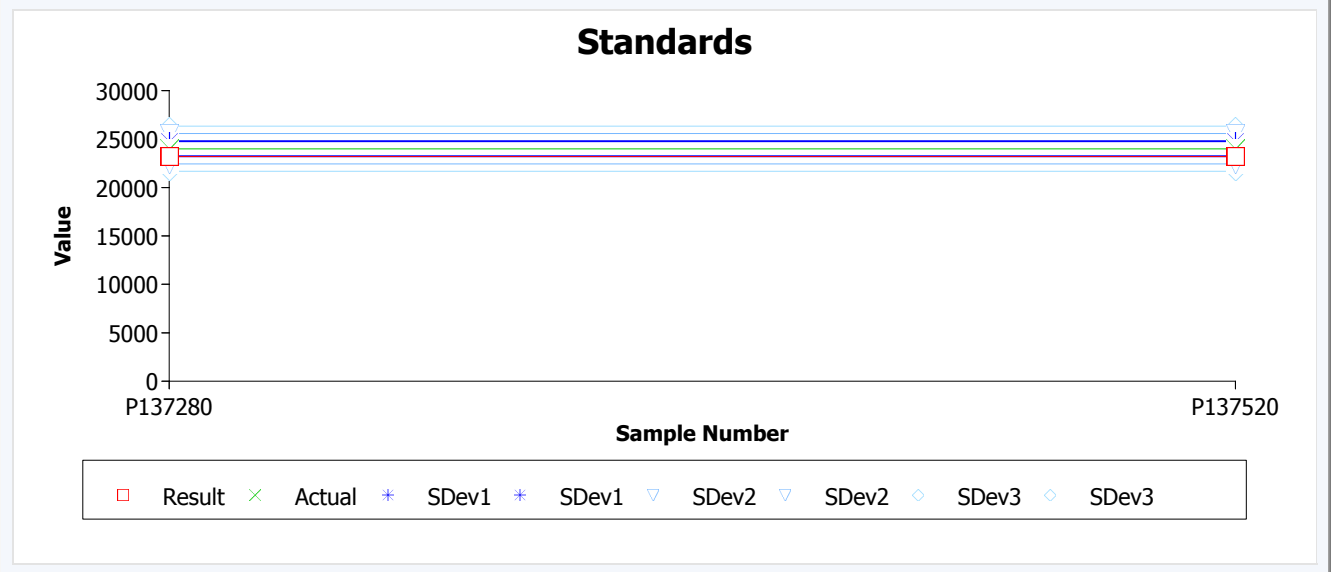
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Pb	ppm	MEICP61a										
P137520		2016-Qiqavik Fiel VO16124059	2016-08-29		ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	5960.0000	340.00000000	3		



Zn	ppm	MEICP61a										
P137280		2016-Qiqavik Fiel VO16124059	2016-08-29		ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23200.0000	780.00000000	3		
P137520		2016-Qiqavik Fiel VO16124059	2016-08-29		ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23200.0000	780.00000000	3		



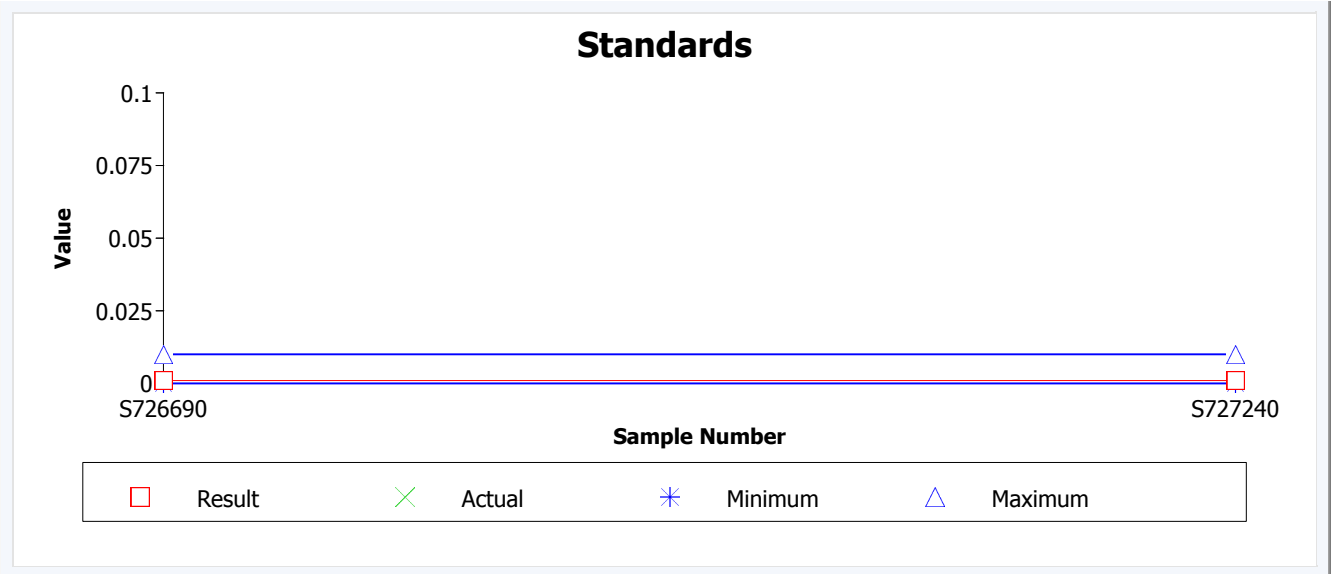
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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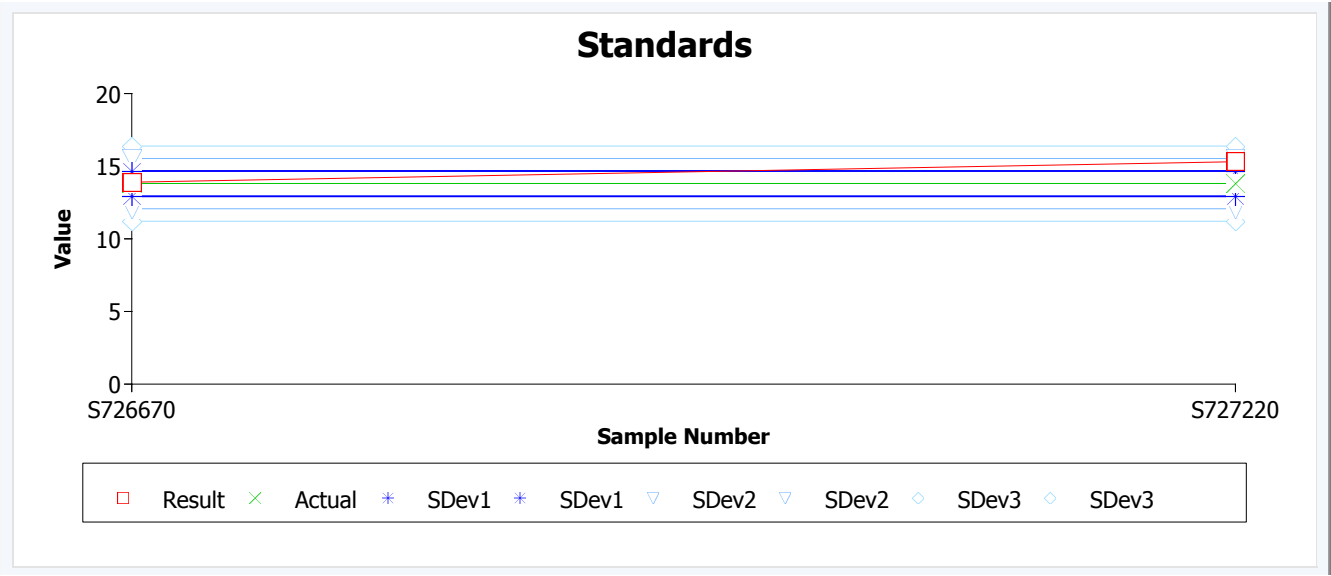
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Au	ppm	ICP22										
S726690		2016-Qiqavik Fiel VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:			0.0010			0.0000	0.0100
S727240		2016-Qiqavik Fiel VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:			0.0010			0.0000	0.0100



OREAS45D

As	ppm	MEMS61										
S726670		2016-Qiqavik Fiel VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.9000	0.86000000	3			
S727220		2016-Qiqavik Fiel VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	15.3000	0.86000000	3			



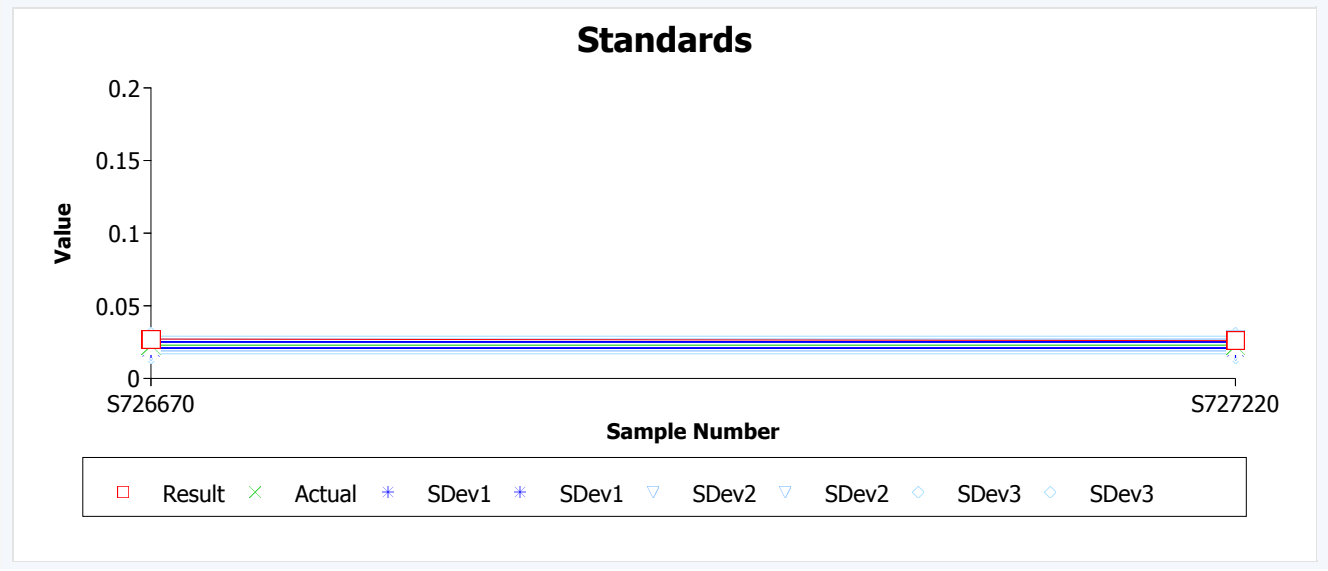
Oct 25, 2016

CONTROL CHARTS

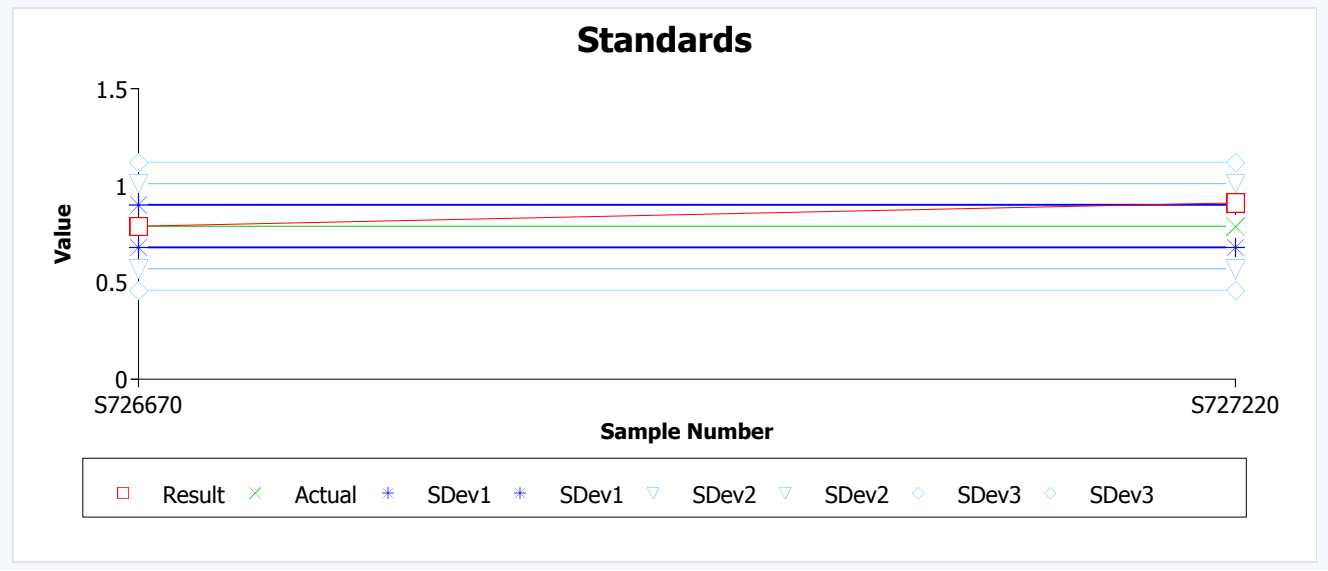
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Au	ppm	ICP22										
S726670	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0230	0.0270	0.00200000	3			
S727220	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0230	0.0260	0.00200000	3			



Be	ppm	MEMS61										
S726670	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7900	0.11000000	3			
S727220	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.9100	0.11000000	3			



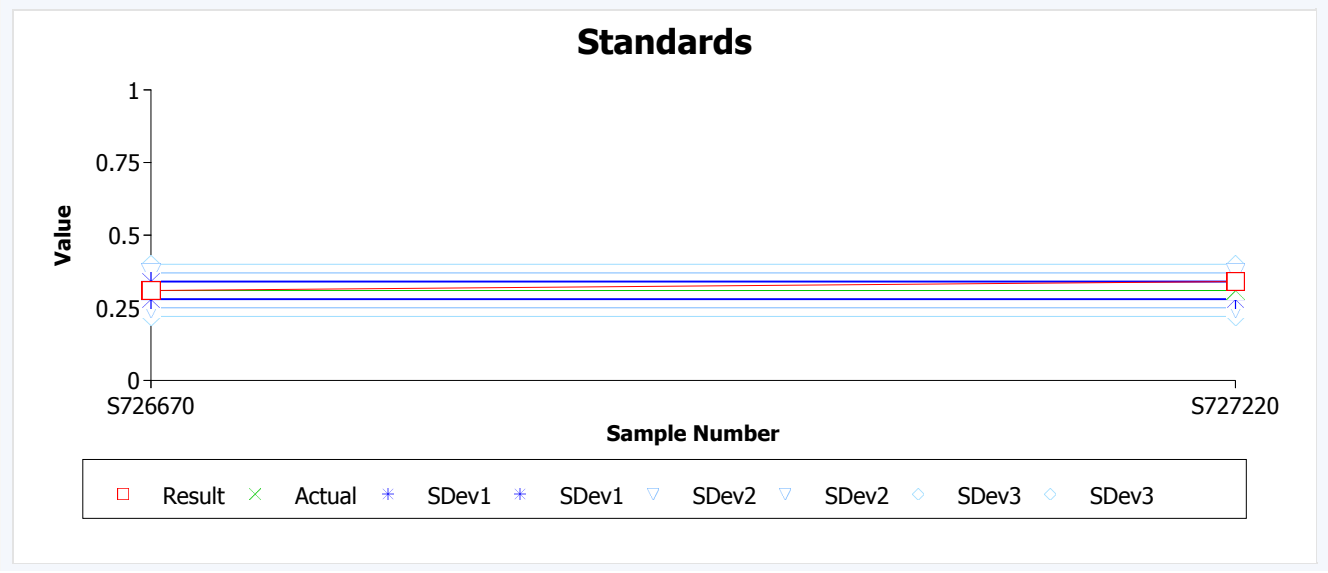
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CONTROL CHARTS

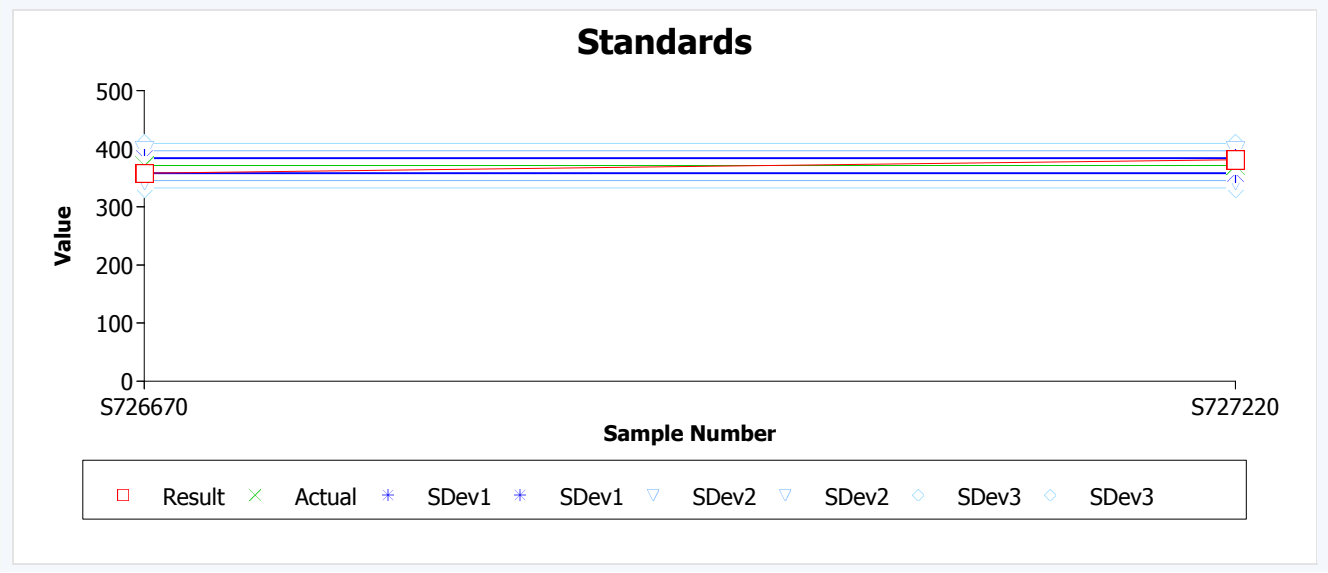
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S726670		2016-Qiqavik Fiel VO16124060	2016-09-09		ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3		
S727220		2016-Qiqavik Fiel VO16124060	2016-09-09		ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3400	0.03000000	3		



Cu	ppm	MEMS61										
S726670		2016-Qiqavik Fiel VO16124060	2016-09-09		ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	358.0000	12.80000000	3		
S727220		2016-Qiqavik Fiel VO16124060	2016-09-09		ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	381.0000	12.80000000	3		



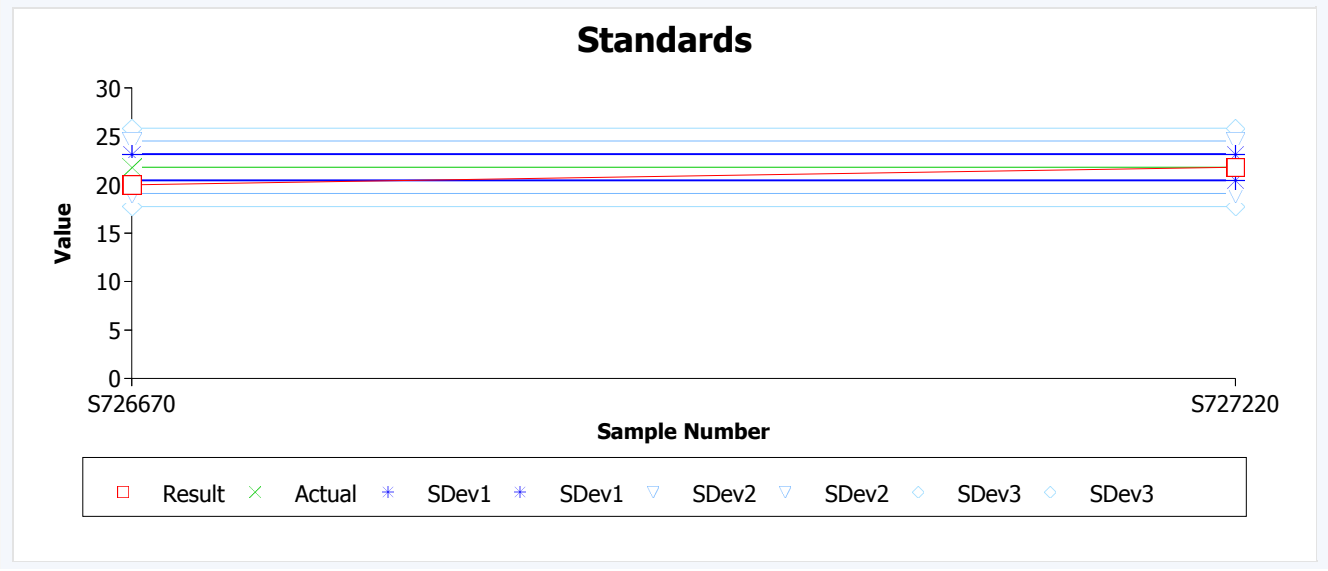
Oct 25, 2016

CONTROL CHARTS

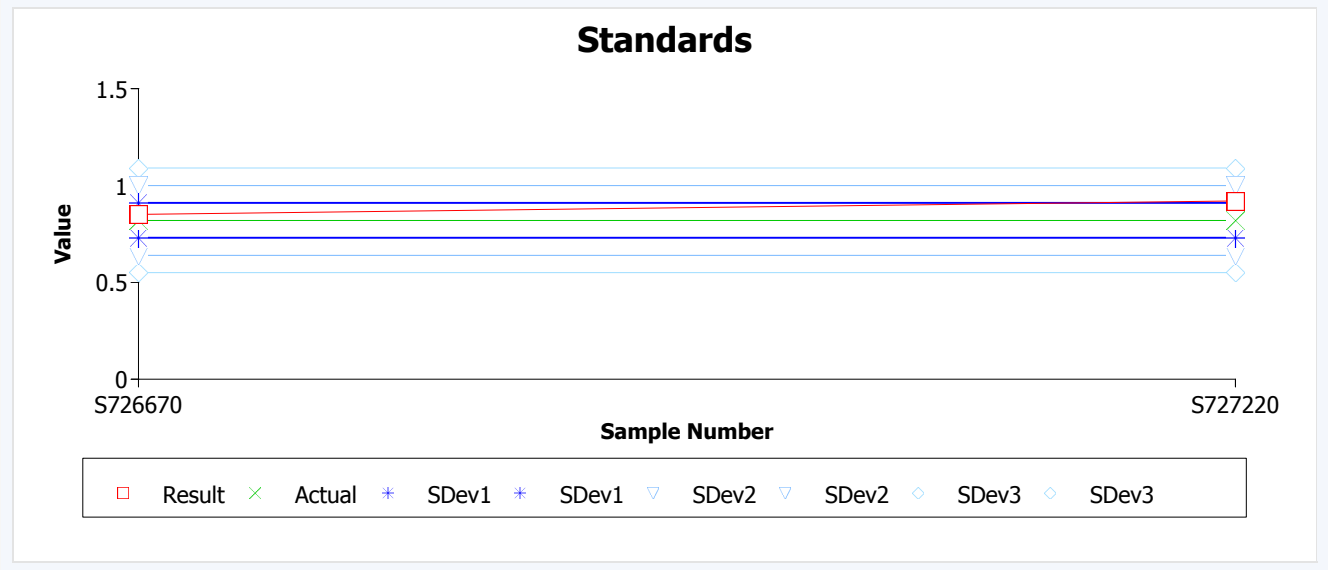
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S726670	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.0000	1.35000000	3			
S727220	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	21.8000	1.35000000	3			



Sb	ppm	MEMS61										
S726670	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8500	0.09000000	3			
S727220	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9200	0.09000000	3			



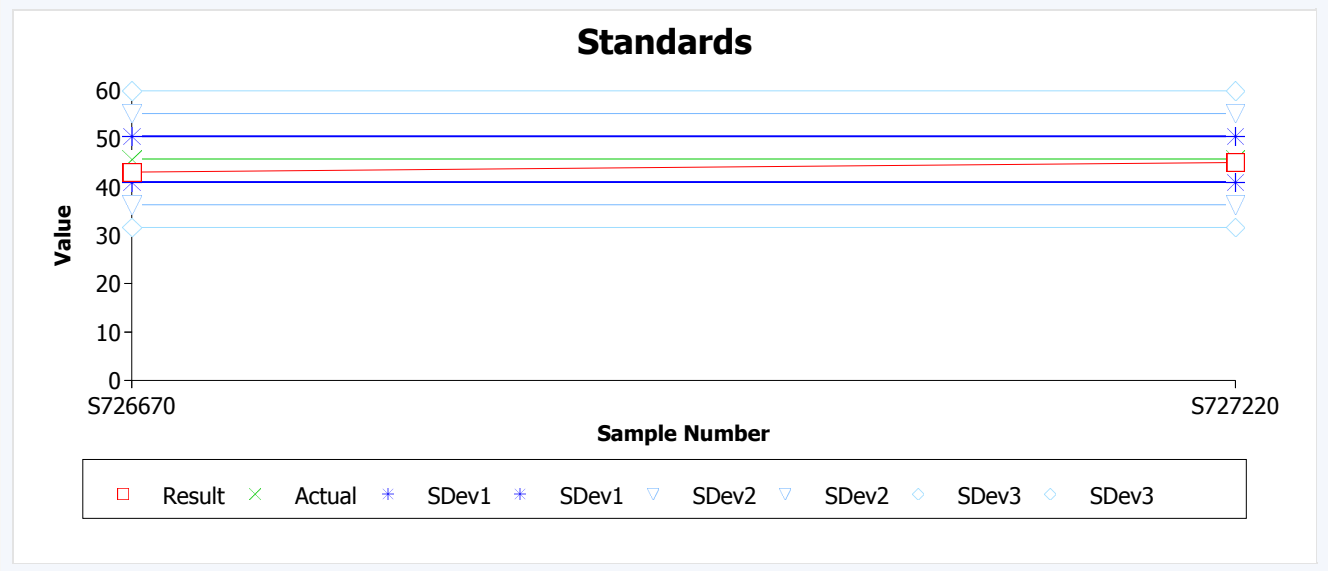
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Zn	ppm	MEMS61										
S726670	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			
S727220	2016-Qiqavik Fiel	VO16124060	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	45.0000	4.70000000	3			



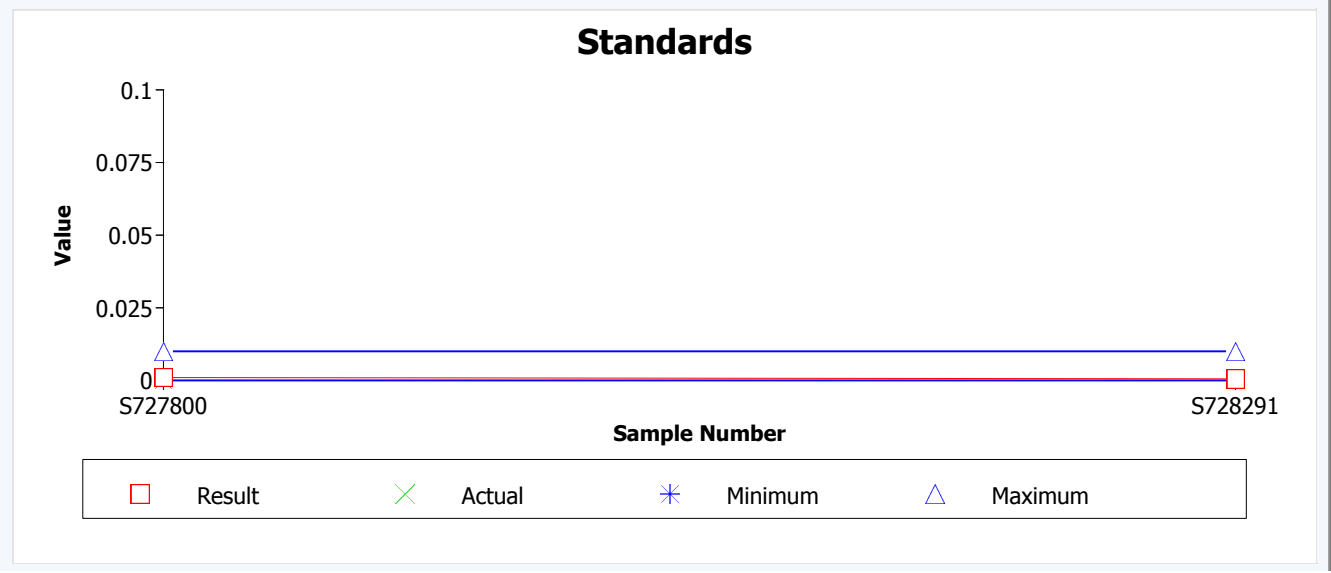
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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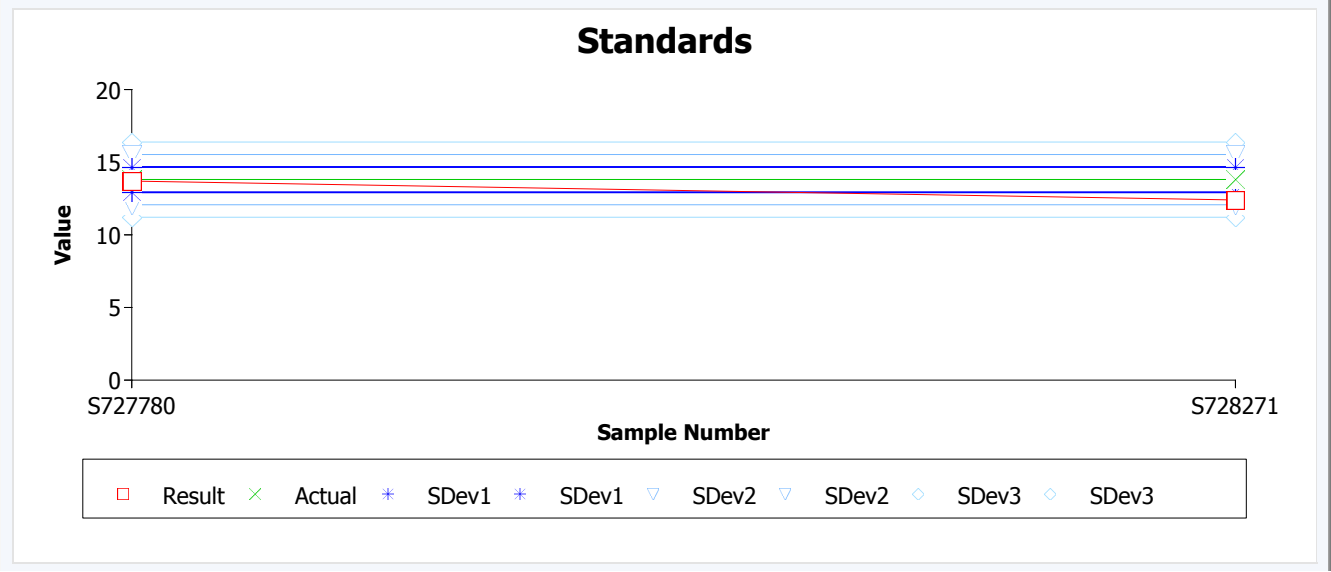
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Au	ppm	ICP22										
S727800		2016-Qiqavik Fiel VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:			0.0010			0.0000	0.0100
S728291		2016-Qiqavik Fiel VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:			0.0005			0.0000	0.0100



OREAS45D

As	ppm	MEMS61										
S727780		2016-Qiqavik Fiel VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.7000	0.86000000	3			
S728271		2016-Qiqavik Fiel VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	12.4000	0.86000000	3			



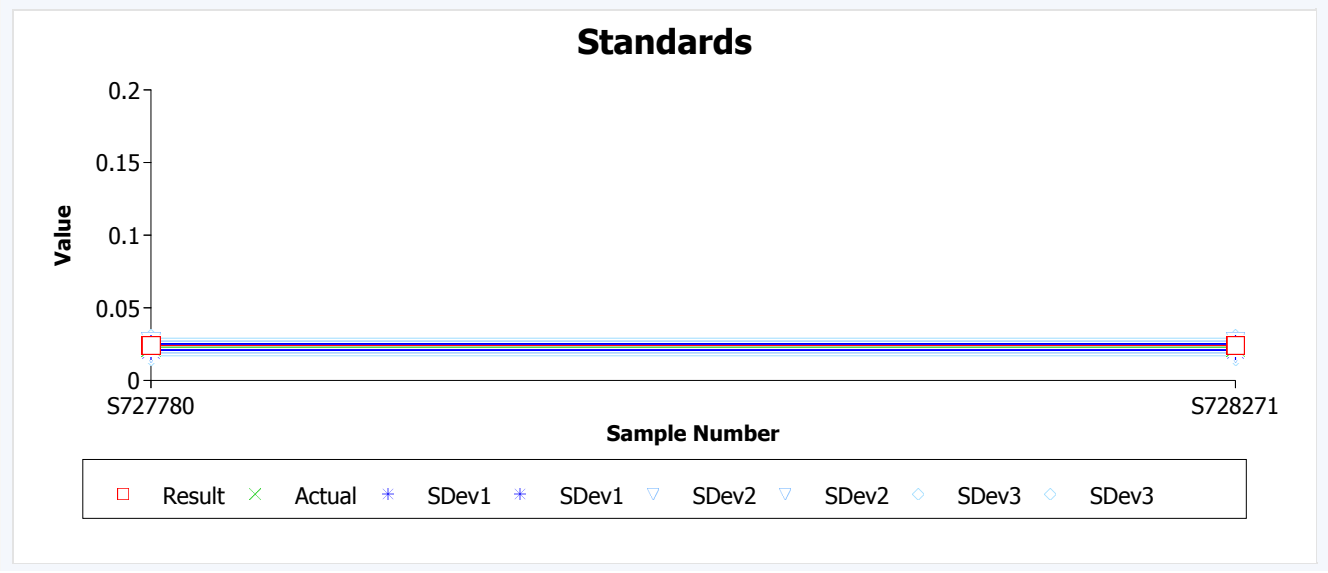
Oct 25, 2016

CONTROL CHARTS

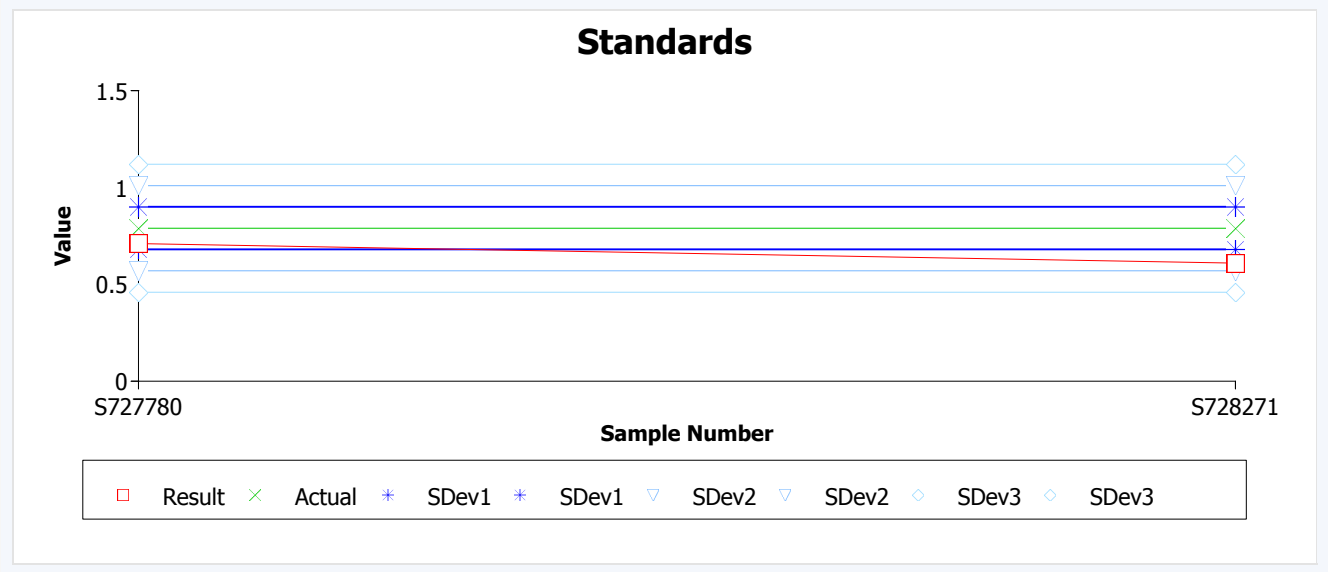
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Au	ppm	ICP22										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0230	0.0240	0.00200000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0230	0.0240	0.00200000	3			



Be	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7100	0.11000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.6100	0.11000000	3			



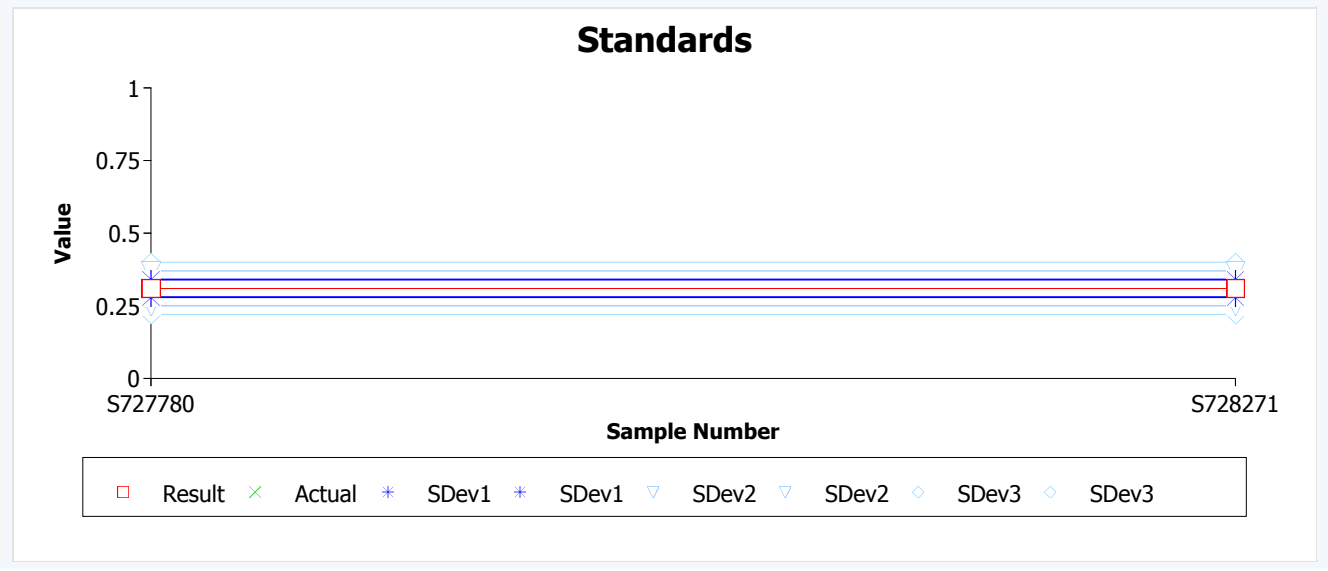
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CONTROL CHARTS

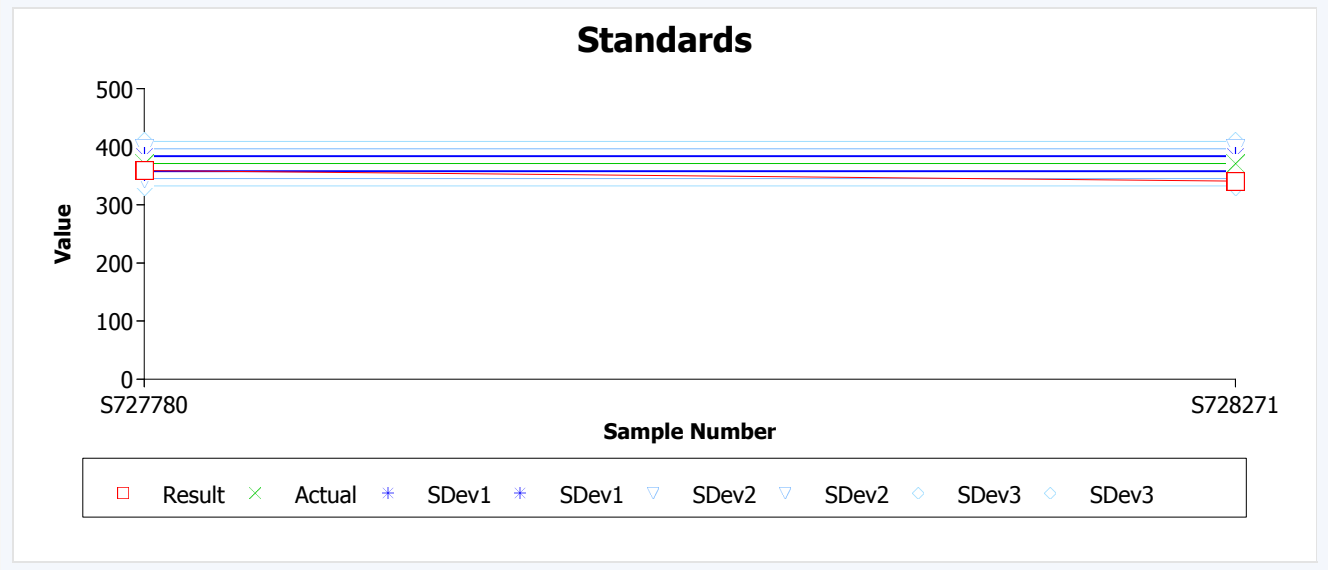
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			



Cu	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	359.0000	12.80000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	341.0000	12.80000000	3			



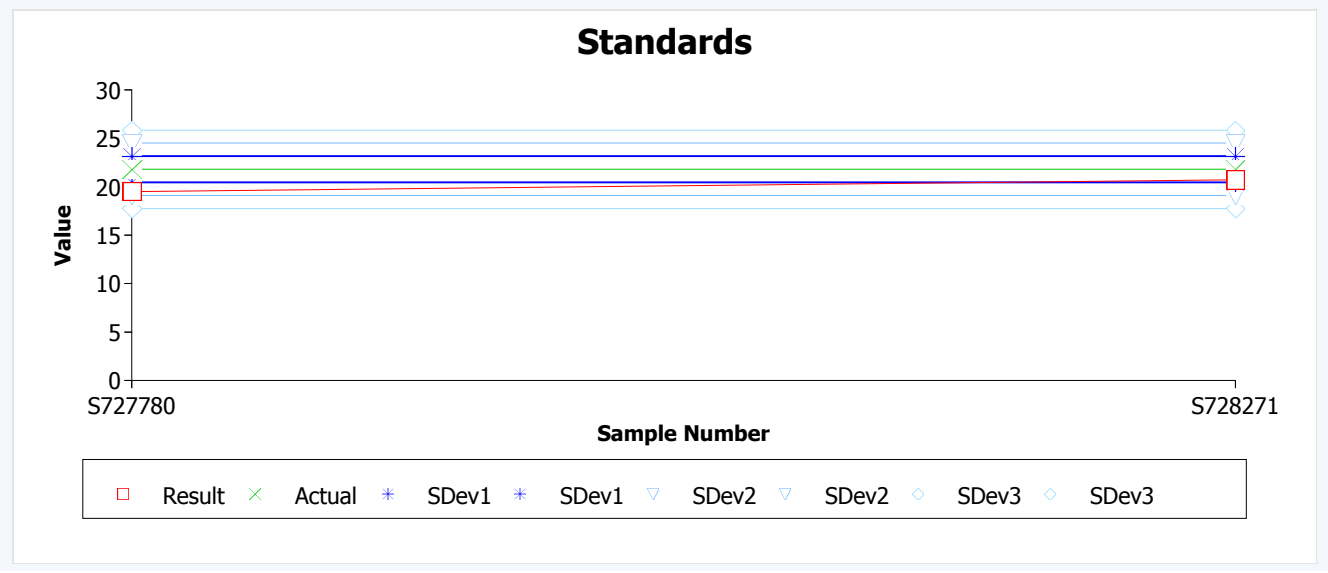
Oct 25, 2016

CONTROL CHARTS

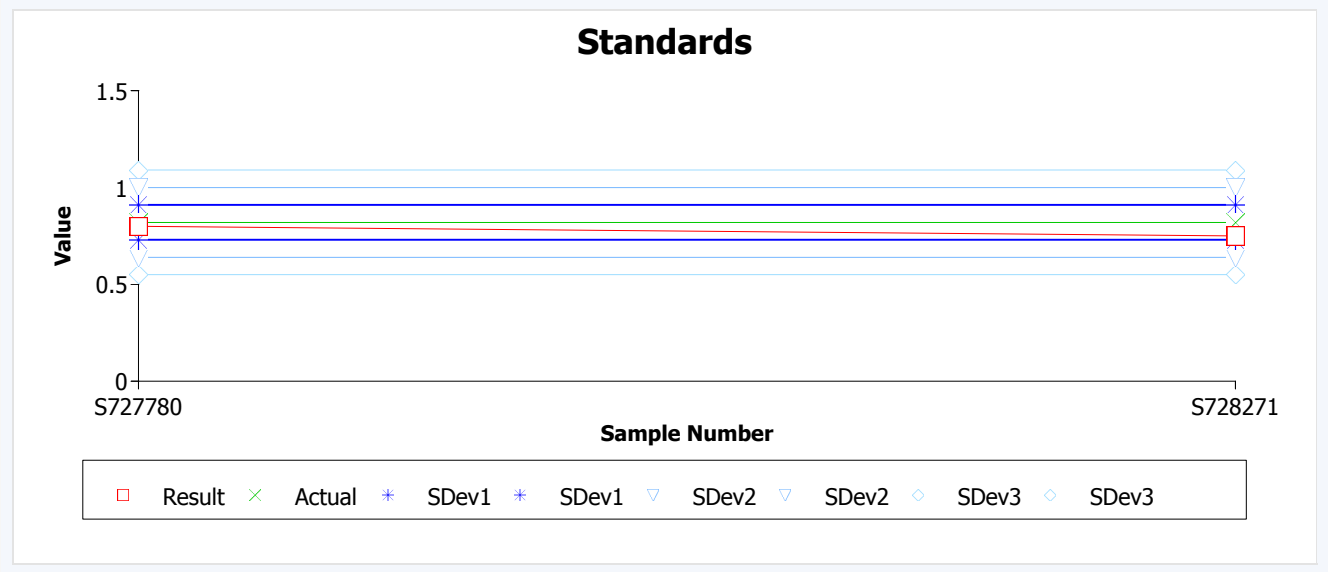
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	19.5000	1.35000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.7000	1.35000000	3			



Sb	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8000	0.09000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.7500	0.09000000	3			



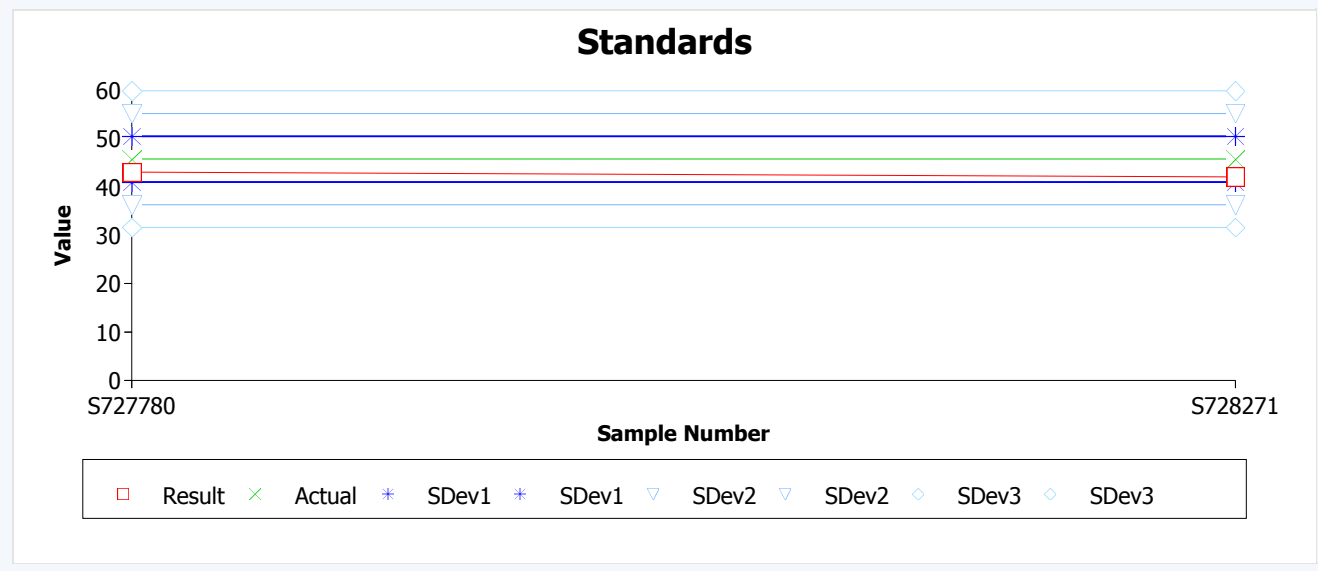
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Zn	ppm	MEMS61										
S727780	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			
S728271	2016-Qiqavik Fiel	VO16124063	2016-08-29	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	42.0000	4.70000000	3			



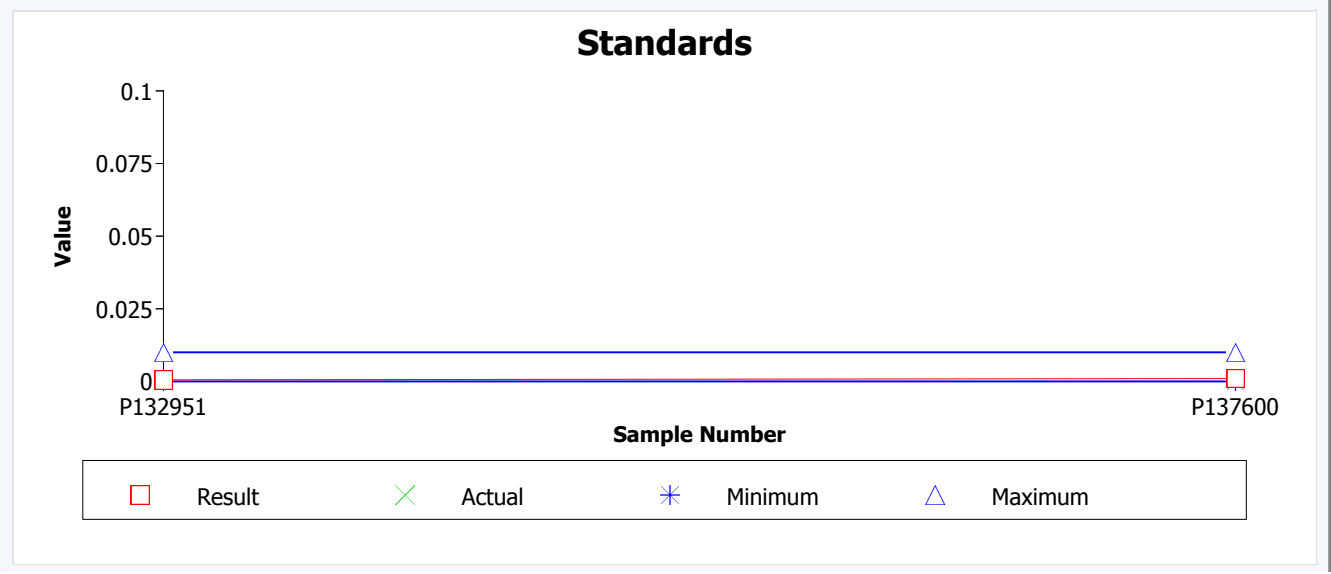
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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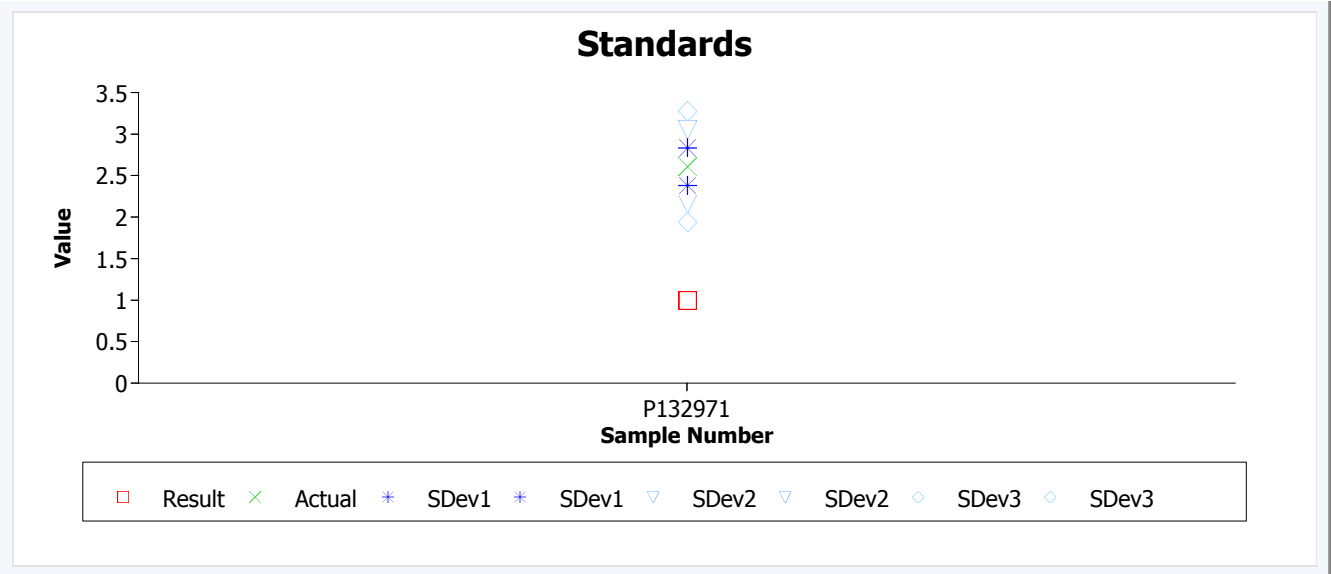
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Au	ppm	ICP22										
P132951		2016-Qiqavik Fiel VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0005			0.0000	0.0100
P137600		2016-Qiqavik Fiel VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0010			0.0000	0.0100



OREAS523

Ag	ppm	MEICP61a										
P132971		2016-Qiqavik Fiel VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.6100	1.0000	0.22300000	3			



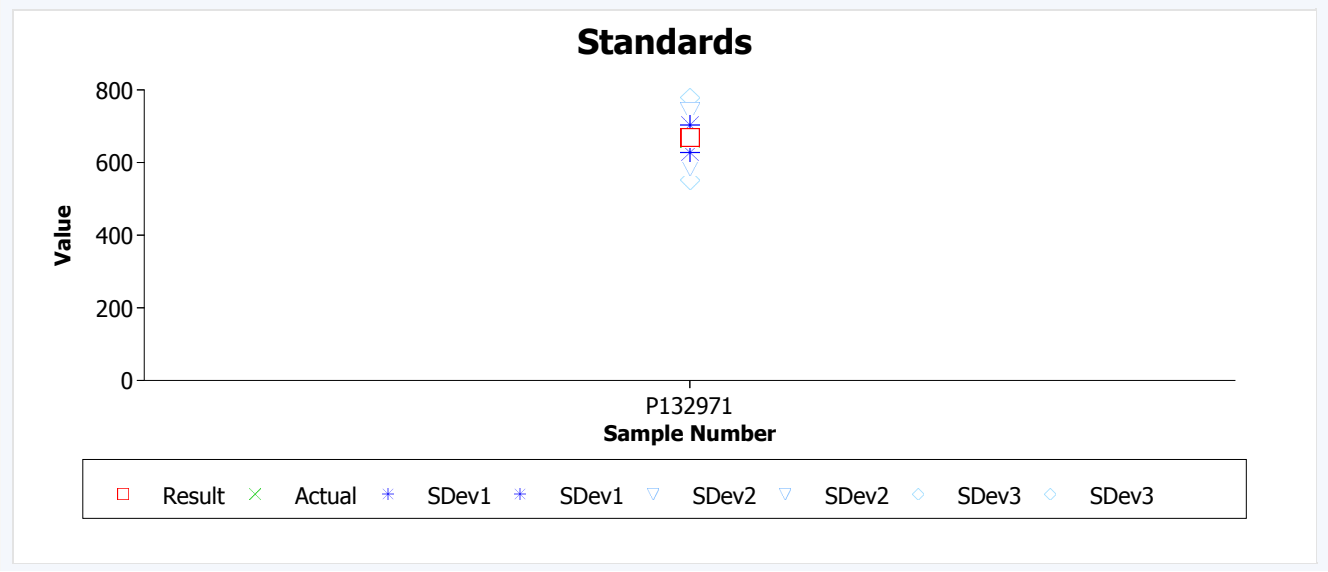
Oct 25, 2016

CONTROL CHARTS

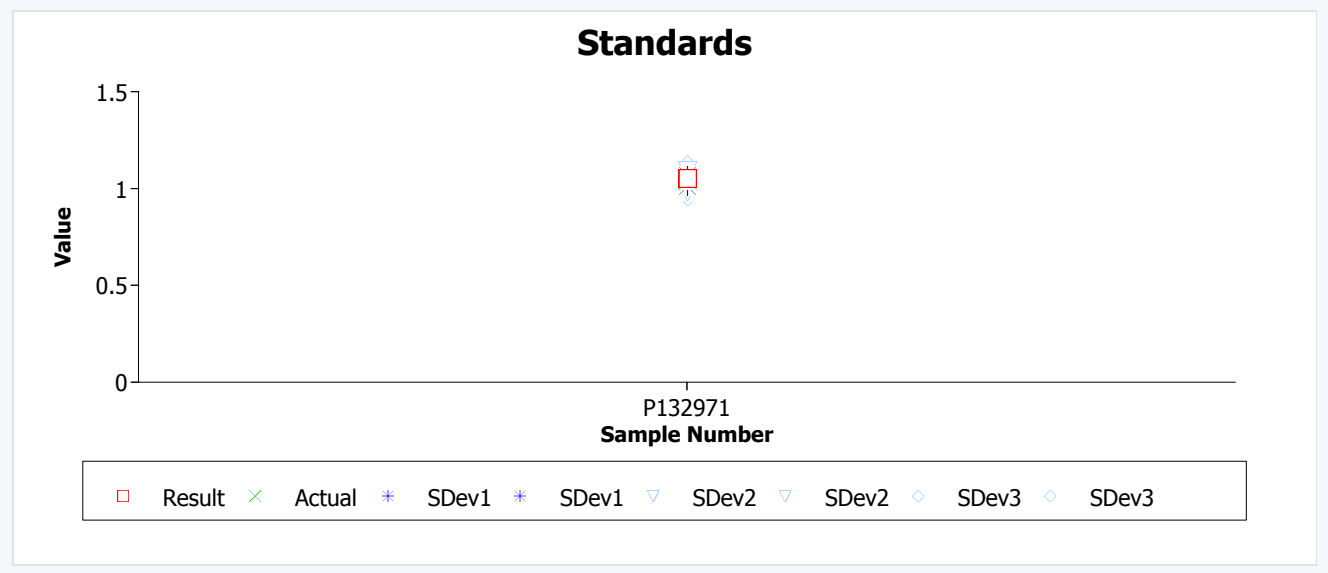
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS523

As	ppm	MEICP61a										
P132971		2016-Qiqavik Fiel VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	666.0000	670.0000	38.00000000	3			



Au	ppm	ICP22										
P132971		2016-Qiqavik Fiel VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.0400	1.0500	0.02700000	3			



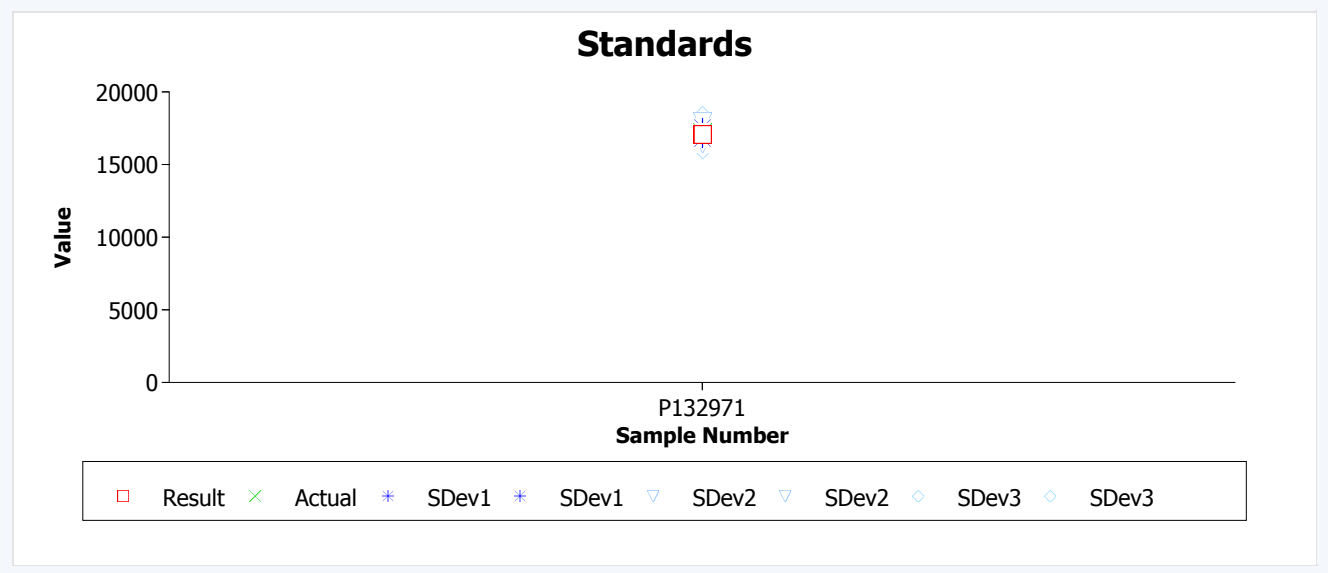
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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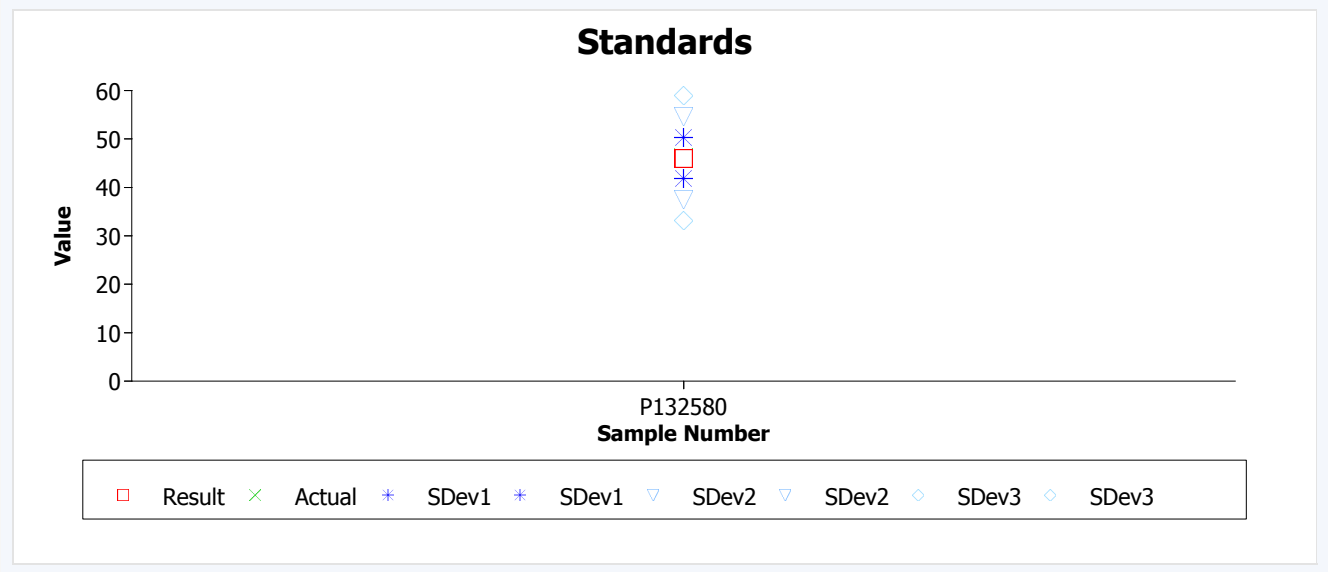
OREAS523

Cu	ppm	MEICP61a										
P132971	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	17200.0000	17100.0000	380.00000000	3			



OREAS624

Ag	ppm	MEICP61a										
P132580	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	46.0000	4.29000000	3			



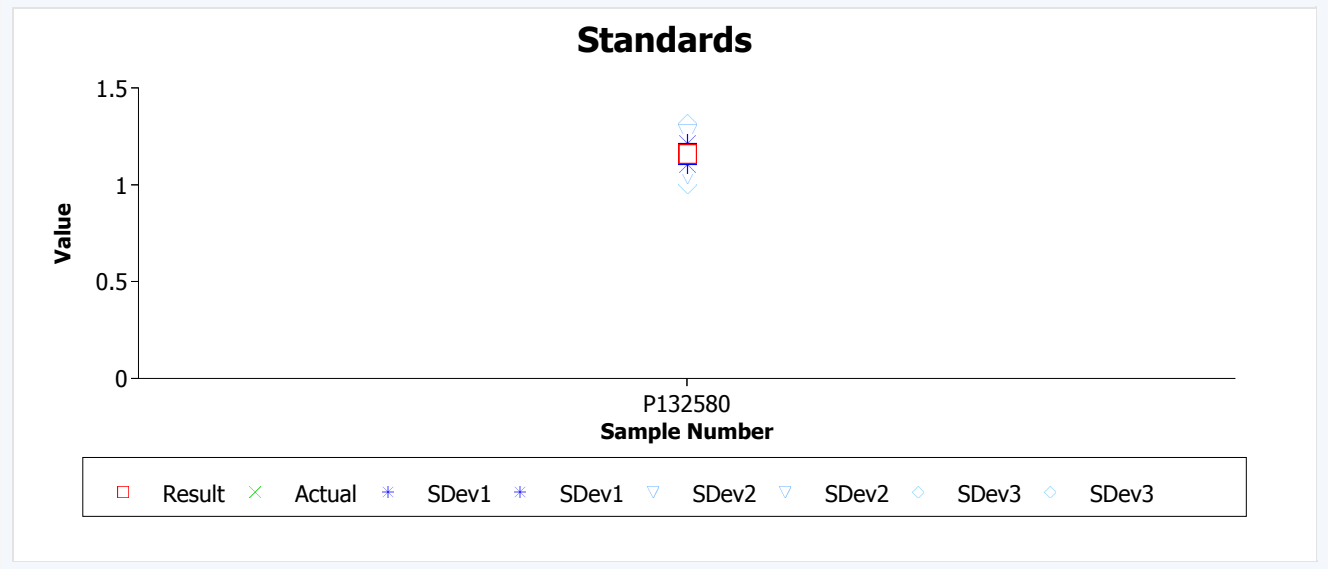
Oct 25, 2016

CONTROL CHARTS

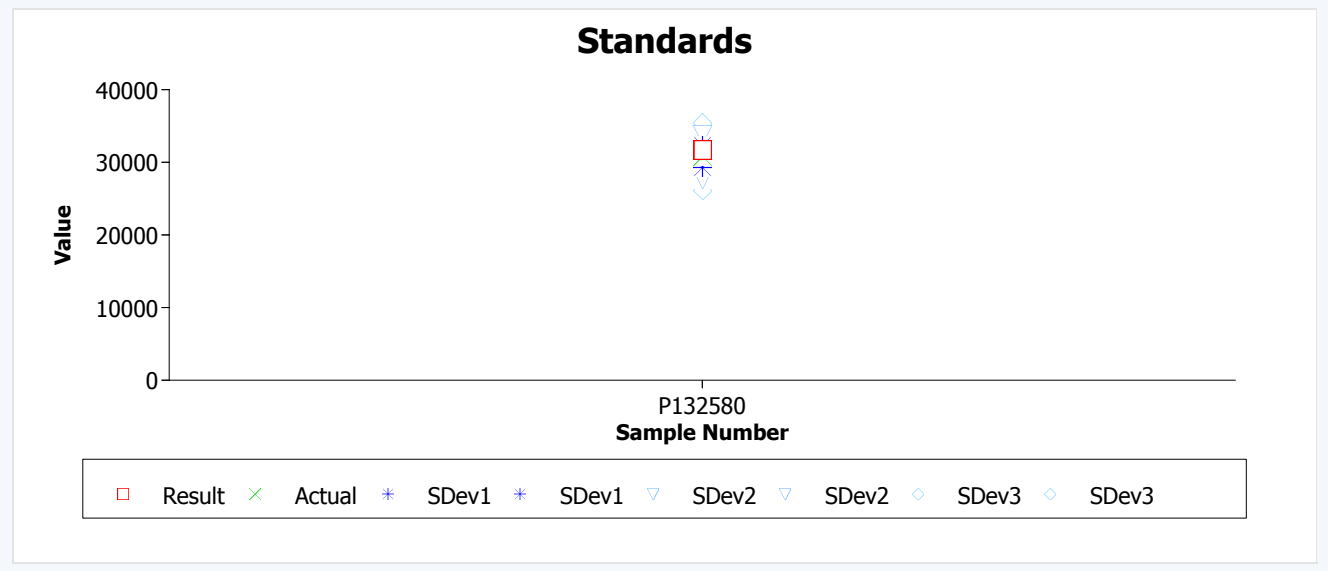
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Au	ppm	ICP22										
P132580	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1600	0.05300000	3			



Cu	ppm	MEICP61a										
P132580	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	31700.0000	1540.00000000	3			



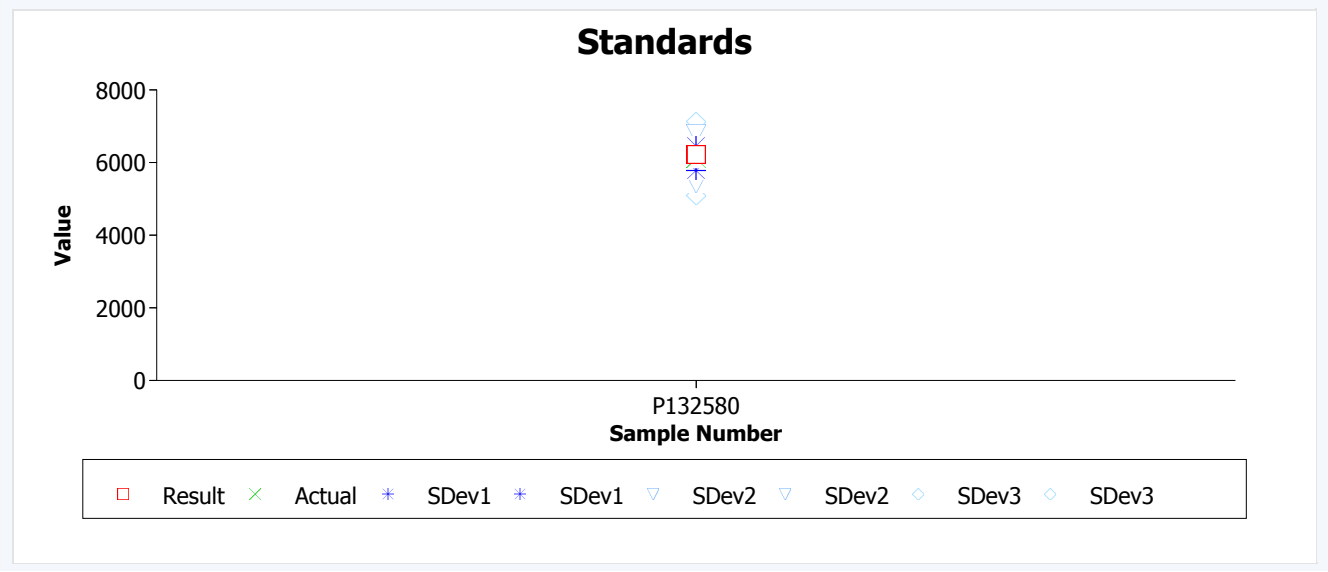
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CONTROL CHARTS

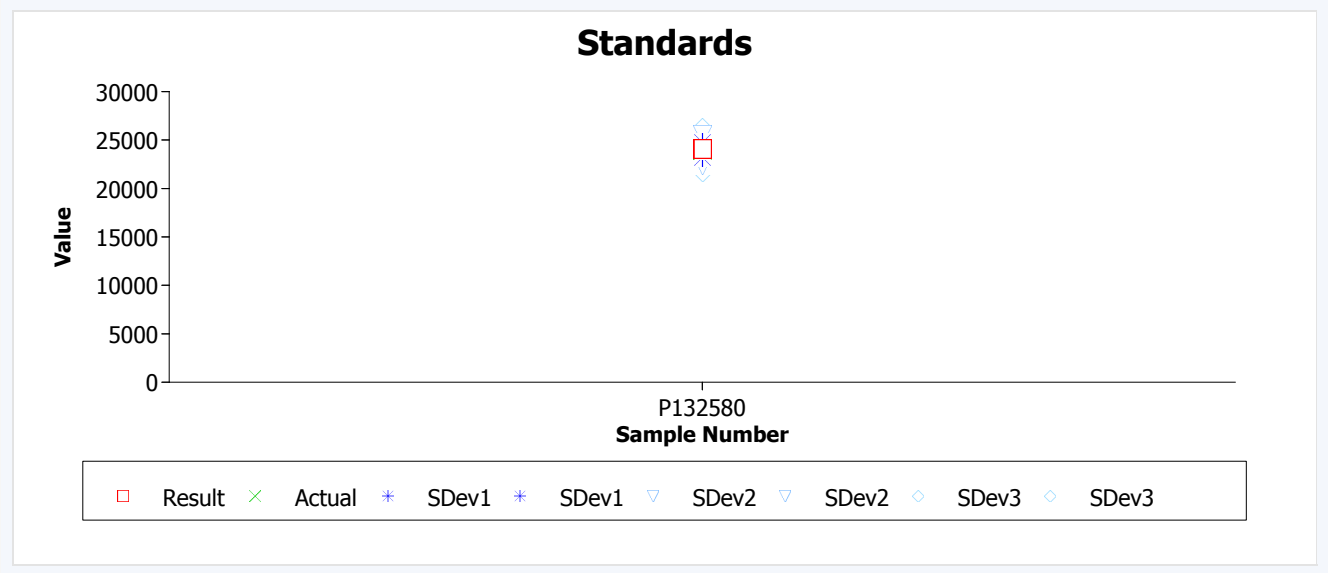
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Pb	ppm	MEICP61a										
P132580	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6220.0000	340.00000000	3			



Zn	ppm	MEICP61a										
P132580	2016-Qiqavik Fiel	VO16127853	2016-08-22	ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	24100.0000	780.00000000	3			



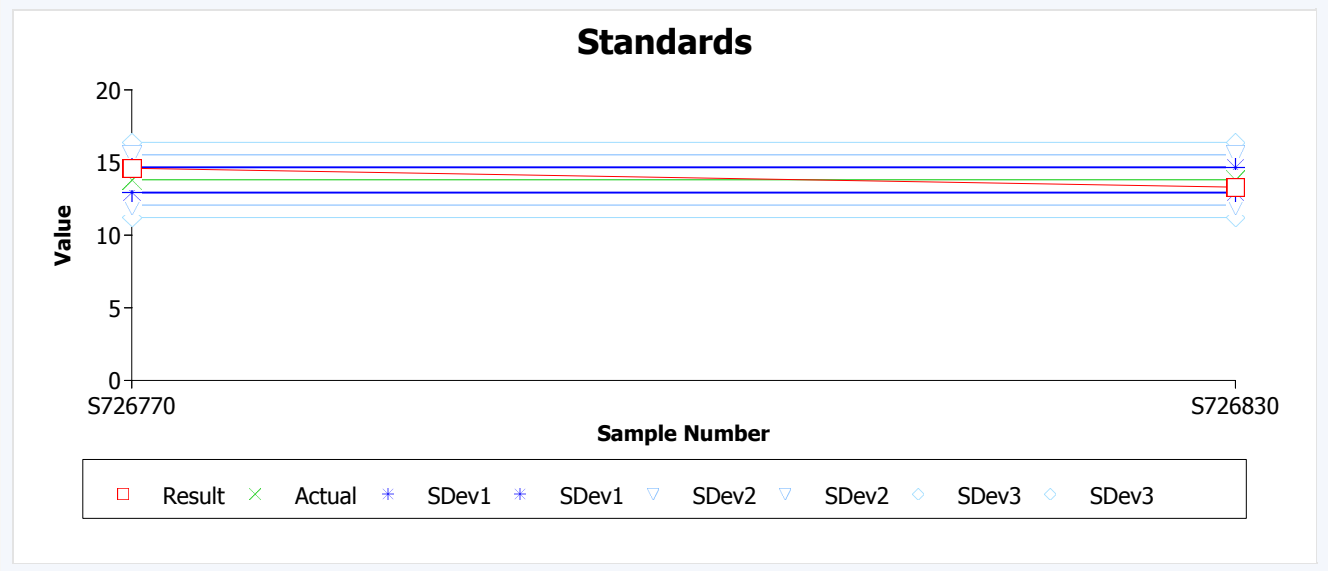
Oct 25, 2016

CONTROL CHARTS

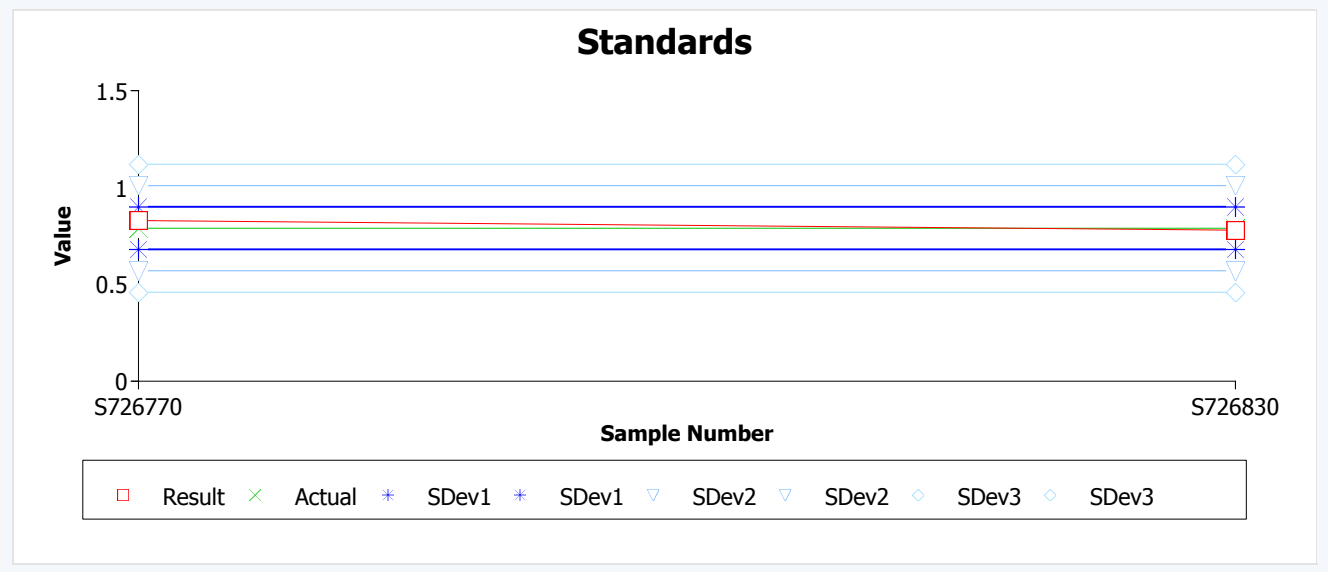
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	14.6000	0.86000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.3000	0.86000000	3			



Be	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.8300	0.11000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7800	0.11000000	3			



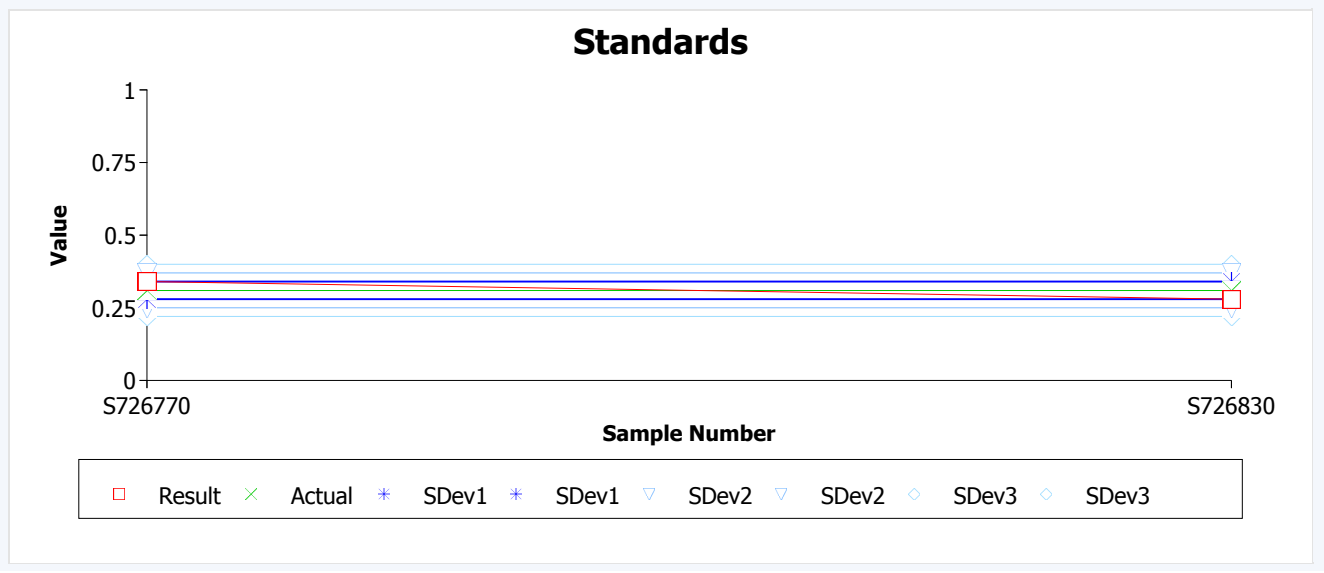
Oct 25, 2016

CONTROL CHARTS

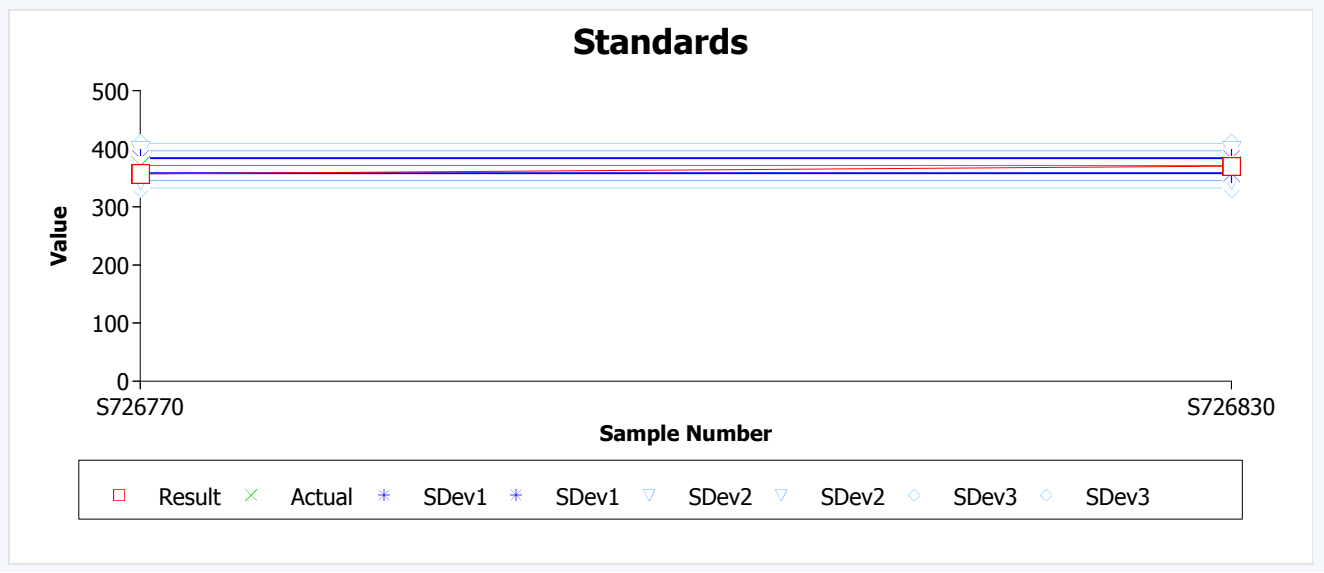
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3400	0.03000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.2800	0.03000000	3			



Cu	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	357.0000	12.80000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	370.0000	12.80000000	3			



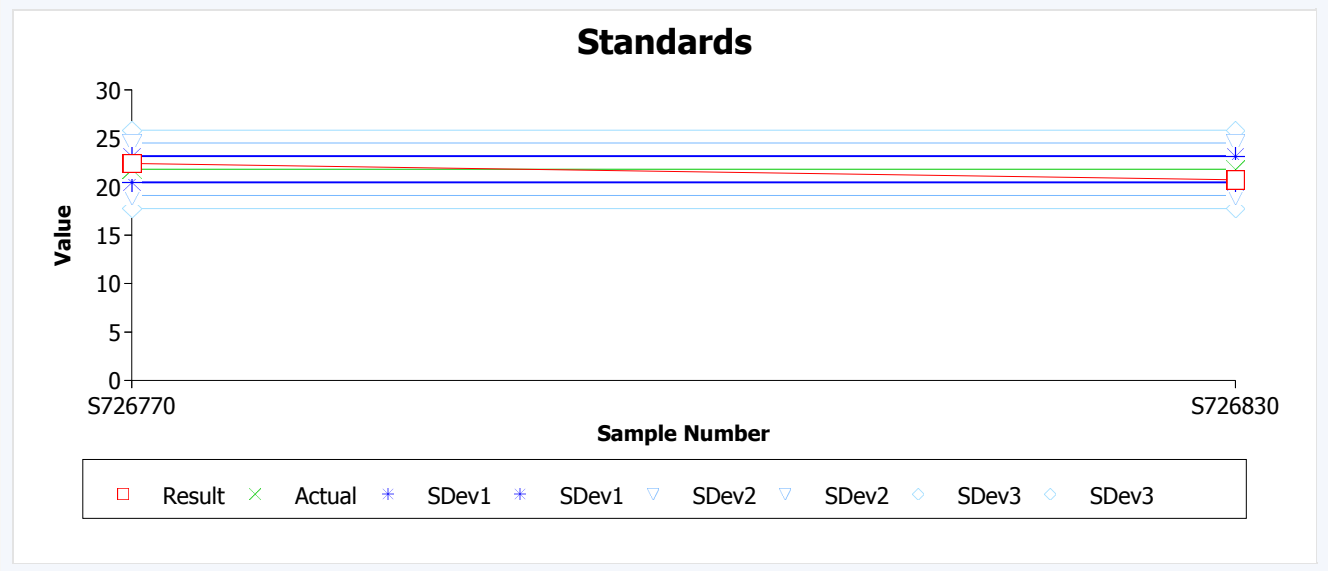
Oct 25, 2016

CONTROL CHARTS

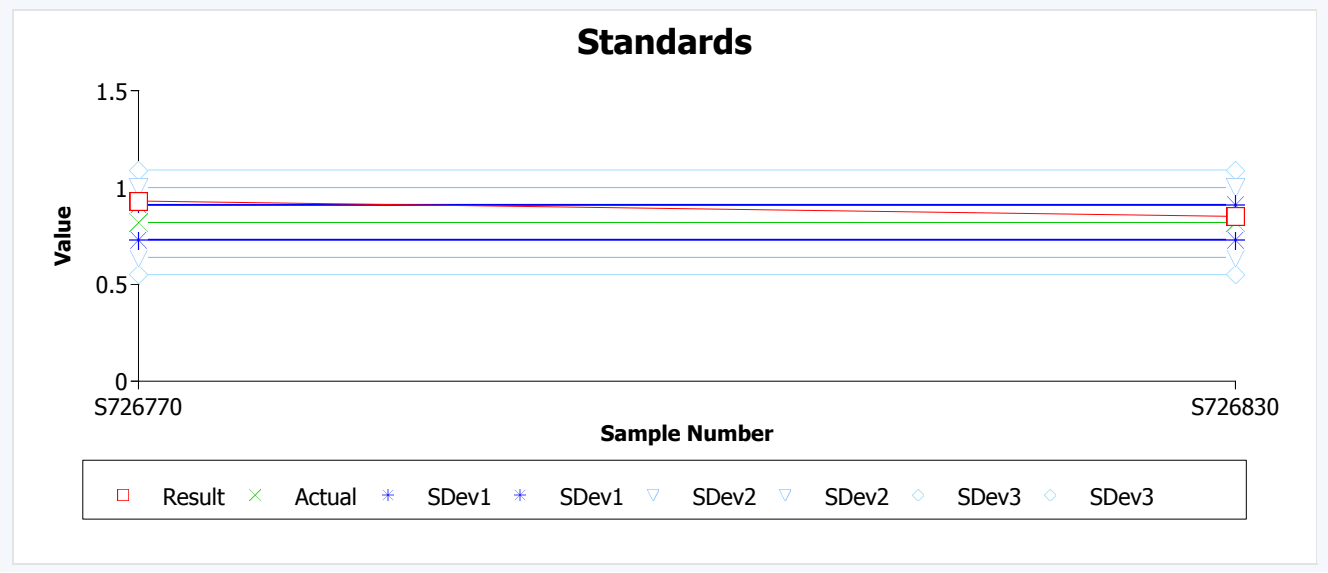
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	22.4000	1.35000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.7000	1.35000000	3			



Sb	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9300	0.09000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8500	0.09000000	3			



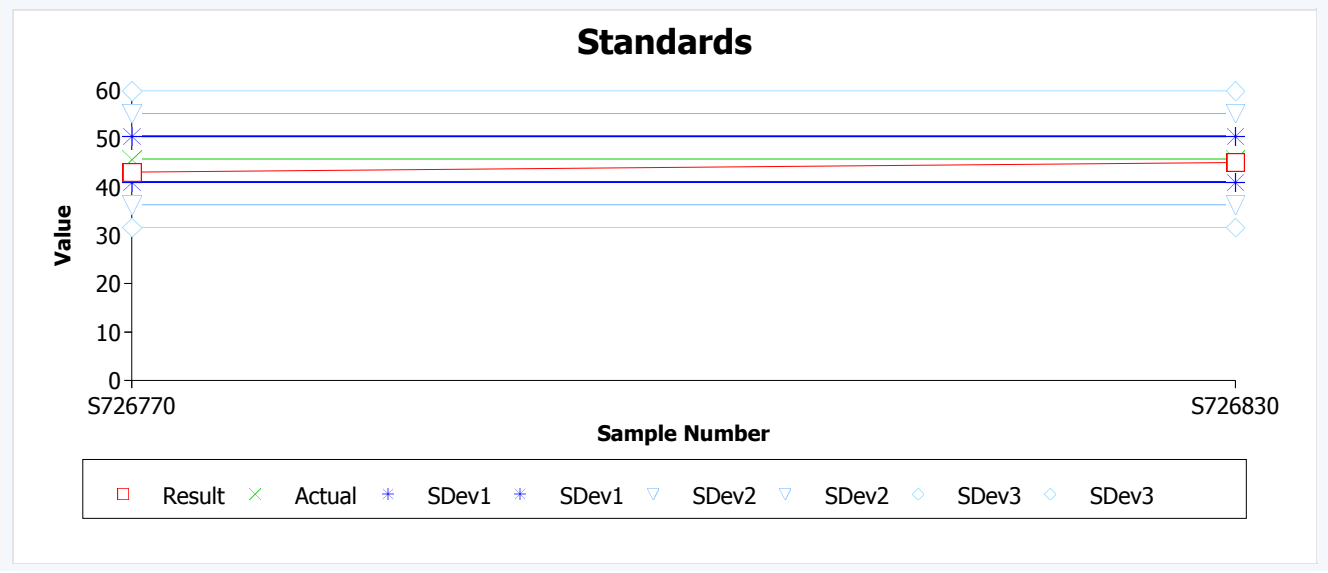
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CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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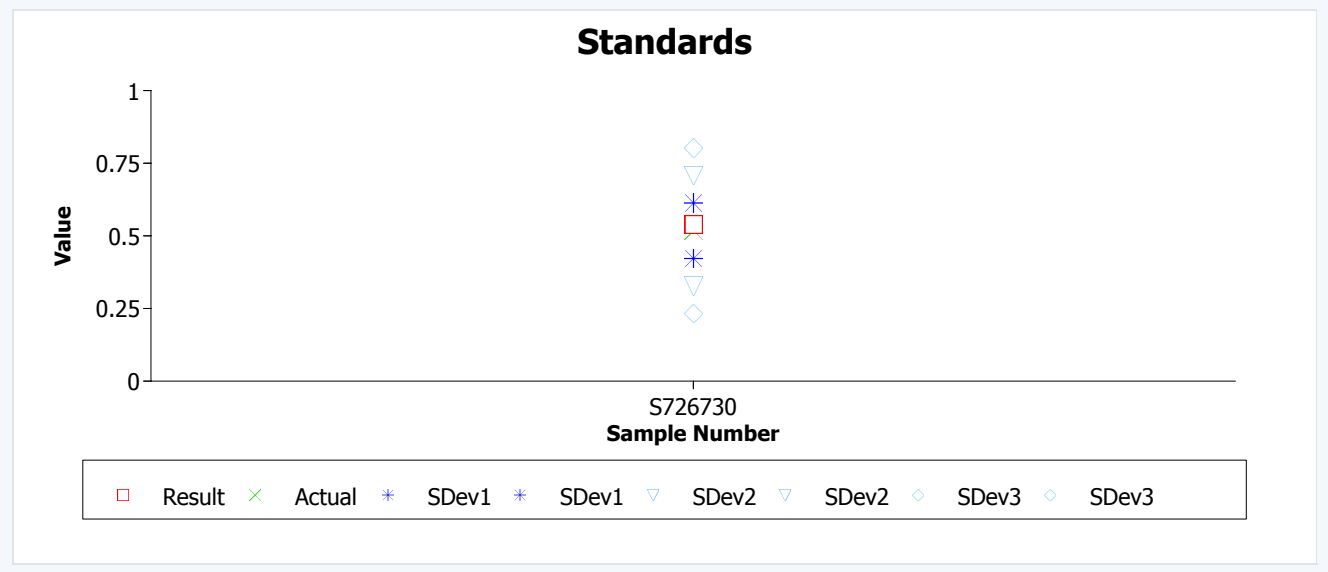
OREAS45D

Zn	ppm	MEMS61										
S726770	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			
S726830	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	45.0000	4.70000000	3			



OREAS905

Ag	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5400	0.09500000	3			



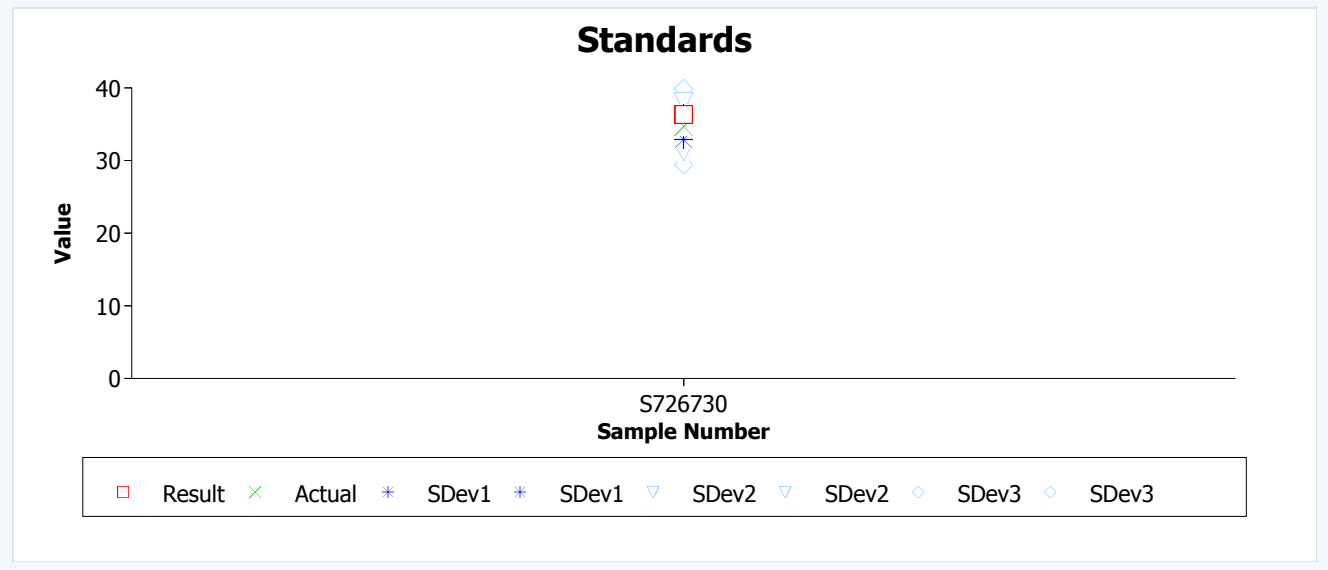
Oct 25, 2016

CONTROL CHARTS

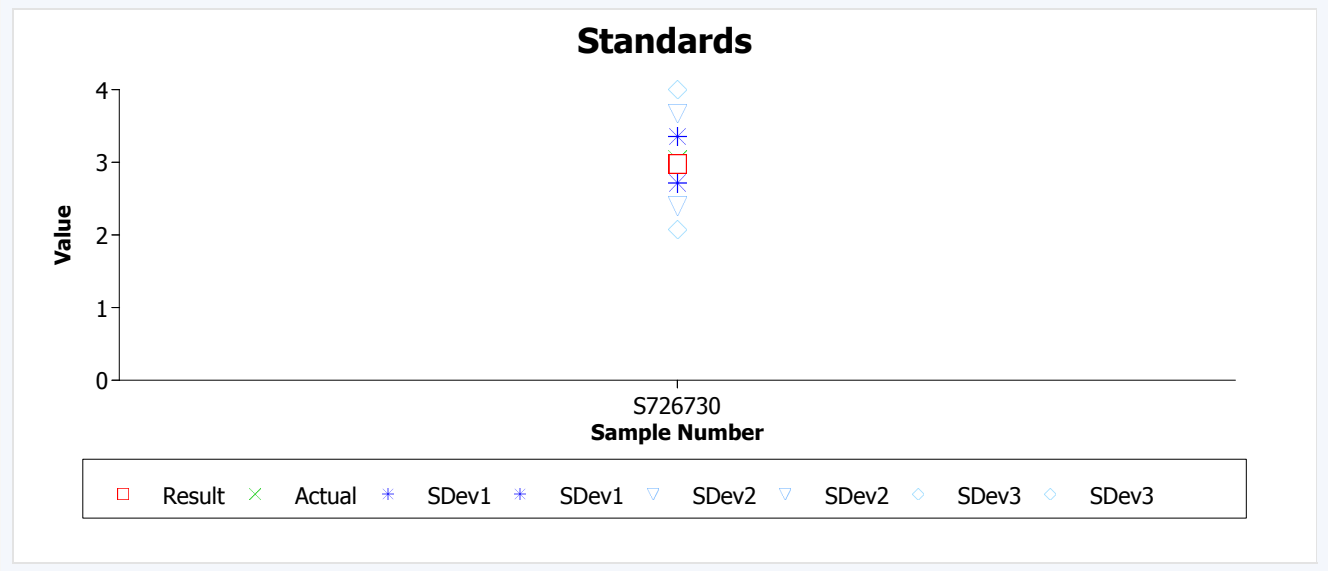
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

As	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	36.4000	1.74000000	3			



Be	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	2.9800	0.32000000	3			



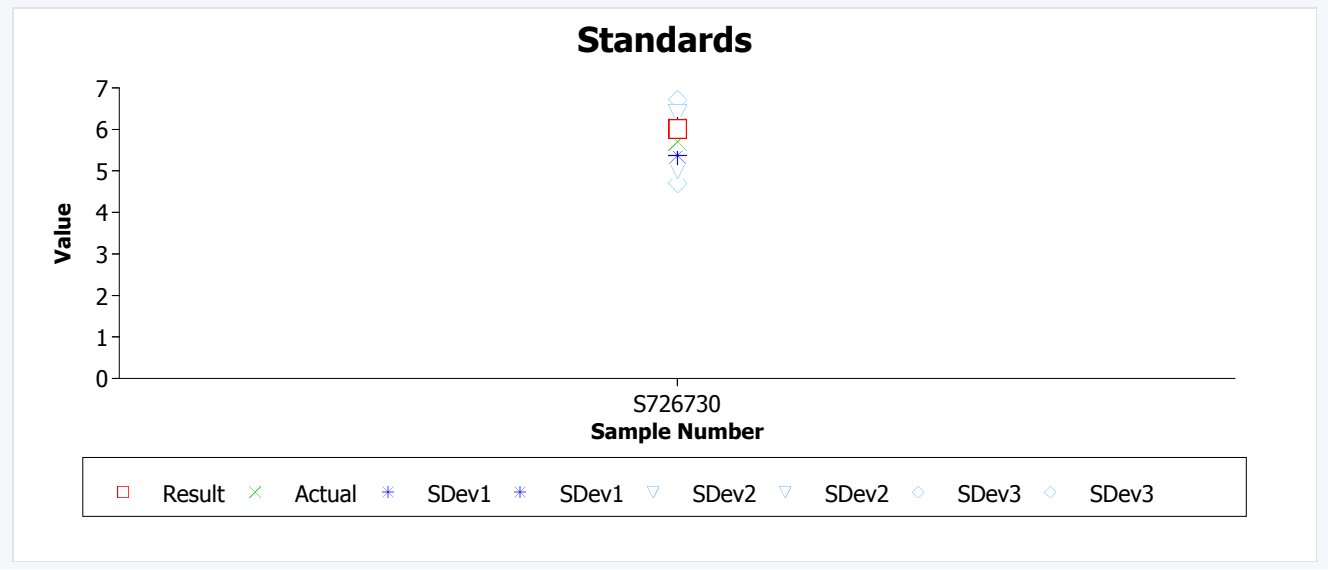
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CONTROL CHARTS

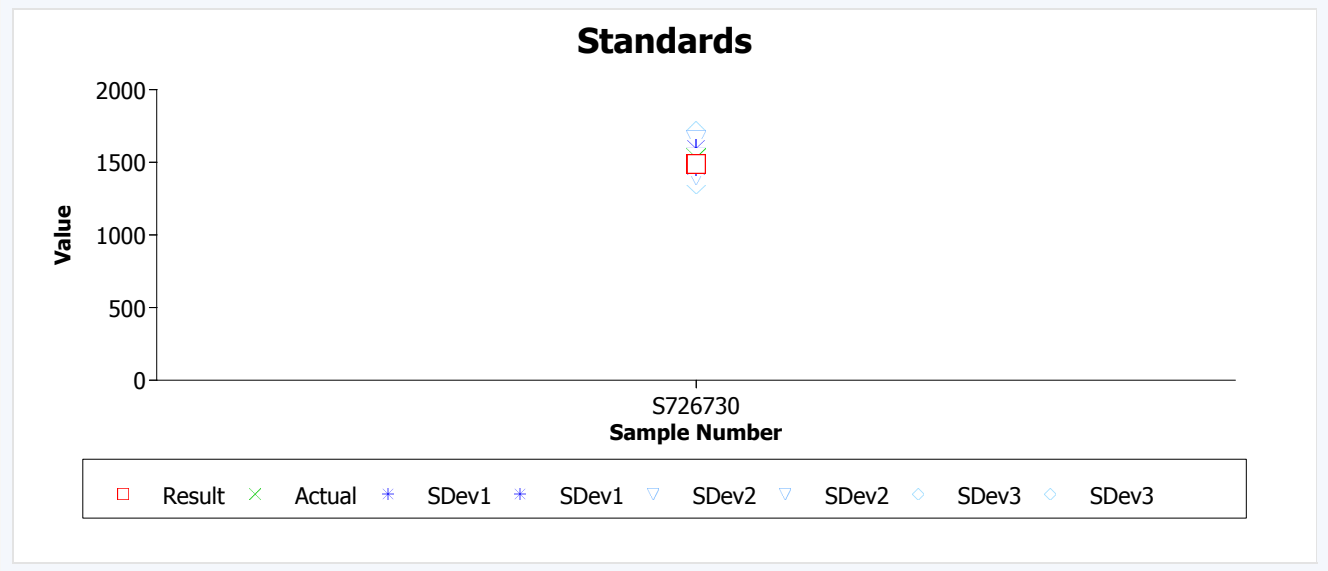
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Bi	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	6.0100	0.33700000	3			



Cu	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1490.0000	61.00000000	3			



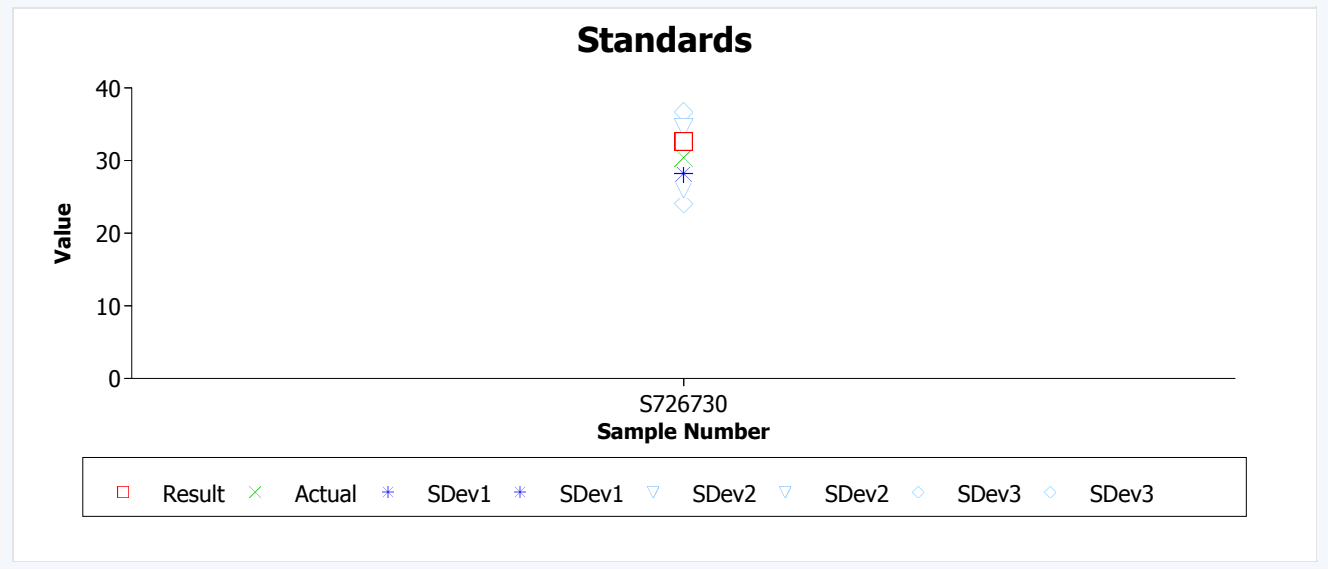
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CONTROL CHARTS

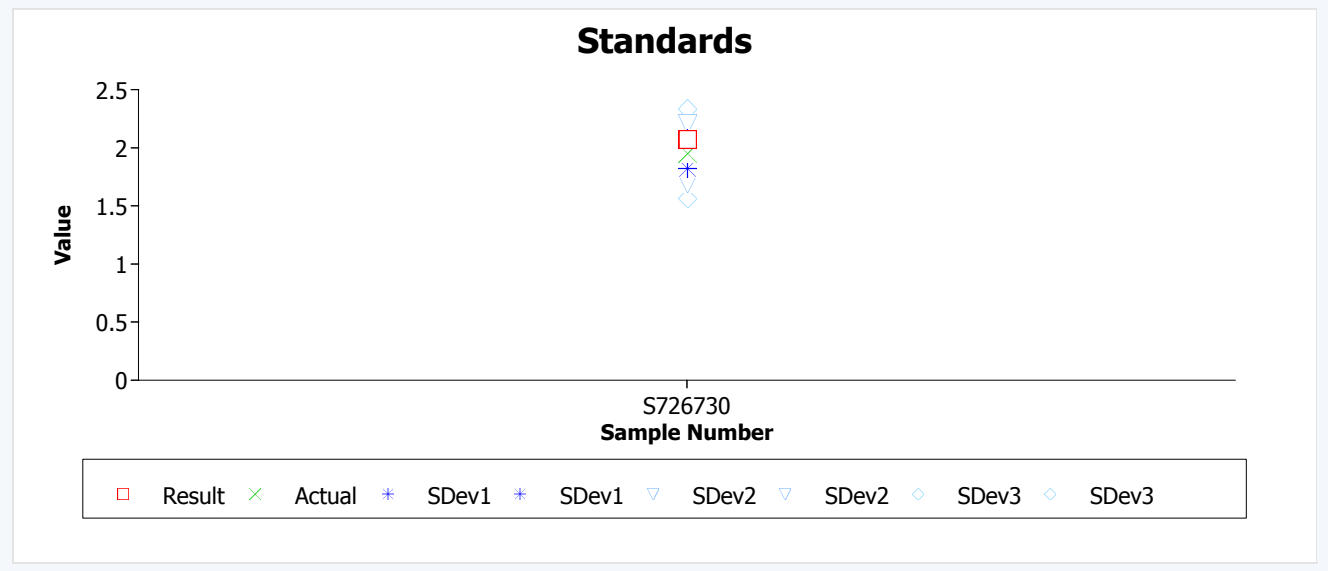
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Pb	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	32.7000	2.10000000	3			



Sb	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0700	0.12800000	3			



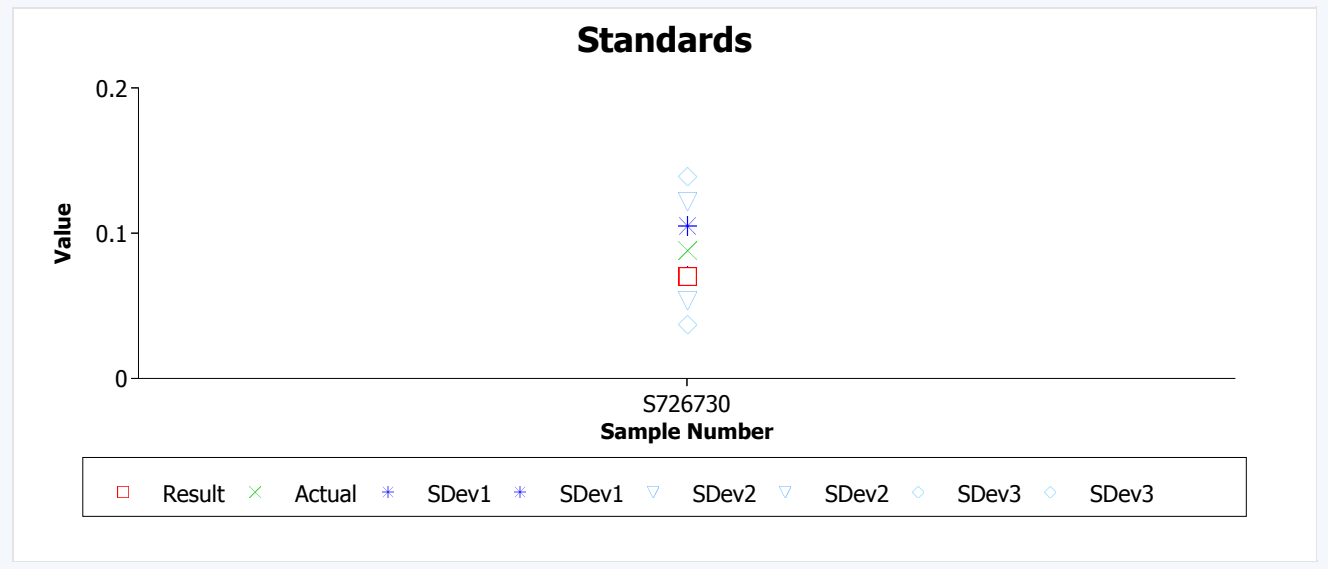
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CONTROL CHARTS

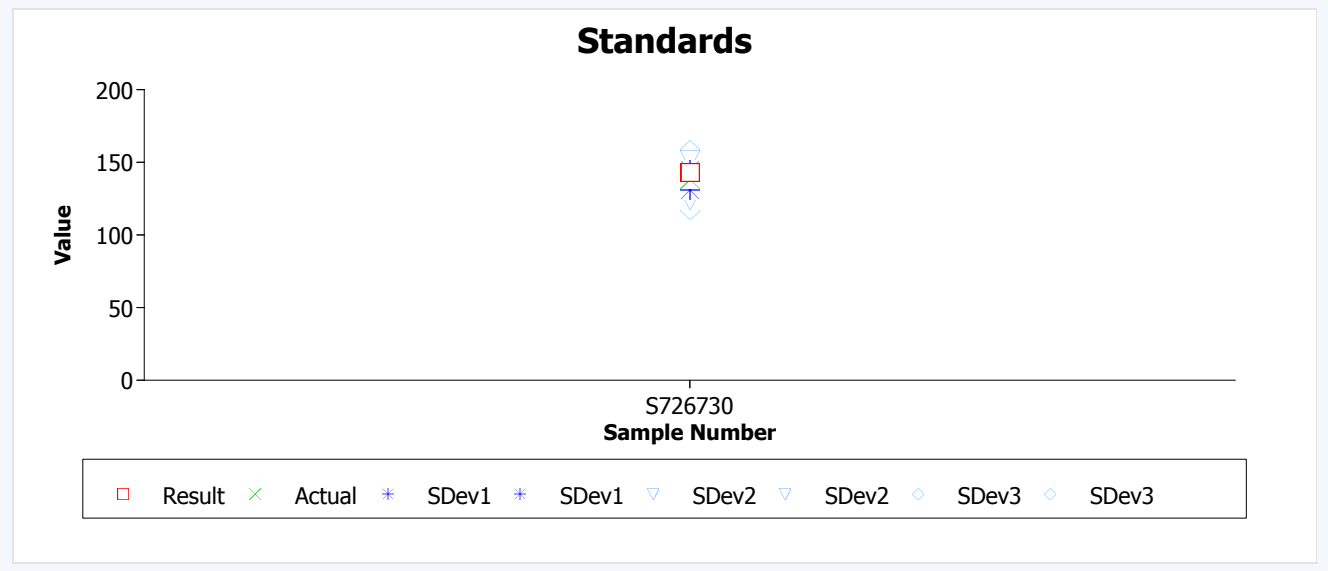
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Te	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0700	0.01700000	3			



Zn	ppm	MEMS61										
S726730	2016-Qiqavik Fiel	VO16127858	2016-09-01	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	143.0000	7.00000000	3			



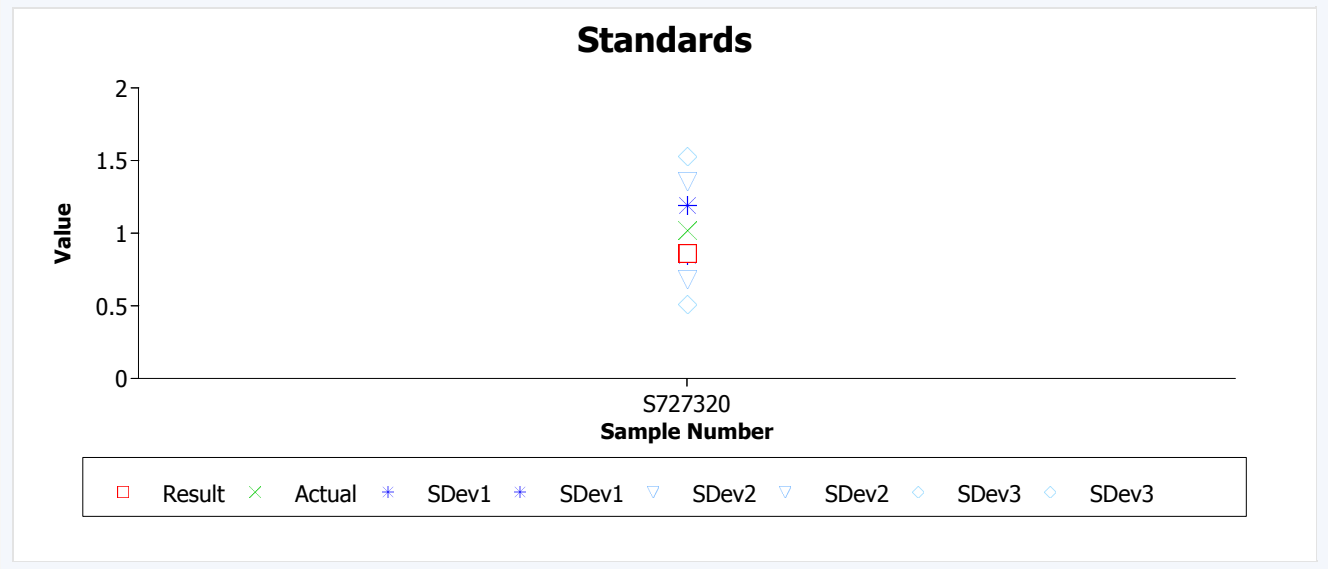
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CONTROL CHARTS

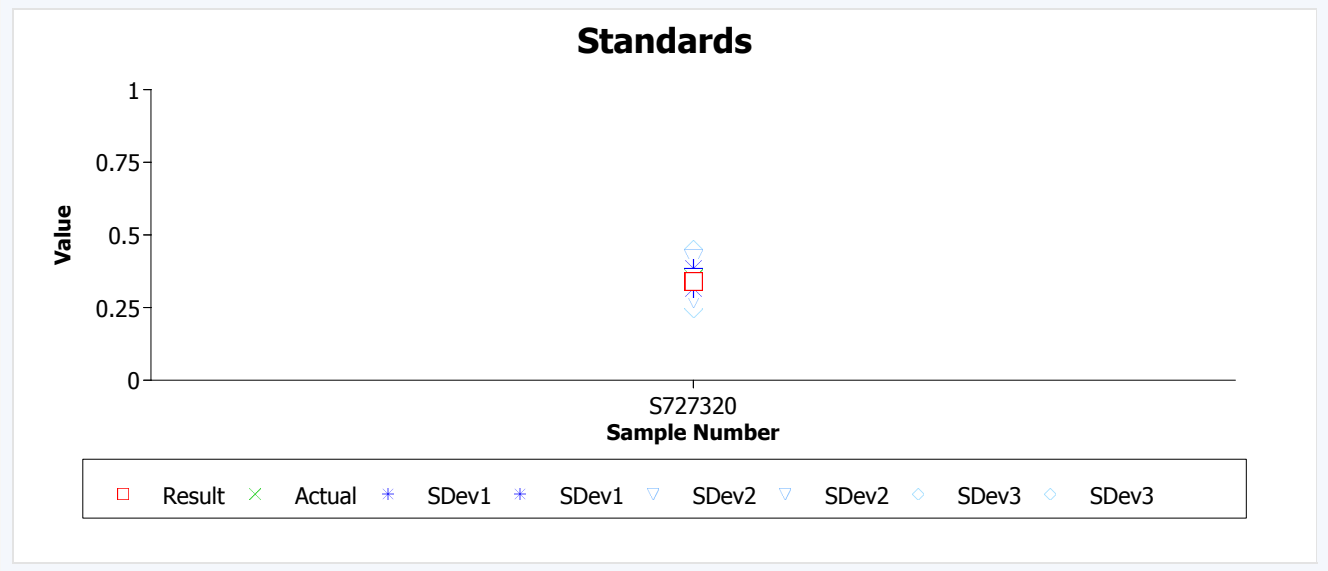
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S727320		2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.8600	0.17000000	3		



Bi	ppm	MEMS61										
S727320		2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3400	0.03400000	3		



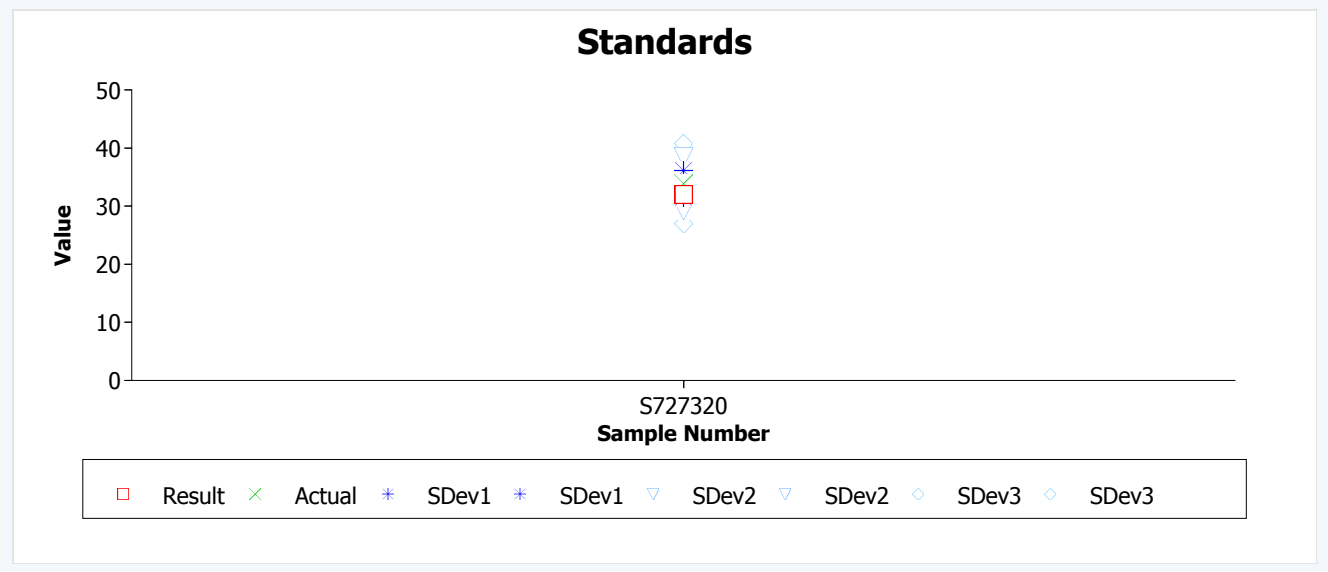
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CONTROL CHARTS

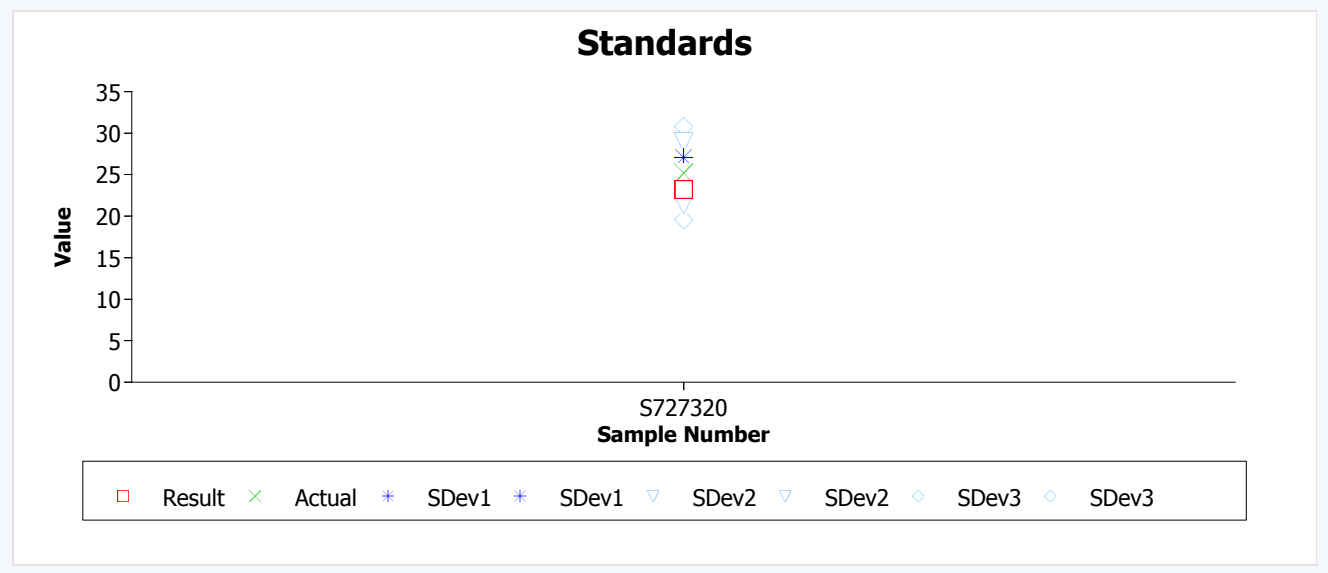
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S727320	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	32.0000	2.29000000	3			



Pb	ppm	MEMS61										
S727320	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	23.2000	1.87000000	3			



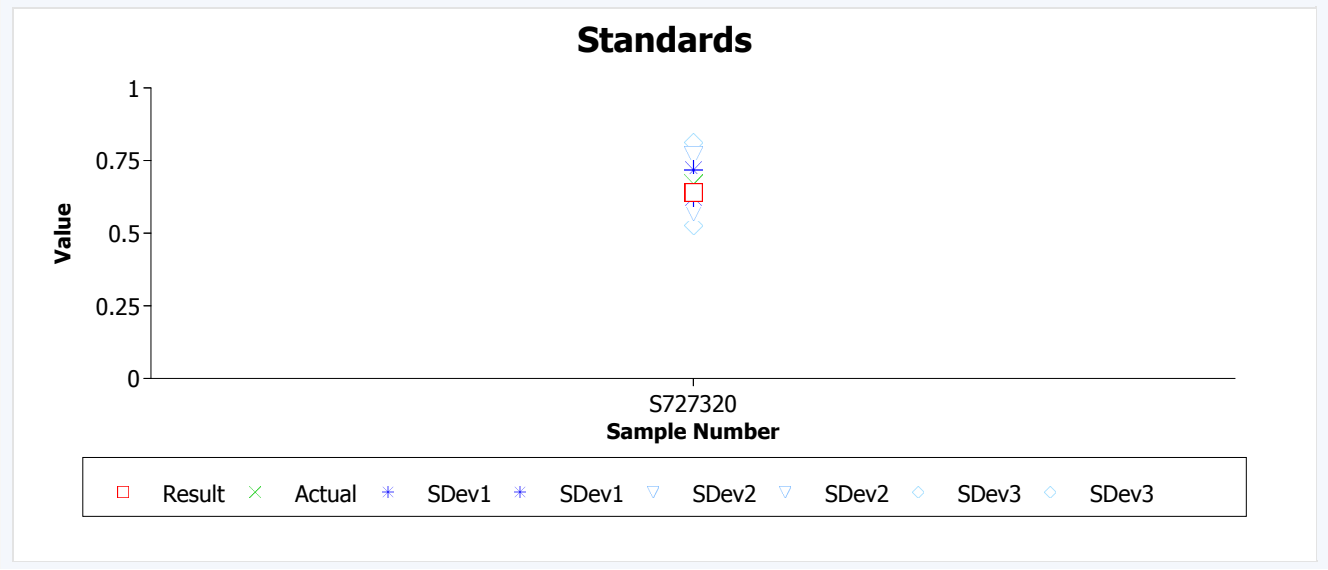
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CONTROL CHARTS

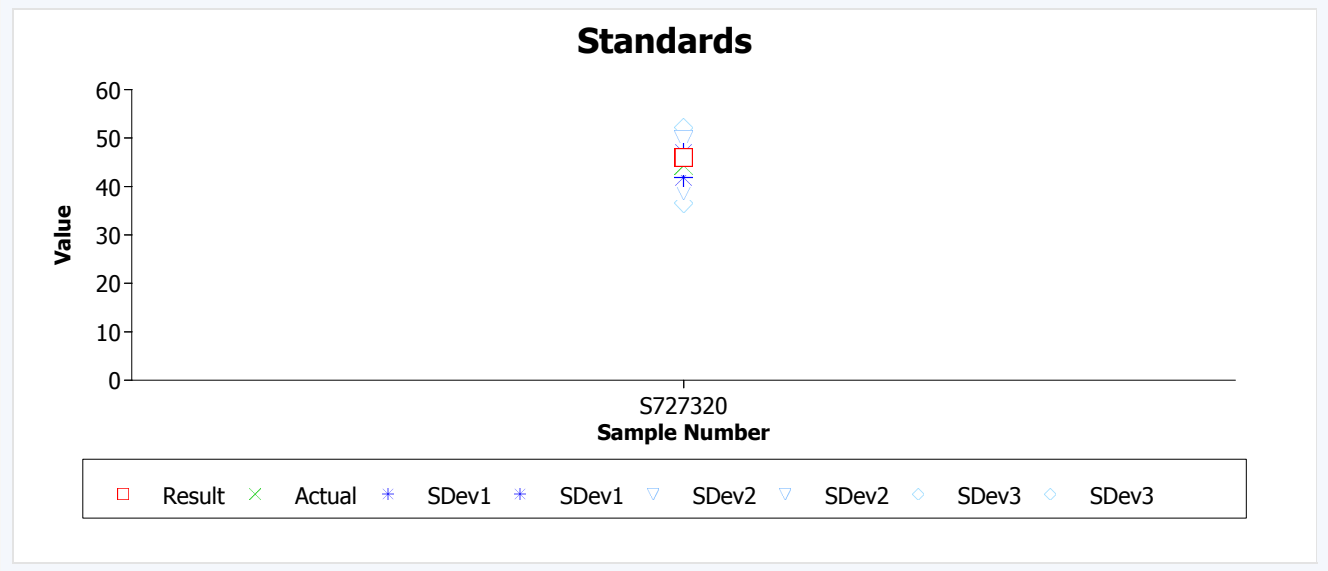
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S727320	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.6400	0.04800000	3			



Zn	ppm	MEMS61										
S727320	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	46.0000	2.60000000	3			



OREAS905

Ag	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5000	0.09500000	3			

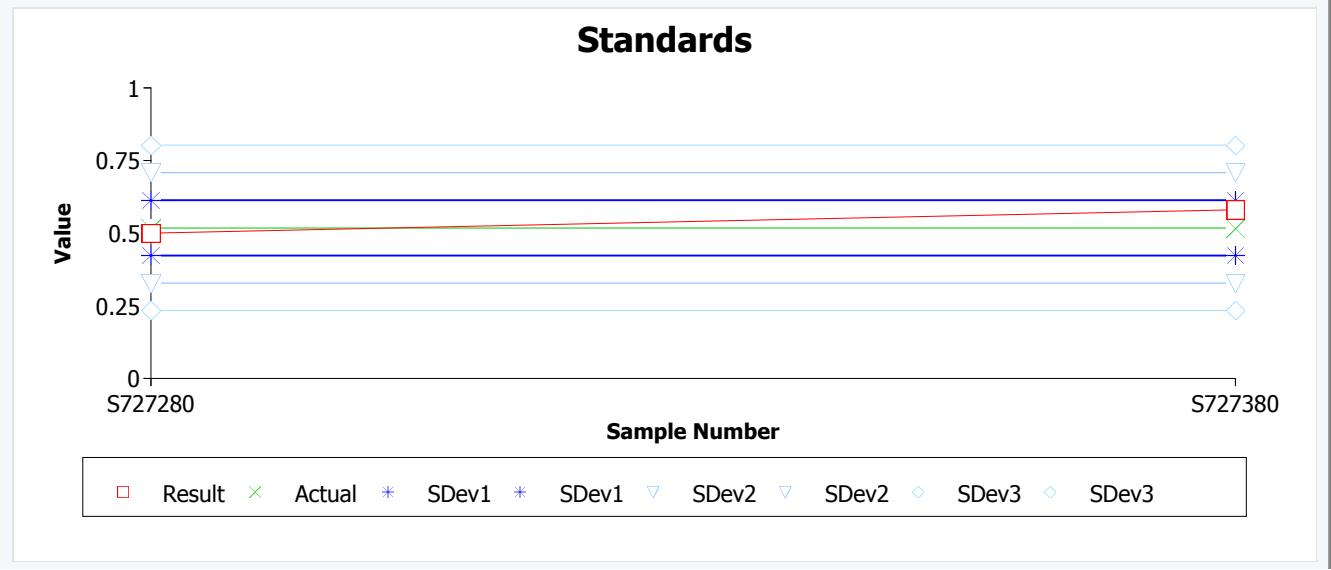
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CONTROL CHARTS

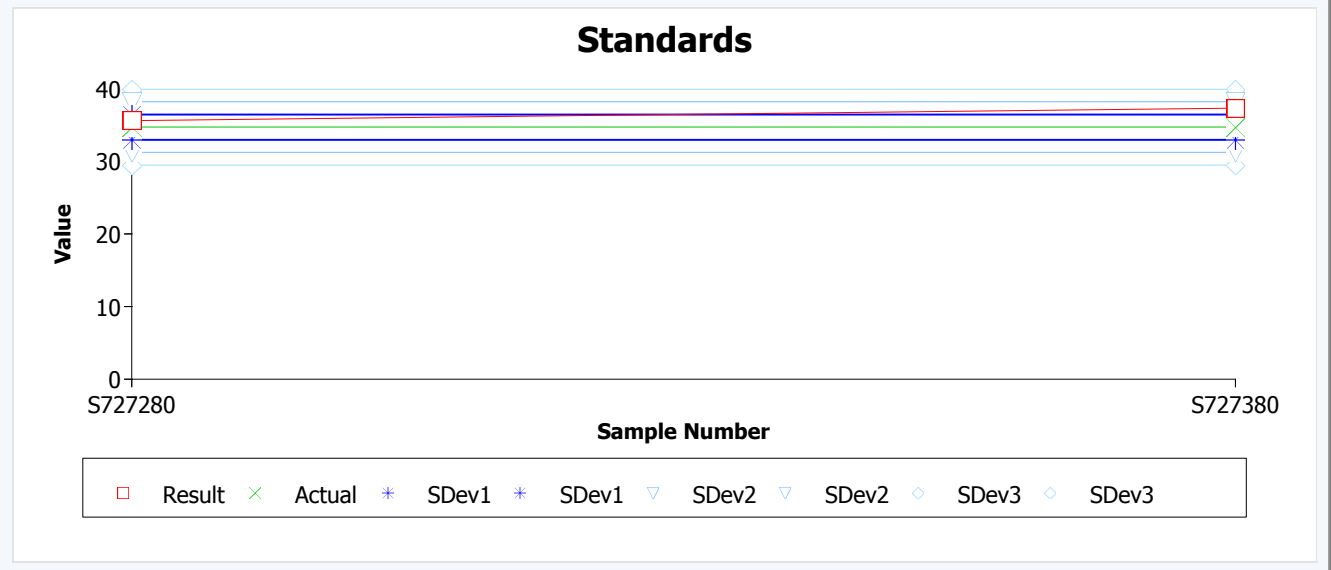
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Ag	ppm	MEMS61										
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5800	0.09500000	3			



As	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	35.6000	1.74000000	3			
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	37.3000	1.74000000	3			



Be	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.1300	0.32000000	3			

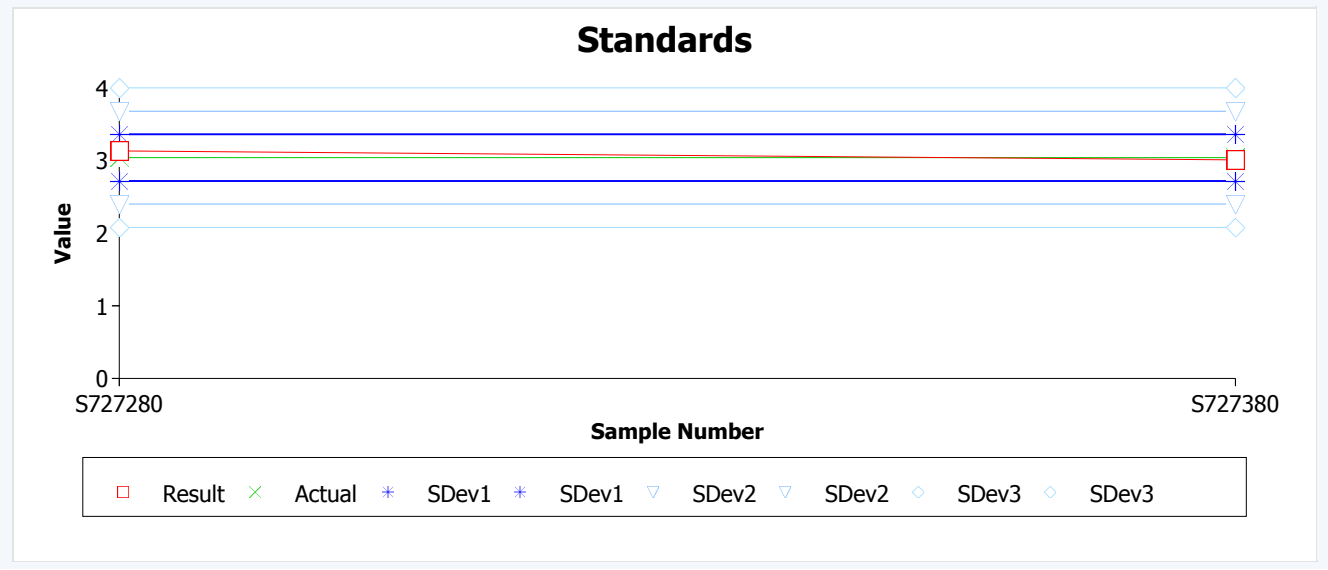
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CONTROL CHARTS

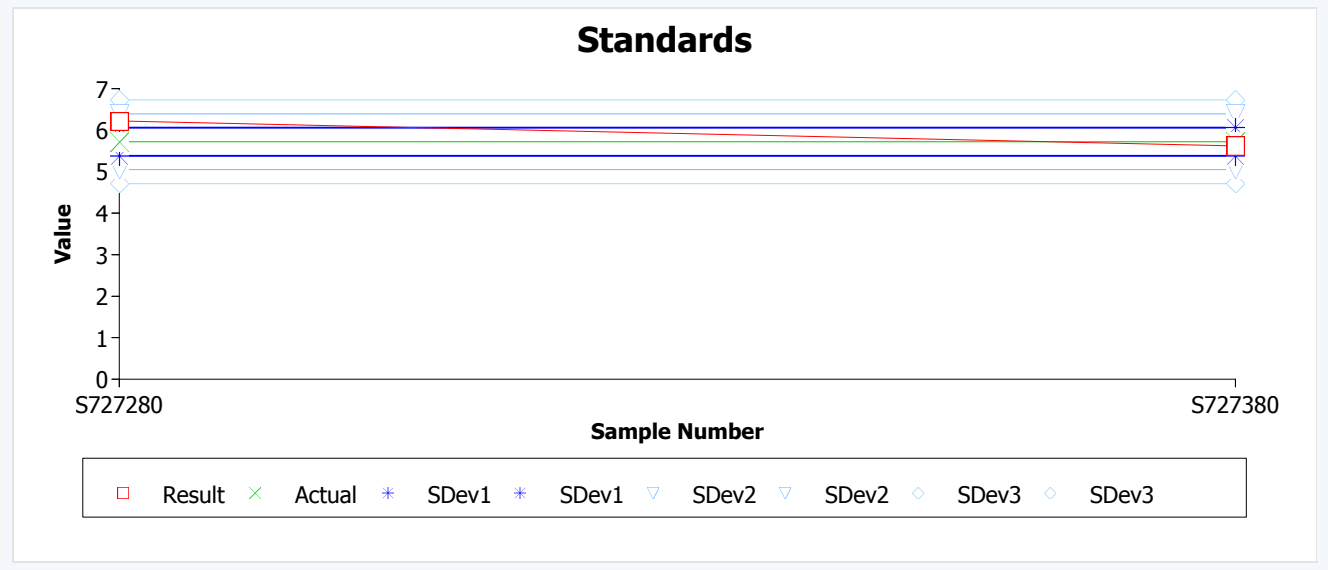
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Be	ppm	MEMS61										
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.0100	0.32000000	3			



Bi	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	6.2200	0.33700000	3			
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	5.6200	0.33700000	3			



Cu	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1500.0000	61.00000000	3			

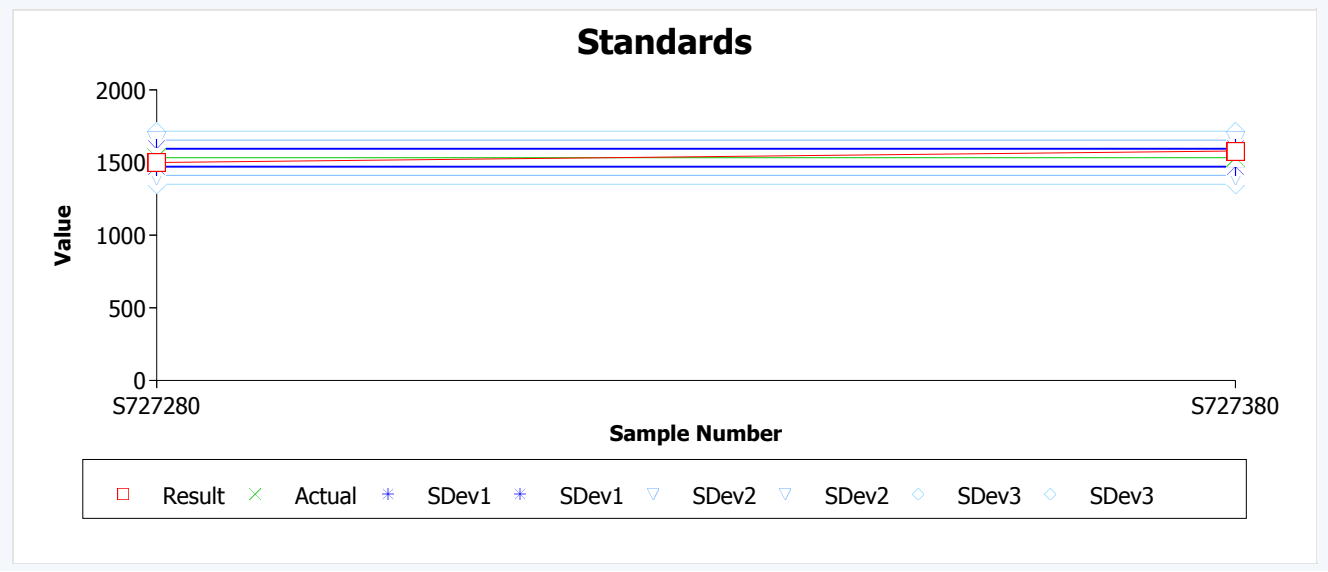
Oct 25, 2016

CONTROL CHARTS

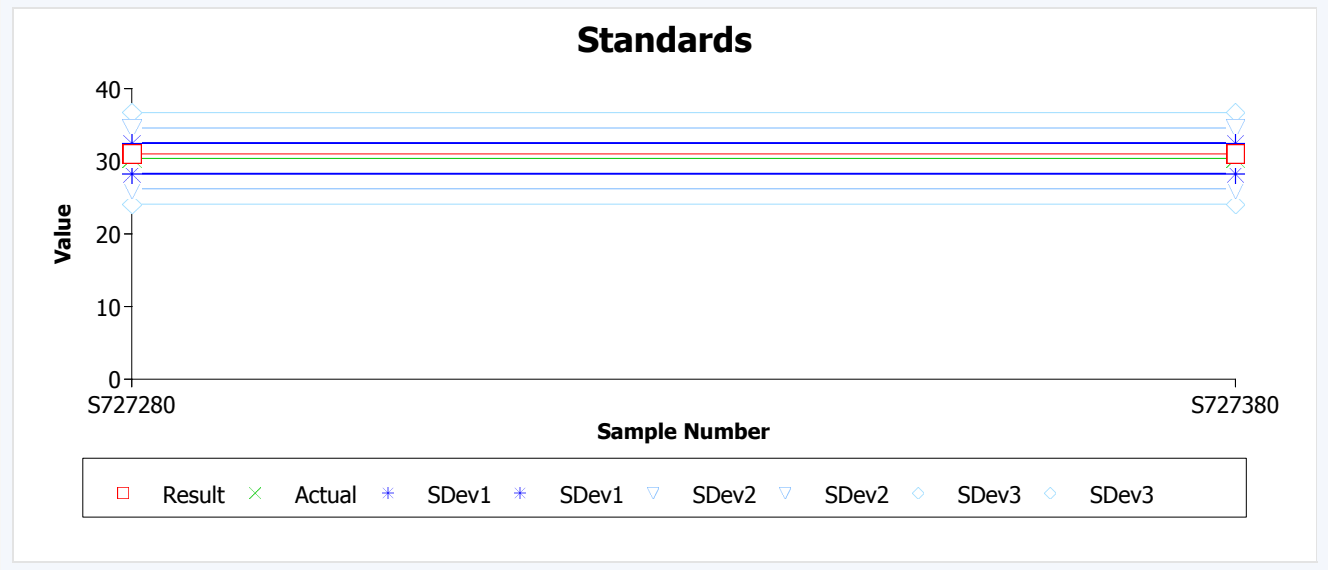
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Cu	ppm	MEMS61										
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1580.0000	61.00000000	3			



Pb	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.0000	2.10000000	3			
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.0000	2.10000000	3			



Sb	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.2600	0.12800000	3			

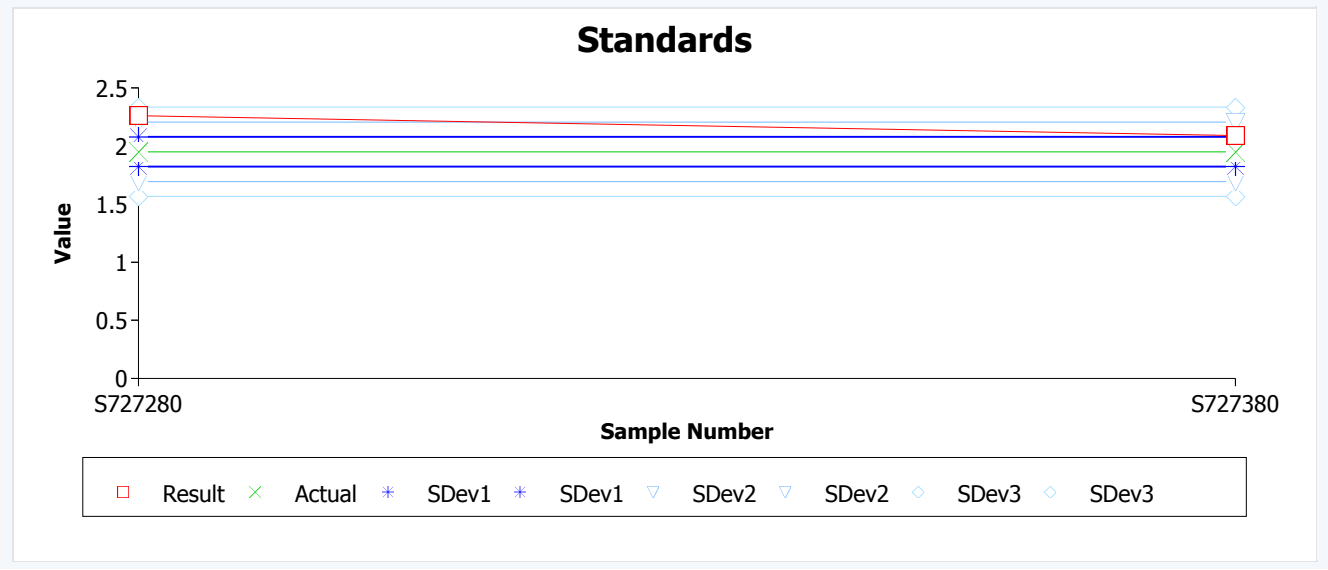
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CONTROL CHARTS

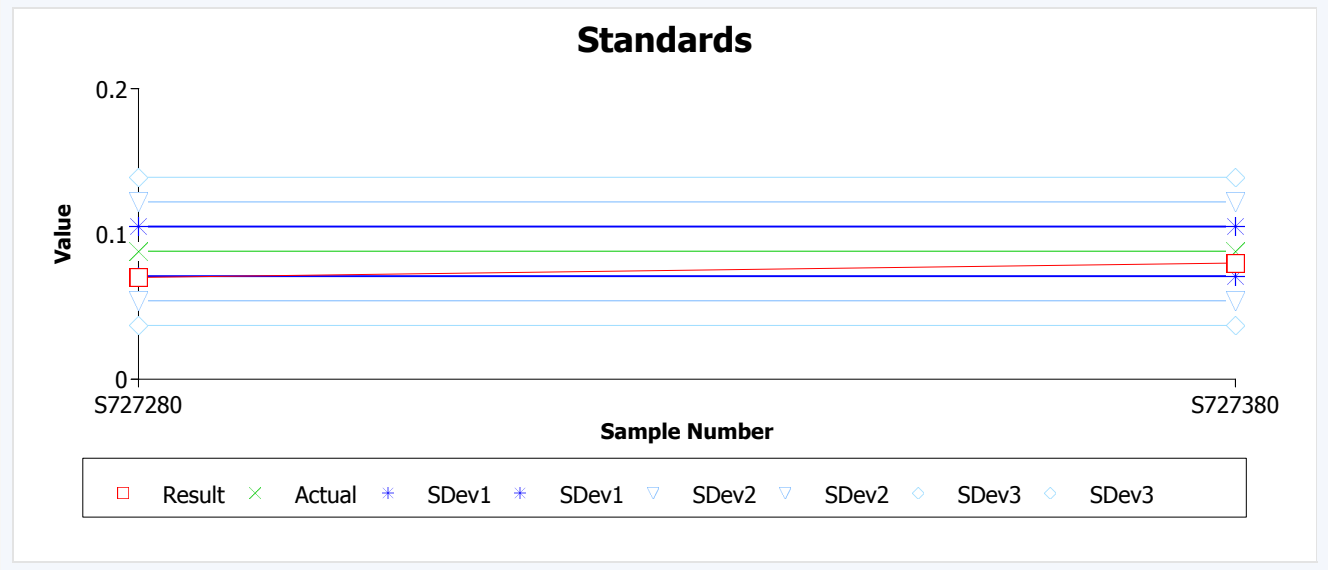
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Sb	ppm	MEMS61										
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0900	0.12800000	3			



Te	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0700	0.01700000	3			
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0800	0.01700000	3			



Zn	ppm	MEMS61										
S727280	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	147.0000	7.00000000	3			

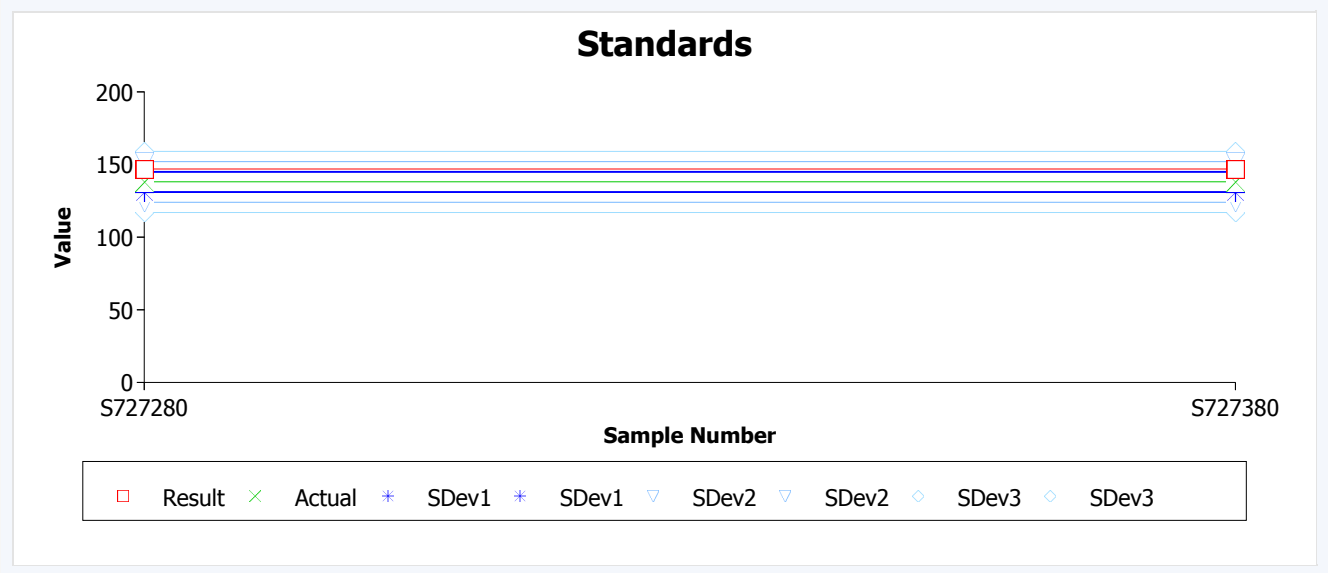
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Zn	ppm	MEMS61										
S727380	2016-Qiqavik Fiel	VO16127860	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	147.0000	7.00000000	3			



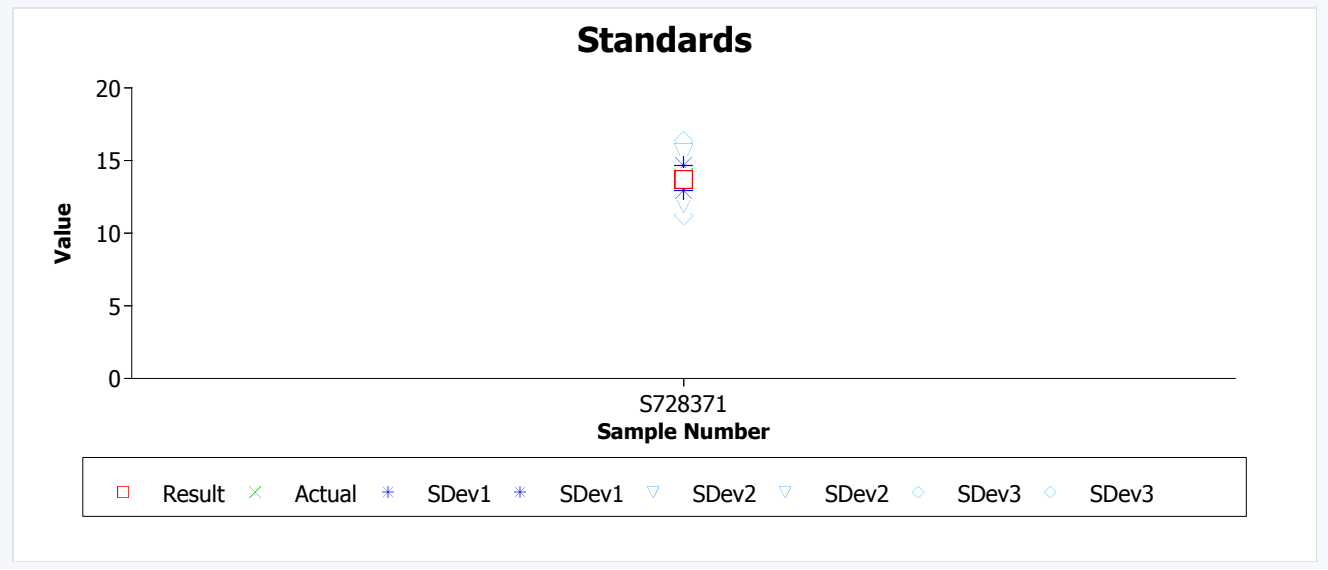
Oct 25, 2016

CONTROL CHARTS

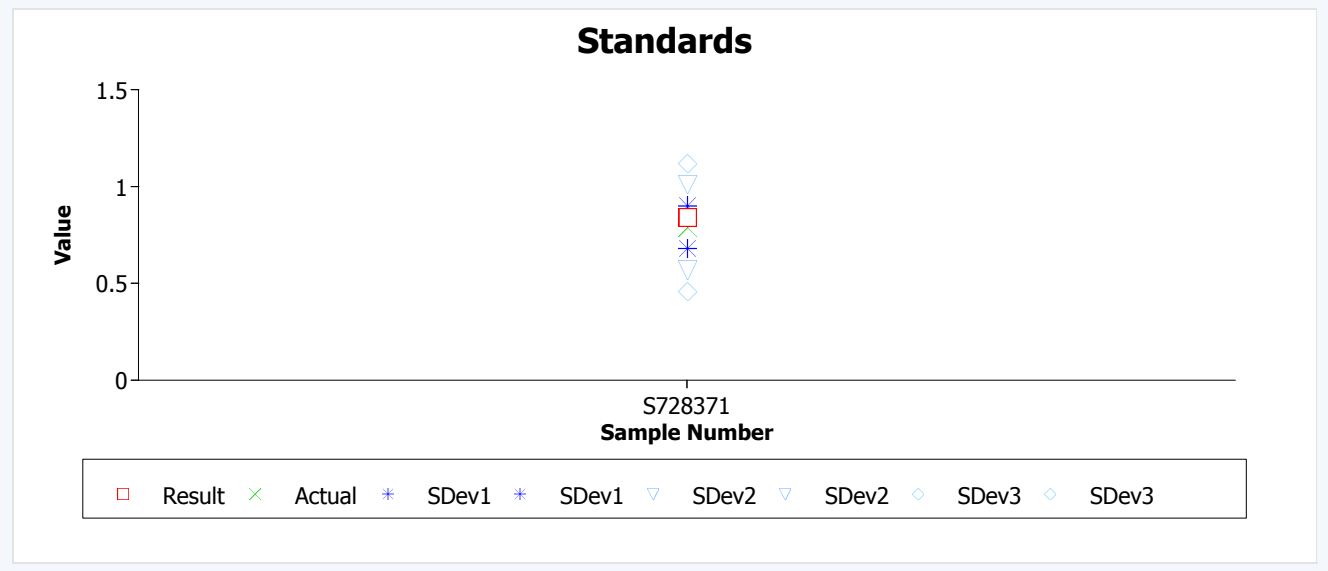
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S728371		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.7000	0.86000000	3		



Be	ppm	MEMS61										
S728371		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.8400	0.11000000	3		



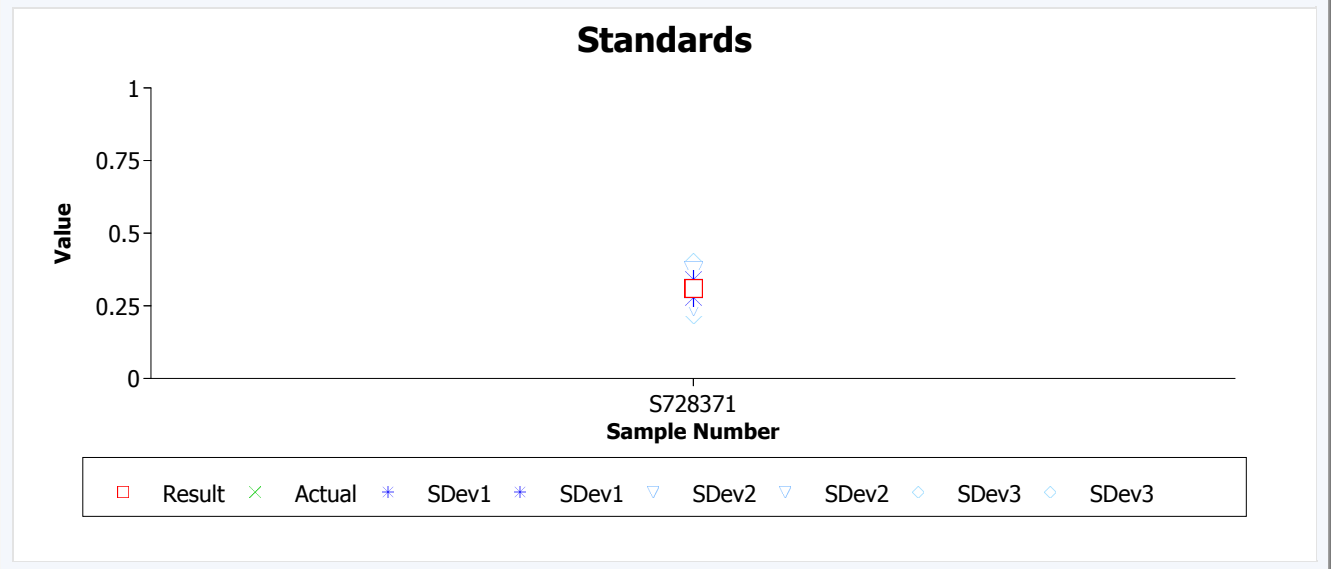
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CONTROL CHARTS

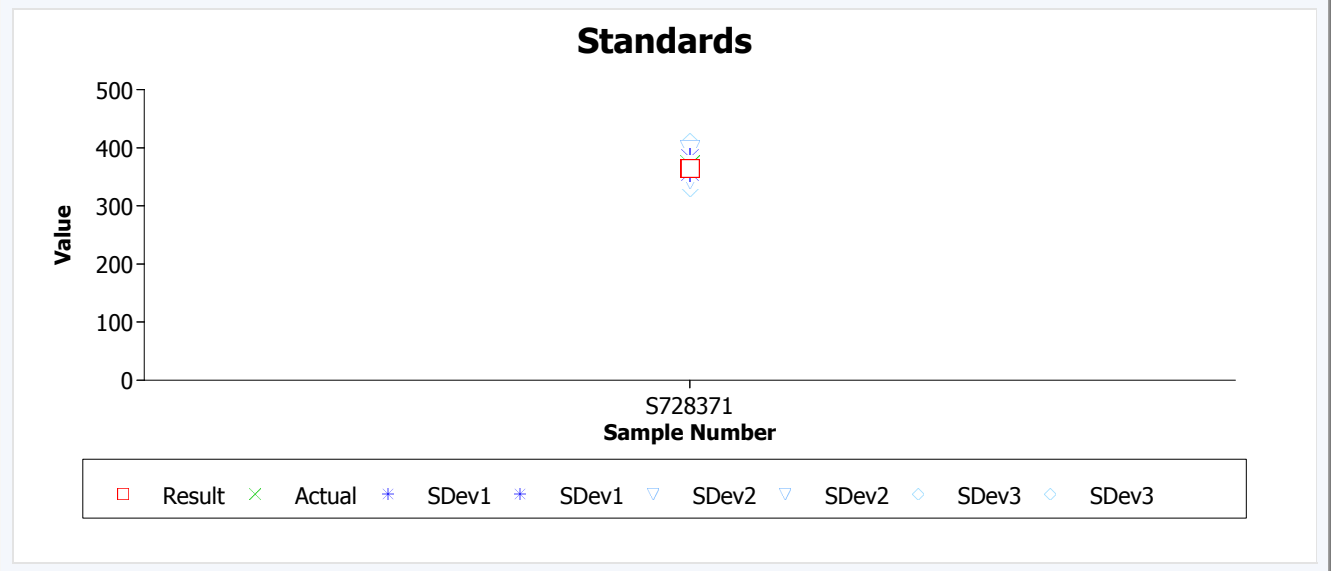
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S728371		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3		



Cu	ppm	MEMS61										
S728371		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	364.0000	12.80000000	3		



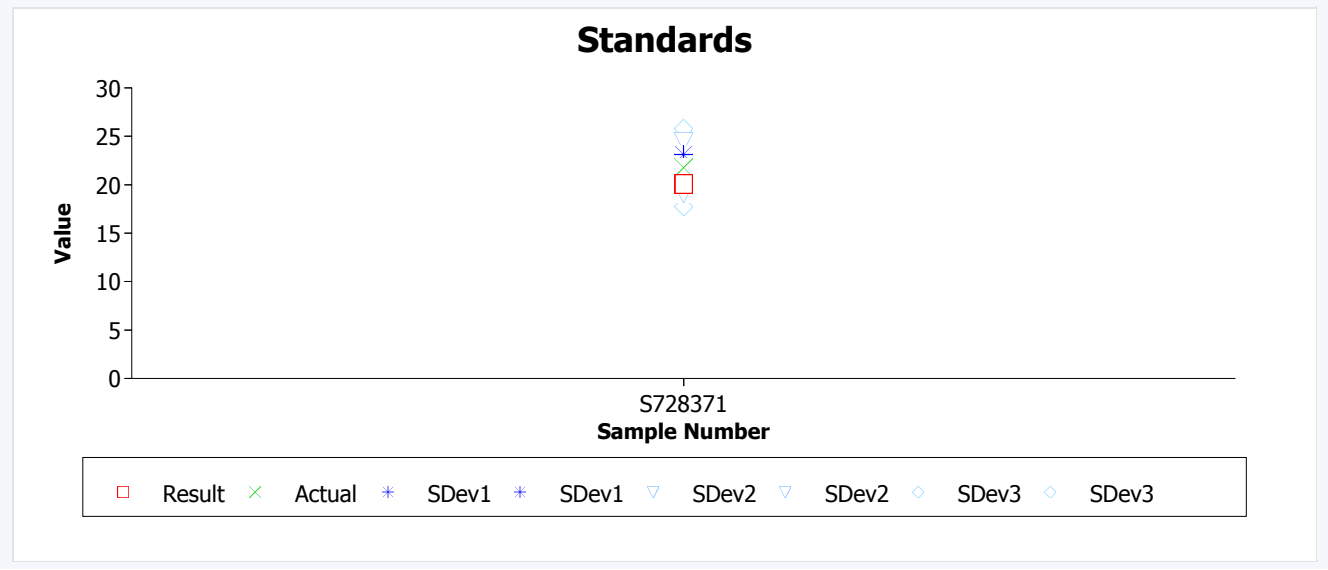
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CONTROL CHARTS

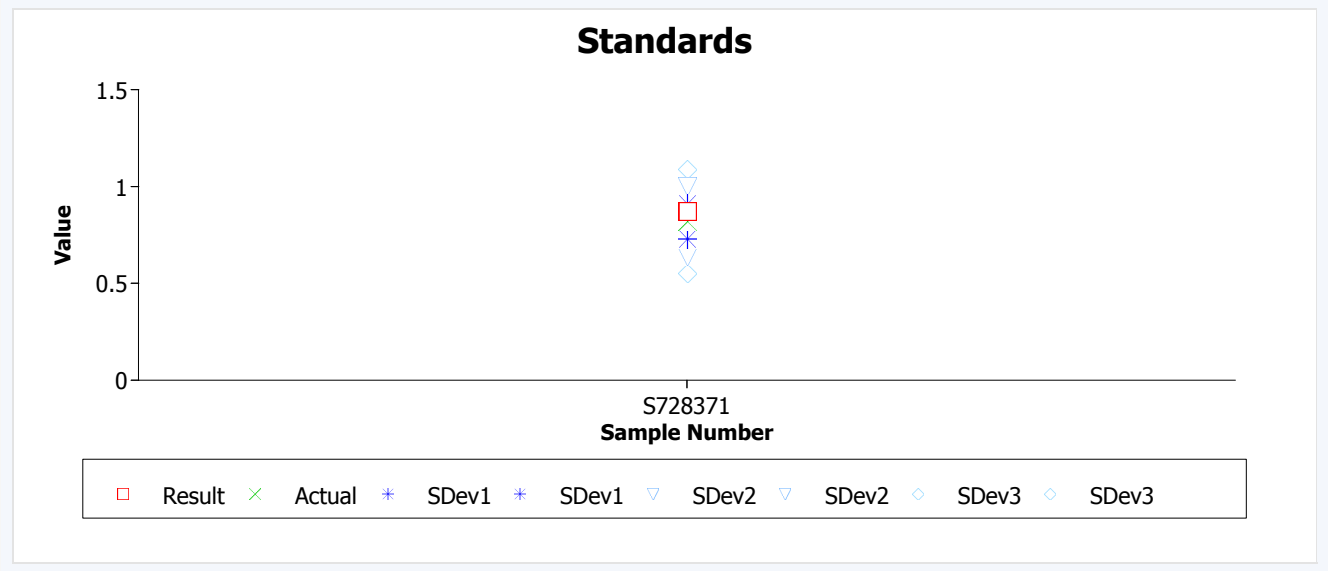
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S728371	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.1000	1.35000000	3			



Sb	ppm	MEMS61										
S728371	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8700	0.09000000	3			



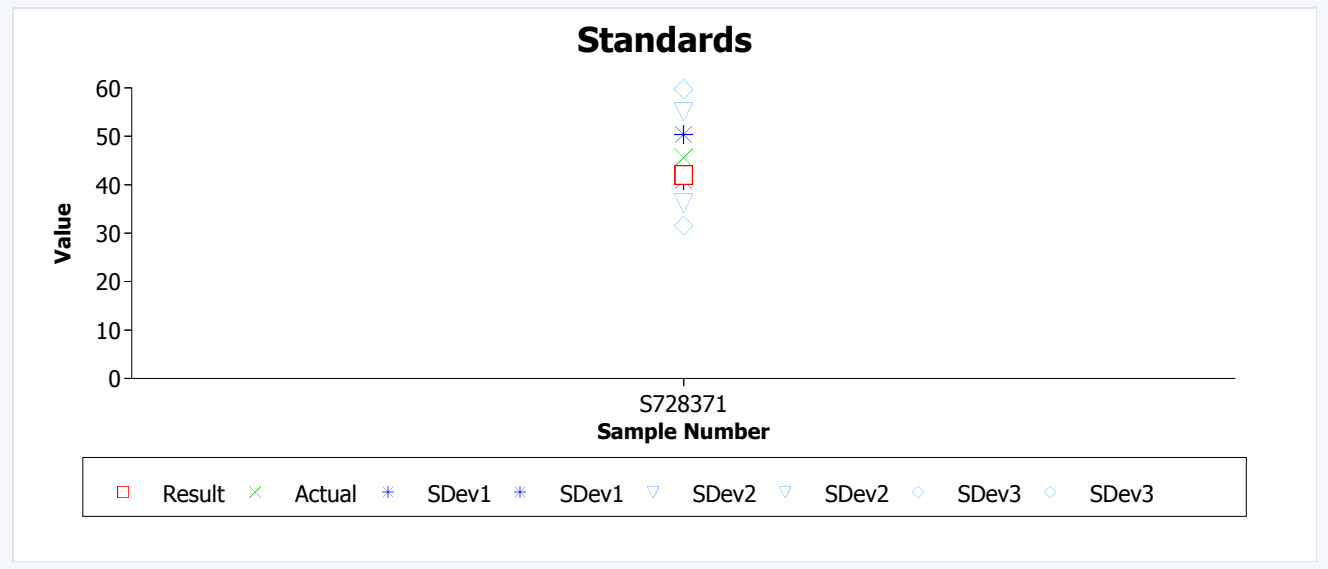
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CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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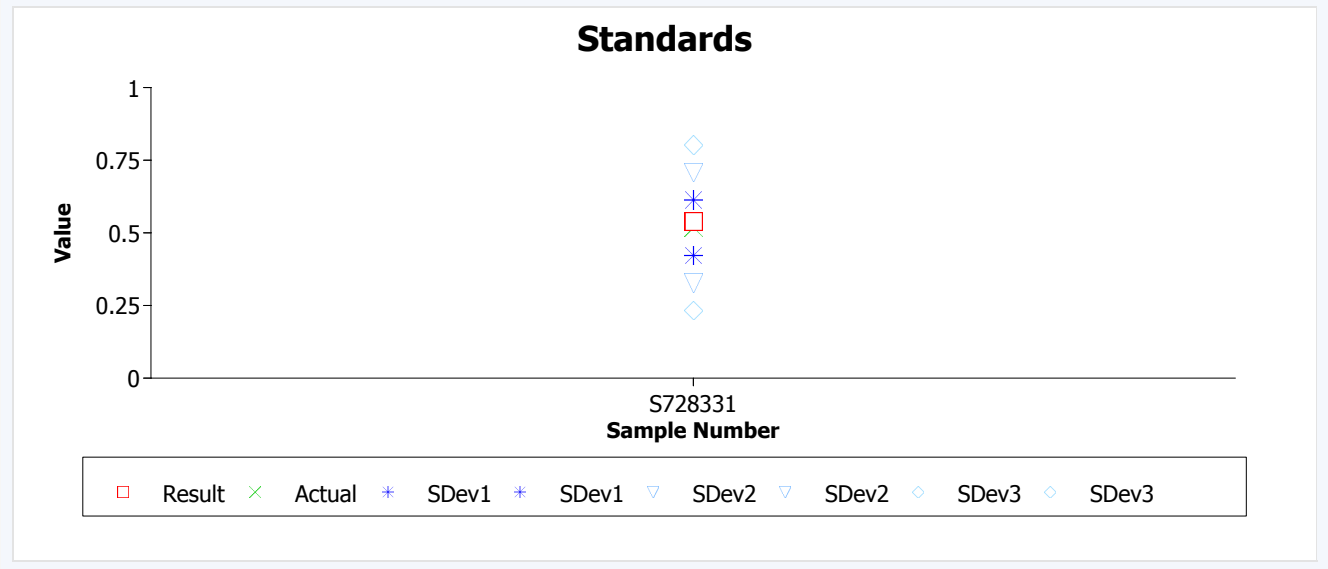
OREAS45D

Zn	ppm	MEMS61										
S728371	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	42.0000	4.70000000	3			



OREAS905

Ag	ppm	MEMS61										
S728331	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5400	0.09500000	3			



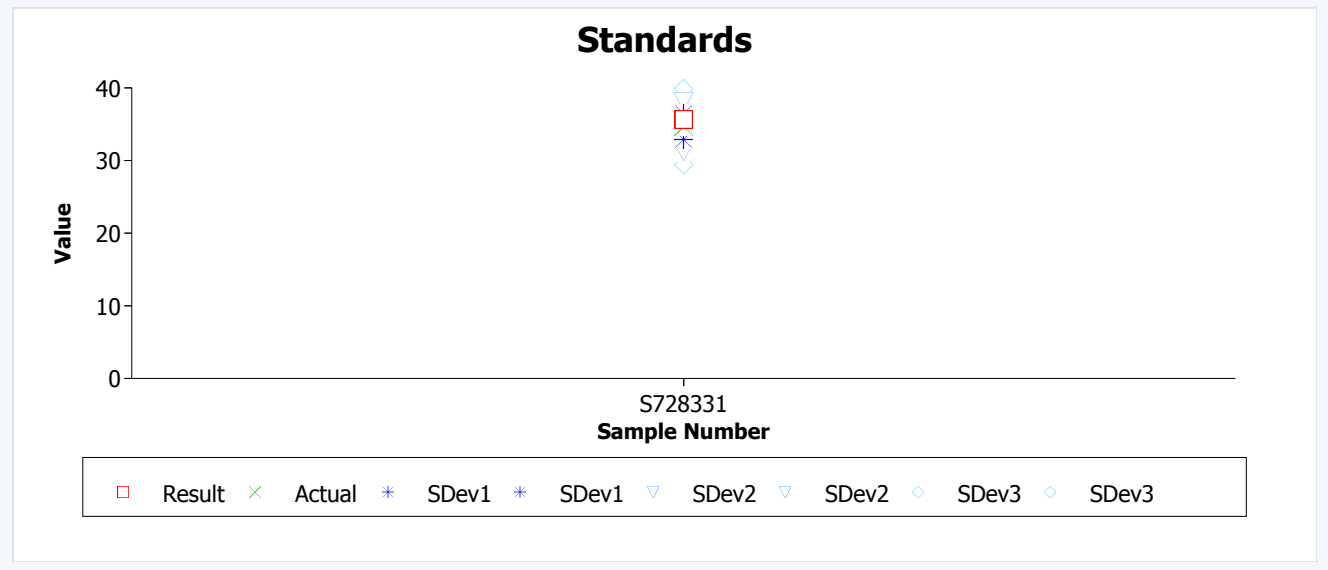
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CONTROL CHARTS

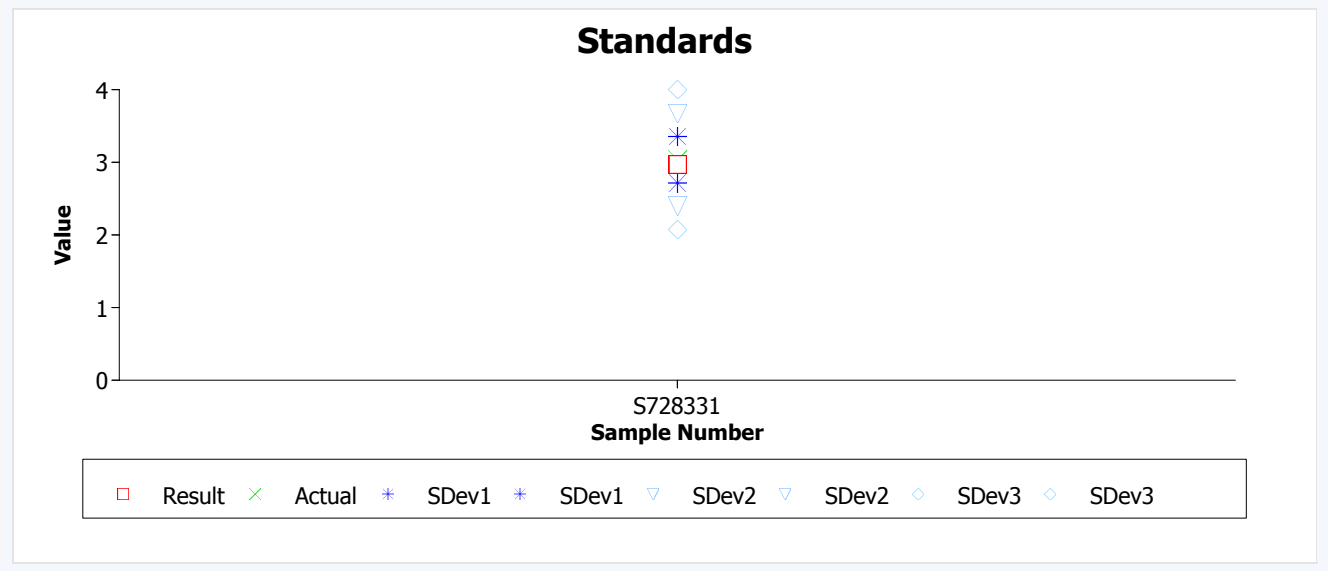
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

As	ppm	MEMS61										
S728331	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	35.7000	1.74000000	3			



Be	ppm	MEMS61										
S728331	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	2.9700	0.32000000	3			



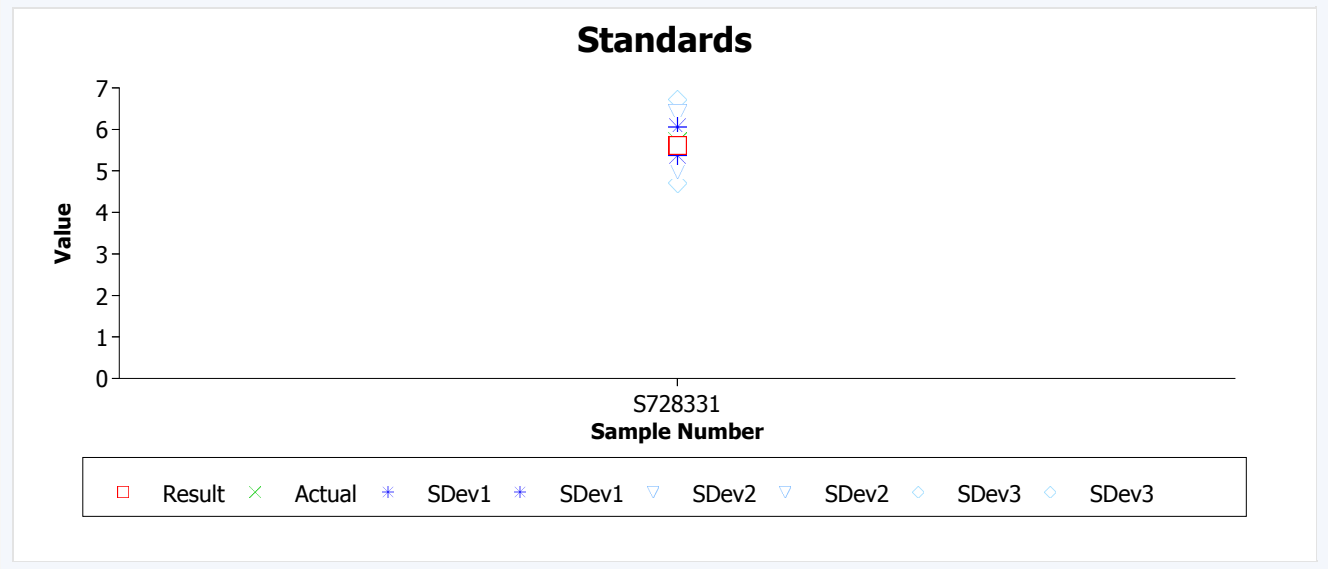
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CONTROL CHARTS

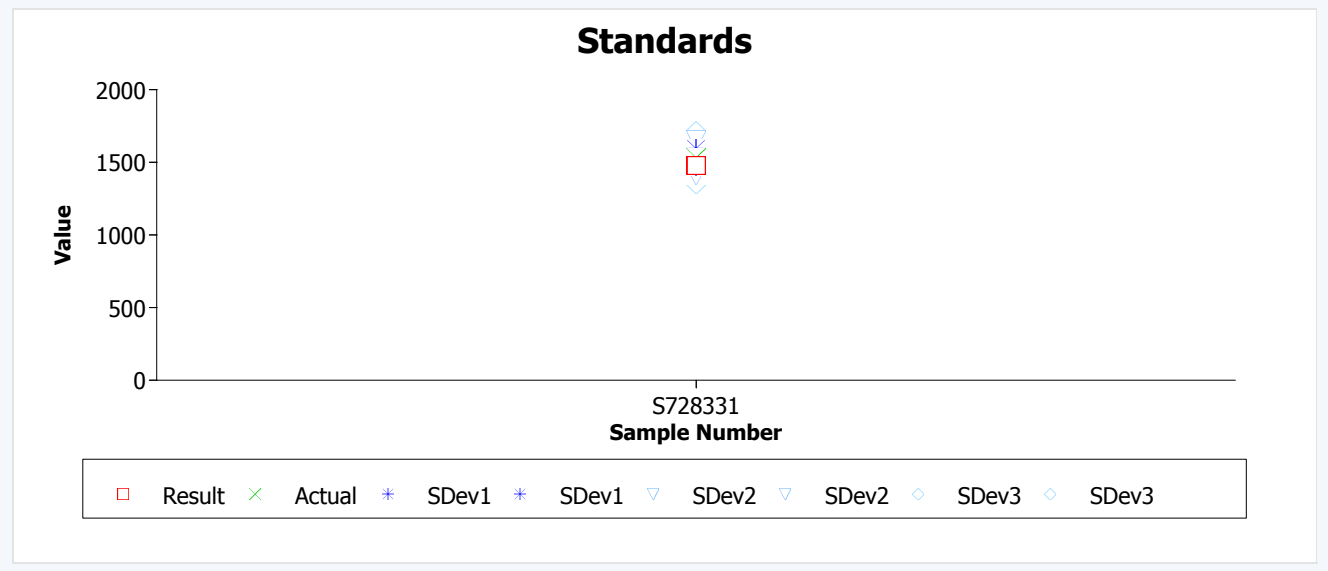
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Bi	ppm	MEMS61										
S728331		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	5.6200	0.33700000	3		



Cu	ppm	MEMS61										
S728331		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1480.0000	61.00000000	3		



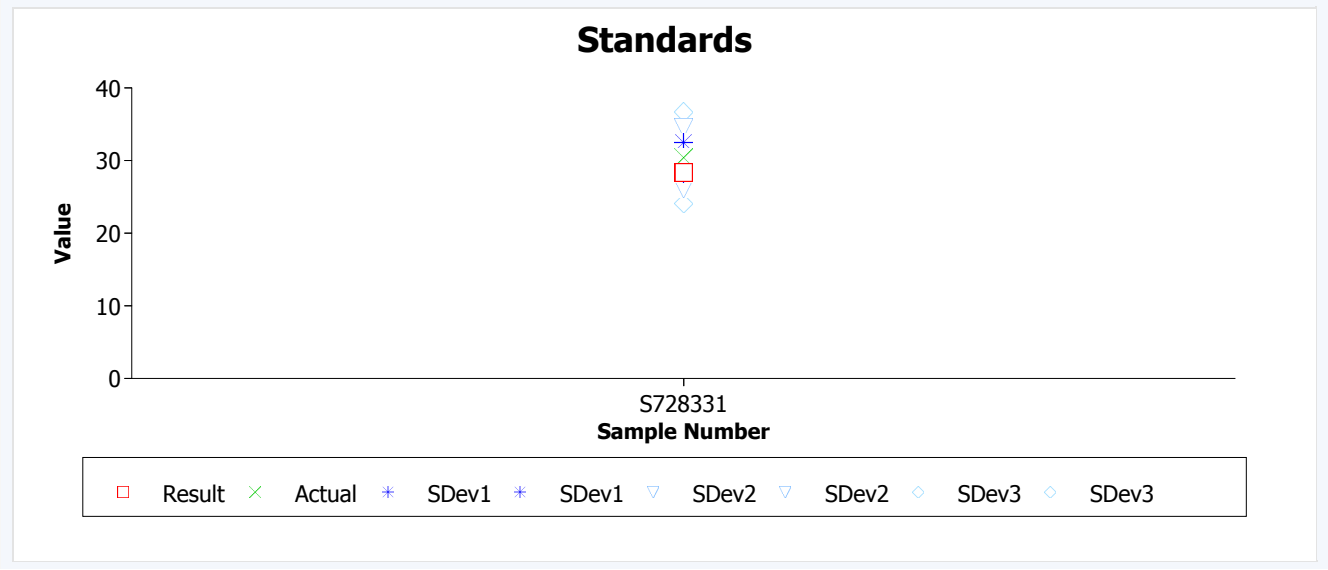
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CONTROL CHARTS

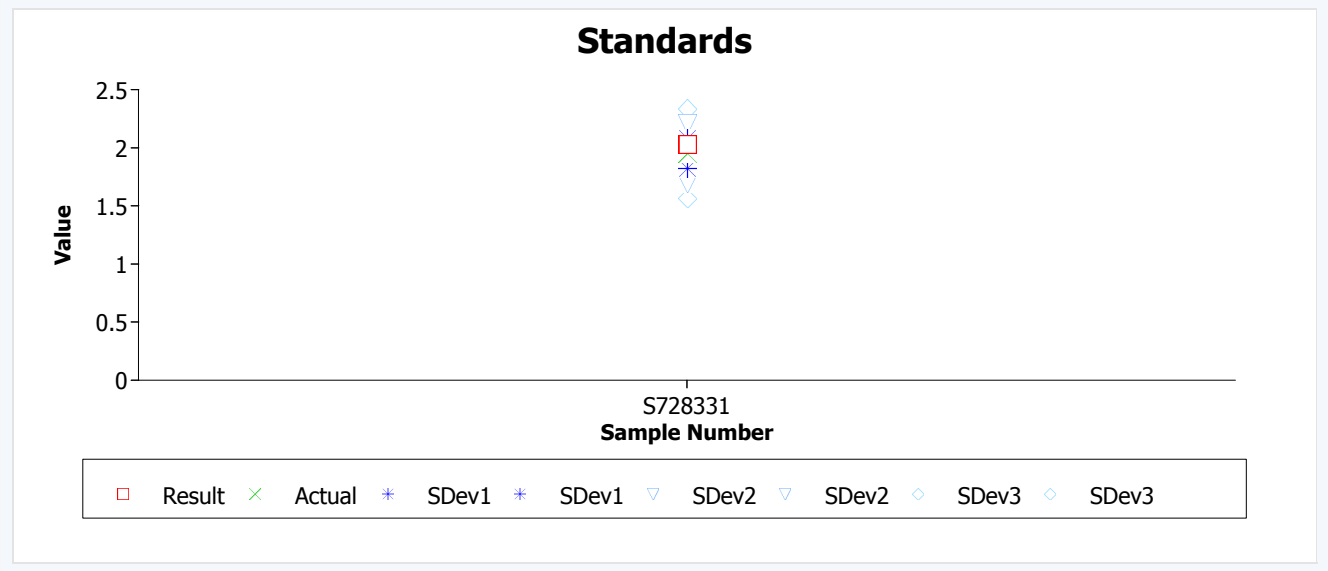
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Pb	ppm	MEMS61										
S728331	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	28.4000	2.10000000	3			



Sb	ppm	MEMS61										
S728331	2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0300	0.12800000	3			



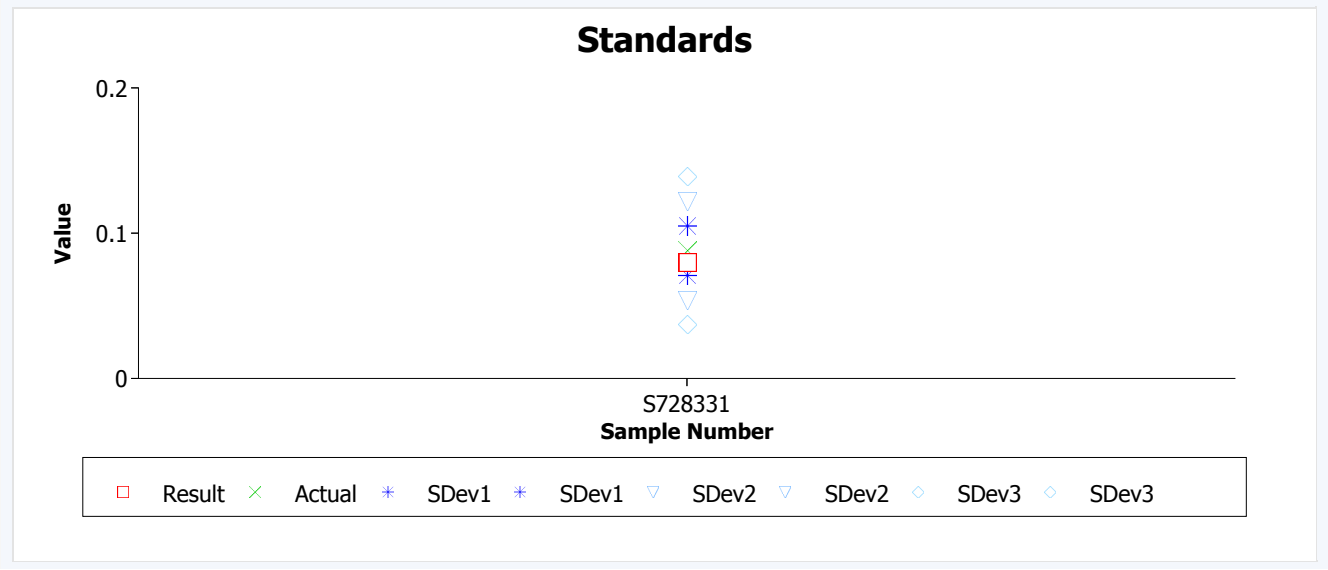
Oct 25, 2016

CONTROL CHARTS

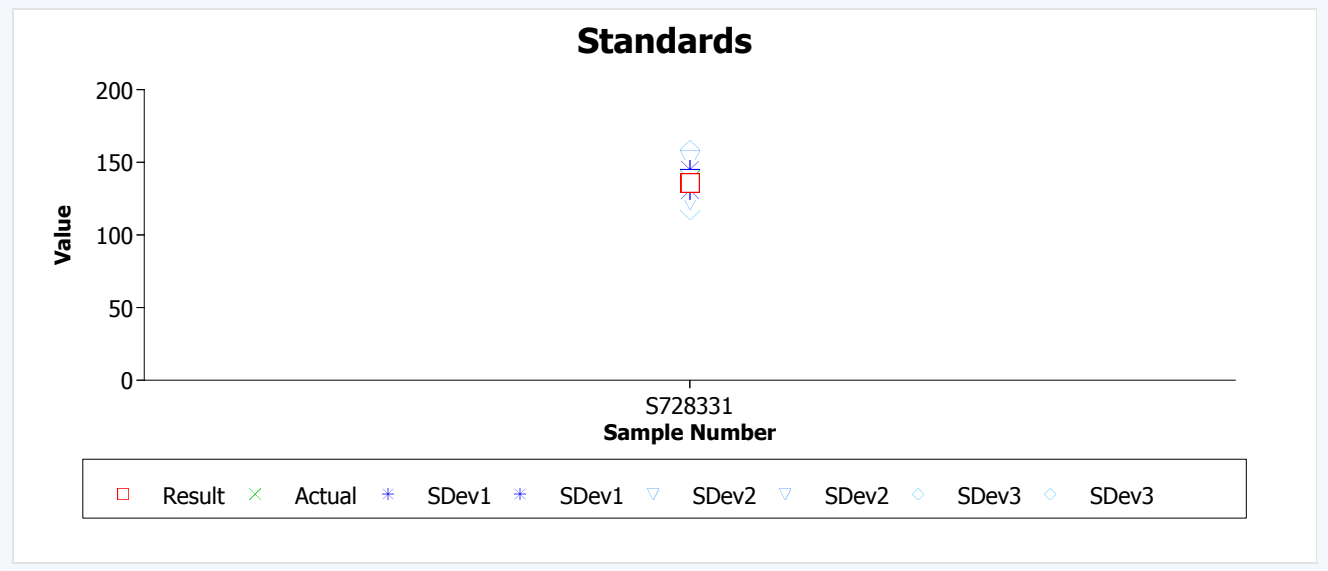
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Te	ppm	MEMS61										
S728331		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0800	0.01700000	3		



Zn	ppm	MEMS61										
S728331		2016-Qiqavik Fiel	VO16127861	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	136.0000	7.00000000	3		



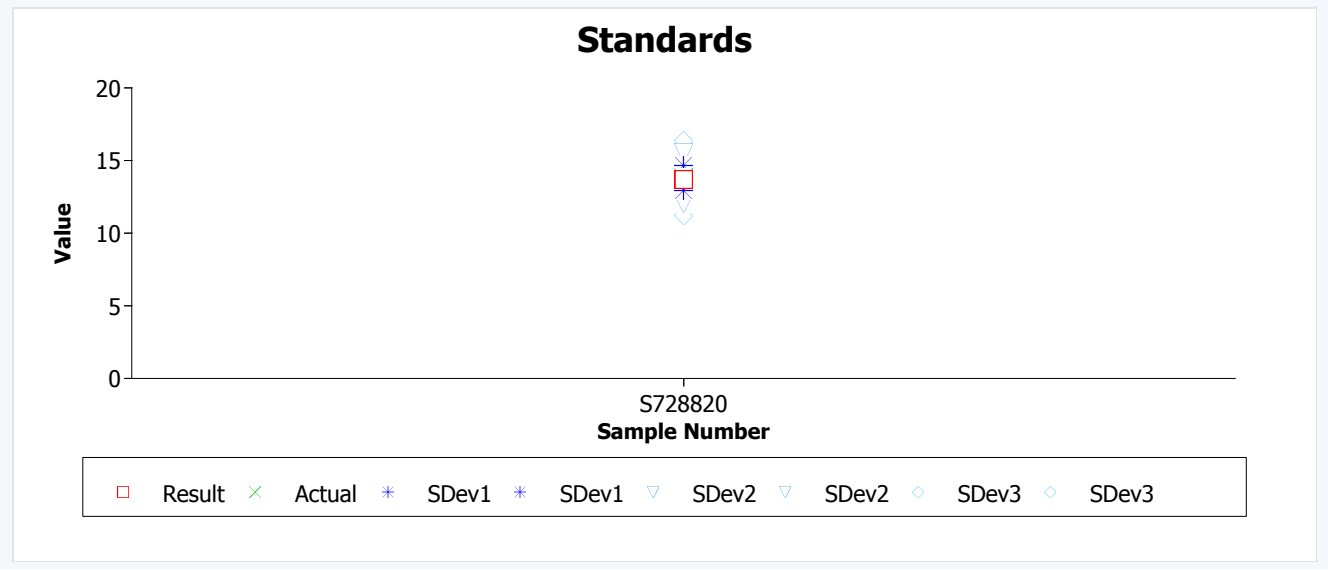
Oct 25, 2016

CONTROL CHARTS

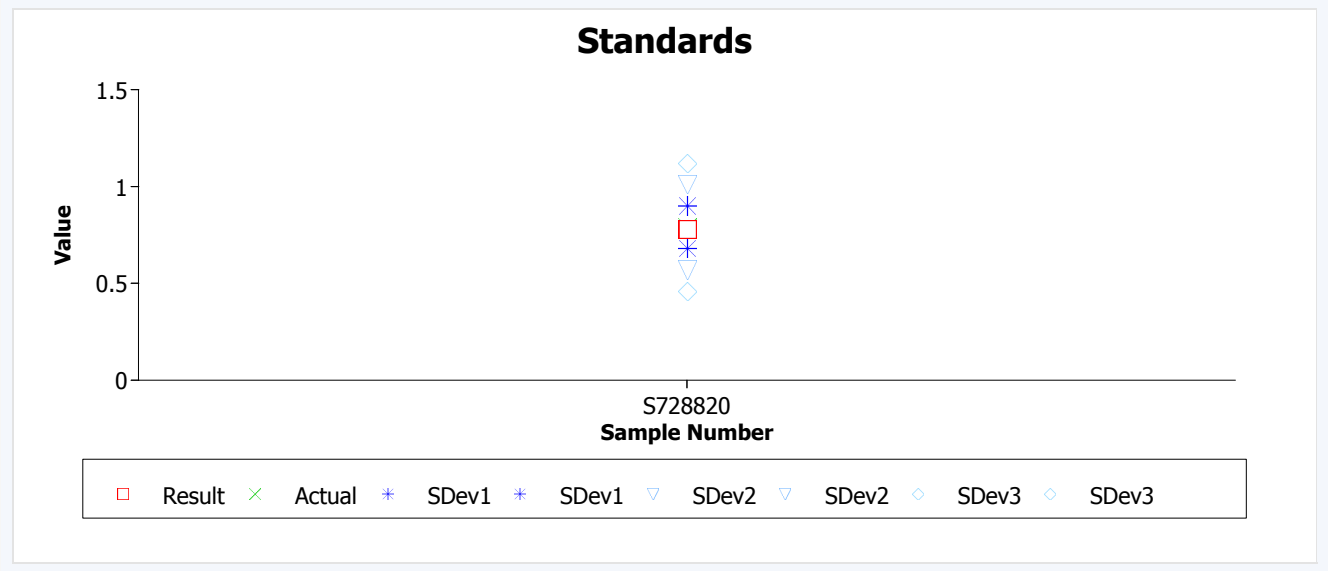
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S728820		2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.7000	0.86000000	3		



Be	ppm	MEMS61										
S728820		2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7800	0.11000000	3		



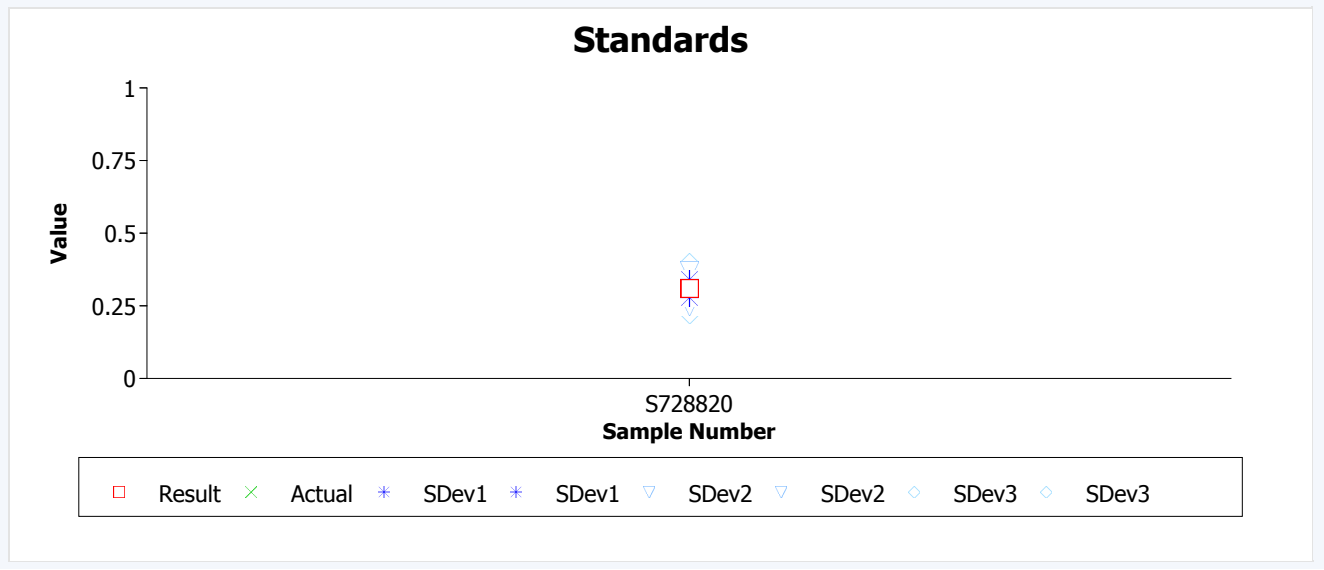
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CONTROL CHARTS

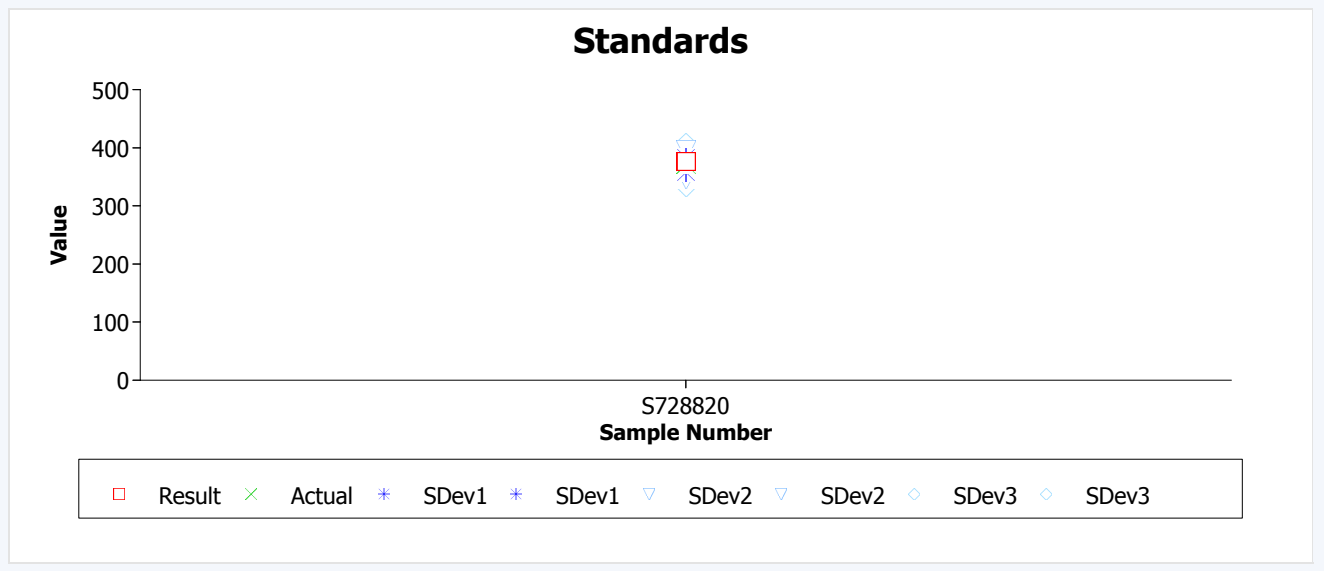
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S728820		2016-Qiqavik Fiel VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			



Cu	ppm	MEMS61										
S728820		2016-Qiqavik Fiel VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	376.0000	12.80000000	3			



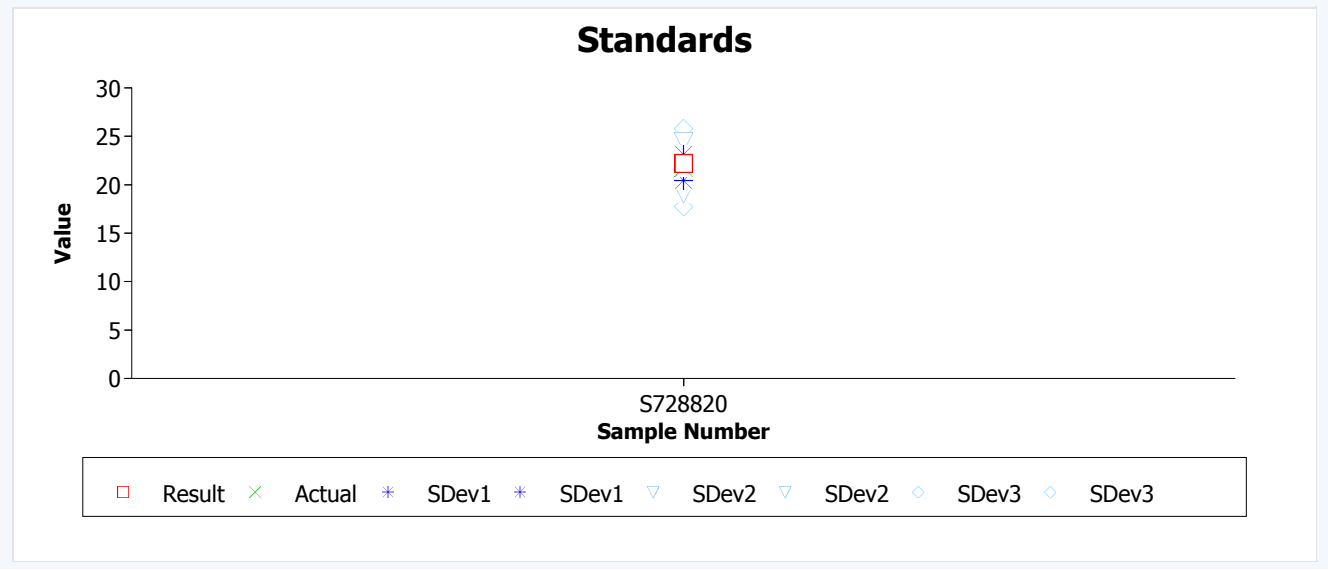
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CONTROL CHARTS

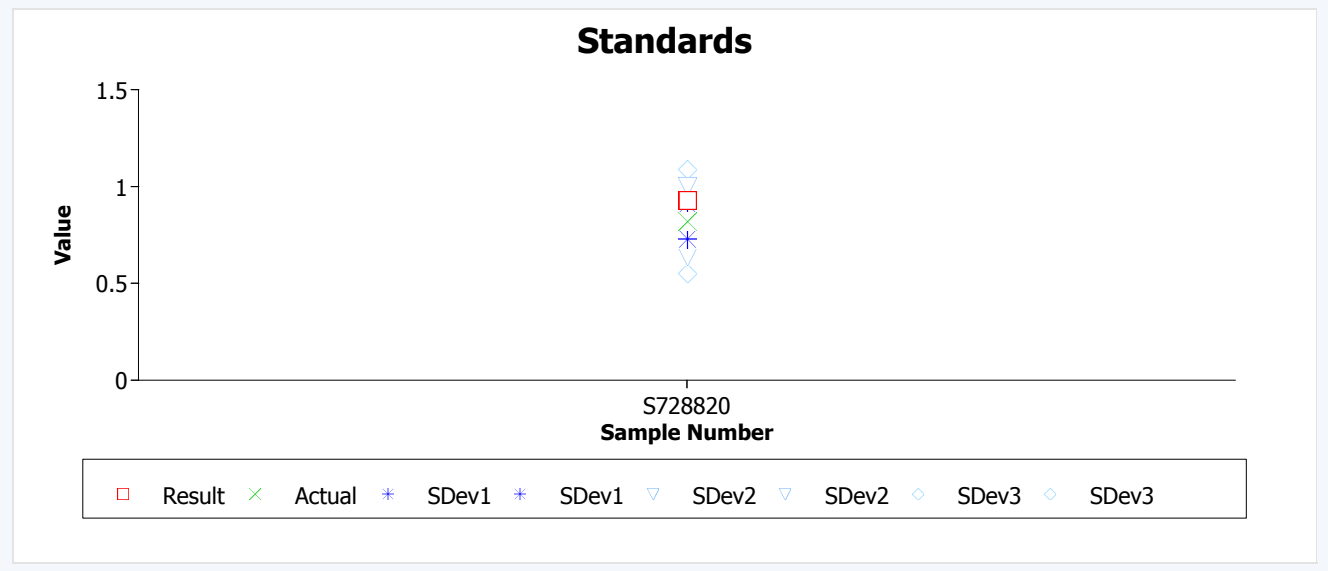
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S728820	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	22.2000	1.35000000	3			



Sb	ppm	MEMS61										
S728820	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9300	0.09000000	3			



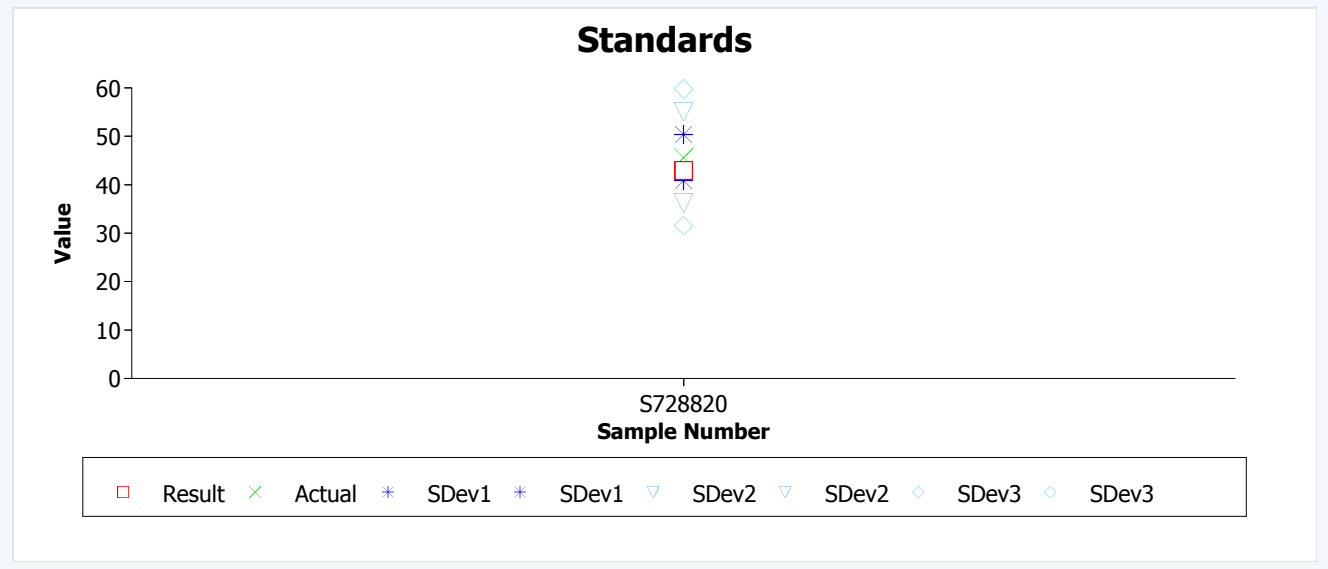
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CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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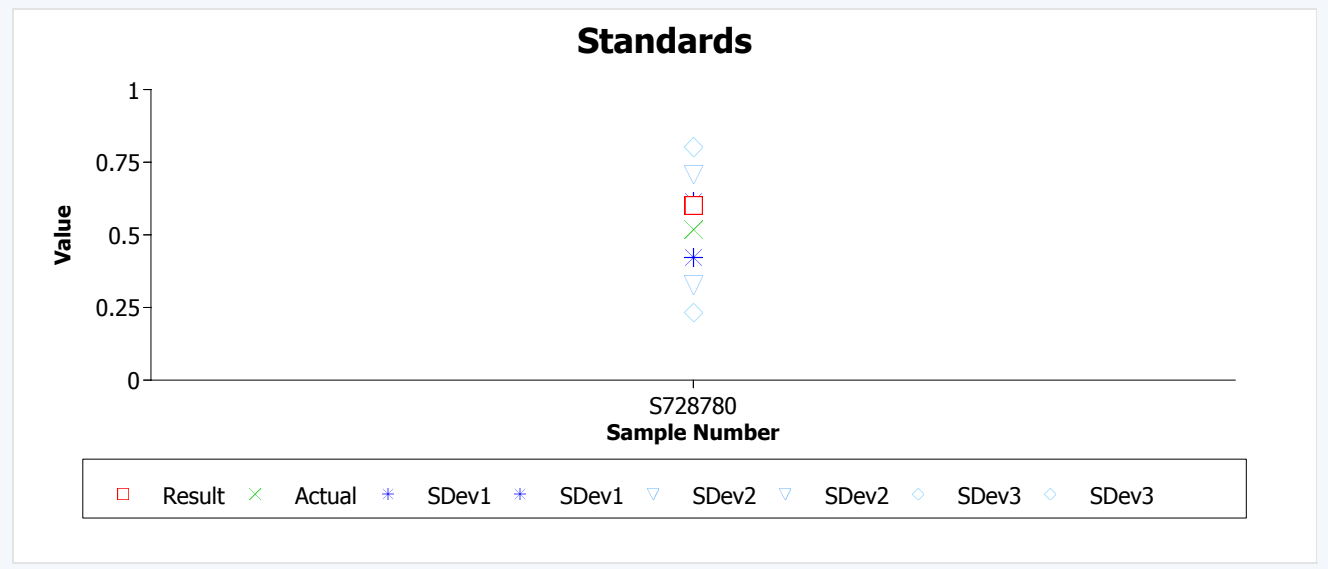
OREAS45D

Zn	ppm	MEMS61										
S728820	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			



OREAS905

Ag	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.6000	0.09500000	3			



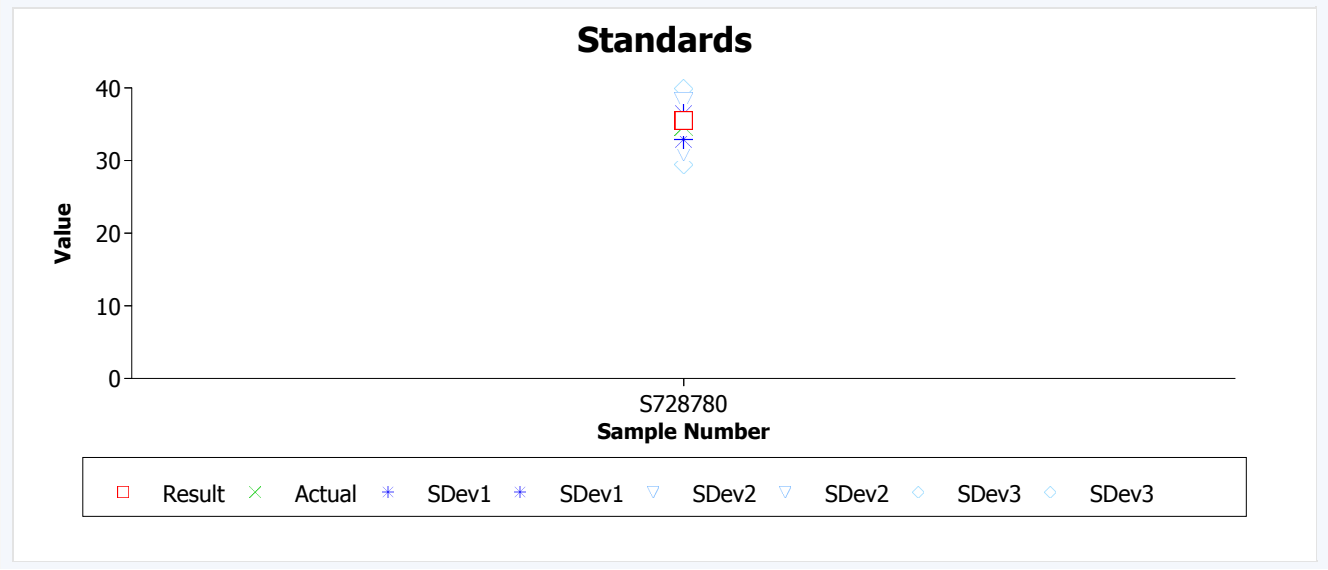
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CONTROL CHARTS

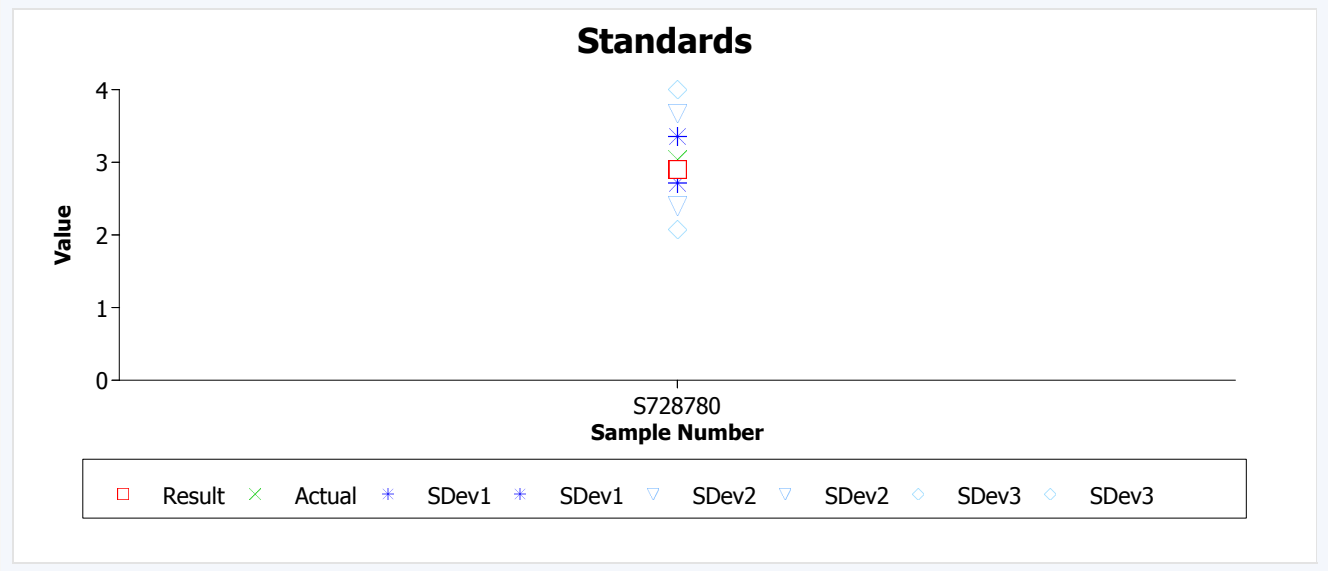
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

As	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	35.5000	1.74000000	3			



Be	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	2.9000	0.32000000	3			



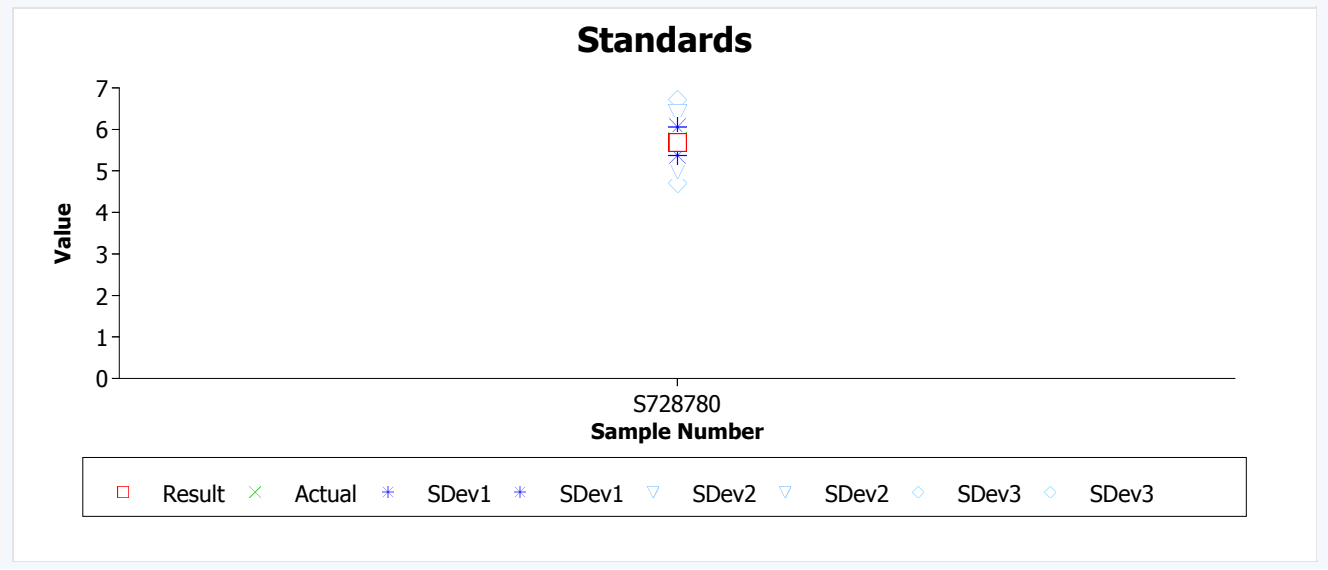
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CONTROL CHARTS

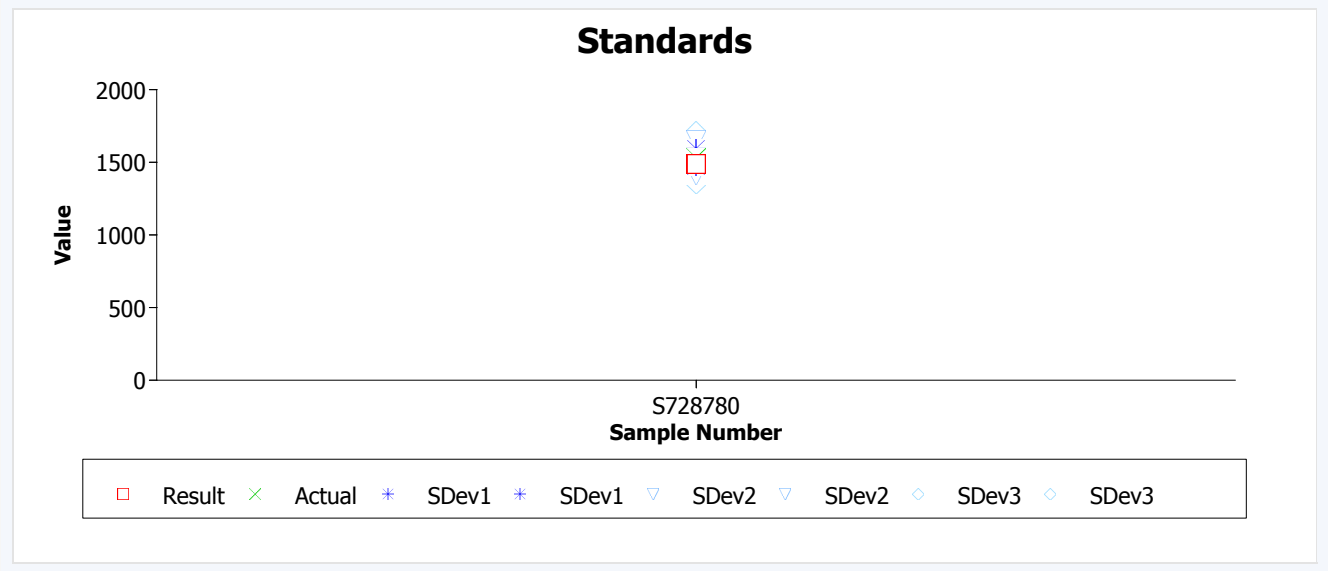
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Bi	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:		5.7200	5.6900	0.33700000	3		



Cu	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:		1533.0000	1490.0000	61.00000000	3		



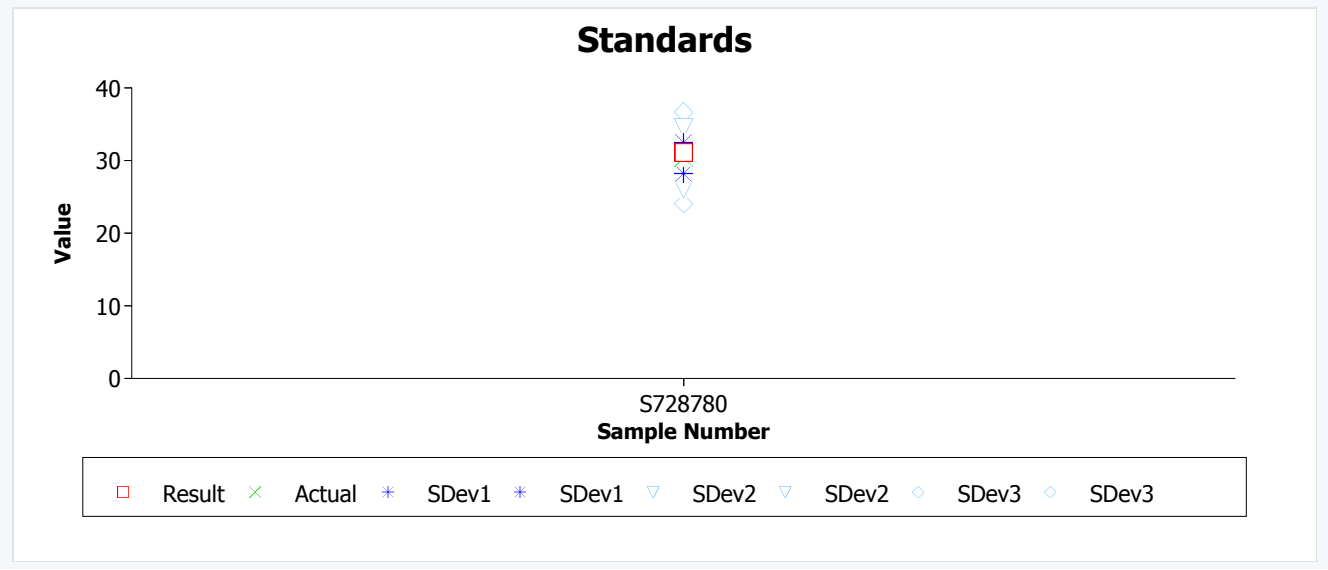
Oct 25, 2016

CONTROL CHARTS

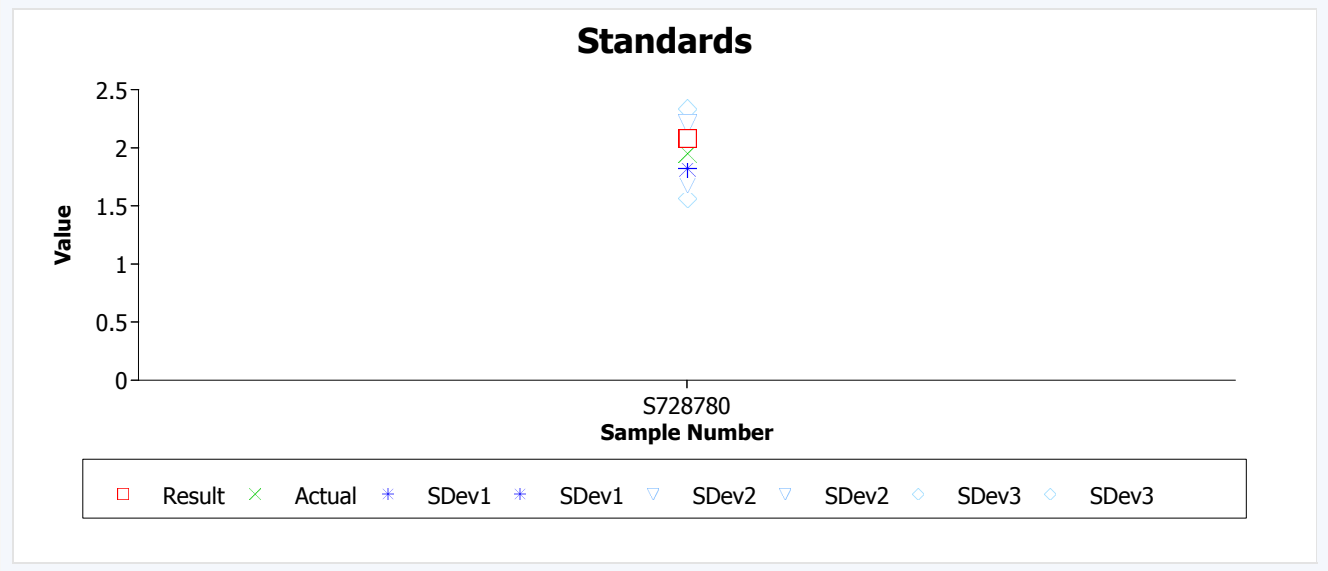
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Pb	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.1000	2.10000000	3			



Sb	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0800	0.12800000	3			



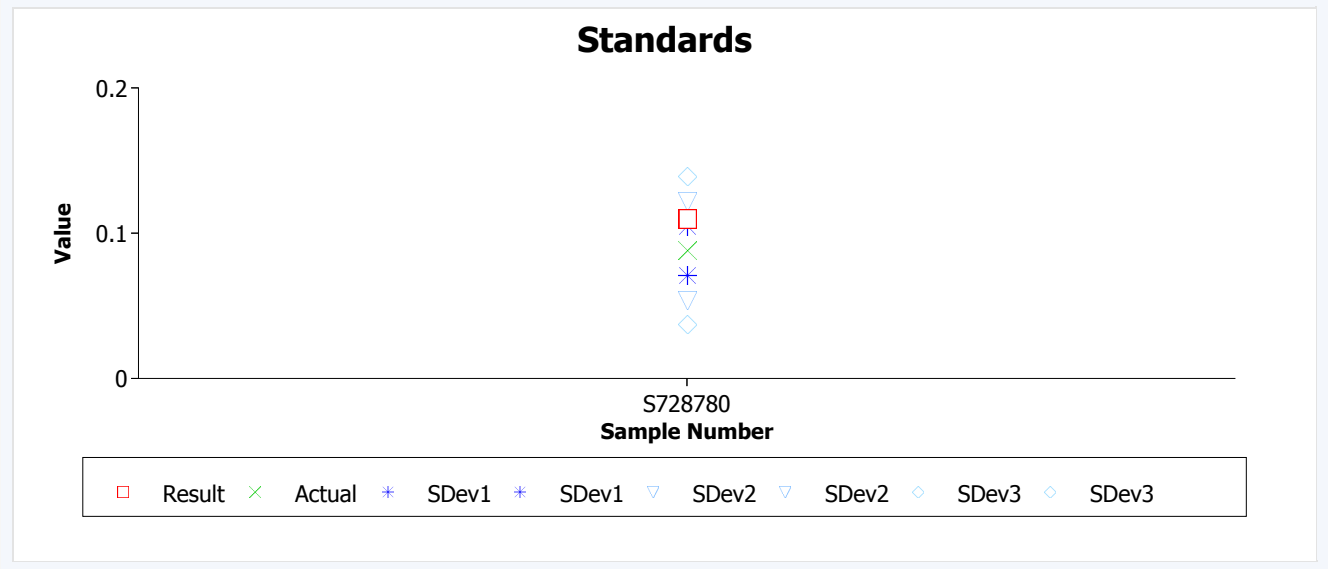
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CONTROL CHARTS

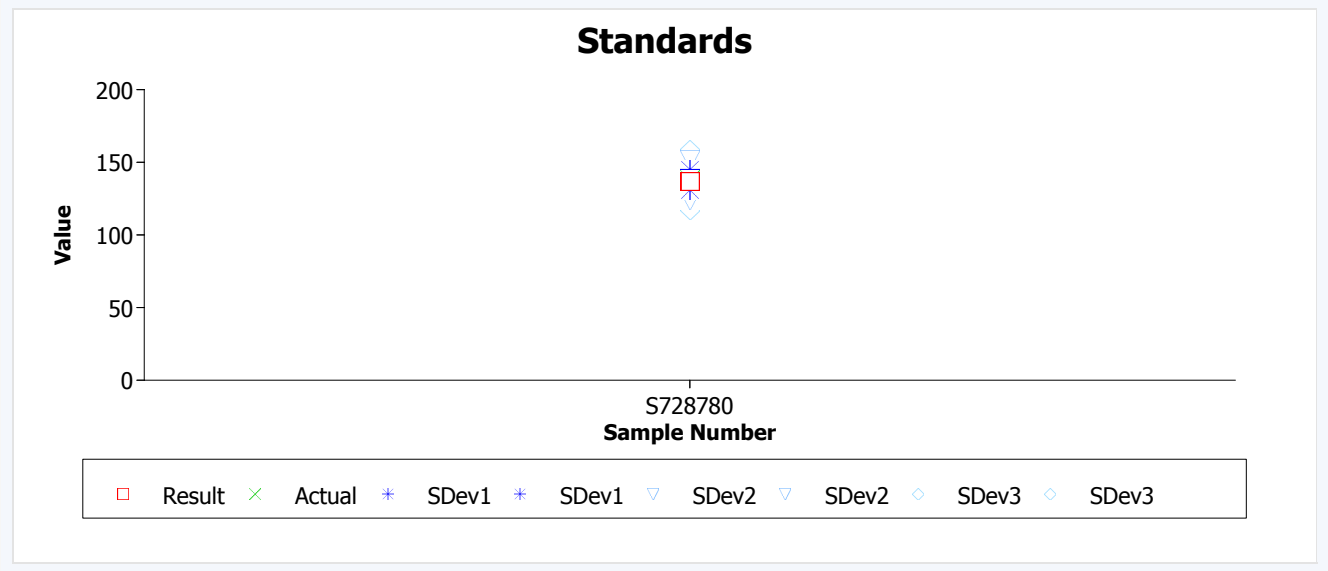
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Te	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.1100	0.01700000	3			



Zn	ppm	MEMS61										
S728780	2016-Qiqavik Fiel	VO16127863	2016-09-04	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	137.0000	7.00000000	3			



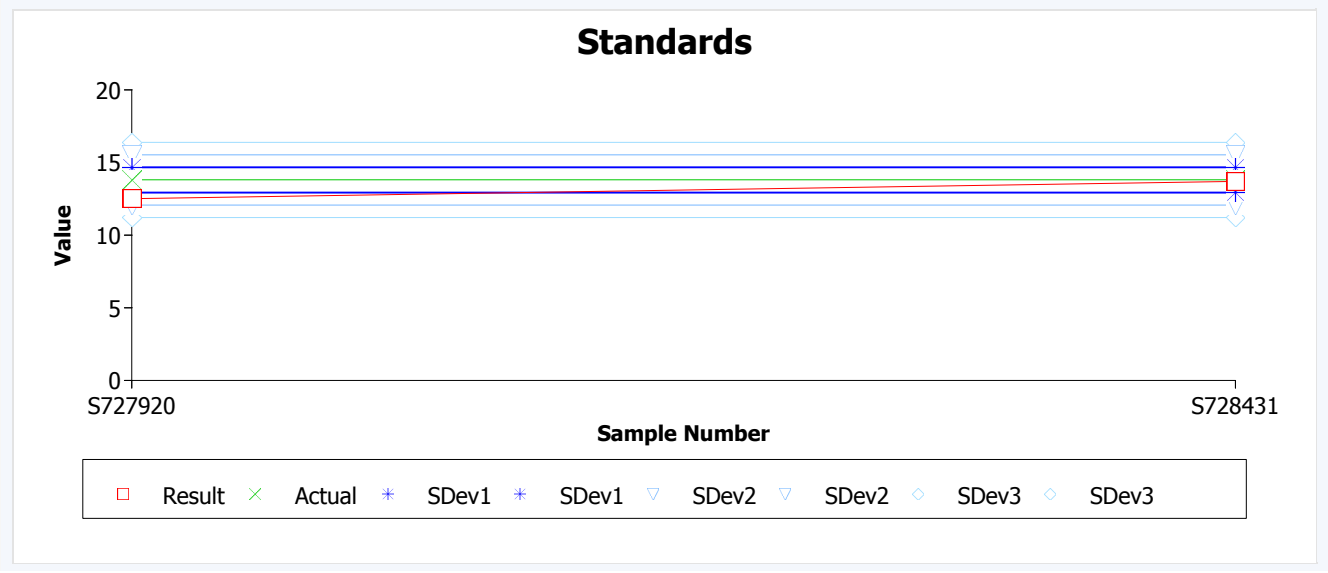
Oct 25, 2016

CONTROL CHARTS

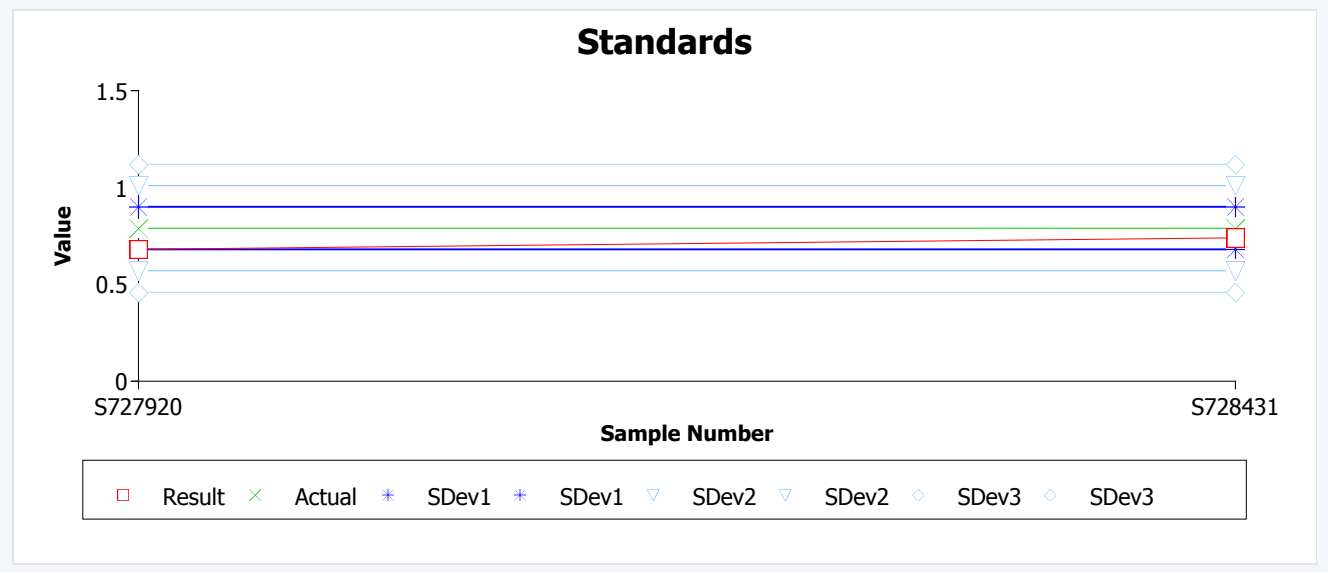
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	12.5000	0.86000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.7000	0.86000000	3			



Be	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.6800	0.11000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7400	0.11000000	3			



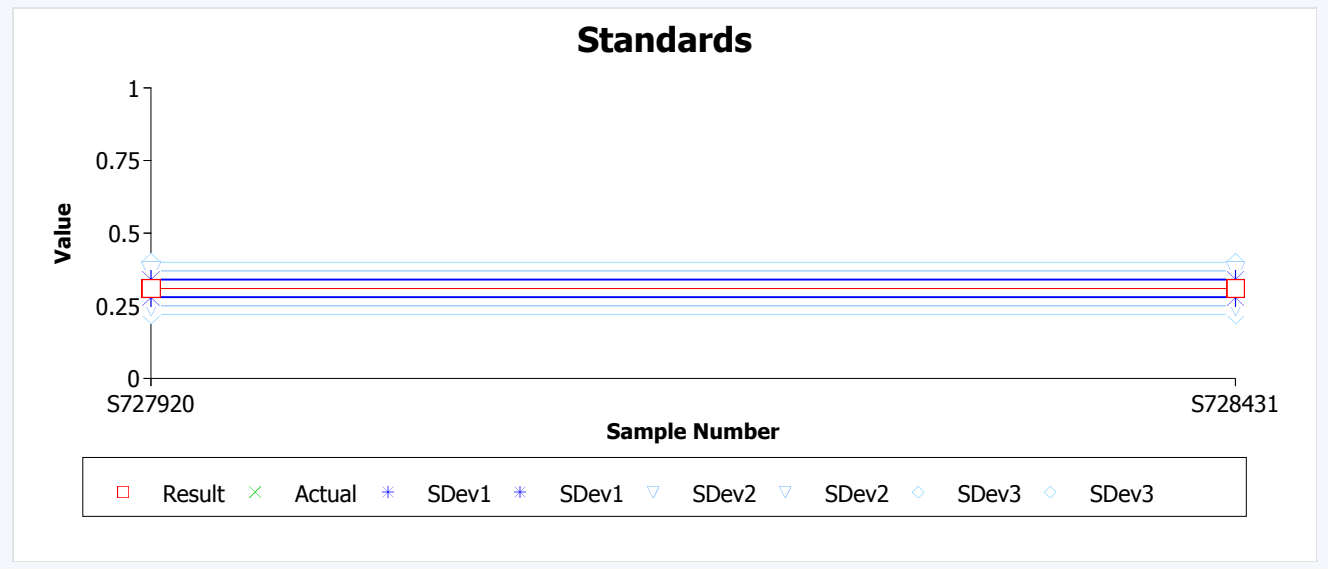
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CONTROL CHARTS

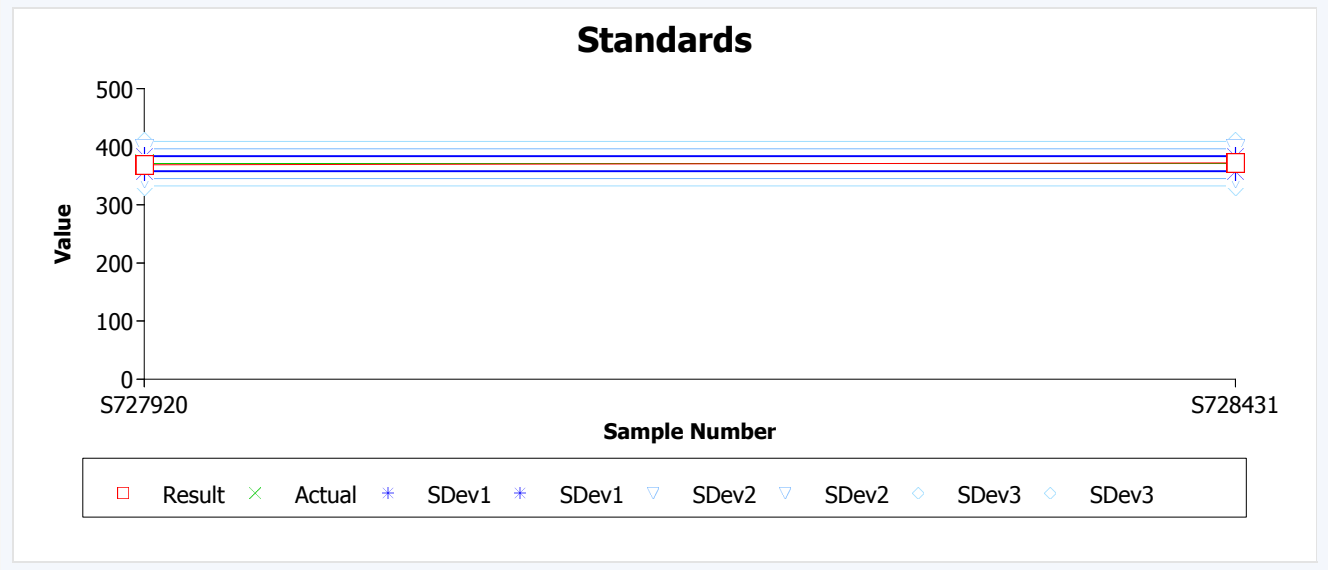
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			



Cu	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	369.0000	12.80000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	372.0000	12.80000000	3			



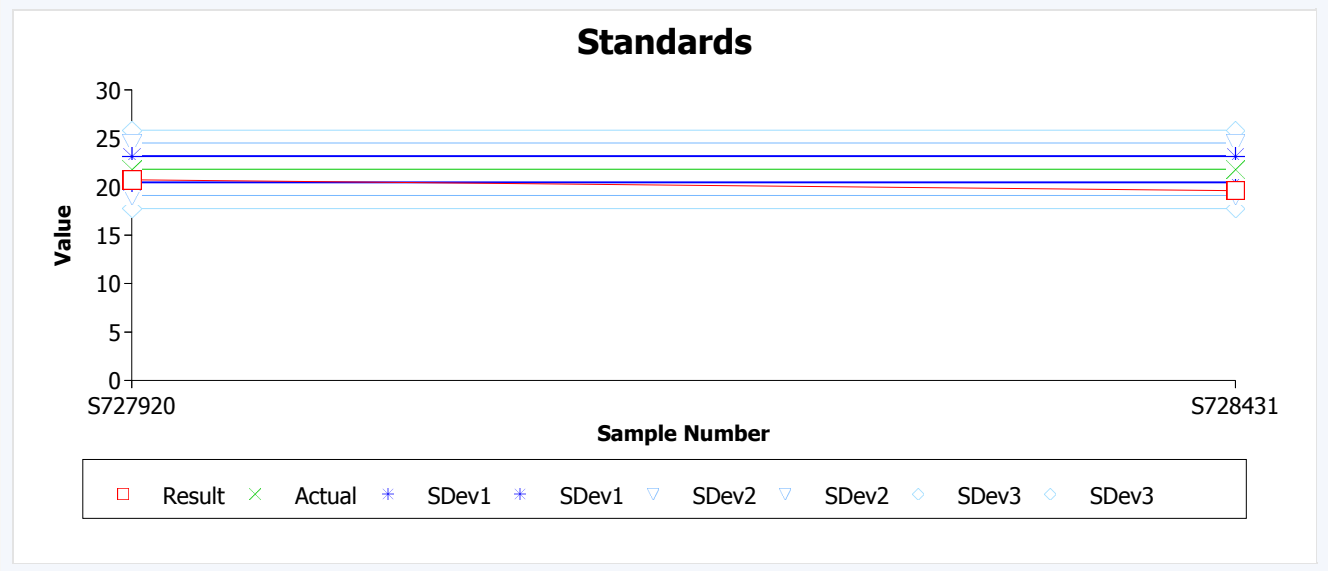
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CONTROL CHARTS

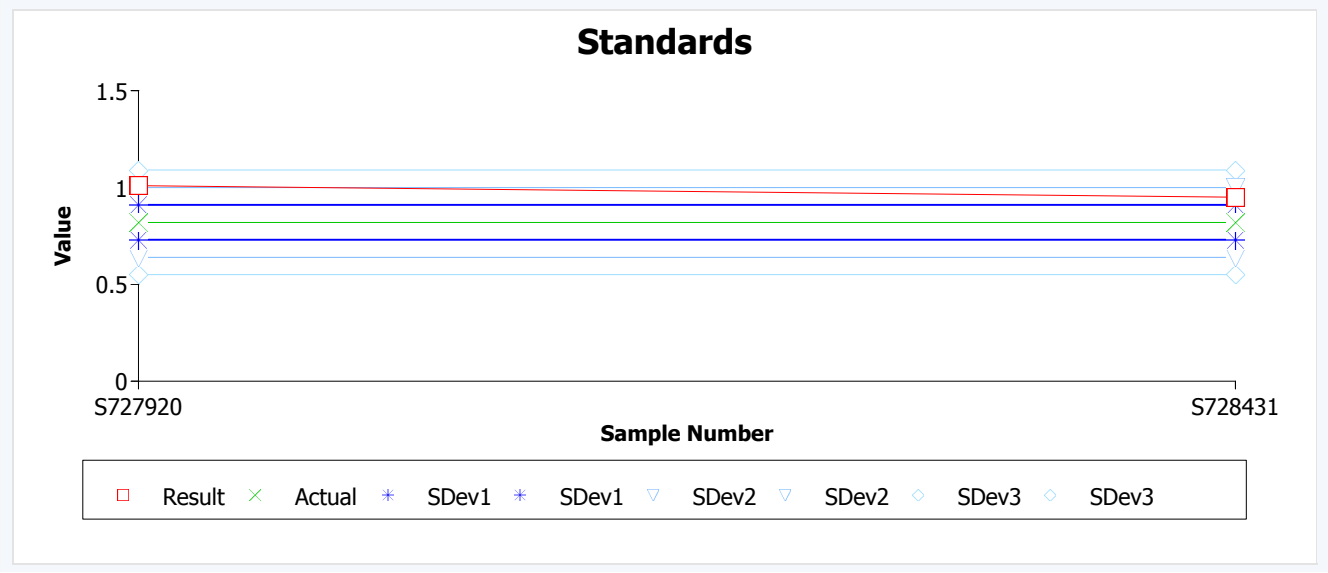
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.7000	1.35000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	19.6000	1.35000000	3			



Sb	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	1.0100	0.09000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9500	0.09000000	3			



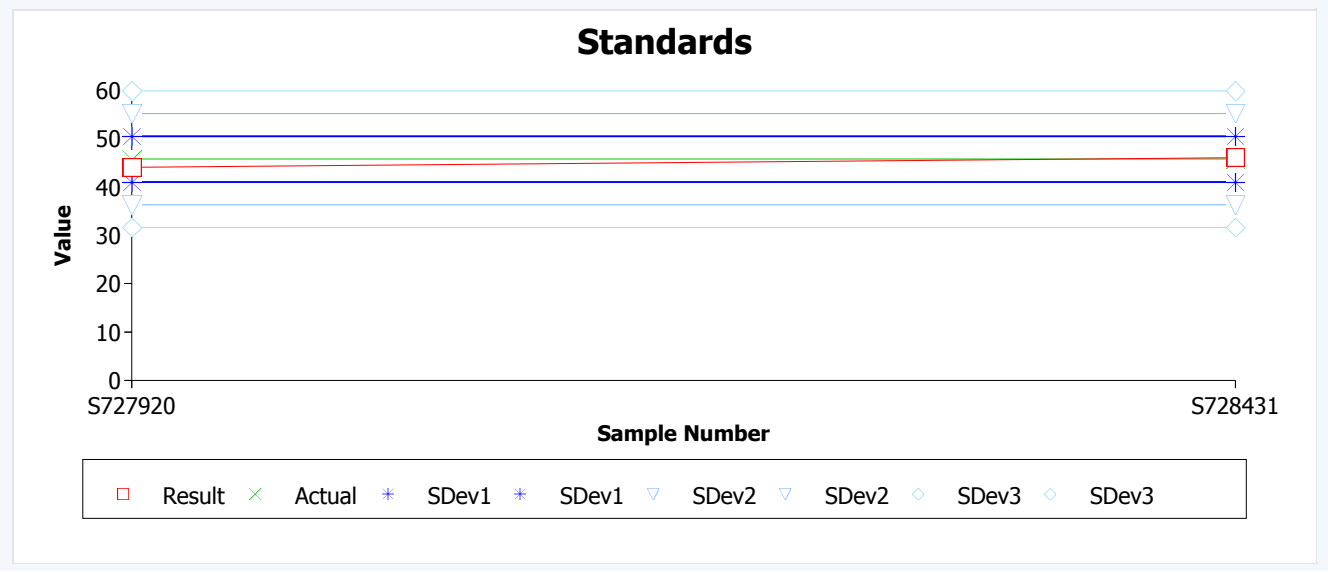
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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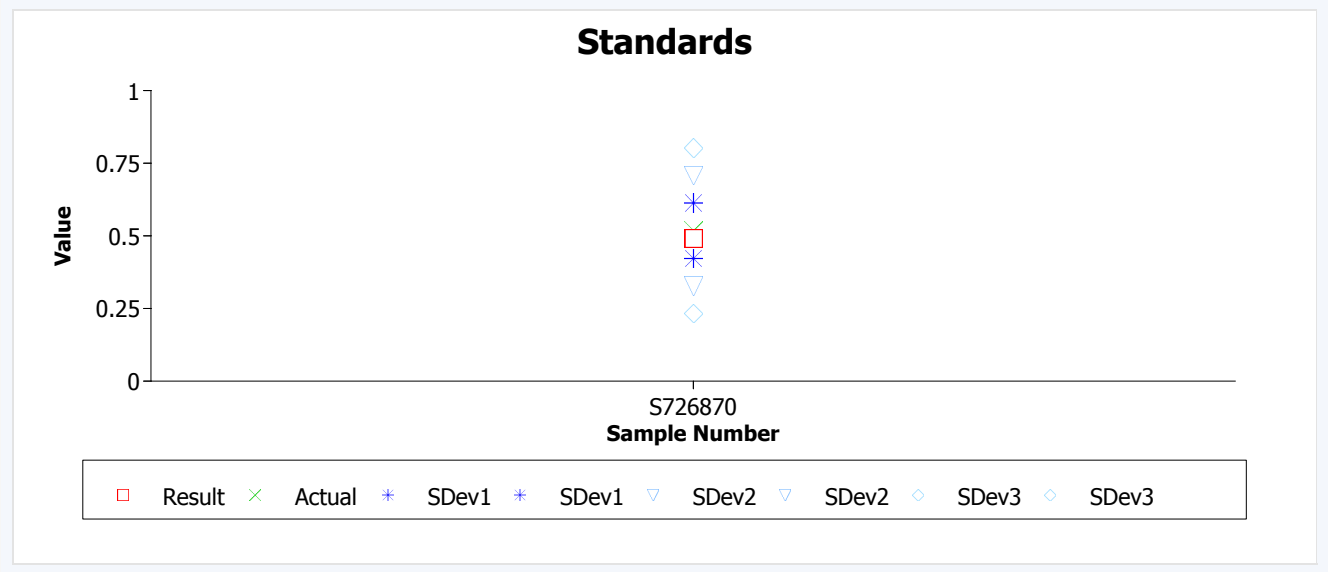
OREAS45D

Zn	ppm	MEMS61										
S727920	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	44.0000	4.70000000	3			
S728431	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	46.0000	4.70000000	3			



OREAS905

Ag	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.4900	0.09500000	3			



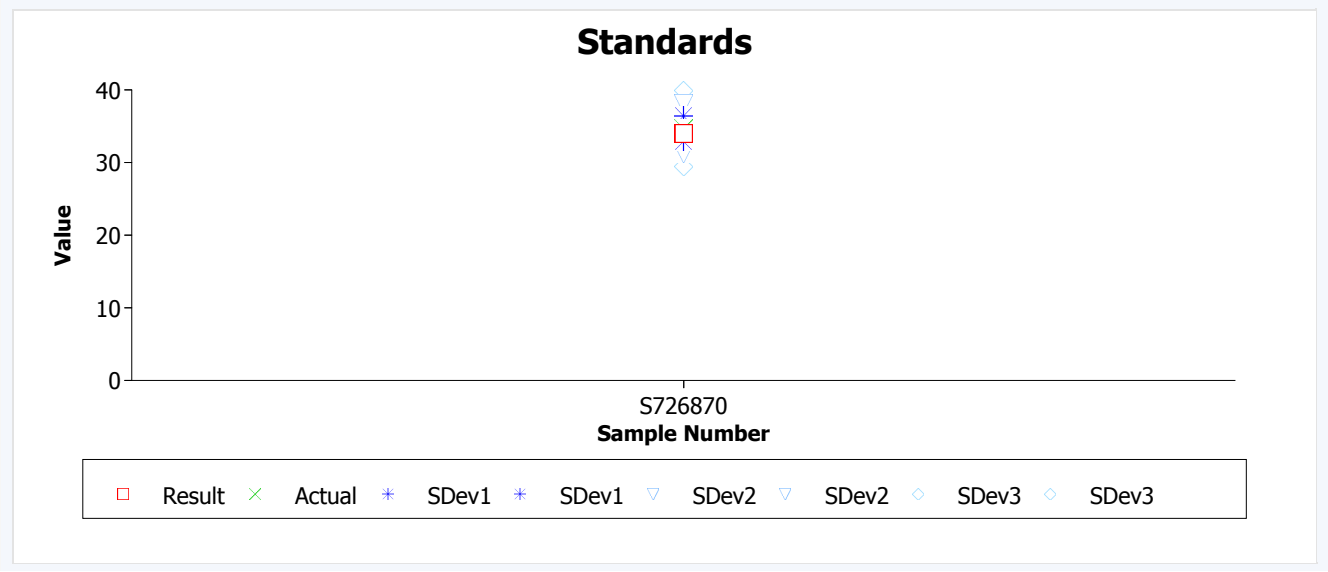
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CONTROL CHARTS

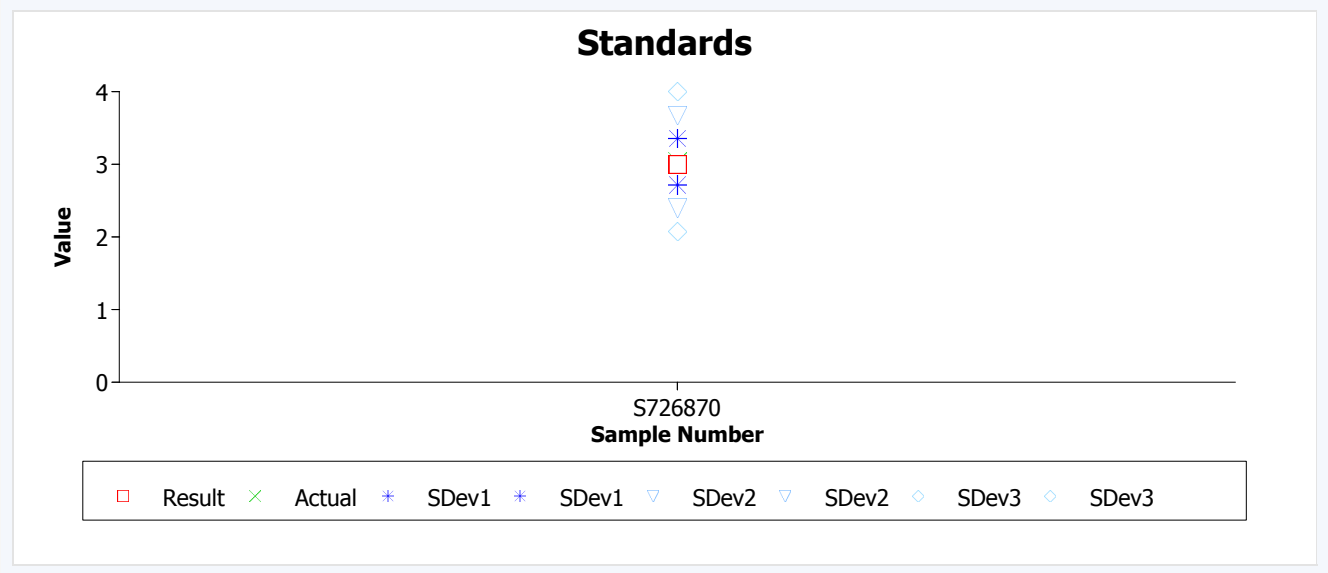
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

As	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	34.0000	1.74000000	3			



Be	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.0000	0.32000000	3			



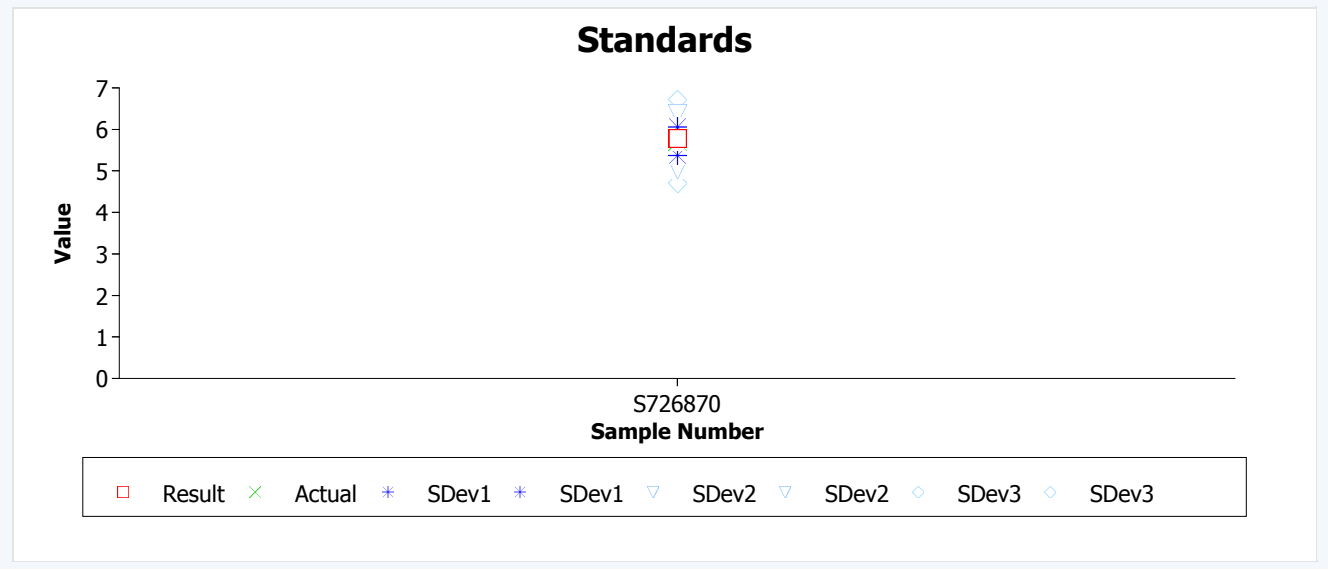
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CONTROL CHARTS

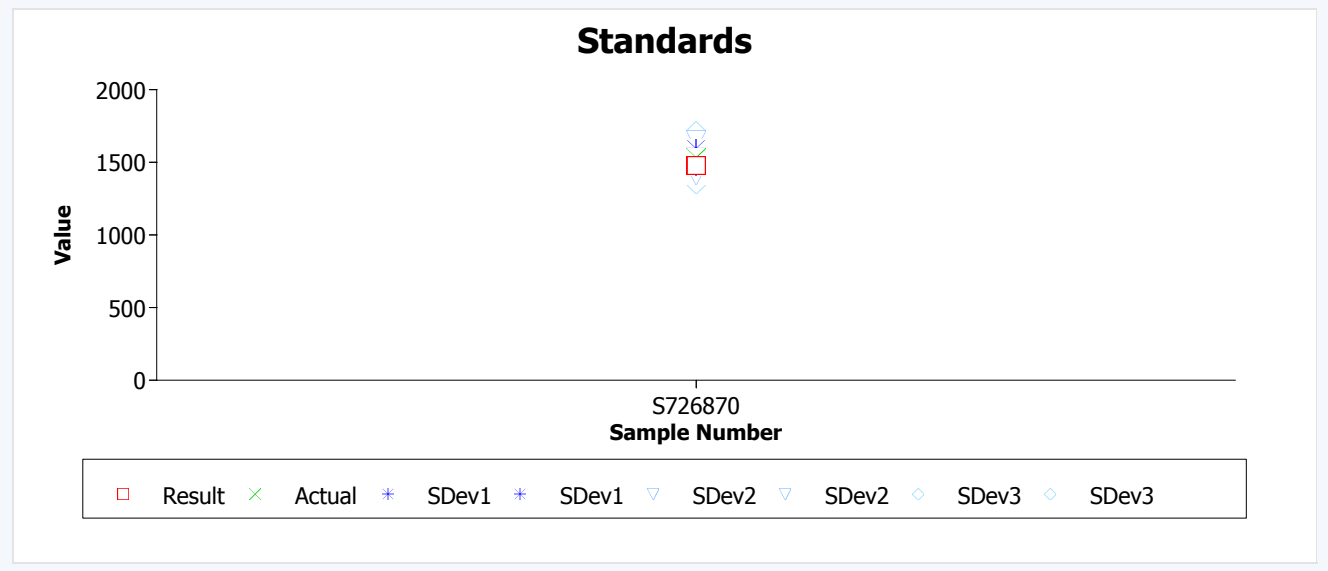
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Bi	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:		5.7200	5.7800	0.33700000	3		



Cu	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1480.0000	61.00000000	3			



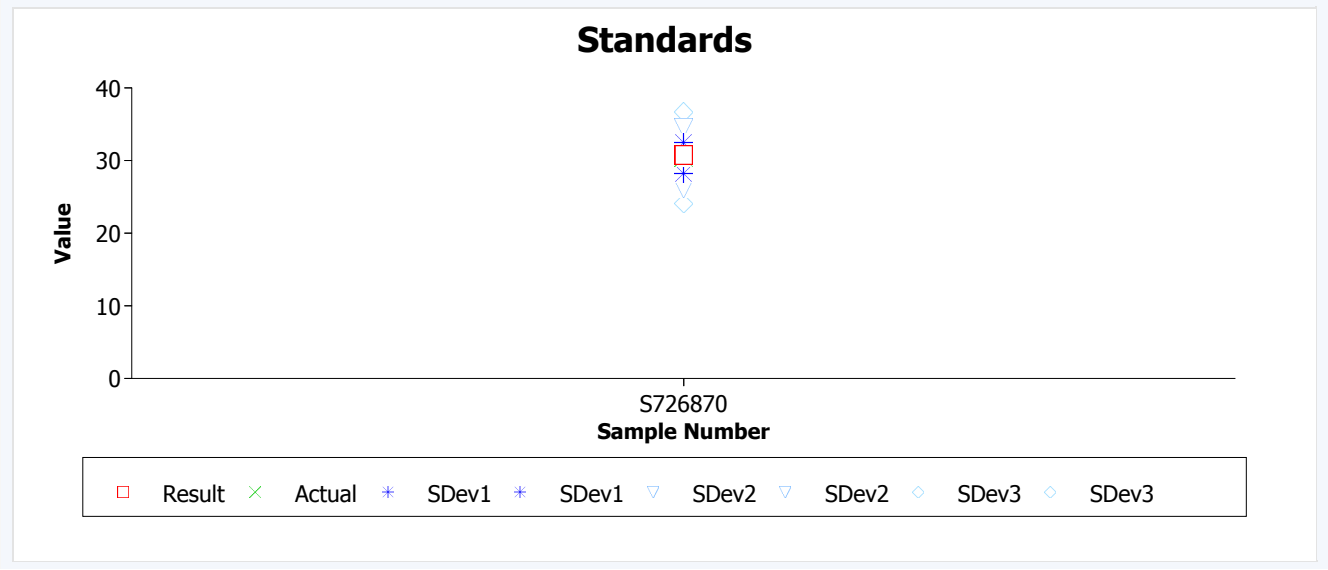
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CONTROL CHARTS

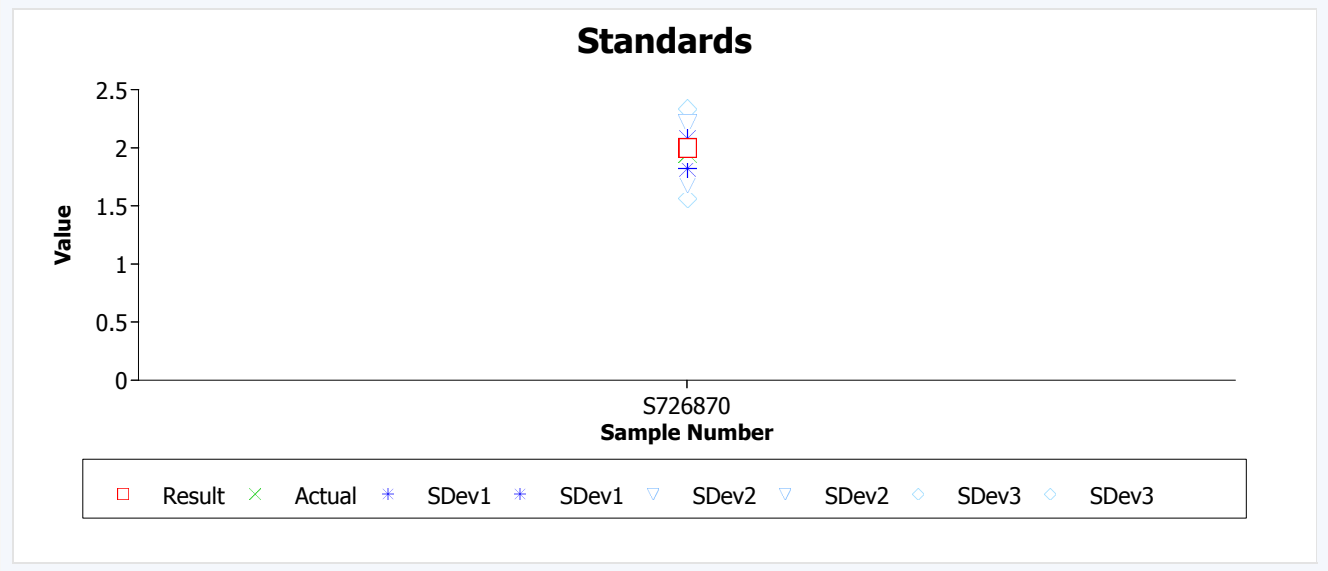
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Pb	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	30.8000	2.10000000	3			



Sb	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0000	0.12800000	3			



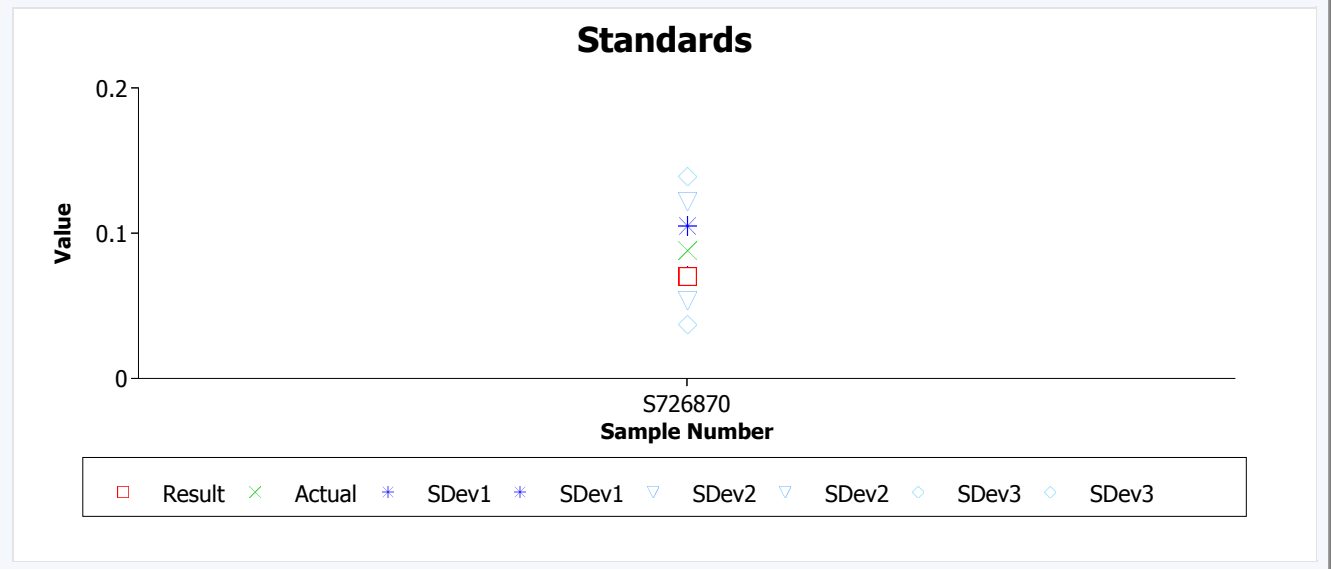
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CONTROL CHARTS

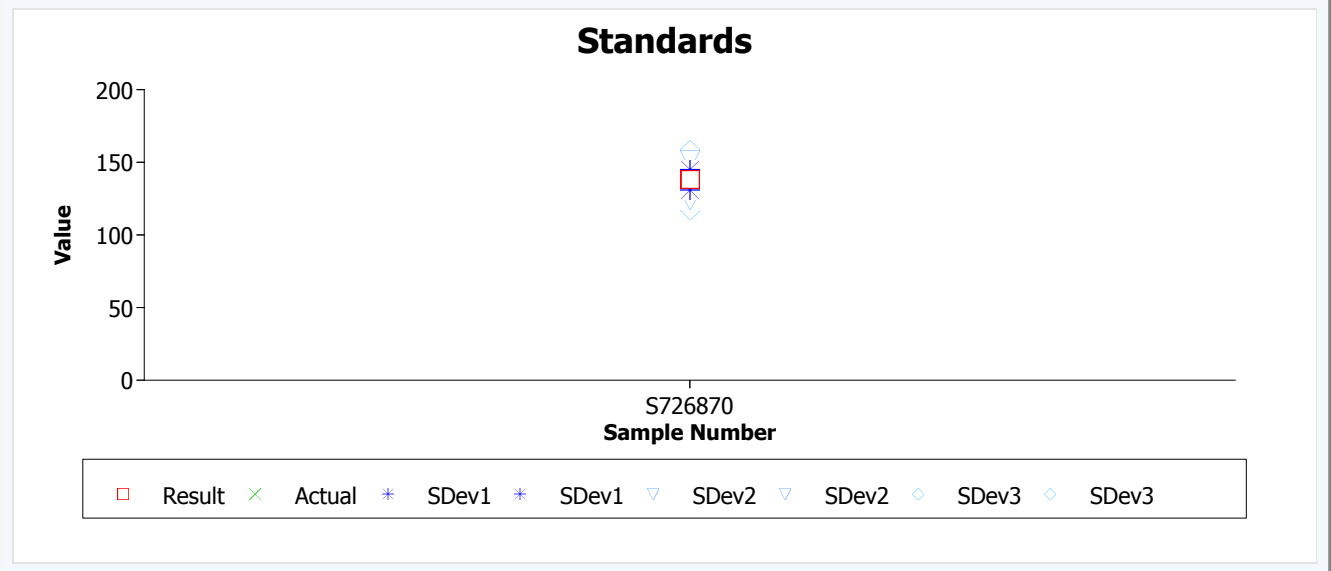
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Te	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0700	0.01700000	3			



Zn	ppm	MEMS61										
S726870	2016-Qiqavik Fiel	VO16127865	2016-09-05	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	138.0000	7.00000000	3			



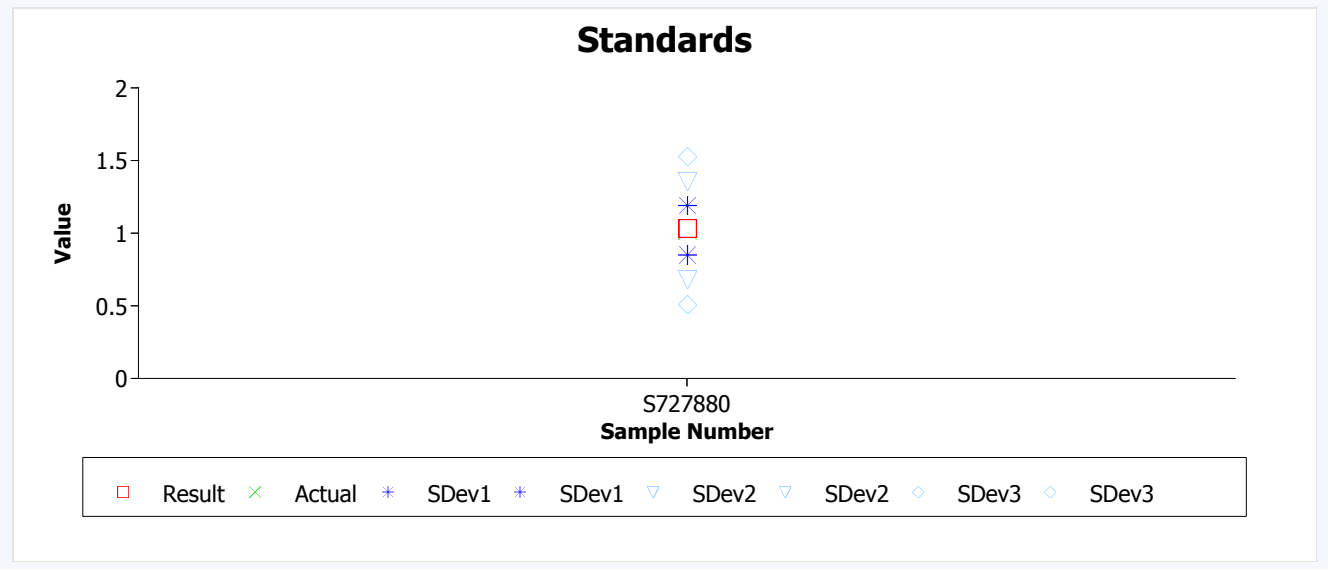
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CONTROL CHARTS

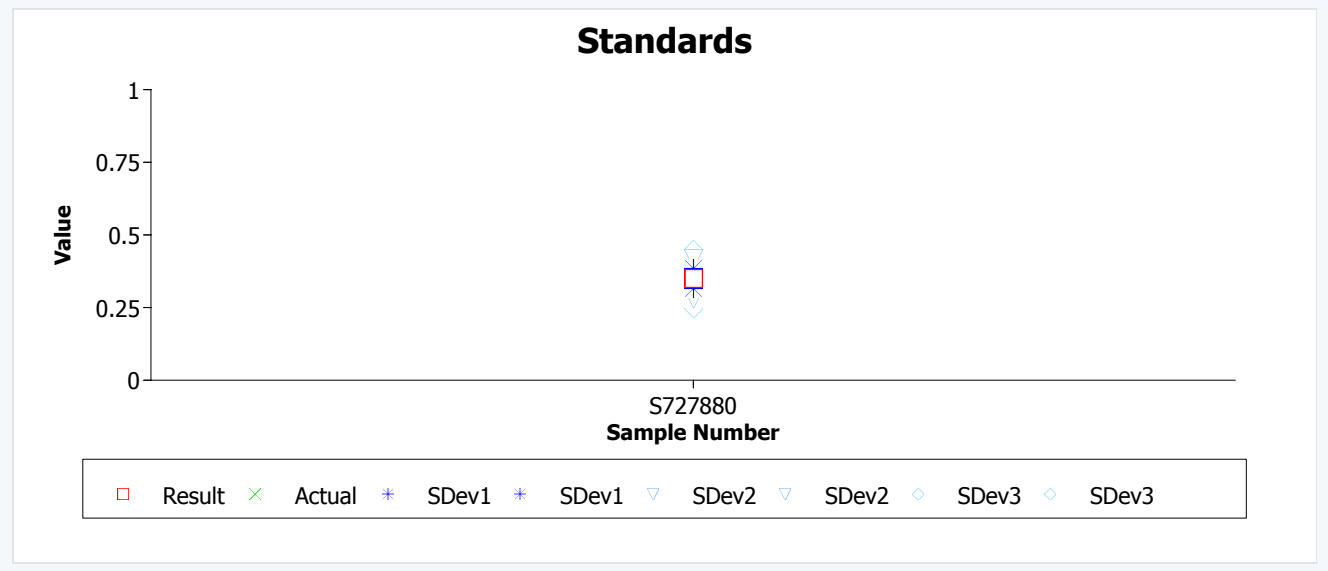
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:		1.0200	1.0300	0.17000000	3		



Bi	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:		0.3500	0.3500	0.03400000	3		



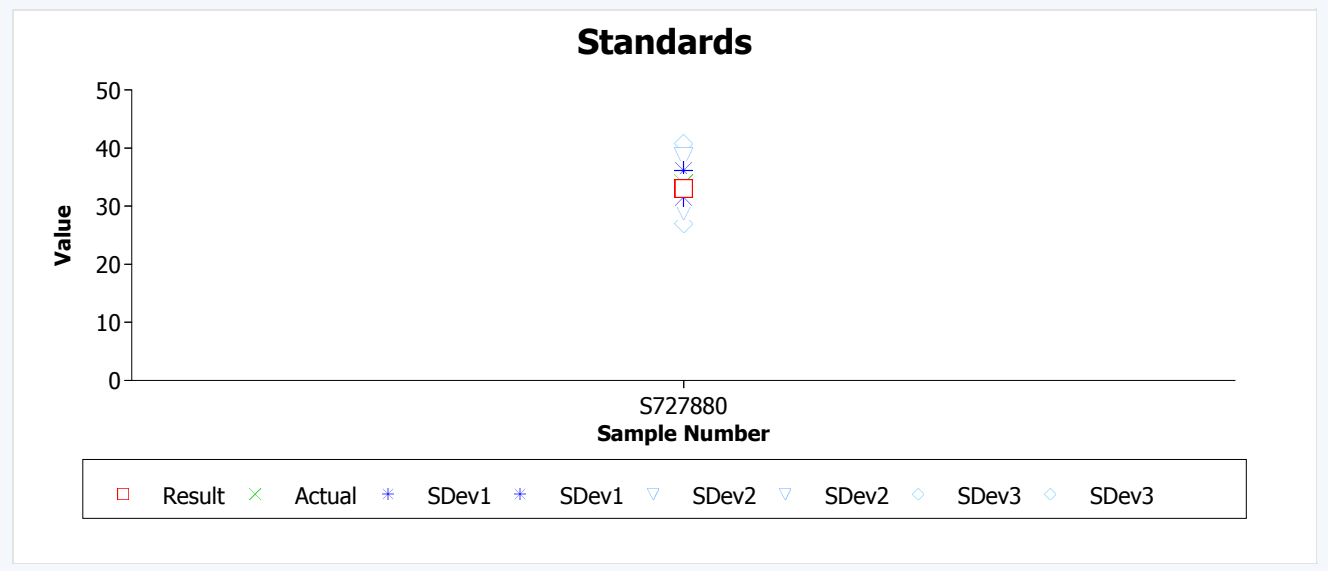
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CONTROL CHARTS

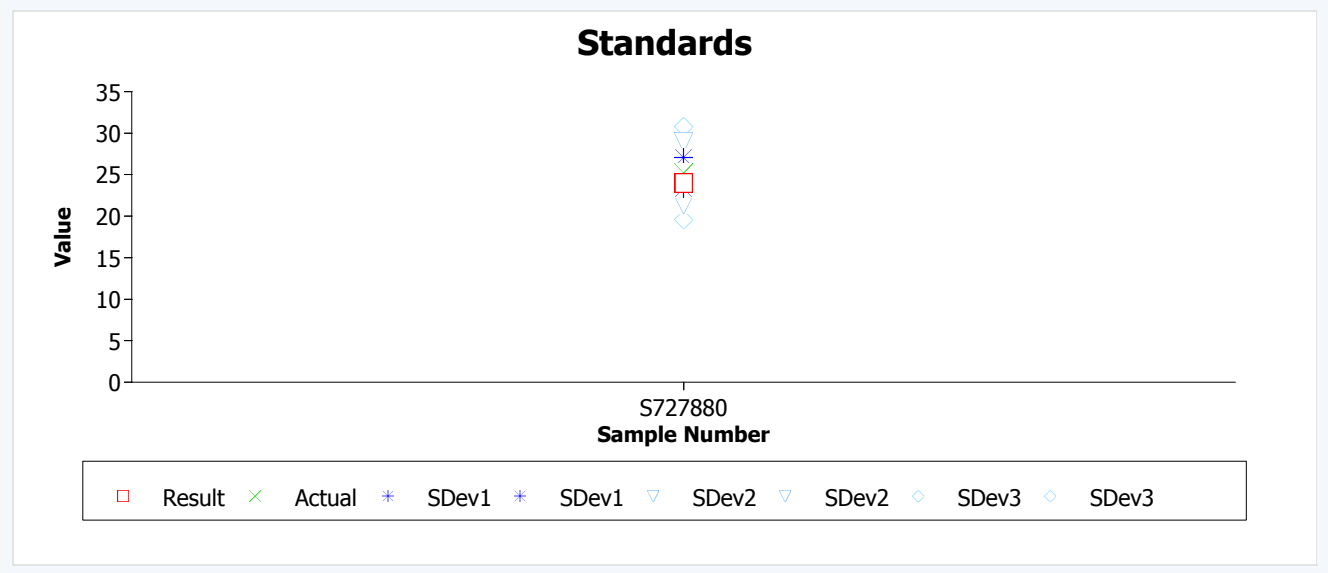
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	33.1000	2.29000000	3			



Pb	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	24.0000	1.87000000	3			



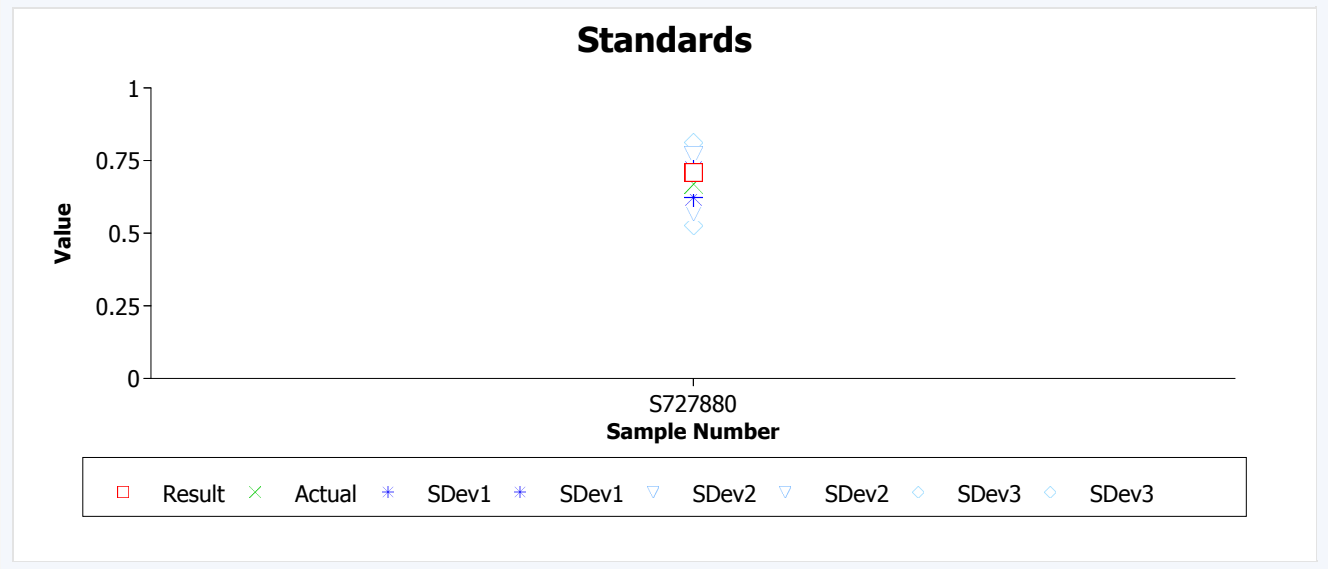
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CONTROL CHARTS

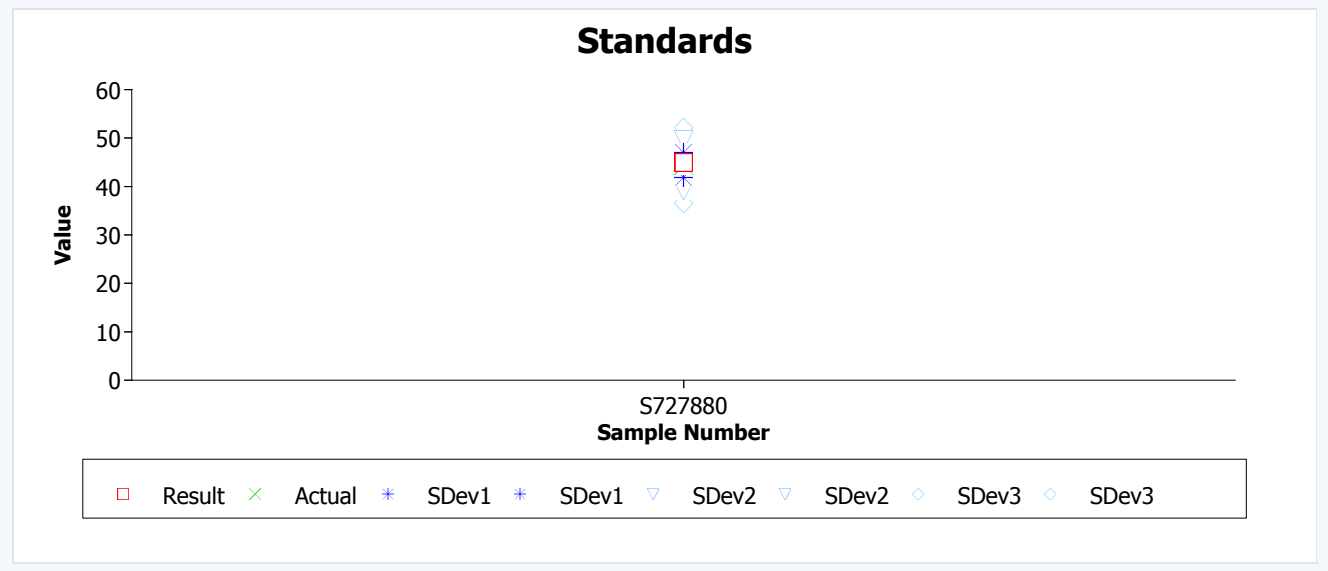
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.7100	0.04800000	3			



Zn	ppm	MEMS61										
S727880	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	45.0000	2.60000000	3			



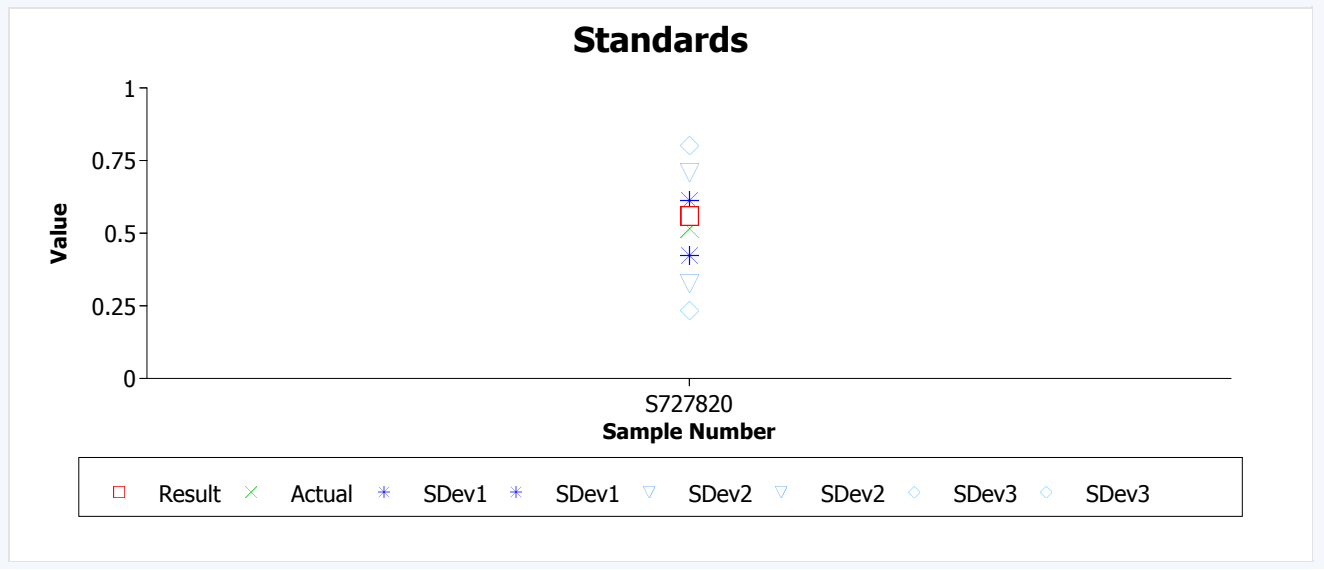
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CONTROL CHARTS

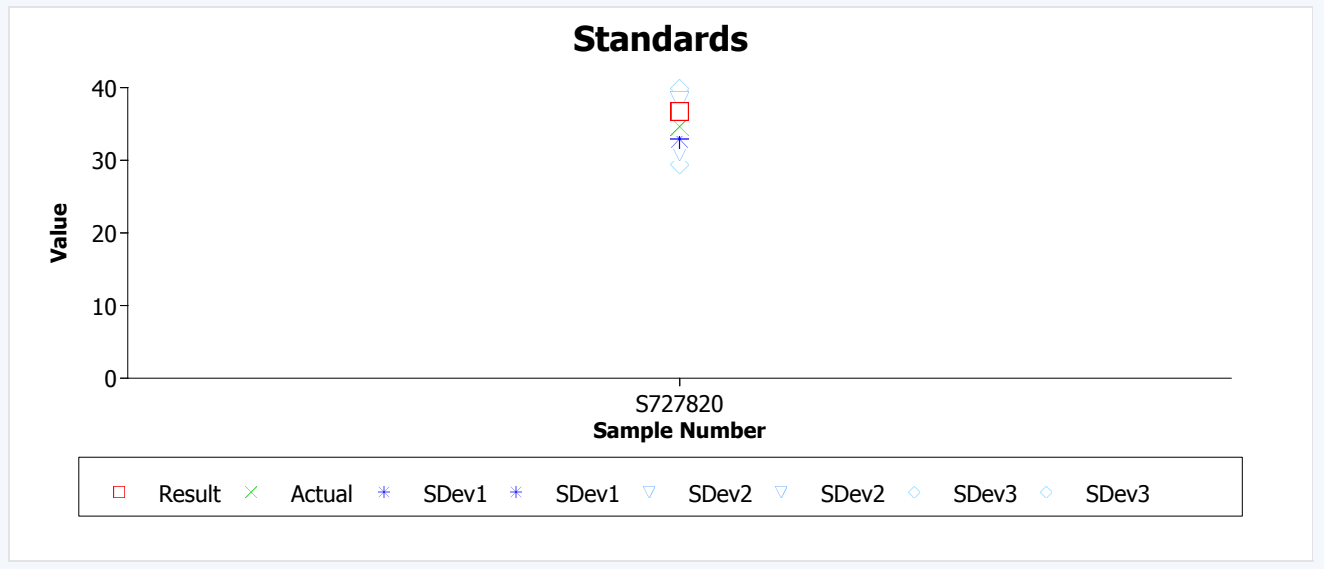
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Ag	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5600	0.09500000	3			



As	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	36.7000	1.74000000	3			



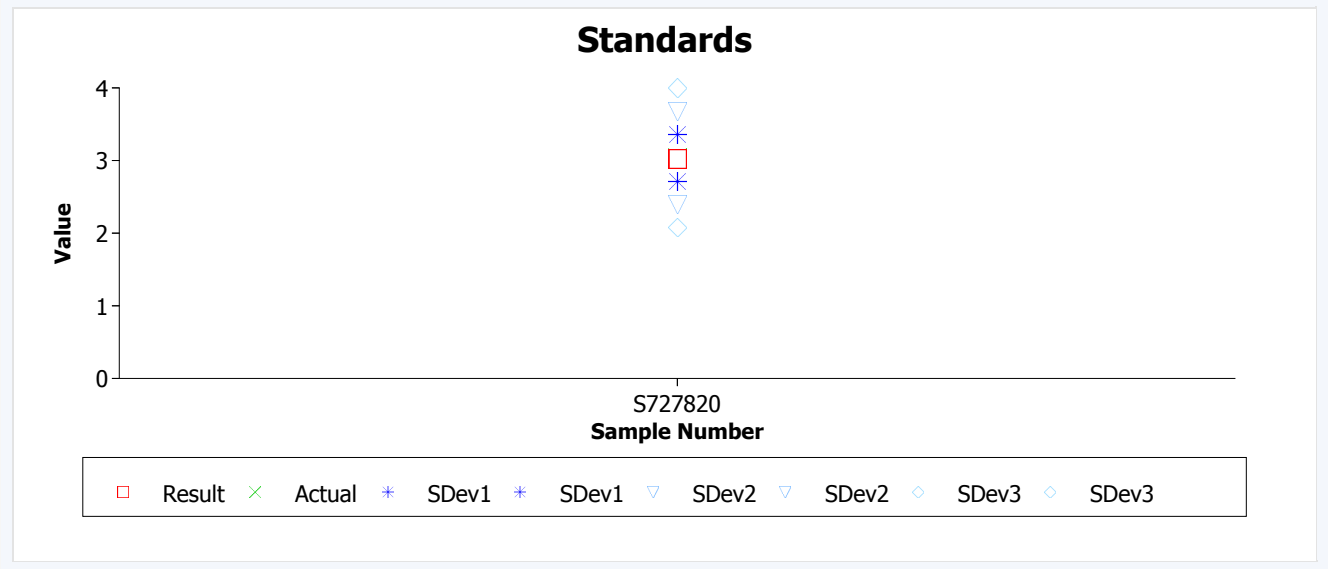
Oct 25, 2016

CONTROL CHARTS

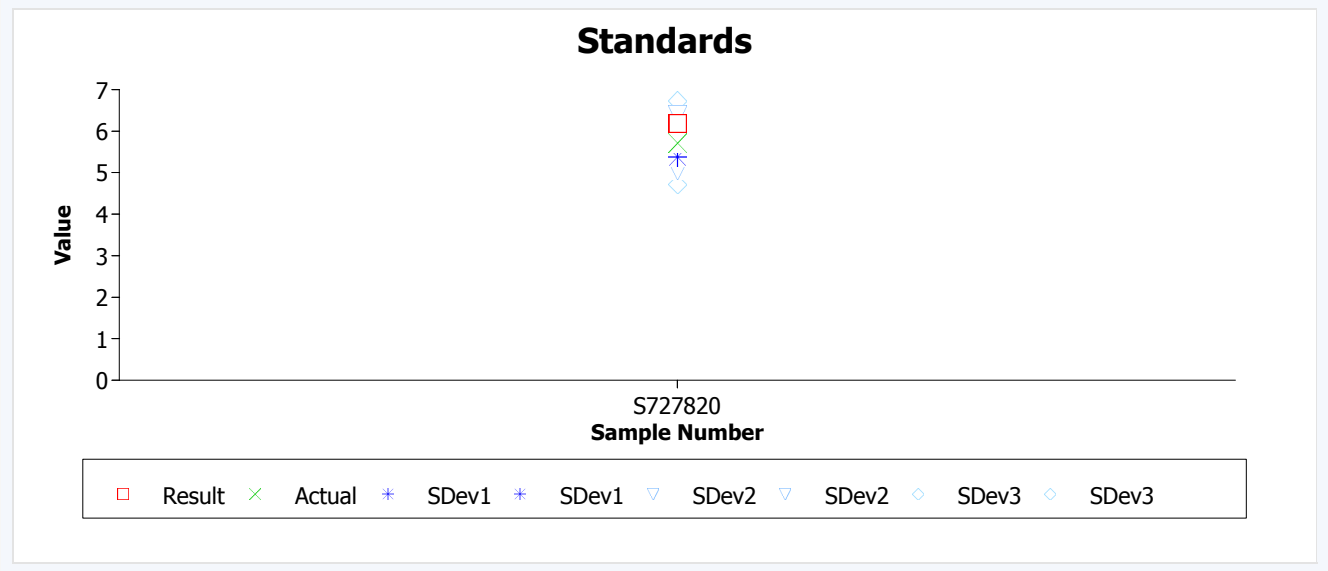
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Be	ppm	MEMS61										
S727820		2016-Qiqavik Fiel VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.0200	0.32000000	3			



Bi	ppm	MEMS61										
S727820		2016-Qiqavik Fiel VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	6.1900	0.33700000	3			



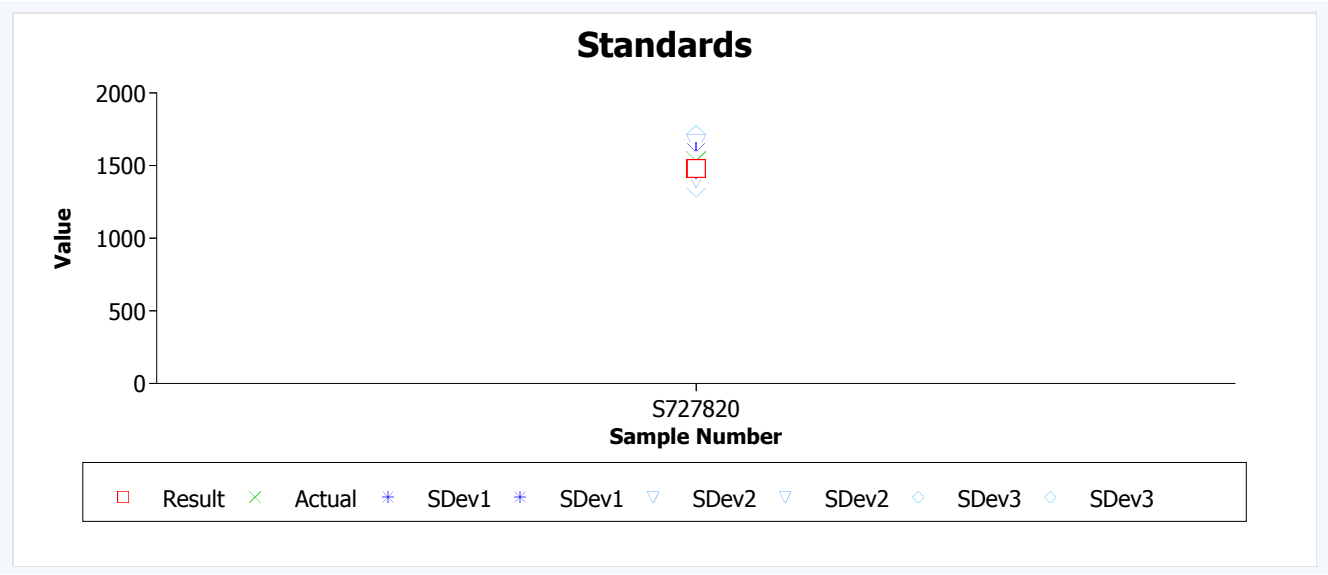
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CONTROL CHARTS

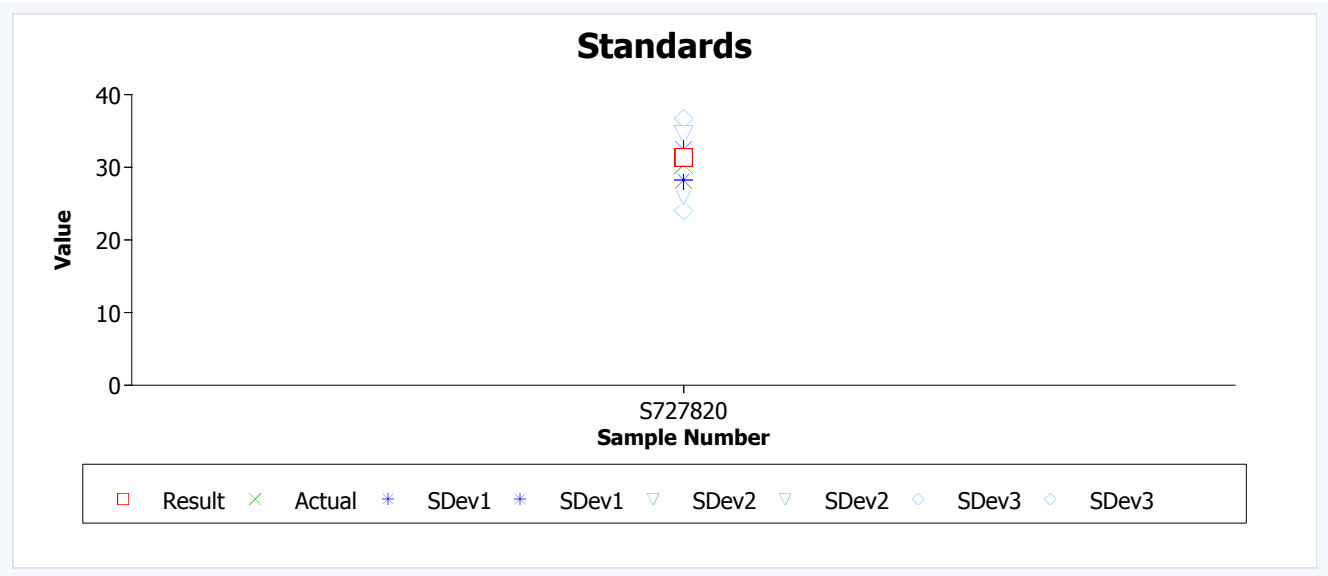
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Cu	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1480.0000	61.00000000	3			



Pb	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.3000	2.10000000	3			



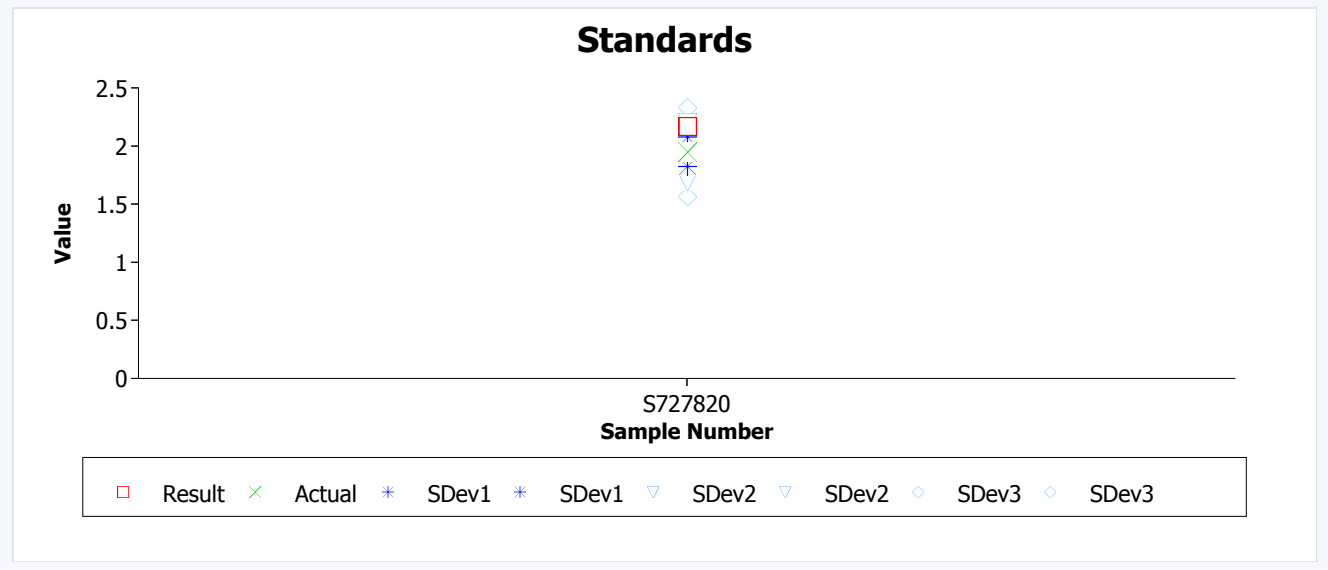
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CONTROL CHARTS

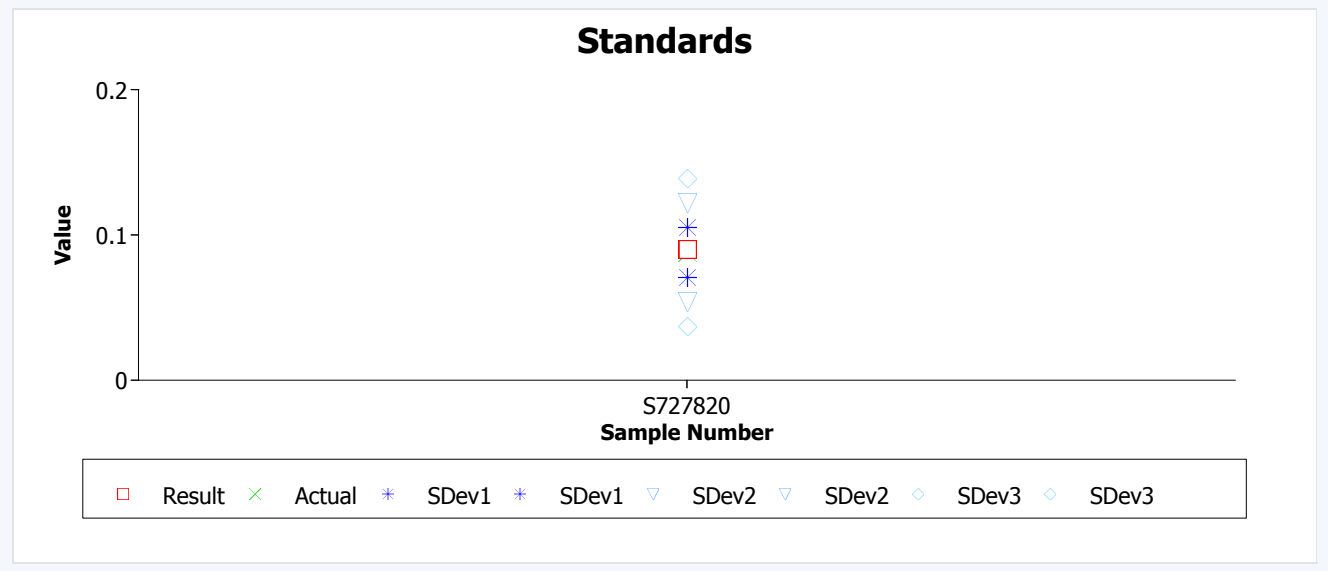
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Sb	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:		1.9500	2.1700	0.12800000	3		



Te	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:		0.0880	0.0900	0.01700000	3		



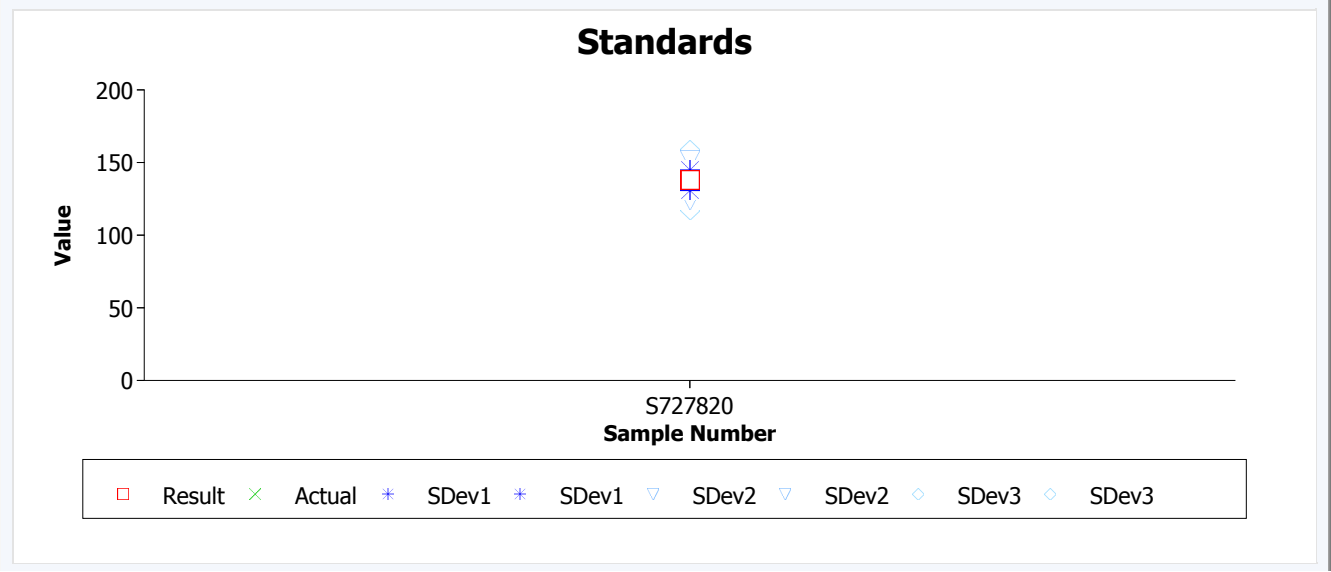
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CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Zn	ppm	MEMS61										
S727820	2016-Qiqavik Fiel	VO16127868	2016-09-03	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	138.0000	7.00000000	3			



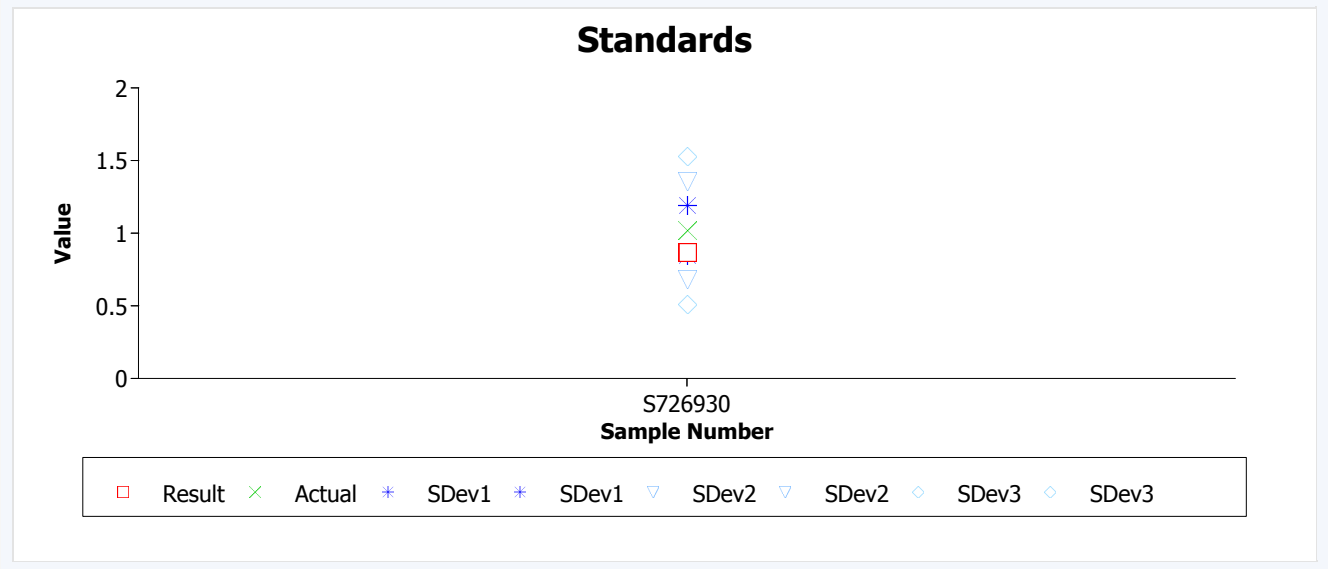
Oct 25, 2016

CONTROL CHARTS

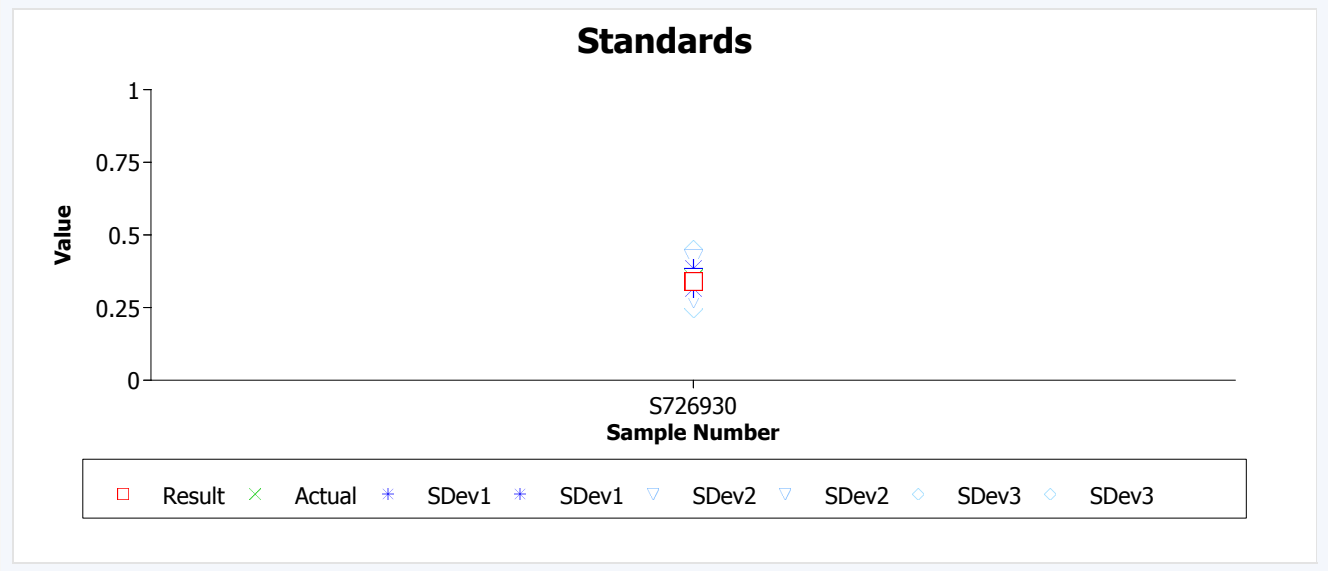
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:		1.0200	0.8700	0.17000000	3		



Bi	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:		0.3500	0.3400	0.03400000	3		



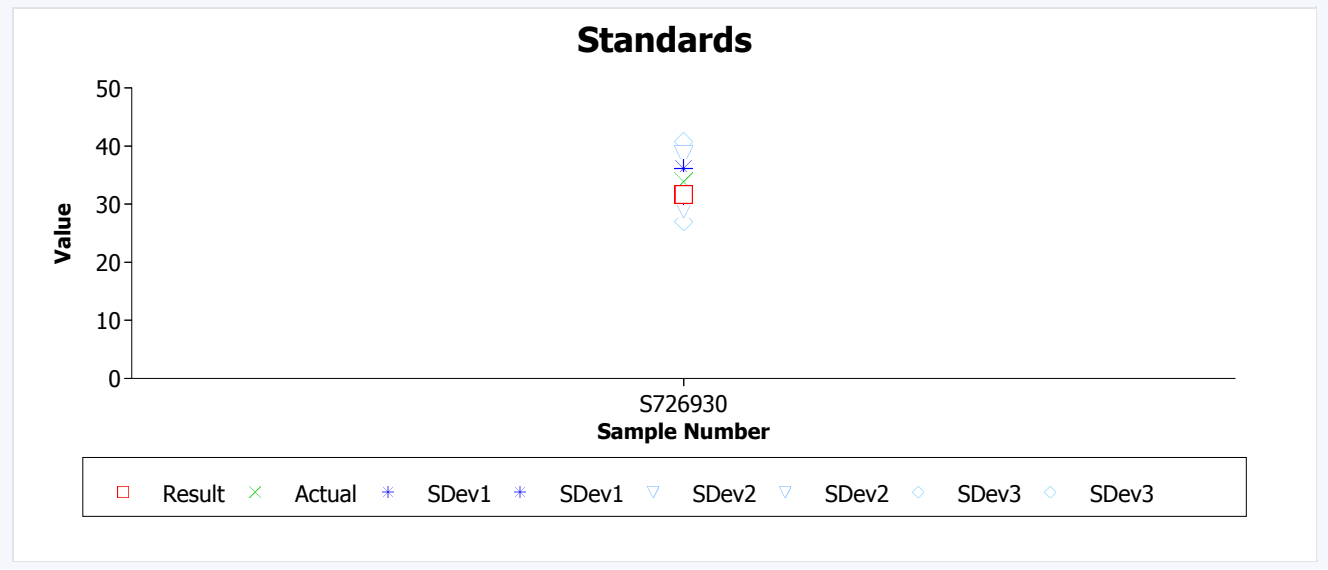
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CONTROL CHARTS

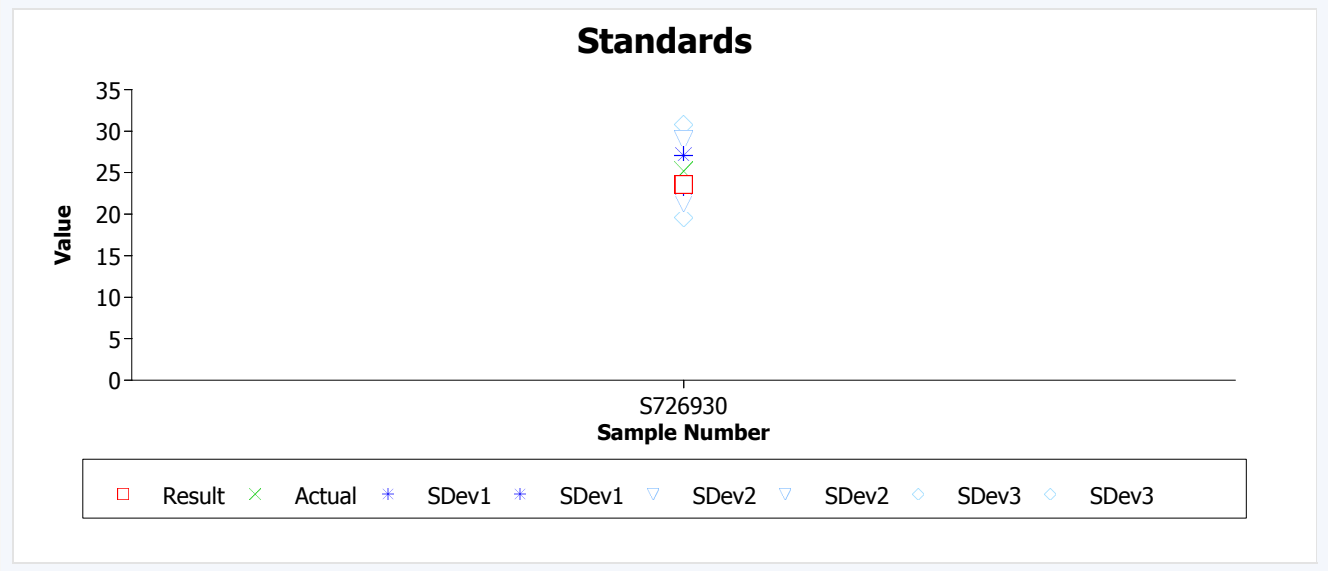
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	31.7000	2.29000000	3			



Pb	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	23.6000	1.87000000	3			



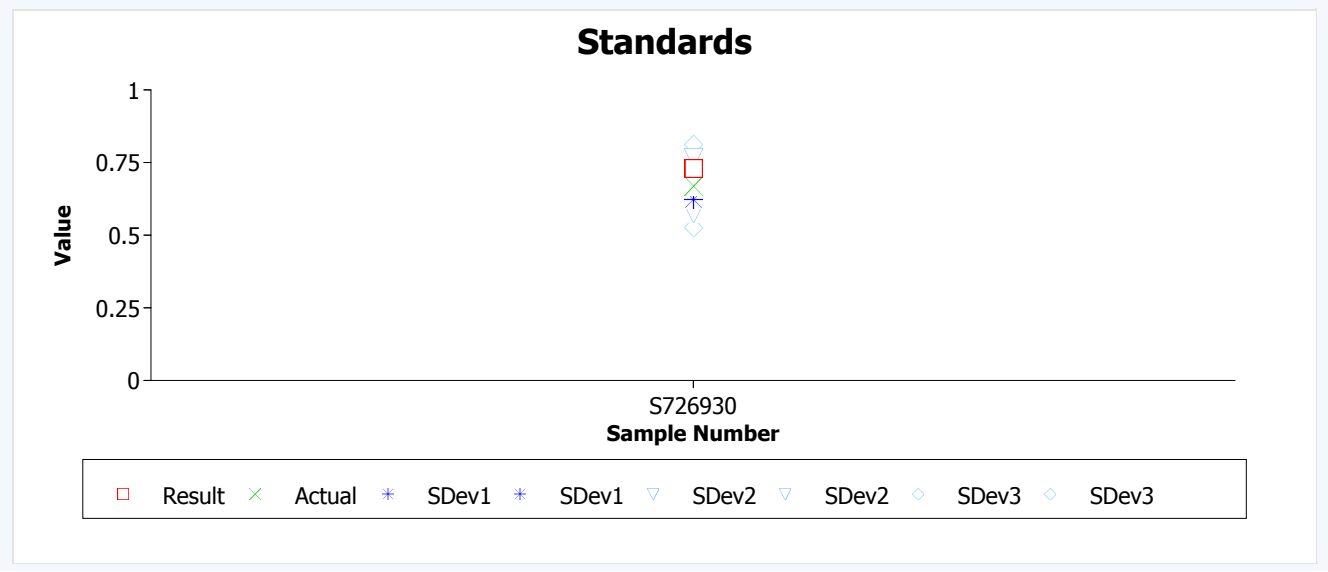
Oct 25, 2016

CONTROL CHARTS

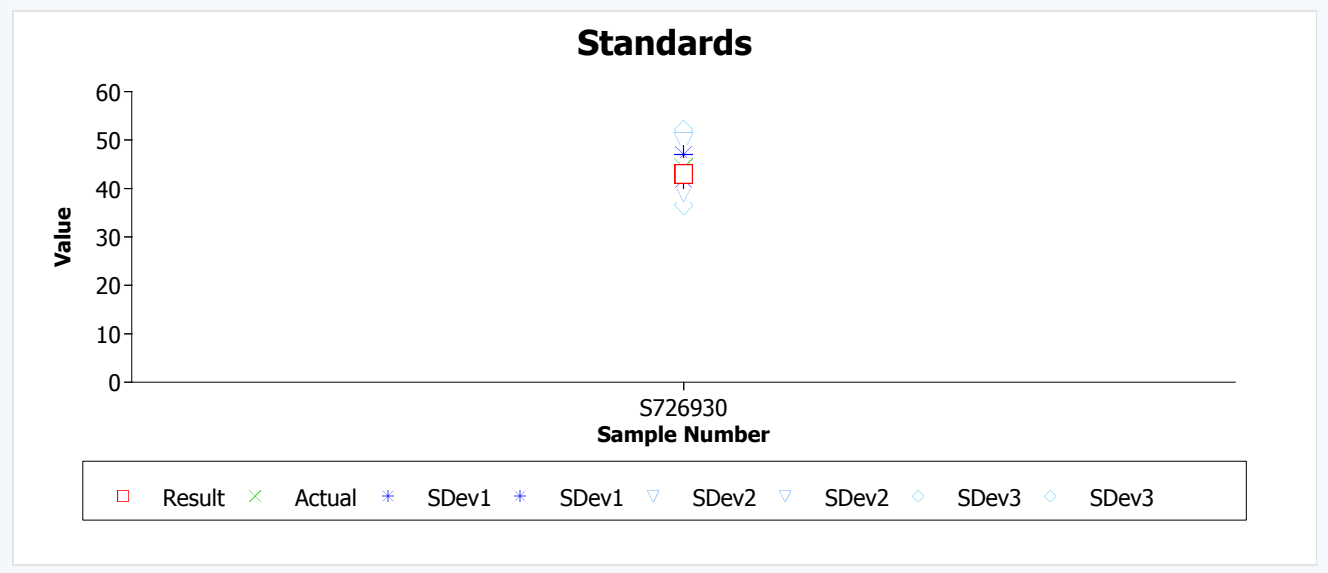
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.7300	0.04800000	3			



Zn	ppm	MEMS61										
S726930	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	43.0000	2.60000000	3			



OREAS905

Ag	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5900	0.09500000	3			

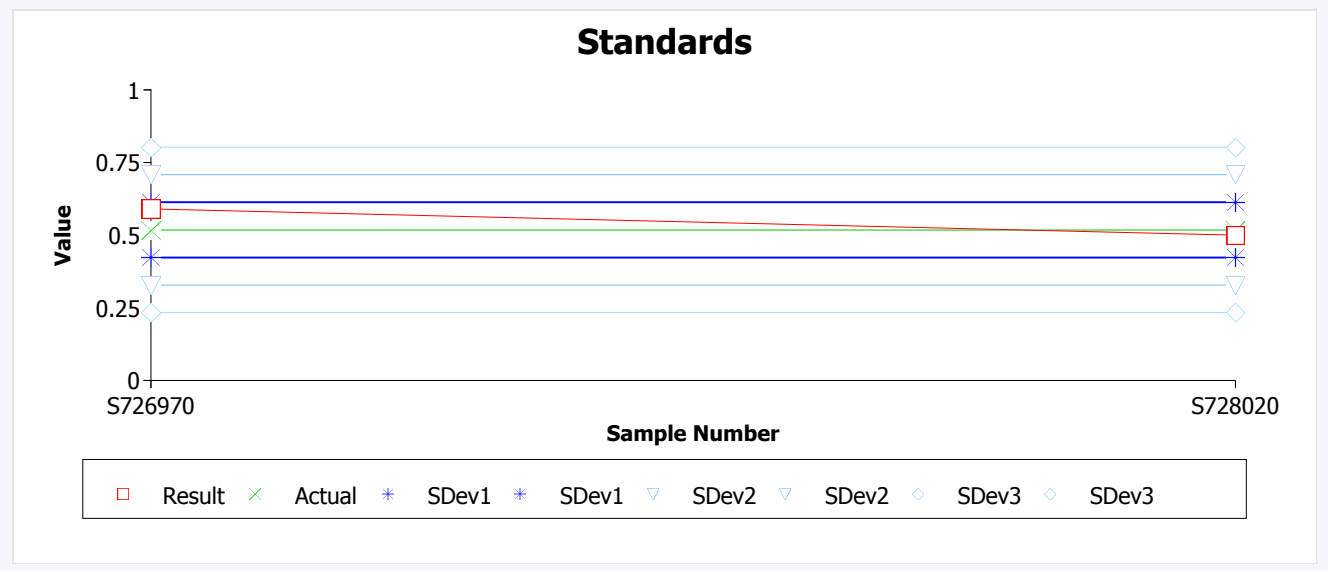
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CONTROL CHARTS

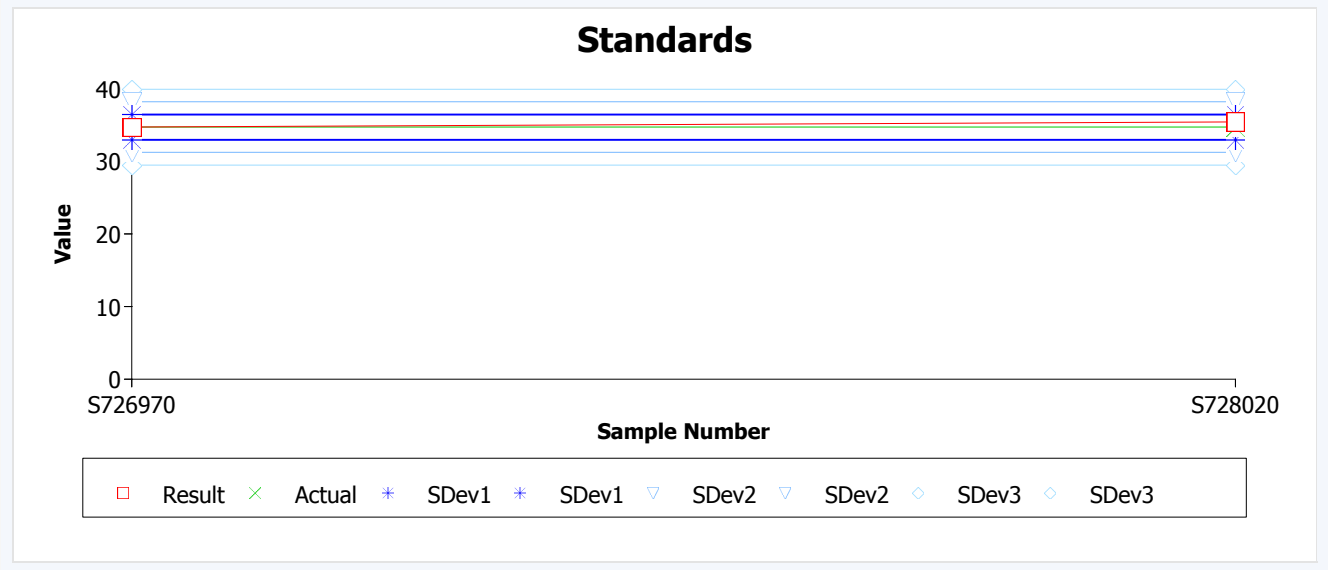
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Ag	ppm	MEMS61										
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5000	0.09500000	3			



As	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	34.7000	1.74000000	3			
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	35.4000	1.74000000	3			



Be	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	2.8000	0.32000000	3			

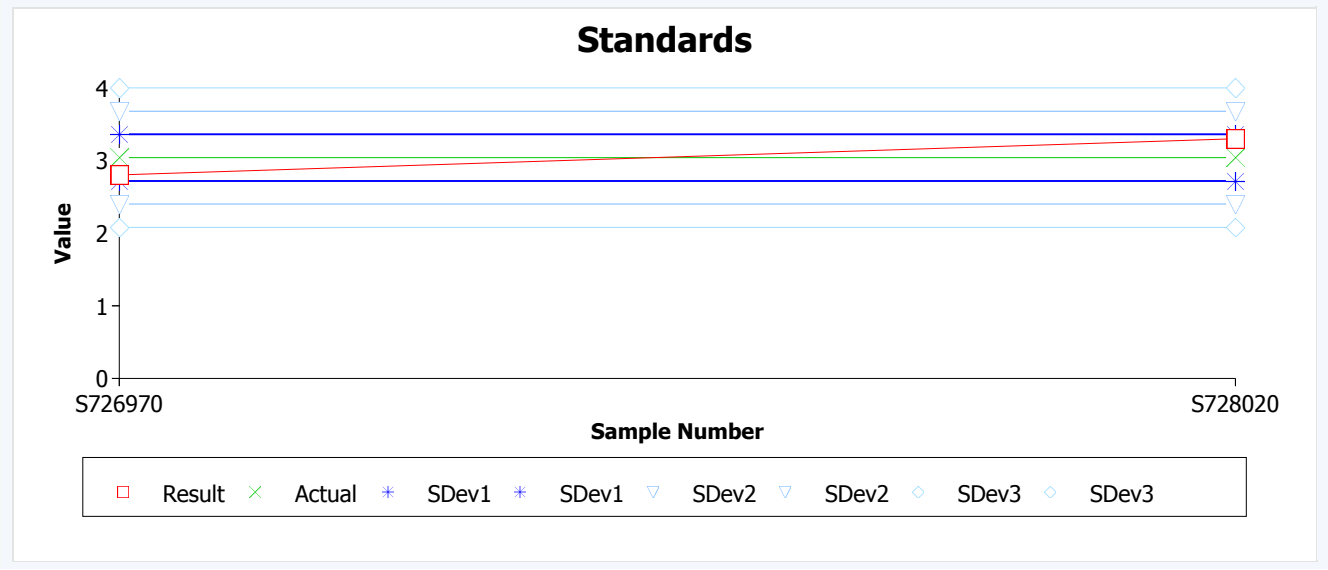
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CONTROL CHARTS

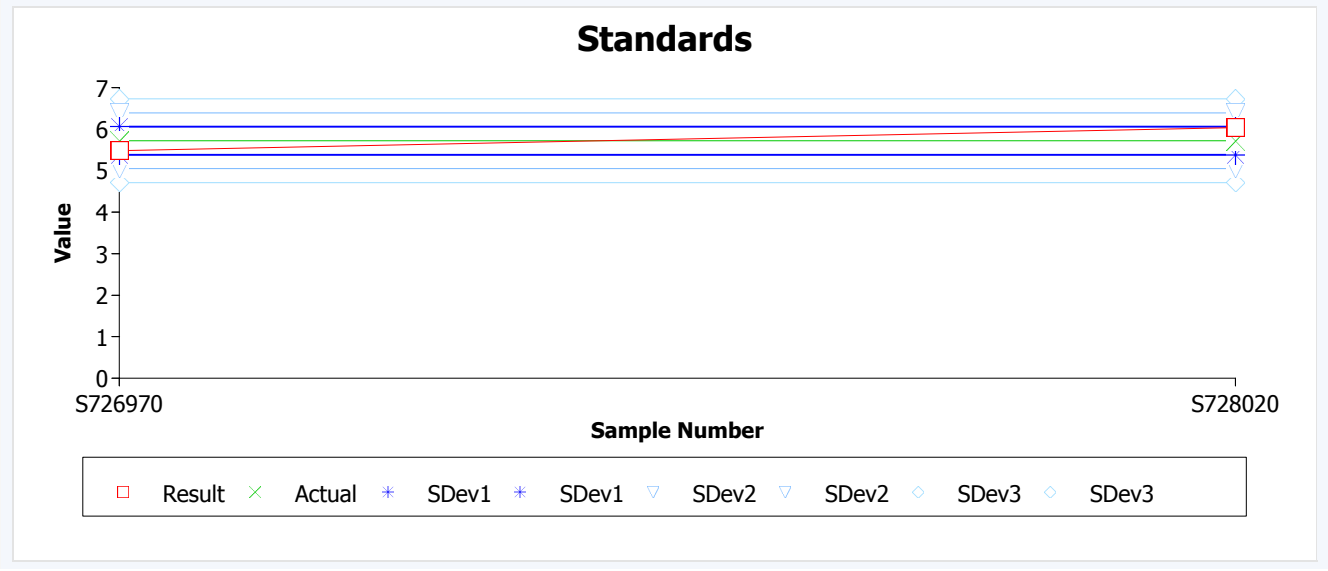
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Be	ppm	MEMS61										
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.3000	0.32000000	3			



Bi	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	5.4800	0.33700000	3			
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	6.0400	0.33700000	3			



Cu	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1435.0000	61.00000000	3			

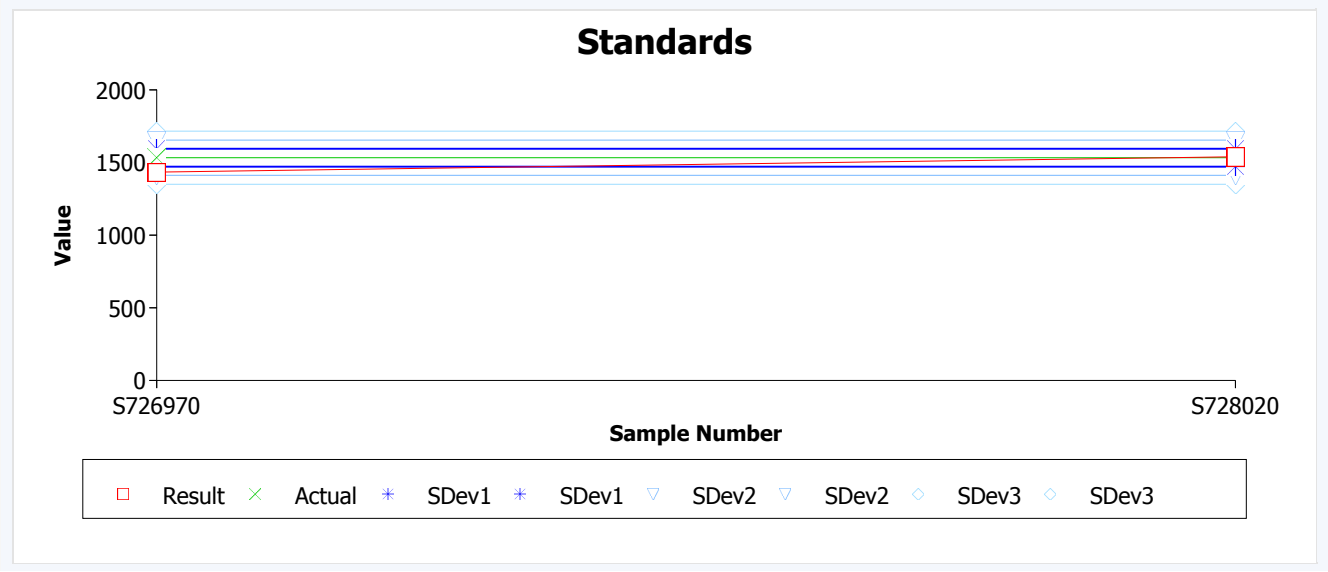
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CONTROL CHARTS

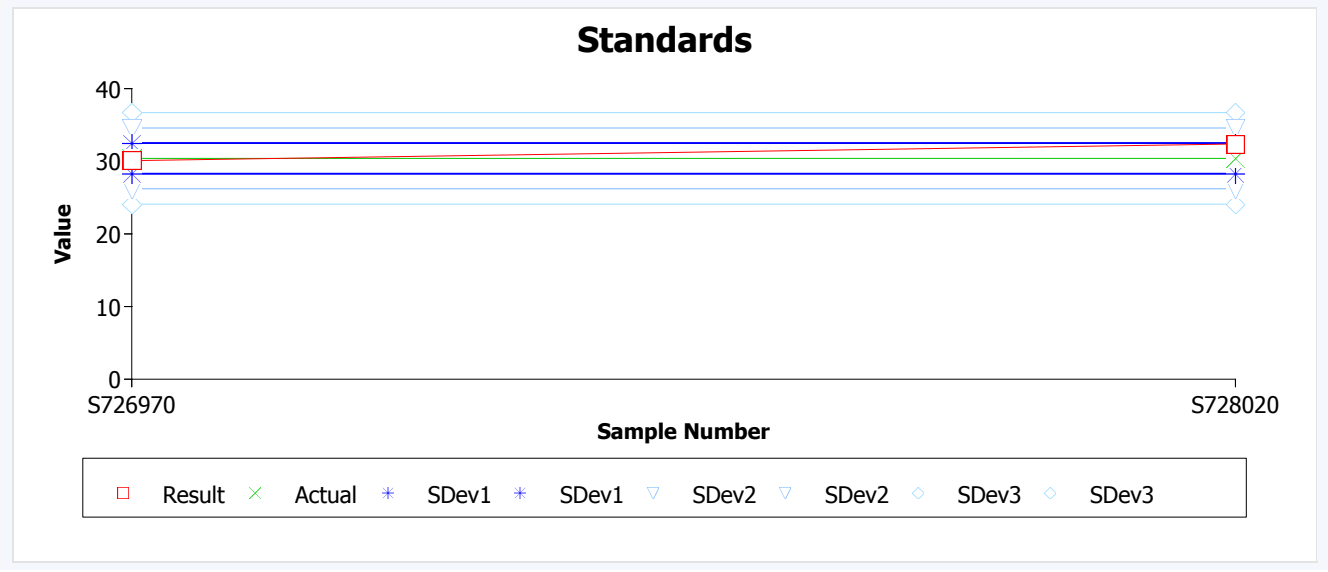
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Cu	ppm	MEMS61										
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1540.0000	61.00000000	3			



Pb	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	30.1000	2.10000000	3			
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	32.4000	2.10000000	3			



Sb	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0000	0.12800000	3			

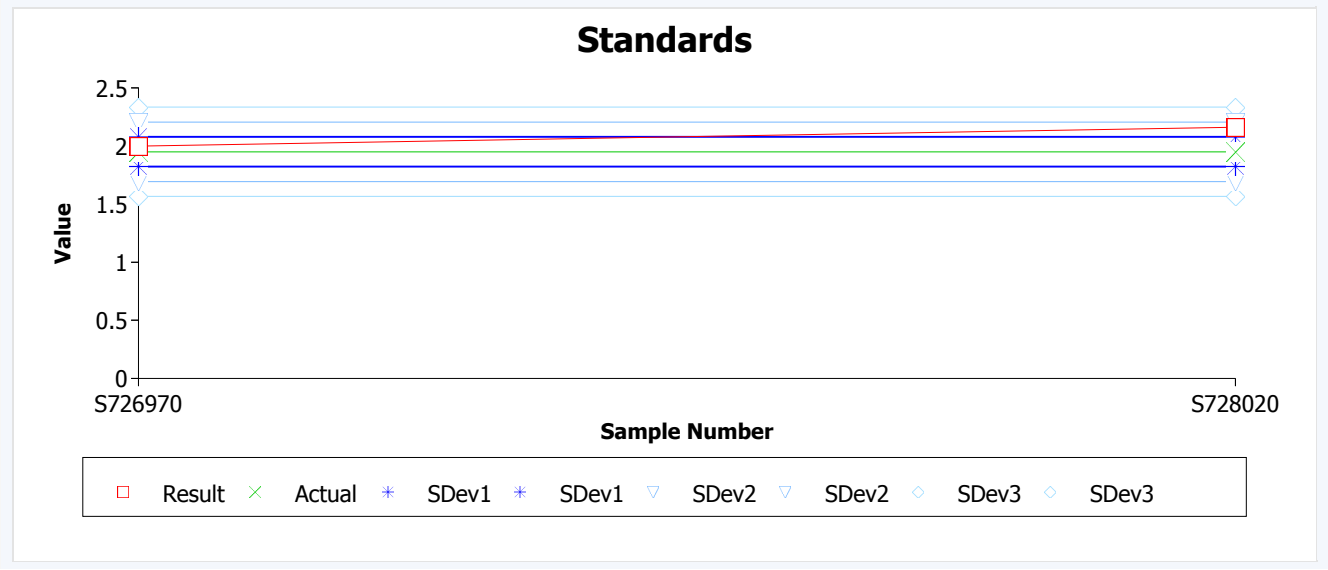
Oct 25, 2016

CONTROL CHARTS

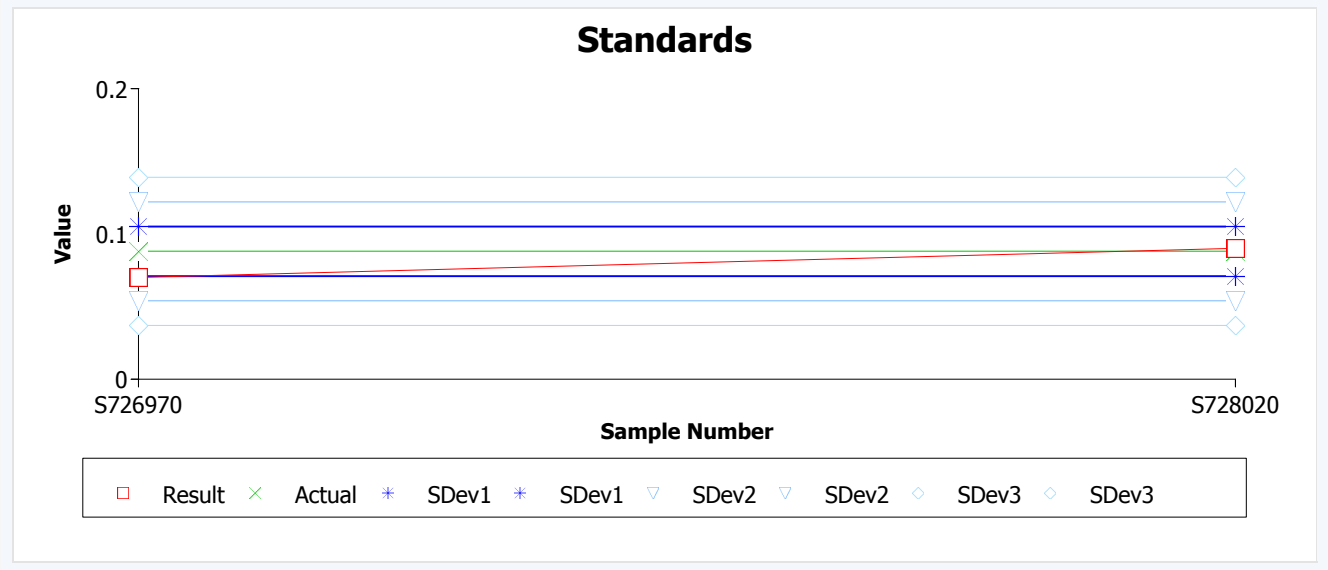
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Sb	ppm	MEMS61										
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.1600	0.12800000	3			



Te	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0700	0.01700000	3			
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0900	0.01700000	3			



Zn	ppm	MEMS61										
S726970	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	136.0000	7.00000000	3			

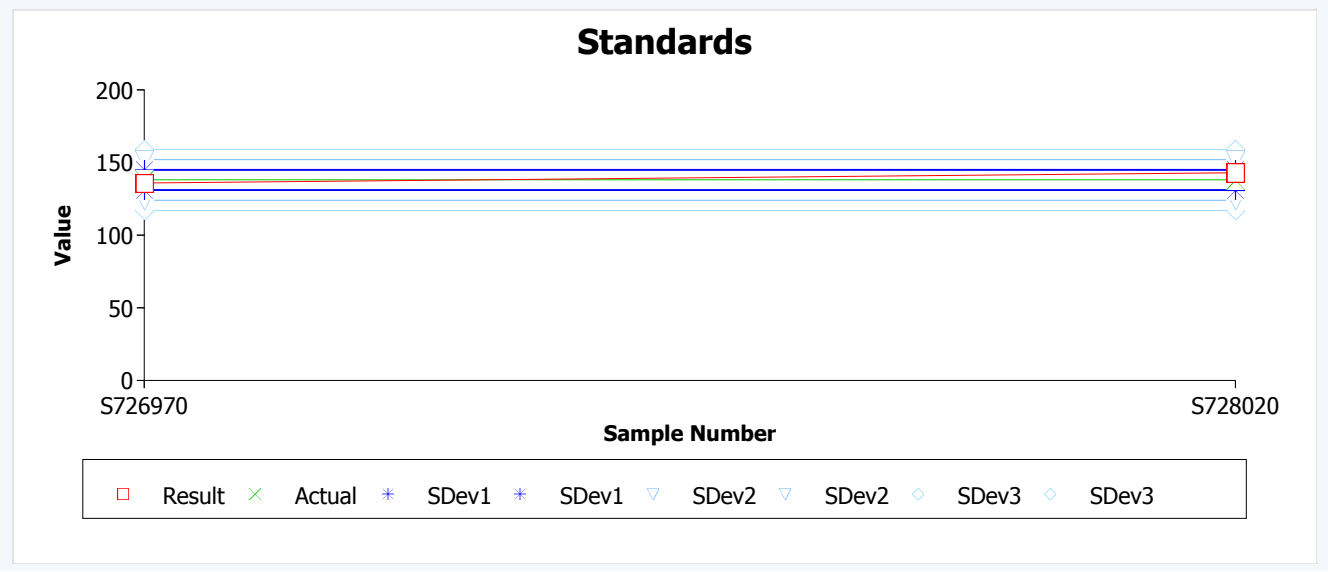
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Zn	ppm	MEMS61										
S728020	2016-Qiqavik Fiel	VO16133514	2016-09-10	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	143.0000	7.00000000	3			



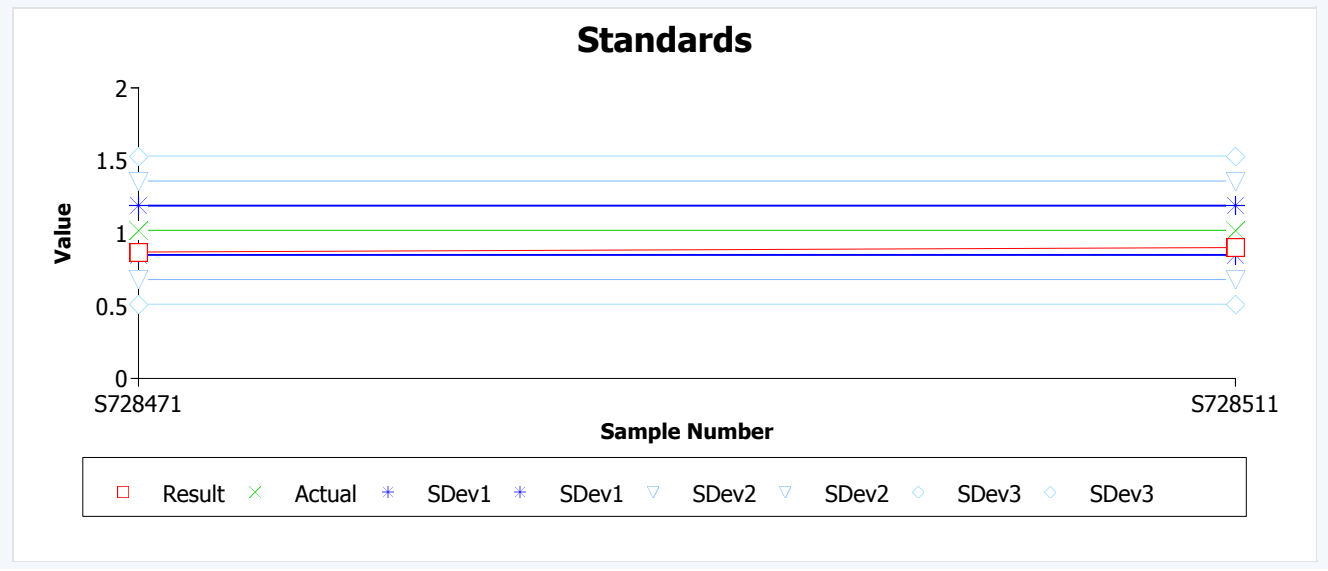
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CONTROL CHARTS

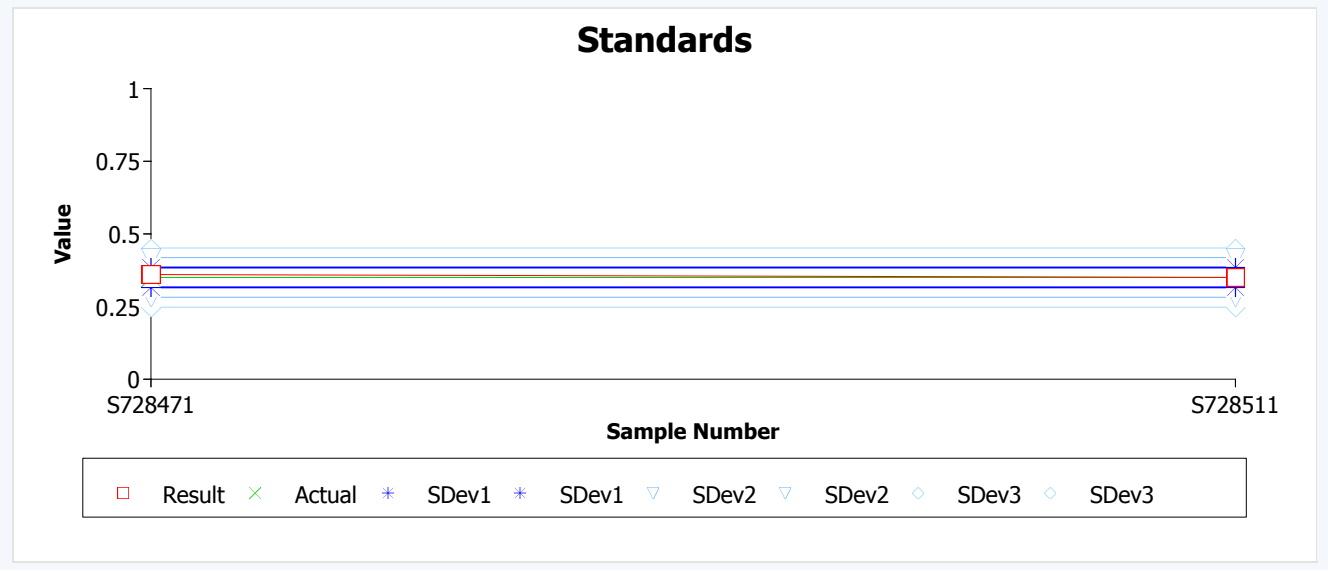
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S728471		2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.8700	0.17000000	3			
S728511		2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.9000	0.17000000	3			



Bi	ppm	MEMS61										
S728471		2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3600	0.03400000	3			
S728511		2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3500	0.03400000	3			



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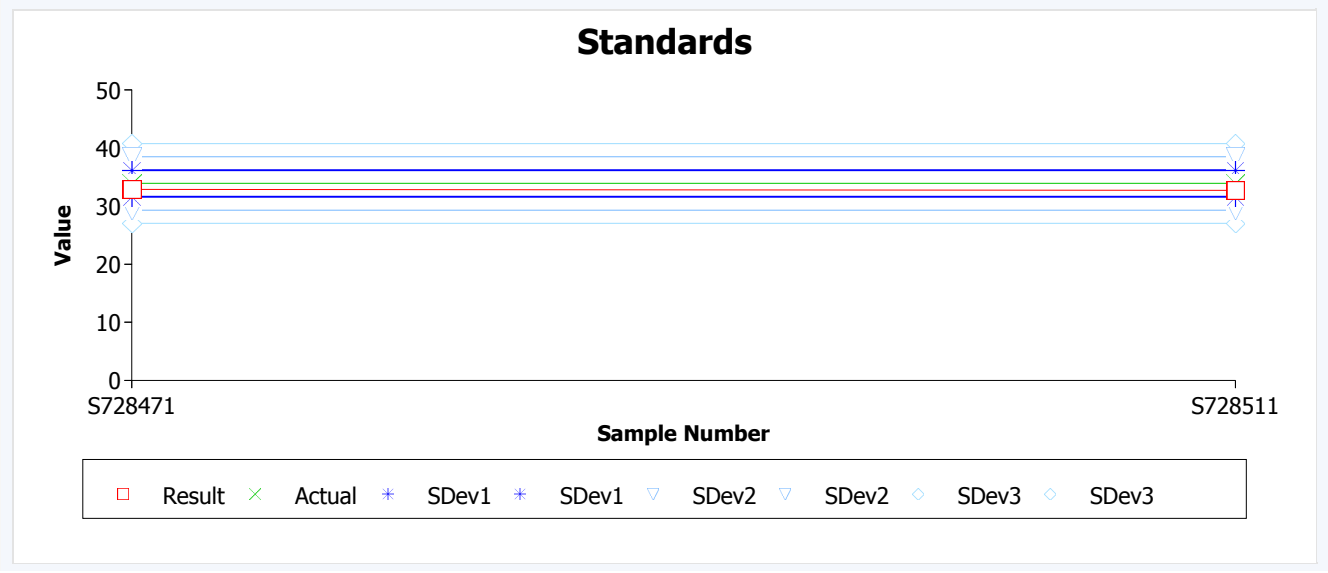
CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

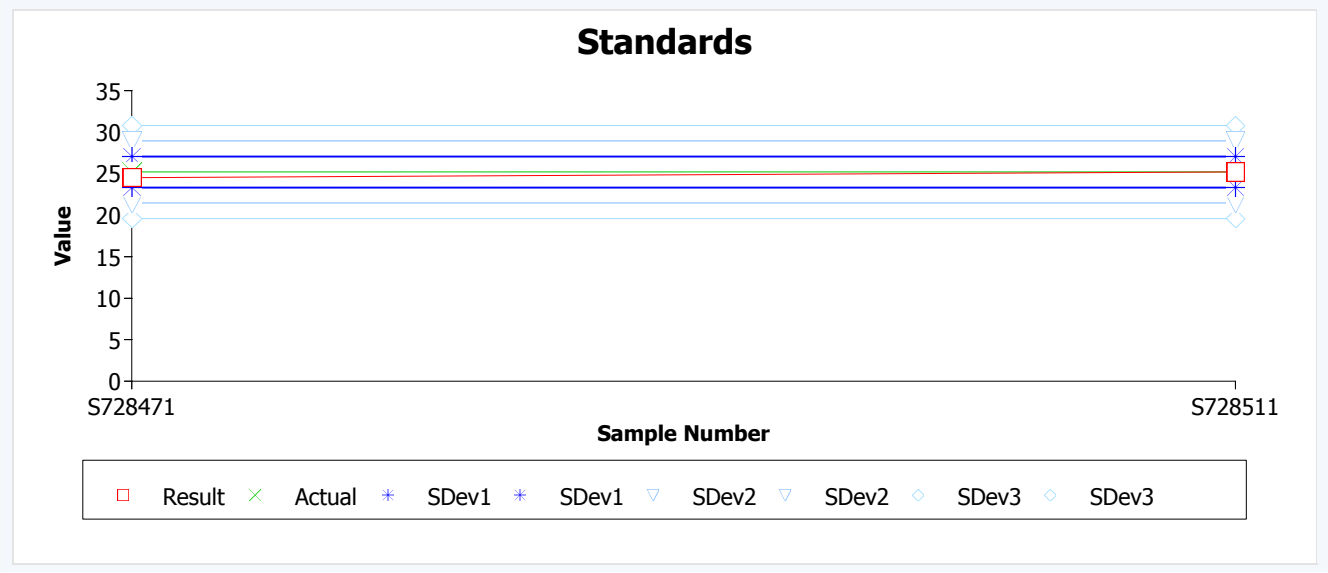
Cu ppm MEMS61

S728471	2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	32.9000	2.29000000	3
S728511	2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	32.7000	2.29000000	3



Pb ppm MEMS61

S728471	2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	24.5000	1.87000000	3
S728511	2016-Qiqavik Fiel VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	25.2000	1.87000000	3



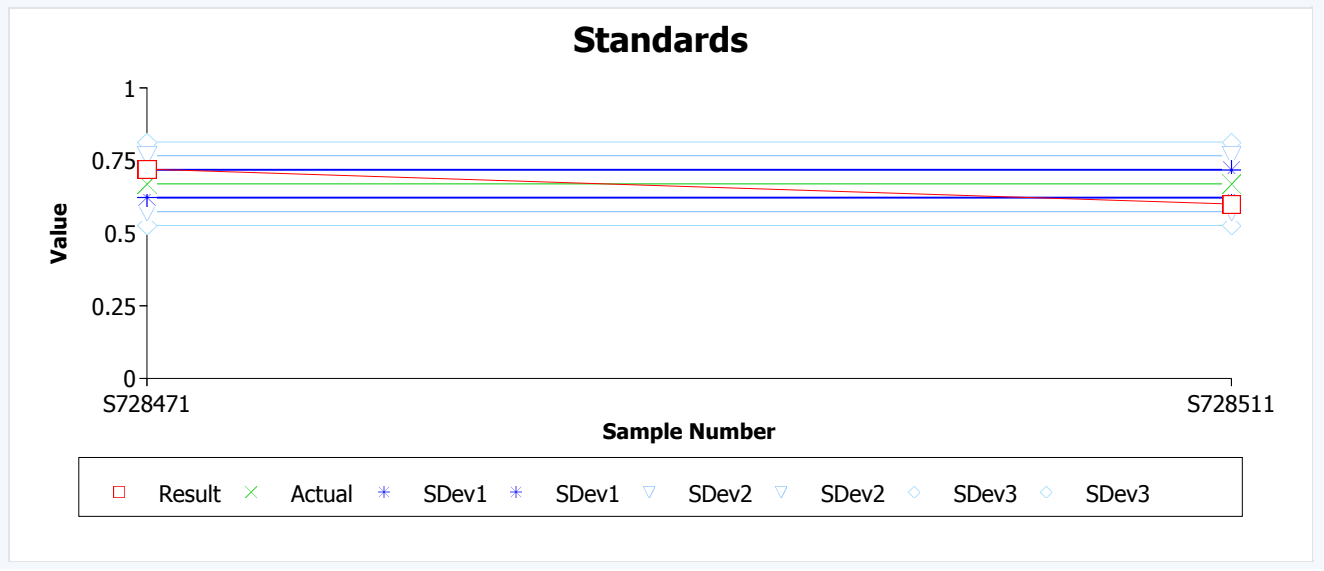
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CONTROL CHARTS

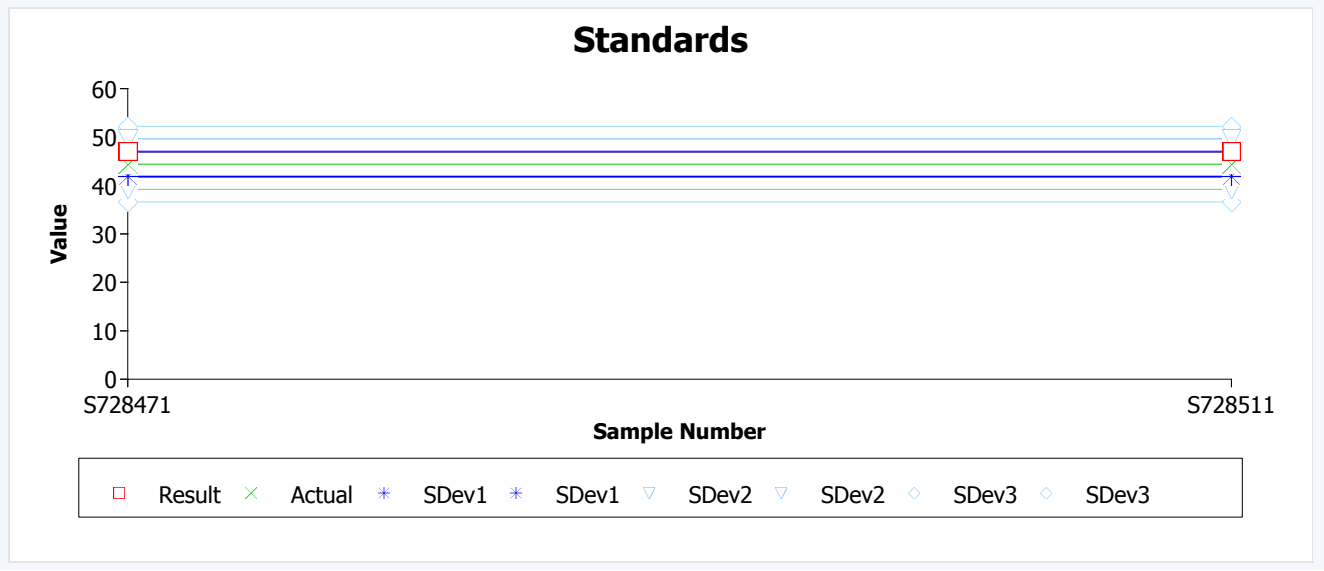
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S728471	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.7200	0.04800000	3			
S728511	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.6000	0.04800000	3			



Zn	ppm	MEMS61										
S728471	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	47.0000	2.60000000	3			
S728511	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	47.0000	2.60000000	3			



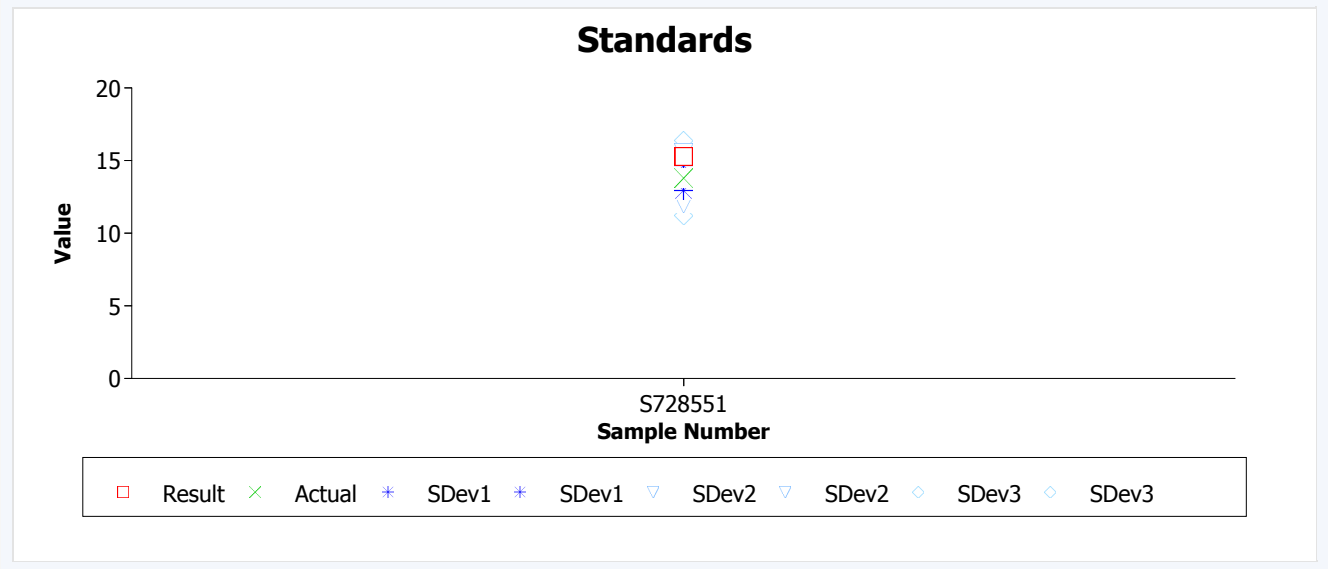
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CONTROL CHARTS

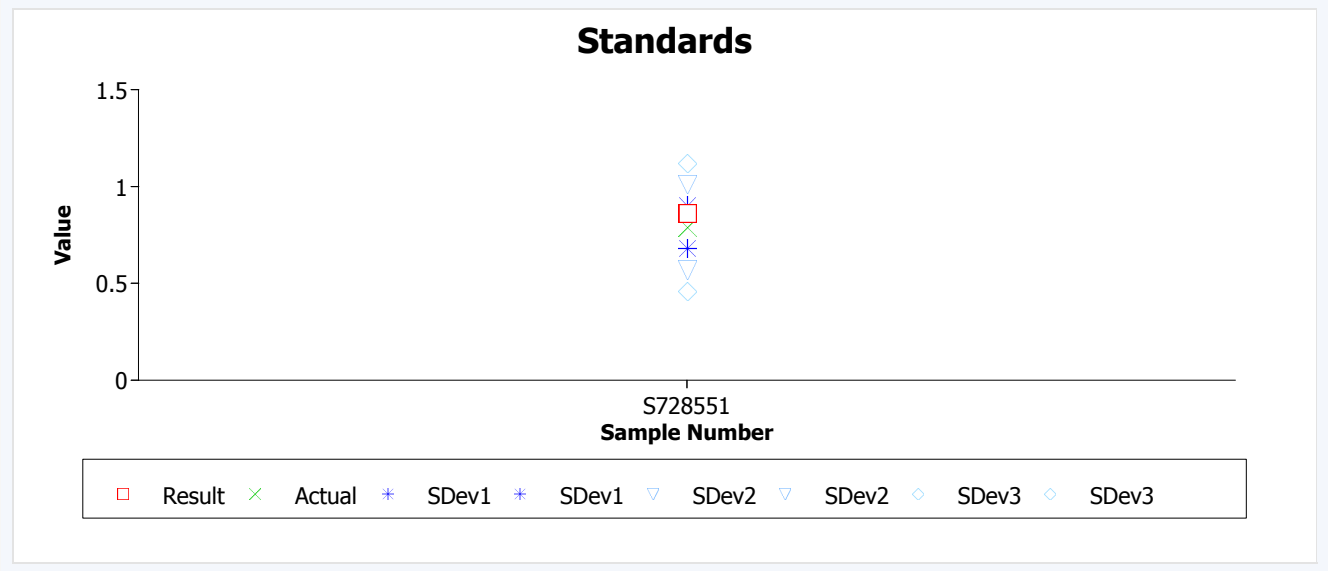
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S728551		2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	15.3000	0.86000000	3		



Be	ppm	MEMS61										
S728551		2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.8600	0.11000000	3		



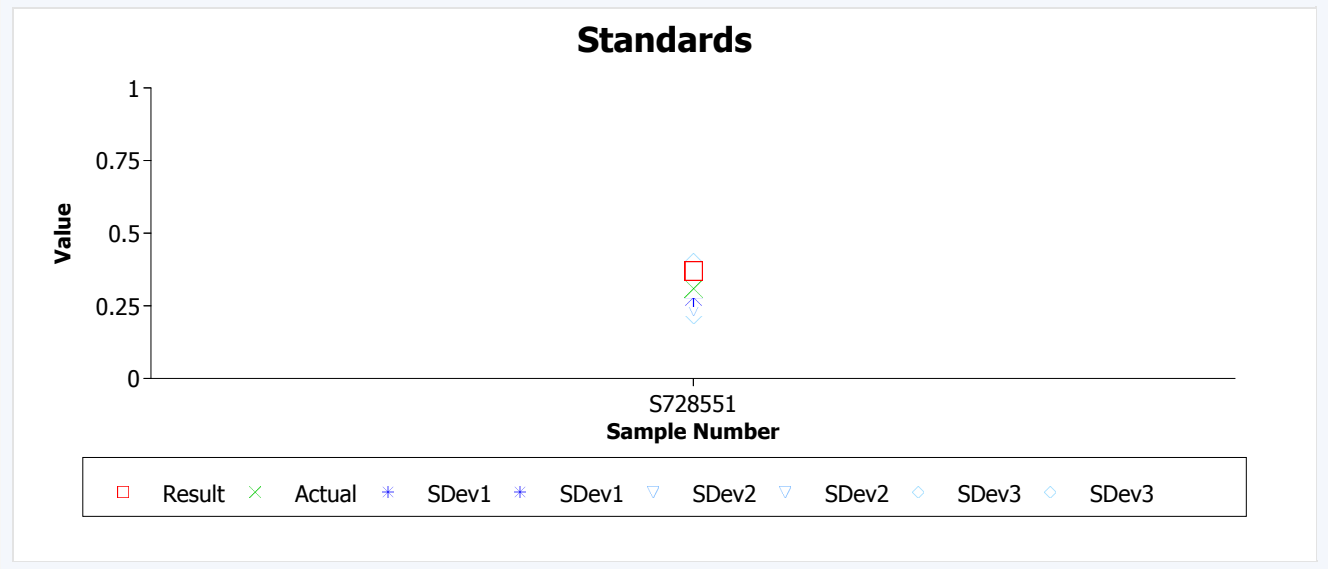
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CONTROL CHARTS

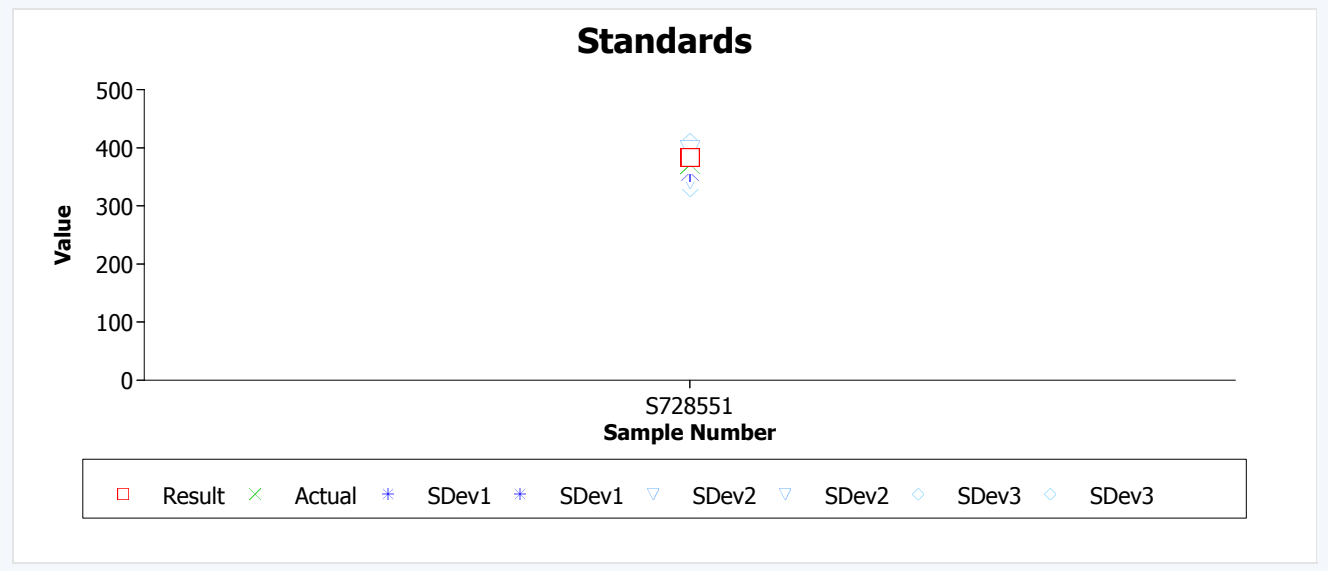
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S728551		2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3700	0.03000000	3		



Cu	ppm	MEMS61										
S728551		2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	384.0000	12.80000000	3		



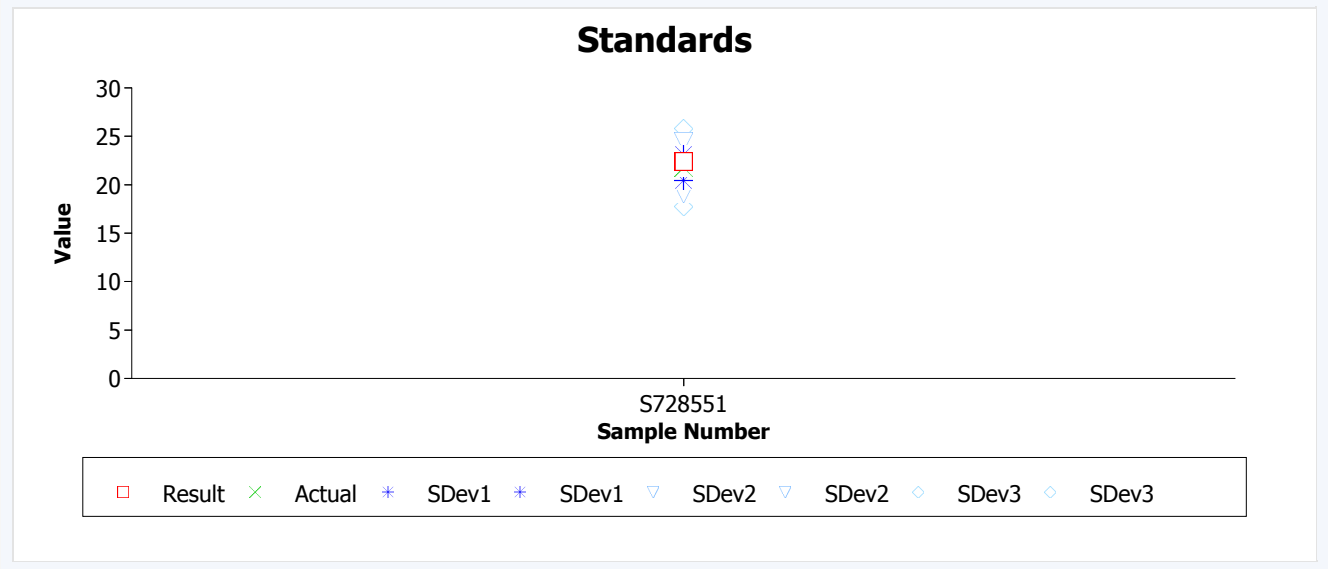
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CONTROL CHARTS

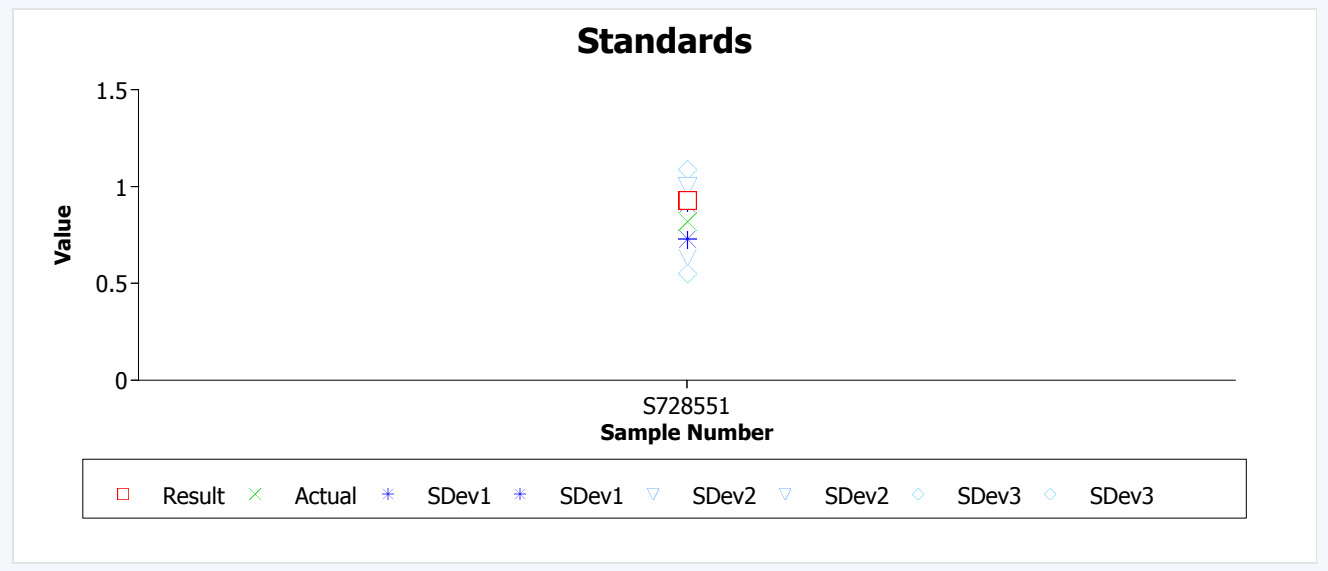
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S728551	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	22.4000	1.35000000	3			



Sb	ppm	MEMS61										
S728551	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9300	0.09000000	3			



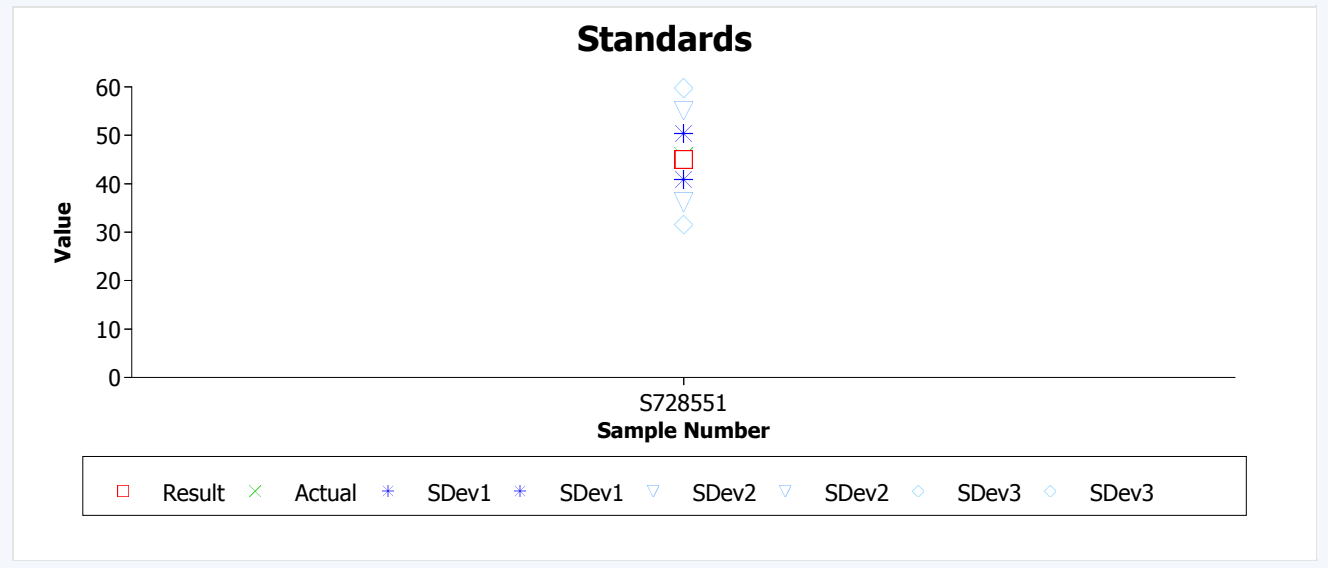
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Zn	ppm	MEMS61										
S728551	2016-Qiqavik Fiel	VO16133518	2016-09-09	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	45.0000	4.70000000	3			



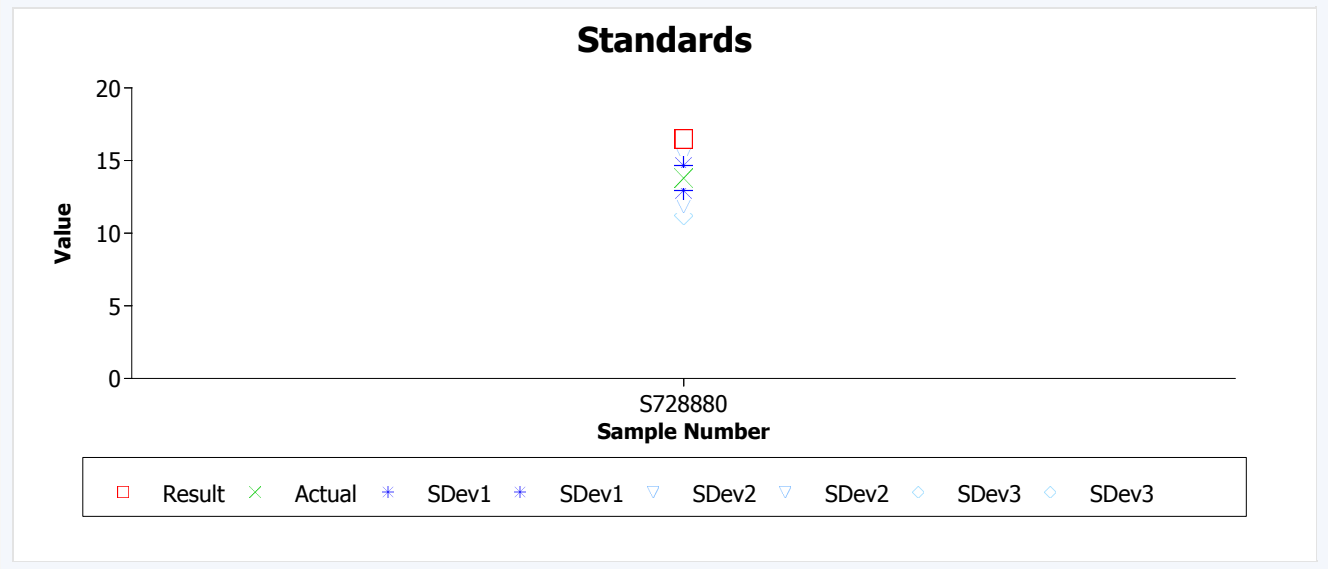
Oct 25, 2016

CONTROL CHARTS

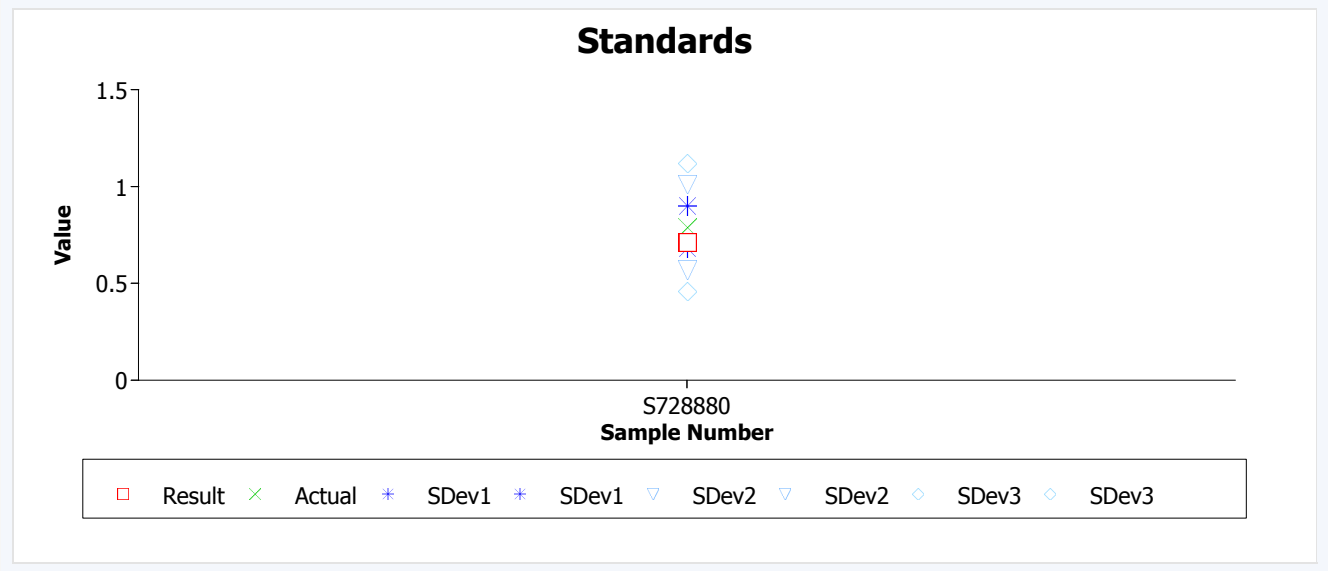
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S728880	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	16.5000	0.86000000	3			



Be	ppm	MEMS61										
S728880	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7100	0.11000000	3			



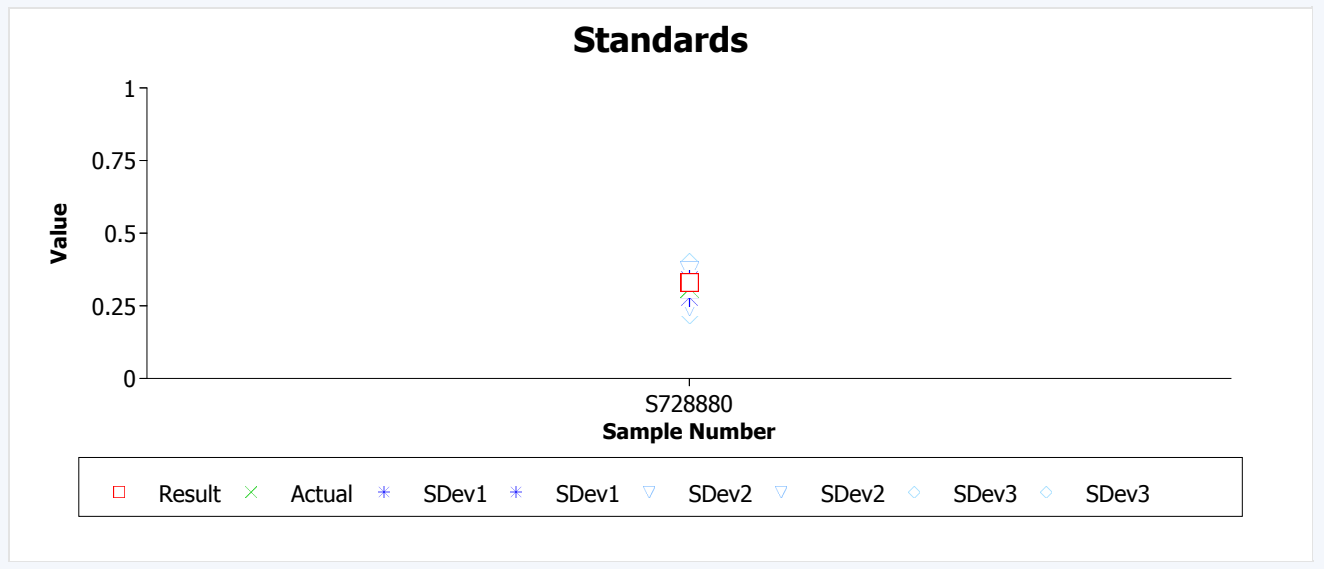
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CONTROL CHARTS

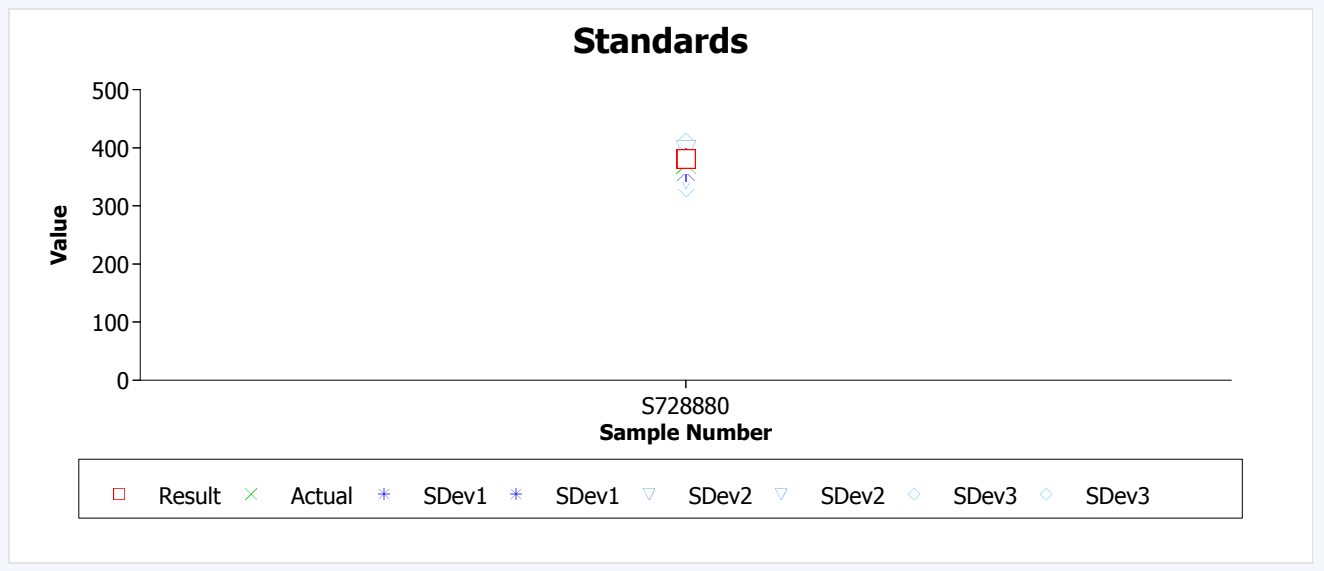
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S728880		2016-Qiqavik Fiel VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3300	0.03000000	3			



Cu	ppm	MEMS61										
S728880		2016-Qiqavik Fiel VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	381.0000	12.80000000	3			



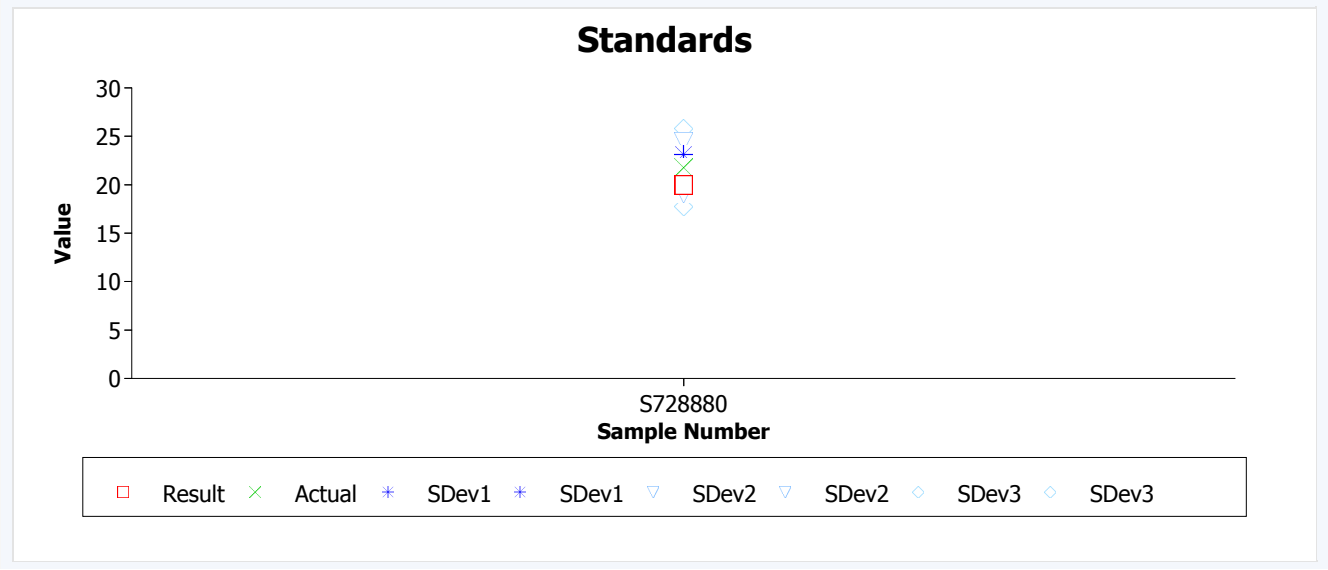
Oct 25, 2016

CONTROL CHARTS

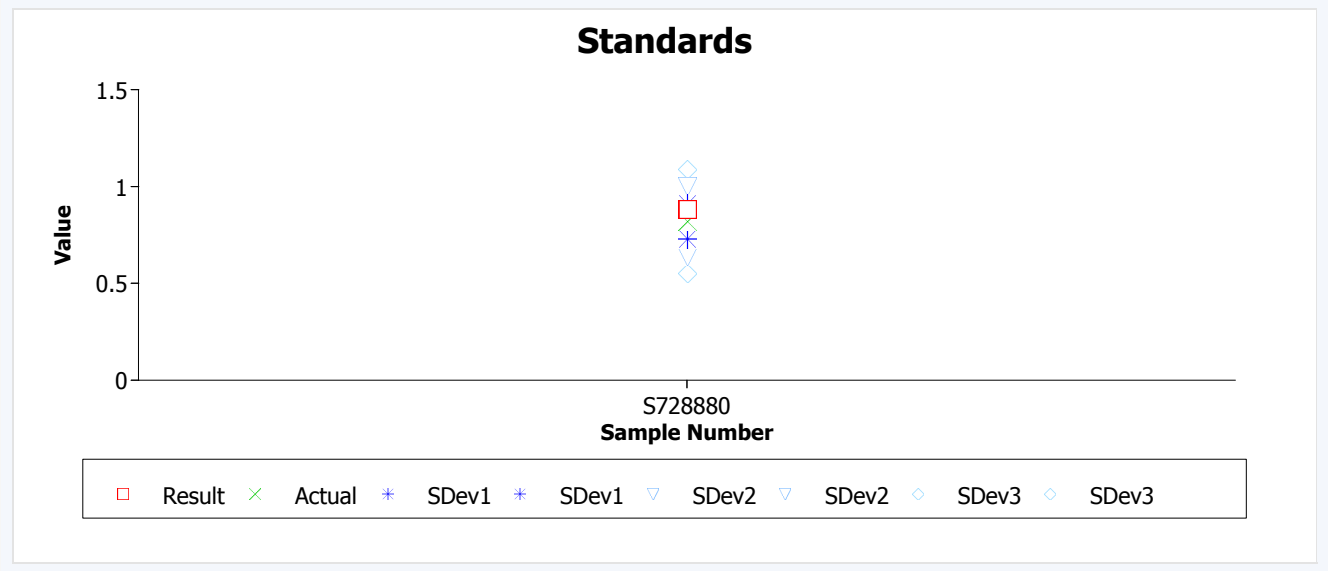
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S728880	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.0000	1.35000000	3			



Sb	ppm	MEMS61										
S728880	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8800	0.09000000	3			



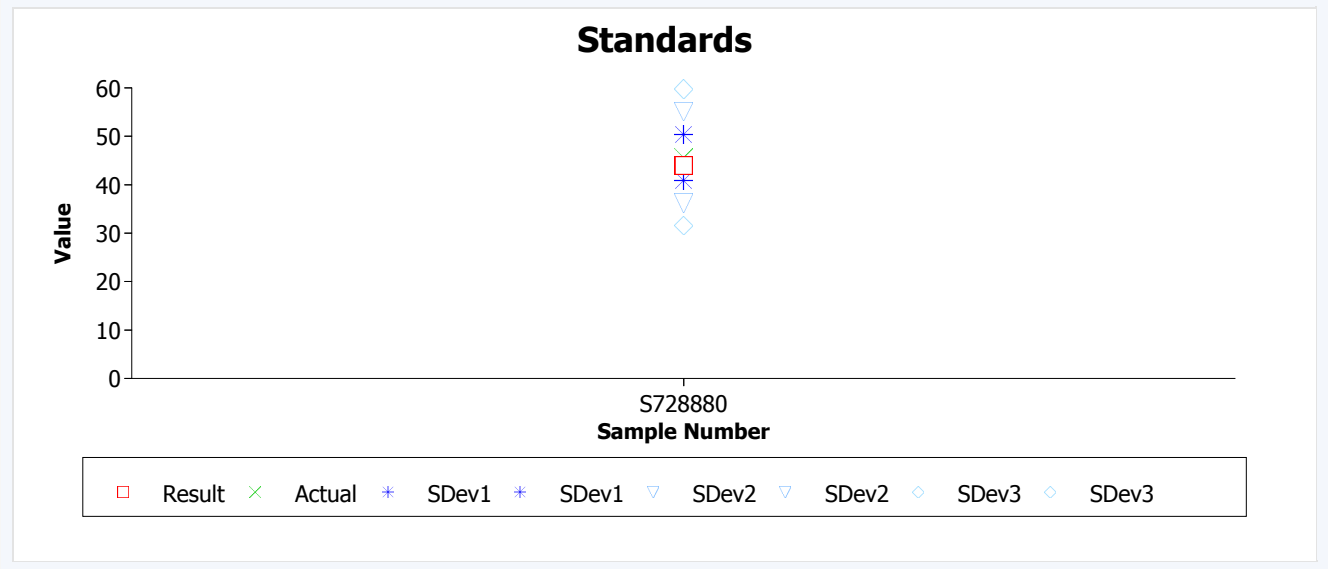
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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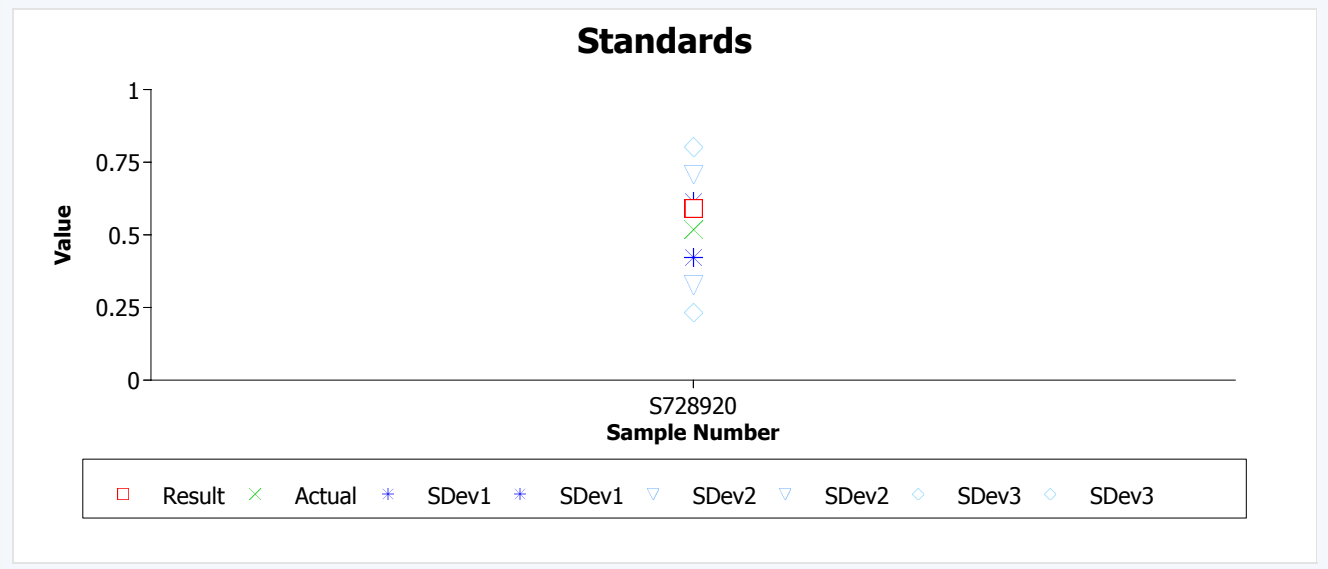
OREAS45D

Zn	ppm	MEMS61										
S728880	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	44.0000	4.70000000	3			



OREAS905

Ag	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5900	0.09500000	3			



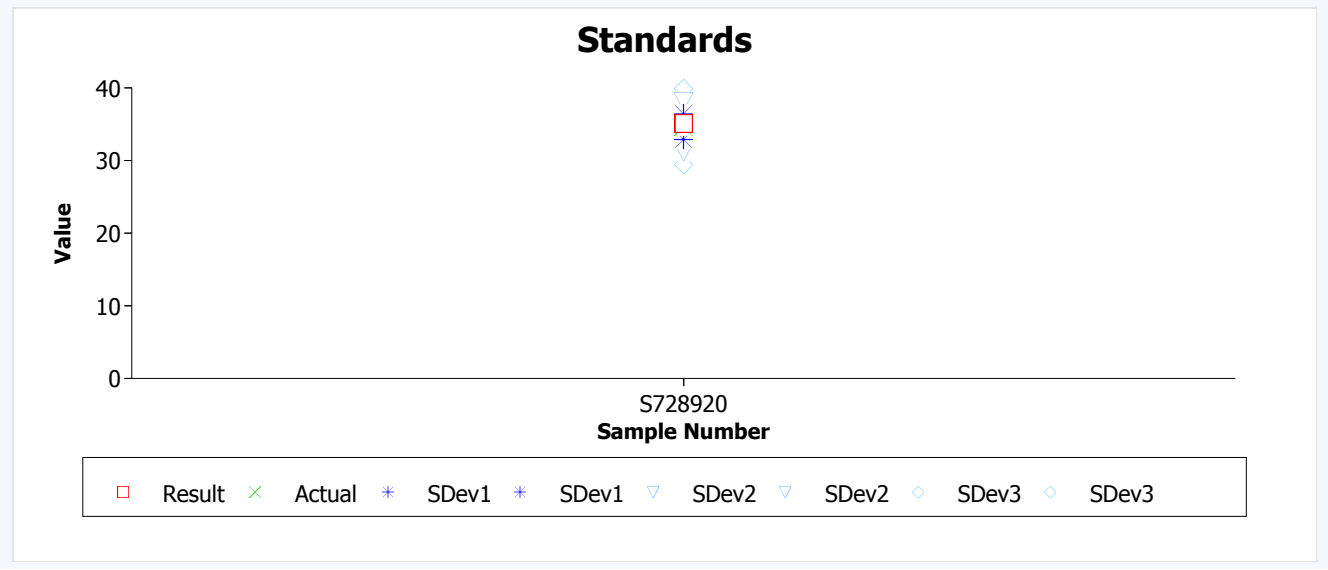
Oct 25, 2016

CONTROL CHARTS

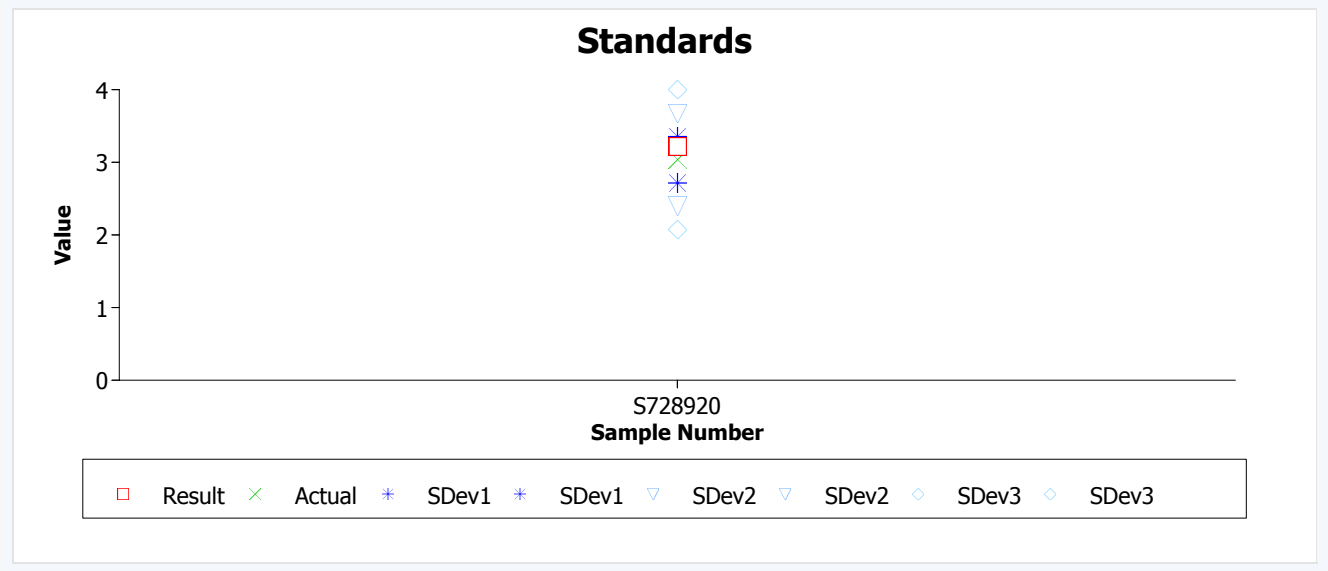
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

As	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	35.1000	1.74000000	3			



Be	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.2200	0.32000000	3			



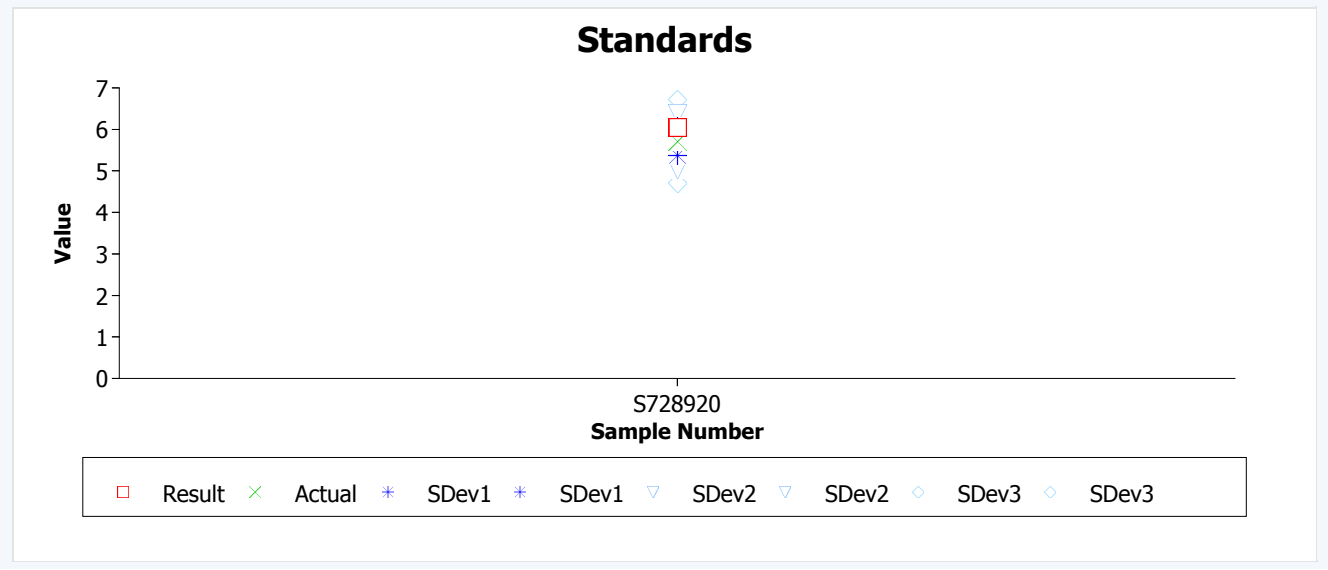
Oct 25, 2016

CONTROL CHARTS

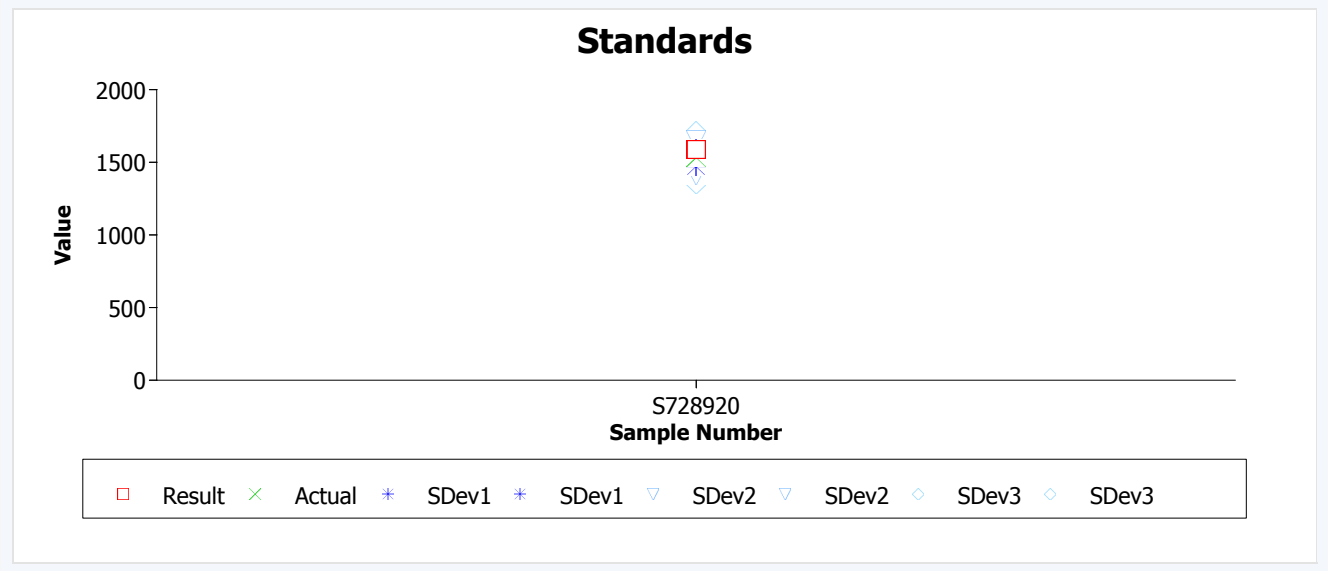
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Bi	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:		5.7200	6.0500	0.33700000	3		



Cu	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1590.0000	61.00000000	3			



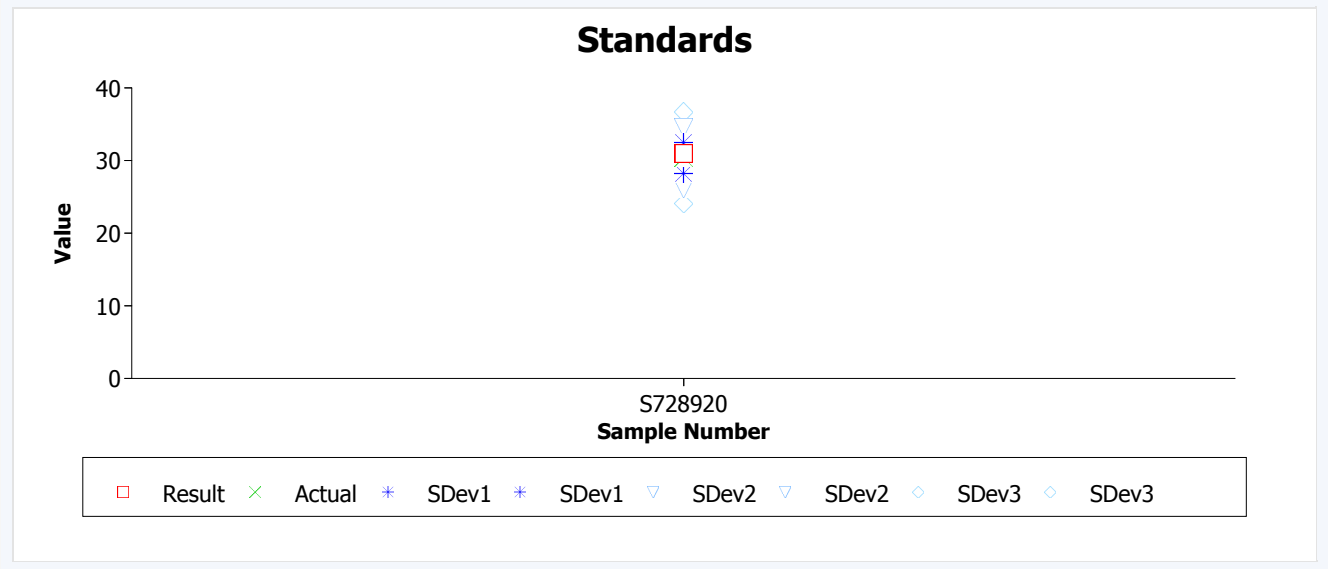
Oct 25, 2016

CONTROL CHARTS

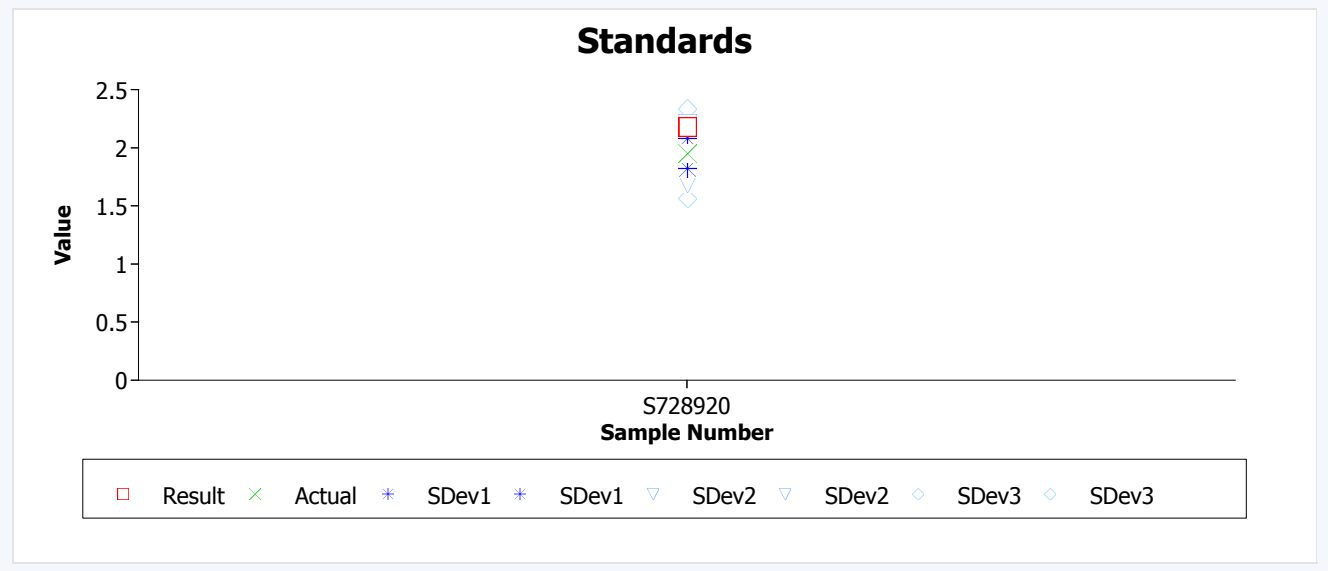
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Pb	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.0000	2.10000000	3			



Sb	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.1800	0.12800000	3			



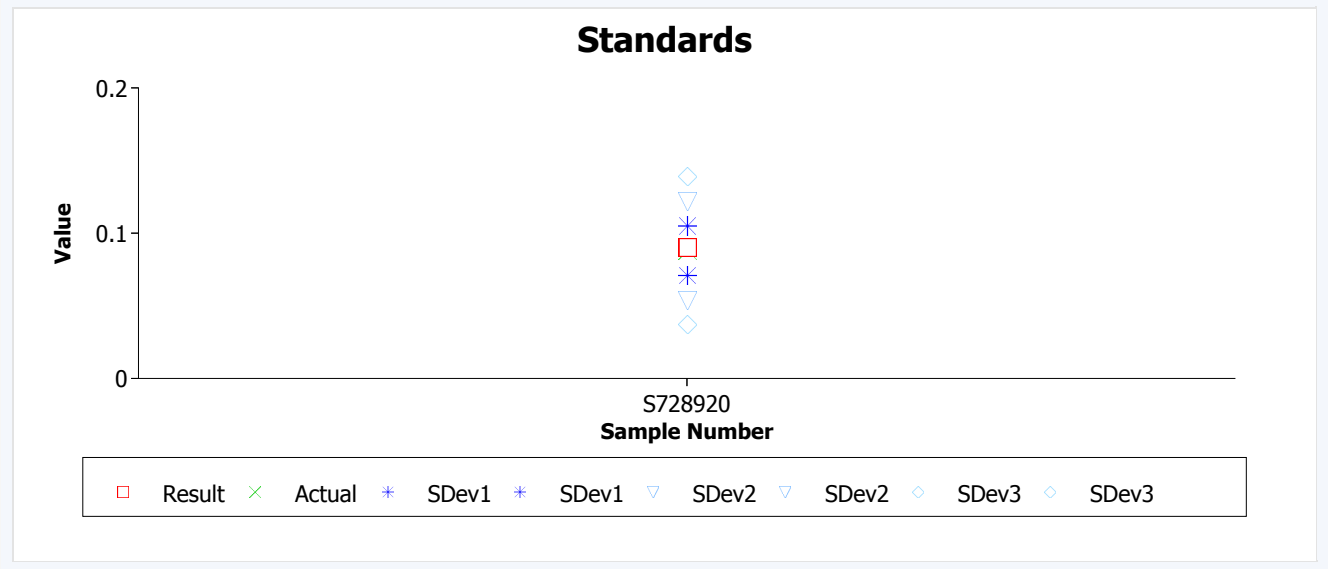
Oct 25, 2016

CONTROL CHARTS

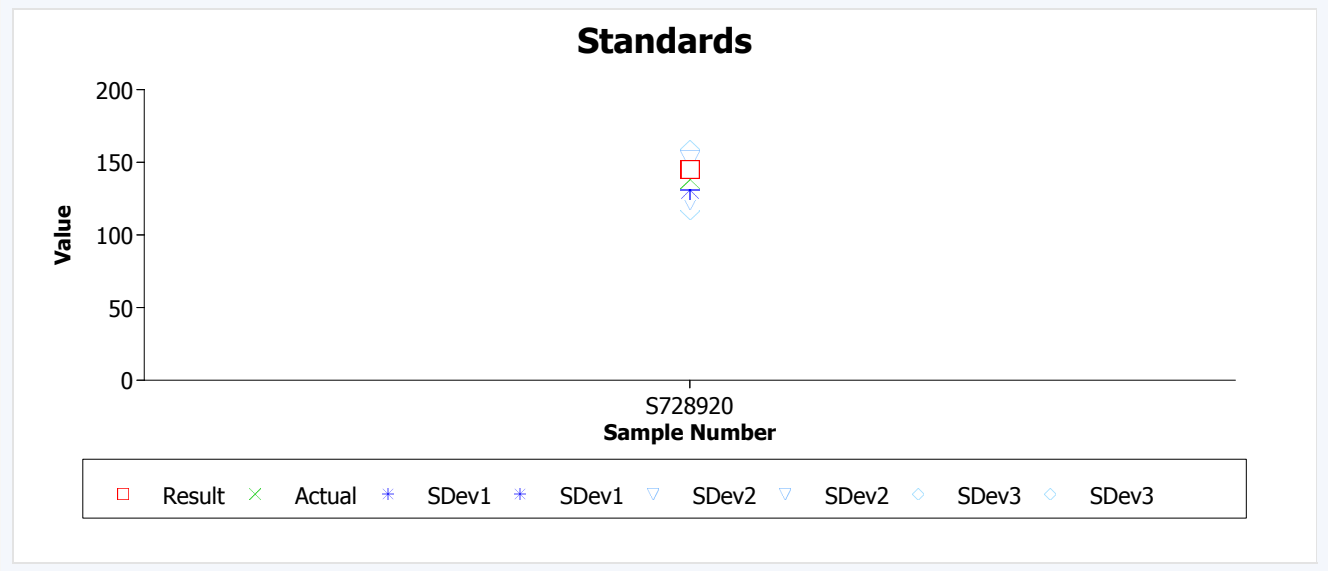
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Te	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0900	0.01700000	3			



Zn	ppm	MEMS61										
S728920	2016-Qiqavik Fiel	VO16133520	2016-09-08	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	145.0000	7.00000000	3			



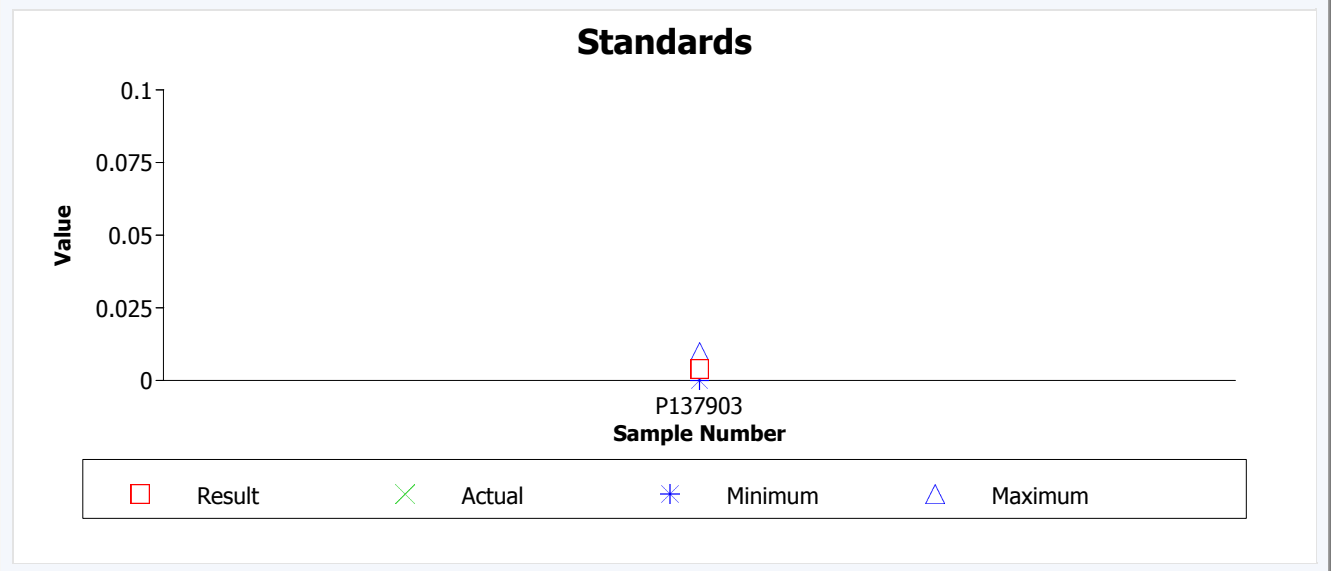
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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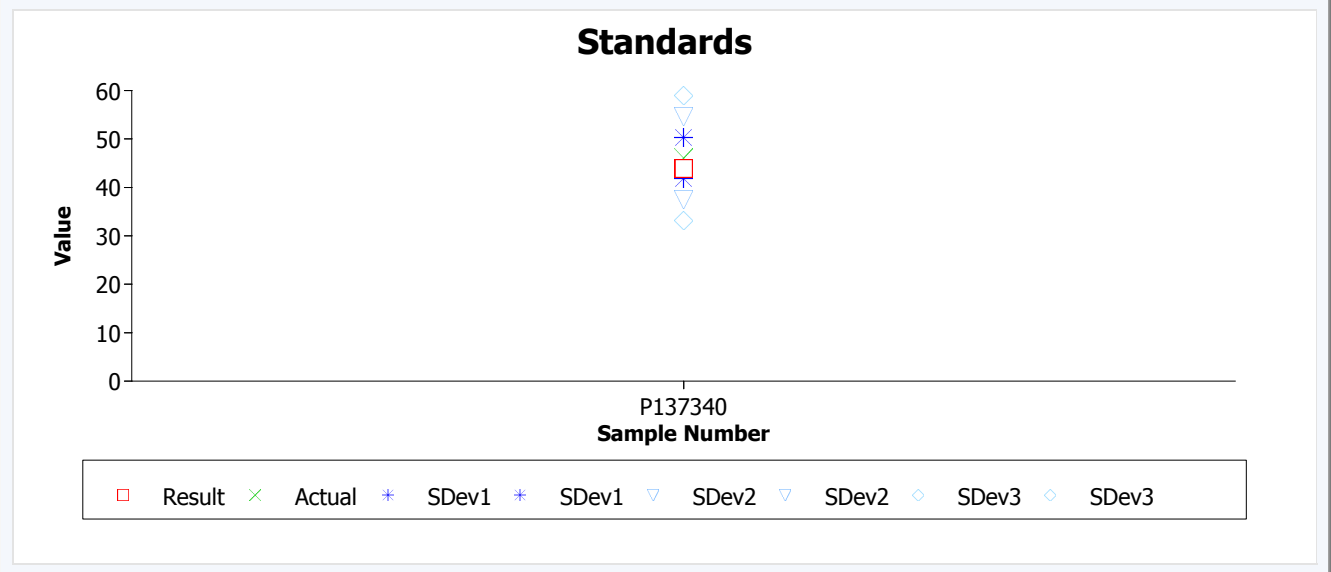
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Au	ppm	ICP22										
P137903	2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0040			0.0000	0.0100



OREAS624

Ag	ppm	MEICP61a										
P137340	2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	44.0000	4.29000000	3			



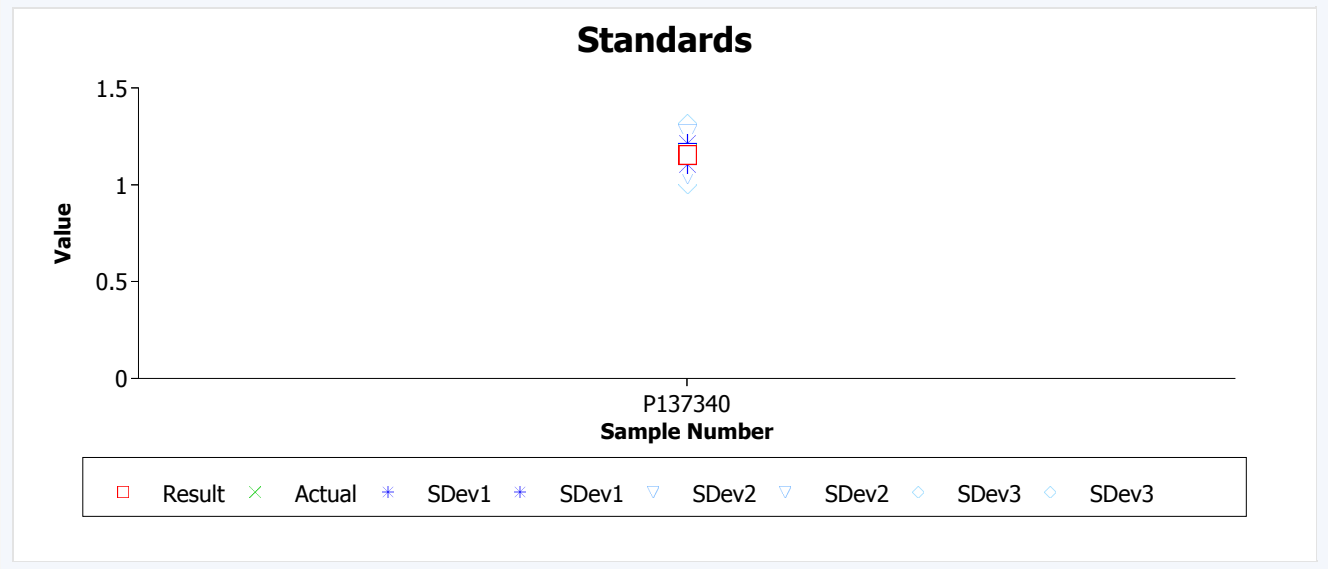
Oct 25, 2016

CONTROL CHARTS

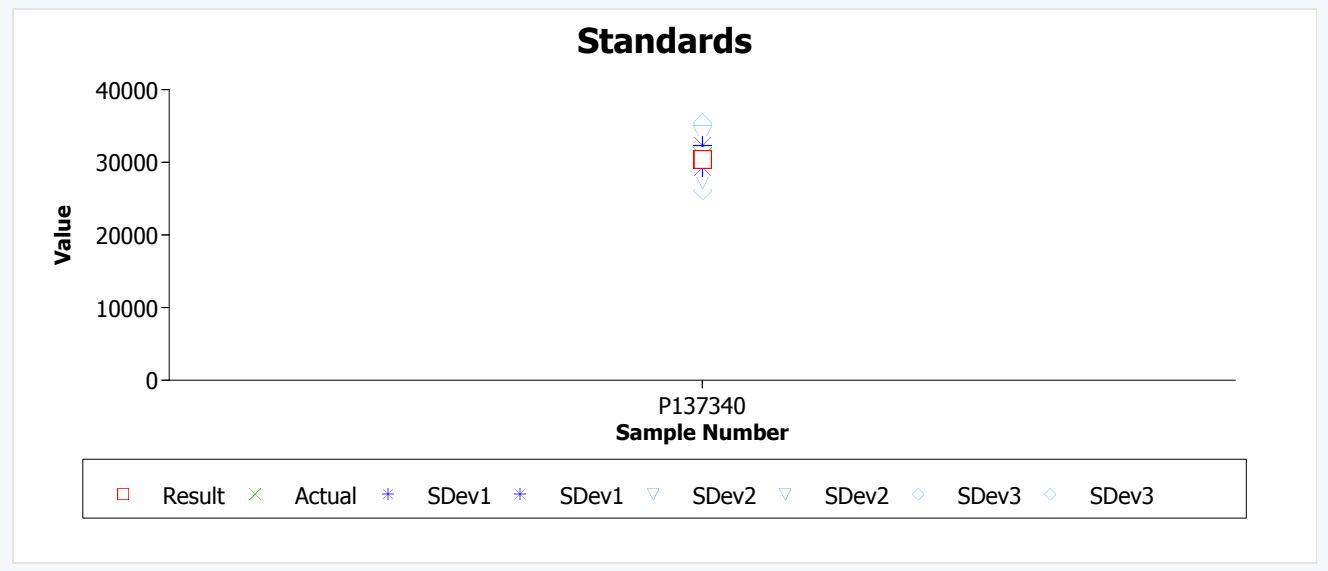
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Au	ppm	ICP22										
P137340	2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1550	0.05300000	3			



Cu	ppm	MEICP61a										
P137340	2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	30400.0000	1540.00000000	3			



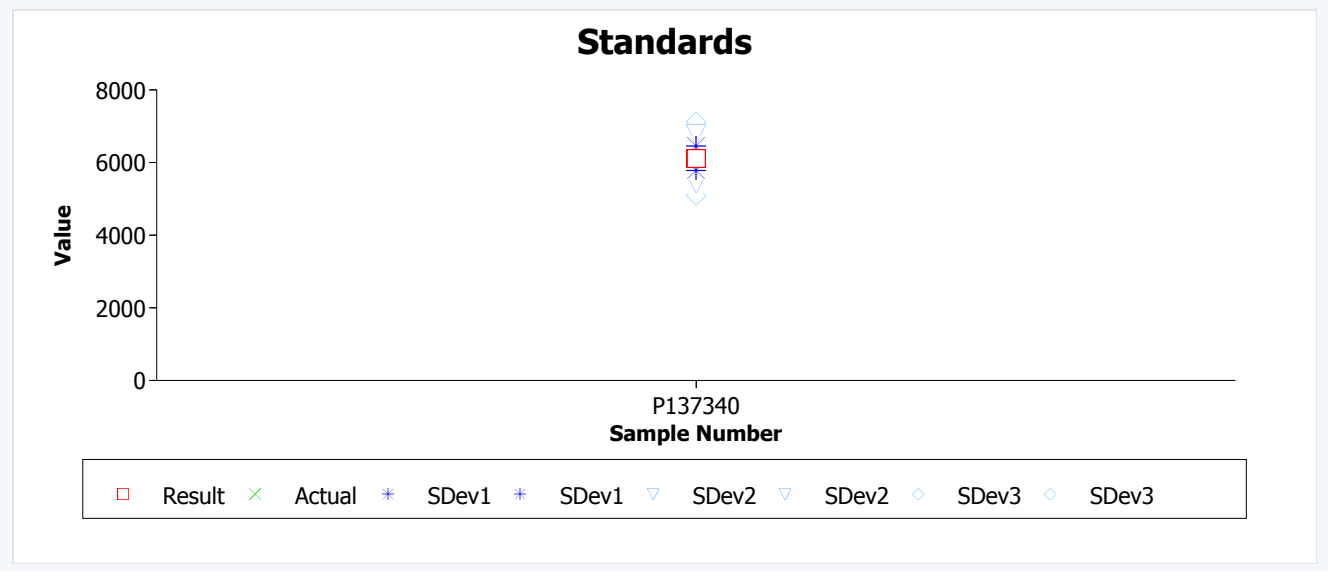
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CONTROL CHARTS

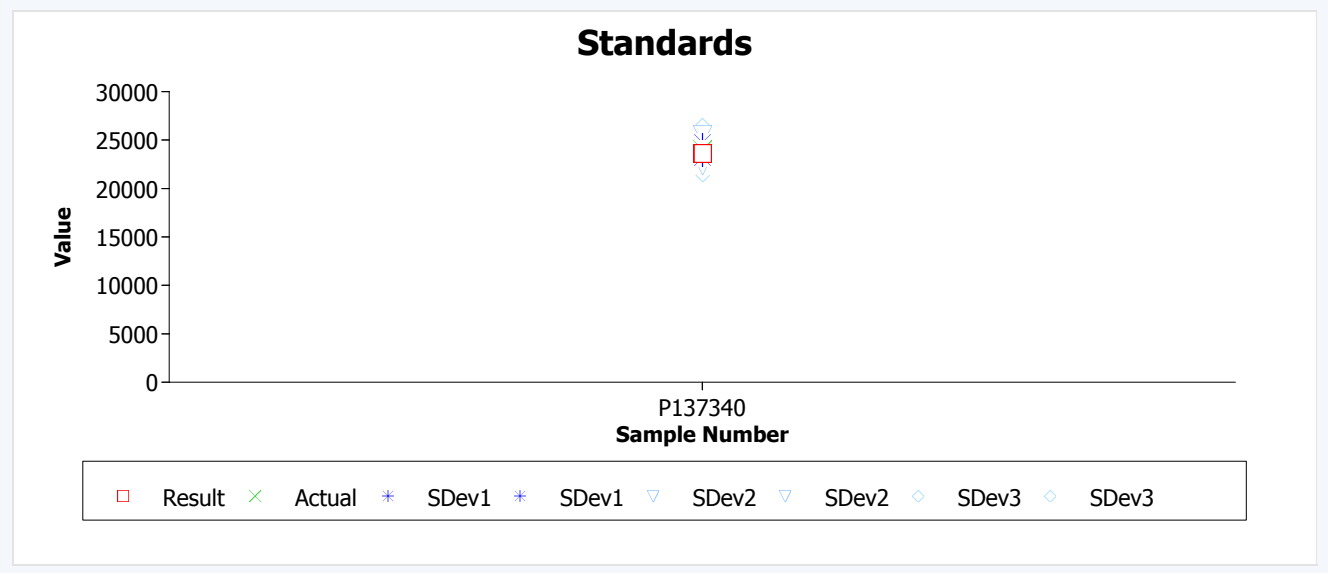
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Pb	ppm	MEICP61a										
P137340		2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6120.0000	340.00000000	3		



Zn	ppm	MEICP61a										
P137340		2016-Qiqavik Fiel	VO16136727	2016-09-02	ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23600.0000	780.00000000	3		



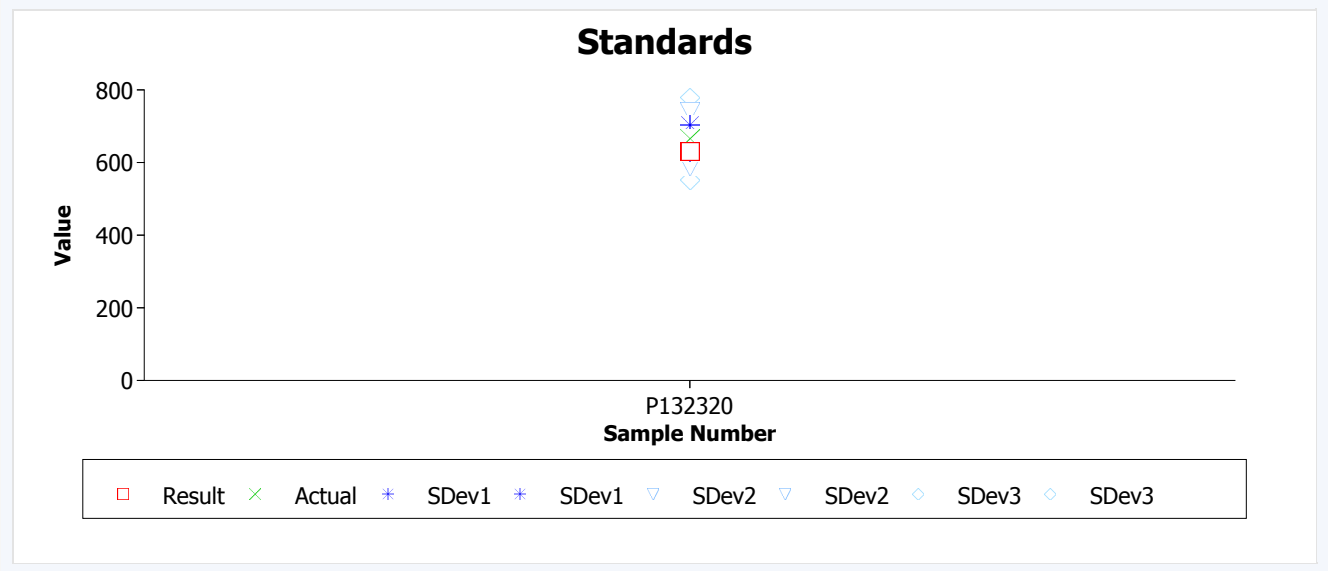
Oct 25, 2016

CONTROL CHARTS

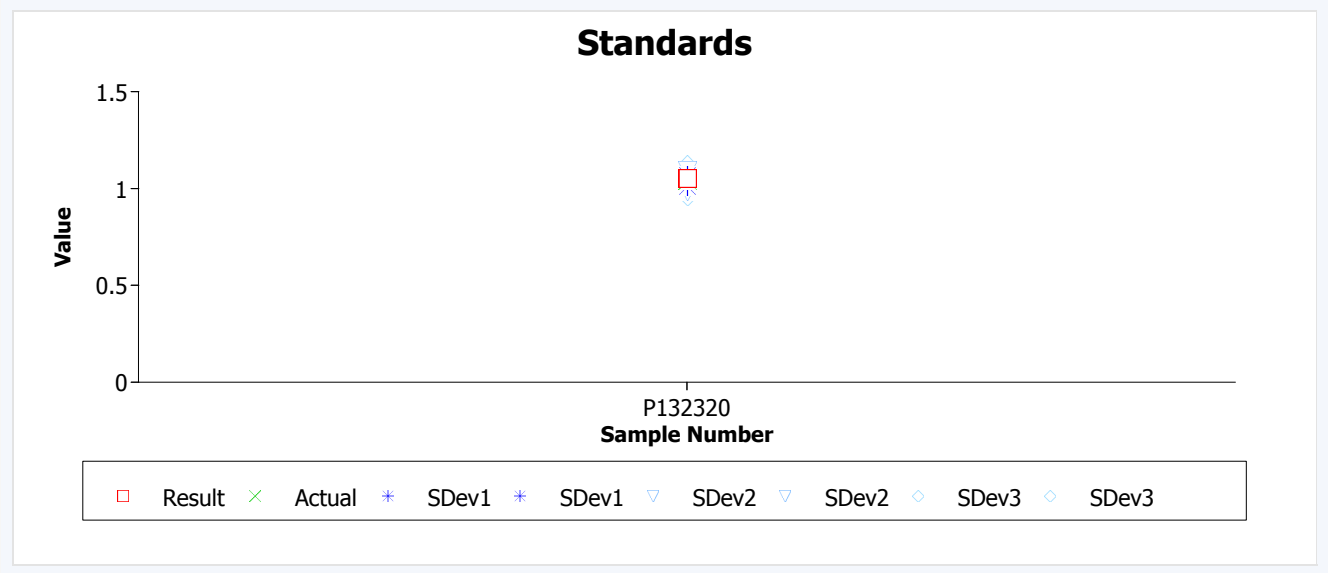
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS523

As	ppm	MEICP61a										
P132320		2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	666.0000	630.0000	38.00000000	3		



Au	ppm	ICP22										
P132320		2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.0400	1.0500	0.02700000	3		



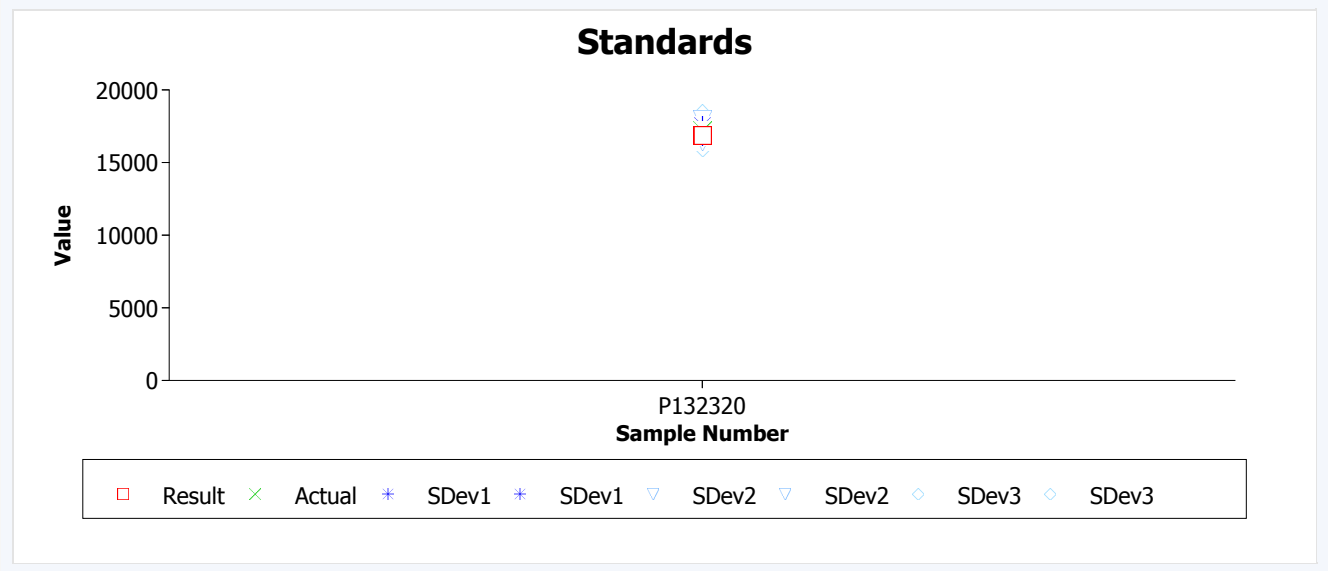
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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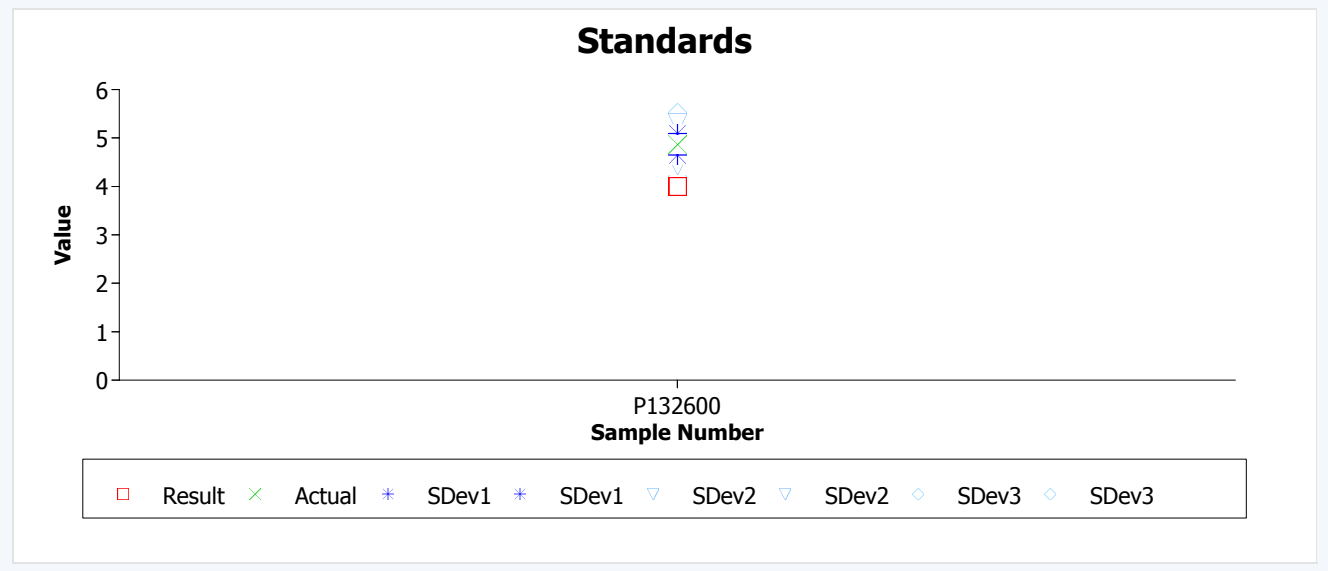
OREAS523

Cu	ppm	MEICP61a										
P132320	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	17200.0000	16900.0000	380.00000000	3			



OREAS60C

Ag	ppm	MEICP61a										
P132600	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.8700	4.0000	0.22000000	3			



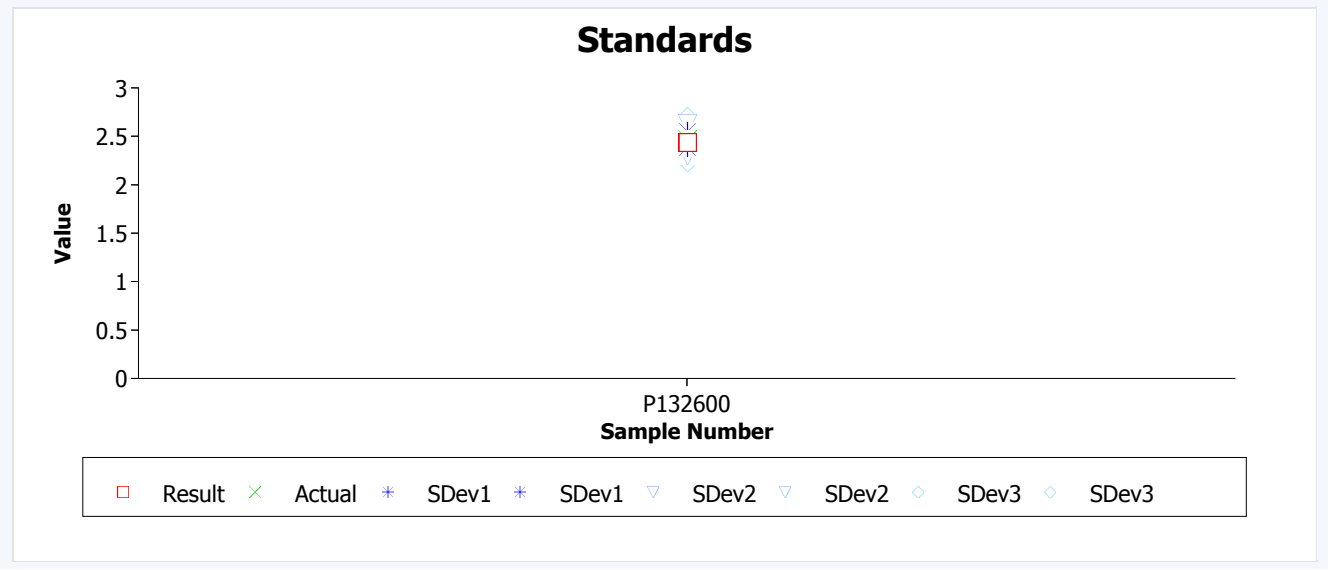
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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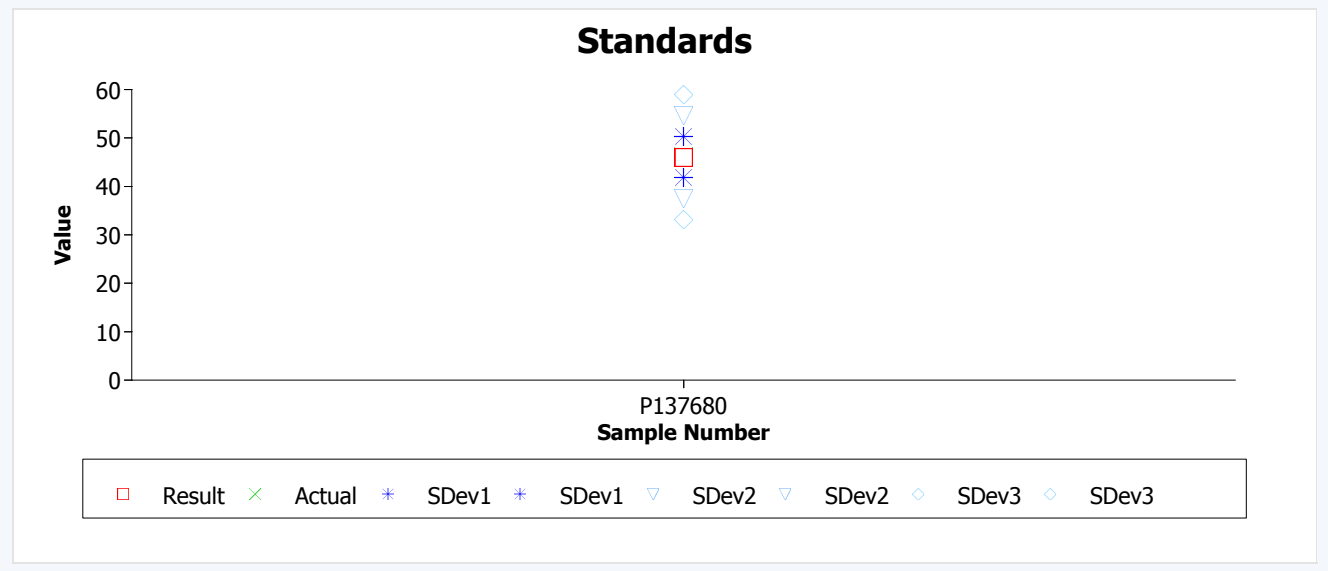
OREAS60C

Au	ppm	ICP22										
P132600	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.4700	2.4400	0.08000000	3			



OREAS624

Ag	ppm	MEICP61a										
P137680	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	46.0000	4.29000000	3			



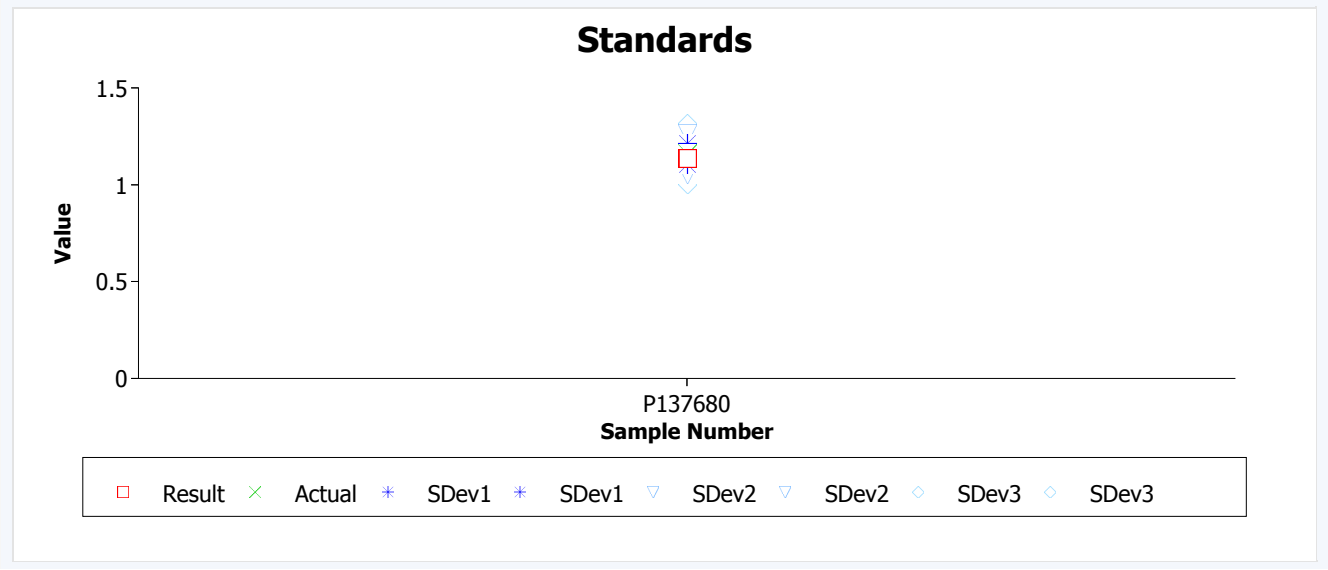
Oct 25, 2016

CONTROL CHARTS

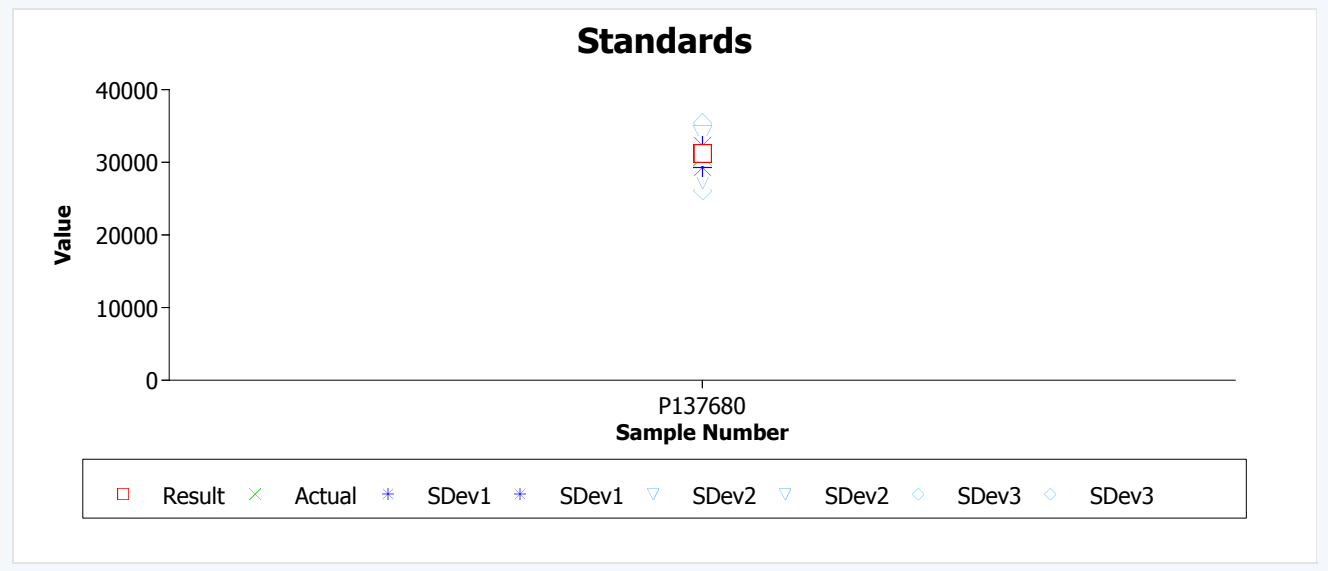
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Au	ppm	ICP22										
P137680	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1350	0.05300000	3			



Cu	ppm	MEICP61a										
P137680	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	30800.0000	31200.0000	1540.00000000	3			



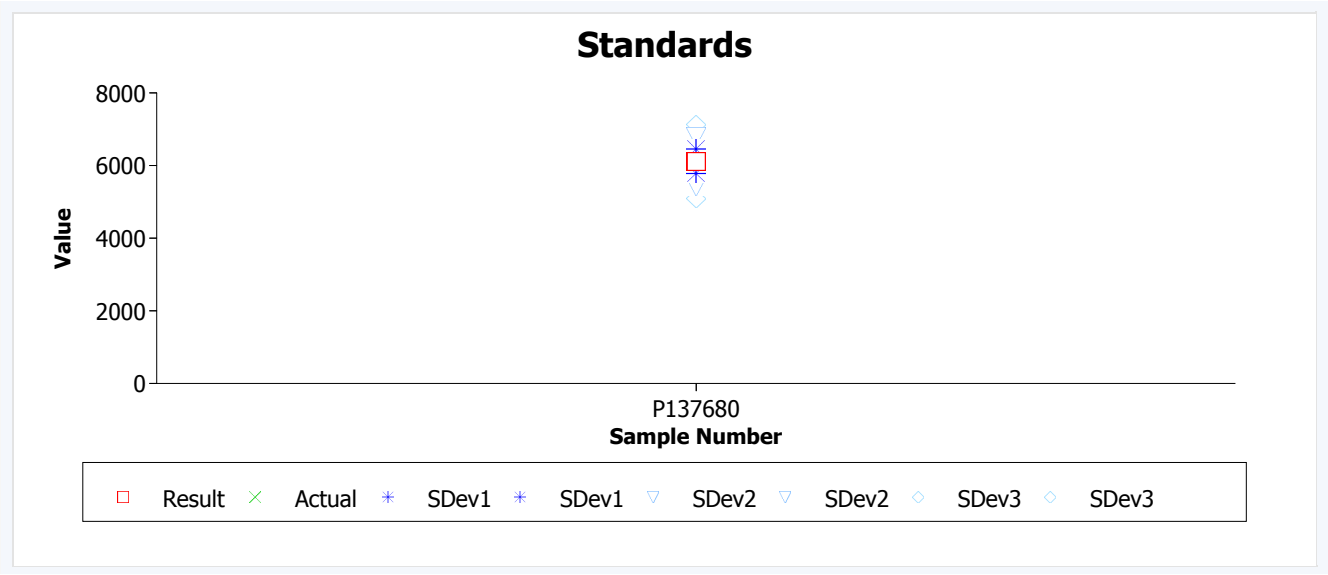
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CONTROL CHARTS

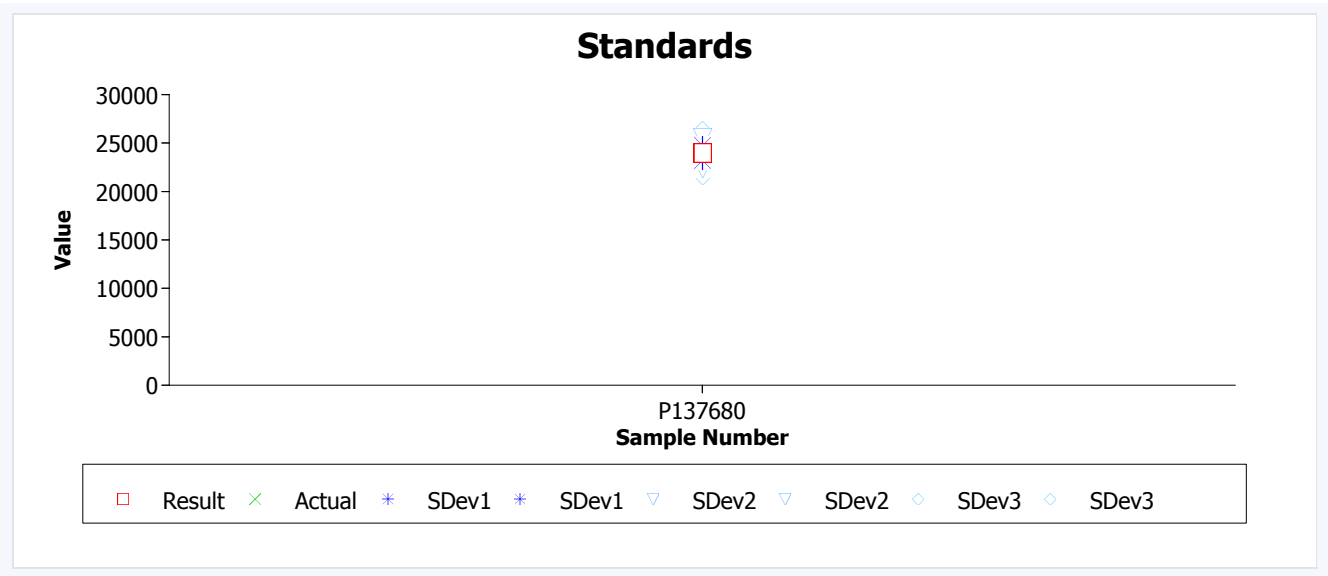
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Pb	ppm	MEICP61a										
P137680	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	6120.0000	6120.0000	340.00000000	3			



Zn	ppm	MEICP61a										
P137680	2016-Qiqavik Fiel	VO16136735	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	24000.0000	24000.0000	780.00000000	3			



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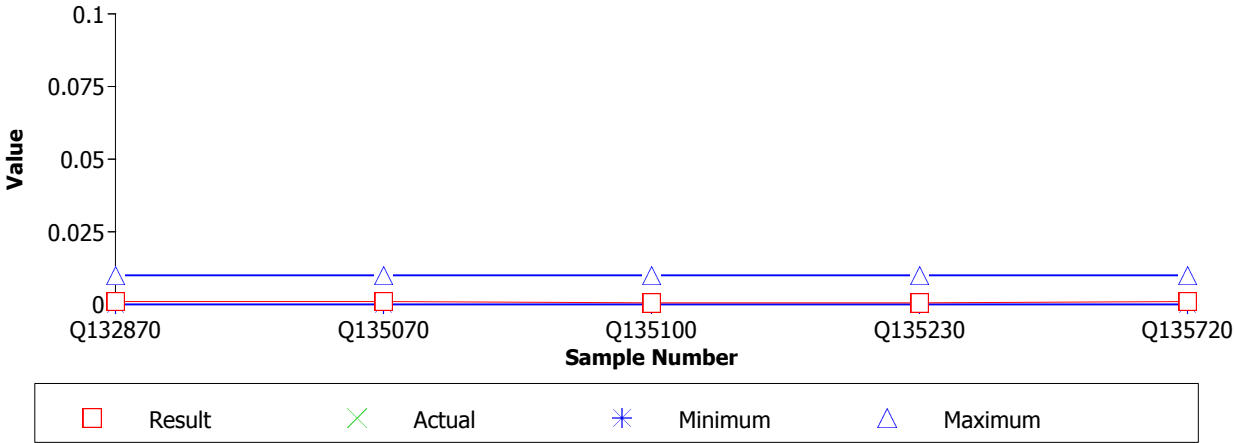
CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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Au	ppm	ICP22										
Q132870	QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0010			0.0000	0.0100
Q135070	QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0010			0.0000	0.0100
Q135100	QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0005			0.0000	0.0100
Q135230	QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0005			0.0000	0.0100
Q135720	QK-16-001	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:			0.0010			0.0000	0.0100

Standards



OREAS523

Ag	ppm	MEICP61a										
Q132890	QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.6100	2.0000	0.22300000	3			

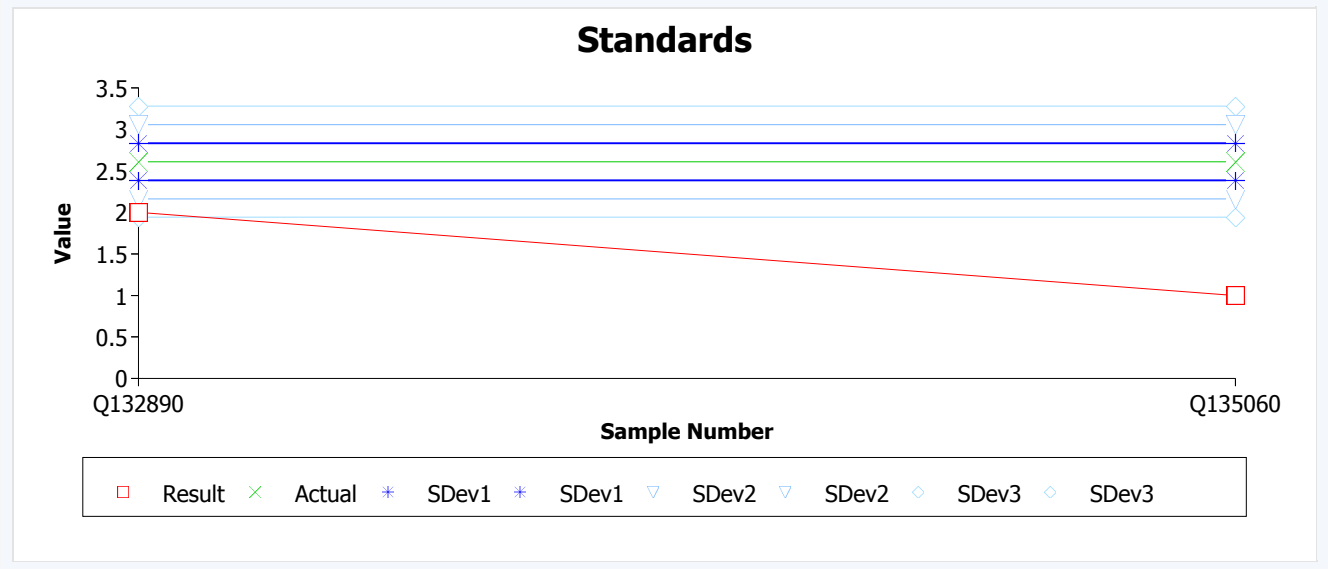
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CONTROL CHARTS

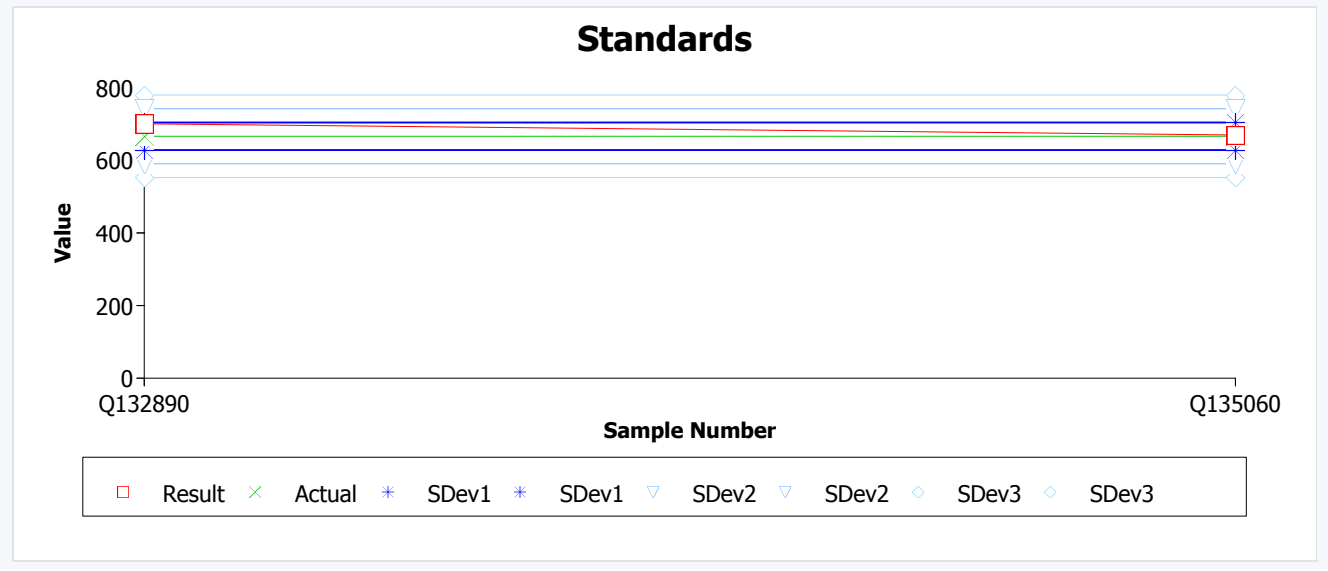
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS523

Ag	ppm	MEICP61a										
Q135060		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.6100	1.0000	0.22300000	3		



As	ppm	MEICP61a										
Q132890		QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	666.0000	700.0000	38.00000000	3		
Q135060		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	666.0000	670.0000	38.00000000	3		



Au	ppm	ICP22										
Q132890		QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.0400	1.0450	0.02700000	3		

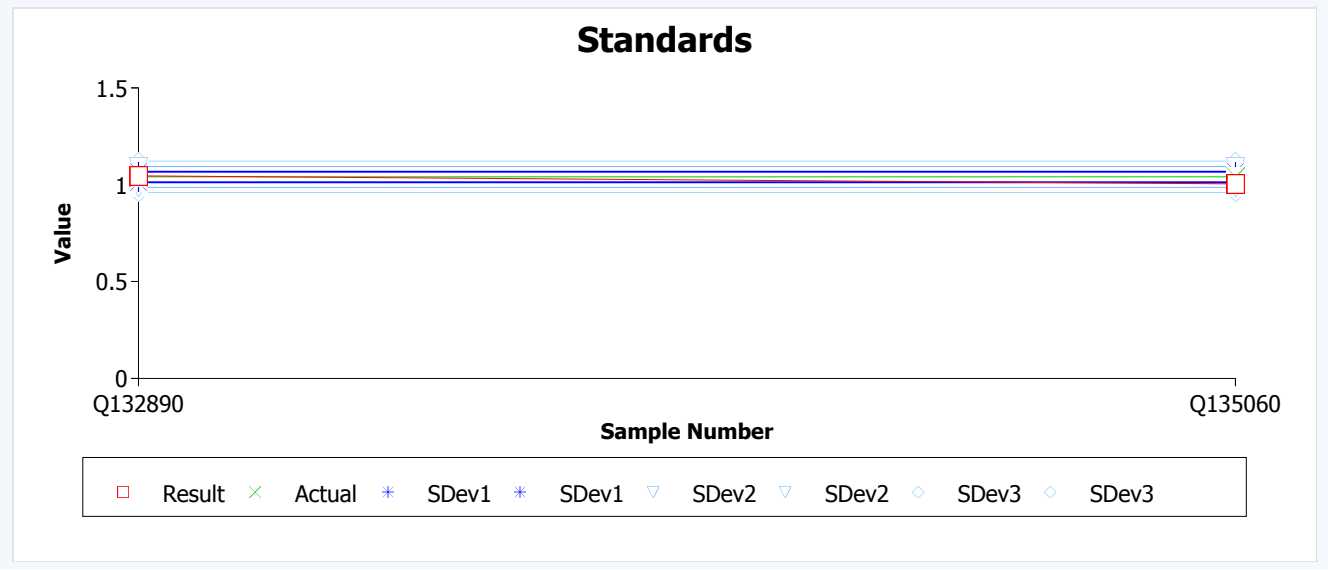
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CONTROL CHARTS

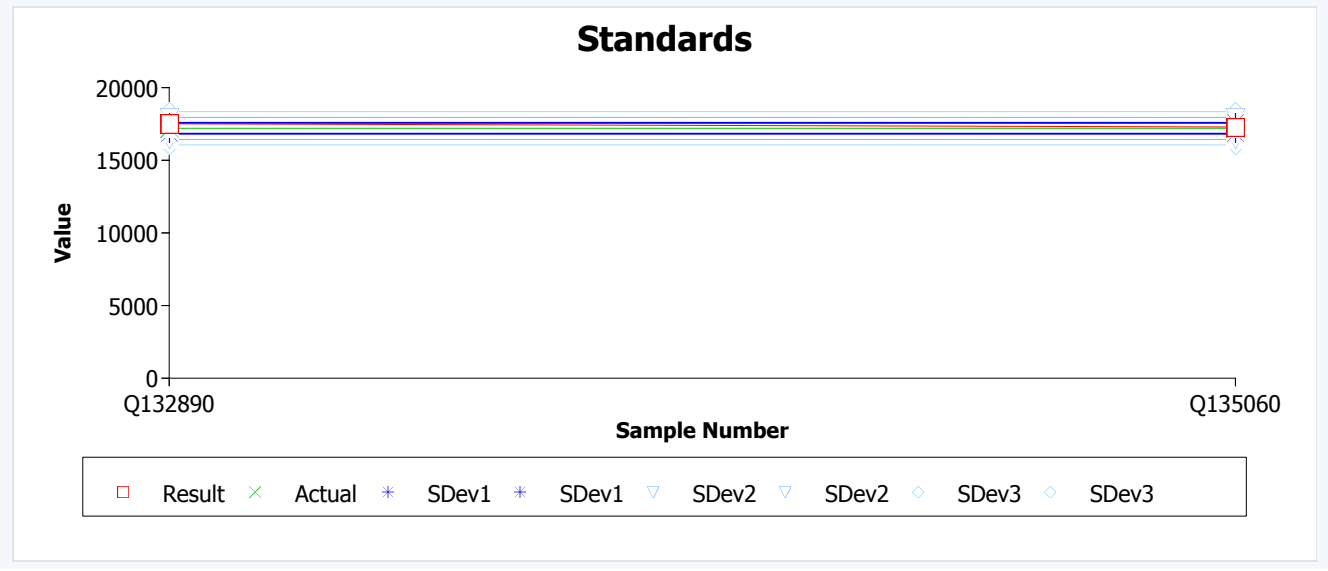
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS523

Au	ppm	ICP22										
Q135060		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	1.0400	1.0050	0.02700000	3		



Cu	ppm	MEICP61a										
Q132890		QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	17200.0000	17500.0000	380.00000000	3		
Q135060		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	17200.0000	17300.0000	380.00000000	3		



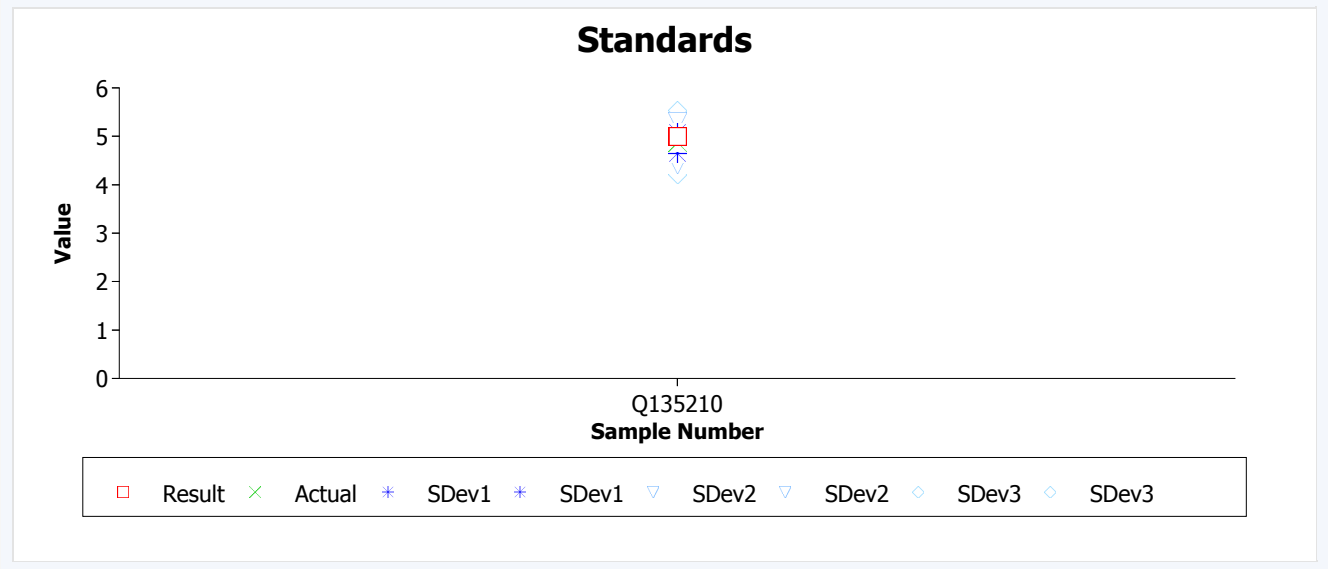
Oct 25, 2016

CONTROL CHARTS

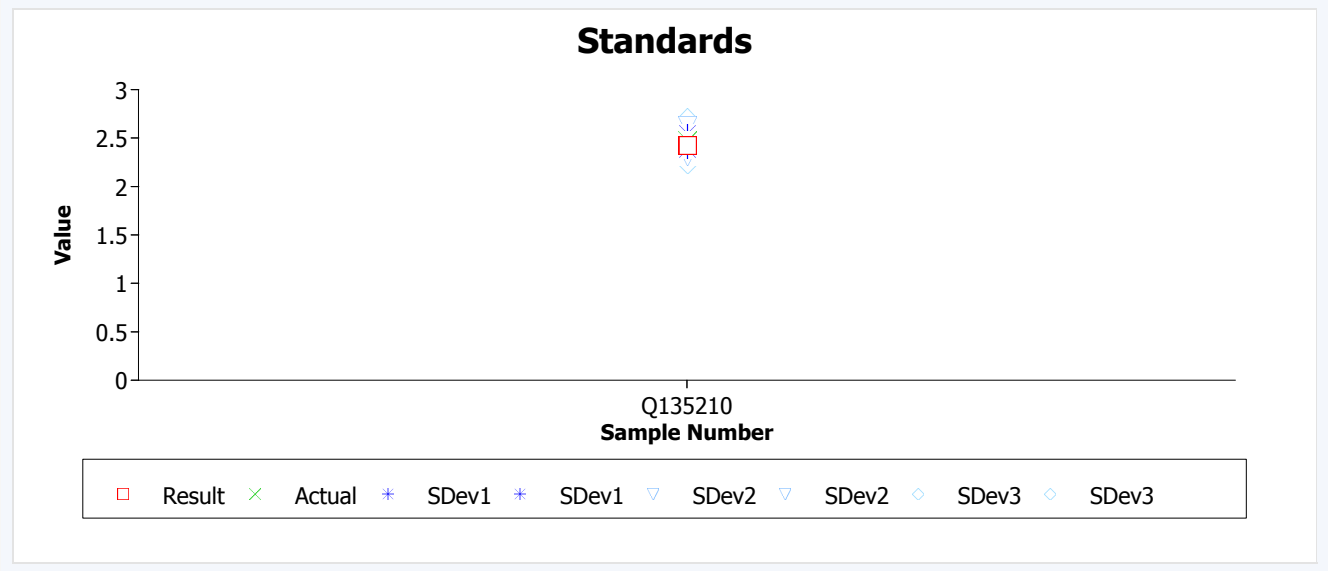
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS60C

Ag	ppm	MEICP61a										
Q135210		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.8700	5.0000	0.22000000	3		



Au	ppm	ICP22										
Q135210		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	2.4700	2.4300	0.08000000	3		



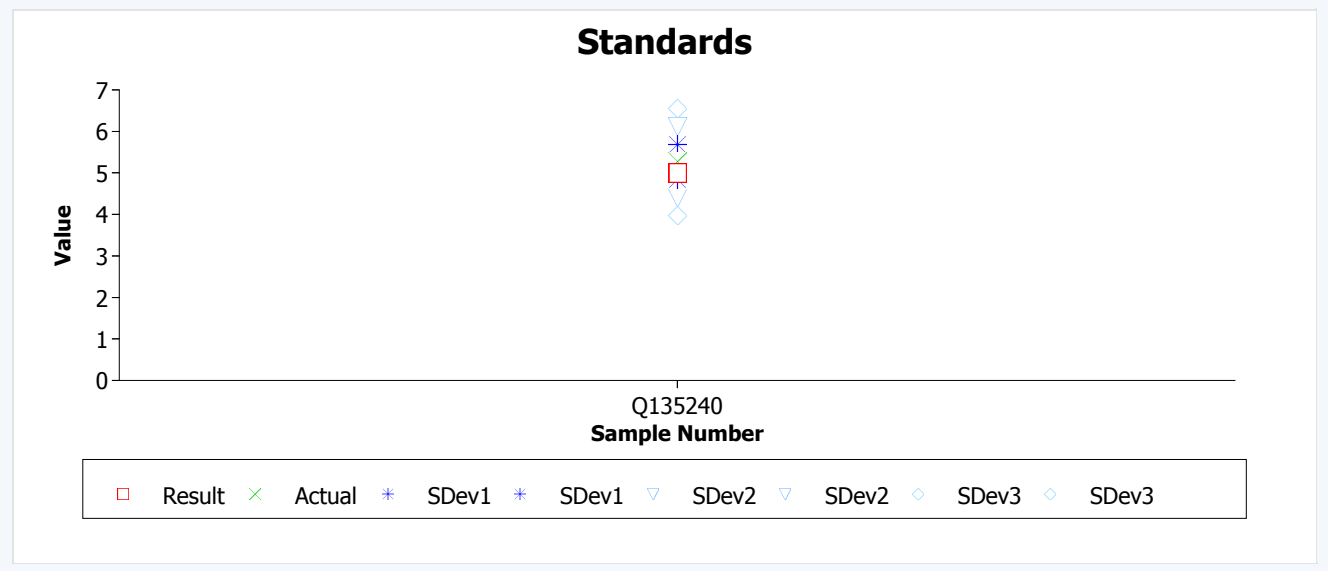
Oct 25, 2016

CONTROL CHARTS

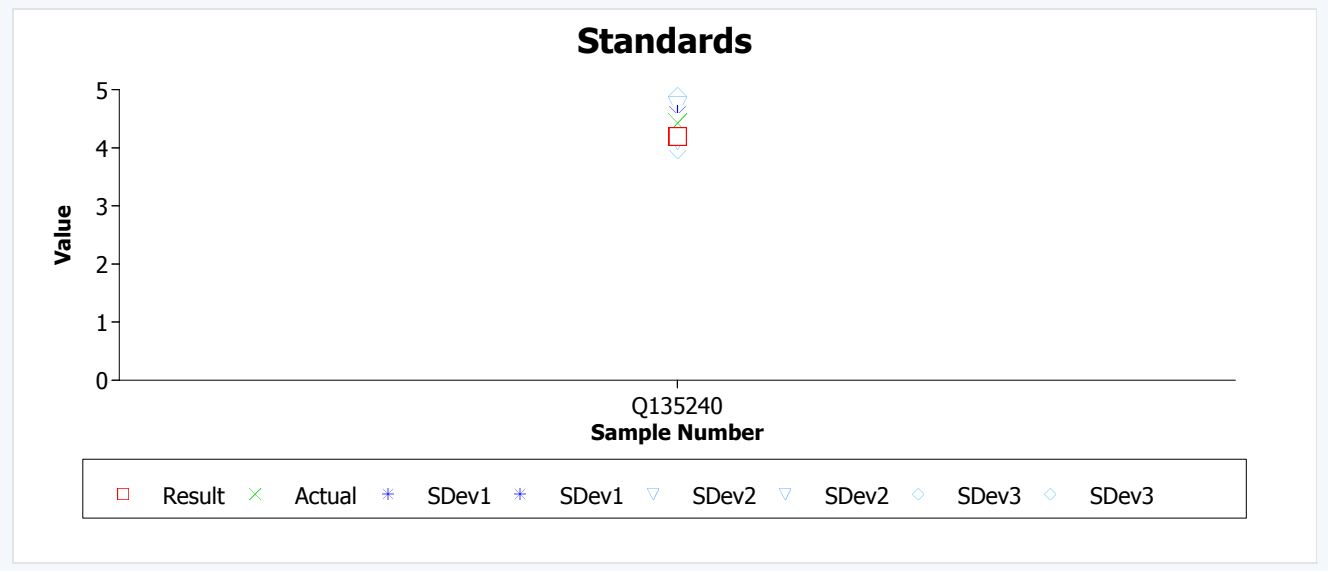
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS61E

Ag	ppm	MEICP61a										
Q135240		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	5.2700	5.0000	0.43000000	3		



Au	ppm	ICP22										
Q135240		QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	4.4300	4.1900	0.15000000	3		



OREAS624

Ag	ppm	MEICP61a										
Q132860		QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	45.0000	4.29000000	3		

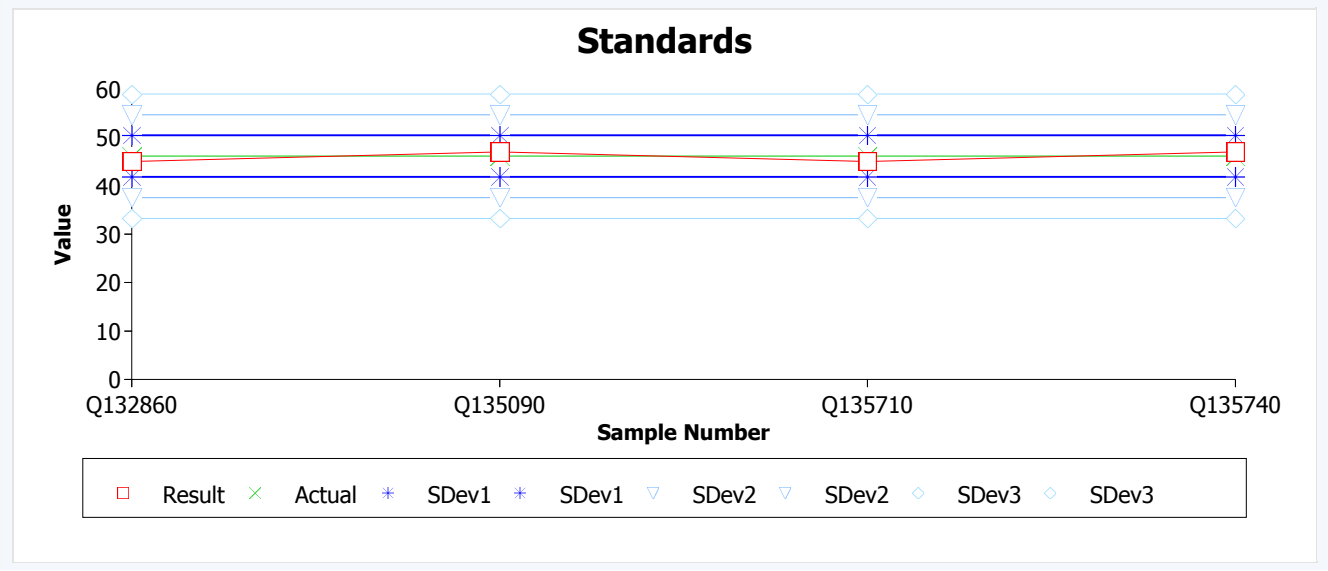
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Ag	ppm	MEICP61a										
Q135090	QK-16-005	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	47.0000	4.29000000	3		
Q135710	QK-16-001	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	45.0000	4.29000000	3		
Q135740	QK-16-002	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	46.1000	47.0000	4.29000000	3		



Au	ppm	ICP22										
Q132860	QK-16-006	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1000	0.05300000	3		
Q135090	QK-16-005	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1550	0.05300000	3		
Q135710	QK-16-001	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	1.1600	1.1350	0.05300000	3		

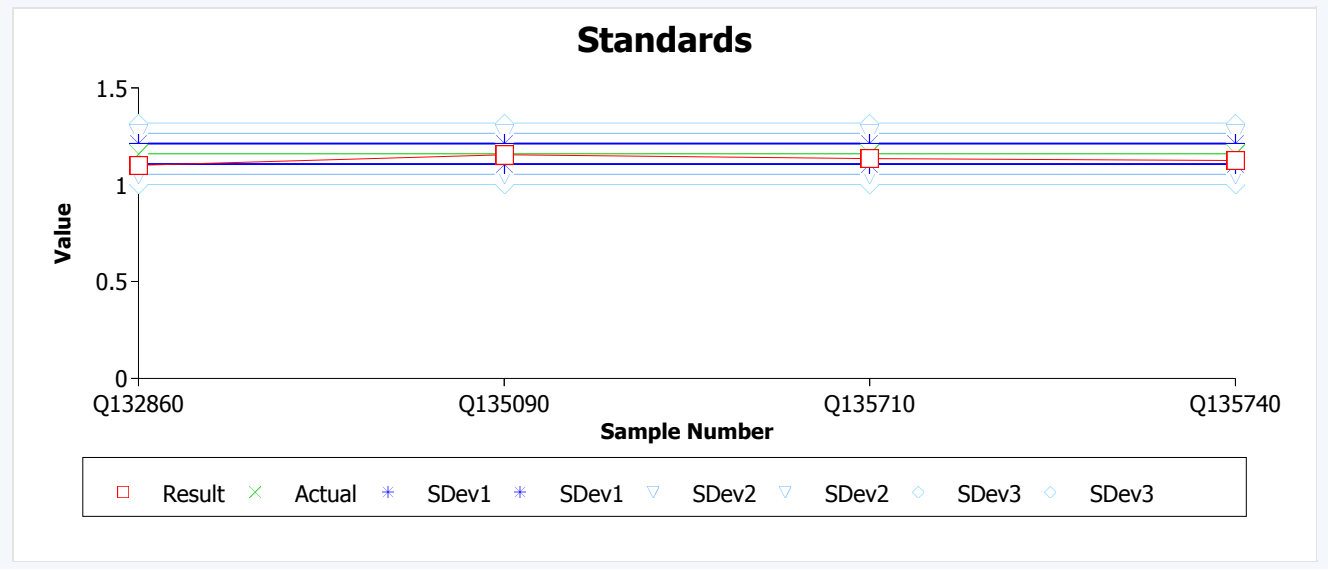
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CONTROL CHARTS

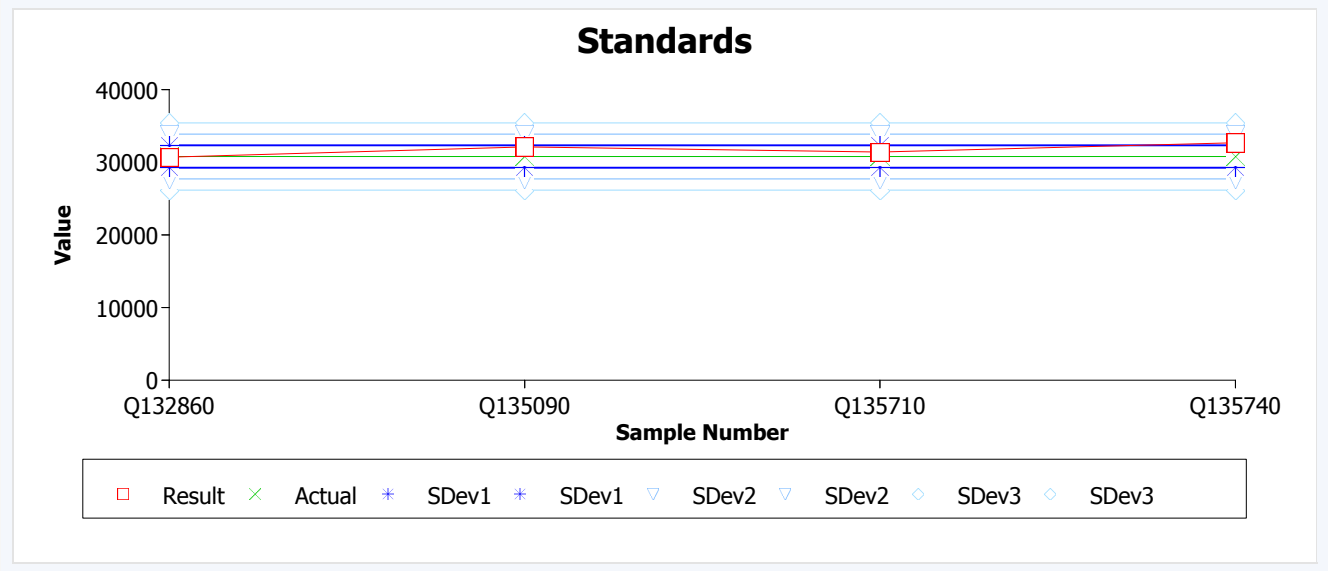
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Au	ppm	ICP22										
Q135740	QK-16-002	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	1.1600	1.1250	0.05300000	3			



Cu	ppm	MEICP61a										
Q132860	QK-16-006	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	30800.0000	30700.0000	1540.00000000	3			
Q135090	QK-16-005	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	30800.0000	32100.0000	1540.00000000	3			
Q135710	QK-16-001	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	30800.0000	31400.0000	1540.00000000	3			
Q135740	QK-16-002	VO16136743	2016-09-13	ALS CHEMEX	Qiqavik ICP22-ICP61i	30800.0000	32700.0000	1540.00000000	3			



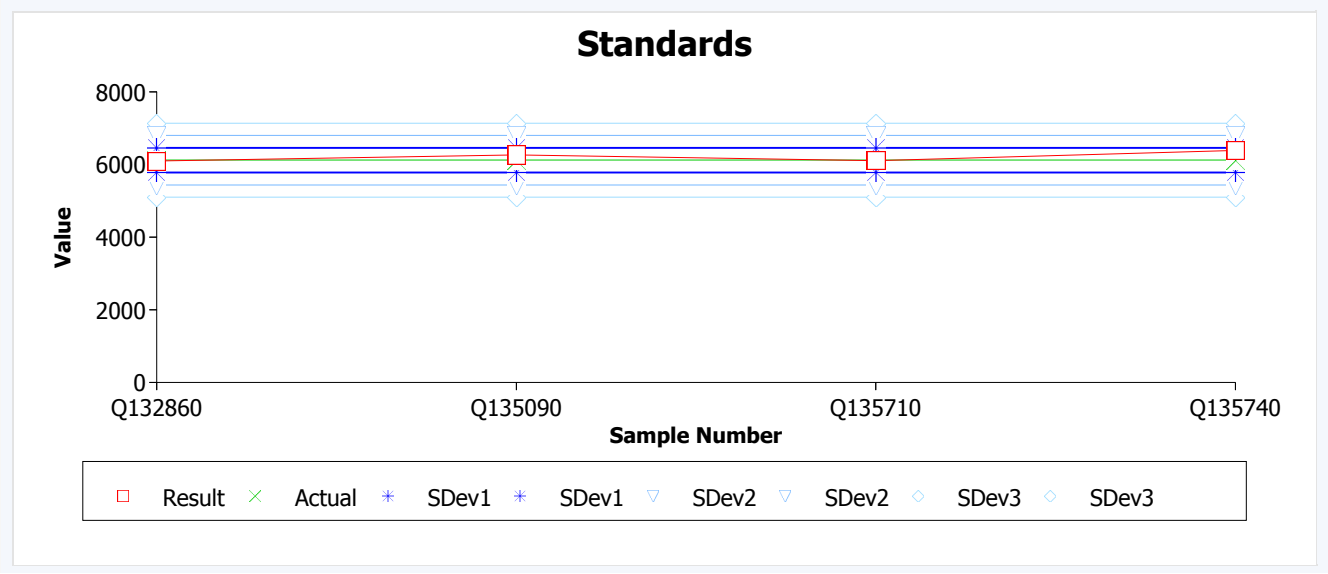
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS624

Pb	ppm	MEICP61a										
Q132860	QK-16-006	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6100.0000	340.00000000	3		
Q135090	QK-16-005	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6260.0000	340.00000000	3		
Q135710	QK-16-001	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6110.0000	340.00000000	3		
Q135740	QK-16-002	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	6120.0000	6390.0000	340.00000000	3		



Zn	ppm	MEICP61a										
Q132860	QK-16-006	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23600.0000	780.00000000	3		
Q135090	QK-16-005	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	24900.0000	780.00000000	3		
Q135710	QK-16-001	VO16136743	2016-09-13		ALS CHEMEX	Qiqavik ICP22-ICP61:	24000.0000	23800.0000	780.00000000	3		

CONTROL CHARTS

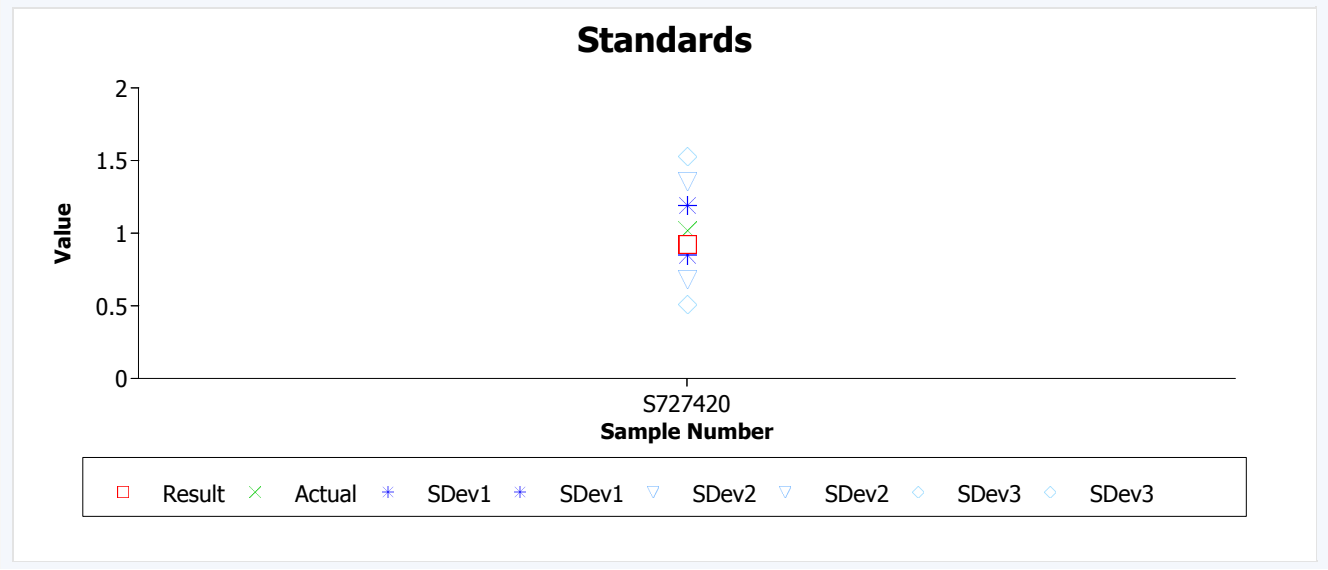
Oct 25, 2016

CONTROL CHARTS

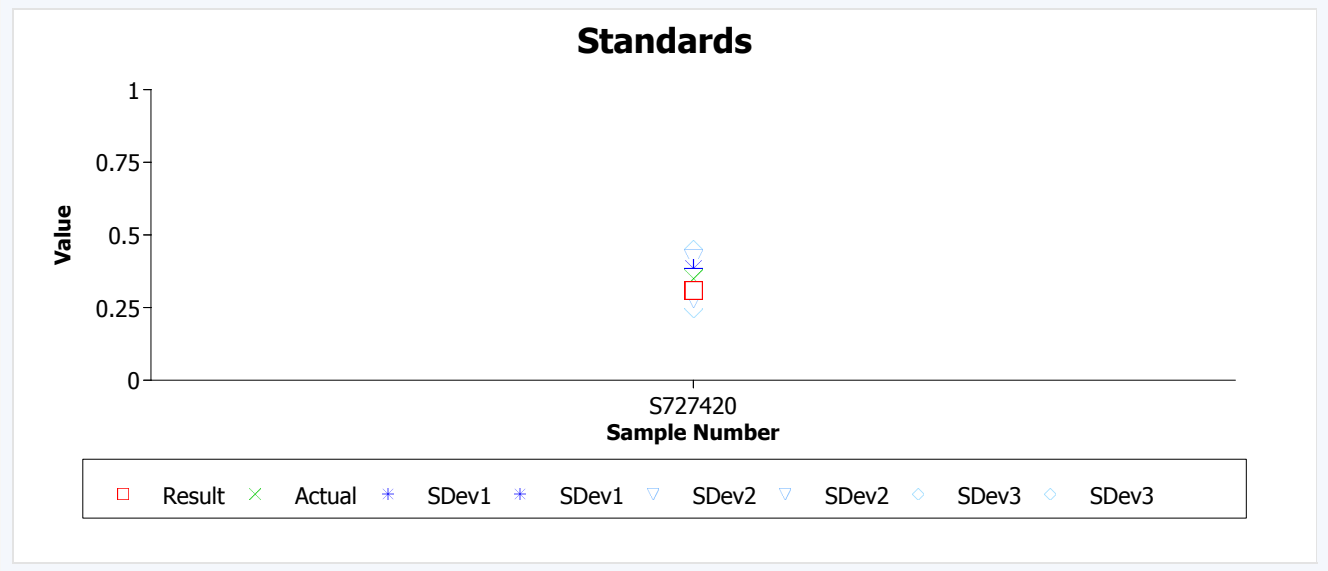
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S727420		2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.9200	0.17000000	3		



Bi	ppm	MEMS61										
S727420		2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3100	0.03400000	3		



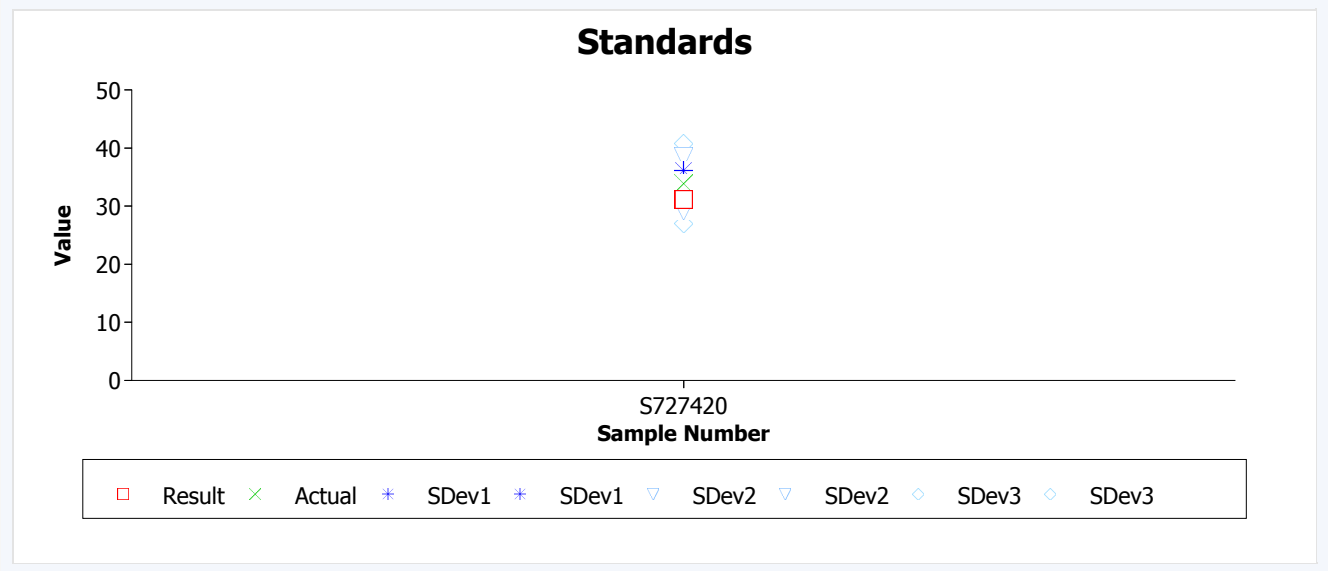
Oct 25, 2016

CONTROL CHARTS

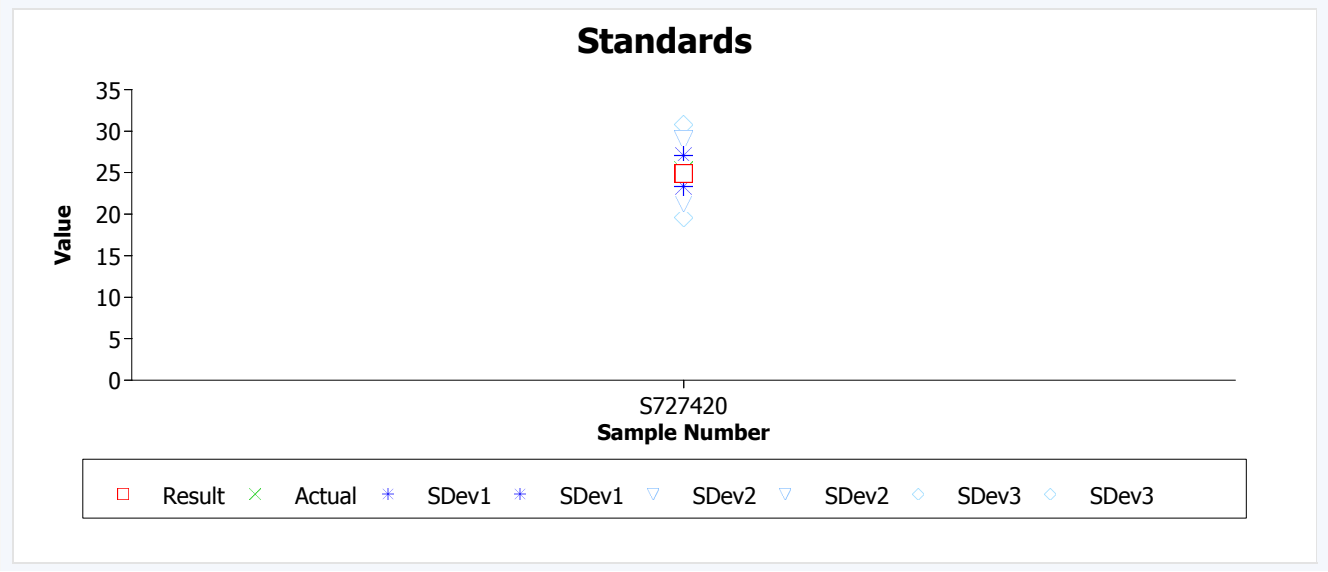
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S727420	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	31.1000	2.29000000	3			



Pb	ppm	MEMS61										
S727420	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	24.9000	1.87000000	3			



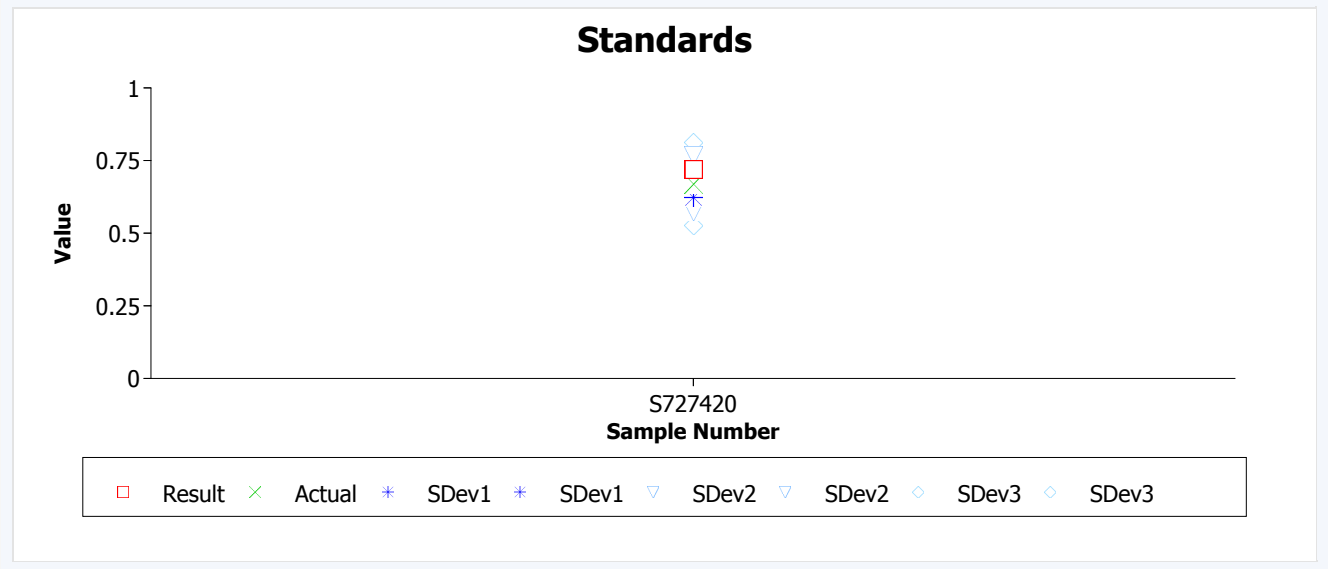
Oct 25, 2016

CONTROL CHARTS

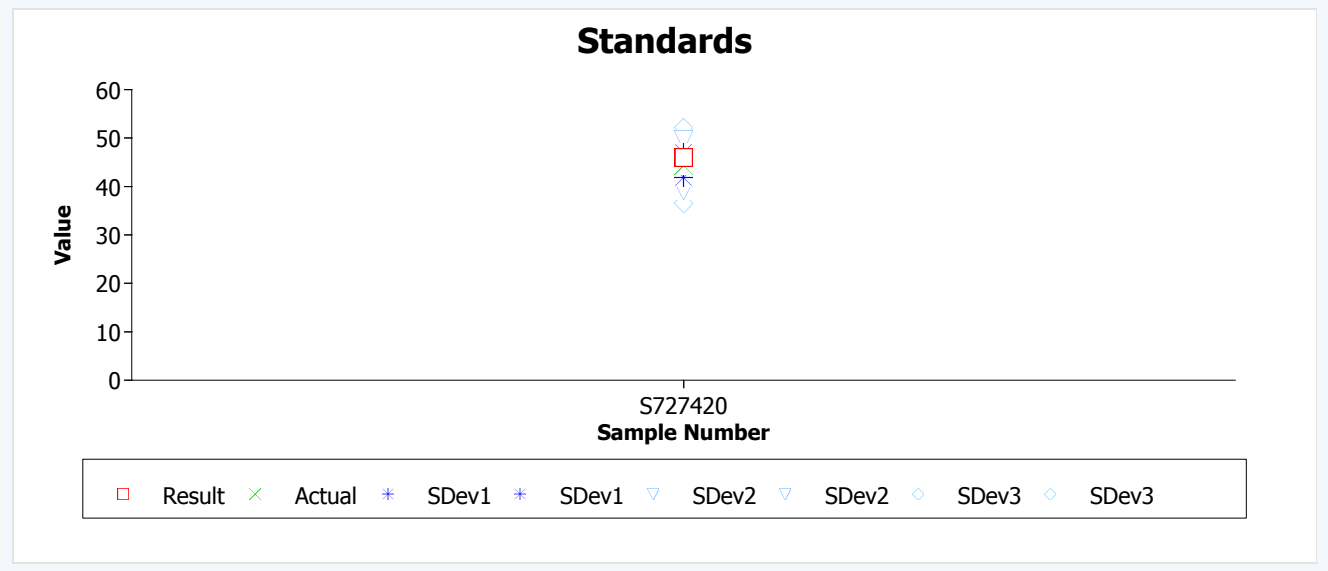
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S727420	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.7200	0.04800000	3			



Zn	ppm	MEMS61										
S727420	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	46.0000	2.60000000	3			



OREAS45D

As	ppm	MEMS61										
S727030	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	15.0000	0.86000000	3			

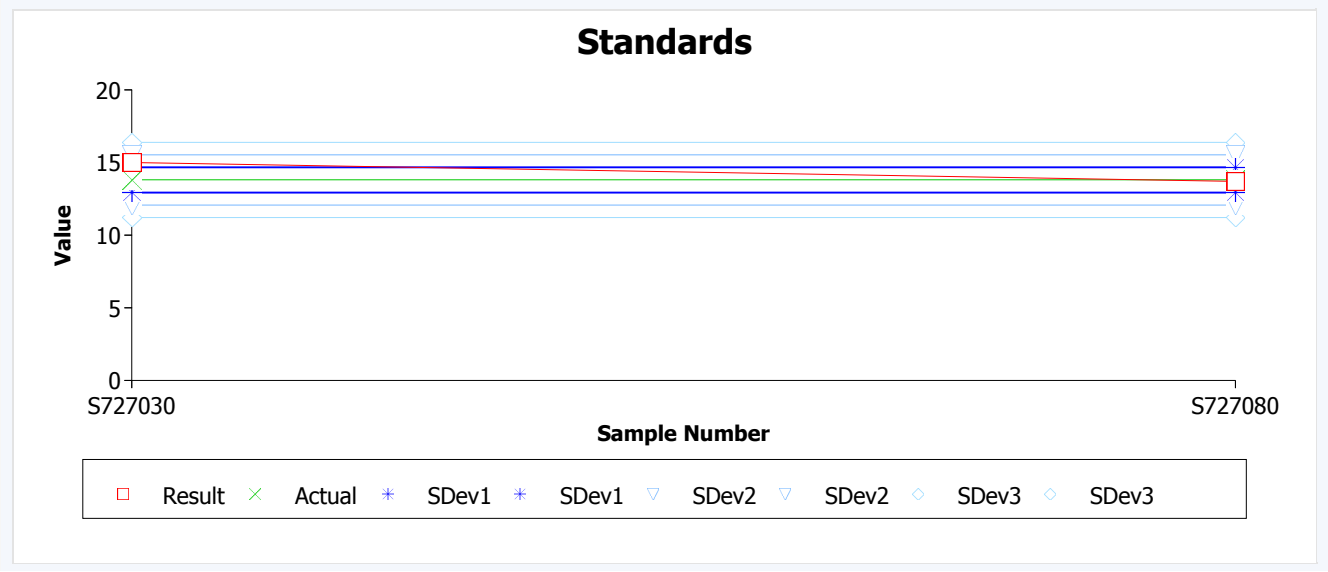
Oct 25, 2016

CONTROL CHARTS

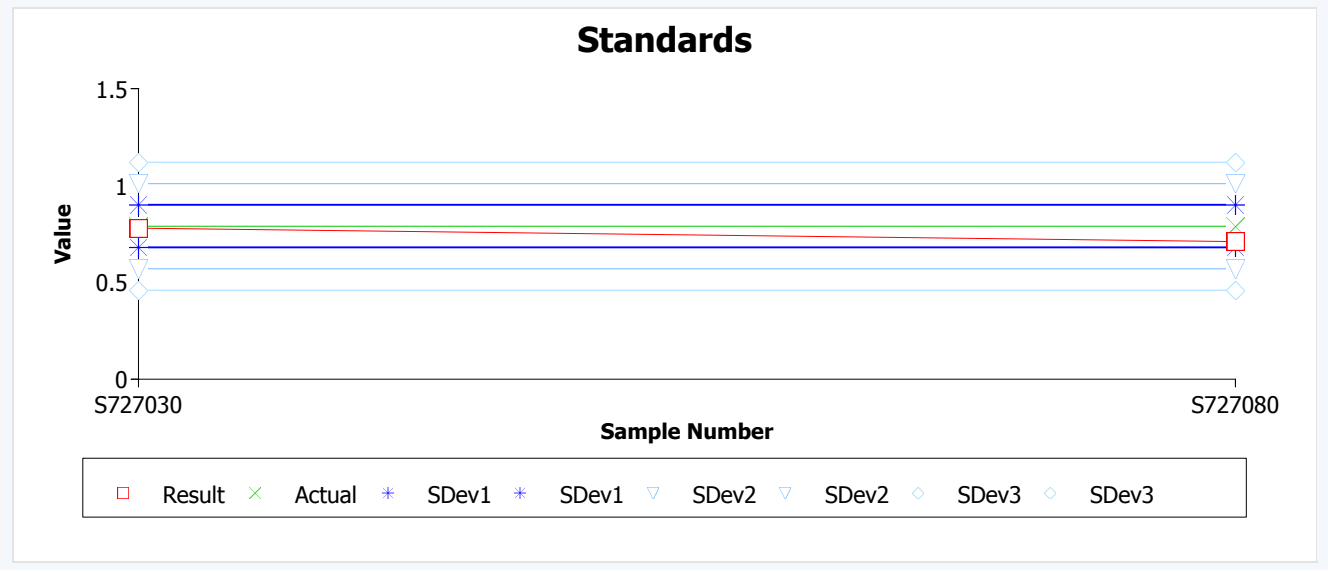
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S727080	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.7000	0.86000000	3			



Be	ppm	MEMS61										
S727030	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7800	0.11000000	3			
S727080	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7100	0.11000000	3			



Bi	ppm	MEMS61										
S727030	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3300	0.03000000	3			

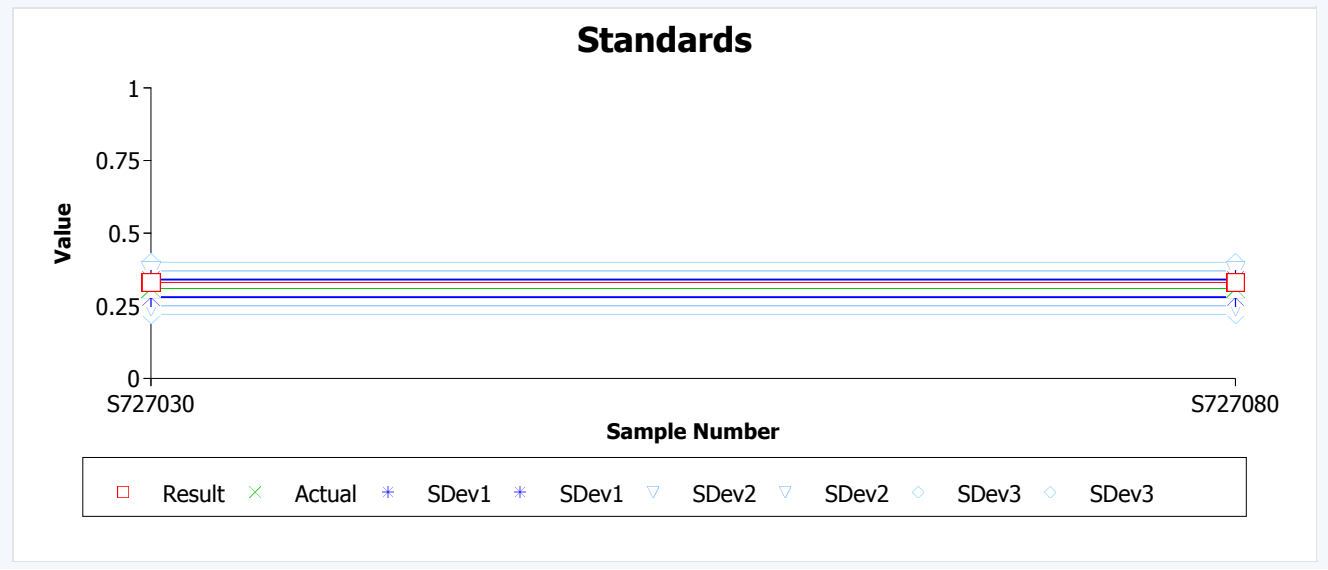
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CONTROL CHARTS

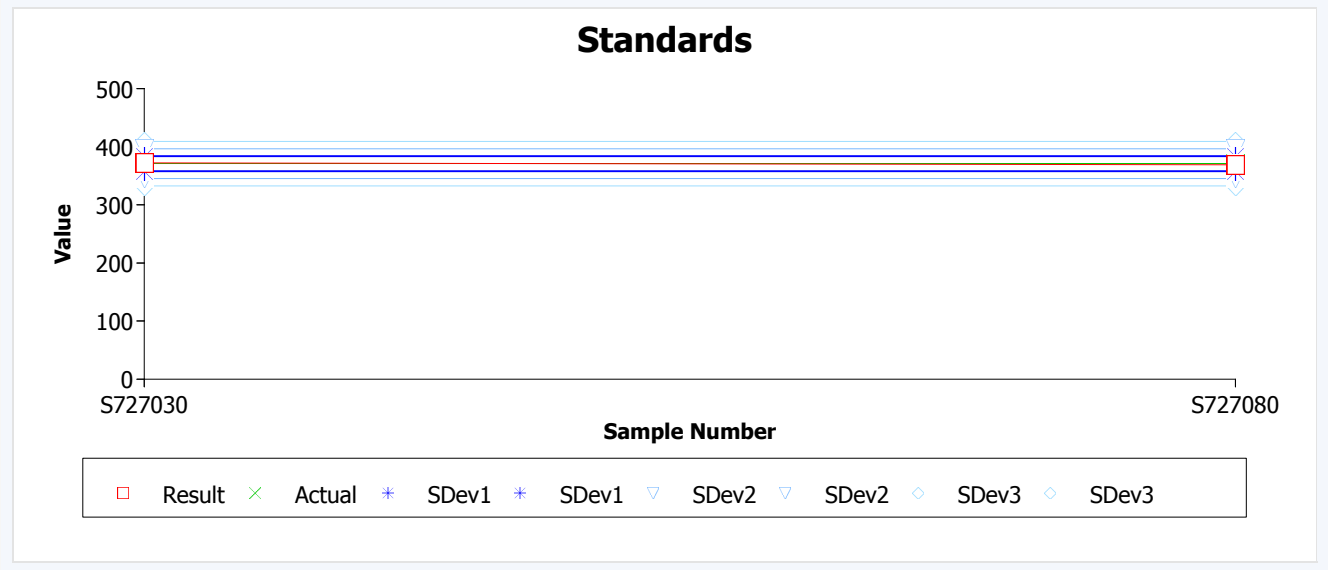
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S727080		2016-Qiqavik Fiel VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3300	0.03000000	3			



Cu	ppm	MEMS61										
S727030		2016-Qiqavik Fiel VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	372.0000	12.80000000	3			
S727080		2016-Qiqavik Fiel VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	369.0000	12.80000000	3			



Pb	ppm	MEMS61										
S727030		2016-Qiqavik Fiel VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.7000	1.35000000	3			

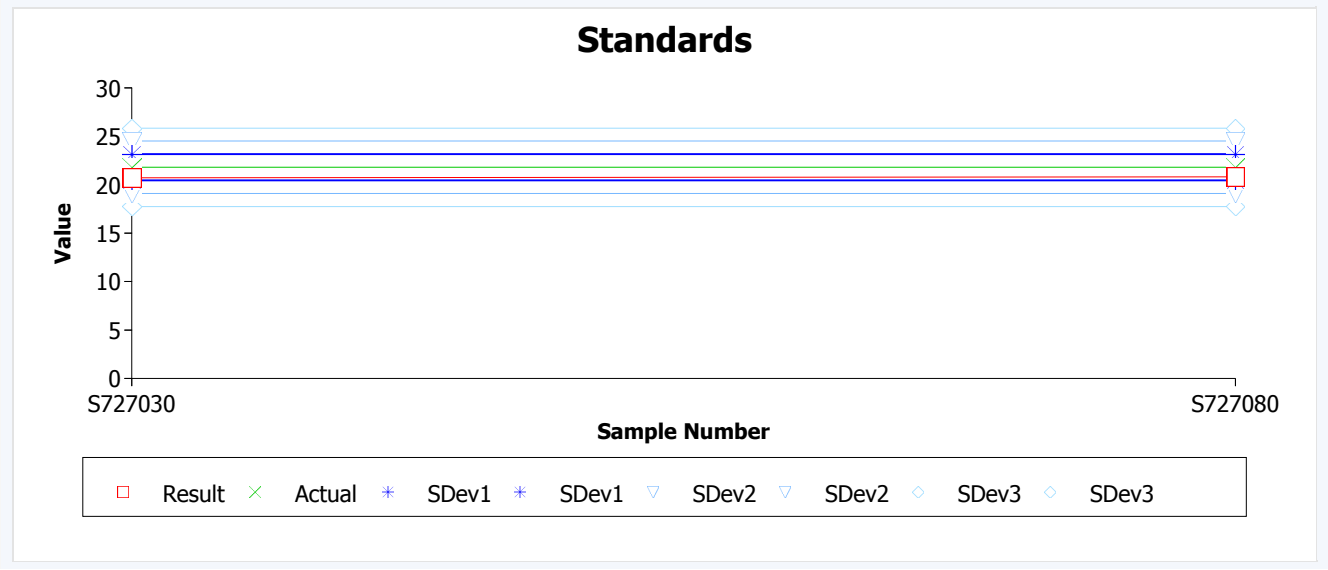
Oct 25, 2016

CONTROL CHARTS

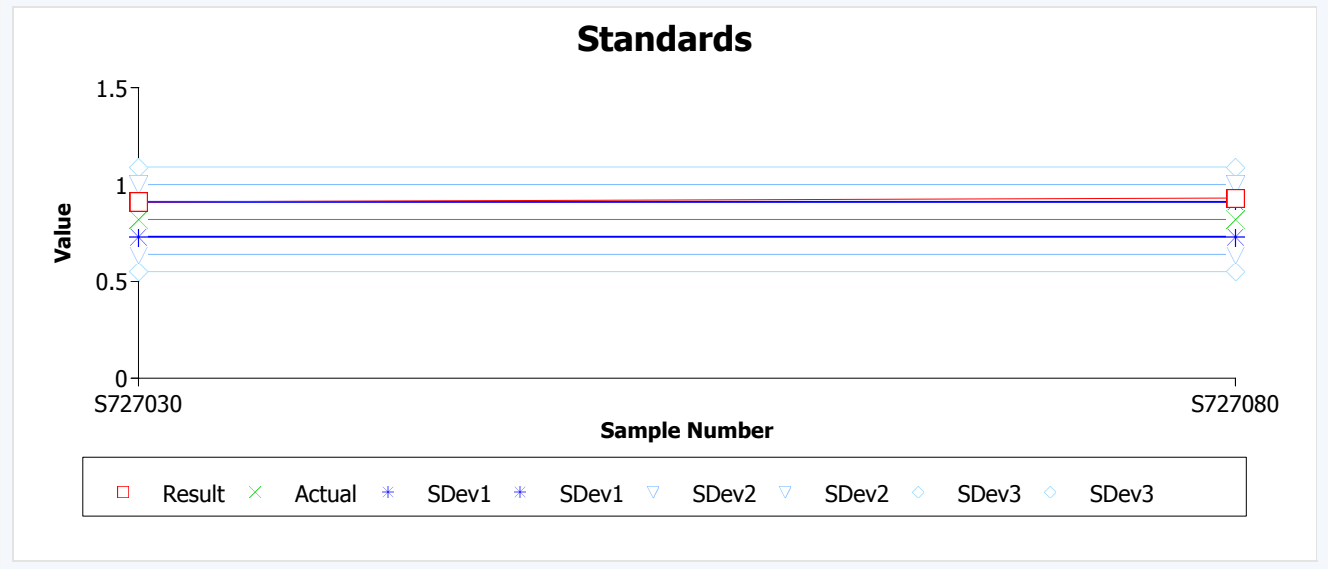
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S727080	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	20.8000	1.35000000	3			



Sb	ppm	MEMS61										
S727030	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9100	0.09000000	3			
S727080	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.9300	0.09000000	3			



Zn	ppm	MEMS61										
S727030	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	45.0000	4.70000000	3			

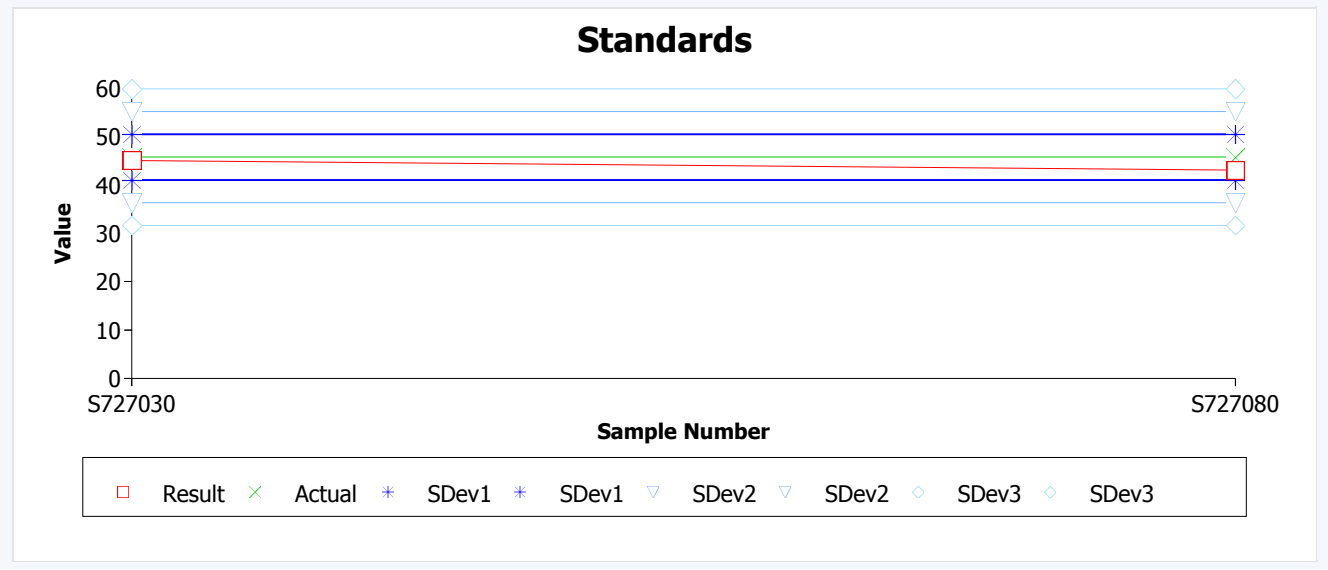
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Zn	ppm	MEMS61										
S727080	2016-Qiqavik Fiel	VO16143596	2016-09-22	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			



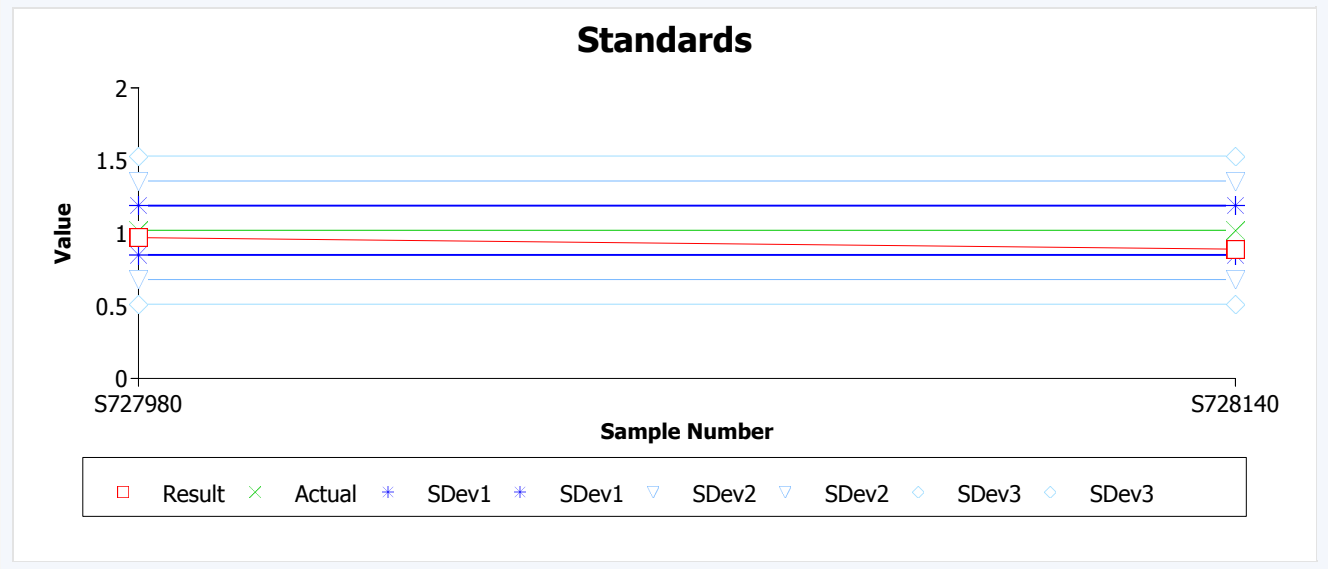
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CONTROL CHARTS

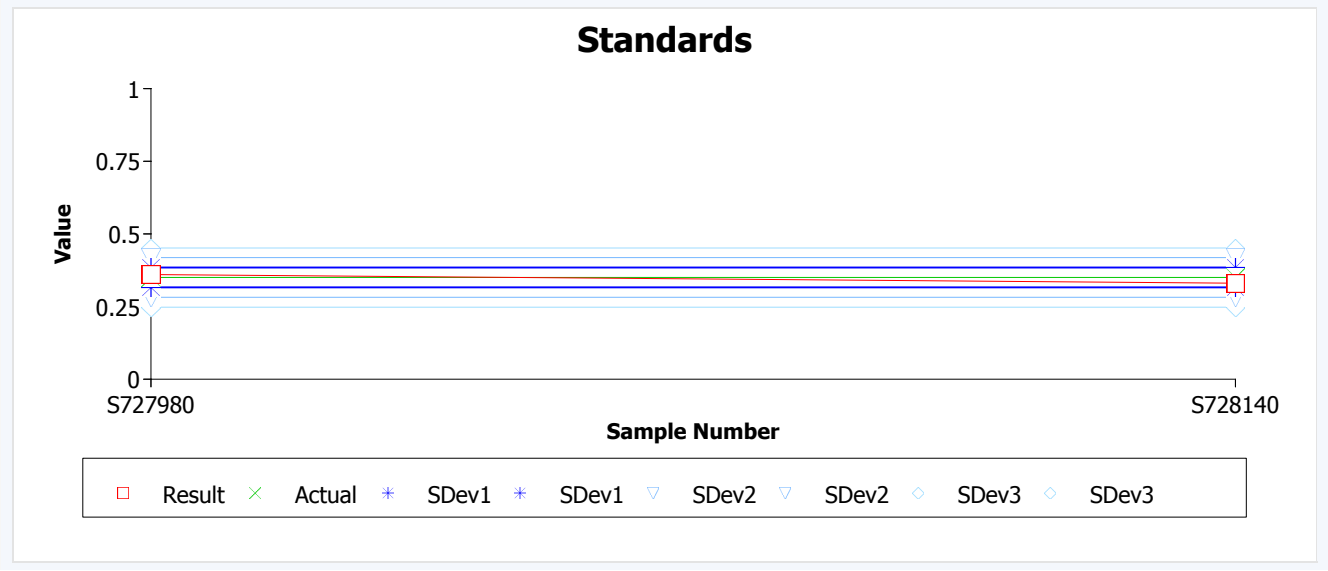
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S727980		2016-Qiqavik Fiel VO16143599	2016-09-20		ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.9700	0.17000000	3		
S728140		2016-Qiqavik Fiel VO16143599	2016-09-20		ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.8900	0.17000000	3		



Bi	ppm	MEMS61										
S727980		2016-Qiqavik Fiel VO16143599	2016-09-20		ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3600	0.03400000	3		
S728140		2016-Qiqavik Fiel VO16143599	2016-09-20		ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3300	0.03400000	3		



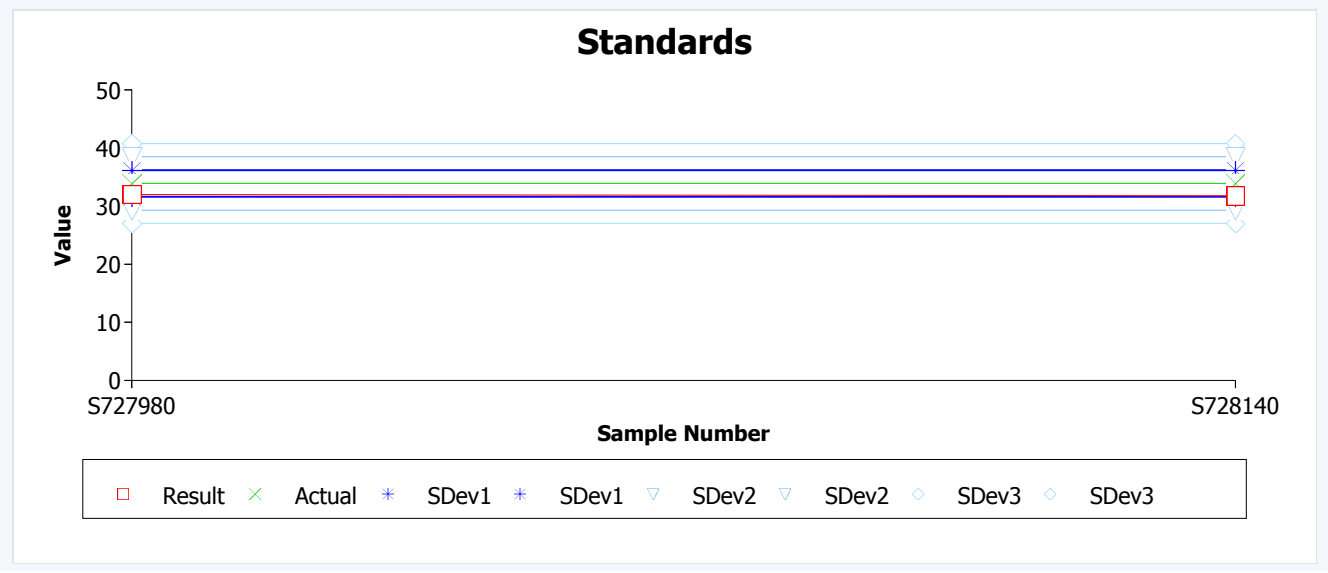
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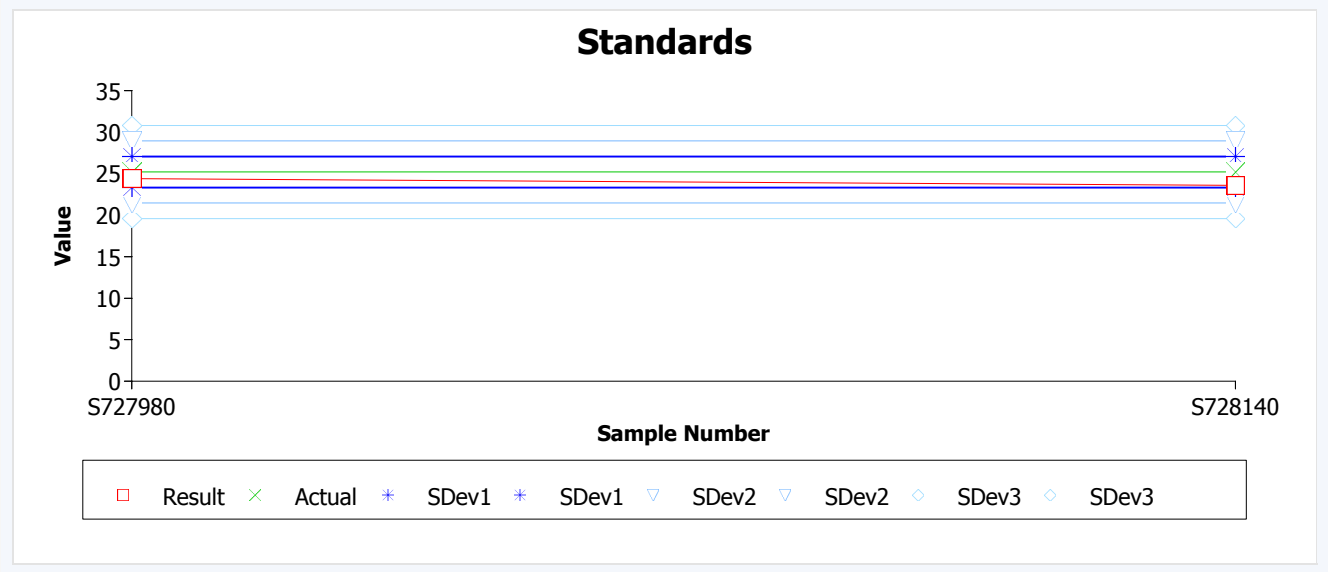
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S727980	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	32.0000	2.29000000	3			
S728140	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	31.8000	2.29000000	3			



Pb	ppm	MEMS61										
S727980	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	24.4000	1.87000000	3			
S728140	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	23.6000	1.87000000	3			



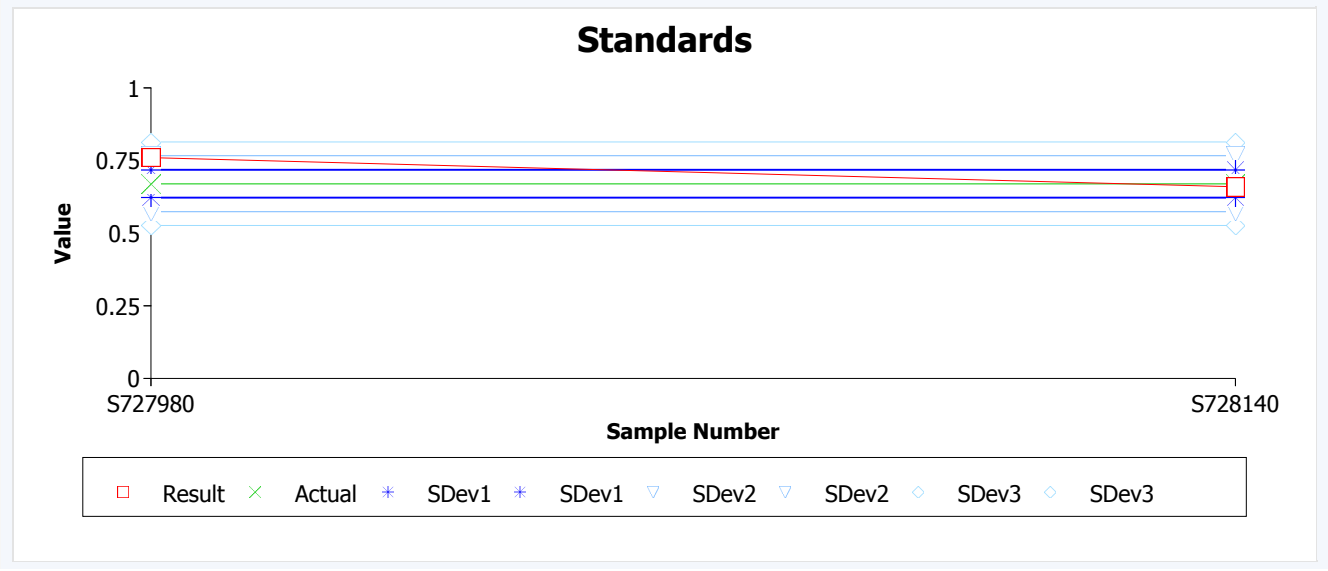
Oct 25, 2016

CONTROL CHARTS

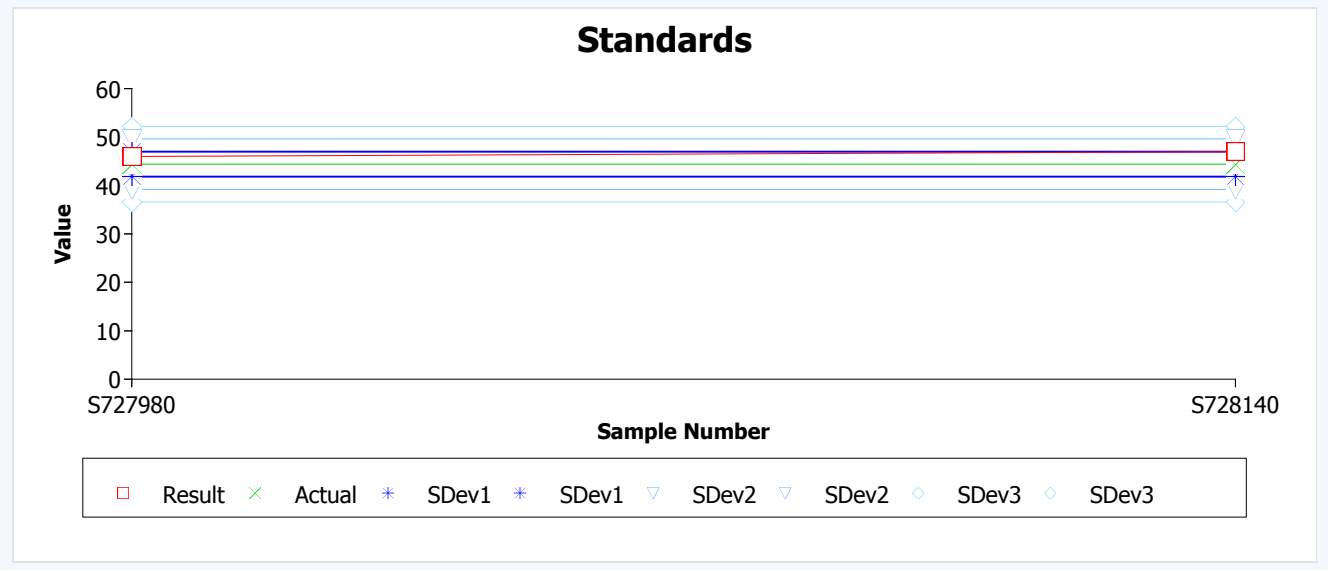
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S727980	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.7600	0.04800000	3			
S728140	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.6600	0.04800000	3			



Zn	ppm	MEMS61										
S727980	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	46.0000	2.60000000	3			
S728140	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	47.0000	2.60000000	3			



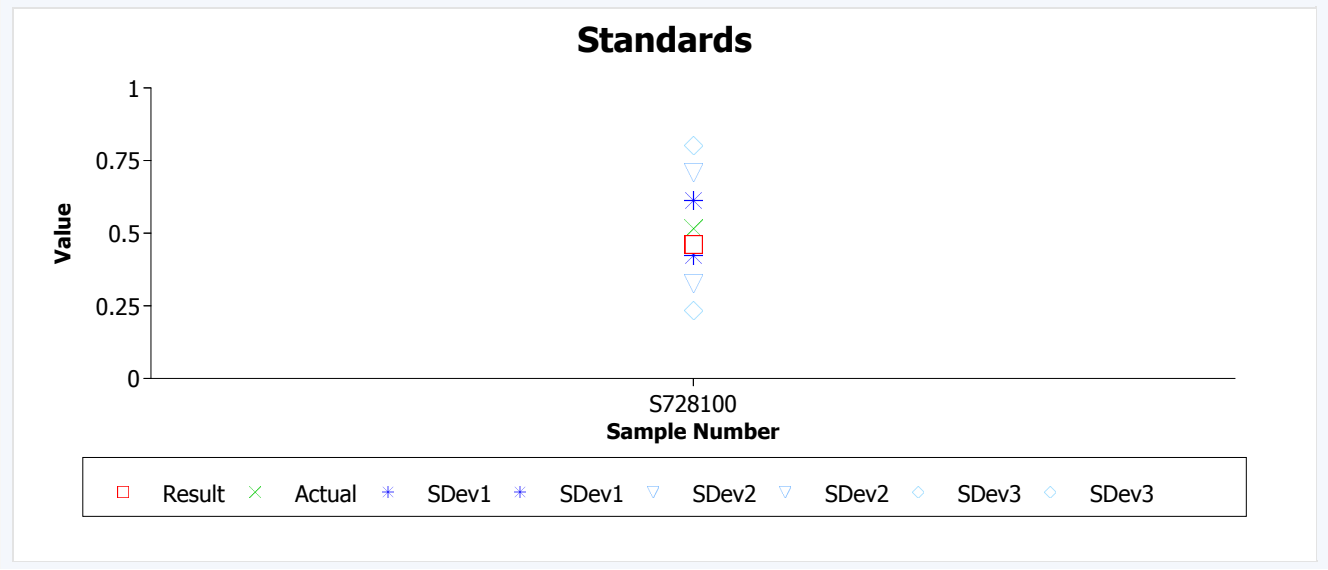
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CONTROL CHARTS

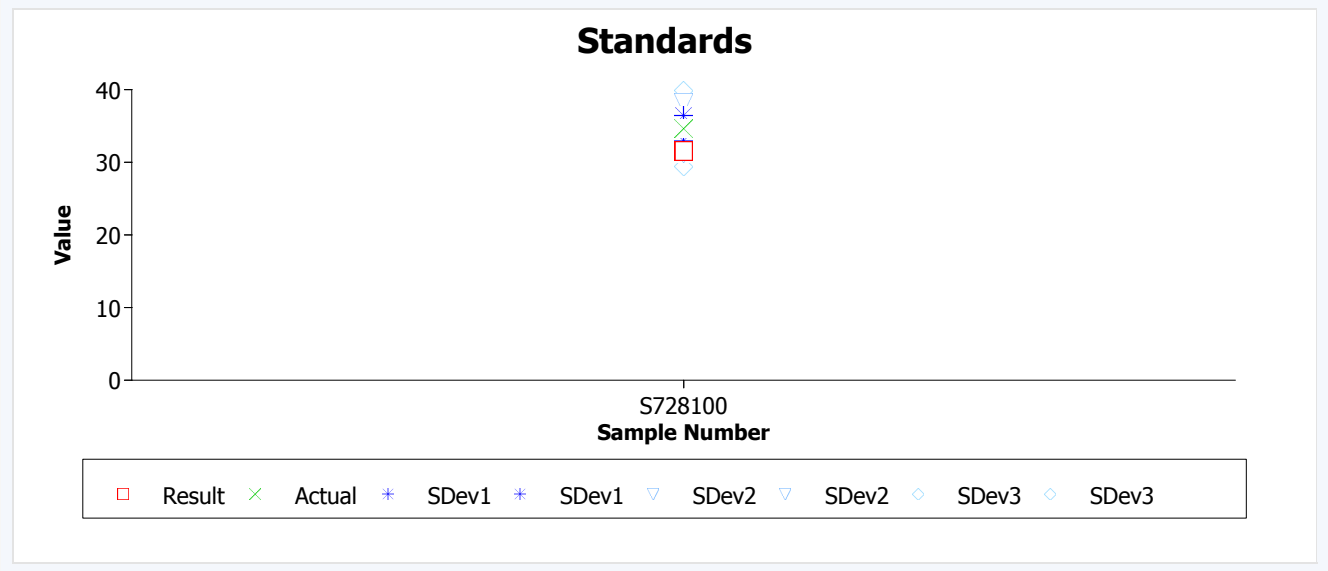
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Ag	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.4600	0.09500000	3			



As	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	31.6000	1.74000000	3			



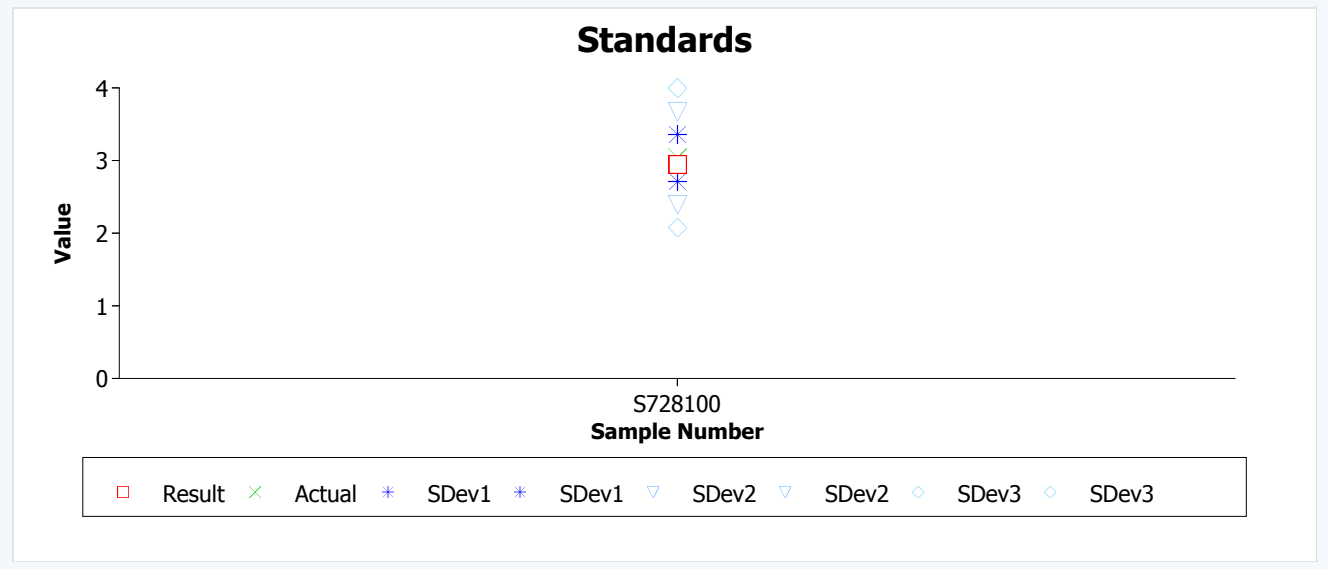
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CONTROL CHARTS

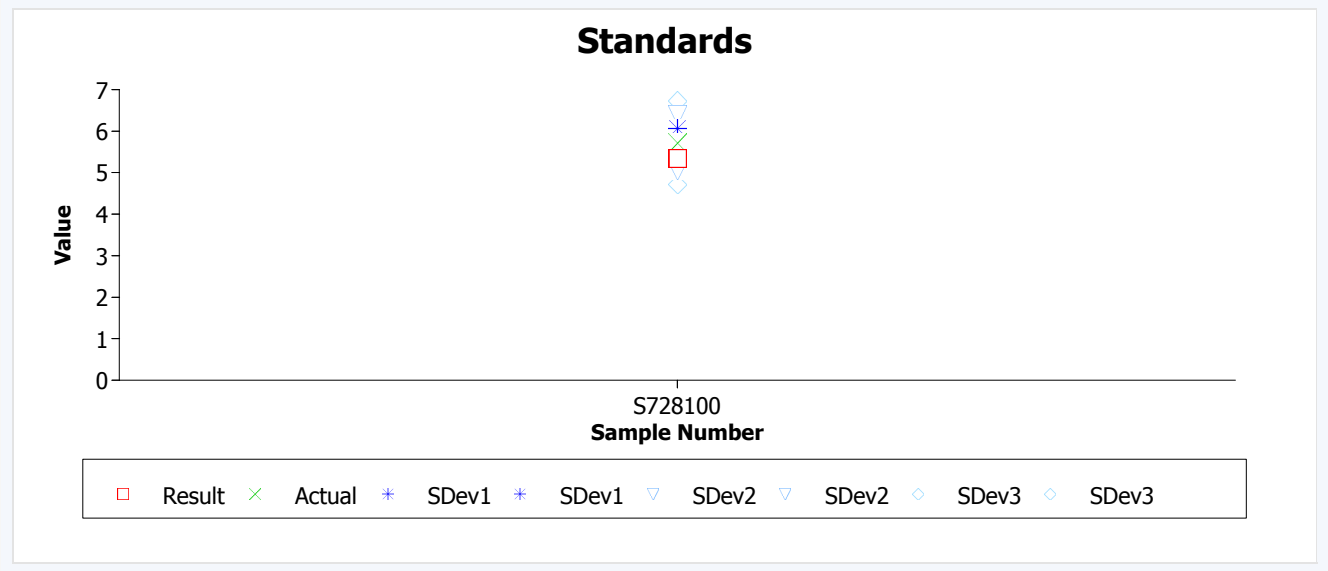
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Be	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:		3.0400	2.9500	0.32000000	3		



Bi	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:		5.7200	5.3500	0.33700000	3		



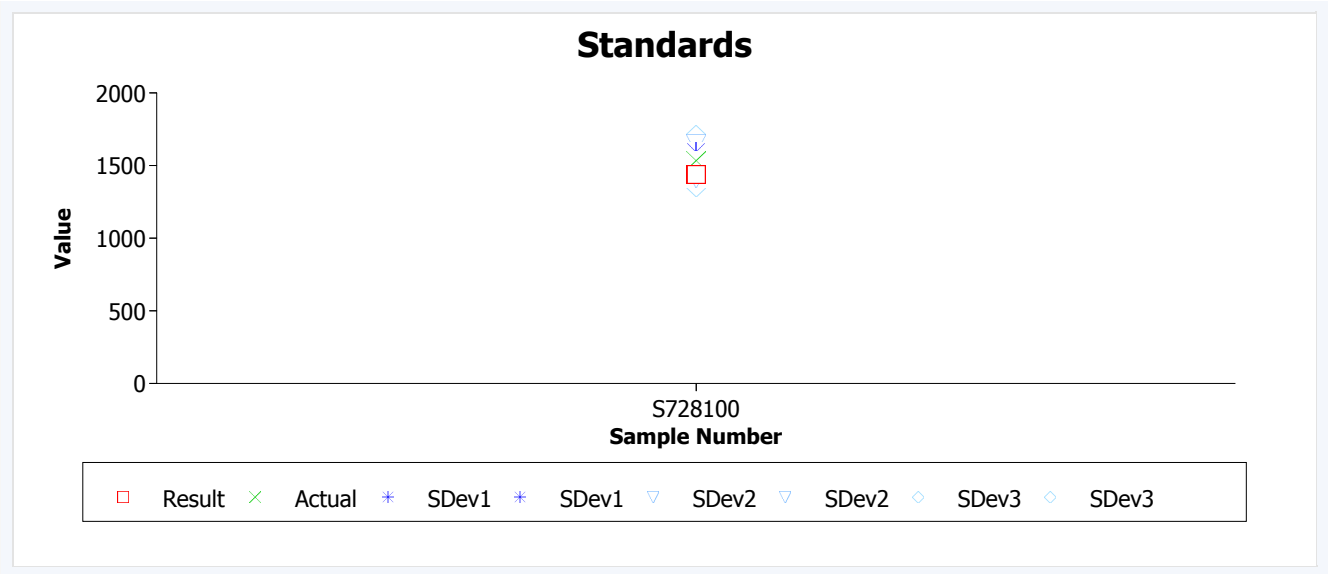
Oct 25, 2016

CONTROL CHARTS

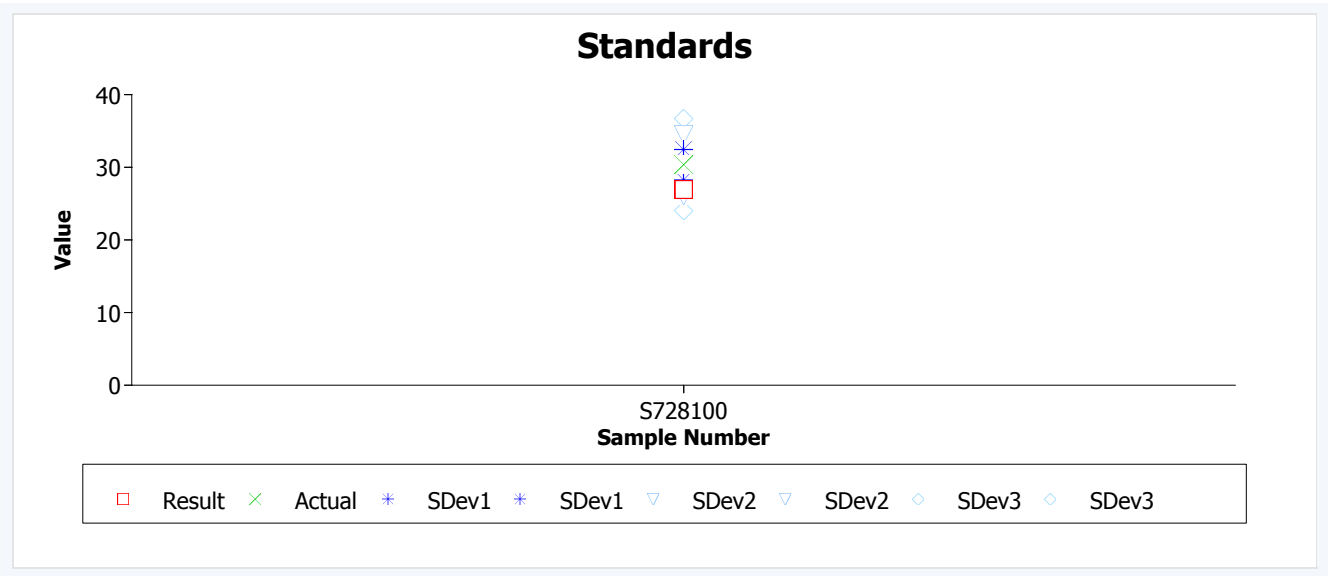
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Cu	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1440.0000	61.00000000	3			



Pb	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	27.0000	2.10000000	3			



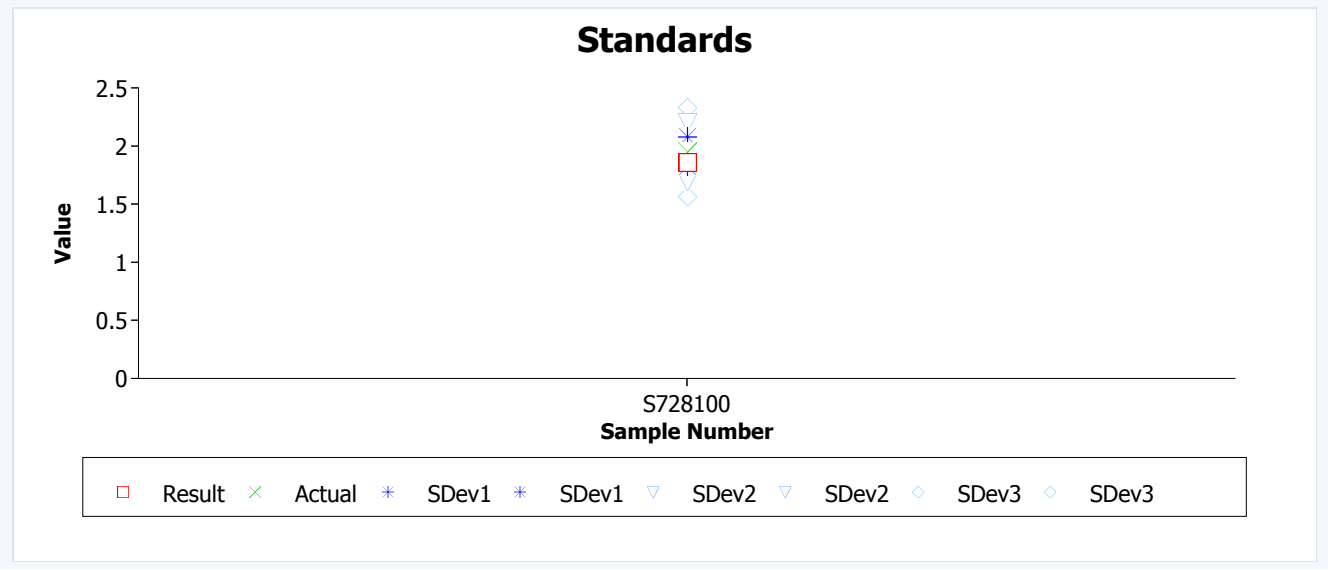
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CONTROL CHARTS

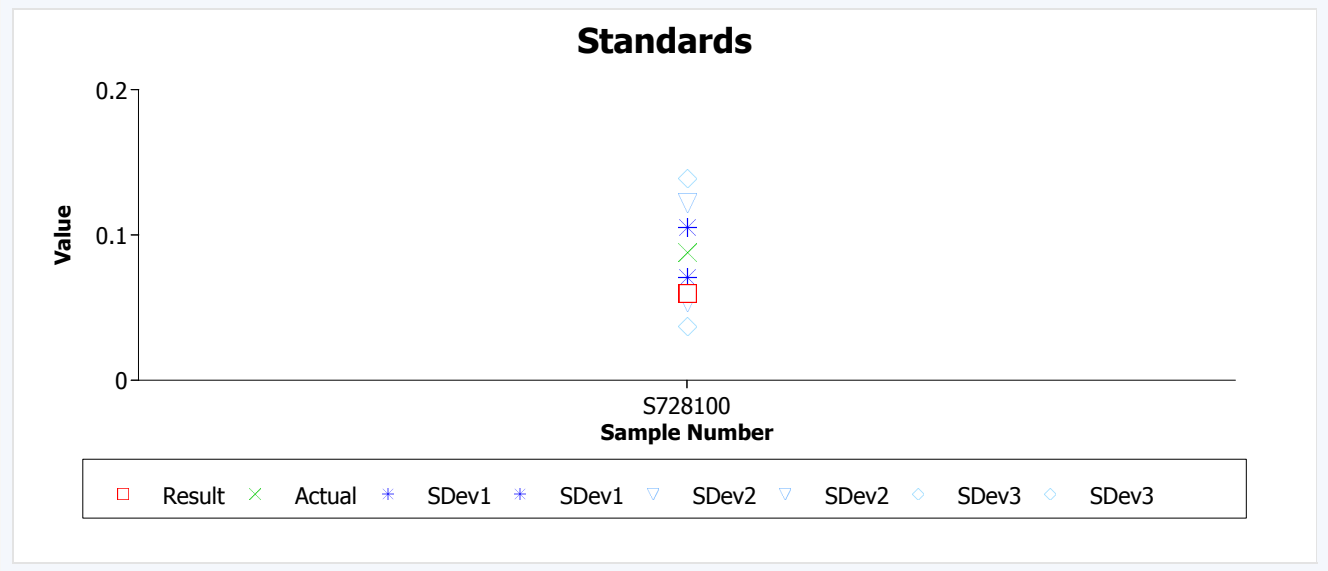
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Sb	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:		1.9500	1.8600	0.12800000	3		



Te	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:		0.0880	0.0600	0.01700000	3		



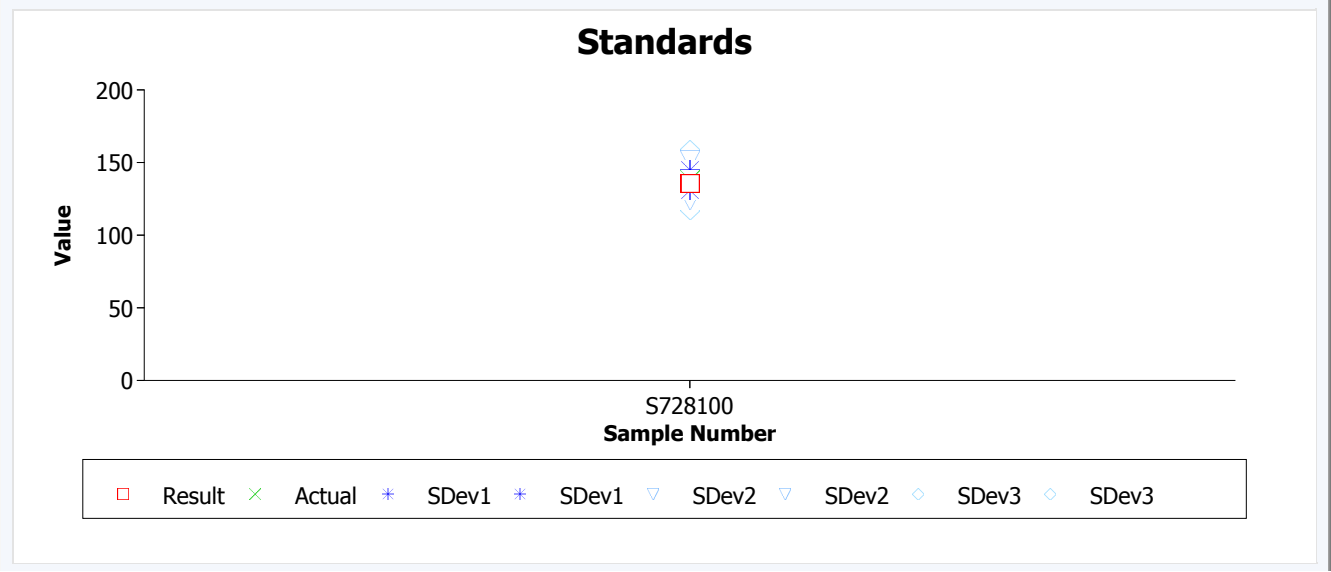
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Zn	ppm	MEMS61										
S728100	2016-Qiqavik Fiel	VO16143599	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	136.0000	7.00000000	3			



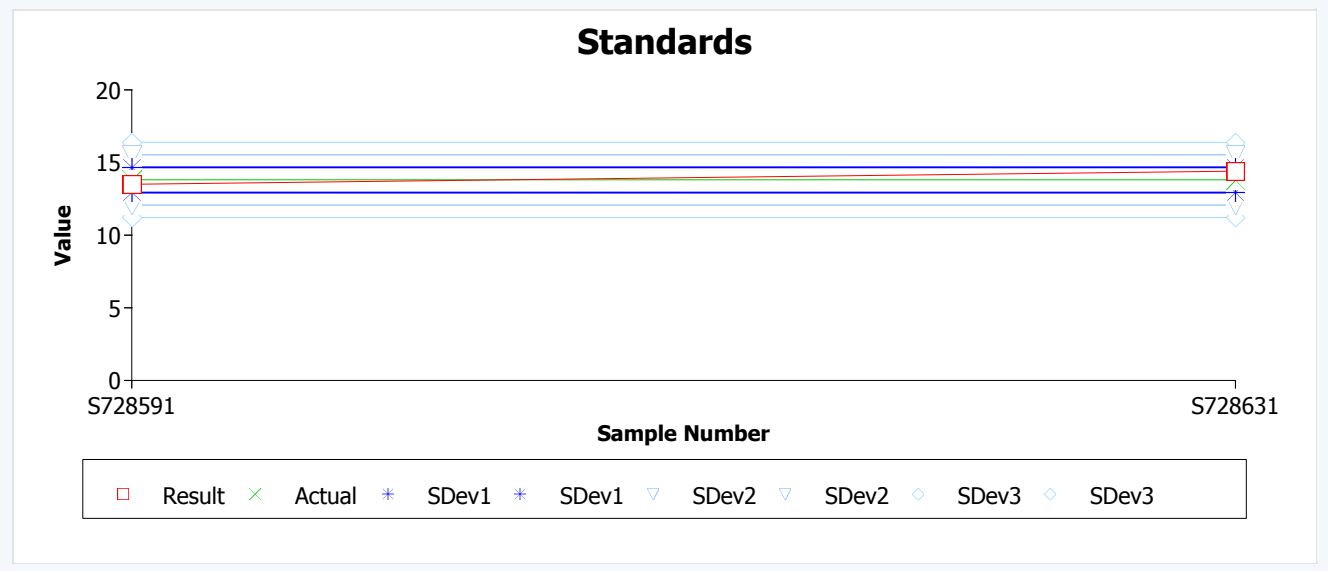
Oct 25, 2016

CONTROL CHARTS

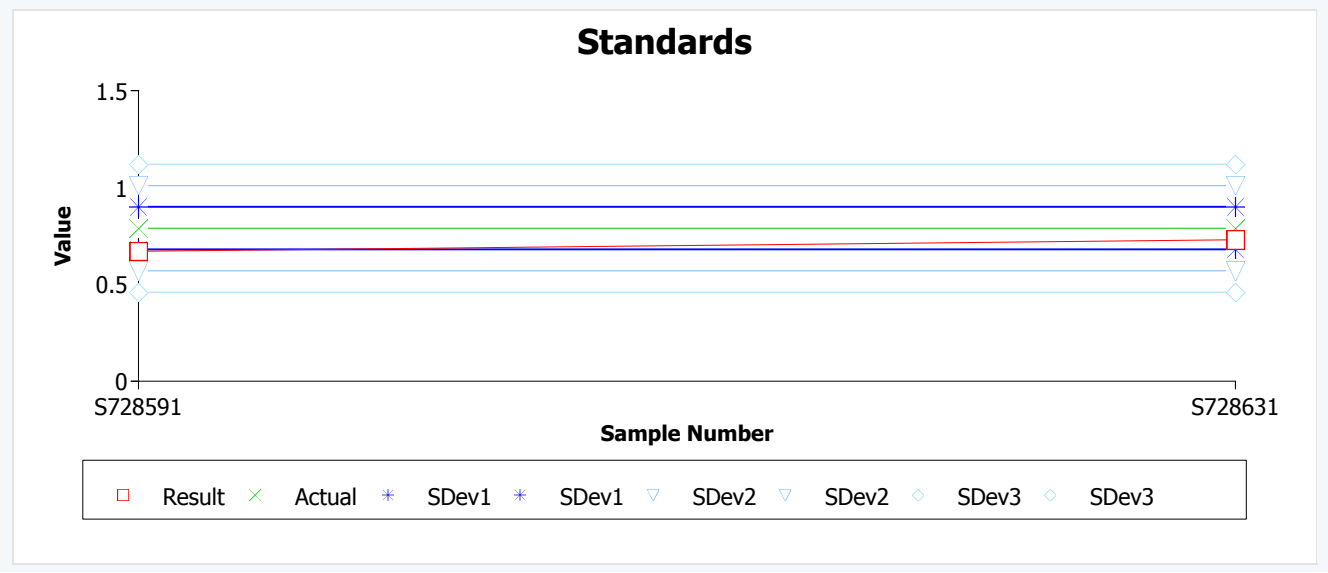
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

As	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	13.5000	0.86000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	13.8000	14.4000	0.86000000	3			



Be	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.6700	0.11000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.7900	0.7300	0.11000000	3			



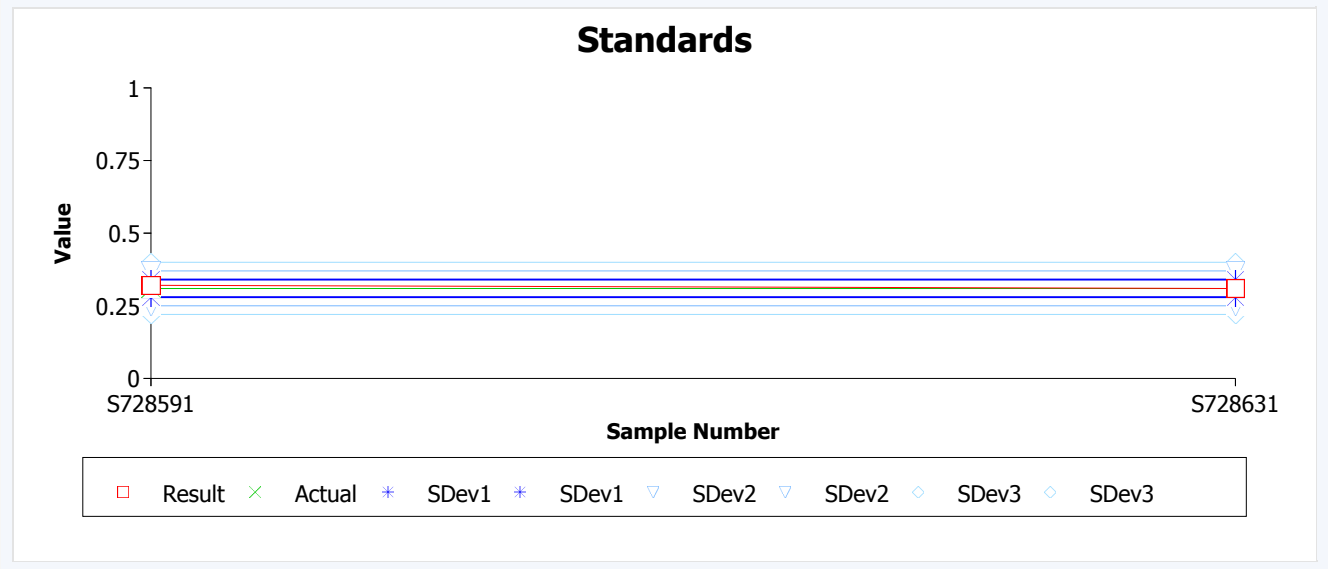
Oct 25, 2016

CONTROL CHARTS

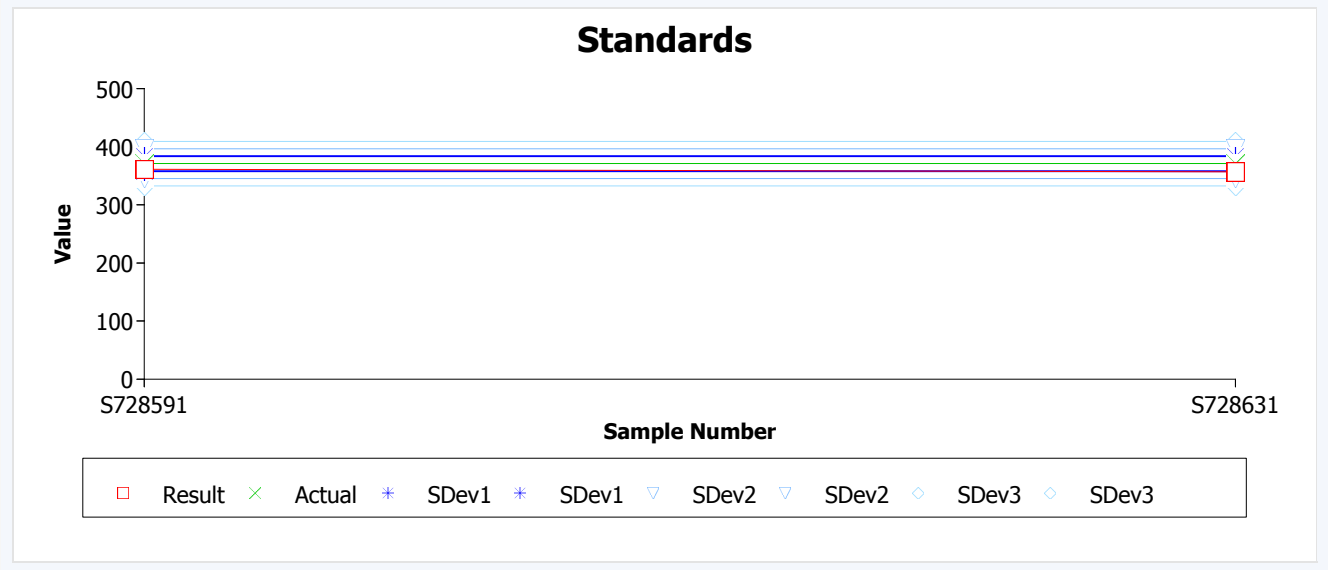
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Bi	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3200	0.03000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3100	0.3100	0.03000000	3			



Cu	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	361.0000	12.80000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	371.0000	357.0000	12.80000000	3			



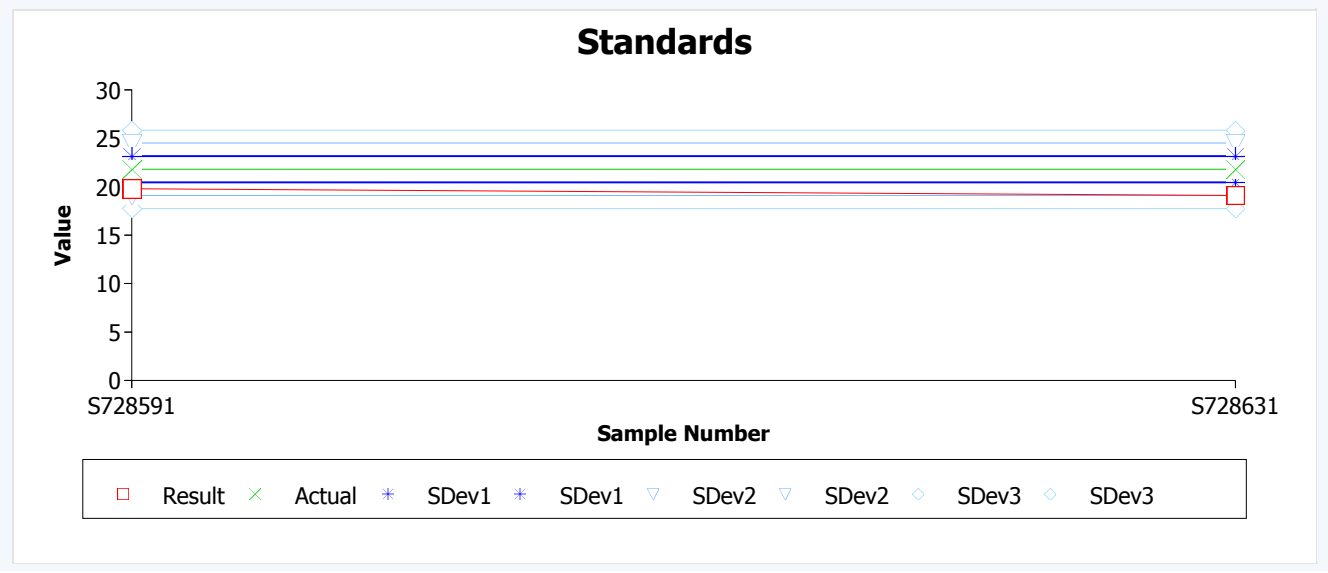
Oct 25, 2016

CONTROL CHARTS

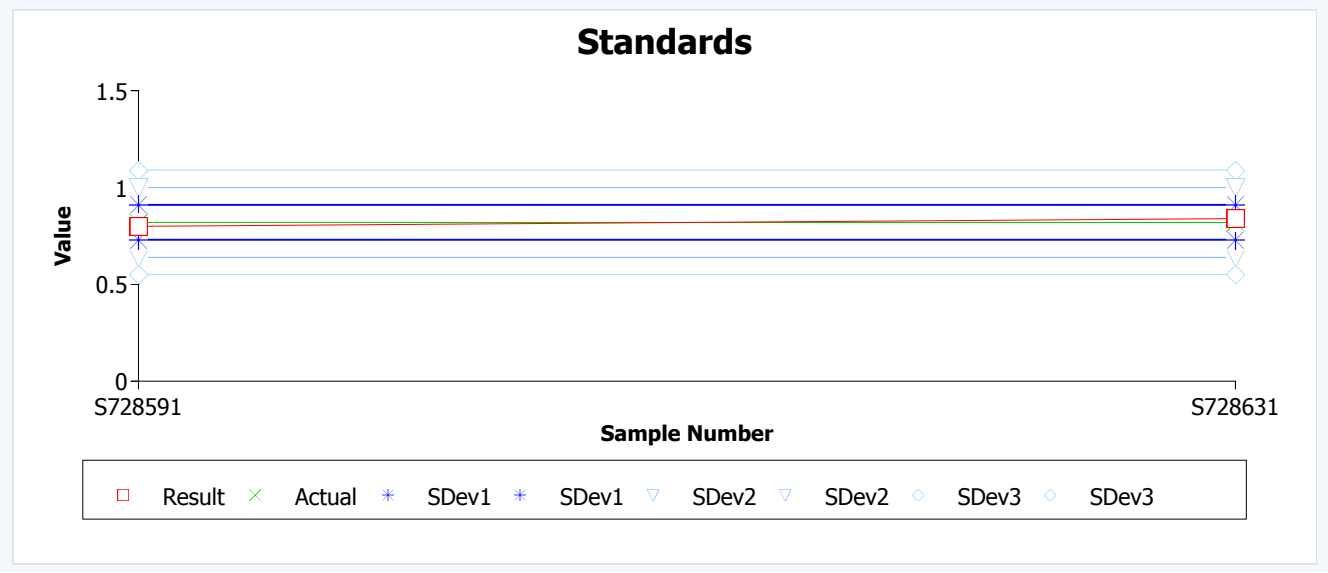
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Pb	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	19.8000	1.35000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	21.8000	19.1000	1.35000000	3			



Sb	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8000	0.09000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.8200	0.8400	0.09000000	3			



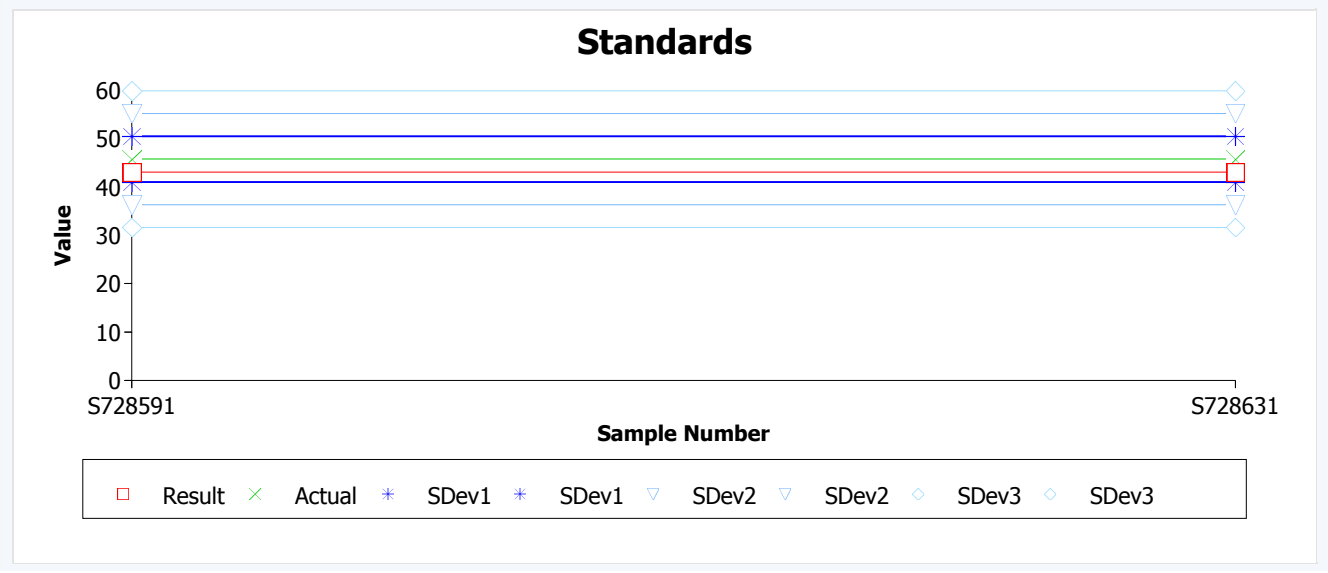
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS45D

Zn	ppm	MEMS61										
S728591	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			
S728631	2016-Qiqavik Fiel	VO16143601	2016-09-16	ALS CHEMEX	Qiqavik ICP22 - MS6:	45.7000	43.0000	4.70000000	3			



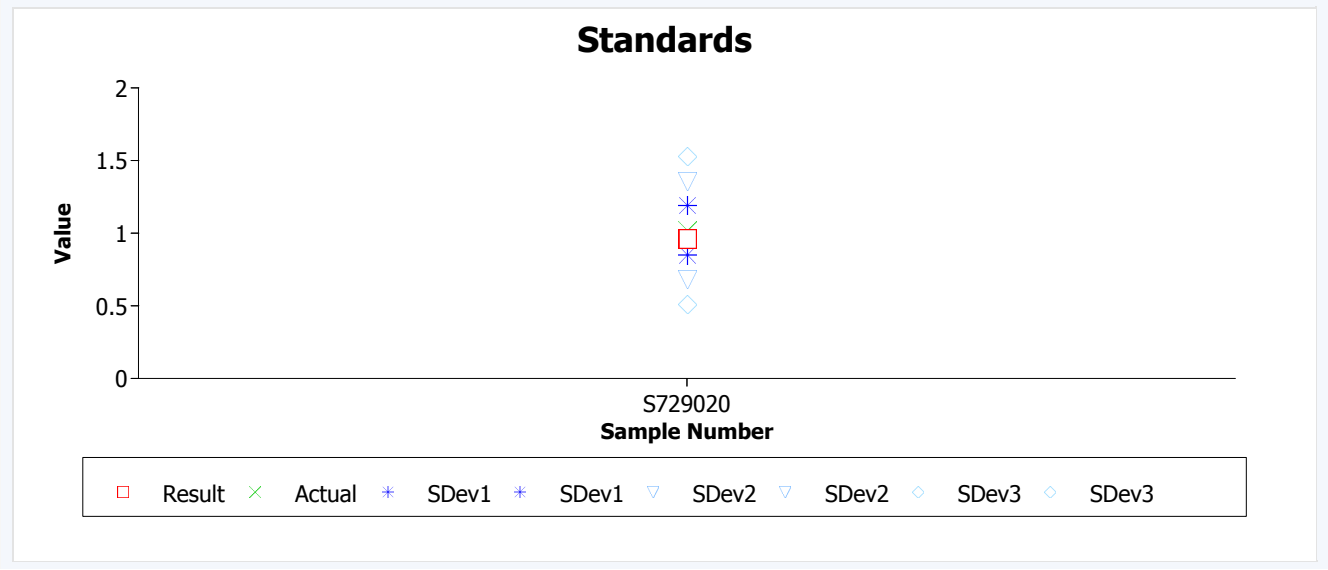
Oct 25, 2016

CONTROL CHARTS

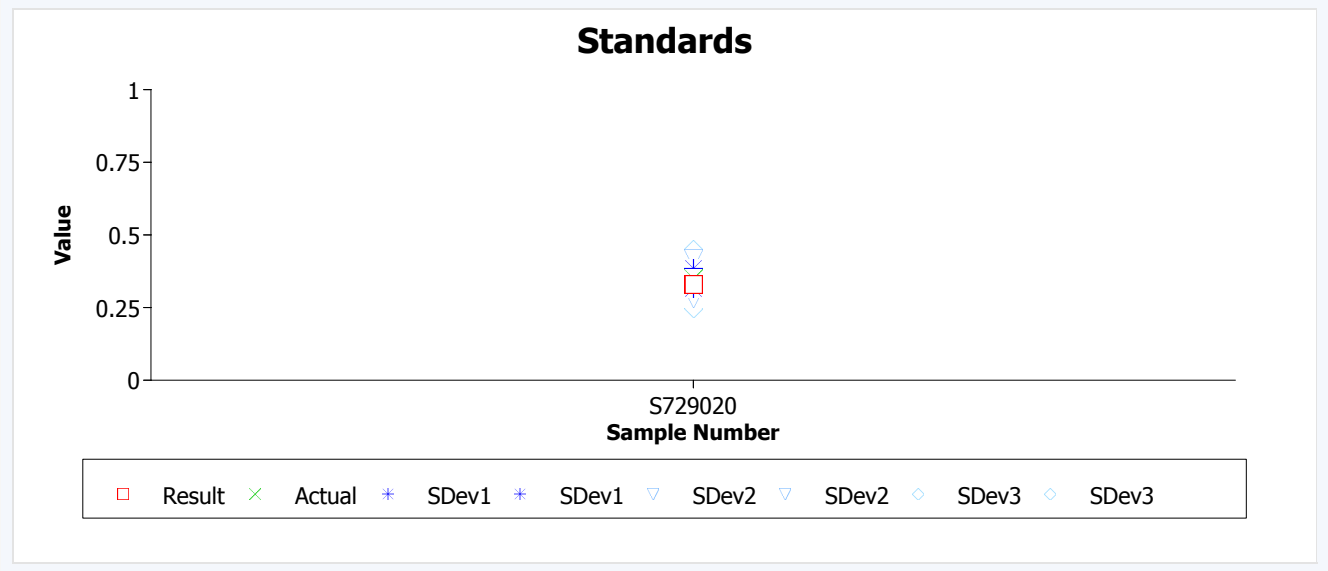
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Be	ppm	MEMS61										
S729020		2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.0200	0.9600	0.17000000	3		



Bi	ppm	MEMS61										
S729020		2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.3500	0.3300	0.03400000	3		



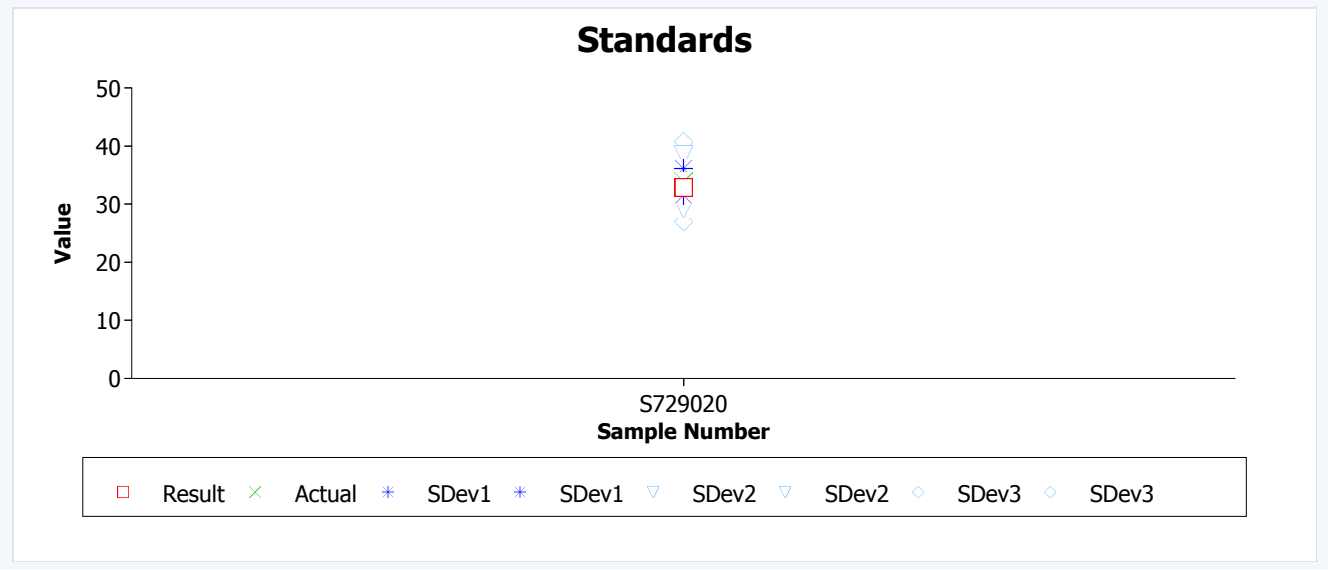
Oct 25, 2016

CONTROL CHARTS

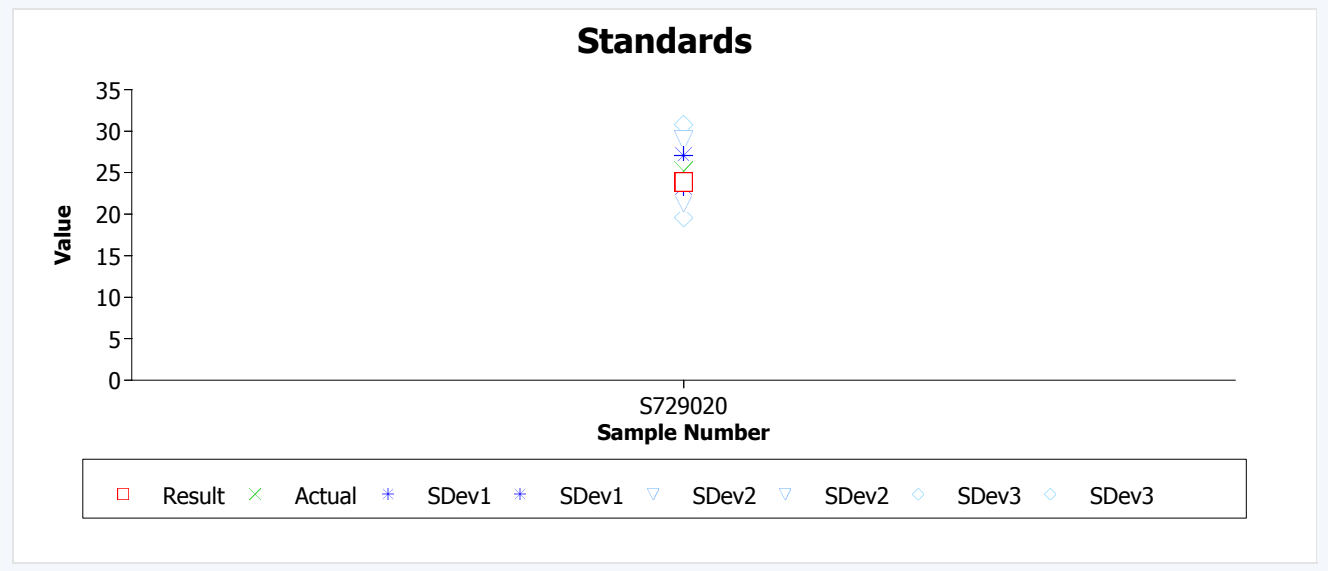
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Cu	ppm	MEMS61										
S729020	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	33.9000	32.9000	2.29000000	3			



Pb	ppm	MEMS61										
S729020	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	25.2000	23.9000	1.87000000	3			



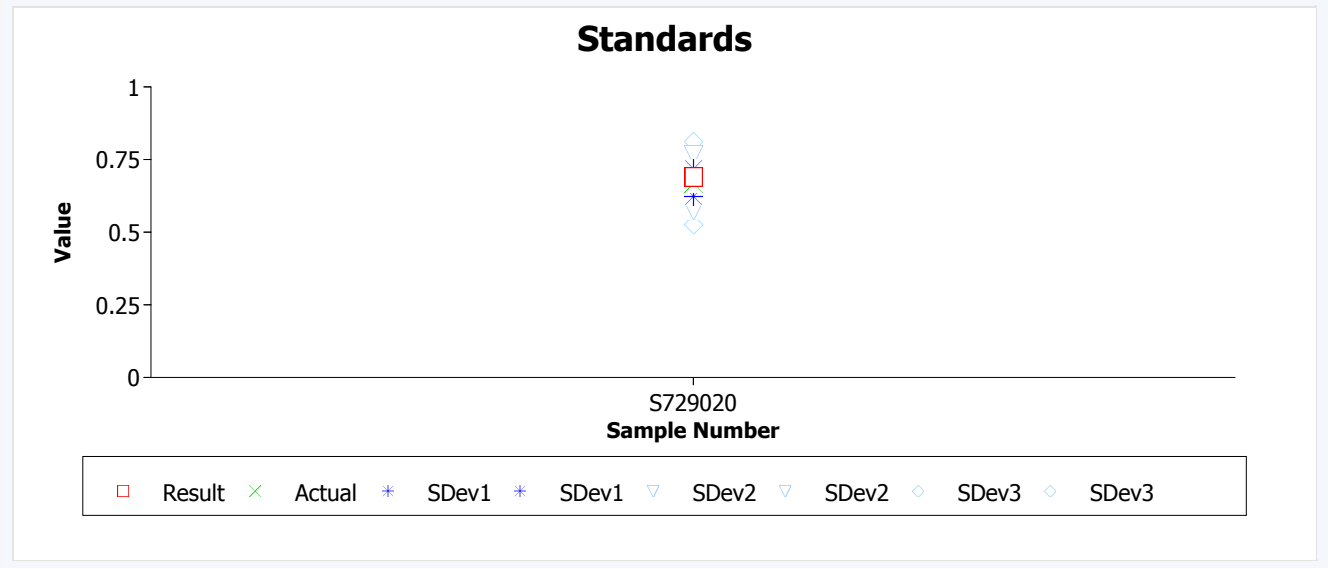
Oct 25, 2016

CONTROL CHARTS

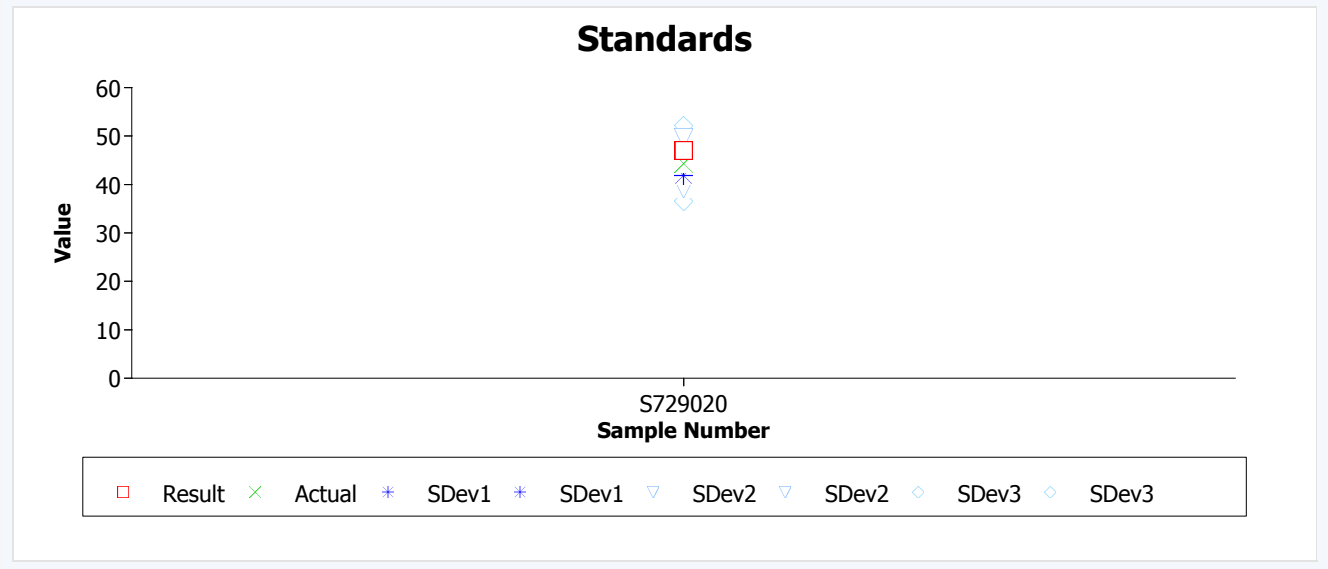
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS25A

Sb	ppm	MEMS61										
S729020	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.6700	0.6900	0.04800000	3			



Zn	ppm	MEMS61										
S729020	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	44.4000	47.0000	2.60000000	3			



OREAS905

Ag	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5900	0.09500000	3			

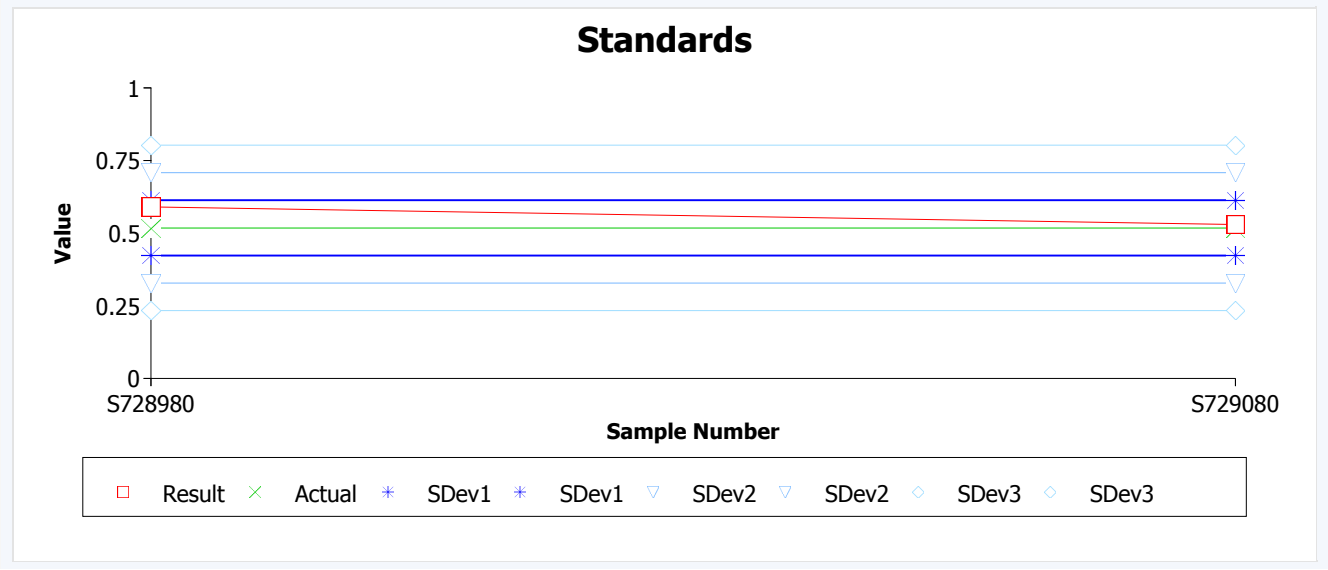
Oct 25, 2016

CONTROL CHARTS

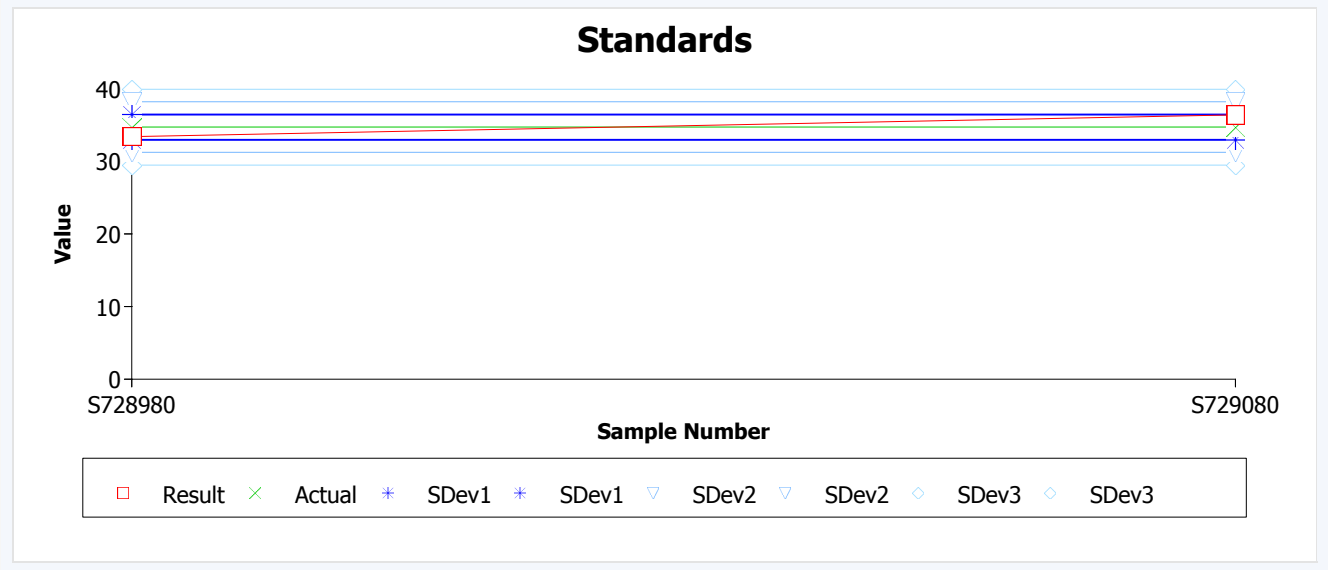
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Ag	ppm	MEMS61										
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.5180	0.5300	0.09500000	3			



As	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	33.4000	1.74000000	3			
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	34.7000	36.4000	1.74000000	3			



Be	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.1000	0.32000000	3			

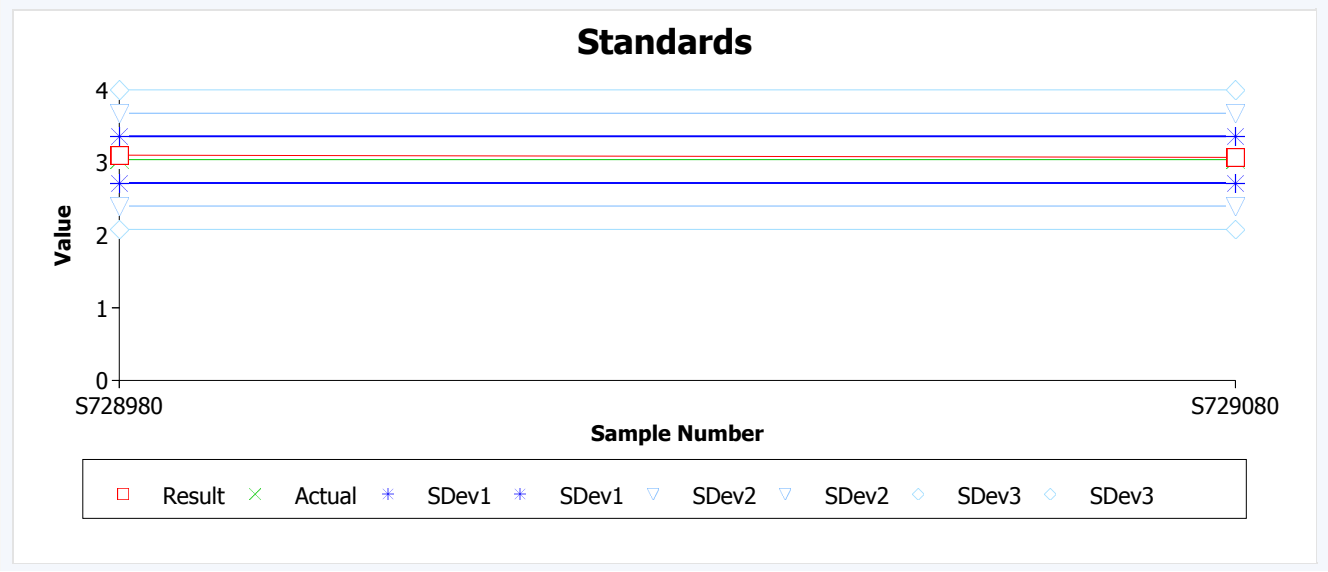
Oct 25, 2016

CONTROL CHARTS

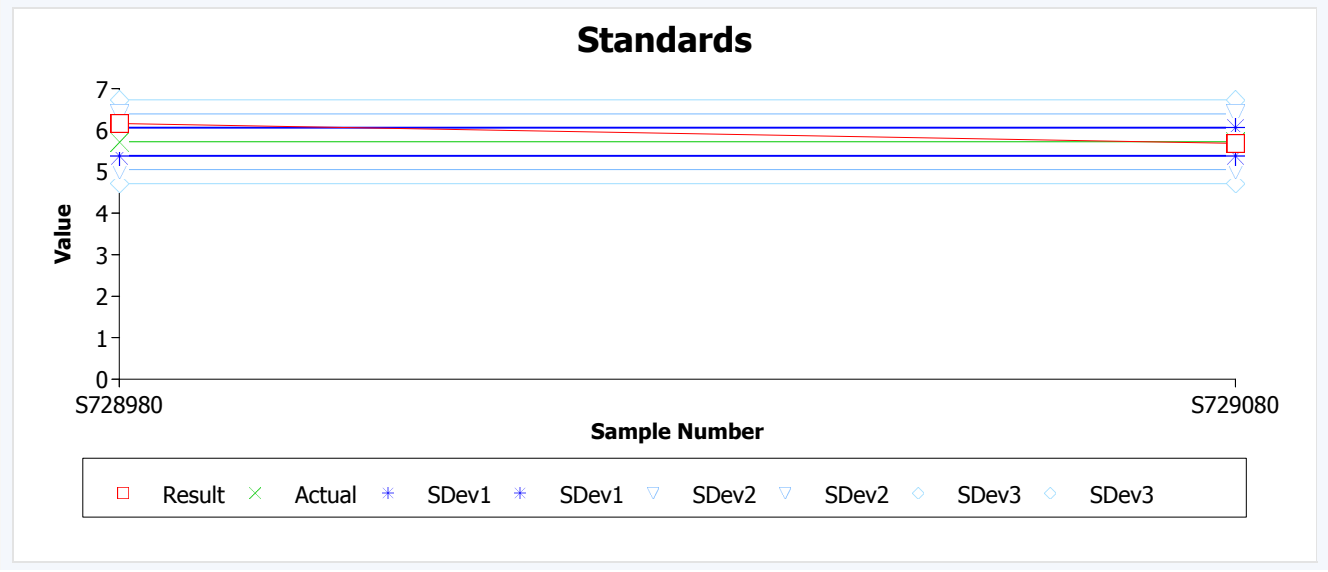
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Be	ppm	MEMS61										
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	3.0400	3.0700	0.32000000	3			



Bi	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	6.1600	0.33700000	3			
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	5.7200	5.6800	0.33700000	3			



Cu	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1510.0000	61.00000000	3			

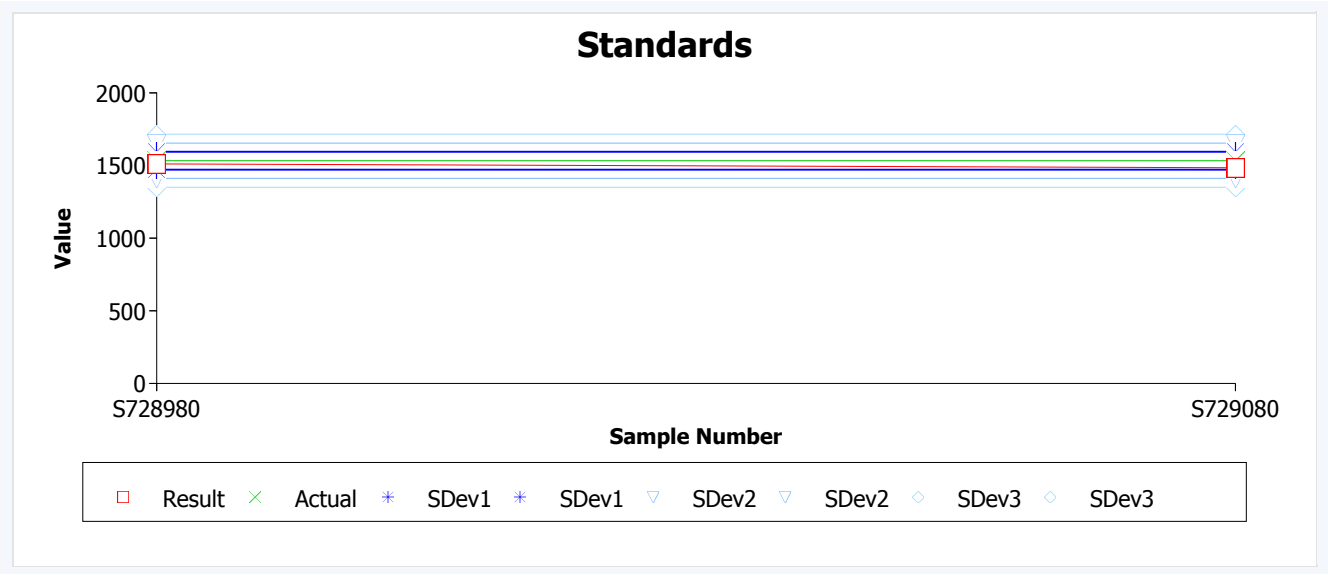
Oct 25, 2016

CONTROL CHARTS

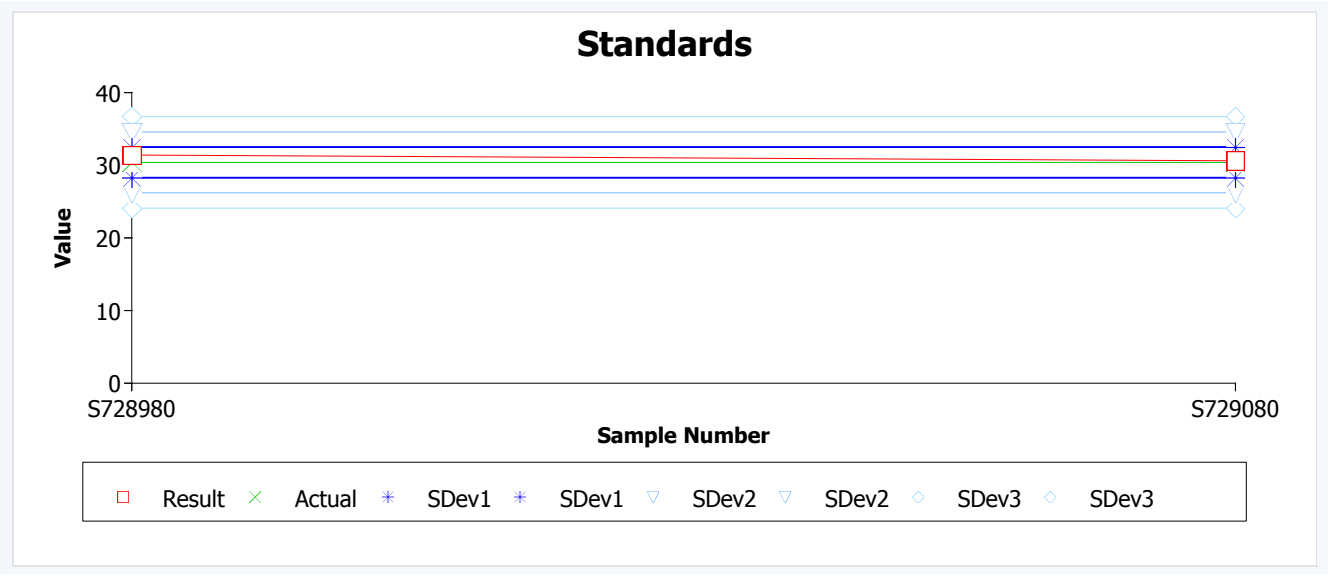
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Cu	ppm	MEMS61										
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1533.0000	1485.0000	61.00000000	3			



Pb	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	31.4000	2.10000000	3			
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	30.4000	30.6000	2.10000000	3			



Sb	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.2800	0.12800000	3			

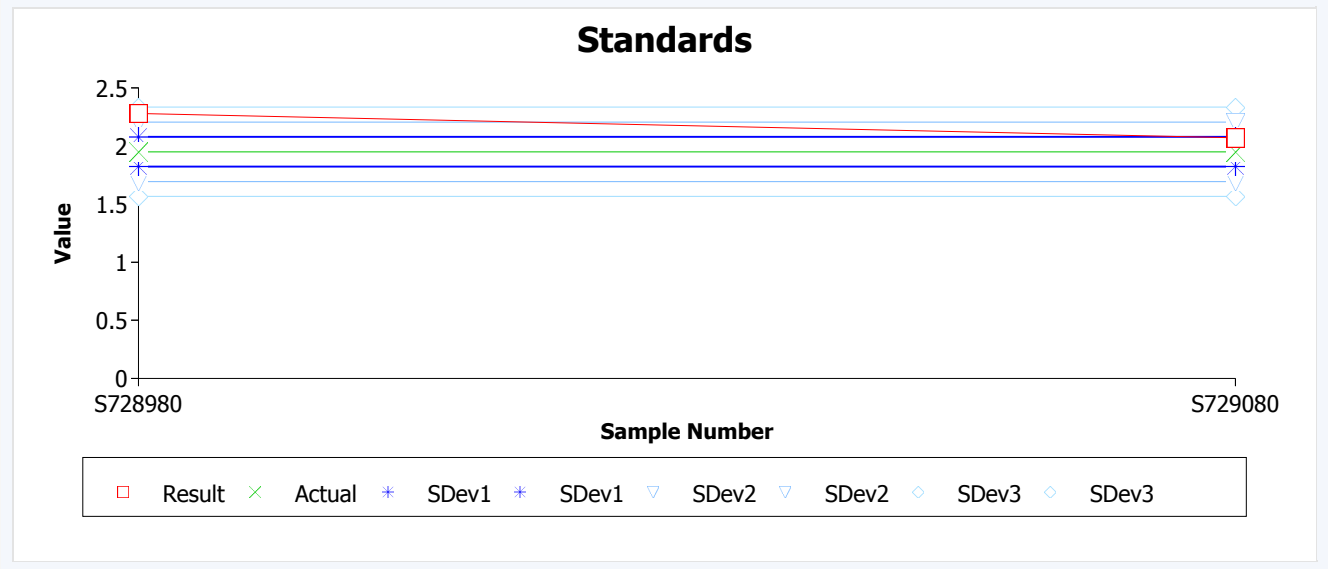
Oct 25, 2016

CONTROL CHARTS

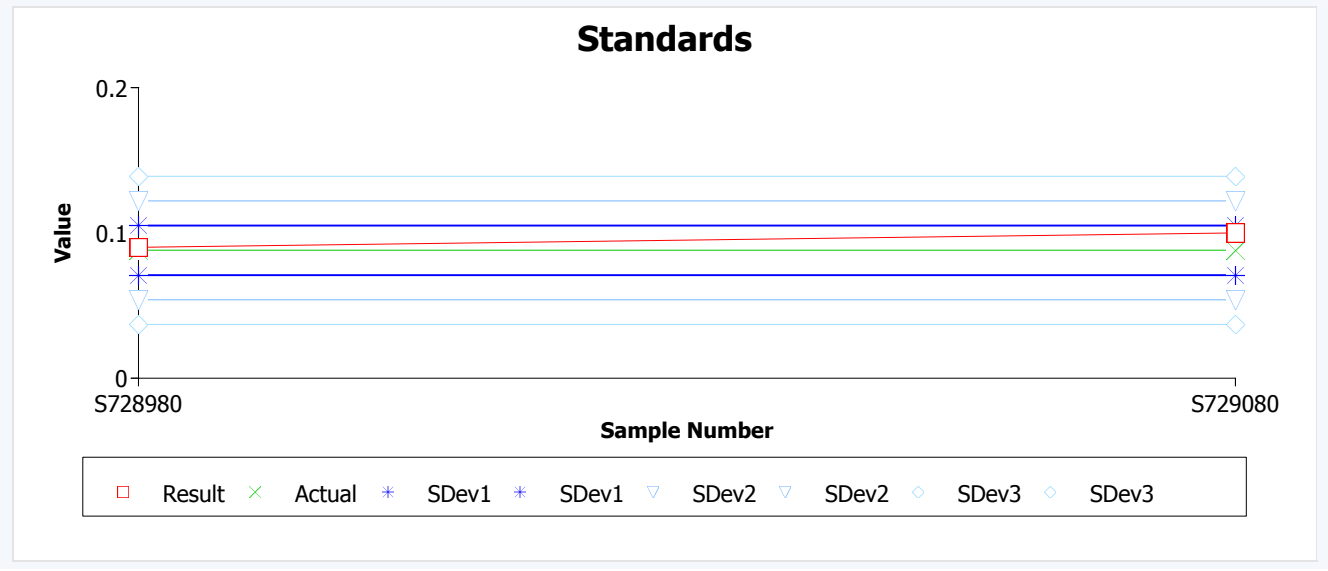
Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Sb	ppm	MEMS61										
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	1.9500	2.0700	0.12800000	3			



Te	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.0900	0.01700000	3			
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	0.0880	0.1000	0.01700000	3			



Zn	ppm	MEMS61										
S728980	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	143.0000	7.00000000	3			

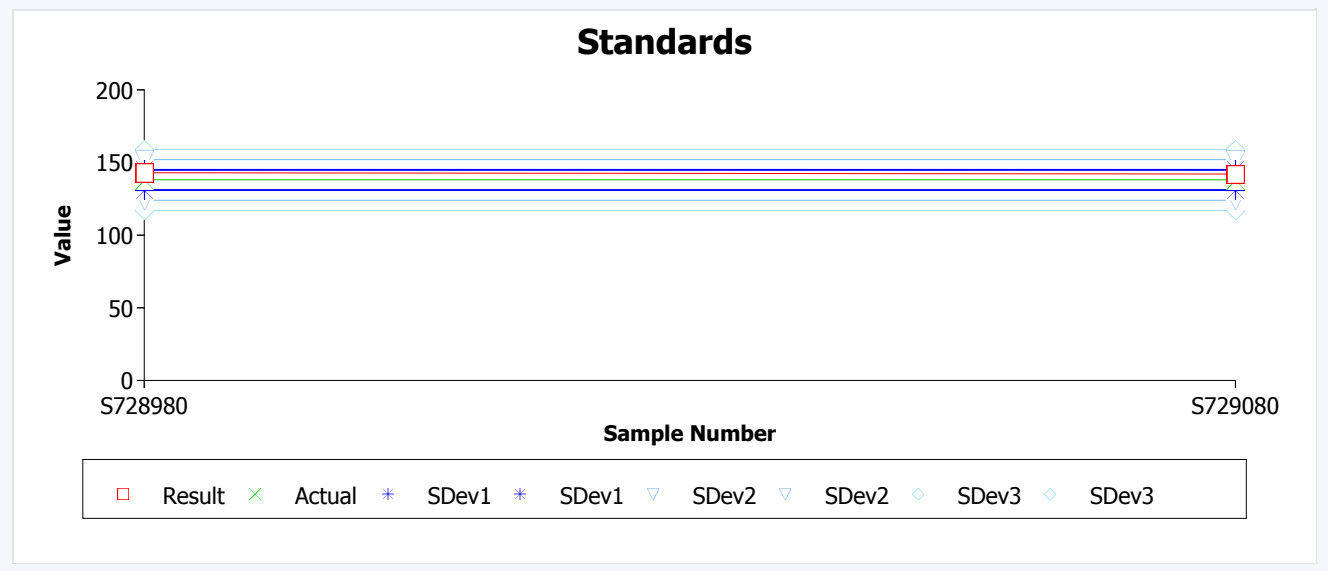
Oct 25, 2016

CONTROL CHARTS

Sample Number	Hole Number	Lab Ref Number	Analyzed	Shipped	Laboratory	Lab Package	Actual Value	Result	Std Dev	Fail No	Minimum	Maximum
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OREAS905

Zn	ppm	MEMS61										
S729080	2016-Qiqavik Fiel	VO16143603	2016-09-20	ALS CHEMEX	Qiqavik ICP22 - MS6:	138.0000	142.0000	7.00000000	3			



**Au (ppm) Results for the Analysis
of 3694 Blanks**

