

GM 72637

Prospection work, HSP project

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Énergie et Ressources
naturelles

Québec 

IOS Services Géoscientifiques inc.

**PROSPECTION WORK
HSP PROJECT, QUEBEC
SPRING 2021**

Presented to

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Go Metals Corporation

By

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INTRODUCTION

In the spring of 2021, a crew of five (5) persons was sent to Havre Saint-Pierre for a period of 16 days to conduct a prospection/reconnaissance program on the HSP project. The project is located northwest of the La Romaine 4 electric dam and targets Ni-Cu-Co-PGE mineralization hosted in, or related to, the La Romaine anorthosite complex.

Several historic showings were re-sampled and several more occurrences of semi-massive to massive sulphides were found, all related to mafic and ultramafic dykes. The current report provides information regarding the visited locations, assay results and mineralogy of selected massive sulphides samples.

TERMS OF REFERENCE

IOS Services Géoscientifiques Inc. has been contacted by Mr Jacob Verbass, V.P. Exploration, on behalf of Go Metals Corporation, to prepare, manage and execute a prospection program on their HSP property located 140 km north of the town of Havre Saint-Pierre, Quebec. The mandate included all the required logistic (i.e. accommodation, helicopter, meals, etc.), staff and the implementation of quality control for the assays. Supplementary to field work, sulphide mineralogy was also requested for selected samples.

The observations from field work are provided in a series of annexes and assays as certificate provided by the selected lab (ALS). The mineralogy will be presented as ARTSection certificates in the annexed report.

IOS has no interest or partnerships with Go Metals Corp., other than a consulting-contracting agreement. IOS is an independent entity and is not financially involved in the process of acquiring or developing this project. The current report is not written in accordance to NI-43-101 and shall not be used for financial purposes.

PROPERTY DESCRIPTION

LOCATION AND ACCESS

The property is located Quebec, more specifically in the Côte-Nord (North Shore) administrative region, 145 km north of the town of Havre Saint-Pierre (NTS Maps 12M05 and 12M12; **figure 1**). The La Romaine 4 hydro dam is located 17 km southeast of the property. Two relatively large lakes, Garnier and Rougemont, are respectively located in the center and northeast of the property. La Romaine River flows approximately 2 km south and west of the property.

The road leading to the La Romaine 4 dam is the only road located in the vicinity of the property. A trail that roughly follows the hydropower line that connects La Romaine 3 and 4 to the Montagnais transfer station is located approximately 10 km west of the property. However, since both these road and trail are located south and west of the property, the only access is by air. The main airport in the area is located in Havre Saint-Pierre and there is a fueling station for helicopter located at Camp Mista (La Romaine 3). Despite flooding due to the hydro dam, the property cannot be accessed by watercraft.

LAND TENURE

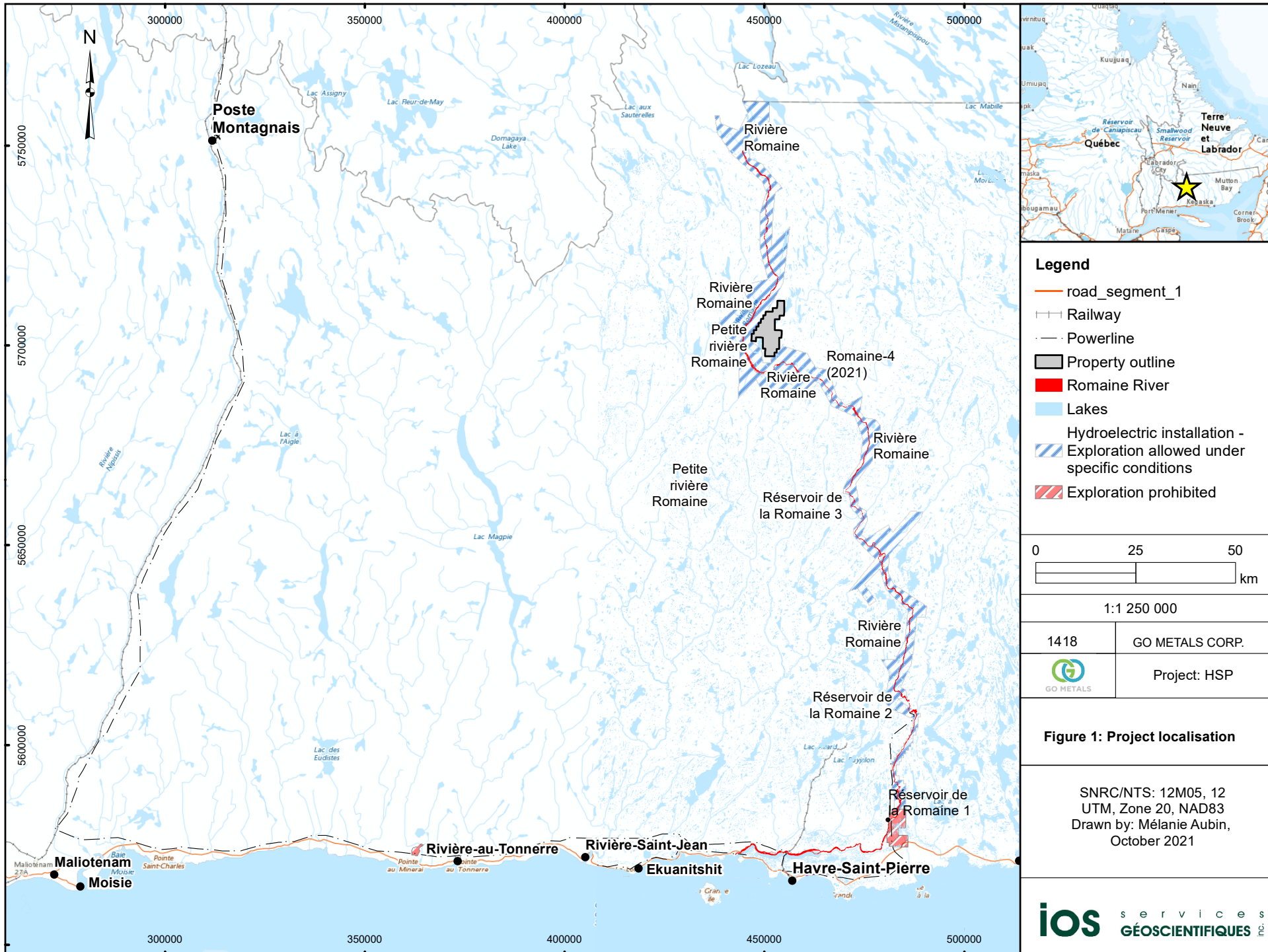
The property is composed of 104 contiguous maps designated claims (**appendix 7; figure 2**) and covers a total area of 56.31 km². All the claims are 100% owned by Go Metals. The claims are not subjected to any restrictions regarding minerals exploration as they are located just outside the zone designated for the La Romaine hydro complex.

PREVIOUS WORK

The first geological survey in the area dates back to 1949 when Claveau and his crew (Claveau, 1949) mapped the shores of the La Romaine River, some tributaries and major lakes.

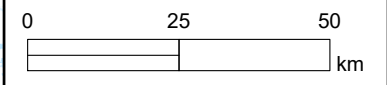
A more complete geological map was produced later by Franconi and Sharma (1973) and is still used as the reference geological map for the area.

The potential of Eastern Grenville, an area located north of the St. Lawrence River and East of an imaginary Chibougamau – Quebec City line, for base metals was done by



Legend

- road_segment_1
- Railway
- Powerline
- Property outline
- Romaine River
- Lakes
- Hydroelectric installation - Exploration allowed under specific conditions
- Exploration prohibited

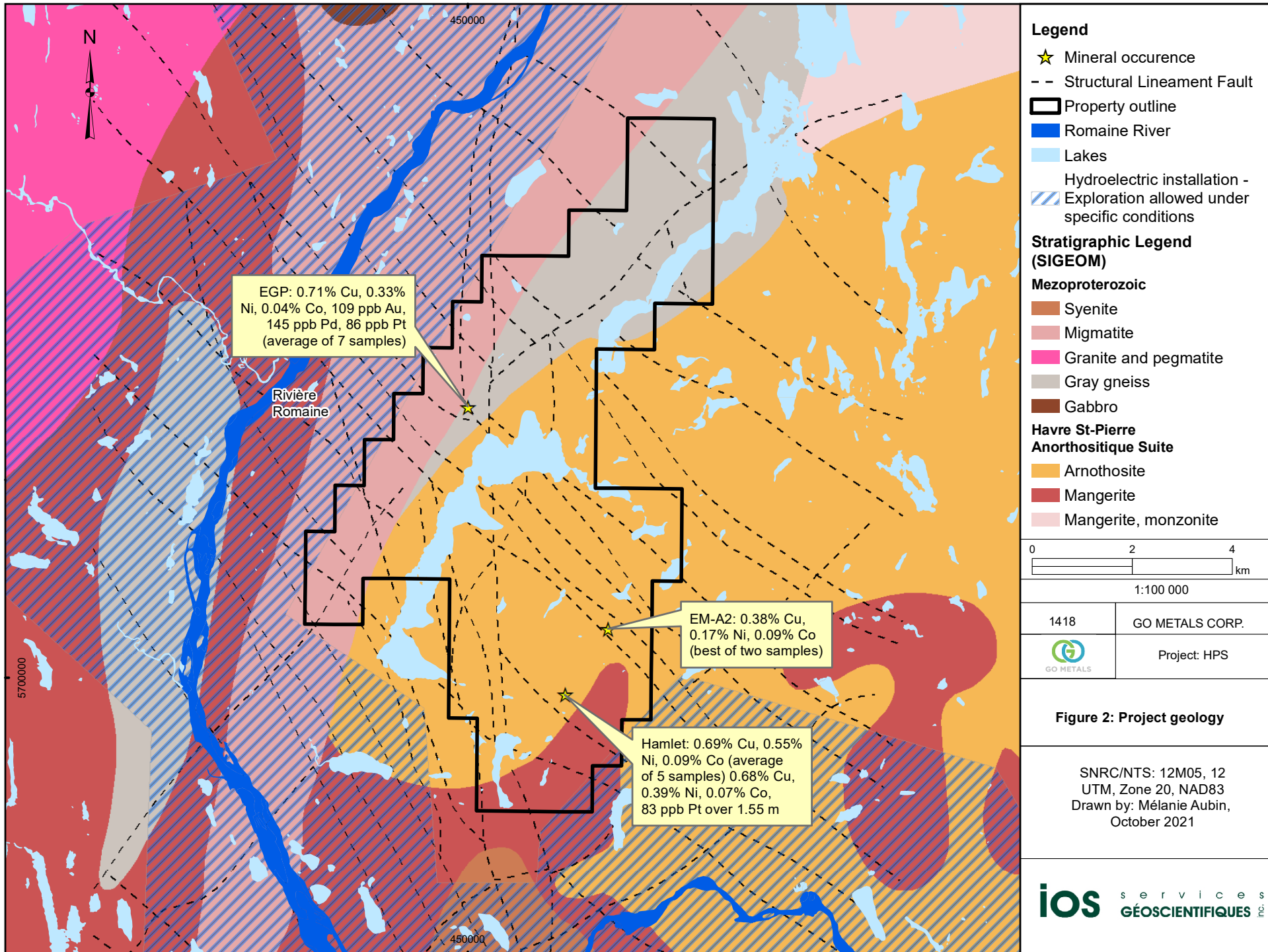


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|------|-----------------|
| 1418 | GO METALS CORP. |
| | Project: HSP |

Figure 1: Project localisation

SNRC/NTS: 12M05, 12 UTM, Zone 20, NAD83
 Drawn by: Mélanie Aubin,
 October 2021



EGP: 0.71% Cu, 0.33% Ni, 0.04% Co, 109 ppb Au, 145 ppb Pd, 86 ppb Pt (average of 7 samples)

Rivière Romaine

EM-A2: 0.38% Cu, 0.17% Ni, 0.09% Co (best of two samples)

Hamlet: 0.69% Cu, 0.55% Ni, 0.09% Co (average of 5 samples) 0.68% Cu, 0.39% Ni, 0.07% Co, 83 ppb Pt over 1.55 m



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|------|-----------------|
| 1418 | GO METALS CORP. |
| | Project: HPS |

Figure 2: Project geology

SNRC/NTS: 12M05, 12 UTM, Zone 20, NAD83
 Drawn by: Mélanie Aubin, October 2021

Wilson (1977). Because of the limited access and scarcity of data in the area covered by the HSP property, no real potential was highlighted.

Following the discovery of the Voisey's Bay in the 1990's, Soquem and Tiomin Resources flew Mag-EM surveys to identify mafic-ultrafic intrusions that could host Ni-Cu-PGE mineralization in several areas of the Grenville Province (Woolham, 1996). A few targets were highlighted on the Annic (NTS 12M05) zone which coincides with the current HSP project. Prospection on the target led to the discovery of several Ni-PGE showings (Bissonnette, 1997). These showings were sampled and in some cases soil surveys, trenching and blasting was carried on to evaluate the extents of the hosting mafic intrusions.

In 2019, an airborne magnetic and aeromagnetic survey was flown over the HSP project (Poon *et al.*, 2019). This survey was used to identify the targets that were investigated in the work reported here.

REGIONAL GEOLOGY

The HSP project sits in the allochthonous belt of the Grenville Province. The eastern part of the belt is composed of early to mid-proterozoic (1.09 to 0.985 Ga) metamorphosed and intrusive rocks. The most common lithological units are metasedimentary rocks, felsic intrusions, gabbros, gabbronorites and anorthosites.

The HSP property is located at the northwest tip of the Havre Saint-Pierre anorthositic complex. Two third of the property is underlain by an anorthosite and its associated mangerite. To the northwest, the anorthosite is in contact with a sliver of quartz-plagioclase-biotite (+/- hornblende) gneiss. A migmatite is located at the west border of the property. Several small-scale mafic intrusions, likely related to the anorthosite, are noted in geological reports (Franconi and Sharma, 1973; Bissonnette, 1997) but not located on available geological maps.

MINERAL OCCURRENCES

Only three mineral occurrences were known in the area and they were all found by Soquem and Tiomin in 1996 (Bissonnette, 1997).

The Hamlet showing (**figure 2**) is a 1.5 metre-thick Ni-Cu-Co-EGP bearing massive sulphide vein in a granulitic leucogabbro. The vein has a N320° orientation and is at an angle with the regional foliation. Channel sampling and assays yielded an average of 0.69% Cu, 0.39% Ni, 0.07% Co and 83 ppb over a 1.55 m.

The geometry of the EM-2A showing is undefined. A sample from a gneiss-hosted semi-massive sulphide vein yielded 0.38% Ni, 0.17% Cu and 0.09% Co. Traces of bornite and molybdenite are noted in addition to pyrrhotite (60-75%) and chalcopyrite (up to 2%).

The EGP showing is a series of mineralized pods and veins in a 500 m² outcropping area. The sulphides (Po-Cp-Py) are hosted in a gabbroic orthogneiss with some melanocratic parts. The average grade of seven (7) samples is 0.71% Cu, 0.33% Ni, 0.04% Co, 109 ppb Au and 231 ppb PGE (Pd and Pt).

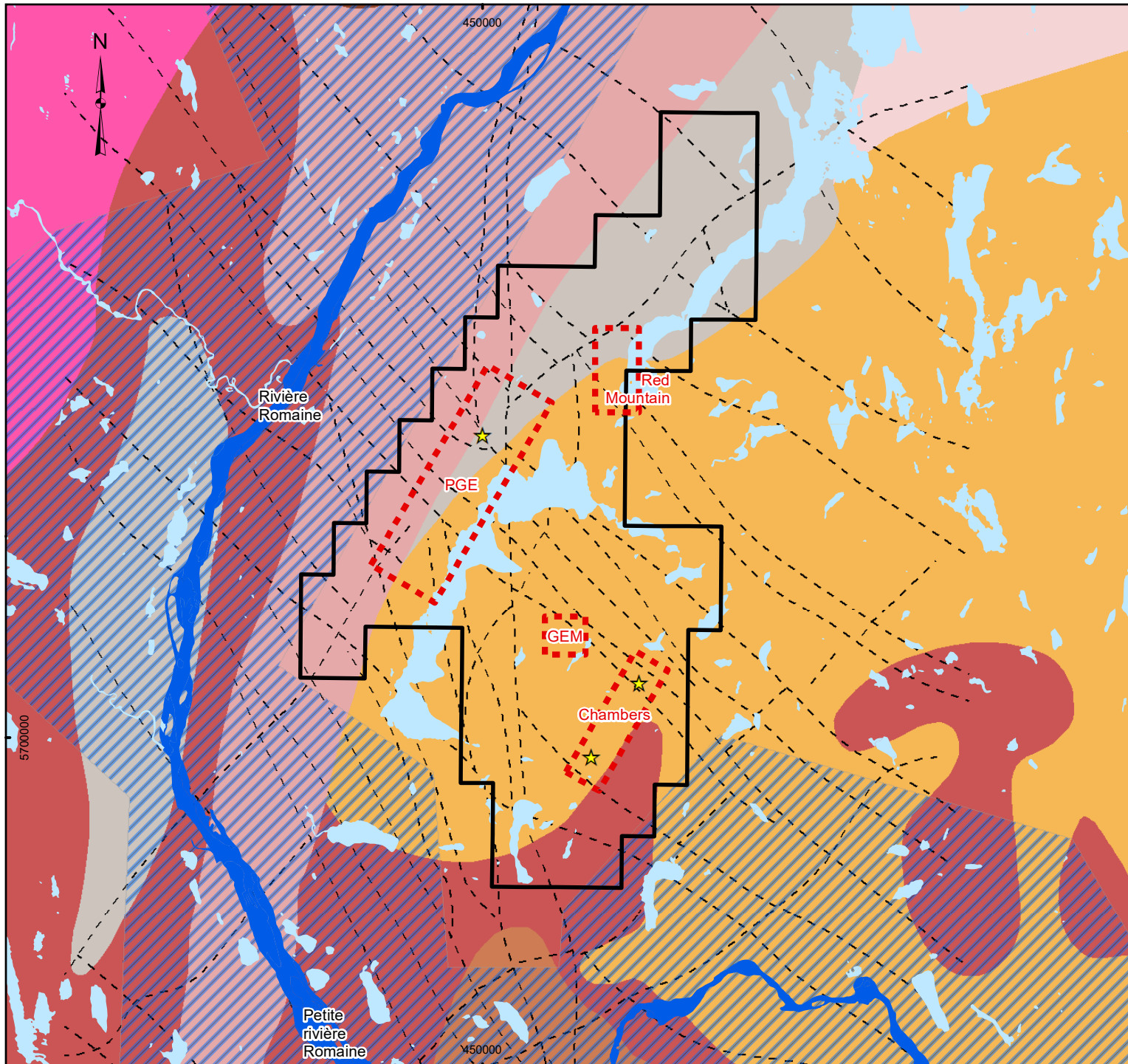
All these occurrences are interpreted as magmatic sulphides.

GEOLOGICAL MAPPING 2021

The 2021 mapping work focused on the historic occurrences and on conductors identified on an unpublished 2021 EM Survey. The work covered four (4) broad areas (**figure 3**): the Chamber zone where Hamlet and EM-A2 were found, the PGE zone with the EGP showings, the GEM and Red Mountain zones, both with newly discovered showings. The program was managed by Hugues Longuépée, P.Geo, and executed with the help of Adrien Boucher (G.I.T), Frédéric Lalancette (Eng. student) and Yan Desforges (Eng. student). Harley Slade (Caveman Exploration) acted as the client representative throughout the field work, from May 14th to 31th (see daily reports in **appendix 1**).

A total of thirty-nine (39) grab samples were collected for assays and sixty-eight (68) mapping stations were described. Of the 39 samples, two (2) samples are boulders and thirty-seven were collected from outcrops or subcrops. Sample descriptions are presented in **appendix 2, table 1**. Assay results are presented in **appendix 3, table 1**.

The crew was equipped with IOS FieldNote tablet during their traverses, a device that contained interactive geological files and maps, and allowed the acquisition of georeferenced field description and sample descriptions with minimal errors. When possible, a witness sample was collected in addition to grab and channel samples.



Legend

- ★ Mineral occurrence
- - Structural Lineament Fault
- ▭ Property outline
- ▬ Romaine River
- ▭ Lakes
- Hydroelectric installation -
- ▨ Exploration allowed under specific conditions

Zones

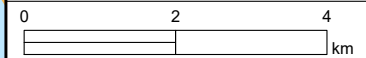
Stratigraphic Legend (SIGEOM)

Mezoproterozoic

- Syenite
- Migmatite
- Granit and pegmatite
- Gray gneiss
- Gabbro

Havre St-Pierre Anorthositique Suite

- Arnothosite
- Mangerite
- Mangerite, monzonite



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| 1418 | GO METALS CORP. |
| | Project: HPS |

Figure 3: Zones and exploration work zone

SNRC/NTS: 12M05, 12 UTM, Zone 20, NAD83
 Drawn by: Mélanie Aubin, October 2021

All transportation of the 2021 geological reconnaissance program was done by helicopter.

SAMPLING METHOD

All samples were collected from outcrops or boulders with a sledge hammer and a chisel. Covered outcrop were clean by hand. At some location, two fragments were collected, one for assay and the other as witness.

The rock samples were put in plastic bags, independently for assay and witness samples. A bar coded tag was insert in each plastic bag with the number corresponding to the bar-coded tags. Samples bags were sealed with a tie-wrap. An orange flag tape with sample number was tied around a rock and left on the sampling site. A second flag with sample and station number was attached on a nearby tree.

IOS numbering methodology (ex.: 14189xxxx) used for rock sample is as followed: the first four digits correspond to the project number (1418), the fifth digit is the material type (9 for rock sample) and the remaining four digits are sequential to the project. The current sample number spanned from **141890000** to **141890039** more **141890151**.

The field station terminology for outcrop or boulder sites consists of number of project dash two (2) digits of the current year follow by two (2) letters initials of geologist or engineer and three digits sequential number (ex.: 1418-21HL023).

Samples bags were placed in large rice bags and carried to IOS facility by the crew. Where from there, the samples were shipped to laboratory and the witnesses stored in the IOS warehouse in Saguenay. Thirty-nine (39) samples plus 4 samples for quality control have been shipped for assaying June 14, 2021.

ANALYTICAL PROTOCOL

Forty-three (43) samples, including four (4) samples for quality control, were shipped to ALS Minerals in Val-d'Or, Québec for three different packages. One package, for twenty five samples plus 4 samples for the QAQC, included analyzes by fire assay for platinum group elements on 30 grams aliquot with ICP-AES finishing (method PGM-ICP23) and for the multi-element spectral analysis by ICP-AES after aqua regia digestion (method ME-ICP41). Samples that graded in excess the ME-ICP41 limit for Ag, Cu, Ni and S

were resubmitted for aqua regia digestion with ICP-AES finishing (method Ag-OG46, Cu-OG46 and Ni-OG46) and for S total dosed by induction furnace (IR spectrum, method S-IR08). For the other 14 samples and also the 1 sample for quality control, the package for whole rock chemical analysis by X-ray fluorescence on fused metaborate beads has been used (method ME-XRF26)¹.

Analytical results of rock samples are provided in **appendix 3**, the analytical quality control in **appendix 4** and certificates in **appendix 5**.

ANALYTICAL QUALITY CONTROL

In order to ensure the quality of the analyses, IOS added blank and certified reference materials to the shipment to ALS Minerals in Val-d'Or, Québec. The blanks allow the detection of possible contamination or sample inversion, while the certified reference materials verify the accuracy and precision of the analytical technique.

ALS Minerals applied its own quality control which includes analysis of certified and internal reference material plus replicates. Analytical quality control is detailed in **appendix 4**.

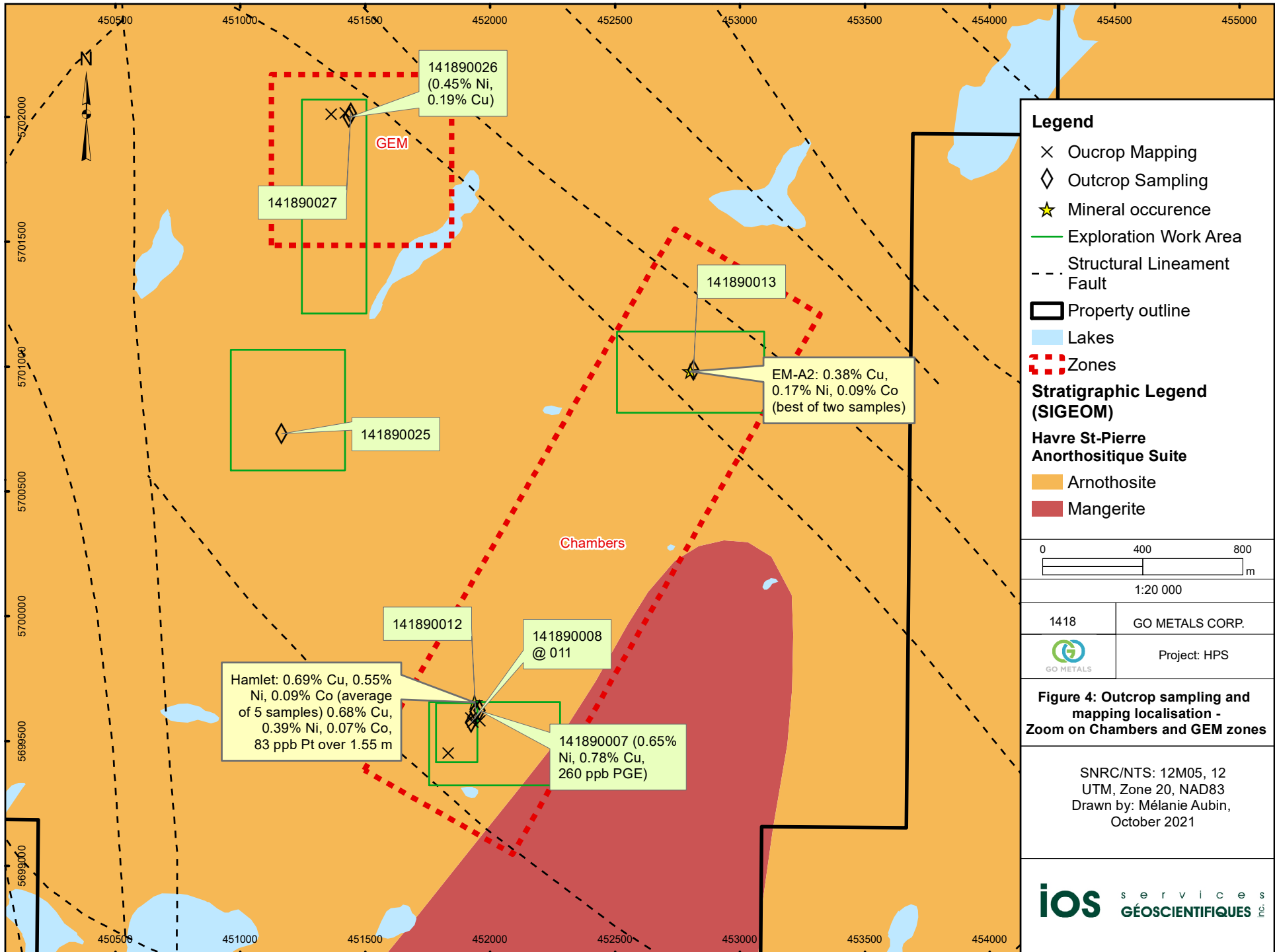
RESULTS

CHAMBER ZONE

This zone is located in the anorthosite near a wedge of mangerite to the southeast. It includes the historical Hamlet and EM-2A showings. The zone was visited on two days (May 20th and 21st) (**figure 4**).

The Hamlet showing was found and re-sampled (**table 1**). The showing itself was obviously blasted in 1997 (**photo 1**), but no other outcrop were found in the area. A conductive zone was found 40 m south of Hamlet with the help of the Beep Mat. The bedrock was buried under a thin (< 10 cm) layer of till which is locally hardened and rust-cemented. The outcrop, once cleaned, did not give a conductive signal. Other false

¹ CERTIFICATE ALS COMMENTS ON ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO₃. SF-Total less than or equal to 100%. ALL:NSS is non-sufficient sample.



141890026
 (0.45% Ni,
 0.19% Cu)

141890027

GEM

141890013

EM-A2: 0.38% Cu,
 0.17% Ni, 0.09% Co
 (best of two samples)

141890025

Chambers

141890012

141890008
 @ 011

Hamlet: 0.69% Cu, 0.55% Ni, 0.09% Co (average of 5 samples)
 0.68% Cu, 0.39% Ni, 0.07% Co, 83 ppb Pt over 1.55 m

141890007 (0.65% Ni, 0.78% Cu, 260 ppb PGE)

Beep Mat conductors in the area suggest that the gossany till itself is partially conductive.

| Sample | Showing | Ni (%) | Cu (%) | Co (%) | PGE (ppb) | Au (ppb) | S% |
|-----------|---------------|-------------|-------------|-------------|-----------|----------|------|
| 141890007 | Hamlet | 0,65 | 0,78 | 0,11 | 260 | 21 | 21,5 |
| 141890010 | | 0,01 | <0,01 | <0,01 | 13 | <1 | 1,12 |
| 141890011 | | 0,01 | 0,02 | 0,02 | 85 | 32 | 4,95 |
| 141890012 | <i>Hamlet</i> | <i>0,12</i> | <i>0,09</i> | <i>0,01</i> | 33 | <1 | 3,51 |
| 141890013 | EM-A2 | 0,34 | 0,17 | 0,09 | 19 | 2 | 22,5 |

Table 1: Assays of selected grab samples from the Chamber Zone. Sample 141890012 is a boulder (blasted rock?).

The EM-A2 showing was also found, but the trench was under water and only blocks from an obvious blast were visible and sampled. No other outcrop was found in the area. A fire happened in the area in recent past and, as a result, the numerous fallen trees made Beep Mat survey impossible (Beep Mat off the ground 95% of time).



Photo 1: *Hamlet Showing.*



Photo 2: Trench dug in 1996 over the EM-2A showing. The trench is now completely flooded.

PGE ZONE

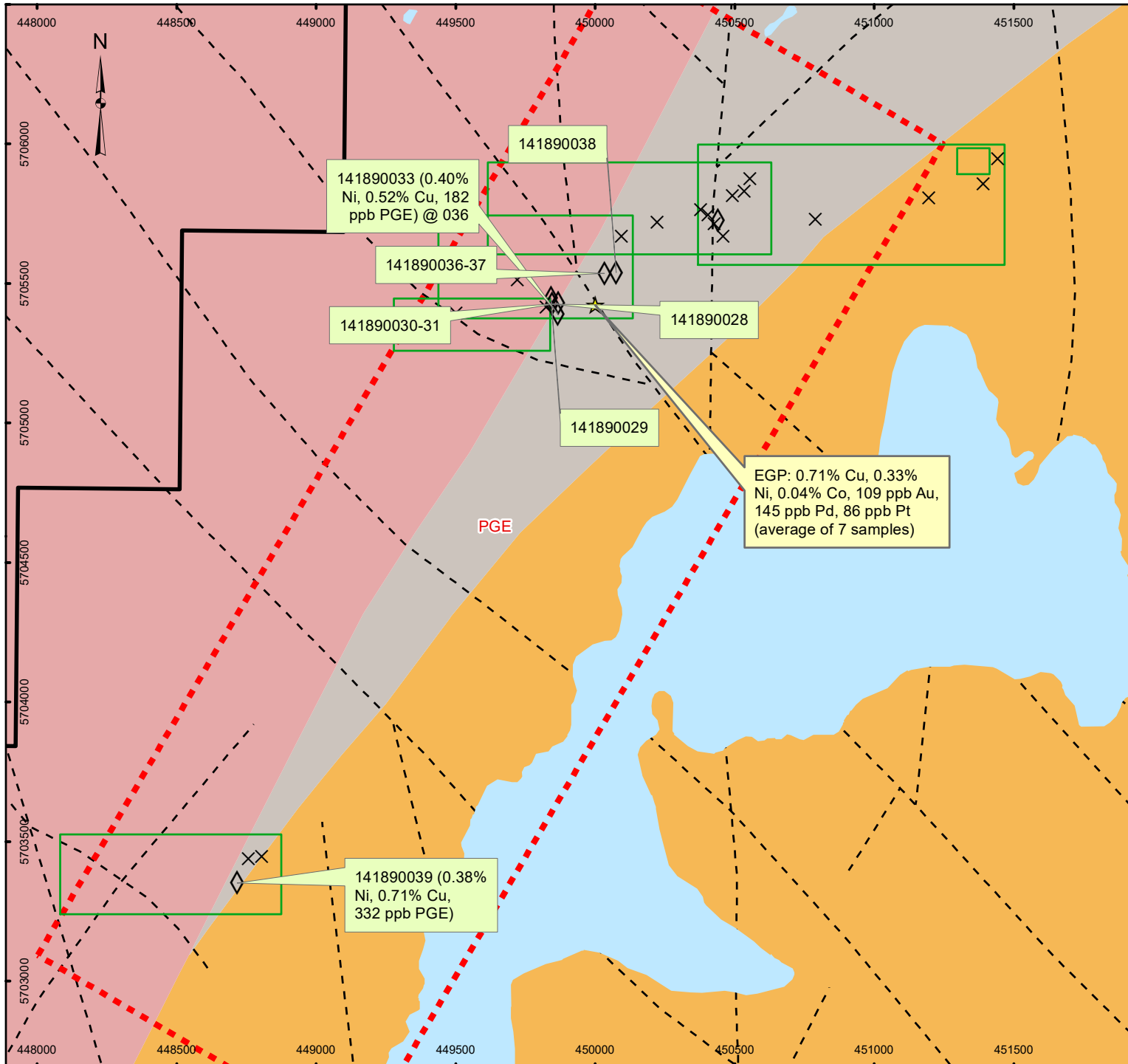
The northwest zone is located along the western contact between the anorthosite and a grey quartz-plagioclase-biotite gneiss. The zone includes the historic EGP showing which was resampled (**table 2**). It was visited on five (5) non-consecutive days.

Several other lenses of massive to semi-massive sulphides were found in the area (**figure 5**) and all are associated with melanocratic (ultramafic?) rocks. The rock exposure is fairly poor (**photo 3**) and it is difficult to assess the geometry and thickness of the sulphide-bearing rocks, but they appear to be parallel to the foliation found in the host rock (220 84). Interestingly, K-spar and quartz bearing anorthositic rock, named *laurinite* by Franconi and Sharma (1973) was found in that area.

A small EM conductor was identified by the airborne EM survey, 2.8 km SSE of the historical EGP zone. The Beep Mat helped find another gabbro (?) -hosted sulphide lens. A sample taken out of a small 20 inches-deep hole yielded 0.71% Cu, 0.38% Ni and 252 ppb Pd (Sample 141890039; **table 2**).

| Sample | Showing | Ni (%) | Cu (%) | Co (%) | PGE (ppb) | Au (ppb) | S% |
|-----------|-------------------|--------|--------|--------|-----------|----------|------|
| 141890001 | | <0,01 | <,01 | <0,01 | 3 | <1 | 0,06 |
| 141890002 | | 0,06 | 0,16 | <0,01 | 26 | 84 | 2,56 |
| 141890003 | | 0,01 | <,01 | 0,02 | 3 | <1 | 0,16 |
| 141890004 | | 0,01 | 0,01 | <0,01 | 2 | 1 | 0,42 |
| 141890005 | | 0,03 | 0,04 | <0,01 | 3 | 20 | 1,07 |
| 141890006 | | 0,03 | 0,04 | 0,01 | 190 | 40 | 1,13 |
| 141890028 | PGE-CENTER | 0,27 | 0,37 | 0,05 | 127 | 59 | 8,55 |
| 141890030 | PGE-CENTER | 0,04 | 0,12 | 0,01 | 46 | 56 | 1,32 |
| 141890032 | PGE-CENTER | 0,19 | 0,19 | 0,02 | 88 | 61 | 3,72 |
| 141890033 | PGE-CENTER | 0,40 | 0,52 | 0,06 | 182 | 68 | 8,69 |
| 141890035 | PGE-CENTER | 0,24 | 0,31 | 0,03 | 120 | 194 | 6,26 |
| 141890036 | PGE | 0,03 | 0,02 | 0,01 | 14 | <1 | 0,56 |
| 141890037 | PGE | 0,34 | 0,45 | 0,05 | 227 | 15 | 8,13 |
| 141890038 | PGE | 0,18 | 0,71 | 0,04 | 222 | 22 | 7,19 |
| 141890039 | PGE-SOUTH | 0,38 | 0,71 | 0,05 | 332 | 54 | 8,75 |

Table 2: Assays from grab samples of the PGE Zone. PGE-Center and PGE-South are newly found occurrences.



Legend

- × Outcrop Mapping
- ◇ Outcrop Sampling
- ★ Mineral occurrence
- Exploration Work Area
- - - Structural Lineament
- - - Fault
- ▭ Property outline
- Lakes
- Zones

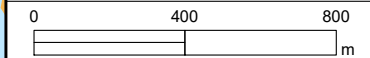
Stratigraphic Legend (SIGEOM)

Mezoproterozoic

- Migmatite
- Gray gneiss

Havre St-Pierre Anorthositique Suite

- Anorthosite



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| | |
|------|-----------------|
| 1418 | GO METALS CORP. |
| | Project: HPS |

Figure 5: Outcrop sampling and mapping localisation - Zoom on PGE zone

SNRC/NTS: 12M05, 12 UTM, Zone 20, NAD83
 Drawn by: Mélanie Aubin,
 October 2021



Photo 3: Example of sulphides occurrence in the PGE zone. Sulphides were found using a Beep Pap IV. Here, station 1418-21HL059 (samples 14189032@34). The dark spot is massive pyrrhotite.

GEM ZONE

A small EM anomaly located at the north end of a drumlin was visited on May 25th.

A Beep Mat survey gave a conductive response over the target. Unfortunately, the bedrock was covered with almost one meter of till and only a narrow trench was dug (**photo 4**). The rock chips indicate a massive sulphide lens (?) associated with a melanocratic rock. Once uncovered the rock was extremely conductive and assays yielded 0.44% Ni and 0.19% Cu (sample 141890026; **table 3**). Other zones gave positive Beep Mat signal but only one other hole reached the outcrop because of thick till and numerous roots.



Photo 4: Shovel-dug trench at the GEM Zone.

| Sample | Showing | Ni (%) | Cu (%) | Co (%) | PGE (ppb) | Au (ppb) | S% |
|-----------|---------|--------|--------|--------|-----------|----------|------|
| 141890026 | GEM | 0,45 | 0,19 | 0,03 | 118 | 30 | 6,23 |
| 141890027 | GEM | 0,40 | 0,24 | 0,03 | 158 | 31 | 6,58 |

Table 3: Assay from grab samples from the newly discovered Gem Zone.

RED MOUNTAIN ZONE

This zone targeted an EM anomaly located near the south tip of Rougemont Lake (**figure 6**). The area was visited on May 24th and 25th.

Sulphides were found on an N-S ridge. Centimetre-wide pyrrhotite lens were found in the gneiss (**photo 5**) and massive sulphides were found 18 inches below surface, 7 metres NNW from the pyrrhotite-bearing outcrops. Boulder of massive sulphides was also found nearby. Both outcrop and boulder yielded significant values of Ni, Cu and some Co, Au and Ag (**table 4**).

| Sample | Showing | Ni (%) | Cu (%) | Co (%) | PGE (ppb) | Au (ppb) | S% |
|-----------|---------|--------|--------|--------|-----------|----------|------|
| 141890014 | | 0,2 | 0,57 | 0,04 | 162 | 55 | 5 |
| 141890015 | | 1,78 | 0,58 | 0,14 | 224 | 27 | 26,1 |
| 141890016 | | 0,88 | 3,97 | 0,07 | 168 | 333 | 20,3 |

Table 4: Assays of selected grab samples from the Red Mountain Zone. Sample 141890015 is from a boulder.

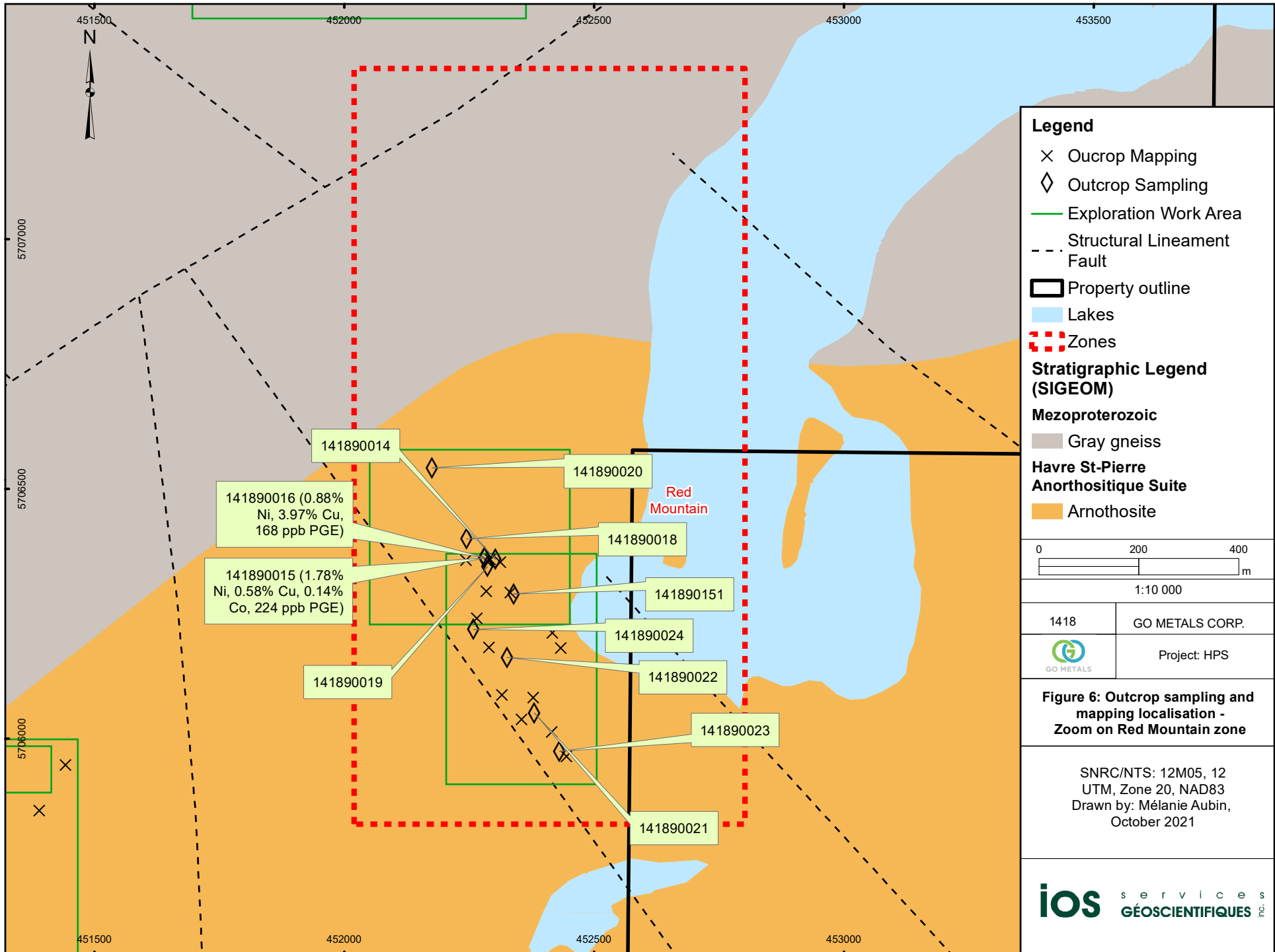




Photo 5: Sulphide veins in a grey gneiss at Red Mountain.

COUNTRY ROCKS

In order to provide a regional background on the country rock chemistry, a series of samples were (randomly) taken and sent for assays (major oxides) and the results were plotted in a TAS diagram (**figure 7**). A series of samples are gabbros and may be the melanocratic rock which host the massive sulphides. The samples that were identified as anorthosite and mangerite during field work plot in the monzodiorite and monzonite fields, as do HSP anorthosite samples from the literature (Bachari, 2004). Three samples from the Red Mountain Zone are located in, or close to, the syenite field. These three samples have been labelled as intermediate intrusive during field work. There is no indication that they are from the grey gneiss and one could argue that they may be a late, less mafic, phase of the anorthosite as they plot on straight line with the

(anorthosite related)-gabbro and anorthosite (see arrow; **figure 7**). They could be equivalent to the *laurinite* of Franconi and Sharma (1973).

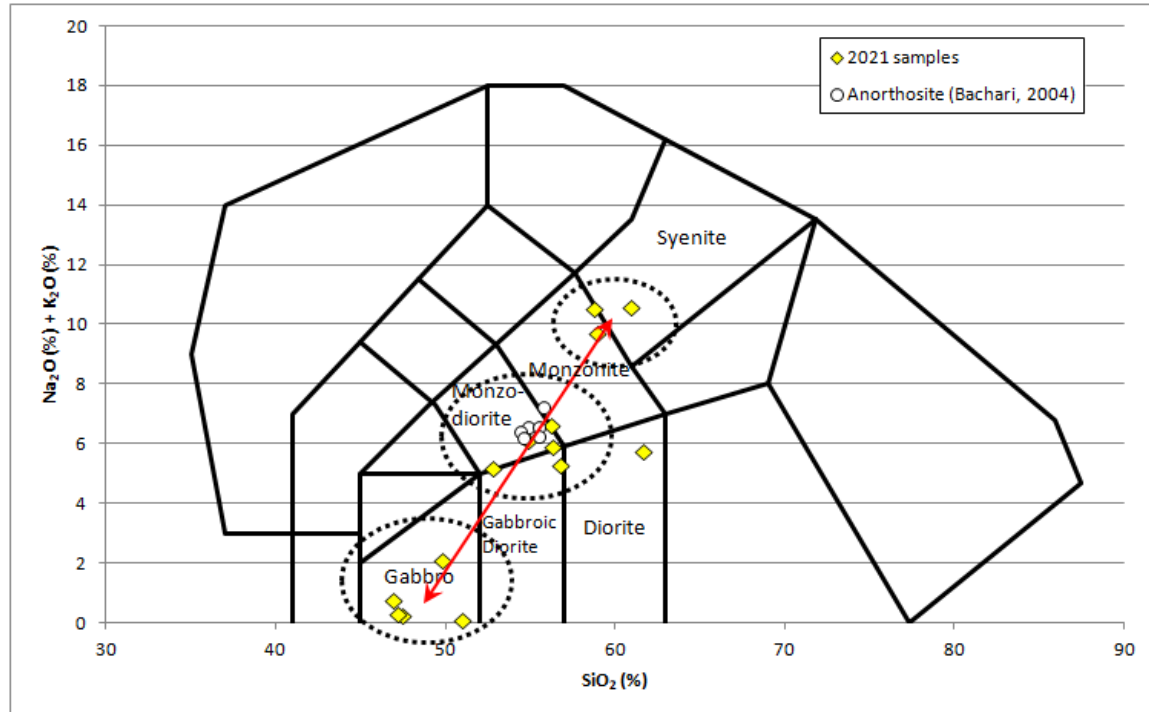


Figure 7: Total Alkalis vs Silica (TAS) diagram for 14 samples from the HSP project country rock. Data for the La Romaine Anorthosite (Bachari, 2004) are included for comparison.

Although these results have to be taken with caution when used for targeting, they could be used for the interpretation of magnetic or gravimetric survey.

ORE PETROGRAPHY

Twelve thin sections of sulphide-rich samples were processed with the ARTSection technology in order to 1) determine the nature of the sulphides, 2) the mineral texture which may yield information about the metallogeny and 3) the department of nickel (i.e. in pentlandite or in pyrrhotite). The full report is provided in **appendix 6** and only the main findings are discussed here.

SULPHIDES MINERALOGY

The main sulphide, regardless of the showing or sample, is pyrrhotite. Sample 141890033, from the PGE zone, has more pyrite and altered pyrrhotite than unaltered pyrrhotite, but there are several indications of a late, likely supergene, alteration that has modified the mineralogy and made the ARTSection differentiation between pyrite and pyrrhotite more difficult. The second most common sulphide is chalcopyrite. Pentlandite is present in all samples, albeit in small proportion (0.01% to 0.36%). Traces of sphalerite were detected in a couple of samples and traces of molybdenite in one. Pyrite is found in nine samples, but its proportion is likely related to alteration intensity. The altered pyrrhotite chemistry suggests that is more likely a mix of Fe-Ni-(Cu) sulphides.

TEXTURES

There are two distinctive textures seen in the samples. The first one is a texture in which silicates minerals (mostly plagioclase) are trapped in sulphides. This texture is visible in massive sulphide samples (141890007 and -13) from the Chamber Zone. In sample 141890012 (boulder (?) from Chamber) the few sulphides (2.52%) are found as small rounded grains in the groundmass or as a relatively large chalcopyrite grains with biotite. There is no evidence that this texture being tectonically induced and it is not a durchbewegung.

The second texture is a cumulate texture which shows interstitial sulphides trapped between pyroxene grains. The average sulphide content is 14% and the silicates indicate an ultramafic (orthopyroxenite) composition of the host rock. This texture is visible in samples from the GEM and PGE zones.

The sample from the Red Mountain Zone (141890014) shows a sulphides-oxides veinlet (?) along a quartz-biotite layer from the grey gneiss. Interestingly, there seems to be an amphibole-rich fragment (?) in the felsic layer. The texture from that sample suggests a complex history of the gneiss but also possible injection (or remobilization) of sulphides in the country rock.

Samples 1490033 and -37 from the PGE zone also suggest a more complex history that settling of sulphides at the bottom of a mafic/ultramafic magma chamber. Sample 14189033 (PGE – centre; new showing) displays a possible breccias texture, but more importantly a mineralogy indicative of alteration with Fe-oxides, chlorite and altered

pyrrhotite. Sample 141890037 (PGE historical showing) also displays a breccia texture with sulphides surrounding amphibolite fragments.

NICKEL DEPARTMENT

The distribution of nickel in massive sulphides is important because it is more readily extractible from pentlandite than from pyrrhotite. The bulk of the nickel is present in pentlandite (28.74% Ni) and its alteration product (bravoite and violarite) and in chalcopyrite (4.27% Ni). The pentlandite also holds an average of 4.76% Co. The pyrrhotite contains, on average, 0.53% Ni.

Only samples 141890012 and 141890033 have Ni-bearing minerals other than sulphides. Nickel is noted in Fe-oxides of sample 141890012. However, the chemistry of the cluster is rather complex which suggest a mix of several fine-grained minerals including pentlandite. Nickel is present in chlorite and biotite of sample 141890033. This sample shows evidences of alteration and brecciation and likely remobilization of metals.

Despite the unusual nickel distribution on the two samples mentioned above, most of the nickel is found in pentlandite as shown in **figure 8**.

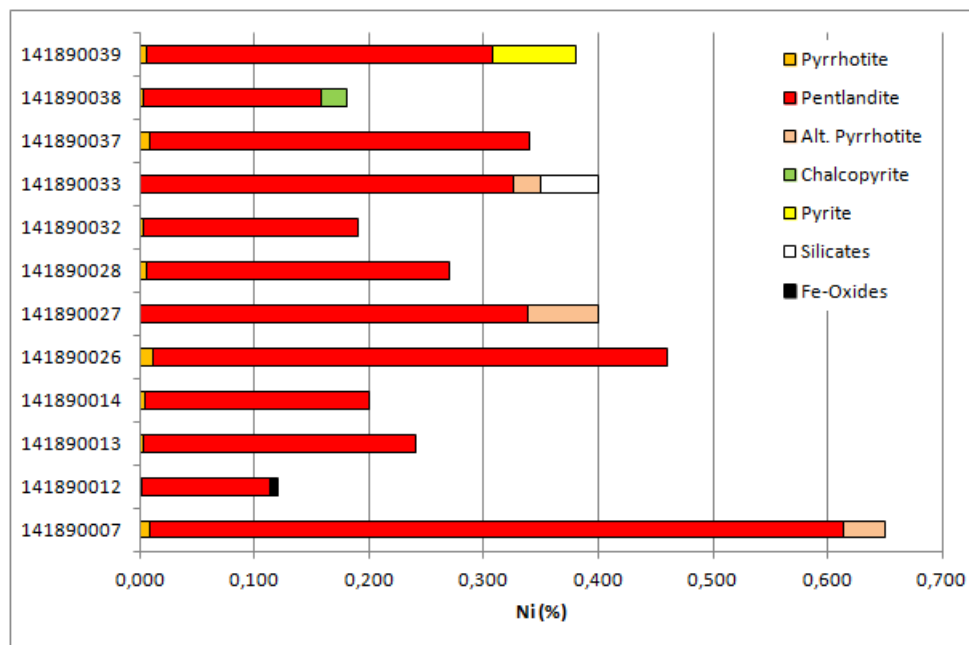


Figure 8: Total nickel and nickel department in the samples from the HSP project.

The pentlandite (average 0.16%) is small but granular within the pyrrhotite mass or as fracture filling, also in pyrrhotite. Only sample 141890018 has thin flames of pentlandite in pyrrhotite. The bulk of pentlandite shall hence be amenable to beneficiation in order to produce a sulphide concentrate in excess of 12% Ni, as required for smelting.

OTHER OBSERVATIONS

Sample 14189013 (Chamber Zone) has a particular mineralogy. The most common mineral are pyrrhotite (66%) and sapphirine (26%). There is also 4% of graphite. There is almost no plagioclase (0.04%) and other accessory phases include corundum and rutile. This mineralogy suggests an aluminium-rich subsilic, likely reducing, environment. The sample comes from the flooded trench at EM-A2 showing and it is impossible to tell the exact relation between this unusual rock and the anorthosite.

CONCLUSION AND RECOMMENDATIONS

The May 2021 prospection work on the HSP project yielded encouraging results. Not only the historical showing were found, but new zones, some with better grades, were discovered in several areas of the property. The nickel being mostly present in pentlandite adds to the property's potential. The Ni# and the (Ni+Co+Cu)# indicate that the MSS (monosulphide solid solution) at GEM was the richest in nickel but that total saleable metals (Ni+Co+Cu) was likely higher at Red Mountain (**table 5**).

| | Ni# | Co# | Cu# | (Ni+Co+Cu)# |
|----------|------|------|-------|-------------|
| Chambers | 0,98 | 0,04 | 5,85 | 6,87 |
| PGE | 1,64 | 0,10 | 3,17 | 4,91 |
| Red | 1,14 | 0,02 | 14,57 | 15,73 |
| Gem | 2,94 | 0,12 | 2,31 | 5,38 |
| | | | | |
| Average | 1,65 | 0,08 | 4,65 | 6,38 |

Table 5: Ni#, Co#, Cu# and (Ni+Co+Cu)# (saleable metals) for each zones.

Evidences of magmatic sulphide segregation are preserved in most samples, and tectonometamorphic remobilization seems minimal. Pentlandite is segregated from pyrrhotite, suggesting it shall be amenable to beneficiation.

Since the overall rock exposure is fairly low in the area and that the new showings were sampled in hand-made trenches, it is recommended to bring a small excavator on site to dig longer and wider trenches and to proceed to proper channel sampling. It is also recommended to survey the northwestern anorthosite – gneiss contact with a ground EM survey. This contact holds the PGE and Red Mountain zones. Given the fairly good structural and geological information gathered from good rock exposure at Red Mountain, drilling can be considered. At PGE, the exposure is limited but the structural trend, as seen of the few outcrops and geophysics, is constant and drilling near the showing carries little risks.

The Chamber zone remains of interest but needs some trenching in order to understand the relation between the ore and the host rocks which is still uncertain at this point.

The finding of the Gem zone was somewhat unexpected given the distance with any known geological contact and relatively thick overburden. That zone requires a ground EM survey to better plan future trenching or drilling.

2021-1418_Report

HSP prospection, November 2021


Hugues Longuépée, P. Geo.

OGQ n° 730



Contributions:

Réjean Girard, P. Geo., Scientific review

Karine Desbiens, edition

Mélanie Aubin, GIS Specialist, drafting

Karen Gagné, Chemist, quality control and quality assurance

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APPENDIX 1

DAILY REPORTS

| DAILY REPORT | | Date : 2021-05-14 | | PROJECT :1418 | LODGE: | WEATHER : | | |
|--|------------------|--------------------------|------------------------------------|------------------------------------|---------------------|-------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Mobilization Montreal - Chicoutimi with the client representative (H. Slade) | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | Chicoutimi | 8 | | | |
| 2 | | | | | | | | |
| 3 | Harley Slade | Caveman | Client representaive | Chicoutimi | | | | |
| 4 | | | | | | | | |
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| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : Montreal - Chicoutimi | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| BUDGET : 204 860 \$ | | EXPENSES : 7 444,67 \$ | | IOS Services Géoscientifiques inc. | | | | |
| | | | | BILLING : | | | | |

| DAILY REPORT | | Date : 2021-05-14 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : | | | |
|---|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|-------------|----------------|---------|--|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | | |
| | | | | DAILY CALL | | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | | |
| Mobilization Chicoutimi - Havre Saint-Pierre | | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | | |
| | | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture | |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | | |
| 5 | | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | | |
| 7 | | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | | |
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| | | | | TOTAL ON THE FIELD | 7 | | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | | |
| HELICOPTER FLIGHT : 1,1 | | | | ACCIDENT : | | | | | |
| TRUCK TRIP : 10 | | | | TIMEOUT : | | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | | |
| PURCHASE : | | | | | | | | | |
| MOBILIZATION : Chicoutimi-Havre St-Pierre (10 heures) | | | | DISCIPLINARY ADVISE : | | | | | |
| DEMobilIZATION : | | | | VERIFICATION : | | | | | |
| DRILLING From: To: | | | | BILLING : | | | | | |
| LEFTOVER BUDGET : 197 415 \$ | | | | EXPENSES : 5 755,30 \$ | | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | | |

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|---|---------------------|--------------------------|------------------------------------|-----------------------|------------------------------|--------------------------|-----------------------|----------------|
| DAILY REPORT | | Date : 2021-05-15 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sun and cloud. | | |
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Waiting for Covid testing. Reconnaissance. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| Mapping over a small mag anomaly. Presence of a magnetic mangerite (more likely anorthositic gabbro). | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
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| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 4,0 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 191 660 \$ | | EXPENSES : 11 171,39 \$ | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-16 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Nice weather | | |
|---|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|------------------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Visit of an anomaly NW of the Garnier Lake | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| Ultramafic rock (?) and sulphides. Poorly developed gossan. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,7 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 180 489 \$ | | | | EXPENSES : 7 054,69 \$ | | | | |
| | | | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

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|---|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|--------------------|-----------------------|----------------|
| DAILY REPORT | | Date : 2021-05-17 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Rain | | |
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Rain and ceiling too low for flying. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
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| 14 | | | | | | | | |
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| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : 60,94 \$ | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 173 434 \$ | | | | EXPENSES : 2 984,05 \$ | | BILLING : | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

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|---|---------------------|--------------------------|------------------------------------|-----------------------|------------------------------|--------------------|-----------------------|----------------|
| DAILY REPORT | | Date : 2021-05-18 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Rain | | |
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Rain and ceiling too low for flying. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
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| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : | | 170 450 \$ | EXPENSES : | 2 755,11 \$ | BILLING : | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-19 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sunny | | |
|---|---------------------|--------------------------|------------------------------------|------------------------------------|------------------------------|-----------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Low ceiling, clearing at 10am. Beepmat prospecting on the NW anomaly. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| No outcrop. Few holes enabled the recognition of mafic / ultramafic intrusions. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
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| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,8 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 167 695 \$ | | | | BILLING : | | | | |
| EXPENSES : 7 277,80 \$ | | | | IOS Services Géoscientifiques inc. | | | | |

| DAILY REPORT | | Date : 2021-05-20 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sun and cloud | | |
|---|---------------------|-------------------|------------------------------------|------------------------------------|------------------------------|-------------------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Low ceiling with departure at 9am. Visit west of Garnier Lake. Given the amount of snow on the ground, work was moved to the Hamlet showing at 1pm. Beepmat and prospection. Small trench dug-out with shovels. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| No outcrop seen west of Garnier Lake. Hamelt showing is a layer of massive sulphide in a gabbro. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,7 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 160 417 \$ | | | | BILLING : | | | | |
| EXPENSES : 6 389,96 \$ | | | | IOS Services Géoscientifiques inc. | | | | |

| DAILY REPORT | | Date : | 2021-05-21 | PROJECT :1418 | LODGE: Auberge Boréale (HSP) <th colspan="3">WEATHER : Nice. Clouds in the afternoon.</th> | WEATHER : Nice. Clouds in the afternoon. | | |
|---|---------------------|-----------|------------------------------------|---|--|--|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée <th colspan="3">SIGNATURE :</th> | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Work on the Hamlet Showing (trench, VLF, Beepmat). Move to EM-2A showing in the pm. Trench found, but no outcrop (flooded).Déplacement vers l'anomalie EM-A2. Beepmat impossible to use (fallen trees all over the place). Left field at 3:30pm because of the weather. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| The Hamlet zone is characterized by sulphides zones associated to gabbro and intermediate intrusive cutting the anorthosite. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,7 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : 7 431,00 \$ | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 154 027 \$ | | | | BILLING : | | | | |
| EXPENSES : 7 004,64 \$ | | | | IOS Services Géoscientifiques inc. | | | | |

| DAILY REPORT | | Date : 2021-05-22 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Covered (low ceiling) | | |
|---------------------------------|---------------------|--------------------------|------------------------------------|-----------------------|------------------------------------|---------------------------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| No field work. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : | | 147 022 \$ | EXPENSES : | 2 774,54 \$ | IOS Services Géoscientifiques inc. | | | |
| | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-23 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Cloudy. Snow falling north of Romaine 4. | | |
|---|---------------------|--------------------------|------------------------------------|-----------------------|------------------------------|--|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Tried to get to the property, but weather was too bad north of Romaine 4. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,2 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 144 248 \$ | | EXPENSES : 4 708,04 \$ | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-24 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sun and cloud | | |
|---|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|-------------------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Visit the north anomaly (Rougemont Lake / Red Mountain target). | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| Grey gneiss with severals massive sulphide (and magnetite?) lenses. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,8 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 139 540 \$ | | | | EXPENSES : 6 986,80 \$ | | | | |
| | | | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-25 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sunny | | |
|---|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|-----------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Work at Red Mountain. Early start from work area (3:30pm) due to weather. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| Anorthosite and small UM dyke with sulphides. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,8 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 132 553 \$ | | | | EXPENSES : 6 905,46 \$ | | BILLING : | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| | | | | | | | | |
|---|---------------------|--------------------------|------------------------------------|-----------------------|------------------------------|--------------------------|-----------------------|----------------|
| DAILY REPORT | | Date : 2021-05-26 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Cloud and rain | | |
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| No field work due to bad weather. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : | | 125 648 \$ | EXPENSES : | 2 838,04 \$ | BILLING : | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-27 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Nice | | | |
|---|---------------------|--------------------------|------------------------------------|---|------------------------------|----------------|----------------|---------|--|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | | |
| | | | | DAILY CALL | | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | | |
| Laft HSP at 9am. Visit of the center (GEM) target area. | | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | | |
| Very few outcrop. Large anorthosite outcrop. Sulphides in the anorthosite (?) were found 1 meter below surface using the Beepmat. | | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture | |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | | |
| 5 | | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | | |
| 7 | | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | | |
| HELICOPTER FLIGHT : 1,7 | | | | ACCIDENT : | | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | | |
| PURCHASE : | | | | | | | | | |
| MOBILIZATION : | | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | | |
| LEFTOVER BUDGET : 122 810 \$ | | | | BILLING : | | | | | |
| EXPENSES : 6 660,04 \$ | | | | IOS Services Géoscientifiques inc. | | | | | |

| DAILY REPORT | | Date : 2021-05-28 | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Snow | | | |
|---|---------------------|--------------------------|------------------------------------|------------------------------------|----------------|-------------|----------------|---------|
| | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | | |
| | | | DAILY CALL | | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Snow fall. Impossible to get to the property. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,8 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 116 149 \$ | | EXPENSES : 5 591,93 \$ | | IOS Services Géoscientifiques inc. | | | | |
| | | | | BILLING : | | | | |

| DAILY REPORT | | Date : 2021-05-29 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Beau | | |
|--|---------------------|--------------------------|------------------------------------|------------------------|------------------------------|----------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Visit of the PGE target area. New mineralized zone found. Historical showing also found. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| Mafic dykes with sulphides. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | HSP | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | HSP | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 7 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 1,8 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 110 558 \$ | | | | EXPENSES : 7 114,38 \$ | | | | |
| | | | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

| DAILY REPORT | | Date : 2021-05-30 | | PROJECT :1418 | LODGE: Auberge Boréale (HSP) | WEATHER : Sunny | | |
|---|---------------------|--------------------------|------------------------------------|---|------------------------------|-----------------|----------------|---------|
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Visit of an EM anomaly SW of the PGE area. Stripping of a mineralized zone. Visit of a small anomaly to the north of the property. Helicopter left at the end of the day. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| UM dyke with sulphide at PGE. No outcrop to the north. | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | HSP | 11,5 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | HSP | 11,5 | | | |
| 3 | Yan Desforges | IOS | Geology Student | HSP | 11,5 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | HSP | 11,5 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | HSP | | | | |
| 7 | | | | | | | | |
| 8 | Gaetan Thibault | Can. Hel. | Pilot | | | | | |
| 9 | Sean Jalbert | Can. Hel. | Mechanics | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | 5 | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 2,9 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 103 443 \$ | | | | BILLING : | | | | |
| EXPENSES : 8 930,08 \$ | | | | IOS Services Géoscientifiques inc. | | | | |

| | | | | | | | | |
|--|---------------------|--------------------------|------------------------------------|-----------------------|---------------------|--------------------|-----------------------|----------------|
| DAILY REPORT | | Date : 2021-05-31 | | PROJECT :1418 | LODGE: | WEATHER : Sunny. | | |
| | | | | CLIENT : Go Metals | RESP. : H.Longuépée | SIGNATURE : | | |
| | | | | DAILY CALL | | | | |
| COMMENTS ABOUT THE WORK: | | | | | | | | |
| Demob. Helicopter hours billed to account for the miniumal usage time. | | | | | | | | |
| COMMENTS ABOUT GEOLOGY: | | | | | | | | |
| | | | | | | | | |
| | STAFF | Group | Title | Overnight | Time | Out of Camp | Where (if out) | Facture |
| 1 | Hugues Longuépée | IOS | Senior Geologist / Project Manager | Chicoutimi | 8 | | | |
| 2 | Adrien Boucher | IOS | Geologist in training | | 8 | | | |
| 3 | Yan Desforges | IOS | Geology Student | | 8 | | | |
| 4 | Frederic Lalancette | IOS | Geology Student | | 8 | | | |
| 5 | | | | | | | | |
| 6 | Harley Slade | Caveman | Client representaive | Chicoutimi | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| | | | | TOTAL ON THE FIELD | | | | |
| SEAPLANE FLIGHT : | | | | MECHANICAL PROBLEM : | | | | |
| HELICOPTER FLIGHT : 24,1 | | | | ACCIDENT : | | | | |
| TRUCK TRIP : | | | | TIMEOUT : | | | | |
| SAMPLE SHIPMENTS | | | | IMPROVEMENT TO DO : | | | | |
| PURCHASE : | | | | | | | | |
| MOBILIZATION : | | | | | | | | |
| DEMOBILIZATION : Havre St-Pierre - Chicoutimi | | | | DISCIPLINARY ADVISE : | | | | |
| DRILLING From: To: | | | | VERIFICATION : | | | | |
| LEFTOVER BUDGET : 94 513 \$ | | EXPENSES : 35 343,29 \$ | | BILLING : | | | | |
| IOS Services Géoscientifiques inc. | | | | | | | | |

APPENDIX 2

SAMPLES DESCRIPTION

Table 1: Rock sample and outcrop location and description

| Station | Sample number | UTM NAD 83 X | UTM NAD 83 Y | Z (m) | Date | Area | Witness sample | Outcrop / Boulder | Size | Lithology | Colour |
|---------------|---------------|--------------|--------------|-------|------------|--------------|----------------|-------------------|--------------------|--------------------------------------|-------------------------|
| 1418-21A8001 | | 451389,7 | 5705855,6 | | 2021-05-16 | | | Outcrop | 1 sq.m. | I2O Hyperstene monzonite (mangerite) | Beige |
| 1418-21A8002 | | 451831,9 | 5699451,3 | | 2021-05-20 | Chamber | | Outcrop | more than 10 sq. m | I1G Granitic Pegmatite | white to pink |
| 1418-21A8003 | 141890018 | 452244,5 | 5706399,9 | | 2021-05-24 | Red Mountain | No | Outcrop | 5 m long | I2 Intermediate Intrusive | white with black strips |
| 1418-21A8004 | 141890020 | 452175,5 | 5706541,7 | | 2021-05-24 | Red Mountain | No | Outcrop | 5 m long | I2 Intermediate Intrusive | white with black strips |
| 1418-21HL001 | 141890001 | 451574,0 | 5705931,0 | | 2021-05-15 | | | Outcrop | | I3A Gabbro | |
| 1418-21HL002 | | 451356,0 | 5705941,0 | | 2021-05-15 | PGE | | Outcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL003 | | 451441,8 | 5705946,8 | | 2021-05-16 | PGE | | Outcrop | | I2 Intermediate Intrusive | Grey, white, (pink) |
| 1418-21HL004 | | 451194,8 | 5705805,7 | | 2021-05-16 | PGE | | Outcrop | | I2 Intermediate Intrusive | White and brown |
| 1418-21HL005 | | 450788,9 | 5705730,5 | | 2021-05-16 | PGE | | Outcrop | | I2 Intermediate Intrusive | White, (pink), (grey) |
| 1418-21HL006 | 141890002-3 | 450438,6 | 5705726,1 | | 2021-05-16 | PGE | | Subcrop | | I4 Ultramafic intrusive | Black, bluish luster |
| 1418-21HL007 | | 450378,4 | 5705764,1 | | 2021-05-16 | PGE | | Outcrop | | I2O Hyperstene monzonite (mangerite) | White, brown, (pink) |
| 1418-21HL008 | 141890004 | 450403,7 | 5705745,3 | | 2021-05-16 | PGE | | Subcrop | | I4 Ultramafic intrusive | Black |
| 1418-21HL009 | | 450457,5 | 5705669,4 | | 2021-05-16 | PGE | | Subcrop | | I3G Anorthosite | White |
| 1418-21HL010 | 141890005-6 | 450425,5 | 5705713,3 | | 2021-05-16 | PGE | | Subcrop | | I4 Ultramafic intrusive | Rusty |
| 1418-21HL011 | | 450995,0 | 5705780,0 | | 2021-05-16 | PGE | | Subcrop | | I3A Gabbro | |
| 1418-21HL012 | | 451303,0 | 5705819,0 | | 2021-05-16 | | | Subcrop | | I3A Gabbro | |
| 1418-21HL013 | | 450491,9 | 5705813,2 | | 2021-05-19 | PGE | | Subcrop | | I4 Ultramafic intrusive | |
| 1418-21HL014 | | 450554,4 | 5705874,7 | 547,3 | 2021-05-19 | PGE | | Subcrop | | I4 Ultramafic intrusive | Dark Grey |
| 1418-21HL015 | | 450534,2 | 5705829,7 | 541,0 | 2021-05-19 | PGE | | Subcrop | | I4 Ultramafic intrusive | |
| 1418-21HL016 | | 450222,0 | 5705718,4 | 562,9 | 2021-05-19 | PGE | | Outcrop | | I2I Diorite | |
| 1418-21HL017 | | 450093,6 | 5705668,9 | | 2021-05-19 | PGE | | Outcrop | | I3A Gabbro | |
| 1418-21HL018 | | 449823,9 | 5705415,0 | 593,9 | 2021-05-20 | PGE | | Subcrop | | M1 Gneiss | Grey |
| 1418-21HL019 | | 449501,7 | 5705391,9 | 576,4 | 2021-05-20 | PGE | | Subcrop | | I2 Intermediate Intrusive | |
| 1418-21HL020 | 141890007 | 451958,0 | 5699621,4 | 528,5 | 2021-05-20 | Chamber | No | Outcrop | | I3A Gabbro | |
| 1418-21HL021 | | 451959,1 | 5699581,3 | 532,8 | 2021-05-20 | Chamber | | Subcrop | | I3A Gabbro | |
| 1418-21HL022 | | 451930,8 | 5699577,0 | 530,8 | 2021-05-20 | Chamber | | Subcrop | | I2 Intermediate Intrusive | |
| 1418-21HL023 | 141890008-11 | 451924,6 | 5699574,8 | 531,3 | 2021-05-21 | Chamber | No | Subcrop | | I2 Intermediate Intrusive | White |
| 1418-21HL024 | | 451922,0 | 5699590,8 | 530,3 | 2021-05-21 | Chamber | | Subcrop | | I2 Intermediate Intrusive | |
| 1418-21HL025 | 141890012 | 451941,5 | 5699615,9 | 531,5 | 2021-05-21 | Chamber | No | Outcrop | | I3G Anorthosite | |
| 1418-21HL026 | 141890013 | 452813,1 | 5700986,4 | 568,5 | 2021-05-21 | Chamber | Yes | Subcrop | | I4 Ultramafic intrusive | |
| 1418-21HL027 | 141890151 | 452339,0 | 5706289,8 | 494,8 | 2021-05-24 | Red Mountain | No | Outcrop | | I2 Intermediate Intrusive | |
| 1418-21HL028 | 141890014 | 452302,4 | 5706358,2 | 500,3 | 2021-05-24 | Red Mountain | No | Subcrop | | M1 Gneiss | |
| 1418-21HL029 | | 452332,4 | 5706292,7 | 491,0 | 2021-05-24 | Red Mountain | | Outcrop | | I2 Intermediate Intrusive | |
| 1418-21HL030 | | 452312,8 | 5706353,2 | 497,4 | 2021-05-24 | Red Mountain | | Outcrop | 35 sq.m. | M1 Gneiss | Grey |
| 1418-21HL031 | | 452285,5 | 5706354,9 | 502,5 | 2021-05-24 | Red Mountain | | Outcrop | | M1 Gneiss | |
| 1418-21HL032 | 141890016 | 452280,7 | 5706362,8 | 502,3 | 2021-05-24 | Red Mountain | No | Subcrop | | F2 Semi-massive sulphides | |
| 1418-21HL032b | 141890015 | 452280,6 | 5706361,2 | 503,2 | 2021-05-24 | Red Mountain | No | Boulder | 20 cm | F2 Semi-massive sulphides | |
| 1418-21HL033 | | 452243,8 | 5706357,1 | 501,9 | 2021-05-24 | Red Mountain | | Outcrop | | I2 Intermediate Intrusive | White |
| 1418-21HL034 | | 452292,3 | 5706358,1 | 500,1 | 2021-05-24 | Red Mountain | | Subcrop | | M1 Gneiss | |
| 1418-21HL035 | 141890019 | 452286,3 | 5706343,9 | 503,5 | 2021-05-24 | Red Mountain | No | Outcrop | | M1 Gneiss | |
| 1418-21HL036 | | 452284,1 | 5706295,1 | 503,4 | 2021-05-24 | Red Mountain | | Outcrop | | M1 Gneiss | Grey |
| 1418-21HL037 | | 452265,6 | 5706240,0 | 498,4 | 2021-05-24 | Red Mountain | | Outcrop | | M1 Gneiss | |
| 1418-21HL038 | 141890022 | 452325,5 | 5706162,2 | 494,5 | 2021-05-25 | Red Mountain | Yes | Outcrop | | I2O Hyperstene monzonite (mangerite) | |
| 1418-21HL039 | | 452289,0 | 5706183,0 | 494,9 | 2021-05-25 | Red Mountain | | Outcrop | | I2O Hyperstene monzonite (mangerite) | |
| 1418-21HL040 | 141890024 | 452258,1 | 5706218,4 | 497,7 | 2021-05-25 | Red Mountain | Yes | Outcrop | | I2 Intermediate Intrusive | |
| 1418-21HL041 | | 452315,1 | 5706087,3 | 496,4 | 2021-05-25 | Red Mountain | | Outcrop | | I3G Anorthosite | White |
| 1418-21HL042 | | 452377,7 | 5706081,3 | 492,6 | 2021-05-25 | Red Mountain | | Outcrop | | I2 Intermediate Intrusive | |
| 1418-21HL043 | | 452444,8 | 5705963,3 | 496,2 | 2021-05-25 | Red Mountain | | Outcrop | | I3G Anorthosite | White |
| 1418-21HL044 | 141890023 | 452430,1 | 5705974,2 | 494,6 | 2021-05-25 | Red Mountain | Yes | Outcrop | | I3G Anorthosite | |
| 1418-21HL045 | | 452414,5 | 5706012,0 | 493,8 | 2021-05-25 | Red Mountain | | Outcrop | | I3H Gabbroic anorthosite | White |
| 1418-21HL046 | | 452354,3 | 5706038,6 | 496,0 | 2021-05-25 | Red Mountain | | Outcrop | | I3H Gabbroic anorthosite | White |
| 1418-21HL047 | 141890021 | 452380,1 | 5706051,1 | 494,9 | 2021-05-25 | Red Mountain | No | Outcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL048 | | 452433,1 | 5706180,6 | 497,6 | 2021-05-25 | Red Mountain | | Outcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL049 | | 452416,0 | 5706211,7 | 493,8 | 2021-05-25 | Red Mountain | | Outcrop | | I3I Gabbro anorthositique | |
| 1418-21HL050 | 141890025 | 451165,1 | 5700730,8 | 517,9 | 2021-05-25 | Red Mountain | Yes | Outcrop | | I3G Anorthosite | |
| 1418-21HL051 | | 451420,1 | 5702014,7 | 518,8 | 2021-05-27 | GEM | | Subcrop | | I3G Anorthosite | |
| 1418-21HL052 | | 451364,4 | 5702010,1 | 520,8 | 2021-05-27 | GEM | | Outcrop | | I3G Anorthosite | White |
| 1418-21HL053 | 141890026 | 451434,2 | 5701998,2 | 528,5 | 2021-05-27 | GEM | No | Subcrop | | I3 Roches intrusives mafiques | Grey |
| 1418-21HL054 | 141890027 | 451441,6 | 5702015,0 | 519,4 | 2021-05-27 | GEM | No | Subcrop | | I3G Anorthosite | |

| Station | Sample number | Litho texture 1 | Litho texture 2 | Alteration | Intensity | Mineralization 1 | % | Mineralization 2 | % | Structure Main | Strike | Dip |
|---------------|---------------|-----------------|-----------------|------------|-----------|------------------|------|------------------|------|-------------------|--------|-----|
| 1418-21AB001 | | Equigranular | Homogeneous | | | PO | 2.0 | | | | | |
| 1418-21AB002 | | Gradual contact | | | | PO | | | | | | |
| 1418-21AB003 | 141890018 | Gneissic | | Hem | | | | | | Mineral foliation | 80 | 70 |
| 1418-21AB004 | 141890020 | | | Hem | 2 | | | | | Mineral foliation | 238 | 82 |
| 1418-21HL001 | 141890001 | | | | | | | | | | | |
| 1418-21HL002 | | | | | | | | | | | | |
| 1418-21HL003 | | Massive | | | | | | | | | | |
| 1418-21HL004 | | Pegmatitic | Massive | | | | | | | | | |
| 1418-21HL005 | | Massive | | | | | | | | | | |
| 1418-21HL006 | 141890002-3 | Massive | | | | PY | 1.0 | PO | 1.0 | Mineralized zone | 20 | 57 |
| 1418-21HL007 | | Massive | | | | | | | | | | |
| 1418-21HL008 | 141890004 | Massive | | | | | | | | | | |
| 1418-21HL009 | | Foliated | | | | | | | | Mineral foliation | 252 | 70 |
| 1418-21HL010 | 141890005-6 | Gossan | | | | | | | | | | |
| 1418-21HL011 | | | | | | | | | | | | |
| 1418-21HL012 | | | | | | | | | | | | |
| 1418-21HL013 | | | | Lim | 4 | PO | 1.0 | | | | | |
| 1418-21HL014 | | | | | | | | | | | | |
| 1418-21HL015 | | | | | | | | | | | | |
| 1418-21HL016 | | Massive | | | | | | | | | | |
| 1418-21HL017 | | | | | | | | | | | | |
| 1418-21HL018 | | Gneissic | | | | | | | | | | |
| 1418-21HL019 | | | | | | | | | | | | |
| 1418-21HL020 | 141890007 | Massive | | | | PO | 60.0 | PY | 10.0 | Mineralized zone | 332 | 0 |
| 1418-21HL021 | | | | | | | | | | | | |
| 1418-21HL022 | | | | | | | | | | | | |
| 1418-21HL023 | 141890008-11 | Foliated | | | | PY | 5.0 | | | | | |
| 1418-21HL024 | | Gossan | | | | | | | | | | |
| 1418-21HL025 | 141890012 | Massive | | | | PO | 5.0 | MG | 25.0 | | | |
| 1418-21HL026 | 141890013 | | | | | PY | 1.0 | MG | 40.0 | | | |
| 1418-21HL027 | 141890151 | Foliated | | | | | | | | Mineral foliation | 210 | 50 |
| 1418-21HL028 | 141890014 | | | | | PO | 50.0 | PO | 25.0 | | | |
| 1418-21HL029 | | | | | | | | | | | | |
| 1418-21HL030 | | Gneissic | | | | | | | | | | |
| 1418-21HL031 | | | | | | | | | | | | |
| 1418-21HL032 | 141890016 | | | | | | | | | | | |
| 1418-21HL032b | 141890015 | | | | | | | | | | | |
| 1418-21HL033 | | | | | | | | | | | | |
| 1418-21HL034 | | | | | | | | | | | | |
| 1418-21HL035 | 141890019 | | | | | | | | | | | |
| 1418-21HL036 | | Gneissic | | | | | | | | | | |
| 1418-21HL037 | | | | | | | | | | | | |
| 1418-21HL038 | 141890022 | Massive | Foliated | | | | | | | Mineral foliation | 240 | 72 |
| 1418-21HL039 | | Foliated | | | | | | | | Mineral foliation | 242 | 70 |
| 1418-21HL040 | 141890024 | Foliated | | | | | | | | Mineral foliation | 240 | 66 |
| 1418-21HL041 | | Massive | Foliated | | | | | | | | | |
| 1418-21HL042 | | Foliated | | | | | | | | | | |
| 1418-21HL043 | | Massive | | | | | | | | | | |
| 1418-21HL044 | 141890023 | | | | | | | | | | | |
| 1418-21HL045 | | Foliated | | | | | | | | Mineral foliation | 254 | 60 |
| 1418-21HL046 | | Massive | | | | | | | | | | |
| 1418-21HL047 | 141890021 | | | | | | | | | Dyke | 90 | 74 |
| 1418-21HL048 | | | | | | | | | | | | |
| 1418-21HL049 | | | | | | | | | | Mineral foliation | 270 | 75 |
| 1418-21HL050 | 141890025 | Massive | | | | | | | | | | |
| 1418-21HL051 | | | | | | | | | | | | |
| 1418-21HL052 | | Massive | | | | | | | | | | |
| 1418-21HL053 | 141890026 | | | | | PO | | | | Dyke | 340 | 90 |
| 1418-21HL054 | 141890027 | | | | | PO | | | | | | |

| Station | Sample number | Description |
|---------------|---------------|--|
| 1418-21AB001 | | |
| 1418-21AB002 | | |
| 1418-21AB003 | 141890018 | Intermediate intrusive with pyroxene layers. Gneissic. |
| 1418-21AB004 | 141890020 | Could be a boulder |
| 1418-21HL001 | 141890001 | Outcrop NW of a tiny ridge W of a magnetic anomaly. Medium- to fine-grained mafic rock (gabbro). Not magnetic. Massive. A few felsic pods. |
| 1418-21HL002 | | Medium-grained, rosy white rock. Mangerite ? . A magmatic foliation is highlighted by the aligned pyroxenes. A few mafic fragments (gabbro) are present. |
| 1418-21HL003 | | Fine- to medium-grained. Magnetic. |
| 1418-21HL004 | | Medium-grained with coarse plagioclase. Magnetite fragments (mm to cm). Interstitial quartz. Red interstitial mineral in the pegmatitic part of the outcrop. 10-25% mafic (px). 15% K-spars. |
| 1418-21HL005 | | Intrusive. Intermediate to felsic. Less than 5% mafic minerals. Non magnetic, but presence of small magnetite clusters. |
| 1418-21HL006 | 141890002-3 | Dark and very dense rock. Medium-grained. Labradorite? Little to non magnetic. Ultramafic rock. Thin fractured zone with 10% sulphides (Py-Po). Apple green spot (malachite ?). It is difficult to measure the dip of the fracture, or to define if there are two intersecting fracture sets. |
| 1418-21HL007 | | Medium-grained with a granitic look. Weathered surface has a pinkish beige color. 30% mafic minerals (+ oxides). Moderately to strongly magnetic. |
| 1418-21HL008 | 141890004 | Dark and very dense rock. Likely ultramafic. Similar to the one at 1418-21HL006. Very few sulphides. |
| 1418-21HL009 | | Intrusive with a milky grey colour. Grains are poorly defined, but the high proportion of white minerals (>95%) signifies that it is likely plagioclase. Likely fine-grained anorthosite. |
| 1418-21HL010 | 141890005-6 | Thoroughly oxidized rock, likely a gossan. Highly oxidized ultramafic. Ilmenite? One sample is a poorly cohesive (leached) rock. |
| 1418-21HL011 | | Poorly exposed. Gabbro. |
| 1418-21HL012 | | Pegmatite. Likely related to the gabbro. |
| 1418-21HL013 | | Beepmat-detected conductor (18 inches deep). The few recovered fragments suggest a pyrrhotite-rich ultramafic rock. |
| 1418-21HL014 | | Small fragments from a 12 inches deep hole. |
| 1418-21HL015 | | Small fragments from a 12 inches deep hole. Labradorite ? |
| 1418-21HL016 | | Granitic texture. Fine- to medium-grained. |
| 1418-21HL017 | | Same as 1418-20HL016 but darker. |
| 1418-21HL018 | | Small hole showing a gneissic rock. |
| 1418-21HL019 | | Diorite? Gabbro? Gneiss? Slightly magnetic. |
| 1418-21HL020 | 141890007 | Trench with a meter-thick mineralized zone composed of 10% sulphides (Py-Po). This zone is found in an anorthositic gabbro. The gabbro itself is weakly magnetic. |
| 1418-21HL021 | | Small granular surface underneath a large boulder. Fine- to medium-grained. Traces of magnetite. Leucogabbro? |
| 1418-21HL022 | | Small dug-out surface. Light coloured intrusive with 10-15% magnetic clusters (cm-size) |
| 1418-21HL023 | 141890008-11 | Intermediate rock with biotite. Weakly mineralized (Po, Py). Medium-grained. Mafic clusters are a few cm-long and are moderately magnetic. Sulphides are disseminated or in veinlets. There is a strong sulphides-biotite association. The outcrop is covered with a highly oxidized conductive sand. Several fragments of the outcrop can be crushed by hand suggesting intense leaching. |
| 1418-21HL024 | | Highly magnetic zone (beepmat). Oxidized crust with a hollow sound. Oxidized crust or boulder. |
| 1418-21HL025 | 141890012 | Old blast showing the contact between the anorthosite and the biotite-bearing intermediate rock. Veinlets and pods of sulphides in the anorthosite. Semi-massive sulphides at the contacts between the two lithologies. Contact at 340 degrees. |
| 1418-21HL026 | 141890013 | Fragments from the EM2 trench. No outcrop nearby. Sample for assay and thin section. |
| 1418-21HL027 | 141890151 | White rock both on weathered and fresh surfaces. Granular. Fine-grained. Biotite (5%) and traces of magnetite. It is difficult to measure the foliation due to low proportion of dark minerals. |
| 1418-21HL028 | 141890014 | Trench (3 m long) where the gneiss is cut by a 50 cm-wide lens of pyrrhotite. Traces of chalcopyrite. Strong weathering (oxidation). Lense oriented at 210 degrees. |
| 1418-21HL029 | | Similar to 1418-21HL027 |
| 1418-21HL030 | | Gneiss. Moderately developed gneissosity. 30% biotite in dark bands and 5% in light bands. |
| 1418-21HL031 | | Small gneiss outcrop with a cm-wide lens of pyrrhotite at 246 degrees. |
| 1418-21HL032 | 141890016 | Massive sulphides (Po). 18 inches deep hole. |
| 1418-21HL032b | 141890015 | Rounded bloc of massive sulphides. Grey with coppery luster. Moderately to strongly magnetic. |
| 1418-21HL033 | | White rock formed of white cm-size lumps surrounded by thin layers of magnetite. Each lumps has a sugary texture and is composed of plagioclase with traces of quartz. |
| 1418-21HL034 | | Magnetite (?) and sulphides (po) zone. |
| 1418-21HL035 | 141890019 | Strongly weathered grey gneiss. Beepmat gives a conductive signal. Weakly magnetic, very few visible sulphides. |
| 1418-21HL036 | | Wide gneiss outcrop with few rusty zones and magnetite clusters. Beepmat gives local conductive signal but without massive sulphides. |
| 1418-21HL037 | | Grey gneiss cut by a medium-grained granite. Contact at 240 degrees. Few sulphide grains in the gneiss. |
| 1418-21HL038 | 141890022 | Intermediate intrusive with 20% pyroxenes. Fine- to medium-grained. Very little magnetite. Few anorthositic (?) bands. Small, coarser-grained, mm-wide dykes cut the intermediate intrusive and are not foliated. Dykes at 206 28 (structure 3). |
| 1418-21HL039 | | Similar to 1418-21HL038, but with more developed gneissosity. |
| 1418-21HL040 | 141890024 | Strongly foliated intermediate rock similar to what is seen in gneiss. Biotite. |
| 1418-21HL041 | | Wide outcrop composed of mangerite and anorthosite. The anorthosite is fine-grained, has a granular texture and is barren of mafic minerals. Zone with 20-25% pyroxene are weakly foliated. |
| 1418-21HL042 | | White rock with 25% mafic minerals (pyroxenes ?) and traces of oxides. Oxides are weakly magnetic (ilmenite?). Felsics form rounded pods with a granular texture. |
| 1418-21HL043 | | Fine-grained anorthosite. Few mm-size idiomorphic grains. |
| 1418-21HL044 | 141890023 | Granular anorthosite with, locally, 15% mafics. |
| 1418-21HL045 | | Granular anorthosite with 15-20% deformed pyroxenes. Traces of magnetite. |
| 1418-21HL046 | | Granular white anorthosite with 20% deformed pyroxenes. Traces of magnetite. |
| 1418-21HL047 | 141890021 | Anorthosite with 20-25% mafics. Cut by a 30 cm-wide mafic dyke with traces of sulphides. It is difficult to trace the contacts possibly because it is undulating and fairly flat. Sample comes from the dyke. |
| 1418-21HL048 | | Granular white anorthosite with 5% pyroxenes. Traces of magnetite. Foliated |
| 1418-21HL049 | | Same as 1418-21HL048 but with up to 30% pyroxenes. Cm-size cluster of ilmenite (?). |
| 1418-21HL050 | 141890025 | Anorthosite. Massive but with subtle compositional changes. A boulder shows dm-size pyroxene with a biotite corona. |
| 1418-21HL051 | | Poor quality outcrop. |
| 1418-21HL052 | | Wide outcrop of medium-grained anorthosite. Less than 1% mafic minerals. |
| 1418-21HL053 | 141890026 | Impossible to surely identify the rock but it is not the anorthosite. Blood-coloured oxidation surface. Pyrrhotite with possible bravoite. Beepmat indicates a conductive area (24 000). |
| 1418-21HL054 | 141890027 | Bluish grey, fine-grained anorthosite with 5% sulphides. Dug-out (80 cm deep hole). Beepmat indicates a weak conductive zone (2600) over 100 sq.m. |

| Station | Sample number | UTM NAD 83 X | UTM NAD 83 Y | Z (m) | Date | Area | Witness sample | Outcrop / Boulder | Size | Lithology | Colour |
|--------------|---------------|--------------|--------------|-------|------------|------|----------------|-------------------|------|--------------------------|--------|
| 1418-21HL055 | | 449720,6 | 5705510,9 | 593,4 | 2021-05-29 | PGE | | Subcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL056 | 141890029 | 449840,5 | 5705448,2 | 591,7 | 2021-05-29 | PGE | No | Subcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL057 | 141890028 | 449845,6 | 5705426,6 | 592,7 | 2021-05-29 | PGE | No | Subcrop | | I4 Ultramafic intrusive | Black |
| 1418-21HL058 | 141890030-31 | 449867,8 | 5705429,1 | 599,5 | 2021-05-29 | PGE | No | Subcrop | | I3 Mafic intrusive | Black |
| 1418-21HL059 | 141890032-35 | 449866,5 | 5705390,6 | 595,2 | 2021-05-29 | PGE | No | Subcrop | | I3 Mafic intrusive | |
| 1418-21HL060 | 141890036-37 | 450032,7 | 5705536,0 | 566,3 | 2021-05-29 | PGE | No | Subcrop | | I4 Ultramafic intrusive | Black |
| 1418-21HL061 | 141890038 | 450074,8 | 5705539,5 | 568,5 | 2021-05-29 | PGE | No | Subcrop | | I4 Ultramafic intrusive | |
| 1418-21HL062 | | 448804,5 | 5703445,7 | 542,0 | 2021-05-30 | PGE | | Subcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL063 | | 448757,3 | 5703436,9 | 548,1 | 2021-05-30 | PGE | | Outcrop | | I3H Gabbroic anorthosite | |
| 1418-21HL064 | 141890039 | 448715,9 | 5703351,2 | 547,0 | 2021-05-30 | PGE | | Subcrop | | I4 Ultramafic intrusive | |

| Station | Sample number | Litho texture 1 | Litho texture 2 | Alteration | Intensity | Mineralization 1 | % | Mineralization 2 | % | Structure Main | Strike | Dip |
|--------------|---------------|-----------------|-----------------|------------|-----------|------------------|-----|------------------|---|-------------------|--------|-----|
| 1418-21HL055 | | | | | | | | | | | | |
| 1418-21HL056 | 141890029 | Brecciated | Foliated | | | PO | 5.0 | | | Mineral foliation | 220 | 84 |
| 1418-21HL057 | 141890028 | | | | | | | | | | | |
| 1418-21HL058 | 141890030-31 | Massive | | | | | | | | | | |
| 1418-21HL059 | 141890032-35 | | | | | | | | | | | |
| 1418-21HL060 | 141890036-37 | | | | | | | | | | | |
| 1418-21HL061 | 141890038 | | | | | | | | | | | |
| 1418-21HL062 | | | | | | | | | | | | |
| 1418-21HL063 | | Foliated | | | | | | | | Mineral foliation | 226 | 88 |
| 1418-21HL064 | 141890039 | | | | | | | | | | | |

| Station | Sample number | Description |
|--------------|---------------|--|
| 1418-21HL055 | | Little subcrop of what has been previously mapped as mangerite but is a gabbroic anorthosite. Average 15% mafic. Medium-grained and weakly magnetic. |
| 1418-21HL056 | 141890029 | Complex outcrop with gneiss (or gneiss fragments), dark magnetic layers (UM dykes?) and bands (dykes?) cut by a gabbroic anorthosite. Few sulphides. |
| 1418-21HL057 | 141890028 | Dark magnetic rock (UM) with pods of massive sulphides. Bravoite (?). Beepmat at 12 000. |
| 1418-21HL058 | 141890030-31 | Dark fine-grained rock. Weakly magnetic. Seems to contains 5% of plagioclase in aphanitic clusters. Traces of sulphides. Small pod of sulphides at the edge of the dyke. |
| 1418-21HL059 | 141890032-35 | Conductive subcrop (Beepmat at 13 000). Trenched over 2 meters. On the east side, there is strongly oxidized mafic dyke (?) with 5% sulphides. At the center and west of the trench there are semi-massive sulphides (Po). |
| 1418-21HL060 | 141890036-37 | Mafic to ultramafic intrusive. Magnetic. Fine-grained (acicular pyroxenes). Traces of sulphides with more important concentration along fractures. Appears to be a 15 m-wide dyke oriented at 340 degrees. Historic showing. |
| 1418-21HL061 | 141890038 | Old blast with dark medium-grained rock. Up to 25% sulphides. |
| 1418-21HL062 | | White sugary rock with 5-10% mafics (pyroxenes, biotite) and oxides. Felsics are plagioclases (traces of labradorite). |
| 1418-21HL063 | | Gabbroic anorthosite with 15% mafics. |
| 1418-21HL064 | 141890039 | Weakly magnetic dark rock (UM) with sulphides (Po). Small trench, 12 inches deep, under conductive beepmat signal. Signal at 12400 once dug-out. |

APPENDIX 3

ROCK ANALYSIS

Table 1: Platinum group elements analysis by fire assay and multi-elements by ICP-AES aqua regia digestion for some samples and whole rock analysis for others selected samples (ALS Minerals)

| PROJECT NUMBER | SAMPLE | ME-XRF26 | | | | | | | | | | | | | | PGM-23 | | | S-IR08 | | |
|----------------|------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|--------|--------|--------|-------|
| | | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total | LOI 1000 | Au | Pt | Pd | S |
| | | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm | ppm | % |
| Nb | 39 | 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 | 0.01 | 0.01 | 0.001 | 0.005 | 0.001 | 0.01 | |
| Compte | Historique | 91 | 91 | 58 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 97 | 2964 | 2964 | 2964 | 316 | |
| 99 Percentile | Historique | 26.35 | 2.12 | 12.11 | 0.28 | 80.91 | 5.46 | 25.44 | 0.66 | 5.62 | 0.34 | 3.65 | 99.35 | 0.47 | 9.32 | 102.79 | 10.09 | 0.141 | 0.173 | 0.198 | 26.06 |
| Moyenne | Historique | 5.92 | 0.15 | 3.31 | 0.03 | 17.32 | 0.49 | 5.23 | 0.21 | 0.87 | 0.06 | 0.66 | 27.69 | 0.07 | 1.14 | 100.07 | 3.34 | 0.007 | 0.014 | 0.017 | 11.53 |
| Écart-type | Historique | 7.77 | 0.54 | 3.86 | 0.07 | 22.36 | 1.04 | 7.03 | 0.15 | 1.55 | 0.09 | 0.77 | 28.21 | 0.09 | 2.39 | 0.76 | 4.00 | 0.069 | 0.203 | 0.220 | 7.36 |
| Maximum | Historique | 26.50 | 4.66 | 12.20 | 0.44 | 86.52 | 5.86 | 26.70 | 0.67 | 6.12 | 0.34 | 4.09 | 99.80 | 0.48 | 15.90 | 103.15 | 10.41 | 3.270 | 7.090 | 9.930 | 39.70 |
| Minimum | Historique | 0.05 | -0.01 | -0.01 | -0.01 | 0.20 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.15 | -0.01 | -0.01 | 98.81 | -3.14 | -0.001 | -0.005 | -0.001 | -0.01 |
| Compte | Projet | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 25 | 25 | 25 | 25 | 4 | |
| Moyenne | Projet | 15.05 | 0.12 | 4.16 | 0.07 | 11.13 | 1.79 | 8.06 | 0.17 | 3.15 | 0.07 | 1.02 | 54.27 | 0.06 | 0.74 | 100.60 | 0.57 | 0.048 | 0.041 | 0.070 | 22.60 |
| Écart-type | Projet | 8.24 | 0.16 | 2.51 | 0.13 | 8.78 | 2.04 | 9.89 | 0.18 | 2.11 | 0.08 | 1.25 | 5.11 | 0.05 | 0.42 | 1.35 | 0.79 | 0.072 | 0.046 | 0.066 | 2.50 |
| Maximum | Projet | 26.33 | 0.50 | 8.79 | 0.44 | 25.16 | 5.86 | 22.80 | 0.60 | 5.56 | 0.32 | 4.09 | 61.68 | 0.15 | 1.57 | 103.15 | 2.53 | 0.333 | 0.178 | 0.252 | 26.10 |
| Minimum | Projet | 2.01 | -0.01 | 1.27 | -0.01 | 1.11 | 0.01 | 0.32 | 0.01 | 0.10 | 0.02 | 0.13 | 46.95 | -0.01 | 0.11 | 98.81 | -0.71 | -0.001 | -0.005 | 0.002 | 20.30 |
| 1418 | 141890001 | | | | | | | | | | | | | | | | | -0.001 | -0.005 | 0.003 | |
| 1418 | 141890002 | | | | | | | | | | | | | | | | | 0.084 | 0.016 | 0.01 | |
| 1418 | 141890003 | | | | | | | | | | | | | | | | | -0.001 | -0.005 | 0.003 | |
| 1418 | 141890004 | | | | | | | | | | | | | | | | | 0.001 | -0.005 | 0.002 | |
| 1418 | 141890005 | | | | | | | | | | | | | | | | | 0.02 | -0.005 | 0.003 | |
| 1418 | 141890006 | | | | | | | | | | | | | | | | | 0.04 | 0.057 | 0.133 | |
| 1418 | 141890007 | | | | | | | | | | | | | | | | | 0.021 | 0.178 | 0.082 | 21.50 |
| 1418 | 141890008 | 18.64 | 0.06 | 5.34 | 0.01 | 6.54 | 1.76 | 4.79 | 0.08 | 3.55 | 0.06 | 0.42 | 56.8 | 0.08 | 0.55 | 99.86 | 1.04 | | | | |
| 1418 | 141890009 | 19.48 | 0.06 | 5.02 | 0.02 | 8.01 | 1.46 | 1.75 | 0.03 | 4.43 | 0.08 | 1.49 | 56.3 | 0.09 | 1.57 | 101.45 | 1.49 | | | | |
| 1418 | 141890010 | | | | | | | | | | | | | | | | | -0.001 | 0.005 | 0.008 | |
| 1418 | 141890011 | | | | | | | | | | | | | | | | | 0.032 | 0.025 | 0.06 | |
| 1418 | 141890012 | | | | | | | | | | | | | | | | | -0.001 | 0.017 | 0.016 | |
| 1418 | 141890013 | | | | | | | | | | | | | | | | | 0.002 | -0.005 | 0.019 | 22.50 |
| 1418 | 141890014 | | | | | | | | | | | | | | | | | 0.055 | 0.092 | 0.07 | |
| 1418 | 141890015 | | | | | | | | | | | | | | | | | 0.027 | 0.024 | 0.18 | 26.10 |
| 1418 | 141890016 | | | | | | | | | | | | | | | | | 0.333 | 0.006 | 0.162 | 20.30 |
| 1418 | 141890018 | 2.01 | -0.01 | 1.35 | 0.16 | 21.99 | 0.01 | 22.8 | 0.6 | 0.1 | 0.04 | 0.64 | 51.03 | -0.01 | 0.29 | 100.85 | -0.43 | | | | |
| 1418 | 141890019 | 13.9 | 0.13 | 2.52 | 0.26 | 9.82 | 2.46 | 1.47 | 0.05 | 3.28 | 0.13 | 1.33 | 61.68 | 0.05 | 0.97 | 101 | 2.53 | | | | |
| 1418 | 141890020 | 18.14 | 0.28 | 2.9 | -0.01 | 5.01 | 5.86 | 1.05 | 0.12 | 4.65 | 0.32 | 0.13 | 58.8 | 0.05 | 1.1 | 98.83 | 0.19 | | | | |
| 1418 | 141890021 | 4.27 | -0.01 | 1.51 | 0.02 | 22.69 | 0.04 | 21.3 | 0.28 | 0.22 | 0.02 | 3.03 | 47.49 | -0.01 | 0.61 | 102.75 | 0.95 | | | | |
| 1418 | 141890022 | 20.97 | 0.08 | 6.85 | 0.01 | 7.24 | 0.93 | 4.78 | 0.07 | 4.26 | 0.02 | 0.17 | 52.78 | 0.12 | 1.34 | 99.87 | 0.17 | | | | |
| 1418 | 141890023 | 26.33 | 0.09 | 8.79 | -0.01 | 1.11 | 1.05 | 0.32 | 0.01 | 5.56 | 0.02 | 0.13 | 56.22 | 0.15 | 0.11 | 100.15 | 0.26 | | | | |
| 1418 | 141890024 | 19.75 | 0.42 | 2.81 | 0.01 | 3.55 | 5.42 | 0.96 | 0.05 | 5.15 | 0.03 | 0.17 | 60.96 | 0.08 | 0.82 | 100.65 | 0.41 | | | | |
| 1418 | 141890025 | 26.06 | 0.05 | 8.67 | 0.01 | 2.03 | 0.96 | 1.13 | 0.03 | 5.17 | 0.03 | 0.2 | 54.87 | 0.13 | 0.17 | 100.3 | 0.75 | | | | |
| 1418 | 141890026 | | | | | | | | | | | | | | | | | 0.03 | 0.061 | 0.057 | |
| 1418 | 141890027 | | | | | | | | | | | | | | | | | 0.031 | 0.096 | 0.062 | |
| 1418 | 141890028 | | | | | | | | | | | | | | | | | 0.059 | 0.034 | 0.093 | |
| 1418 | 141890029 | 6.14 | 0.03 | 3.07 | 0.44 | 21.79 | 0.22 | 18.75 | 0.35 | 0.57 | 0.16 | 0.22 | 46.95 | 0.01 | 0.84 | 99.02 | -0.71 | | | | |
| 1418 | 141890030 | | | | | | | | | | | | | | | | | 0.056 | 0.014 | 0.032 | |
| 1418 | 141890031 | 3.89 | 0.01 | 1.27 | 0.04 | 25.16 | 0.05 | 19.55 | 0.38 | 0.24 | 0.02 | 4.09 | 47.16 | 0.01 | 0.59 | 103.15 | 0.43 | | | | |
| 1418 | 141890032 | | | | | | | | | | | | | | | | | 0.061 | 0.03 | 0.058 | |
| 1418 | 141890033 | | | | | | | | | | | | | | | | | 0.068 | 0.085 | 0.097 | |
| 1418 | 141890034 | 10.92 | 0.02 | 4.09 | 0.02 | 17.98 | 0.28 | 13.15 | 0.26 | 1.81 | 0.03 | 2.03 | 49.77 | 0.05 | 0.68 | 101.75 | 0.45 | | | | |
| 1418 | 141890035 | | | | | | | | | | | | | | | | | 0.194 | 0.04 | 0.08 | |
| 1418 | 141890036 | | | | | | | | | | | | | | | | | -0.001 | 0.005 | 0.009 | |
| 1418 | 141890037 | | | | | | | | | | | | | | | | | 0.015 | 0.095 | 0.132 | |
| 1418 | 141890038 | | | | | | | | | | | | | | | | | 0.022 | 0.084 | 0.138 | |
| 1418 | 141890039 | | | | | | | | | | | | | | | | | 0.054 | 0.08 | 0.252 | |
| 1418 | 141890151 | 20.14 | 0.5 | 3.98 | -0.01 | 2.94 | 4.54 | 0.98 | 0.04 | 5.15 | 0.04 | 0.21 | 58.94 | 0.1 | 0.77 | 98.81 | 0.45 | | | | |

APPENDIX 4

ROCK ANALYTICAL QUALITY CONTROL

| | |
|---------------------------------|---|
| Analytical quality control..... | 1 |
| IOS quality control..... | 1 |
| Actlabs quality control | 2 |

Table 1: Certified reference material PTM-1a analysis (ALS Minerals)

Table 2: Blank quartz block internal reference material analysis (ALS Minerals)

Table 3: Certified reference material analysis by ALS Minerals

Table 4: Replicates analysis by ALS Minerals

ANALYTICAL QUALITY CONTROL

Quality control of chemical analyses is a complex process that must be adapted to the different projects. As part of the exploration program, quality control was carried out at two levels, by IOS and the ALS Minerals laboratory. This control was done by inserting certified reference materials, blank and analytical replicates.

IOS quality control

Analytical quality control involved the analysis of one certified reference materials and one type of blank that were inserted in the samples sequence before the shipping for analysis at ALS Minerals in Val d'Or, Québec.

The PTM-1a is a Canadian certified reference material of Natural Resources Canada was introduced twice in this project. The PTM-1a is nickel-copper sulphide matte noble metals. It is certified for gold, copper, nickel, palladium and platinum and the certified values are presented in the header of **appendix 4, table 1** with the CRM (certified reference material) results. The multi-elements results by aqua regia digestion finishing by ICP-AES shows some deviations in yellow for both reference materials but these are for uncertified items and we have no history for this reference material in the IOS databases. The reference material identified 141890017 did not have sufficient material (NSS) for the methods PGM-ICP23, Ag-OG46 and Cu-OG46 but the other (141890036,1) the results obtained are included in the confidence interval of the certified values.

Two (2) quartz blank in block was inserted among the rock samples for analysis. This material is crushed material from the La Galette quartzite (Sitec Amerique du Nord inc.) which was cleaned prior to insertion for analysis. Analytical results are presented in **table 2, appendix 4**. Some ICP-AES results (method ME-ICP41) are deviating from the historical average by more than twice (yellow) or three times (orange) the standard deviation (95% and 99.7% confidence intervals). Sample 141890026,1 is slightly contaminated in Cr, Cu and Ni. For the other 2 methods (ME-XRF26, PGM-ICP23) there are no problems detected.

ALS Minerals quality control

Results from the ALS Minerals quality control (blank, reference material and replicates) are listed in **appendix 4, tables 3 and 4**. The results are included in the confidence intervals proposed so no problem detected for all the methods for de ALS Minerals certified reference material. No problem detected for ALS Minerals replicates too.



2021-1418 - Report
HSP prospection, November 29th, 2021

Karen Gagné, chemist
OCQ n° 2003-137

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | |
|----------------|-------------------------|-------------|------------|--|-----------------|----------------|----------------|-----------------|------------------|----------------|-----------------|------------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|
| | | | | Ag ppm 0.2 | Al % 0.01 | As ppm 2 | B ppm 10 | Ba ppm 10 | Be ppm 0.5 | Bi ppm 2 | Ca % 0.01 | Cd ppm 0.5 | Co ppm 1 | Cr ppm 1 | Cu ppm 1 | Fe % 0.01 | Ga ppm 10 | Hg ppm 1 | K % 0.01 | La ppm 10 | Mg % 0.01 |
| Nb Analyses: | 2 | D.L. | | | | | | | | | | | | | | | | | | | |
| Compte | Historique | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Moyenne | Historique | | | 0,0 | 0,04 | 2315 | -10 | -10 | -0,5 | 15 | 0,01 | 3,2 | 0 | 8 | 0 | 1,39 | -10 | 1 | 0,01 | -10 | -0,01 |
| Ecart-type (σ) | Historique | | | 0,0 | 0,00 | 134 | 0 | 0 | 0,0 | 24 | 0,00 | 5,2 | 0 | 1 | 0 | 0,01 | 0 | 0 | 0,00 | 0 | 0,00 |
| Maximum | Historique | | | 0,0 | 0,04 | 2410 | -10 | -10 | -0,5 | 32 | 0,01 | 6,9 | 0 | 8 | 0 | 1,40 | -10 | 1 | 0,01 | -10 | -0,01 |
| Minimum | Historique | | | 0,0 | 0,04 | 2220 | -10 | -10 | -0,5 | -2 | 0,01 | -0,5 | 0 | 7 | 0 | 1,38 | -10 | 1 | 0,01 | -10 | -0,01 |
| X+2σ | Historique | | | 0,0 | 0,04 | 2584 | -10 | -10 | -0,5 | 63 | 0,01 | 13,7 | 0 | 9 | 0 | 1,42 | -10 | 1 | 0,01 | -10 | -0,01 |
| X-2σ | Historique | | | 0,0 | 0,04 | 2046 | -10 | -10 | -0,5 | -33 | 0,01 | -7,3 | 0 | 6 | 0 | 1,36 | -10 | 1 | 0,01 | -10 | -0,01 |
| N > X+2σ | Historique | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N < X-2σ | Historique | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compte | Projet | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Moyenne | Projet | | | #DIV/0! | 0,04 | 2315 | -10 | -10 | -0,5 | 15 | 0,01 | 3,2 | #DIV/0! | 8 | #DIV/0! | 1,39 | -10 | 1 | 0,01 | -10 | -0,01 |
| Ecart-type | Projet | | | #DIV/0! | 0,00 | 134 | 0 | 0 | 0,0 | 24 | 0,00 | 5,2 | #DIV/0! | 1 | #DIV/0! | 0,01 | 0 | 0 | 0,00 | 0 | 0,00 |
| Maximum | Projet | | | 0,0 | 0,04 | 2410 | -10 | -10 | -0,5 | 32 | 0,01 | 6,9 | 0 | 8 | 0 | 1,40 | -10 | 1 | 0,01 | -10 | -0,01 |
| Minimum | Projet | | | 0,0 | 0,04 | 2220 | -10 | -10 | -0,5 | -2 | 0,01 | -0,5 | 0 | 7 | 0 | 1,38 | -10 | 1 | 0,01 | -10 | -0,01 |
| X+2σ | Projet | | | #DIV/0! | 0,04 | 2584 | -10 | -10 | -0,5 | 63 | 0,01 | 13,7 | #DIV/0! | 9 | #DIV/0! | 1,42 | -10 | 1 | 0,01 | -10 | -0,01 |
| X-2σ | Projet | | | #DIV/0! | 0,04 | 2046 | -10 | -10 | -0,5 | -33 | 0,01 | -7,3 | #DIV/0! | 6 | #DIV/0! | 1,36 | -10 | 1 | 0,01 | -10 | -0,01 |
| PTM-1 | Limite inférieure (-2σ) | | | | | | | | | | | | | | | | | | | | |
| PTM-1 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | |
| PTM-1 | Limite supérieure (+2σ) | | | | | | | | | | | | | | | | | | | | |
| 1418 | 141890017 | VO21153815 | 2021-07-27 | >100 | 0,04 | 2410 | -10 | -10 | -0,5 | -2 | 0,01 | 6,9 | >10000 | 8 | >10000 | 1,40 | -10 | 1 | 0,01 | -10 | -0,01 |
| 1418 | 141890036,1 | VO21153815 | 2021-07-27 | >100 | 0,04 | 2220 | -10 | -10 | -0,5 | 32 | 0,01 | -0,5 | >10000 | 7 | >10000 | 1,38 | -10 | 1 | 0,01 | -10 | -0,01 |

ANALYTICAL QUALITY CONTROL:
PTM-1a CERTIFIED REFERENCE MATERIAL ANALYSIS

| ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | PGM-ICP23 | | | Ag-OG46 | Cu-OG46 | |
|--|-------|---------|-----|-----|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----------|---------|---------|---------|---------|---|
| Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr | Th | Ti | Tl | U | V | W | Zn | Au | Pt | Pd | Ag | Cu | |
| ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | |
| 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 0.001 | 0.005 | 0.001 | 1 | 0.001 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 15 | 0.00 | 0 | 0 | 328 | 7.14 | 2 | 2 | 17 | -20 | -0.01 | 0 | 0 | 1 | 5 | 17 | 1,635 | 3,545 | 4,965 | 65 | 12 | |
| 1 | 0.01 | 0 | 14 | 21 | 0.04 | 6 | 4 | 25 | 0 | 0.00 | 14 | 14 | 0 | 21 | 1 | 2,312 | 5,013 | 7,022 | 92 | 18 | |
| 16 | 0.01 | 0 | 10 | 342 | 7.16 | 6 | 4 | 34 | -20 | -0.01 | 10 | 10 | 1 | 20 | 17 | 3,270 | 7,090 | 9,930 | 130 | 25 | |
| 14 | -0.01 | 0 | -10 | 313 | 7.11 | -2 | -1 | -1 | -20 | -0.01 | -10 | -10 | 1 | -10 | 16 | 3,270 | 7,090 | 9,930 | 130 | 25 | |
| 18 | 0.03 | 0 | 28 | 369 | 7.21 | 13 | 9 | 66 | -20 | -0.01 | 28 | 28 | 1 | 47 | 18 | 6,259 | 13,572 | 19,008 | 249 | 47 | |
| 12 | -0.03 | 0 | -28 | 286 | 7.06 | -9 | -6 | -33 | -20 | -0.01 | -28 | -28 | 1 | -37 | 15 | -2,989 | -6,482 | -9,078 | -119 | -23 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 15 | 0.00 | #DIV/0! | 0 | 328 | 7.14 | 2 | 2 | 17 | -20 | -0.01 | 0 | 0 | 1 | 5 | 17 | 3,270 | 7,090 | 9,930 | 130 | 25 | |
| 1 | 0.01 | #DIV/0! | 14 | 21 | 0.04 | 6 | 4 | 25 | 0 | 0.00 | 14 | 14 | 0 | 21 | 1 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| 16 | 0.01 | 0 | 10 | 342 | 7.16 | 6 | 4 | 34 | -20 | -0.01 | 10 | 10 | 1 | 20 | 17 | 3,270 | 7,090 | 9,930 | 130 | 25 | |
| 14 | -0.01 | 0 | -10 | 313 | 7.11 | -2 | -1 | -1 | -20 | -0.01 | -10 | -10 | 1 | -10 | 16 | 3,270 | 7,090 | 9,930 | 130 | 25 | |
| 18 | 0.03 | #DIV/0! | 28 | 369 | 7.21 | 13 | 9 | 66 | -20 | -0.01 | 28 | 28 | 1 | 47 | 18 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| 12 | -0.03 | #DIV/0! | -28 | 286 | 7.06 | -9 | -6 | -33 | -20 | -0.01 | -28 | -28 | 1 | -37 | 15 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| | | | | | | | | | | | | | | | | 3.10 | 7.07 | 9.66 | | 24.92 | |
| | | | | | | | | | | | | | | | | 3.30 | 7.29 | 10.07 | | 24.96 | |
| | | | | | | | | | | | | | | | | 3.50 | 7.51 | 10.48 | | 25.00 | |
| 16 | -0.01 | >10000 | -10 | 342 | 7.11 | -2 | 4 | -1 | -20 | -0.01 | 10 | -10 | 1 | -10 | 17 | NSS | NSS | NSS | NSS | NSS | |
| 14 | 0.01 | >10000 | 10 | 313 | 7.16 | 6 | -1 | 34 | -20 | -0.01 | -10 | 10 | 1 | 20 | 16 | 3.27 | 7.09 | 9.93 | 130 | 24.8 | |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-------------|-------------|------------|--|------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|-------|--------|-------|--------|--------|-------|--------|-------|--------|-------|----|
| | | | | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | |
| Nb Analyses: | 2 | D.L. | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | |
| Compte | Historique | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| N > LD | Historique | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Moyenne | Historique | | | -0.2 | 0.03 | -1 | -10 | -10 | -0.5 | -2 | 0.00 | -0.5 | -1 | 12 | 2 | 0.35 | -10 | -1 | -0.01 | 10 | 0.00 | 36 | 0 | -0.01 | 2 | 15 | -2 | 0.00 | |
| Écart-type (σ) | Historique | | | 0.0 | 0.01 | 3 | 0 | 0 | 0.0 | 0 | 0.01 | 0.0 | 1 | 5 | 1 | 0.06 | 0 | 0 | 0.01 | 0 | 0.01 | 7 | 1 | 0.01 | 4 | 5 | 0 | 0.02 | |
| Maximum | Historique | | | -0.2 | 0.04 | 8 | -10 | -10 | -0.5 | -2 | 0.02 | -0.5 | 1 | 25 | 6 | 0.44 | -10 | -1 | 0.01 | 10 | 0.02 | 49 | 3 | 0.01 | 15 | 20 | -2 | 0.04 | |
| Minimum | Historique | | | -0.2 | 0.02 | -2 | -10 | -10 | -0.5 | -2 | -0.01 | -0.5 | -1 | 6 | 1 | 0.24 | -10 | -1 | -0.01 | 10 | -0.01 | 22 | -1 | -0.01 | -1 | 10 | -2 | -0.01 | |
| X+2σ | Historique | | | -0.2 | 0.04 | 4 | -10 | -10 | -0.5 | -2 | 0.02 | -0.5 | 0 | 22 | 4 | 0.46 | -10 | -1 | 0.01 | 10 | 0.02 | 50 | 2 | 0.01 | 10 | 25 | -2 | 0.03 | |
| X'-2σ | Historique | | | -0.2 | 0.01 | -7 | -10 | -10 | -0.5 | -2 | -0.02 | -0.5 | -2 | 2 | -1 | 0.23 | -10 | -1 | -0.02 | 10 | -0.02 | 22 | -3 | -0.02 | -6 | 5 | -2 | -0.03 | |
| N > X+2σ | Historique | | | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | |
| N < X-2σ | Historique | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Compte | Projet | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Moyenne | Projet | | | -0.2 | 0.03 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | 0 | 23 | 4 | 0.32 | -10 | -1 | 0.00 | 10 | 0.00 | 28 | 2 | 0.00 | 8 | 10 | -2 | 0.03 | |
| Écart-type | Projet | | | 0.0 | 0.01 | 0 | 0 | 0 | 0.0 | 0 | 0.00 | 0.0 | 1 | 4 | 3 | 0.11 | 0 | 0 | 0.01 | 0 | 0.01 | 8 | 1 | 0.01 | 10 | 0 | 0 | 0.01 | |
| Maximum | Projet | | | -0.2 | 0.03 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | -1 | 25 | 6 | 0.40 | -10 | -1 | 0.01 | 10 | 0.01 | 34 | 3 | 0.01 | 15 | 10 | -2 | 0.04 | |
| Minimum | Projet | | | -0.2 | 0.02 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | -1 | 20 | 2 | 0.24 | -10 | -1 | -0.01 | 10 | -0.01 | 22 | 1 | -0.01 | 1 | 10 | -2 | 0.02 | |
| X+2σ | Projet | | | -0.2 | 0.04 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | 3 | 30 | 10 | 0.55 | -10 | -1 | 0.03 | 10 | 0.03 | 45 | 5 | 0.03 | 28 | 10 | -2 | 0.06 | |
| X-2σ | Projet | | | -0.2 | 0.01 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | -3 | 15 | -2 | 0.09 | -10 | -1 | -0.03 | 10 | -0.03 | 11 | -1 | -0.03 | -12 | 10 | -2 | 0.00 | |
| 1418 | 141890000 | VO21153815 | 2021-07-27 | -0.2 | 0.03 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | -1 | 20 | 2 | 0.24 | -10 | -1 | 0.01 | 10 | 0.01 | 22 | 1 | -0.01 | 1 | 10 | -2 | 0.02 | |
| 1418 | 141890026.1 | VO21153815 | 2021-07-27 | -0.2 | 0.02 | -2 | -10 | -10 | -0.5 | -2 | 0.01 | -0.5 | 1 | 25 | 6 | 0.40 | -10 | -1 | -0.01 | 10 | -0.01 | 34 | 3 | 0.01 | 15 | 10 | -2 | 0.04 | |

| PROJECT NUMBER | SAMPLE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | ME-XRF26 | | | | | | | | | | | PGM-23 | | | | | | |
|----------------|-------------|--|-----|-----|-------|-------|-----|-----|-----|-----|-----|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| | | Sb | Sc | Sr | Th | Ti | Tl | U | V | W | Zn | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total | LOI | Au | Pt | Pd |
| | | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | ppm | ppm |
| Nb Analyses: | 2 | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 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 | 0.01 | 0.01 | 0.01 | 0.001 | 0.005 | 0.001 |
| Compte | Historique | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| N > LD | Historique | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| Moyenne | Historique | -2 | -1 | 1 | -20 | -0.01 | -10 | -10 | 1 | -10 | -2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| Ecart-type (σ) | Historique | 0 | 0 | 1 | 0 | 0.01 | 0 | 0 | 1 | 0 | 1 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | 0.000 | 0.000 | 0.000 | |
| Maximum | Historique | -2 | -1 | 2 | -20 | 0.01 | -10 | -10 | 2 | -10 | 2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| Minimum | Historique | -2 | -1 | -1 | -20 | -0.01 | -10 | -10 | -1 | -10 | -2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| X+2σ | Historique | -2 | -1 | 3 | -20 | 0.00 | -10 | -10 | 2 | -10 | 0 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | -0.001 | -0.005 | -0.001 |
| X'-2σ | Historique | -2 | -1 | -2 | -20 | -0.02 | -10 | -10 | 0 | -10 | -4 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | -0.001 | -0.005 | -0.001 |
| N > X+2σ | Historique | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N < X-2σ | Historique | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compte | Projet | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | |
| Moyenne | Projet | -2 | -1 | 2 | -20 | -0.01 | -10 | -10 | 1 | -10 | 0 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| Ecart-type | Projet | 0 | 0 | 1 | 0 | 0.00 | 0 | 0 | 0 | 0 | 3 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | 0.000 | 0.000 | 0.000 | |
| Maximum | Projet | -2 | -1 | 2 | -20 | -0.01 | -10 | -10 | 1 | -10 | 2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| Minimum | Projet | -2 | -1 | 1 | -20 | -0.01 | -10 | -10 | 1 | -10 | -2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| X+2σ | Projet | -2 | -1 | 3 | -20 | -0.01 | -10 | -10 | 1 | -10 | 6 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | -0.001 | -0.005 | -0.001 |
| X-2σ | Projet | -2 | -1 | 0 | -20 | -0.01 | -10 | -10 | 1 | -10 | -6 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | -0.001 | -0.005 | -0.001 |
| 1418 | 141890000 | -2 | -1 | 1 | -20.0 | -0.01 | -10 | -10 | 1 | -10 | -2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |
| 1418 | 141890026.1 | -2 | -1 | 2 | -20.0 | -0.01 | -10 | -10 | 1 | -10 | 2 | 0.23 | -0.01 | -0.01 | 0.01 | 0.32 | 0.03 | -0.01 | -0.01 | -0.01 | 0.01 | 0.02 | 98.55 | -0.01 | 0.03 | 99.28 | 0.08 | -0.001 | -0.005 | -0.001 |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------------|------------------------|------------|--|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|-------|--------|--------|-------|--------|-------|--------|--------|-------|--------|-------|--------|
| | | | | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm |
| | D.L. | | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 932 | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 932 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 932 | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS 932 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS 932 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-134b | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-134b | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-134b | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS-134b | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS-134b | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 220 | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 220 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 220 | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS 220 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| . | Moyenne | Historique | | 67.5 | 1.56 | 584 | -6 | 39 | -0.5 | 7 | 0.97 | 19.7 | 750 | 46 | 8444 | 4.67 | -6 | 0 | 1 | 20 | 0.79 | 637 | 1059 | 0.17 | 7715 | 759 | 7243 |
| . | Ecart-type | Historique | | 1.9 | 0.06 | 15 | 8 | 9 | 0.0 | 2 | 0.03 | 0.5 | 20 | 1 | 162 | 0.12 | 8 | 1 | 0 | 0 | 0.03 | 22 | 33 | 0.01 | 209 | 24 | 156 |
| . | Maximum | Historique | | 70.5 | 1.67 | 618 | 10 | 50 | -0.5 | 10 | 1.02 | 20.7 | 798 | 49 | 8650 | 4.83 | 10 | 1 | 1 | 20 | 0.82 | 670 | 1135 | 0.18 | 8080 | 800 | 7610 |
| . | Minimum | Historique | | 64.2 | 1.48 | 567 | -10 | 30 | -0.5 | 2 | 0.92 | 19 | 733 | 44 | 8010 | 4.36 | -10 | -1 | 1 | 20 | 0.75 | 606 | 1020 | 0.15 | 7350 | 730 | 7050 |
| . | Compte | Projet | | -1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| . | Moyenne | Projet | | 70.3 | 1.62 | 585 | -10 | 50 | -0.5 | 2 | 1.01 | 19.7 | 779 | 47 | 8440 | 4.74 | 10 | 1 | 0.69 | 20 | 0.81 | 664 | 1090 | 0.17 | 7960 | 760 | 7330 |
| . | Ecart-type | Projet | | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |
| . | Maximum | Projet | | 70.3 | 1.62 | 585 | -10 | 50 | -0.5 | 2 | 1.01 | 19.7 | 779 | 47 | 8440 | 4.74 | 10 | 1 | 0.69 | 20 | 0.81 | 664 | 1090 | 0.17 | 7960 | 760 | 7330 |
| . | Minimum | Projet | | 0.2 | 0.07 | 5 | -10 | 5 | -0.5 | -2 | 0.01 | -0.5 | 1 | 5 | 4 | 0.05 | -10 | -1 | 0.00 | -10 | 0.02 | 5 | -1 | 0.00 | 5 | 4 | 2 |
| . | EMOG-17 | Limite inférieure -2xσ | | 59.3 | 1.45 | 503 | -10 | 30 | -0.5 | -2 | 0.87 | 17.9 | 679 | 42 | 7780 | 4.18 | -10 | -1 | 0.60 | -10 | 0.73 | 598 | 1015 | 0.15 | 6930 | 680 | 6500 |
| . | EMOG-17 | Valeur certifiée | | 66.1 | 1.62 | 561 | 5 | 55 | 0.5 | 4 | 0.98 | 20.4 | 756 | 48 | 8370 | 4.66 | 10 | 1 | 0.68 | 15 | 0.82 | 670 | 1130 | 0.18 | 7700 | 765 | 7225 |
| . | EMOG-17 | Limite supérieure+2xσ | | 72.9 | 1.79 | 619 | 20 | 80 | 1.5 | 10 | 1.09 | 22.9 | 833 | 54 | 8960 | 5.14 | 30 | 3 | 0.76 | 40 | 0.91 | 742 | 1245 | 0.20 | 8470 | 850 | 7950 |
| 1418 | EMOG-17 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | EMOG-17 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | EMOG-17 | VO21153815 | 2021-07-27 | 70.3 | 1.62 | 585 | -10 | 50 | -0.5 | 2 | 1.01 | 19.7 | 779 | 47 | 8440 | 4.74 | 10 | 1 | 0.69 | 20 | 0.81 | 664 | 1090 | 0.17 | 7960 | 760 | 7330 |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | PMP-18 | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | PMP-18 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | PMP-18 | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | PMP-18 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | PMP-18 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | Xy-OG46 | | | | PGM-ICP23 | | | | ME-XRF26 | | | | | | | | | | S-IR08 | | | | | | | | | |
|------------|---|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|---------|---------|-------|-------|-------|-----------|-------|------|------|----------|-------|------|-------|------|------|-------|------|------|------|--------|------|-------|----------|------|--|--|--|--|--|
| | S | Sb | Sc | Sr | Th | Ti | Ti | U | V | W | Zn | Ag | Cu | Ni | Au | Pt | Pd | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | | TiO2 | Total | LOI 1000 | S | | | | | |
| D.L. | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | | | | | |
| Compte | 0.01 | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 | 0.001 | 0.001 | 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 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | |
| Moyenne | | | | | | | | | | | | 21 | 6,120 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0.014 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 21 | 6,130 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 21 | 6,110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | 21 | 6,120 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0.014 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 21 | 6,130 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 21 | 6,110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | 5,900 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | 6,320 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | 6,110 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | 21 | 6,130 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | #DIV/0! | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | 196 | 0,131 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | 212 | 0,142 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | 205 | 0,134 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 0,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 0,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 0,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | #DIV/0! | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,43 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,32 | 0,03 | 1,29 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,57 | 0,02 | 9,65 | 0,04 | 11,38 | 0,46 | 7,21 | 0,17 | 2,75 | 0,18 | 0,36 | 50,31 | 0,03 | 1,28 | 97,63 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,57 | 0,02 | 9,65 | 0,04 | 11,38 | 0,46 | 7,21 | 0,17 | 2,75 | 0,18 | 0,36 | 50,31 | 0,03 | 1,28 | 97,63 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | 0,17 | 2,77 | 0,18 | 0,37 | 50,31 | 0,03 | 1,28 | 97,66 | 0 | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | 13,59 | 0,02 | 9,69 | 0,04 | 11,38 | 0,46 | 7,23 | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------------|-------------------------------|------------|--|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|-----|------|-----|-----|-----|
| | | | | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P | Pb |
| | | | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| | D.L. | | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45e | Limite inférieure -2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45e | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45e | Limite supérieure+2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS-45e | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMIS0547 | Limite inférieure -2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMIS0547 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMIS0547 | Limite supérieure+2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | AMIS0547 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GPP-14 | Limite inférieure -2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GPP-14 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GPP-14 | Limite supérieure+2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | GPP-14 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | GPP-14 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | KIP-19 | Limite inférieure -2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | KIP-19 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | KIP-19 | Limite supérieure+2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | KIP-19 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 684 | Limite inférieure -2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 684 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 684 | Limite supérieure+2 σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS 684 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------------|------------------------|------------|--|------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|--------|------|--------|-------|--------|
| | | | | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm |
| | D.L. | | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45h | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45h | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-45h | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS-45h | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GBM303-4 | Limite inférieure -2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GBM303-4 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | GBM303-4 | Limite supérieure+2xσ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | GBM303-4 | VO21153815 | 2021-07-27 | 22.1 | 1.45 | 280 | -10 | 80 | -0.5 | -2 | 0.40 | 0.6 | 60 | 691 | 213 | 3.50 | -10 | 1 | 0.19 | 10 | 1.52 | 603 | 1 | 0.17 | 442 | 130 | 77 |

| SAMPLE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | Xy-OG46 | | | PGM-ICP23 | | | ME-XRF26 | | | | | | | | | | | | | | | | S-IR08 | |
|------------|---|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|---------|---------|---------|---------|-----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|
| | S | Sb | Sc | Sr | Th | Ti | Ti | U | V | W | Zn | Ag | Cu | Ni | Au | Pt | Pd | Al2O3 | BaO | CaO | Cr2O3 | Fe2O3 | K2O | MgO | MnO | Na2O | P2O5 | SO3 | SiO2 | SrO | TiO2 | Total | LOI 1000 | S | | |
| D.L. | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | % | % | % | ppm | ppm | ppm | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | % | |
| Compte | 0.01 | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 | 0.001 | 0.001 | 0.001 | 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 | 0.01 | 0.01 | 0.01 | 0.01 | | |
| Moyenne | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| Maximum | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| Minimum | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| Compte | | | | | | | | | | | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Moyenne | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |
| Maximum | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Minimum | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | |
| OREAS-45h | | | | | | | | | | | | 0.038 | 0.076 | 0.119 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-45h | | | | | | | | | | | | 0.044 | 0.098 | 0.137 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-45h | | | | | | | | | | | | 0.042 | 0.090 | 0.131 | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-45h | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | #DIV/0! | 0.000 | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0.000 | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | | | | | | | | | | | | #DIV/0! | 0.000 | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | 93 | 0.030 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | 101 | 0.034 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | 100 | 0.033 | | | | | | | | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | 0.033 | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | 0.17 | 3 | 13 | 25 | -20 | 0.04 | -10 | -10 | 66 | -10 | 194 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | 0.01 | 3 | 1 | 1 | 0 | 0.00 | 0 | 0 | 2 | 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | 0.18 | 5 | 14 | 26 | -20 | 0.04 | -10 | -10 | 69 | -10 | 201 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | 0.16 | -2 | 13 | 24 | -20 | 0.04 | -10 | -10 | 64 | -10 | 187 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moyenne | 0.17 | 3 | 13 | 26 | -20 | 0.04 | -10 | -10 | 68 | -10 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ecart-type | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | 0.17 | 3 | 13 | 26 | -20 | 0.04 | -10 | -10 | 68 | -10 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | 0.17 | 3 | 13 | 26 | -20 | 0.04 | -10 | -10 | 68 | -10 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBM303-4 | 0.14 | -2 | 11 | 21 | -20 | 0.02 | -10 | -10 | 61 | -10 | 176 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBM303-4 | 0.17 | 3 | 14 | 25 | 20 | 0.04 | 5 | 10 | 69 | 5 | 198 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBM303-4 | 0.20 | 7 | 17 | 28 | 60 | 0.06 | 20 | 30 | 77 | 20 | 220 | | | | | | | | | | | | | | | | | | | | | | | | | |
| GBM303-4 | 0.17 | 3 | 13 | 26 | -20 | 0.04 | -10 | -10 | 68 | -10 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|------------|-----------------------|------------|--|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|-----|------|-----|-----|-----|
| | | | | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P | Pb |
| | | | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | ppm | ppm |
| | D.L. | | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | G919-10 | Limite inférieure -2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | G919-10 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | G919-10 | Limite supérieure+2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | G919-10 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | G919-10 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO281 | Limite inférieure -2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO281 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO281 | Limite supérieure+2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | AMISO281 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | AMISO281 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO571 | Limite inférieure -2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO571 | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | AMISO571 | Limite supérieure+2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | AMISO571 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 252b | Limite inférieure -2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 252b | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS 252b | Limite supérieure+2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS 252b | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Historique | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Compte | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Moyenne | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Ecart-type | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Maximum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | Minimum | Projet | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-76a | Limite inférieure -2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-76a | Valeur certifiée | | | | | | | | | | | | | | | | | | | | | | | | | |
| . | OREAS-76a | Limite supérieure+2σ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1418 | OREAS-76a | VO21205018 | 2021-08-26 | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NUMBER | SAMPLE | CERTIFICATE | DATE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------|-------------|------------|---|------|-----|-----|-----|------|-----|------|------|-----|------|------|-------|----|-----|------|----|------|-----|-----|-----|
| | | | | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | K | La | Mg | Mn | Mo | |
| | | | | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | % | ppm | ppm |
| Nb Analyses: | 6 | D.L. | | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | |
| 1418 | 141890003 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | |
| 1418 | 141890003 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | |
| 1418 | 141890014 | VO21153815 | 2021-07-27 | 0.3 | 1.30 | 2 | -10 | 50 | -0.5 | 3 | 0.02 | -0.5 | 362 | 2040 | 5650 | 27.30 | 10 | -1 | 0.81 | 20 | 0.64 | 179 | 4 | |
| 1418 | 141890014 | VO21153815 | 2021-07-27 | 0.3 | 1.32 | 3 | -10 | 50 | -0.5 | 3 | 0.02 | -0.5 | 363 | 2050 | 5730 | 28.00 | 10 | -1 | 0.82 | 20 | 0.63 | 179 | 5 | |
| 1418 | 141890026 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | |
| 1418 | 141890026 | VO21153815 | 2021-07-27 | | | | | | | | | | | | | | | | | | | | | |

| PROJECT NUMBER | SAMPLE | ICP-AES AQUA REGIA ANALYSIS (ME-ICP41) | | | | | | | | | | | | | | PGM-23 | | | |
|----------------|-----------|--|-----------|----------|-----------|--------|-----------|-----------|-----------|-----------|---------|-----------|----------|----------|----------|-----------|-----------|-----------|-----------|
| | | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm | Sc ppm | Sr ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Au ppm | Pt ppm | Pd ppm |
| Nb Analyses: | 6 | 0.01 | 1 | 10 | 2 | 0.01 | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 0.001 | 0.005 | 0.001 |
| 1418 | 141890003 | | | | | | | | | | | | | | | | -0.001 | -0.005 | 0.003 |
| 1418 | 141890003 | | | | | | | | | | | | | | | | -0.001 | -0.005 | 0.003 |
| 1418 | 141890014 | 0.01 | 1960 | 290 | -2 | 5.00 | -2 | 3 | 3 | -20 | 0.25 | -10 | -10 | 80 | -10 | 90 | | | |
| 1418 | 141890014 | 0.01 | 1990 | 290 | -2 | 5.08 | -2 | 3 | 4 | -20 | 0.25 | -10 | -10 | 81 | -10 | 87 | | | |
| 1418 | 141890026 | | | | | | | | | | | | | | | | 0.030 | 0.061 | 0.057 |
| 1418 | 141890026 | | | | | | | | | | | | | | | | 0.032 | 0.065 | 0.055 |

APPENDIX 5

CERTIFICATE OF ANALYSIS

Table 1: Certificate of analysis for rock samples (ALS Minerals)



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À: IOS SERVICES GEOSCIENTIFIQUES INC.
1319 BOUL ST-PAUL
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Page: 1
Nombre total de pages: 3 (A - D)
plus les pages d'annexe
Finalisée date: 27-JUIL-2021
Compte: NMQ

CERTIFICAT VO21153815

Projet: 2020-1418
Bon de commande #: 18726
Ce rapport s'applique à 43 échantillons de Roche soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIN-2021.
Les résultats sont transmis à:
KAREN GAGNE | RÉJEAN GIRARD

PRÉPARATION ÉCHANTILLONS

| CODE ALS | DESCRIPTION |
|-----------|--|
| WEI-21 | Poids échantillon reçu |
| LOG-21 | Entrée échantillon - Code barre client |
| LOG-23 | Entrée pulpe - Reçu avec code barre |
| CRU-31 | Granulation - 70 % <2 mm |
| CRU-QC | Test concassage QC |
| PUL-QC | Test concassage QC |
| OA-HSUL10 | Manipulation des échantillons de sulfure |
| SPL-21 | Échant. fractionné - div. riffles |
| PUL-31 | Pulvérisé à 85 % <75 um |

PROCÉDURES ANALYTIQUES

| CODE ALS | DESCRIPTION | INSTRUMENT |
|-----------|---|------------|
| ME-XRF26 | Whole Rock By Fusion/XRF | XRF |
| OA-GRA05x | LOI at 1000C for XRF | WST-SEQ |
| ME-ICP41 | Aqua regia ICP-AES 35 éléments | ICP-AES |
| Ag-OG46 | Teneur marchande Ag - Aqua regia | |
| ME-OG46 | Teneur marchandes éléments - Aqua regia | ICP-AES |
| Cu-OG46 | Teneur marchande Cu - Aqua regia | |
| PGM-ICP23 | Pt, Pd et Au 30 g FA ICP | ICP-AES |

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

**** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat ****

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO₃. SF-Total less than or equal to 100%.

Signature:

Saa Traxler, General Manager, North Vancouver



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 plus les pages d'annexe
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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | WEI-21 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|-------------------------|----------------------------|---------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Poids reçu kg | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % |
| 141890000 | | 0.51 | <0.001 | <0.005 | <0.001 | 0.23 | <0.01 | <0.01 | 0.01 | 0.32 | 0.03 | <0.01 | <0.01 | <0.01 | 0.01 | 0.02 |
| 141890001 | | 1.35 | <0.001 | <0.005 | 0.003 | | | | | | | | | | | |
| 141890002 | | 1.57 | 0.084 | 0.016 | 0.010 | | | | | | | | | | | |
| 141890003 | | 1.75 | <0.001 | <0.005 | 0.003 | | | | | | | | | | | |
| 141890004 | | 1.65 | 0.001 | <0.005 | 0.002 | | | | | | | | | | | |
| 141890005 | | 1.03 | 0.020 | <0.005 | 0.003 | | | | | | | | | | | |
| 141890006 | | 0.42 | 0.040 | 0.057 | 0.133 | | | | | | | | | | | |
| 141890007 | | 1.40 | 0.021 | 0.178 | 0.082 | | | | | | | | | | | |
| 141890008 | | 0.67 | | | | 18.64 | 0.06 | 5.34 | 0.01 | 6.54 | 1.76 | 4.79 | 0.08 | 3.55 | 0.06 | 0.42 |
| 141890009 | | 1.24 | | | | 19.48 | 0.06 | 5.02 | 0.02 | 8.01 | 1.46 | 1.75 | 0.03 | 4.43 | 0.08 | 1.49 |
| 141890010 | | 1.12 | <0.001 | 0.005 | 0.008 | | | | | | | | | | | |
| 141890011 | | 0.55 | 0.032 | 0.025 | 0.060 | | | | | | | | | | | |
| 141890012 | | 0.91 | <0.001 | 0.017 | 0.016 | | | | | | | | | | | |
| 141890013 | | 1.44 | 0.002 | <0.005 | 0.019 | | | | | | | | | | | |
| 141890014 | | 1.84 | 0.055 | 0.092 | 0.070 | | | | | | | | | | | |
| 141890015 | | 1.64 | 0.027 | 0.024 | 0.180 | | | | | | | | | | | |
| 141890016 | | 0.37 | 0.333 | 0.006 | 0.162 | | | | | | | | | | | |
| 141890017 | | 0.07 | NSS | NSS | NSS | | | | | | | | | | | |
| 141890018 | | 0.86 | | | | 2.01 | <0.01 | 1.35 | 0.16 | 21.99 | 0.01 | 22.8 | 0.60 | 0.10 | 0.04 | 0.64 |
| 141890019 | | 1.03 | | | | 13.90 | 0.13 | 2.52 | 0.26 | 9.82 | 2.46 | 1.47 | 0.05 | 3.28 | 0.13 | 1.33 |
| 141890020 | | 2.25 | | | | 18.14 | 0.28 | 2.90 | <0.01 | 5.01 | 5.86 | 1.05 | 0.12 | 4.65 | 0.32 | 0.13 |
| 141890021 | | 1.88 | | | | 4.27 | <0.01 | 1.51 | 0.02 | 22.69 | 0.04 | 21.3 | 0.28 | 0.22 | 0.02 | 3.03 |
| 141890022 | | 0.50 | | | | 20.97 | 0.08 | 6.85 | 0.01 | 7.24 | 0.93 | 4.78 | 0.07 | 4.26 | 0.02 | 0.17 |
| 141890023 | | 0.88 | | | | 26.33 | 0.09 | 8.79 | <0.01 | 1.11 | 1.05 | 0.32 | 0.01 | 5.56 | 0.02 | 0.13 |
| 141890024 | | 1.44 | | | | 19.75 | 0.42 | 2.81 | 0.01 | 3.55 | 5.42 | 0.96 | 0.05 | 5.15 | 0.03 | 0.17 |
| 141890025 | | 1.26 | | | | 26.06 | 0.05 | 8.67 | 0.01 | 2.03 | 0.96 | 1.13 | 0.03 | 5.17 | 0.03 | 0.20 |
| 141890026 | | 1.64 | 0.030 | 0.061 | 0.057 | | | | | | | | | | | |
| 141890026.1 | | 0.50 | <0.001 | <0.005 | <0.001 | | | | | | | | | | | |
| 141890027 | | 2.57 | 0.031 | 0.096 | 0.062 | | | | | | | | | | | |
| 141890028 | | 1.37 | 0.059 | 0.034 | 0.093 | | | | | | | | | | | |
| 141890029 | | 2.80 | | | | 6.14 | 0.03 | 3.07 | 0.44 | 21.79 | 0.22 | 18.75 | 0.35 | 0.57 | 0.16 | 0.22 |
| 141890030 | | 2.60 | 0.056 | 0.014 | 0.032 | | | | | | | | | | | |
| 141890031 | | 1.08 | | | | 3.89 | 0.01 | 1.27 | 0.04 | 25.16 | 0.05 | 19.55 | 0.38 | 0.24 | 0.02 | 4.09 |
| 141890032 | | 1.19 | 0.061 | 0.030 | 0.058 | | | | | | | | | | | |
| 141890033 | | 2.08 | 0.068 | 0.085 | 0.097 | | | | | | | | | | | |
| 141890034 | | 1.93 | | | | 10.92 | 0.02 | 4.09 | 0.02 | 17.98 | 0.28 | 13.15 | 0.26 | 1.81 | 0.03 | 2.03 |
| 141890035 | | 0.25 | 0.194 | 0.040 | 0.080 | | | | | | | | | | | |
| 141890036 | | 2.21 | <0.001 | 0.005 | 0.009 | | | | | | | | | | | |
| 141890036.1 | | 0.07 | 3.27 | 7.09 | 9.93 | | | | | | | | | | | |
| 141890037 | | 3.18 | 0.015 | 0.095 | 0.132 | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****



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Page: 2 - B
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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|-------------------------|----------------------------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | SiO2 % | SrO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm |
| 141890000 | | 98.55 | <0.01 | 0.03 | 99.28 | 0.08 | <0.2 | 0.03 | <2 | <10 | <10 | <0.5 | <2 | 0.01 | <0.5 | <1 |
| 141890001 | | | | | | | <0.2 | 1.56 | <2 | 10 | 100 | <0.5 | <2 | 1.54 | <0.5 | 6 |
| 141890002 | | | | | | | 0.5 | 0.42 | <2 | <10 | 100 | <0.5 | <2 | 0.36 | <0.5 | 167 |
| 141890003 | | | | | | | <0.2 | 0.66 | <2 | <10 | 30 | <0.5 | <2 | 0.46 | <0.5 | 17 |
| 141890004 | | | | | | | <0.2 | 0.90 | <2 | 10 | 170 | <0.5 | <2 | 1.68 | <0.5 | 28 |
| 141890005 | | | | | | | 0.2 | 0.23 | <2 | <10 | 10 | <0.5 | <2 | 0.08 | <0.5 | 60 |
| 141890006 | | | | | | | 0.6 | 0.27 | 3 | <10 | 10 | <0.5 | 4 | 0.02 | <0.5 | 76 |
| 141890007 | | | | | | | 1.2 | 0.71 | 3 | <10 | 20 | <0.5 | 5 | 0.16 | <0.5 | 1120 |
| 141890008 | | 56.80 | 0.08 | 0.55 | 99.86 | 1.04 | | | | | | | | | | |
| 141890009 | | 56.30 | 0.09 | 1.57 | 101.45 | 1.49 | | | | | | | | | | |
| 141890010 | | | | | | | <0.2 | 1.79 | <2 | <10 | 210 | <0.5 | <2 | 0.22 | <0.5 | 40 |
| 141890011 | | | | | | | 1.1 | 0.76 | <2 | <10 | 40 | <0.5 | 2 | 0.10 | <0.5 | 195 |
| 141890012 | | | | | | | <0.2 | 1.72 | <2 | <10 | 80 | <0.5 | <2 | 0.63 | <0.5 | 142 |
| 141890013 | | | | | | | 0.3 | 1.57 | 4 | 10 | 10 | <0.5 | 5 | 0.10 | <0.5 | 856 |
| 141890014 | | | | | | | 0.3 | 1.30 | 2 | <10 | 50 | <0.5 | 3 | 0.02 | <0.5 | 362 |
| 141890015 | | | | | | | 0.9 | 0.28 | 2 | <10 | 10 | <0.5 | 4 | <0.01 | <0.5 | 1420 |
| 141890016 | | | | | | | 3.0 | 0.84 | 3 | <10 | 20 | <0.5 | 2 | 0.01 | <0.5 | 691 |
| 141890017 | | | | | | | >100 | 0.04 | 2410 | <10 | <10 | <0.5 | <2 | 0.01 | 6.9 | >10000 |
| 141890018 | | 51.03 | <0.01 | 0.29 | 100.85 | -0.43 | | | | | | | | | | |
| 141890019 | | 61.68 | 0.05 | 0.97 | 101.00 | 2.53 | | | | | | | | | | |
| 141890020 | | 58.80 | 0.05 | 1.10 | 98.83 | 0.19 | | | | | | | | | | |
| 141890021 | | 47.49 | <0.01 | 0.61 | 102.75 | 0.95 | | | | | | | | | | |
| 141890022 | | 52.78 | 0.12 | 1.34 | 99.87 | 0.17 | | | | | | | | | | |
| 141890023 | | 56.22 | 0.15 | 0.11 | 100.15 | 0.26 | | | | | | | | | | |
| 141890024 | | 60.96 | 0.08 | 0.82 | 100.65 | 0.41 | | | | | | | | | | |
| 141890025 | | 54.87 | 0.13 | 0.17 | 100.30 | 0.75 | | | | | | | | | | |
| 141890026 | | | | | | | 0.8 | 1.00 | 8 | <10 | 10 | <0.5 | <2 | 0.41 | <0.5 | 313 |
| 141890026.1 | | | | | | | <0.2 | 0.02 | <2 | <10 | <10 | <0.5 | <2 | 0.01 | <0.5 | 1 |
| 141890027 | | | | | | | 0.5 | 1.02 | <2 | 10 | 10 | <0.5 | <2 | 0.40 | <0.5 | 265 |
| 141890028 | | | | | | | 0.5 | 0.29 | <2 | <10 | 10 | <0.5 | 2 | 0.15 | <0.5 | 508 |
| 141890029 | | 46.95 | 0.01 | 0.84 | 99.02 | -0.71 | | | | | | | | | | |
| 141890030 | | | | | | | 0.3 | 0.59 | <2 | <10 | 40 | <0.5 | <2 | 0.23 | <0.5 | 89 |
| 141890031 | | 47.16 | 0.01 | 0.59 | 103.15 | 0.43 | | | | | | | | | | |
| 141890032 | | | | | | | 0.3 | 0.40 | <2 | <10 | 10 | <0.5 | <2 | 0.18 | <0.5 | 243 |
| 141890033 | | | | | | | 0.6 | 0.99 | 2 | <10 | 40 | <0.5 | 2 | 0.06 | <0.5 | 596 |
| 141890034 | | 49.77 | 0.05 | 0.68 | 101.75 | 0.45 | | | | | | | | | | |
| 141890035 | | | | | | | 0.5 | 0.37 | <2 | <10 | 10 | <0.5 | <2 | 0.23 | <0.5 | 322 |
| 141890036 | | | | | | | <0.2 | 1.53 | <2 | <10 | 140 | 0.5 | <2 | 0.06 | <0.5 | 68 |
| 141890036.1 | | | | | | | >100 | 0.04 | 2220 | <10 | <10 | <0.5 | 32 | 0.01 | <0.5 | >10000 |
| 141890037 | | | | | | | 1.1 | 0.92 | 3 | <10 | 20 | <0.5 | 2 | 0.24 | <0.5 | 482 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|-------------------------|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % |
| 141890000 | | 20 | 2 | 0.24 | <10 | <1 | 0.01 | 10 | 0.01 | 22 | 1 | <0.01 | 1 | 10 | <2 | 0.02 |
| 141890001 | | 12 | 10 | 1.93 | <10 | 1 | 0.11 | <10 | 0.95 | 355 | 1 | 0.11 | 12 | 110 | <2 | 0.06 |
| 141890002 | | 94 | 1610 | 7.08 | <10 | <1 | 0.04 | 10 | 0.68 | 171 | 3 | 0.04 | 643 | 190 | 4 | 2.56 |
| 141890003 | | 75 | 39 | 1.30 | <10 | <1 | 0.07 | <10 | 0.68 | 192 | 1 | 0.05 | 97 | 40 | <2 | 0.16 |
| 141890004 | | 21 | 110 | 3.71 | <10 | 1 | 0.06 | 10 | 2.10 | 383 | 1 | 0.07 | 97 | 1260 | 5 | 0.42 |
| 141890005 | | 21 | 362 | 2.42 | <10 | <1 | 0.02 | <10 | 0.51 | 120 | 1 | <0.01 | 254 | 10 | 4 | 1.07 |
| 141890006 | | 43 | 421 | 29.8 | <10 | <1 | 0.01 | <10 | 0.19 | 110 | 10 | <0.01 | 260 | 100 | <2 | 1.13 |
| 141890007 | | 378 | 7810 | 37.8 | 10 | <1 | 0.10 | <10 | 0.23 | 93 | 2 | 0.06 | 6520 | 30 | <2 | >10.0 |
| 141890008 | | | | | | | | | | | | | | | | |
| 141890009 | | | | | | | | | | | | | | | | |
| 141890010 | | 142 | 467 | 11.10 | 10 | <1 | 1.17 | 30 | 1.00 | 97 | 3 | 0.14 | 110 | 560 | 3 | 1.12 |
| 141890011 | | 253 | 2260 | 17.30 | 10 | <1 | 1.38 | <10 | 0.41 | 69 | 12 | 0.05 | 74 | 100 | <2 | 4.95 |
| 141890012 | | 32 | 937 | 6.71 | <10 | <1 | 0.26 | <10 | 0.29 | 72 | <1 | 0.31 | 1200 | 80 | <2 | 3.51 |
| 141890013 | | 120 | 1720 | 35.1 | <10 | <1 | 0.11 | <10 | 0.79 | 32 | 16 | 0.03 | 3400 | 30 | <2 | >10.0 |
| 141890014 | | 2040 | 5650 | 27.3 | 10 | <1 | 0.81 | 20 | 0.64 | 179 | 4 | 0.01 | 1960 | 290 | <2 | 5.00 |
| 141890015 | | 639 | 5780 | 34.3 | <10 | <1 | 0.01 | <10 | 0.07 | 51 | 3 | <0.01 | >10000 | 10 | <2 | >10.0 |
| 141890016 | | 1475 | >10000 | 31.3 | 10 | <1 | 0.38 | <10 | 0.42 | 138 | 4 | 0.01 | 8770 | 20 | <2 | >10.0 |
| 141890017 | | 8 | >10000 | 1.40 | <10 | 1 | 0.01 | <10 | <0.01 | 5 | 16 | <0.01 | >10000 | <10 | 342 | 7.11 |
| 141890018 | | | | | | | | | | | | | | | | |
| 141890019 | | | | | | | | | | | | | | | | |
| 141890020 | | | | | | | | | | | | | | | | |
| 141890021 | | | | | | | | | | | | | | | | |
| 141890022 | | | | | | | | | | | | | | | | |
| 141890023 | | | | | | | | | | | | | | | | |
| 141890024 | | | | | | | | | | | | | | | | |
| 141890025 | | | | | | | | | | | | | | | | |
| 141890026 | | 33 | 1900 | 10.20 | <10 | <1 | 0.03 | <10 | 0.02 | 64 | 3 | 0.16 | 4450 | 110 | <2 | 6.23 |
| 141890026.1 | | 25 | 6 | 0.40 | <10 | <1 | <0.01 | 10 | <0.01 | 34 | 3 | 0.01 | 15 | 10 | <2 | 0.04 |
| 141890027 | | 29 | 2390 | 7.18 | <10 | <1 | 0.04 | <10 | 0.02 | 49 | 1 | 0.17 | 4000 | 70 | <2 | 6.58 |
| 141890028 | | 27 | 3700 | 15.35 | <10 | <1 | 0.01 | <10 | 0.31 | 119 | 2 | 0.03 | 2730 | 100 | <2 | 8.55 |
| 141890029 | | | | | | | | | | | | | | | | |
| 141890030 | | 69 | 1180 | 4.71 | <10 | <1 | 0.02 | <10 | 0.29 | 86 | 1 | 0.06 | 383 | 70 | <2 | 1.32 |
| 141890031 | | | | | | | | | | | | | | | | |
| 141890032 | | 70 | 1860 | 9.49 | <10 | <1 | 0.02 | <10 | 0.26 | 95 | 2 | 0.04 | 1970 | 60 | <2 | 3.72 |
| 141890033 | | 94 | 5230 | 18.75 | <10 | <1 | 0.31 | 10 | 0.78 | 85 | 2 | 0.03 | 4040 | 190 | <2 | 8.69 |
| 141890034 | | | | | | | | | | | | | | | | |
| 141890035 | | 36 | 3100 | 12.30 | <10 | <1 | 0.01 | <10 | 0.38 | 135 | 3 | 0.03 | 2410 | 20 | <2 | 6.25 |
| 141890036 | | 107 | 184 | 3.86 | 10 | <1 | 1.19 | <10 | 1.82 | 180 | 1 | 0.06 | 255 | 90 | <2 | 0.56 |
| 141890036.1 | | 7 | >10000 | 1.38 | <10 | 1 | 0.01 | <10 | <0.01 | <5 | 14 | 0.01 | >10000 | 10 | 313 | 7.16 |
| 141890037 | | 69 | 4520 | 16.00 | <10 | <1 | 0.35 | <10 | 0.62 | 76 | 2 | 0.10 | 3410 | 60 | 3 | 8.13 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****



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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|-------------------------|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| | | Sb ppm | Sc ppm | Sr ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Cu % |
| 141890000 | | <2 | <1 | 1 | <20 | <0.01 | <10 | <10 | 1 | <10 | <2 | | |
| 141890001 | | <2 | 1 | 32 | <20 | 0.05 | <10 | <10 | 19 | <10 | 16 | | |
| 141890002 | | <2 | 4 | 39 | <20 | 0.04 | <10 | <10 | 28 | <10 | 18 | | |
| 141890003 | | <2 | 2 | 12 | <20 | 0.05 | <10 | <10 | 19 | <10 | 16 | | |
| 141890004 | | <2 | 2 | 112 | <20 | 0.07 | <10 | <10 | 45 | <10 | 19 | | |
| 141890005 | | <2 | 3 | 1 | <20 | 0.02 | <10 | <10 | 23 | <10 | 11 | | |
| 141890006 | | <2 | 3 | <1 | <20 | 0.02 | <10 | <10 | 22 | <10 | 6 | | |
| 141890007 | | <2 | 1 | 24 | <20 | 0.17 | <10 | <10 | 331 | <10 | 156 | | |
| 141890008 | | | | | | | | | | | | | |
| 141890009 | | | | | | | | | | | | | |
| 141890010 | | <2 | 3 | 51 | <20 | 0.29 | <10 | <10 | 103 | <10 | 48 | | |
| 141890011 | | <2 | 2 | 15 | <20 | 0.49 | <10 | <10 | 251 | <10 | 19 | | |
| 141890012 | | <2 | 1 | 104 | <20 | 0.09 | <10 | <10 | 38 | <10 | 10 | | |
| 141890013 | | <2 | 2 | 12 | <20 | 0.02 | <10 | <10 | 156 | <10 | <2 | | |
| 141890014 | | <2 | 3 | 3 | <20 | 0.25 | <10 | <10 | 80 | <10 | 90 | | |
| 141890015 | | <2 | 1 | <1 | <20 | 0.03 | <10 | <10 | 33 | <10 | 50 | | |
| 141890016 | | <2 | 3 | <1 | <20 | 0.17 | <10 | <10 | 70 | <10 | 168 | | 3.97 |
| 141890017 | | <2 | 4 | <1 | <20 | <0.01 | 10 | <10 | 1 | <10 | 17 | NSS | NSS |
| 141890018 | | | | | | | | | | | | | |
| 141890019 | | | | | | | | | | | | | |
| 141890020 | | | | | | | | | | | | | |
| 141890021 | | | | | | | | | | | | | |
| 141890022 | | | | | | | | | | | | | |
| 141890023 | | | | | | | | | | | | | |
| 141890024 | | | | | | | | | | | | | |
| 141890025 | | | | | | | | | | | | | |
| 141890026 | | <2 | <1 | 48 | <20 | 0.01 | <10 | <10 | 6 | <10 | 3 | | |
| 141890026.1 | | <2 | <1 | 2 | <20 | <0.01 | <10 | <10 | 1 | <10 | 2 | | |
| 141890027 | | <2 | <1 | 53 | <20 | 0.01 | <10 | <10 | 3 | <10 | 5 | | |
| 141890028 | | <2 | 2 | 2 | <20 | 0.03 | <10 | <10 | 13 | <10 | 11 | | |
| 141890029 | | | | | | | | | | | | | |
| 141890030 | | <2 | 2 | 16 | <20 | 0.05 | <10 | <10 | 31 | <10 | 9 | | |
| 141890031 | | | | | | | | | | | | | |
| 141890032 | | <2 | 3 | 6 | <20 | 0.13 | <10 | <10 | 53 | <10 | 18 | | |
| 141890033 | | <2 | 4 | 4 | <20 | 0.17 | <10 | <10 | 63 | <10 | 39 | | |
| 141890034 | | | | | | | | | | | | | |
| 141890035 | | <2 | 2 | 4 | <20 | 0.06 | <10 | <10 | 24 | <10 | 28 | | |
| 141890036 | | <2 | 5 | 3 | <20 | 0.24 | <10 | <10 | 79 | <10 | 39 | | |
| 141890036.1 | | 6 | <1 | 34 | <20 | <0.01 | <10 | 10 | 1 | 20 | 16 | 130 | 24.8 |
| 141890037 | | <2 | 3 | 28 | <20 | 0.13 | <10 | <10 | 68 | <10 | 23 | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | WEI-21 | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | |
|-------------------------|-------------------------------------|------------------|-----------|-----------|-----------|------------|----------|----------|------------|------------|----------|----------|----------|-----------|-----------|----------|
| | | Poids reçu kg | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % |
| 141890038 | | 1.09 | 0.022 | 0.084 | 0.138 | | | | | | | | | | | |
| 141890039 | | 1.71 | 0.054 | 0.080 | 0.252 | | | | | | | | | | | |
| 141890151 | | 2.05 | | | | 20.14 | 0.50 | 3.98 | <0.01 | 2.94 | 4.54 | 0.98 | 0.04 | 5.15 | 0.04 | 0.21 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|-------------------------|-------------------------------------|-----------|----------|-----------|------------|---------------|-----------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|
| | | SiO2 % | SrO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm |
| 141890038 | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 |
| 141890039 | | | | | | | 0.5 | 0.34 | <2 | <10 | 20 | <0.5 | <2 | 0.17 | <0.5 | 457 |
| 141890151 | | 58.94 | 0.10 | 0.77 | 98.81 | 0.45 | 0.9 | 0.24 | <2 | <10 | 10 | <0.5 | <2 | 0.09 | <0.5 | 449 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|-------------------------|-------------------------------------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|
| | | Cr ppm 1 | Cu ppm 1 | Fe % 0.01 | Ga ppm 10 | Hg ppm 1 | K % 0.01 | La ppm 10 | Mg % 0.01 | Mn ppm 5 | Mo ppm 1 | Na % 0.01 | Ni ppm 1 | P ppm 10 | Pb ppm 2 | S % 0.01 |
| 141890038 | | 91 | 4260 | 11.85 | <10 | <1 | 0.02 | <10 | 0.23 | 72 | 2 | 0.05 | 1780 | 30 | <2 | 7.19 |
| 141890039 | | 108 | 7170 | 13.50 | <10 | <1 | 0.01 | <10 | 0.25 | 74 | 3 | 0.02 | 3830 | 20 | 2 | 8.75 |
| 141890151 | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|-------------------------|-------------------------------------|-----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|---------|
| | | Sb ppm | Sc ppm | Sr ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Cu % |
| | | 2 | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 |
| 141890038 | | <2 | 2 | 12 | <20 | 0.05 | <10 | <10 | 28 | <10 | 18 | | |
| 141890039 | | <2 | 2 | 3 | <20 | 0.02 | <10 | <10 | 17 | <10 | 19 | | |
| 141890151 | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE VO21153815

| COMMENTAIRE DE CERTIFICAT | | | | | | | | | | | | | |
|---------------------------|---|-----------|---------|----------|---------|-----------|-----------|-----------|--------|--------|--|--|--|
| | COMMENTAIRES ANALYTIQUES | | | | | | | | | | | | |
| Applique à la Méthode: | NSS est échantillon insuffisant. TOUTES MÉTHODES | | | | | | | | | | | | |
| | ADRESSE DE LABORATOIRE | | | | | | | | | | | | |
| Applique à la Méthode: | Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada | | | | | | | | | | | | |
| | <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>OA-HSUL10</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table> | CRU-31 | CRU-QC | LOG-21 | LOG-23 | OA-HSUL10 | PUL-31 | PUL-QC | SPL-21 | WEI-21 | | | |
| CRU-31 | CRU-QC | LOG-21 | LOG-23 | | | | | | | | | | |
| OA-HSUL10 | PUL-31 | PUL-QC | SPL-21 | | | | | | | | | | |
| WEI-21 | | | | | | | | | | | | | |
| Applique à la Méthode: | Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | | | | | | | | | | | |
| | <table border="0"> <tr> <td>Ag-OG46</td> <td>Cu-OG46</td> <td>ME-ICP41</td> <td>ME-OG46</td> </tr> <tr> <td>ME-XRF26</td> <td>OA-GRA05x</td> <td>PGM-ICP23</td> <td></td> </tr> </table> | Ag-OG46 | Cu-OG46 | ME-ICP41 | ME-OG46 | ME-XRF26 | OA-GRA05x | PGM-ICP23 | | | | | |
| Ag-OG46 | Cu-OG46 | ME-ICP41 | ME-OG46 | | | | | | | | | | |
| ME-XRF26 | OA-GRA05x | PGM-ICP23 | | | | | | | | | | | |



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CERTIFICAT CQ VO21153815

Projet: 2020-1418
 Bon de commande #: 18726
 Ce rapport s'applique à 43 échantillons de Roche soumis à notre laboratoire de Val d'Or, QC, Canada le 16-JUIN-2021.
 Les résultats sont transmis à:
 KAREN GAGNE | RÉJEAN GIRARD

PRÉPARATION ÉCHANTILLONS

| CODE ALS | DESCRIPTION |
|-----------|--|
| WEI-21 | Poids échantillon reçu |
| LOG-21 | Entrée échantillon - Code barre client |
| LOG-23 | Entrée pulpe - Reçu avec code barre |
| CRU-31 | Granulation - 70 % <2 mm |
| CRU-QC | Test concassage QC |
| PUL-QC | Test concassage QC |
| OA-HSUL10 | Manipulation des échantillons de sulfure |
| SPL-21 | Échant. fractionné - div. riffles |
| PUL-31 | Pulvérisé à 85 % <75 um |

PROCÉDURES ANALYTIQUES

| CODE ALS | DESCRIPTION | INSTRUMENT |
|-----------|---|------------|
| ME-XRF26 | Whole Rock By Fusion/XRF | XRF |
| OA-GRA05x | LOI at 1000C for XRF | WST-SEQ |
| ME-ICP41 | Aqua regia ICP-AES 35 éléments | ICP-AES |
| Aq-OG46 | Teneur marchande Ag - Aqua regia | |
| ME-OG46 | Teneur marchandes éléments - Aqua regia | ICP-AES |
| Cu-OG46 | Teneur marchande Cu - Aqua regia | |
| PGM-ICP23 | Pt, Pd et Au 30 g FA ICP | ICP-AES |

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

Signature: 
 Saa Traxler, General Manager, North Vancouver



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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LD | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | |
|--|---------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % | SiO2 % |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| AMIS0281 | | 0.226 | 0.546 | 1.490 | | | | | | | | | | | | |
| AMIS0281 | | 0.228 | 0.540 | 1.485 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.206 | 0.503 | 1.410 | | | | | | | | | | | | |
| limite supérieure | | 0.234 | 0.577 | 1.590 | | | | | | | | | | | | |
| AMIS0547 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| AMIS0571 | | | | | 10.34 | 0.02 | 6.91 | 0.15 | 9.51 | 1.34 | 8.87 | 0.19 | 2.17 | 0.11 | 0.95 | 56.02 |
| Plage d'acceptance - limite inférieure | | | | | 9.95 | <0.01 | 6.62 | 0.12 | 9.14 | 1.24 | 8.53 | 0.16 | 2.05 | 0.07 | 0.84 | 54.70 |
| limite supérieure | | | | | 10.69 | 0.03 | 7.18 | 0.18 | 9.84 | 1.42 | 9.21 | 0.22 | 2.29 | 0.13 | 1.05 | 57.30 |
| EMOG-17 | | | | | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| G919-10 | | 7.62 | <0.005 | 0.002 | | | | | | | | | | | | |
| G919-10 | | 7.72 | <0.005 | <0.001 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 7.12 | | | | | | | | | | | | | | |
| limite supérieure | | 8.04 | | | | | | | | | | | | | | |
| GBM303-4 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| GPP-14 | | 0.914 | 0.499 | 0.480 | | | | | | | | | | | | |
| GPP-14 | | 0.916 | 0.507 | 0.486 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.853 | 0.468 | 0.451 | | | | | | | | | | | | |
| limite supérieure | | 0.965 | 0.538 | 0.511 | | | | | | | | | | | | |
| KIP-19 | | 2.44 | <0.005 | 0.001 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 2.28 | <0.005 | <0.001 | | | | | | | | | | | | |
| limite supérieure | | 2.58 | 0.010 | 0.002 | | | | | | | | | | | | |
| MRGeo08 | | | | | | | | | | | | | | | | |
| MRGeo08 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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À: IOS SERVICES GEOSCIENTIFIQUES INC.
 1319 BOUL ST-PAUL
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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDf | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|--|----------------------------|----------|-----------|------------|---------------|-----------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| | | SiO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| AMIS0547 | | | | | 38.02 | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | 36.19 | | | | | | | | | | | |
| limite supérieure | | | | | 40.02 | | | | | | | | | | | |
| AMIS0571 | | 0.01 | 0.77 | 97.61 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | <0.01 | 0.71 | 97.99 | | | | | | | | | | | | |
| limite supérieure | | 0.03 | 0.83 | 102.00 | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | | | | | |
| EMOG-17 | | | | | | 70.3 | 1.62 | 585 | <10 | 50 | <0.5 | 2 | 1.01 | 19.7 | 779 | 47 |
| Plage d'acceptance - limite inférieure | | | | | | 60.1 | 1.45 | 520 | <10 | 30 | <0.5 | <2 | 0.87 | 17.9 | 679 | 42 |
| limite supérieure | | | | | | 73.9 | 1.79 | 640 | 20 | 80 | 1.5 | 10 | 1.09 | 22.9 | 833 | 54 |
| G919-10 | | | | | | | | | | | | | | | | |
| G919-10 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| GBM303-4 | | | | | | 22.1 | 1.45 | 280 | <10 | 80 | <0.5 | <2 | 0.40 | 0.6 | 60 | 691 |
| Plage d'acceptance - limite inférieure | | | | | | 19.0 | 1.28 | 246 | <10 | 50 | <0.5 | <2 | 0.34 | <0.5 | 53 | 621 |
| limite supérieure | | | | | | 23.6 | 1.58 | 306 | 30 | 100 | 1.5 | 6 | 0.44 | 1.8 | 68 | 761 |
| GPP-14 | | | | | | | | | | | | | | | | |
| GPP-14 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| MRGeo08 | | | | | | 4.8 | 2.68 | 33 | <10 | 440 | 0.8 | <2 | 1.11 | 2.1 | 19 | 92 |
| MRGeo08 | | | | | | 4.5 | 2.54 | 33 | <10 | 430 | 0.7 | <2 | 1.07 | 1.9 | 18 | 88 |
| Plage d'acceptance - limite inférieure | | | | | | 3.8 | 2.44 | 27 | <10 | 370 | <0.5 | <2 | 1.00 | 1.1 | 16 | 81 |
| limite supérieure | | | | | | 5.1 | 3.00 | 39 | 20 | 530 | 1.9 | 5 | 1.24 | 3.4 | 22 | 102 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|-------------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm |
| | | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| AMIS0547 | | | | | | | | | | | | | | | | |
| AMIS0547 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| AMIS0571 | | | | | | | | | | | | | | | | |
| AMIS0571 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| EMOG-17 | | 8440 | 4.74 | 10 | 1 | 0.69 | 20 | 0.81 | 664 | 1090 | 0.17 | 7960 | 760 | 7330 | 3.19 | 704 |
| | Plage d'acceptance - limite inférieure | 7780 | 4.18 | <10 | <1 | 0.60 | <10 | 0.69 | 598 | 970 | 0.15 | 6930 | 680 | 6500 | 2.90 | 572 |
| | limite supérieure | 8960 | 5.14 | 30 | 3 | 0.76 | 40 | 0.87 | 742 | 1190 | 0.20 | 8470 | 850 | 7950 | 3.56 | 778 |
| G919-10 | | | | | | | | | | | | | | | | |
| G919-10 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| GBM303-4 | | 213 | 3.50 | <10 | 1 | 0.19 | 10 | 1.52 | 603 | 1 | 0.17 | 442 | 130 | 77 | 0.17 | 3 |
| | Plage d'acceptance - limite inférieure | 198 | 3.08 | <10 | <1 | 0.16 | <10 | 1.33 | 542 | <1 | 0.13 | 382 | 100 | 74 | 0.14 | <2 |
| | limite supérieure | 230 | 3.78 | 30 | 3 | 0.22 | 30 | 1.65 | 674 | 3 | 0.19 | 469 | 160 | 94 | 0.20 | 7 |
| GPP-14 | | | | | | | | | | | | | | | | |
| GPP-14 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| MRGeo08 | | 620 | 3.60 | 10 | <1 | 1.28 | 30 | 1.13 | 416 | 13 | 0.34 | 718 | 1010 | 1080 | 0.34 | 2 |
| MRGeo08 | | 619 | 3.48 | 10 | 1 | 1.24 | 30 | 1.12 | 411 | 13 | 0.35 | 683 | 940 | 1080 | 0.29 | 2 |
| | Plage d'acceptance - limite inférieure | 586 | 3.22 | <10 | <1 | 1.12 | 20 | 1.03 | 378 | 12 | 0.30 | 621 | 900 | 957 | 0.27 | <2 |
| | limite supérieure | 676 | 3.96 | 30 | 2 | 1.40 | 60 | 1.29 | 473 | 17 | 0.39 | 761 | 1130 | 1175 | 0.35 | 8 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|--|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| | | Sc ppm | Sr ppm | Th ppm | Ti % | Ti ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Cu % |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | |
| AMIS0281 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| AMIS0547 | | | | | | | | | | | | |
| AMIS0571 | | | | | | | | | | | | |
| EMOG-17 | | | | | | | | | | | | 0.843 |
| EMOG-17 | | | | | | | | | | | 67 | 0.835 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | 64 | 0.807 |
| limite supérieure | | | | | | | | | | | 70 | 0.867 |
| EMOG-17 | | 5 | 55 | <20 | 0.22 | <10 | <10 | 64 | <10 | 7420 | | |
| Plage d'acceptance - limite inférieure | | 3 | 47 | <20 | 0.18 | <10 | <10 | 58 | <10 | 6780 | | |
| limite supérieure | | 7 | 59 | 50 | 0.25 | 20 | 20 | 74 | 20 | 8290 | | |
| C919-10 | | | | | | | | | | | | |
| C919-10 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| GBM303-4 | | 13 | 26 | <20 | 0.04 | <10 | <10 | 68 | <10 | 199 | | |
| Plage d'acceptance - limite inférieure | | 11 | 21 | <20 | 0.02 | <10 | <10 | 61 | <10 | 176 | | |
| limite supérieure | | 17 | 28 | 60 | 0.06 | 20 | 30 | 77 | 20 | 220 | | |
| GPP-14 | | | | | | | | | | | | |
| GPP-14 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | |
| KIP-19 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| MRGeo08 | | 7 | 81 | 20 | 0.39 | <10 | <10 | 100 | <10 | 801 | | |
| MRGeo08 | | 6 | 77 | 20 | 0.36 | <10 | <10 | 96 | <10 | 752 | | |
| Plage d'acceptance - limite inférieure | | 5 | 71 | <20 | 0.33 | <10 | <10 | 90 | <10 | 708 | | |
| limite supérieure | | 10 | 89 | 60 | 0.43 | 20 | 30 | 112 | 20 | 870 | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | |
|--|----------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % | SiO2 % |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| NCSDC70006 NCSDC70006 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS 220 | | | | | 13.59 | 0.02 | 9.69 | 0.04 | 11.38 | 0.46 | 7.23 | 0.17 | 2.77 | 0.18 | 0.37 | 50.31 |
| Plage d'acceptance - limite inférieure | | | | | 13.12 | <0.01 | 9.28 | 0.02 | 11.00 | 0.42 | 6.92 | 0.14 | 2.60 | 0.15 | 0.31 | 49.10 |
| Plage d'acceptance - limite supérieure | | | | | 14.04 | 0.05 | 10.00 | 0.06 | 11.80 | 0.51 | 7.50 | 0.20 | 2.90 | 0.21 | 0.41 | 51.50 |
| OREAS 252b | | 0.819 | <0.005 | 0.002 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.786 | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | 0.888 | | | | | | | | | | | | | | |
| OREAS 684 | | 0.259 | 4.01 | 1.780 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.232 | 3.63 | 1.615 | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | 0.264 | 4.11 | 1.825 | | | | | | | | | | | | |
| OREAS 905 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-45e | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-45h | | 0.042 | 0.090 | 0.131 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.038 | 0.076 | 0.119 | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | 0.044 | 0.098 | 0.137 | | | | | | | | | | | | |
| PMP-18 | | 0.300 | <0.005 | 0.002 | | | | | | | | | | | | |
| PMP-18 | | 0.299 | <0.005 | 0.001 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.289 | <0.005 | <0.001 | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | 0.327 | 0.010 | 0.002 | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Méthode élément unités LDI | ME-XRF26 SrO % | ME-XRF26 TiO2 % | ME-XRF26 Total % | OA-GRA05x LOI 1000 % | ME-ICP41 Ag ppm | ME-ICP41 Al % | ME-ICP41 As ppm | ME-ICP41 B ppm | ME-ICP41 Ba ppm | ME-ICP41 Be ppm | ME-ICP41 Bi ppm | ME-ICP41 Ca % | ME-ICP41 Cd ppm | ME-ICP41 Co ppm | ME-ICP41 Cr ppm | |
|---|----------------------|-----------------------|------------------------|----------------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|--|
| Description échantillon | 0.01 | 0.01 | 0.01 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| NCSDC70006 NCSDC70006 Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS 220 | 0.03 | 1.28 | 97.66 | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure limite supérieure | <0.01 0.05 | 1.19 1.37 | <0.01 0.02 | | | | | | | | | | | | | |
| OREAS 252b Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS 684 Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS 905 | | | | | 0.4 | 0.78 | 33 | <10 | 240 | 0.9 | 3 | 0.33 | <0.5 | 13 | 17 | |
| Plage d'acceptance - limite inférieure limite supérieure | <0.2 0.9 | 0.73 0.91 | 26 37 | | <10 20 | 200 300 | <0.5 2.0 | <2 10 | 0.29 0.38 | <0.5 1.4 | 11 17 | 15 20 | | | | |
| OREAS 932 OREAS 932 Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-133a OREAS-133a Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-134b OREAS-134b Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| OREAS-45e | | | | 8.53 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure limite supérieure | | | | 8.11 8.99 | | | | | | | | | | | | |
| OREAS-45h Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| PMP-18 PMP-18 Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|-------------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm |
| | | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | | | | | |
| NCSDC70006 | | | | | | | | | | | | | | | | |
| NCSDC70006 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS 252b | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS 684 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS 905 | | 1550 | 3.32 | 10 | <1 | 0.31 | 40 | 0.15 | 341 | 3 | 0.10 | 10 | 230 | 17 | 0.07 | <2 |
| | Plage d'acceptance - limite inférieure | 1450 | 3.14 | <10 | <1 | 0.28 | 20 | 0.13 | 310 | <1 | 0.07 | 6 | 200 | 12 | 0.04 | <2 |
| | limite supérieure | 1670 | 3.86 | 30 | 2 | 0.36 | 60 | 0.19 | 390 | 5 | 0.12 | 11 | 280 | 22 | 0.09 | 5 |
| OREAS 932 | | | | | | | | | | | | | | | | |
| OREAS 932 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | | | | | |
| OREAS-133a | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | | | | |
| OREAS-134b | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS-45e | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| OREAS-45h | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |
| PMP-18 | | | | | | | | | | | | | | | | |
| PMP-18 | | | | | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| | limite supérieure | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|--|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| | | Sc ppm | Sr ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Cu % |
| | | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 |
| CONTRÔLE DE LA QUALITÉ | | | | | | | | | | | | |
| NCSDC70006 | | | | | | | | | | | | 0.010 |
| NCSDC70006 | | | | | | | | | | | <1 | 0.009 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| OREAS 220 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| OREAS 252b | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| OREAS 684 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| OREAS 905 | | 1 | 13 | <20 | 0.02 | <10 | <10 | 5 | <10 | 63 | | |
| Plage d'acceptance - limite inférieure | | <1 | 10 | <20 | <0.01 | <10 | <10 | 4 | <10 | 58 | | |
| Plage d'acceptance - limite supérieure | | 4 | 15 | 50 | 0.04 | 20 | 20 | 8 | 20 | 76 | | |
| OREAS 932 | | | | | | | | | | | | 6.11 |
| OREAS 932 | | | | | | | | | | | 21 | 6.13 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | 5.90 |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | 6.32 |
| OREAS-133a | | | | | | | | | | | | 0.033 |
| OREAS-133a | | | | | | | | | | 100 | | 0.033 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | 93 | | 0.030 |
| Plage d'acceptance - limite supérieure | | | | | | | | | | 101 | | 0.034 |
| OREAS-134b | | | | | | | | | | | | 0.134 |
| OREAS-134b | | | | | | | | | | 205 | | 0.134 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | 196 | | 0.131 |
| Plage d'acceptance - limite supérieure | | | | | | | | | | 212 | | 0.142 |
| OREAS-45e | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| OREAS-45h | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |
| PMP-18 | | | | | | | | | | | | |
| PMP-18 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| Plage d'acceptance - limite supérieure | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|--|----------------------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % |
| BLANCS | | | | | | | | | | | | | | | |
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| BLANK | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |
| BLANK | | | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.01 | 99.68 |
| Plage d'acceptance - limite inférieure | | | | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 97.99 |
| limite supérieure | | | | | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 100.00 |
| BLANK | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |
| BLANK | | 0.002 | <0.005 | 0.001 | | | | | | | | | | | |
| BLANK | | 0.002 | <0.005 | 0.001 | | | | | | | | | | | |
| BLANK | | 0.001 | <0.005 | <0.001 | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | <0.001 | <0.005 | <0.001 | | | | | | | | | | | |
| limite supérieure | | 0.002 | 0.010 | 0.002 | | | | | | | | | | | |
| DUPLICATA | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | | |
|--|----------------------------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--|
| | | SrO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | |
| | | 0.01 | 0.01 | 0.01 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | |
| BLANCS | | | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | | |
| BLANK | | | | | | <0.2 | <0.01 | <2 | <10 | <10 | <0.5 | <2 | <0.01 | <0.5 | <1 | <1 | |
| BLANK | | | | | | <0.2 | <0.01 | <2 | <10 | <10 | <0.5 | <2 | <0.01 | <0.5 | <1 | <1 | |
| BLANK | | | | | | <0.2 | <0.01 | <2 | <10 | <10 | <0.5 | <2 | <0.01 | <0.5 | <1 | <1 | |
| Plage d'acceptance - limite inférieure | | | | | | <0.2 | <0.01 | <2 | <10 | <10 | <0.5 | <2 | <0.01 | <0.5 | <1 | <1 | |
| limite supérieure | | | | | | 0.4 | 0.02 | 4 | 20 | 20 | 1.0 | 4 | 0.02 | 1.0 | 2 | 2 | |
| BLANK | | <0.01 | <0.01 | 99.71 | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | <0.01 | <0.01 | <0.01 | | | | | | | | | | | | | |
| limite supérieure | | 0.02 | 0.02 | 0.02 | | | | | | | | | | | | | |
| BLANK | | | | | 0.01 | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | <0.01 | | | | | | | | | | | | |
| limite supérieure | | | | | 0.02 | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | | |
| DUPLICATA | | | | | | | | | | | | | | | | | |
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| DUP | | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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|--|-------------------------------------|-----------|----------|-----------|-----------|----------|-----------|----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| | | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm |
| | | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 |
| BLANCS | | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| BLANK | | <1 | <0.01 | <10 | <1 | <0.01 | <10 | <0.01 | <5 | <1 | <0.01 | <1 | <10 | <2 | <0.01 | <2 |
| BLANK | | <1 | <0.01 | <10 | <1 | <0.01 | <10 | <0.01 | <5 | <1 | <0.01 | <1 | <10 | <2 | 0.05 | <2 |
| BLANK | | <1 | <0.01 | <10 | <1 | <0.01 | <10 | <0.01 | <5 | <1 | <0.01 | <1 | <10 | <2 | <0.01 | <2 |
| Plage d'acceptance - limite inférieure | | <1 | <0.01 | <10 | <1 | <0.01 | <10 | <0.01 | <5 | <1 | <0.01 | <1 | <10 | <2 | <0.01 | <2 |
| limite supérieure | | 2 | 0.02 | 20 | 2 | 0.02 | 20 | 0.02 | 10 | 2 | 0.02 | 2 | 20 | 4 | 0.02 | 4 |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| DUPLICATA | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | | |
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| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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À: IOS SERVICES GEOSCIENTIFIQUES INC.
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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|--|-------------------------------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|---------------|----------------|----------------|----------------|------------------|
| | | Sc ppm 1 | Sr ppm 1 | Th ppm 20 | Ti % 0.01 | Tl ppm 10 | U ppm 10 | V ppm 1 | W ppm 10 | Zn ppm 2 | Ag ppm 1 | Cu % 0.001 |
| BLANCS | | | | | | | | | | | | |
| BLANK | | | | | | | | | | | | <0.001 |
| BLANK | | | | | | | | | | | <1 | <0.001 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | <1 | <0.001 |
| limite supérieure | | | | | | | | | | | 2 | 0.002 |
| BLANK | | <1 | 1 | <20 | <0.01 | <10 | <10 | <1 | <10 | <2 | | |
| BLANK | | <1 | <1 | <20 | <0.01 | <10 | <10 | <1 | <10 | <2 | | |
| BLANK | | <1 | 1 | <20 | <0.01 | <10 | <10 | <1 | <10 | <2 | | |
| Plage d'acceptance - limite inférieure | | <1 | <1 | <20 | <0.01 | <10 | <10 | <1 | <10 | <2 | | |
| limite supérieure | | 2 | 2 | 40 | 0.02 | 20 | 20 | 2 | 20 | 4 | | |
| BLANK | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| BLANK | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| BLANK | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| DUPLICATA | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | 3 | 0.269 |
| DUP | | | | | | | | | | | 3 | 0.269 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | 2 | 0.261 |
| limite supérieure | | | | | | | | | | | 4 | 0.277 |
| ORIGINAL | | | | | | | | | | | | 0.538 |
| DUP | | | | | | | | | | | | 0.549 |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | 0.529 |
| limite supérieure | | | | | | | | | | | | 0.558 |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total).The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | |
|-------------------------|--|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % | SiO2 % |
| | | 0.001 | 0.005 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | |
| ORIGINAL DUP | | DUPLICATA | | | | | | | | | | | | | | |
| | | 0.006 | <0.005 | 0.001 | | | | | | | | | | | | |
| DUP | | 0.007 | <0.005 | <0.001 | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | 0.005 | <0.005 | <0.001 | | | | | | | | | | | | |
| | limite supérieure | 0.008 | 0.010 | 0.002 | | | | | | | | | | | | |
| ORIGINAL DUP | | 0.012 | <0.005 | 0.001 | | | | | | | | | | | | |
| DUP | | 0.013 | <0.005 | 0.001 | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | 0.011 | <0.005 | <0.001 | | | | | | | | | | | | |
| | limite supérieure | 0.014 | 0.010 | 0.002 | | | | | | | | | | | | |
| ORIGINAL DUP | | <0.001 | <0.005 | 0.001 | | | | | | | | | | | | |
| DUP | | <0.001 | <0.005 | 0.002 | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | <0.001 | <0.005 | <0.001 | | | | | | | | | | | | |
| | limite supérieure | 0.002 | 0.010 | 0.002 | | | | | | | | | | | | |
| ORIGINAL DUP | | 0.004 | <0.005 | <0.001 | | | | | | | | | | | | |
| DUP | | <0.001 | <0.005 | <0.001 | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | <0.001 | <0.005 | <0.001 | | | | | | | | | | | | |
| | limite supérieure | 0.004 | 0.010 | 0.002 | | | | | | | | | | | | |
| ORIGINAL DUP | | | | | 10.00 | 0.01 | 0.78 | <0.01 | 8.68 | 0.94 | 1.80 | 0.17 | 0.46 | 0.04 | 2.41 | 72.08 |
| DUP | | | | | 10.03 | 0.01 | 0.78 | <0.01 | 8.72 | 0.94 | 1.80 | 0.17 | 0.46 | 0.04 | 2.45 | 72.12 |
| | Plage d'acceptance - limite inférieure | | | | 9.85 | <0.01 | 0.76 | <0.01 | 8.56 | 0.91 | 1.76 | 0.16 | 0.44 | 0.03 | 2.30 | 71.01 |
| | limite supérieure | | | | 10.18 | 0.02 | 0.80 | 0.02 | 8.84 | 0.97 | 1.84 | 0.18 | 0.48 | 0.05 | 2.56 | 73.19 |
| ORIGINAL DUP | | 0.010 | 0.017 | 0.011 | | | | | | | | | | | | |
| DUP | | 0.009 | 0.014 | 0.012 | | | | | | | | | | | | |
| | Plage d'acceptance - limite inférieure | 0.008 | 0.010 | 0.010 | | | | | | | | | | | | |
| | limite supérieure | 0.011 | 0.021 | 0.013 | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--|----------------------------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | SrO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm |
| | | 0.01 | 0.01 | 0.01 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 |
| DUPLICATA | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | 5.7 | 0.12 | 28 | <10 | 50 | <0.5 | <2 | 0.03 | 0.9 | 6 | 17 |
| DUP | | | | | | 5.6 | 0.13 | 29 | <10 | 50 | <0.5 | <2 | 0.03 | 0.8 | 6 | 18 |
| Plage d'acceptance - limite inférieure | | | | | | 5.2 | 0.11 | 25 | <10 | 40 | <0.5 | <2 | 0.02 | <0.5 | 5 | 16 |
| limite supérieure | | | | | | 6.1 | 0.14 | 32 | 20 | 60 | 1.0 | 4 | 0.04 | 1.0 | 7 | 19 |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | <0.2 | 0.69 | 4 | <10 | 40 | <0.5 | <2 | 1.81 | <0.5 | 8 | 2 |
| DUP | | | | | | <0.2 | 0.71 | 4 | <10 | 40 | <0.5 | <2 | 1.88 | <0.5 | 8 | 2 |
| Plage d'acceptance - limite inférieure | | | | | | <0.2 | 0.66 | <2 | <10 | 30 | <0.5 | <2 | 1.74 | <0.5 | 7 | <1 |
| limite supérieure | | | | | | 0.4 | 0.75 | 6 | 20 | 50 | 1.0 | 4 | 1.95 | 1.0 | 9 | 3 |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | 0.01 | 0.20 | 101.75 | 3.40 | | | | | | | |
| DUP | | | | | | <0.01 | 0.20 | 101.85 | 3.32 | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | <0.01 | 0.19 | 100.75 | 3.27 | | | | | | | |
| limite supérieure | | | | | | 0.02 | 0.22 | 102.85 | 3.45 | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LD ¹ | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|--|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm |
| | | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 |
| DUPLICATA | | | | | | | | | | | | | | | | |
| ORIGINAL | | 5700 | 4.20 | <10 | <1 | 0.10 | <10 | 0.01 | 52 | 12 | 0.01 | 16 | 120 | 14 | 4.25 | 3 |
| DUP | | 5810 | 4.26 | <10 | <1 | 0.10 | <10 | 0.01 | 53 | 11 | 0.01 | 1 | 120 | 13 | 4.30 | <2 |
| Plage d'acceptance - limite inférieure | | 5550 | 4.01 | <10 | <1 | 0.09 | <10 | <0.01 | 45 | 10 | <0.01 | 7 | 100 | 11 | 4.05 | <2 |
| limite supérieure | | 5960 | 4.45 | 20 | 2 | 0.12 | 20 | 0.02 | 60 | 13 | 0.02 | 10 | 140 | 16 | 4.50 | 4 |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| ORIGINAL | | 15 | 2.30 | <10 | <1 | 0.15 | 20 | 0.49 | 287 | <1 | 0.04 | 8 | 480 | <2 | 0.12 | <2 |
| DUP | | 17 | 2.37 | <10 | 1 | 0.16 | 20 | 0.50 | 293 | <1 | 0.04 | 10 | 500 | <2 | 0.12 | <2 |
| Plage d'acceptance - limite inférieure | | 14 | 2.21 | <10 | <1 | 0.14 | <10 | 0.46 | 271 | <1 | 0.03 | 8 | 460 | <2 | 0.10 | <2 |
| limite supérieure | | 18 | 2.46 | 20 | 2 | 0.17 | 30 | 0.53 | 310 | 2 | 0.05 | 10 | 520 | 4 | 0.14 | 4 |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|--|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| | | Sc ppm | Sr ppm | Th ppm | Ti % | Ti ppm | U ppm | V ppm | W ppm | Zn ppm | Ag ppm | Cu % |
| | | 1 | 1 | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 |
| DUPLICATA | | | | | | | | | | | | |
| ORIGINAL | | <1 | 2 | <20 | <0.01 | <10 | <10 | 5 | <10 | 38 | | |
| DUP | | <1 | 3 | <20 | <0.01 | <10 | <10 | 5 | <10 | 39 | | |
| Plage d'acceptance - limite inférieure | | <1 | <1 | <20 | <0.01 | <10 | <10 | 4 | <10 | 35 | | |
| limite supérieure | | 2 | 4 | 40 | 0.02 | 20 | 20 | 6 | 20 | 42 | | |
| ORIGINAL | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| ORIGINAL | | 1 | 23 | <20 | 0.01 | <10 | <10 | 10 | <10 | 32 | | |
| DUP | | 1 | 24 | <20 | 0.01 | <10 | <10 | 10 | <10 | 33 | | |
| Plage d'acceptance - limite inférieure | | <1 | 21 | <20 | <0.01 | <10 | <10 | 9 | <10 | 29 | | |
| limite supérieure | | 2 | 26 | 40 | 0.02 | 20 | 20 | 12 | 20 | 36 | | |
| ORIGINAL | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |
| ORIGINAL | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | PGM-ICP23 | PGM-ICP23 | PGM-ICP23 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 | ME-XRF26 |
|--|----------------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Au ppm | Pt ppm | Pd ppm | Al2O3 % | BaO % | CaO % | Cr2O3 % | Fe2O3 % | K2O % | MgO % | MnO % | Na2O % | P2O5 % | SO3 % |
| | | 0.001 | 0.005 | 0.001 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| ORIGINAL | | <0.001 | <0.005 | <0.001 | DUPLICATA | | | | | | | | | | |
| DUP | | <0.001 | <0.005 | <0.001 | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | <0.001 | <0.005 | <0.001 | | | | | | | | | | | |
| limite supérieure | | 0.002 | 0.010 | 0.002 | | | | | | | | | | | |
| 141890003 | | <0.001 | <0.005 | 0.003 | | | | | | | | | | | |
| DUP | | <0.001 | <0.005 | 0.003 | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | <0.001 | <0.005 | 0.002 | | | | | | | | | | | |
| limite supérieure | | 0.002 | 0.010 | 0.004 | | | | | | | | | | | |
| 141890014 | | | | | | | | | | | | | | | |
| DUP | | | | | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | | | | | | | | | | | | | | |
| limite supérieure | | | | | | | | | | | | | | | |
| 141890026 | | 0.030 | 0.061 | 0.057 | | | | | | | | | | | |
| DUP | | 0.032 | 0.065 | 0.055 | | | | | | | | | | | |
| Plage d'acceptance - limite inférieure | | 0.028 | 0.055 | 0.052 | | | | | | | | | | | |
| limite supérieure | | 0.034 | 0.071 | 0.060 | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-XRF26 | ME-XRF26 | ME-XRF26 | OA-GRA05x | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|---|-------------------------------------|-----------|-----------|------------|---------------|---------------------------|------------------------------|-------------------|-------------------------|----------------------|-----------------------------|-------------------|-------------------------------|-----------------------------|--------------------------|------------------------------|
| | | SrO % | TiO2 % | Total % | LOI 1000 % | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm |
| | | 0.01 | 0.01 | 0.01 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 |
| ORIGINAL DUP Plage d'acceptance - limite inférieure limite supérieure | | DUPLICATA | | | | | | | | | | | | | | |
| 141890003 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| 141890014 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | 0.3 0.3 <0.2 0.4 | 1.30 1.32 1.23 1.39 | 2 3 <2 4 | <10 <10 <10 20 | 50 50 40 60 | <0.5 <0.5 <0.5 1.0 | 3 3 <2 4 | 0.02 0.02 <0.01 0.03 | <0.5 <0.5 <0.5 1.0 | 362 363 343 382 | 2040 2050 1940 2150 |
| 141890026 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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 Nombre total de pages: 6 (A - D)
 plus les pages d'annexe
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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | |
|---|----------------------------|------------------------------|------------------------------|-----------------------|---------------------|------------------------------|-----------------------|------------------------------|--------------------------|------------------|-------------------------------|------------------------------|--------------------------|---------------------|------------------------------|---------------------|
| | | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | S % | Sb ppm |
| ORIGINAL DUP Plage d'acceptance - limite inférieure limite supérieure | | 1 | 0.01 | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 |
| DUPLICATA | | | | | | | | | | | | | | | | |
| 141890003 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |
| 141890014 DUP Plage d'acceptance - limite inférieure limite supérieure | | 5650 5730 5490 5890 | 27.3 28.0 26.3 29.0 | 10 10 <10 20 | <1 <1 <1 2 | 0.81 0.82 0.76 0.87 | 20 20 <10 30 | 0.64 0.63 0.59 0.68 | 179 179 165 193 | 4 5 3 6 | 0.01 0.01 <0.01 0.02 | 1960 1990 1875 2070 | 290 290 270 310 | <2 <2 <2 4 | 5.00 5.08 4.78 5.30 | <2 <2 <2 4 |
| 141890026 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| Description échantillon | Méthode élément unités LDI | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 |
|---|-------------------------------------|------------------|------------------|-------------------------|------------------------------|-------------------------|-------------------------|----------------------|-------------------------|----------------------|----------------|------------------|
| | | Sc ppm 1 | Sr ppm 1 | Th ppm 20 | Ti % 0.01 | Ti ppm 10 | U ppm 10 | V ppm 1 | W ppm 10 | Zn ppm 2 | Ag ppm 1 | Cu % 0.001 |
| ORIGINAL DUP Plage d'acceptance - limite inférieure limite supérieure | | DUPLICATA | | | | | | | | | | |
| 141890003 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | |
| 141890014 DUP Plage d'acceptance - limite inférieure limite supérieure | | 3 3 2 4 | 3 4 2 5 | <20 <20 <20 40 | 0.25 0.25 0.23 0.27 | <10 <10 <10 20 | <10 <10 <10 20 | 80 81 75 86 | <10 <10 <10 20 | 90 87 82 95 | | |
| 141890026 DUP Plage d'acceptance - limite inférieure limite supérieure | | | | | | | | | | | | |

Commentaire: ME-XRF26: High total was obtained due to sulphides being reported twice (in the LOI value and retained in the fusion adding to the XRF total). The sulfur-free total calculation is the Total minus SO3. SF-Total less than or equal to 100%.

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 Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21153815

| COMMENTAIRE DE CERTIFICAT | | | | | | | | | | | | | |
|---------------------------|---|-----------|---------|----------|---------|-----------|-----------|-----------|--------|--------|--|--|--|
| | COMMENTAIRES ANALYTIQUES | | | | | | | | | | | | |
| Applique à la Méthode: | NSS est échantillon insuffisant. TOUTES MÉTHODES | | | | | | | | | | | | |
| | ADRESSE DE LABORATOIRE | | | | | | | | | | | | |
| Applique à la Méthode: | Traité à ALS Thunder Bay, 645 Norah Crescent, Thunder Bay, ON, Canada | | | | | | | | | | | | |
| | <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>OA-HSUL10</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table> | CRU-31 | CRU-QC | LOG-21 | LOG-23 | OA-HSUL10 | PUL-31 | PUL-QC | SPL-21 | WEI-21 | | | |
| CRU-31 | CRU-QC | LOG-21 | LOG-23 | | | | | | | | | | |
| OA-HSUL10 | PUL-31 | PUL-QC | SPL-21 | | | | | | | | | | |
| WEI-21 | | | | | | | | | | | | | |
| Applique à la Méthode: | Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | | | | | | | | | | | |
| | <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG46</td> <td style="width: 33%;">Cu-OG46</td> <td style="width: 33%;">ME-ICP41</td> <td style="width: 33%;">ME-OG46</td> </tr> <tr> <td>ME-XRF26</td> <td>OA-GRA05x</td> <td>PGM-ICP23</td> <td></td> </tr> </table> | Ag-OG46 | Cu-OG46 | ME-ICP41 | ME-OG46 | ME-XRF26 | OA-GRA05x | PGM-ICP23 | | | | | |
| Ag-OG46 | Cu-OG46 | ME-ICP41 | ME-OG46 | | | | | | | | | | |
| ME-XRF26 | OA-GRA05x | PGM-ICP23 | | | | | | | | | | | |



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plus les pages d'annexe
Finalisée date: 26-AOUT-2021
Compte: NMQ

CERTIFICAT VO21205018

Projet: 2020-1418

Bon de commande #: 18726

Ce rapport s'applique à 4 échantillons de Roche soumis à notre laboratoire de Val d'Or, QC, Canada le 6-AOUT-2021.

Les résultats sont transmis à:

KAREN GAGNE

R. GIRARD

PRÉPARATION ÉCHANTILLONS

| CODE ALS | DESCRIPTION |
|----------|---|
| FND-02a | Localiser échantillon au laboratoire subsidiair |

PROCÉDURES ANALYTIQUES

| CODE ALS | DESCRIPTION | INSTRUMENT |
|----------|---|------------|
| ME-OG46 | Teneur marchandes éléments - Aqua regia | ICP-AES |
| Ni-OG46 | Teneur Marchande Ni - Aqua Regia | |
| S-IR08 | Soufre total (IR Spec) | LECO |

Ce rapport est final et remplace tout autre rapport préliminaire portant ce numéro de certificat. Les résultats s'appliquent aux échantillons soumis. Toutes les pages de ce rapport ont été vérifiées et approuvées avant publication.

***** Voir la page d'annexe pour les commentaires en ce qui concerne ce certificat *****

Signature:

Saa Traxler, General Manager, North Vancouver



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Compte: NMQ

Projet: 2020-1418

CERTIFICAT D'ANALYSE VO21205018

| Description échantillon | Méthode élément unités LDI | Ni-OC46 | S-IR08 |
|-------------------------|-------------------------------------|---------|--------|
| | | Ni % | S % |
| | | 0.001 | 0.01 |
| 141890007 | | | 21.5 |
| 141890013 | | | 22.5 |
| 141890015 | | 1.775 | 26.1 |
| 141890016 | | | 20.3 |

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| | |
|-----------------------------|-------------------|
| CERTIFICAT D'ANALYSE | VO21205018 |
|-----------------------------|-------------------|

| | COMMENTAIRE DE CERTIFICAT | | | | |
|--|--|--|---------|---------|--------|
| Applique à la Méthode: | <table style="width: 100%; border: none;"> <tr> <td style="text-align: center; vertical-align: top;"> ADRESSE DE LABORATOIRE Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02a </td> <td style="text-align: center; vertical-align: top;"> ME-OG46 </td> <td style="text-align: center; vertical-align: top;"> Ni-OG46 </td> <td style="text-align: right; vertical-align: top;"> S-IR08 </td> </tr> </table> | ADRESSE DE LABORATOIRE Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02a | ME-OG46 | Ni-OG46 | S-IR08 |
| ADRESSE DE LABORATOIRE Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02a | ME-OG46 | Ni-OG46 | S-IR08 | | |



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CERTIFICAT CQ VO21205018

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Signature:

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CERTIFICAT D'ANALYSE CQ VO21205018

| Description échantillon | Méthode élément unités LDI | Ni-OG46 Ni % | S-IR08 S % |
|--|-------------------------------------|--------------------|------------------|
| CONTRÔLE DE LA QUALITÉ | | | |
| CCU-1e | | 0.002 | |
| Plage d'acceptance - limite inférieure | | | |
| limite supérieure | | | |
| GBM903-13 | | 2.39 | |
| Plage d'acceptance - limite inférieure | | 2.34 | |
| limite supérieure | | 2.52 | |
| GS310-10 | | | 0.27 |
| Plage d'acceptance - limite inférieure | | | 0.25 |
| limite supérieure | | | 0.29 |
| MA-1b | | | 1.14 |
| Plage d'acceptance - limite inférieure | | | 1.12 |
| limite supérieure | | | 1.22 |
| MP-1b | | <0.001 | |
| Plage d'acceptance - limite inférieure | | <0.001 | |
| limite supérieure | | 0.002 | |
| OREAS 621 | | 0.003 | |
| Plage d'acceptance - limite inférieure | | <0.001 | |
| limite supérieure | | 0.005 | |
| OREAS-76a | | 7.21 | |
| Plage d'acceptance - limite inférieure | | 6.85 | |
| limite supérieure | | 7.35 | |
| BLANCS | | | |
| BLANK | | <0.001 | |
| Plage d'acceptance - limite inférieure | | <0.001 | |
| limite supérieure | | 0.002 | |
| BLANK | | | <0.01 |
| Plage d'acceptance - limite inférieure | | | <0.01 |
| limite supérieure | | | 0.02 |

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Projet: 2020-1418

CERTIFICAT D'ANALYSE CQ VO21205018

| Description échantillon | Méthode élément unités LDI | Ni-OG46 Ni % 0.001 | S-IR08 S % 0.01 |
|-------------------------|-------------------------------------|-----------------------------|---------------------------|
| ORIGINAL DUP | | 0.14 0.15 | DUPLICATA 0.13 0.16 |
| | | | |

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CERTIFICAT D'ANALYSE CQ VO21205018

| | | | |
|------------------------|--|---------|---------|
| | COMMENTAIRE DE CERTIFICAT | | |
| Applique à la Méthode: | ADRESSE DE LABORATOIRE | | |
| | Traité à ALS Vancouver, 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | |
| | FND-02a | ME-OG46 | Ni-OG46 |
| | | | S-IR08 |

APPENDIX 6

PETROGRAPHY

IOS Services Géoscientifiques inc.

NUMERICAL PETROGRAPHY OF TWELVE (12) ROCK SAMPLES USING THE ARTSECTION TECHNOLOGY

HSP PROJECT

Presented to

Mr. Scott Sheldon

Go Metals Corp.

By

Marie-Odile Chartier, P.Geo.

and

Hugues Longuépée, P.Geo., Ph.D.



Ville de Saguenay

Date: November 29th, 2021

Project: 2021-1418

1st copy

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Appendix 1: Optical, backscattered and phase images of the thin sections

Numerical petrography of twelve (12) rock samples using the ARTSection technology

INTRODUCTION

IOS Services Géoscientifiques Inc. has been contacted by Mr Jacob Verbass, V.P. Exploration, on behalf of Go Metals Corporation, to prepare, manage and execute a prospection program on their HSP property located 140 km north of the town of Havre Saint-Pierre, Quebec. Twelve (12) rock sample collected during field work were selected for petrographic study to characterize the nature of their host rocks or sulphide mineralogy and to evaluate their amenability to pentlandite separation through quantitative mineralogy based on ARTSection technology. The list of sample and corresponding polished thin section (PTS) number are presented in **table 1**.

| Sample No. | PTS No. |
|------------|---------|
| 141890007 | 1418-1 |
| 141890012 | 1418-2 |
| 141890013 | 1418-12 |
| 141890014 | 1418-3 |
| 141890026 | 1418-4 |
| 141890027 | 1418-5 |
| 141890028 | 1418-6 |
| 141890032 | 1418-7 |
| 141890033 | 1418-8 |
| 141890037 | 1418-9 |
| 141890038 | 1418-10 |
| 141890039 | 1418-11 |

Table 1: List of samples.

TERMS OF REFERENCES

The main objective of the study is to accurately identify the sulphides, to evaluate the nickel deportment and to provide preliminary metallogenic interpretation from a series of samples coming from the 2021 HSP exploration work. Detailed description of silicates (nature and texture) was not required beyond their relation with the sulphides.

The samples were chosen by IOS according to their location and estimated sulphide content.

OBJECTIVES

The main objective of the study is to accurately quantify the nickel bearing sulphides, to determine deportment of this metal and to provide modal proportions and chemistry of the

Numerical petrography of twelve (12) rock samples using the ARTSection technology

gangue minerals to assess their metallogenic relationships. The study was achieved using ARTSection technology which consists to **i)** acquire transmitted light images with a motorized optical microscope, **ii)** acquire backscattered images (BSE) with a scanning electron microscope (SEM) and **iii)** provide a map of mineral phases with their chemical analysis based on X-ray maps (*Energy Dispersive Spectrometry* - EDS).

METHODOLOGY

SAMPLE PREPARATION

Rock samples were examined by the project manager to select site for thin section manufacturing in order to maximize sulphide abundance. Thin sections were manufactured through standard cutting, milling, lapping down to a thickness of 30 µm, and polished with a 0.2 µm diamond polishing suspension.

Prior the SEM acquisition, polished thin sections are sputtered with a 7 nanometre carbon layer to allow electron dispersion using a Leica EM ACE600 coater coupled with a rotating plate.

ACQUISITION

Mosaics of transmitted light images are acquired with a Zeiss Axio Zoom.V16 coupled with an automated motorized stage and focus, a PlanNeoFluar Z 2.3x/0.57 objective and a 6 megapixels Zeiss AxioCam 506 Colour camera. The mosaics are obtained by the *Tiles* module of the ZEN Pro (Zeiss) software with an optical magnification of 40x, which corresponds to a field of view of 5 mm, a resolution of 1.8 µm, and a depth of field of 62 µm. An overlap between tiles of 10% is used to limit shadowing on the edges of the images. Numerous focusing points are automatically performed on every section to ensure a constant focus. Images are aligned, and merged together using a linear fusion to lower the chromatic aberration.

Backscattered images and X-ray maps were acquired with a Zeiss Sigma 300 VP field emission gun scanning electron microscope (FE-SEM). This fully-automated state of the art instrument is equipped with the latest Oxford Instruments Ultim-Max 170 mm² EDS-SDD detector; a 5 sectors HDBSD backscattered electron detector (BSE), as well as three secondary electron detectors (VPSE, SE and InLens). The main benefit of a FE-SEM is the near perfect stability of the current over time. The EDS-SDD detector is equipped with the latest *Silicon Drift Detector* technology

Numerical petrography of twelve (12) rock samples using the ARTSection technology

allowing the rapid detection of all elements except hydrogen, helium and lithium, capable to process more than 200,000 counts per second while maintaining high spectral resolution.

Acquisition was performed at 20 kV, under deep vacuum, with a collimator aperture of 60 μm (high current) and a working distance of ≈ 10 mm. The detector processes approximately 220,000 effective counts per second (output), divided into 2048 channels. The AZtec software, developed by Oxford Instruments, is used to control the detector, acquire X-Ray maps, cluster maps into phases and export data. Backscattered electron images were acquired independently from the X-ray maps, with a dwell time of 5 μs /pixel, for an image width of 2.1 mm (1024 x 768 pixels; 2.1 μm /pixel). X-ray maps are normalized and the deconvolution into chemical analyses use the factory settings, meaning no calibration on standards were performed prior the ARTSection technology. X-ray maps were acquired with a resolution of 7 μm /pixel, for an image width of 1.79 mm (256 x 192 pixels).

POST-PROCESSING

Mineral phases are defined from the X-ray maps using a clustering algorithm from the AZtec 4.2 software. This algorithm discriminates mineral phases based on chemical variations of a few weight percent abundance. The optimal parameters of the algorithm were selected during the ARTSection-II routine development in order to maximize phase discrimination, but lowering the probability of generating mixes and boundaries. Phases, representing clusters of similar pixels, are discriminated from the chemical signature, but no mineral name is assigned by AZtec, which only provides chemical analyses and modal abundances. EDS spectra of each phase is then reviewed by a professional to detect any automated misinterpretation or false peak labelling. Mineral names are determined from the chemical analyses of the phases by the professional, and MinIdent (Smith and Leibovitz, 1986, a charityware) is used for unusual or uncertain phases.

A phase map in false colours is generated and exported into ZEN. Registration of the BSE and optical images, both of which using different resolutions, is done using affine transformation with 3 fiducial markers. Minor discrepancies between images are locally present, these being acquired with different equipment at different magnifications and resolutions. Modal abundances, as well as chemical analyses deconvoluted from the spectrum representing the sum of similar pixels within the reconstructed phase, are calculated by the software.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

Conventional petrography was done on the same thin sections (once the carbon coating was removed) to validate some of the ARTSection interpretations. Particular attention was given to the possible pyrite-pyrrhotite confusion and to the Ni-sulphides nature and distribution.

LIMITATIONS

- A series of limitations shall be discussed prior to interpretation of the results. Some of them are intrinsic to the acquisition parameters and the use of an EDS detector.
- Samples were coated with carbon, adding a carbon signal to every mineral phase and distorting the radiation of light energies, such as O, F, Cl and Na and Al to some extent.
- The chemical analyses are semi-quantitative since the method cannot measure hydrogen, and oxygen is calculated from oxide proportion instead of measured. Consequently, some minerals and their alteration products can be clustered into one single phase. Backscattered imaging is capable to discriminate olivine from its alteration products, but further image processing would be required to quantify their proportions.
- All phyllosilicate can be tricky to discriminate, despite their varying chemistry. Electron diffraction (EBSD) is needed to properly identify the type of minerals.
- The less abundant is a mineral specie in a sample, the lower is its signal. The spectrum is noisy and some elements cannot be deconvoluted to a concentration. Those values are "0" in the list of the elements, even if a peak was visible. Hafnium in zircon, fluorine in apatite or rare earth elements in monazite are examples.
- The mix of the various minerals in the matrix provides peak patterns on the EDS spectra similar to the one from certain amphiboles, which results into false mineral classification.

Most of those limitations listed above are amplified for altered rocks, such as chloritization, oxidation of iron sulphides, etc.

RESULTS

For each thin section, the following files are provided:

- Aligned images of the thin section, including a mineral classification map, all merged into a .czi file that can be opened by ZEN Lite (free software) or any other image processing software;
- An Excel file with the identified mineral, modal proportions and chemical compositions.

A summary of identified mineral phases is presented in **table 2**.



Numerical petrography of twelve (12) rock samples using the ARTSection technology

Low resolution images (optical, BSE and phases in false colours) accompanied by their respective table containing the identified minerals with their modal proportions and their average chemistries are presented in **appendix 1**.

Textural, chemical and classification (name) information are provided in the following pages.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

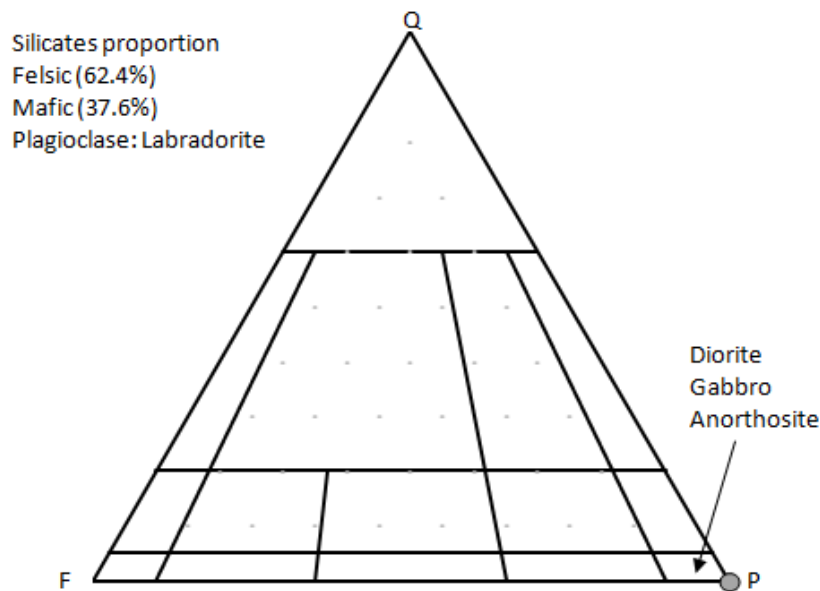
| Mineral | 1418-1 141890007 | 1418-2 141890012 | 1418-12 141890013 | 1418-3 141890014 | 1418-4 141890026 | 1418-5 141890027 | 1418-6 141890028 | 1418-7 141890032 | 1418-8 141890033 | 1418-9 141890037 | 1418-10 141890038 | 1418-11 141890039 |
|-------------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Actinolite | | | | 17.58 | | | | | | | | 0.02 |
| Abite | 0.0003 | 0.132 | | | | 0.054 | | | | | | |
| Aluminosilicate | 0.01 | | | | | | | | 0.0001 | | | |
| Anorthite | 0.13 | 0.06 | 0.04 | | 0.11 | | | | | | 0.02 | 1.05 |
| Apatite | 0.001 | 0.004 | 0.003 | 0.05 | 0.004 | 0.006 | 0.12 | 0.009 | 0.0001 | 0.07 | 0.001 | 0.008 |
| Barite | | 0.01 | | | | | | | | | | |
| Biotite | 2.08 | 2.59 | 1.22 | 25.79 | 0.002 | 0.12 | 0.04 | | 1.94 | 4.03 | 0.0004 | 0.02 |
| Calcite | 0.004 | 0.001 | | | | | | | | | | |
| Chalcopyrite | 4.45 | 0.51 | 0.22 | 1.99 | 0.03 | 0.69 | 0.15 | 0.09 | 0.64 | 1.01 | 1.01 | 2.18 |
| Chamosite | 1.82 | 1.48 | 0.11 | | 0.21 | 2.22 | | | 18.06 | | | |
| Clay | | | 0.04 | | 0.0003 | | | | | | | |
| Clinocllore | 0.004 | | 0.004 | 4.76 | | | | | | | | |
| Corundum | 0.07 | | 0.61 | | | | | | | | | |
| Diopside | | | | | | | 0.001 | 0.57 | 0.008 | | 0.34 | 0.11 |
| Enstatite | | | | | | | 0.03 | 0.008 | | | 84.22 | 80.44 |
| Enstatite-Fe | | | | | | | | | 17.15 | | | |
| Enstatite-Ferrosilite | | | | | | | 71.57 | 88.61 | | | | |
| Epidote | | 0.06 | | | 0.31 | 0.39 | | | | | | |
| Feldspar-K | 0.001 | 2.175 | | | 4.14 | 3.63 | | | 0.003 | | 0.000 | |
| Gedrite | 5.85 | | | | | | | | | 37.93 | | |
| Graphite | | | 4.38 | | | | | | | | | |
| Hercynite-Mg | 0.13 | | | | | | | 0.0001 | | | | |
| Hornblende | | | | | | 0.49 | 4.44 | 5.40 | | | 5.59 | |
| Hornblende + Actinolite | | | | | | | | | | | | 5.09 |
| Ilmenite | 5.57 | 0.32 | | 0.005 | 0.03 | | 0.63 | 0.35 | 0.55 | 1.78 | 0.41 | 0.20 |
| Ilmenite-Mn | | | | | | 0.04 | | | | | | |
| Magnesite-Siderite | | | | | | | 0.006 | 0.02 | | | 0.0005 | 0.15 |
| Molybdenite | | | 0.003 | | | | | | | | | |
| Monazite | | | | | | | | | | 0.0001 | | |
| Muscovite | | 0.007 | | 0.0003 | 0.005 | | | | | | | 0.15 |
| Oxide-Fe | 6.38 | 0.09 | 0.14 | 4.89 | 0.01 | | 0.23 | 0.12 | 39.58 | 0.63 | 0.15 | |
| Oxide-Fe + Siderite | | | | | | | | | | | | 0.55 |
| Oxide-FeCr | | | | 1.28 | | | | | | | | 0.04 |
| Oxide-FeTi | 0.88 | 0.16 | | | 0.01 | | | 0.10 | | | | |
| Oxide-MgFe | | | | | | | | | | 0.0001 | | |
| Pargasite | | | | | 0.29 | | | | 1.34 | | | |
| Pargasite-Tschermakite | | | | | | | | | | | | |
| Pentlandite | 0.61 | 0.01 | 0.10 | 0.04 | 0.07 | 0.16 | 0.05 | 0.07 | 0.17 | 0.36 | 0.14 | 0.14 |
| Plagioclase | 16.05 | 88.66 | | | 91.85 | 79.13 | 2.98 | 0.85 | 3.18 | 15.38 | | 0.02 |
| Pyrite | 0.03 | | | | 0.04 | 0.002 | 0.70 | 0.16 | 10.14 | 0.91 | 0.03 | 0.21 |
| Pyrrhotite | 50.23 | 2.00 | 66.38 | 6.26 | 1.44 | 9.55 | 17.72 | 3.62 | | 27.26 | 7.99 | 9.54 |
| Pyrrhotite (altered) | 5.68 | | | | | 2.32 | | | 5.38 | | | |
| Quartz | 0.02 | 1.69 | | 37.36 | 1.36 | 1.18 | 1.07 | 0.02 | 1.86 | 0.84 | 0.10 | 0.05 |
| Rutile | 0.006 | 0.04 | 0.48 | 0.0003 | 0.001 | | 0.01 | | 0.001 | 0.001 | | 0.02 |
| Sapphirine | | | 26.26 | | | | | | | | | |
| Sphalerite | 0.0004 | | | 0.004 | | | | | | | | |
| Spinel-Fe | | | 0.001 | | | | | | | | | |
| Sylvialite | | | | | | | | | | 0.03 | | |
| Titanite | | | | | 0.11 | | | | 0.0001 | | | |
| Tremolite-Actinolite | | | | | | | 0.25 | | | | | |
| Tschermakite | | | | | | | | | | 9.75 | | |
| Xenotime | | | | 0.006 | | | | | | | | |
| Zircon | 0.002 | 0.0002 | 0.0005 | 0.005 | | | 0.000 | 0.000 | 0.004 | 0.004 | 0.001 | 0.001 |
| Zoisite | | | 0.002 | | | | | | | | | |

Table 2: Summary of identified minerals and their abundances measured on the sections.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890007

| | |
|------------------------|---|
| Sample number | 141890007 |
| Thin section | 1418-1 |
| Name | Massive sulphides (with anorthosite) |
| Texture | Rounded silicates in massive pyrrhotite (primary texture) |
| Sulphides (%) | 61.00 |
| Alteration | Oxidation (moderate), chloritization (moderate) |
| Silicates (%) | 25.97 |
| Oxides (%) | 12.90 |
| Mg# (silicates) | 31.98 |
| Ni# (sulphides) | 1.57 |



This sample is mostly composed of partially altered pyrrhotite. The alteration is localised at the boundaries of grains and within fractures. Grains of rutile are small and its signal is therefore mixed with ilmenite and other surrounding phases. The gedrite is chloritized and is fastidious to identify even under the optical microscope. It could be an orthopyroxene. The conventional petrography indicates an overestimation of the pyrrhotite (confusion with pyrite). The alteration

Numerical petrography of twelve (12) rock samples using the ARTSection technology

that affects pyrrhotite is also seen in pentlandite which is replaced by violarite/bravoite (**photo 1**).

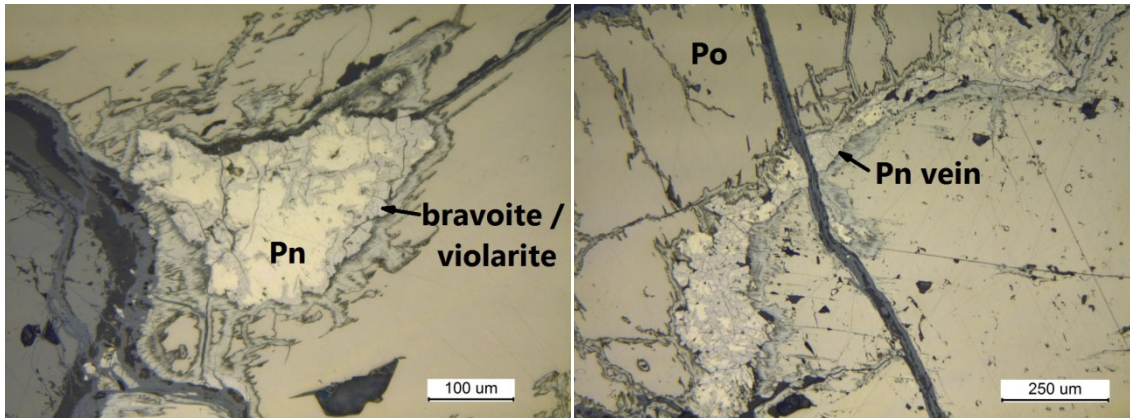
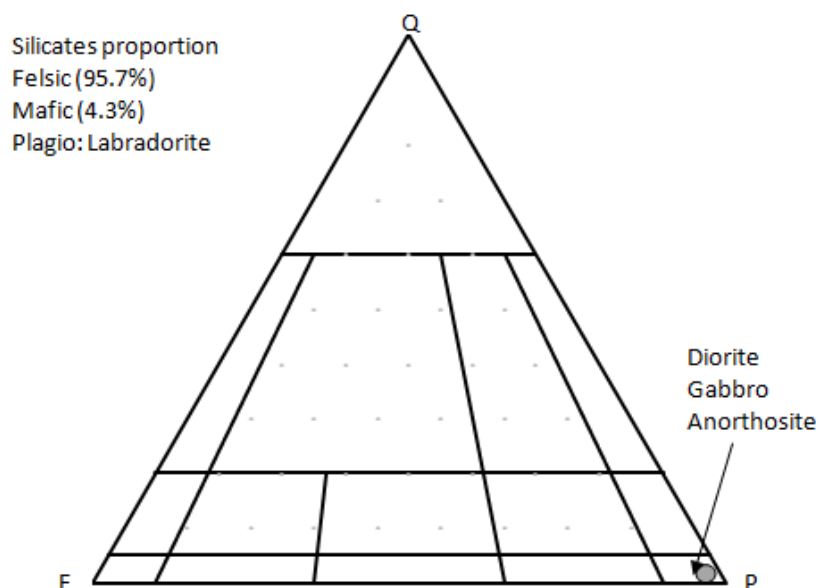


Photo 1: Left: Pentlandite being replaced by a bravoite ((Fe,Ni,Co)S₂) – violarite (Ni₂FeS₄) assemblage in partially altered pyrrhotite. Sample 141890007 (section 1418-1) (RL 200x). Right: Pentlandite vein altered into bravoite-violarite. Sample 141890007 (section 1418-1) (RL 100x).

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890012

| | |
|-----------------|-----------------------------------|
| Sample number | 141890012 |
| Thin section | 1418-2 |
| Name | Anorthosite |
| Texture | Massive. Sulphide-biotite cluster |
| Alteration | Chloritization (moderate) |
| Sulphides (%) | 2.52 |
| Silicates (%) | 96.86 |
| Oxides (%) | 0.61 |
| Mg# (silicates) | 17.46 |
| Ni# (sulphides) | 0.9 |



Sample **141890012** is mostly composed of plagioclase, feldspar-K and biotite. The biotite is partially chloritized into chamosite (iron-rich chlorite) and fine epidote grains can be observed associated with chamosite locally. The epidote signal is mixed with chamosite due to the small grain size. The generic name epidote is therefore given, but could also be pumpellyite, which uncertainty was not resolved under the optical microscope. The fine lamellar Oxide-FeTi is strongly linked to ilmenite and rutile, so the signal of Oxide-FeTi is mixed with these latter.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890013

| | |
|-----------------|---|
| Sample number | 141890013 |
| Thin section | 1418-12 |
| Name | Massive Sulphide |
| Texture | Coarse sulphides with silicates droplet (primary) |
| Alteration | None |
| Sulphides (%) | 66.70 |
| Silicates (%) | 27.68 |
| Oxides (%) | 1.12 |
| Mg# (silicates) | 65.59 |
| Ni# (sulphides) | 0.58 |

Sample **141890013** is mostly composed of pyrrhotite, sapphirine and graphite. The proportion of sapphirine (24%) is extremely unusual and its grey colour uncharacteristic but the chemical composition and stoichiometry point to this mineral. Conventional microscopy confirmed the nature of the mineral. Magnesium-rich sapphirine tends to be grey (as observed here) rather than the typical blue.

The mineralogy of this sample can be considered as an oddity with sapphirine and graphite as minerals with the second and third highest proportions. This and the fact that there are more than 66% sulphides suggest a subsilic, oxygen-depleted magma.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890014

| | |
|-----------------|-------------------------------|
| Sample number | 141890014 |
| Thin section | 1418-3 |
| Name | Gneiss with sulphide vein (?) |
| Texture | Gneissic |
| Alteration | Chloritization (moderate) |
| Sulphides (%) | 8.29 |
| Silicates (%) | 85.49 |
| Oxides (%) | 6.17 |
| Mg# (silicates) | 48.96 |
| Ni# (sulphides) | 1.14 |

Sample **141890014** is mostly composed of quartz, biotite, actinolite, pyrrhotite, oxide-Fe and clinocllore. Several voids partly filled with oxides are observed throughout the section and are not properly distinguished due to the mixed signal between those voids and the various minerals within. Also, the clinocllore is not stoichiometric due to a slight mixed signal with surrounding phases. There is an obvious confusion between pyrrite and pyrrhotite.



Figure 1: Thin section of sample 141890014 under natural light. The lighter part is quartz-rich, the greenish medium grey is actinolite-rich and the black edge is sulphide-rich vein.



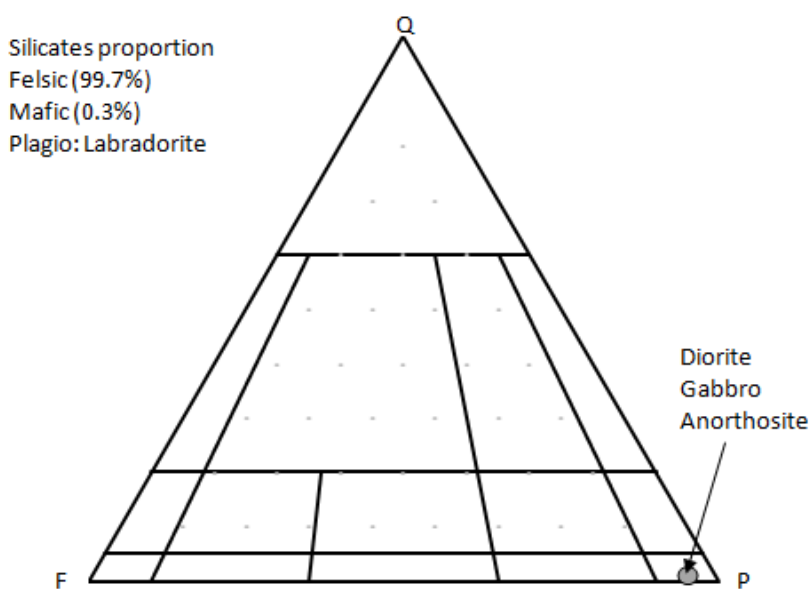
Numerical petrography of twelve (12) rock samples using the ARTSection technology

The texture/structure clearly shows a quartz-biotite layer with a rounded actinolite-rich fragment (?) (**figure 1**). The quartz-biotite layer is bordered by a biotite-sulphide-oxide vein (?). This sample was taken from the grey gneiss.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890026

| | |
|-----------------|---|
| Sample number | 141890026 |
| Thin section | 1418-4 |
| Name | Anorthosite |
| Texture | Massive with interstitial sulphides and few isolated sulphides grains |
| Alteration | Chloritization (weak) |
| Sulphides (%) | 1.57 |
| Silicates (%) | 98.26 |
| Oxides (%) | 0.05 |
| Mg# (silicates) | 4.39 |
| Ni# (sulphides) | 3.00 |



Sample **141890026** is mostly composed of plagioclase, feldspar-K, pyrrhotite and quartz. The pargasite is chloritized. The signal of anorthite is mixed with the one from less calcic plagioclase, falsely increasing its measured Na content. The algorithm has difficulty to make distinction between contiguous phases of similar major elements on very fast analysis per pixel. Those mixed signals are observed with the rutile mixed with titanite, as well as the titanite mixed

Numerical petrography of twelve (12) rock samples using the ARTSection technology

with fine ilmenite. Pentlandite is found with pyrrhotite and almost completely altered in bravoite (*photo 2*).

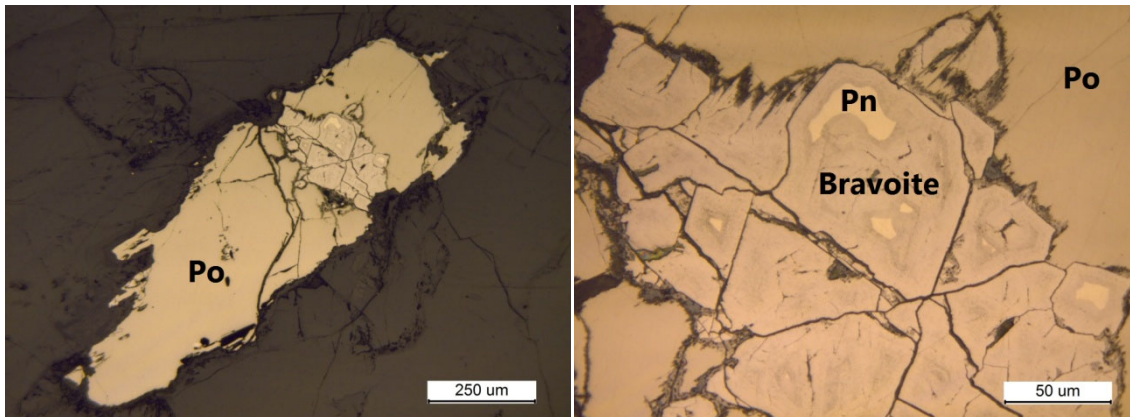
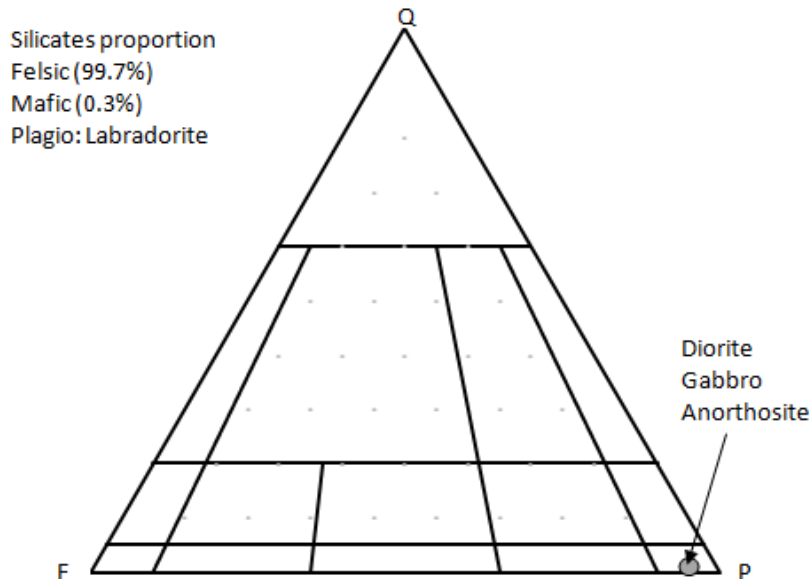


Photo 2: Left: Pentlandite grains within pyrrhotite. Sample 141890026 (thin section 1418-4) (RL, 100x). Right: Close-up showing replacement of pentlandite by bravoite (RL, 500x).

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890027

| | |
|-----------------|---|
| Sample number | 141890027 |
| Thin section | 1418-5 |
| Name | Anorthosite |
| Texture | Massive with large clusters of interstitial sulphides |
| Alteration | Chloritization (moderate) |
| Sulphides (%) | 12.73 |
| Silicates (%) | 87.23 |
| Oxides (%) | 0.04 |
| Mg# (silicates) | 8.19 |
| Ni# (sulphides) | 2.89 |



Sample **141890027** is mostly composed of plagioclase, pyrrhotite and feldspar-K. The algorithm does not make the difference between pyrite and pyrrhotite when they are contiguous. The same issue is observed for chamosite and hornblende, where their distinction is uneven on the section. Proportions of those minerals are approximative.

The alteration of both pyrrhotite and pentlandite (**photo 3**) leads to a possible confusion in sulfide mineralogy. What have been identified by ARTSection as altered pyrrhotite with 7.72%

Numerical petrography of twelve (12) rock samples using the ARTSection technology

Ni is more likely a mix of pyrrhotite and nickel sulfide. Pentlandite is altered in bravoite and violarite.

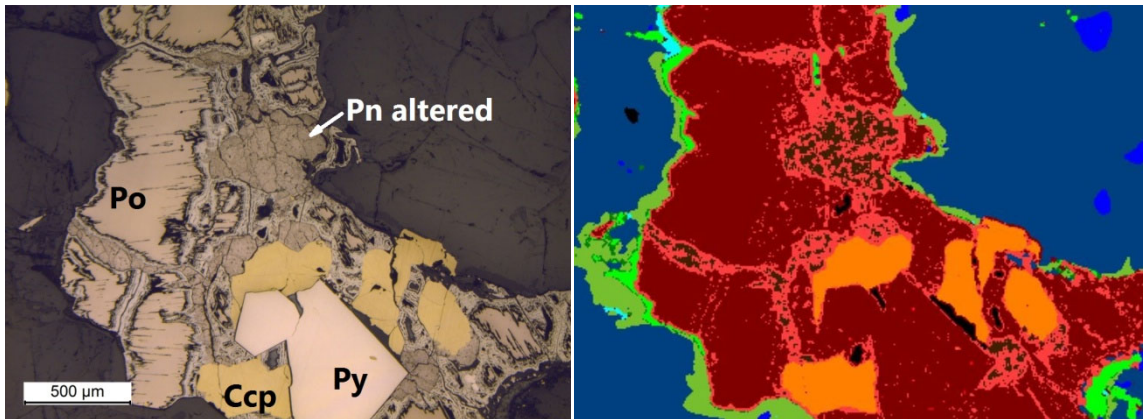
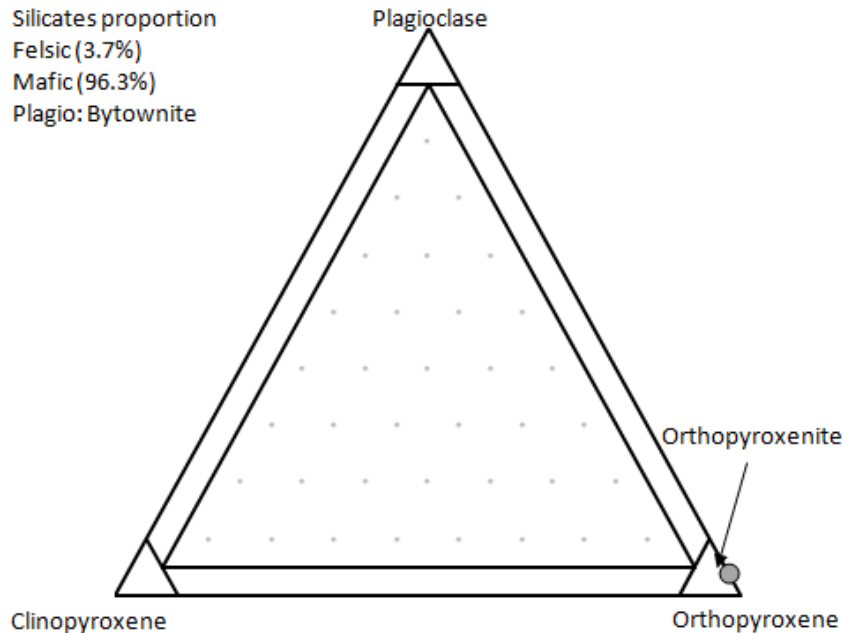


Photo 3: Left: Sulphide cluster composed of pyrite, chalcopyrite, pyrrhotite (fresh and altered) and altered pentlandite. Sample 141890027 (thin section 1418-5) (RL, 50x). Right: Same section but with ARTSection colours. Grains of chalcopyrite have clean edges while rims of iron sulfides are altered.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890028

| | |
|-----------------|--|
| Sample number | 141890028 |
| Thin section | 1418-6 |
| Name | Orthopyroxenite |
| Texture | Annealed (cumulate) with interstitial sulphides. |
| Alteration | None |
| Sulphides (%) | 18.61 |
| Silicates (%) | 80.38 |
| Oxides (%) | 0.87 |
| Mg# (silicates) | 47.45 |
| Ni# (sulphides) | 0.99 |



Sample **141890028** is composed in majority of enstatite-ferrosilite, pyrrhotite, hornblende and plagioclase. It displays a well-defined cumulate texture. While pentlandite is granular in all samples, it is mostly present as “flames” in pyrrhotite (**photo 4**). It is also found in contact with pyrrhotite and chalcopyrite.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

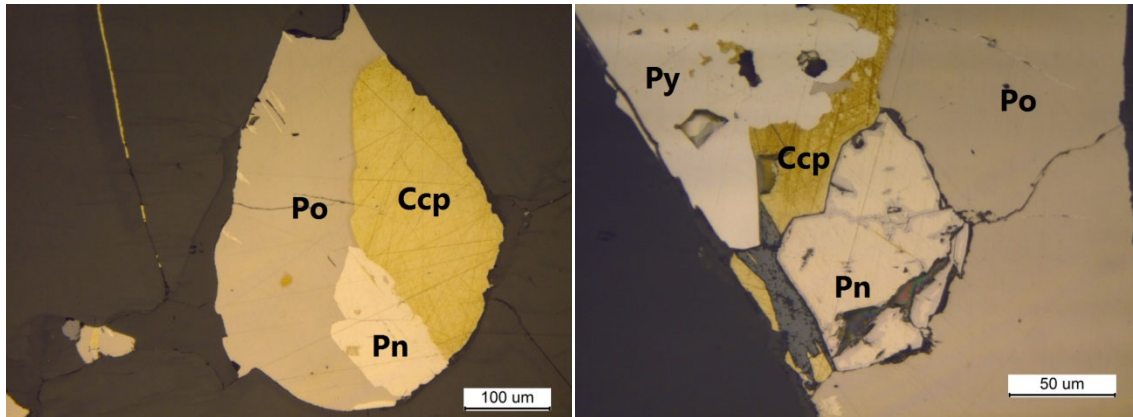
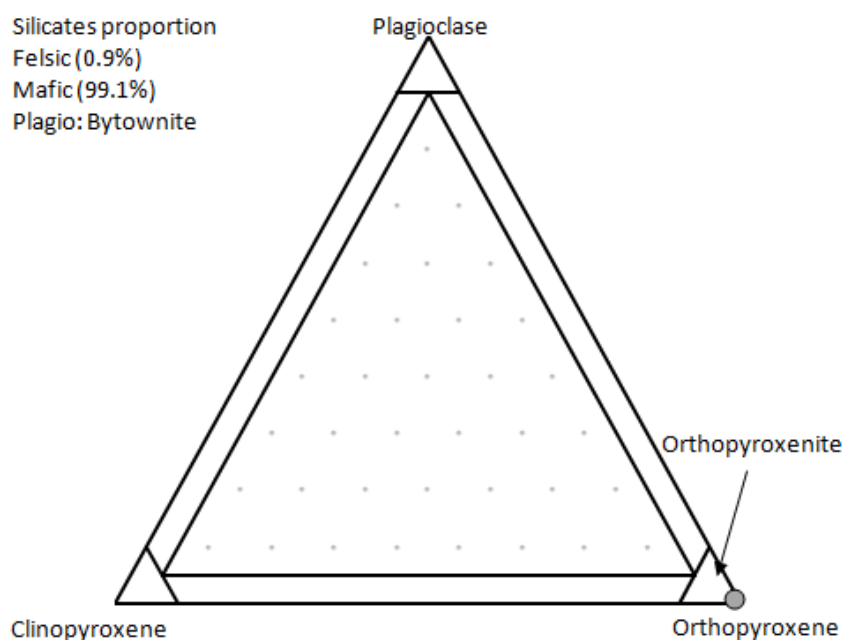


Photo 4: Left: Pentlandite as flame (thin vein/exsolution) or at the contact with pyrrhotite and chalcopyrite. Sample 141890018 (thin section 1418-6) (RL, 200x). Right: Another example of pentlandite in contact with chalcopyrite. Pentlandite is partially altered (bravoite). (RL, 500x).

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890032

| | |
|-----------------|---|
| Sample number | 141890032 |
| Thin section | 1418-7 |
| Name | Orthopyroxenite |
| Texture | Annealed (cumulate) with little interstitial sulphides. |
| Alteration | None |
| Sulphides (%) | 3,95 |
| Silicates (%) | 95,46 |
| Oxides (%) | 0,56 |
| Mg# (silicates) | 45,5 |
| Ni# (sulphides) | 1,71 |

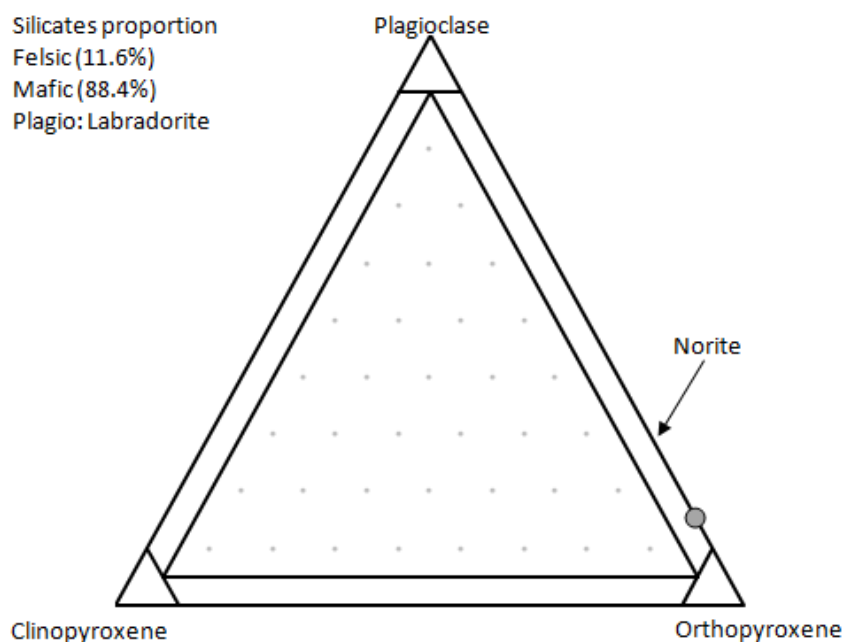


Sample **141890032** is mostly composed by enstatite-ferrosilite, hornblende and pyrrhotite. The signal of pyrrhotite is mixed with the pyrite one and locally the signal of pyrite is mixed with the one of pyrrhotite, particularly where pyrrhotite is altered (birds eyes texture). The sample shows a cumulate texture in an orthopyroxenite with a relatively high Mg#.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890033

| | |
|-----------------|---|
| Sample number | 141890033 |
| Thin section | 1418-8 |
| Name | Norite (altered orthopyroxenite) |
| Texture | Breccia (possible durchbewegung) |
| Alteration | Oxidation (strong), chloritization (strong) |
| Sulphides (%) | 16.33 |
| Silicates (%) | 43.55 |
| Oxides (%) | 40.12 |
| Mg# (silicates) | 31.80 |
| Ni# (sulphides) | 1.91 |



Sample **141890033** is mostly composed of iron oxides, chamosite, enstatite-Fe, pyrite and pyrrhotite. The signal of pyrrhotite is mixed with the pyrite for similar reasons described above. The distinction can be done by the texture of the mineral, where pyrite is equigranular and pyrrhotite presents a “bird’s eyes” texture, typical of its alteration. The diopside is amphibolitized.



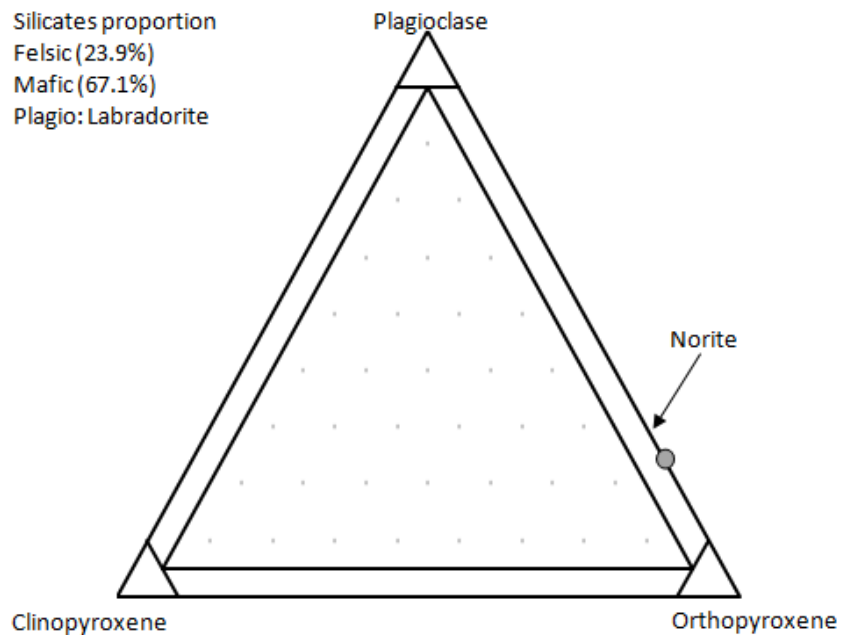
Numerical petrography of twelve (12) rock samples using the ARTSection technology

The sample show strong alteration and a brecciated (durchbewegung) texture. The classification diagram doesn't account for the 18% of chlorite (altered pyroxene?) and therefore, it is possible that the original rock was a pyroxenite rather than a norite.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890037

| | |
|-----------------|-----------------------------|
| Sample number | 141890037 |
| Thin section | 1418-9 |
| Name | (amphibolitized) norite (?) |
| Texture | Breccia |
| Alteration | None |
| Sulphides (%) | 29.53 |
| Silicates (%) | 67.25 |
| Oxides (%) | 2.42 |
| Mg# (silicates) | 46.8 |
| Ni# (sulphides) | 1.36 |



Sample **141890037** is mostly composed of gedrite, pyrrhotite, plagioclase and tschermakite. False outlines of tschermakite (processing artefact) surround plagioclase and biotite grains due to the contiguous relationship of those minerals. The same phenomenon occurs with the rim of pyrrhotite around iron oxide grains. Iron oxide veinlets in pyrrhotite grains are not distinguished

Numerical petrography of twelve (12) rock samples using the ARTSection technology

to their thinness and are included in the pyrrhotite signal. The BSE image can be used to see those. Pentlandite is well preserved as vein in pyrrhotite (**photo 5**).

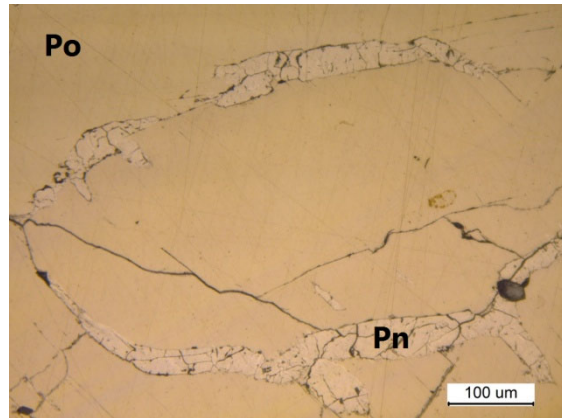


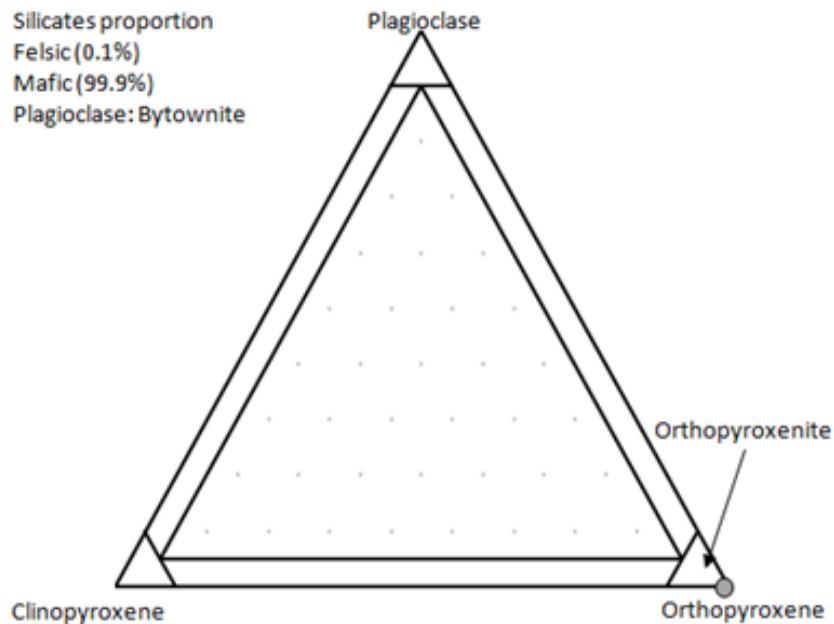
Photo 5: Well preserved pentlandite in pyrrhotite. Sample 1418038 (thin section 1418-9) (RL, 200x).

The mafic minerals are mostly amphiboles (gedrite, tschermakite) which is different for all other mafic/ultramafic rocks from the sample set where pyroxene are the dominant minerals. This suggests a metamorphic / alteration process and therefore the rock is interpreted as a amphibolitized norite. The sample has a brecciated texture with rounded host-rock fragment in a sulphide matrix. The proportion of sulphide (29.5%) is just below the proportion of semi-massive sulphide (30%).

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890038

| | |
|-----------------|--------------------------------------|
| Sample number | 141890038 |
| Thin section | 1418-10 |
| Name | Orthopyroxenite |
| Texture | Cumulate with interstitial sulphides |
| Alteration | None |
| Sulphides (%) | 9.16 |
| Silicates (%) | 90.28 |
| Oxides (%) | 0.56 |
| Mg# (silicates) | 45.6 |
| Ni# (sulphides) | 2.36 |

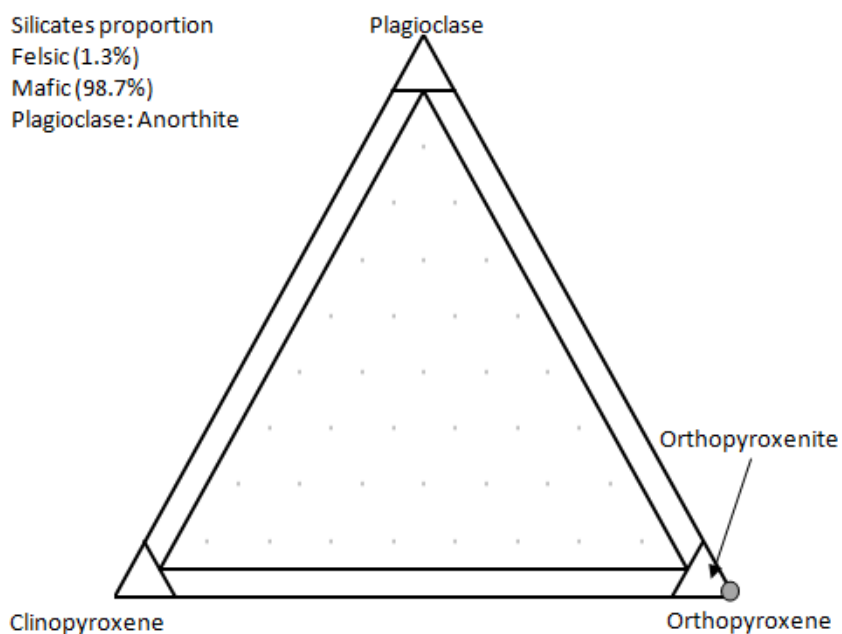


Sample **141890038** is mostly composed of enstatite, pyrrhotite and hornblende. Locally, the pyrrhotite and the chalcopyrite signal are mixed with pyrite's. Thus, the pyrite grains do not stand out as well in the phase image as in the BSE image.

Numerical petrography of twelve (12) rock samples using the ARTSection technology

SAMPLE 141890039

| | |
|-----------------|--------------------------------------|
| Sample number | 141890039 |
| Thin section | 1418-11 |
| Name | Orthopyroxenite |
| Texture | Cumulate with interstitial sulphides |
| Alteration | Oxides-carbonates (weak) |
| Sulphides (%) | 12.07 |
| Silicates (%) | 86.96 |
| Oxides (%) | 0.81 |
| Mg# (silicates) | 48.0 |
| Ni# (sulphides) | 1.50 |



Sample **141890039** is composed in majority of enstatite, pyrrhotite and a phase labelled “Hornblende + Actinolite”. The contiguously and the similarity between both minerals were not sufficient for the algorithm to distinctively observe both on very fast analysis (300 μ s/pixel). It is the same situation or Oxide-Fe and siderite. Many fractures seen in the BSE image are not



Numerical petrography of twelve (12) rock samples using the ARTSection technology

visible due to the thinness of the minerals that fill them. The muscovite is associated to anorthite alteration.

This sample is the most mafic of the series with an Mg# of 48 and the plagioclase being an anorthite (An₉₁).

CONCLUSIONS

The first objective of the study was to accurately quantify the nickel bearing sulphides. Pentlandite was observed in all samples, from 0.01% to 0.6% (141820007). In many samples, the composition of pentlandite is not stoichiometric and the phase could be a violarite or a mix of the two phases. Pentlandite is also Co-bearing. Conventional petrography was used to observe and describe finer grains not properly observed with the used EDS resolution, and to notice that pentlandite is mostly present as grains that are variably altered in bravoite and violarite. Only sample 141890018 shows a predominance of pentlandite as flame in pyrrhotite. The presence of Ni-rich altered pyrrhotite suggests that the pentlandite content may be underestimated in altered samples. There is confusion between pyrite and pyrrhotite, the later being underestimated.

The second objective was to determine nickel department. This metal is mostly present in pentlandite and its alteration products. A phase, identified as altered pyrrhotite, contains a significant proportion of nickel. This mineral is more likely a fine mix of pyrrhotite, pentlandite and other sulphide. Nickel is also found in chlorite-biotite (sample 141890033; altered pyroxenite) and in oxides of sample 141890012.

Finally, the chemistry and mineralogy of the gangue minerals suggests two types of mineralization. The first is massive sulphide with anorthosite fragments and the second disseminated sulphides in the interstices of ultramafic rocks. On occasion (samples 141890012 and -26), sulphides are disseminated in the anorthosite. Sample 141890014 shows injections of sulphides in the gneiss while samples 141890033 and -37 are breccias with sulphides/oxides as the matrix and with different degrees of alteration.

2021-1418_ARTSection_Report
HSP Project, November 29th, 2021


Hugues Longu  p  , P. Geo.
OGQ n   730

2021-1418_ARTSection_Report
HSP Project, November 29th, 2021


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OGQ n   2069



Numerical petrography of twelve (12) rock samples using the ARTSection technology

Contributions:

Réjean Girard, P.Geo. : Scientific revision

Lucie Tremblay, P.Geo. : Mineragraphy validation

Jonathan Tremblay, Eng., M.Sc.: Data acquisition

Karine Desbiens, administrative assistant: edition

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SMITH, D.G.W., and LEIBOVITZ, D.P. (1986). *MinIdent - a data base for minerals and a computer program for their identification*. The Canadian Mineralogist, 24: 695-708.

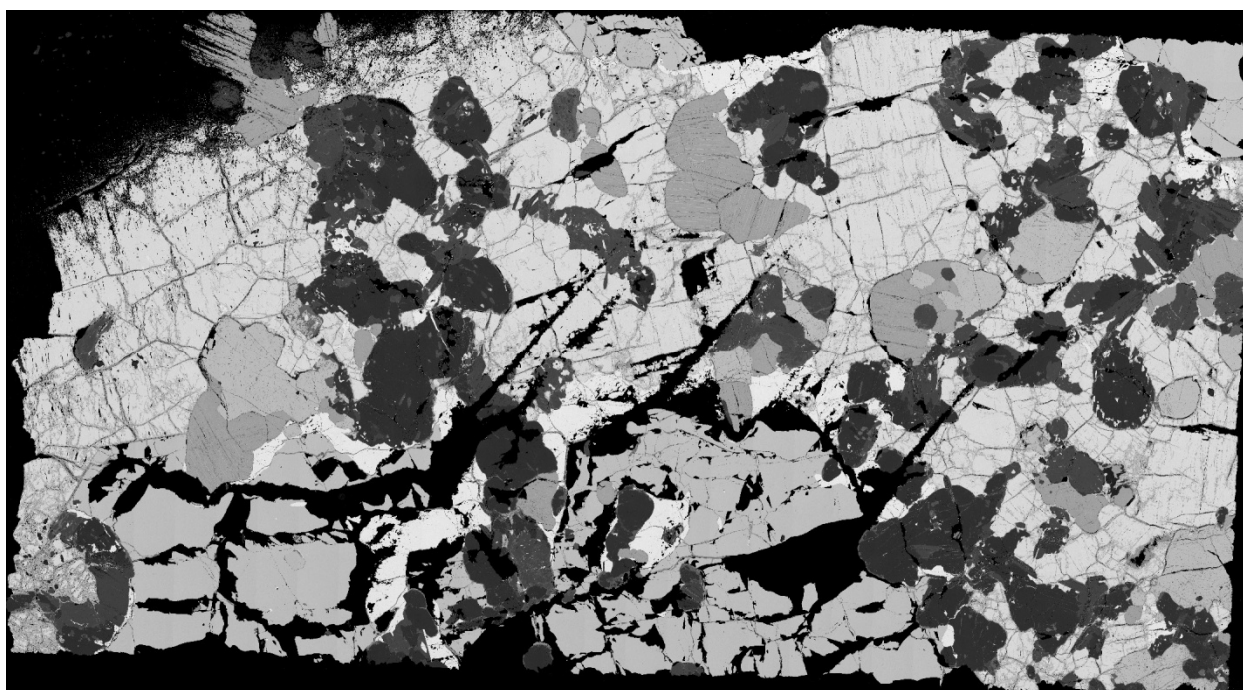
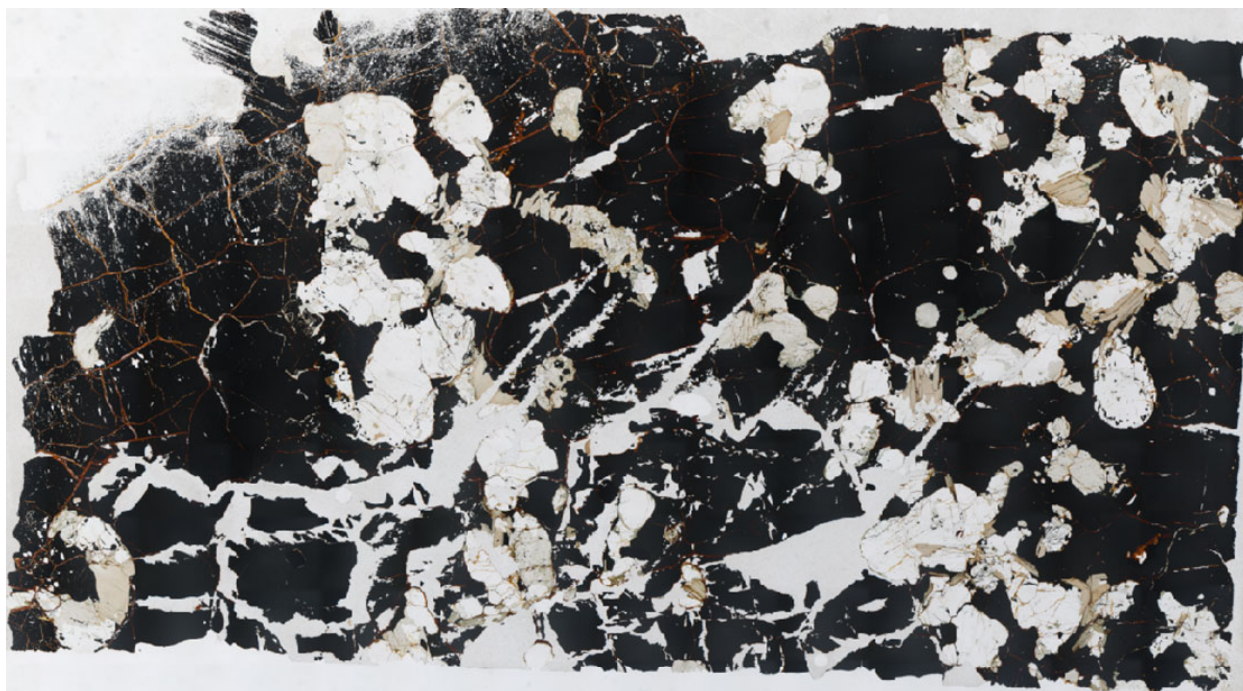
APPENDIX 1

OPTICAL, BACKSCATTERED AND PHASE IMAGES OF THE THIN SECTIONS, AS WELL AS THE TABLES CONTAINING THE MINERAL PHASES, THEIR MODAL PROPORTIONS AND THEIR CHEMICAL COMPOSITIONS

The .czi files are provided for each section and can be used to see the grains of interest on the backscattered images and to note their coordinates for point analysis in semi-quantitative or in fully-quantitative mode, either for trace minerals or the alteration products.

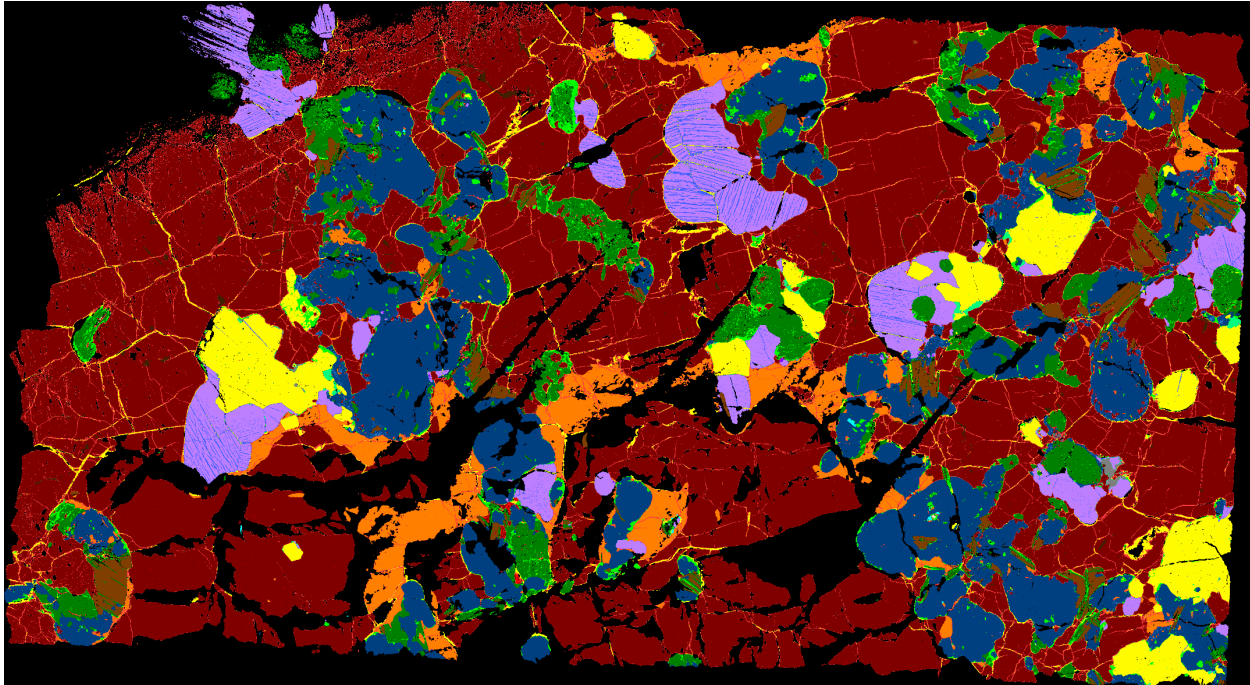
141890007 (1418-1)

Numerical petrography of twelve (12) rock samples
using the ARTSection technology



141890007 (1418-1): *Optical (natural light) and backscattered electron image mosaic.*

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890007 1418-1

| Mineral | Color | % | F | Cl | CO2 | Na2O | MgO | Al2O3 | SiO2 | P2O5 | SO3 | K2O | CaO | TiO2 | V2O5 | Cr2O3 | MnO | FeO | NiO | CuO | ZnO | ZrO2 | BaO | HfO2 | Total |
|----------------------|-------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|------|-------|-------|------|------|-------|
| Plagioclase | | 16.05 | | | | 5.31 | | 29.03 | 54.72 | | | 0.09 | 10.24 | | | | | 0.60 | | | | | | | 100 |
| Oxide-Fe | | 6.38 | | | | | | 1.20 | 0.82 | | | | | | 0.70 | 0.67 | | 96.62 | | | | | | | 100 |
| Gedrite* | | 5.85 | | | | 16.88 | 15.39 | 44.50 | | | | | 0.46 | 0.35 | | | | 0.75 | 21.68 | | | | | | 100 |
| Pyrrhotite (altered) | | 5.68 | | | | | | | | | 45.16 | | | | | | | 49.07 | 2.25 | 3.53 | | | | | 100 |
| Ilmenite | | 5.57 | | | | 0.90 | 0.23 | 0.24 | | | | | 46.48 | | 0.08 | 0.62 | | 51.46 | | | | | | | 100 |
| Biotite | | 2.08 | 0.47 | | 0.41 | 16.89 | 19.12 | 38.42 | | | | 8.37 | | 1.77 | | | | 13.95 | | | | | 0.59 | | 100 |
| Chamosite | | 1.82 | | | | 7.18 | 17.64 | 31.65 | | | | | | | | | | 43.53 | | | | | | | 100 |
| Oxide-FeTi | | 0.88 | | | | 1.13 | 2.68 | 3.37 | | | | | | 22.51 | | | 0.39 | 69.92 | | | | | | | 100 |
| Anorthite | | 0.13 | | | 1.47 | | 35.42 | 45.24 | | | | 0.07 | 17.79 | | | | | | | | | | | | 100 |
| Hercynite-Mg | | 0.13 | | | | 7.07 | 58.95 | | | | | | | 0.88 | | 0.89 | | 21.23 | | | 10.99 | | | | 100 |
| Corundum | | 0.071 | | | | | | 98.41 | | | | | | | | 0.26 | | 1.33 | | | | | | | 100 |
| Quartz | | 0.022 | | | | | | | 100 | | | | | | | | | | | | | | | | 100 |
| Aluminosilicate | | 0.013 | | | | | | 62.34 | 35.42 | | | | | | | | | 2.24 | | | | | | | 100 |
| Rutile | | 0.006 | | | | 2.27 | 3.58 | 7.12 | | | | | | 65.67 | | | | 21.36 | | | | | | | 100 |
| Clinocllore | | 0.004 | | | | 29.40 | 27.12 | 31.03 | | | | | | | | | | 12.45 | | | | | | | 100 |
| Calcite | | 0.004 | | | 35.66 | | 0.00 | | | | | | 58.11 | | | | | 6.23 | | | | | | | 100 |
| Zircon | | 0.002 | | | | | | 33.03 | | | | | | | | | | | | | | 66.97 | | 0.00 | 100 |
| Feldspar-K | | 0.001 | | | | 0.00 | | 19.32 | 64.60 | | | 16.08 | 0.00 | | | | | 0.00 | | | | | 0.00 | | 100 |
| Apatite | | 0.001 | 0.00 | 0.00 | | | | | | 42.51 | | | 57.49 | | | | | | | | | | | | 100 |
| Albite | | 0.0003 | | | | 11.92 | | 20.87 | 67.21 | | | 0.00 | 0.00 | | | | | | | | | | | | 100 |

| Mineral | Color | % | S | Fe | Co | Ni | Cu | Zn | Total |
|--------------|-------|--------|-------|-------|------|-------|-------|-------|-------|
| Pyrrhotite | | 50.23 | 43.66 | 55.95 | | 0.39 | | | 100 |
| Chalcopyrite | | 4.45 | 34.06 | 31.46 | | | 34.48 | | 100 |
| Pentlandite | | 0.61 | 39.65 | 25.84 | 4.39 | 30.13 | | | 100 |
| Pyrite | | 0.034 | 61.64 | 38.36 | | | | | 100 |
| Sphalerite** | | 0.0004 | 36.39 | 0.00 | | | | 63.61 | 100 |

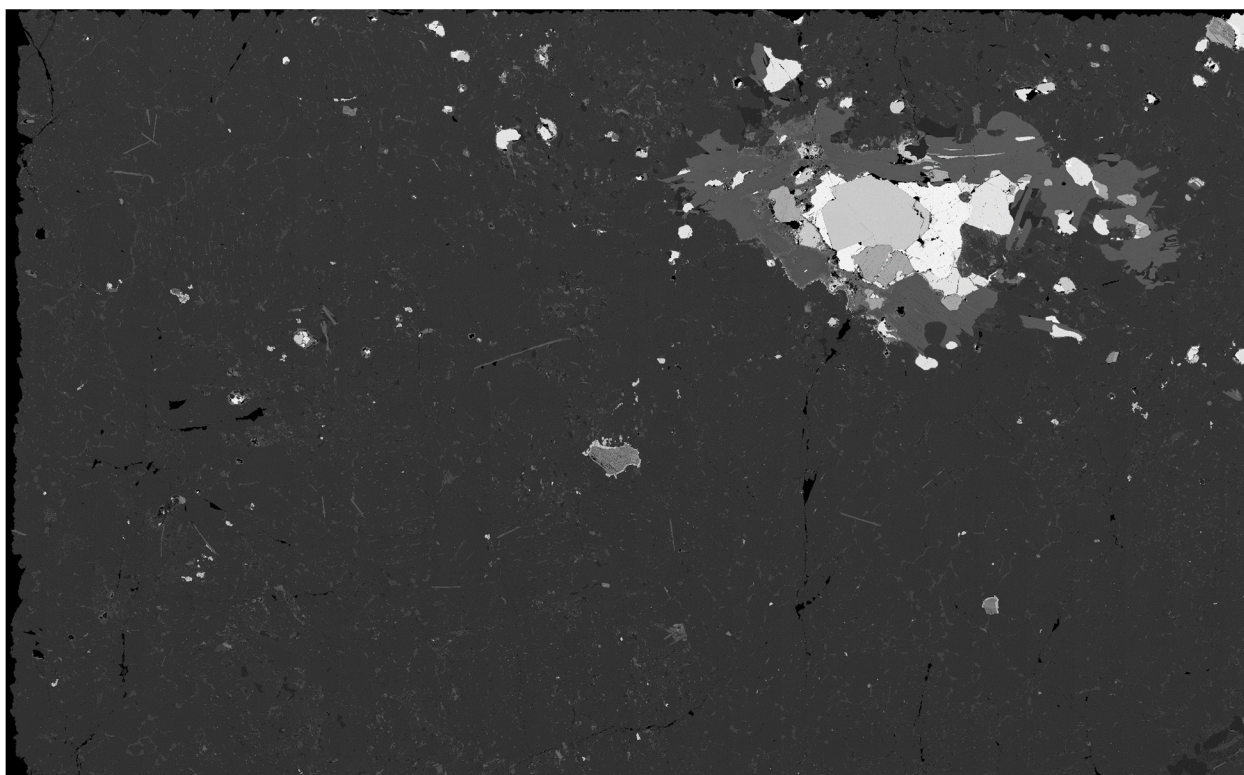
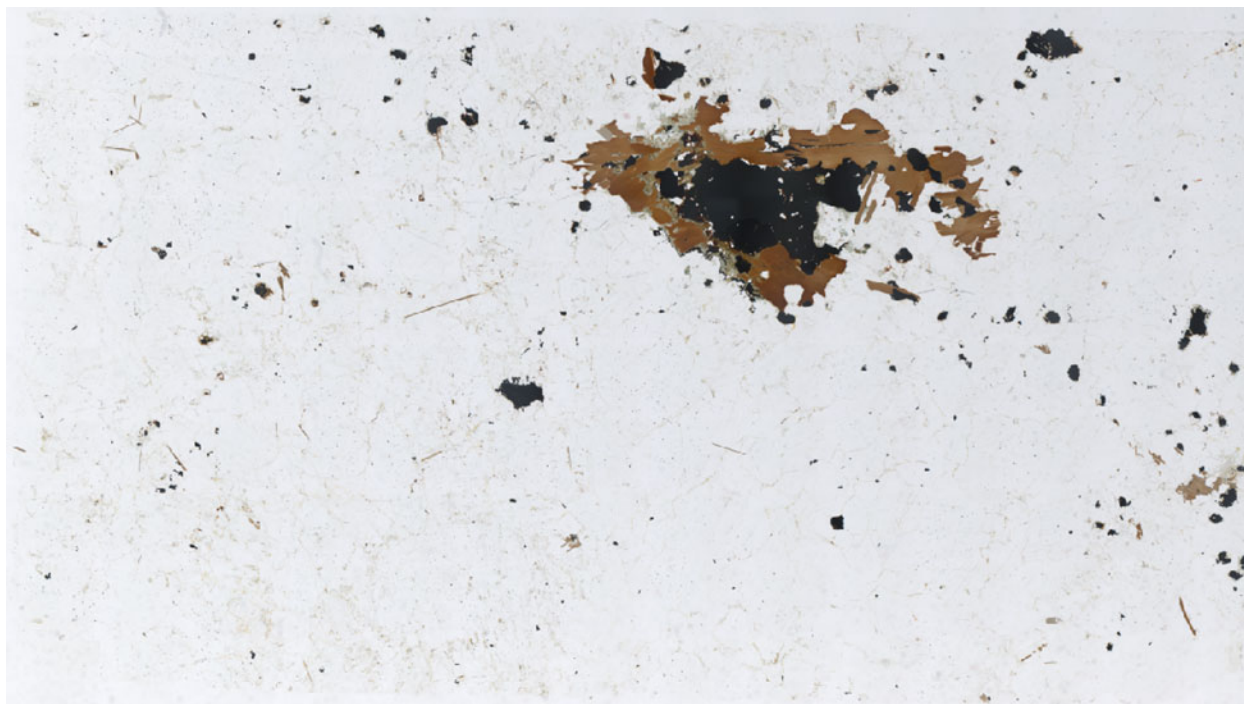
*Chloritized

**Insufficient counts

141890007 (1418-1): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

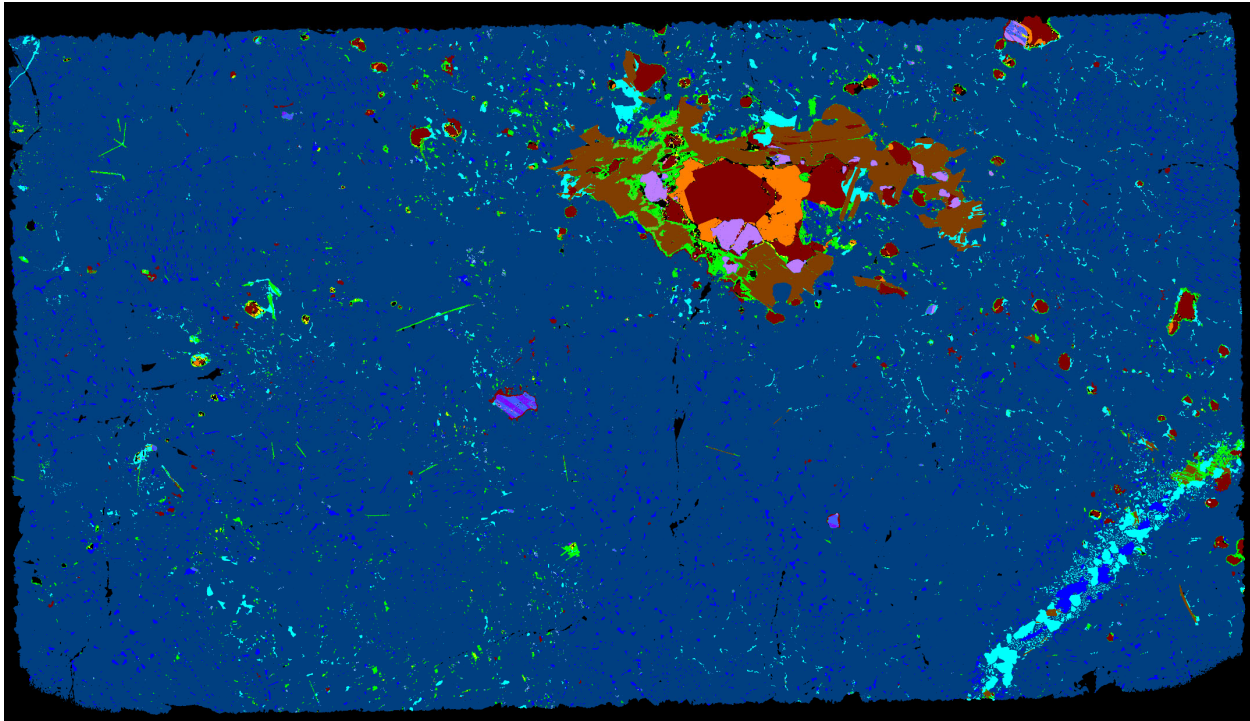
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890012 (1418-2)



141890012 (1418-2): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



| Mineral | Color | % | F | Cl | CO ₂ | Na ₂ O | MgO | Al ₂ O ₃ | SiO ₂ | P ₂ O ₅ | SO ₃ | K ₂ O | CaO | TiO ₂ | V ₂ O ₅ | MnO | FeO | NiO | SrO | ZrO ₂ | Nb ₂ O ₅ | BaO | HfO ₂ | Total |
|-------------|-------|-------|------|------|-----------------|-------------------|-------|--------------------------------|------------------|-------------------------------|-----------------|------------------|-------|------------------|-------------------------------|------|-------|------|------|------------------|--------------------------------|-----|------------------|-------|
| Plagioclase | | 88.66 | | | | 5.58 | | 28.28 | 56.01 | | | 0.40 | 9.45 | | | | 0.29 | | | | | | | 100 |
| Biotite | | 2.59 | | 0.14 | | | 11.83 | 16.44 | 36.61 | | | 9.78 | | 4.44 | | | 19.99 | | | | | | 0.77 | 100 |
| Feldspar-K | | 2.18 | | | 0.63 | | | 19.51 | 62.92 | | | 15.36 | 0.10 | | | | | | | | | | 1.49 | 100 |
| Quartz | | 1.69 | | | | | | | 100 | | | | | | | | | | | | | | | 100 |
| Chamosite | | 1.48 | | | | | 4.62 | 21.98 | 31.87 | | | 0.62 | 0.46 | 0.64 | | | 39.81 | | | | | | | 100 |
| Ilmenite | | 0.32 | | | | | 0.49 | 0.58 | 0.51 | | | | | 46.68 | | 0.56 | 51.17 | | | | | | | 100 |
| Oxide-FeTi* | | 0.16 | | | | | 2.28 | 8.97 | 10.97 | | | | | 32.13 | 0.56 | 1.01 | 44.08 | | | | | | | 100 |
| Albite | | 0.13 | | | | 7.66 | | | 18.30 | | | 0.08 | 2.62 | | | | | | | | | | | 100 |
| Oxide-Fe | | 0.094 | | | | | | 5.65 | 7.78 | | | | | | | | 84.74 | 1.82 | | | | | | 100 |
| Epidote | | 0.064 | | | | | 0.81 | 21.20 | 36.21 | | | | 20.08 | 3.96 | | | 17.73 | | | | | | | 100 |
| Anorthite | | 0.061 | | | | 2.63 | | 33.26 | 47.84 | | | 0.22 | 16.05 | | | | | | | | | | | 100 |
| Rutile | | 0.036 | | | | | 1.17 | 5.14 | 6.14 | | | | | 69.49 | | | 18.06 | | | | 0.00 | | | 100 |
| Barite | | 0.012 | | | | | | | | | 32.46 | | | | | | 1.32 | | 0.00 | | | | 66.22 | 100 |
| Muscovite | | 0.007 | | | | | 0.00 | 38.78 | 46.00 | | | 11.76 | | | | | 3.45 | | | | | | | 100 |
| Apatite | | 0.004 | 0.00 | 0.68 | | | | | | 40.32 | | | | 59.00 | | | | | | | | | | 100 |
| Calcite | | 0.001 | | | 41.27 | | 0.00 | | | | | | | | | | 0.00 | | | | | | | 100 |
| Zircon | | 0.002 | | | | | | | 35.16 | | | | | | | | 0.00 | | | | 64.84 | | 0.00 | 100 |

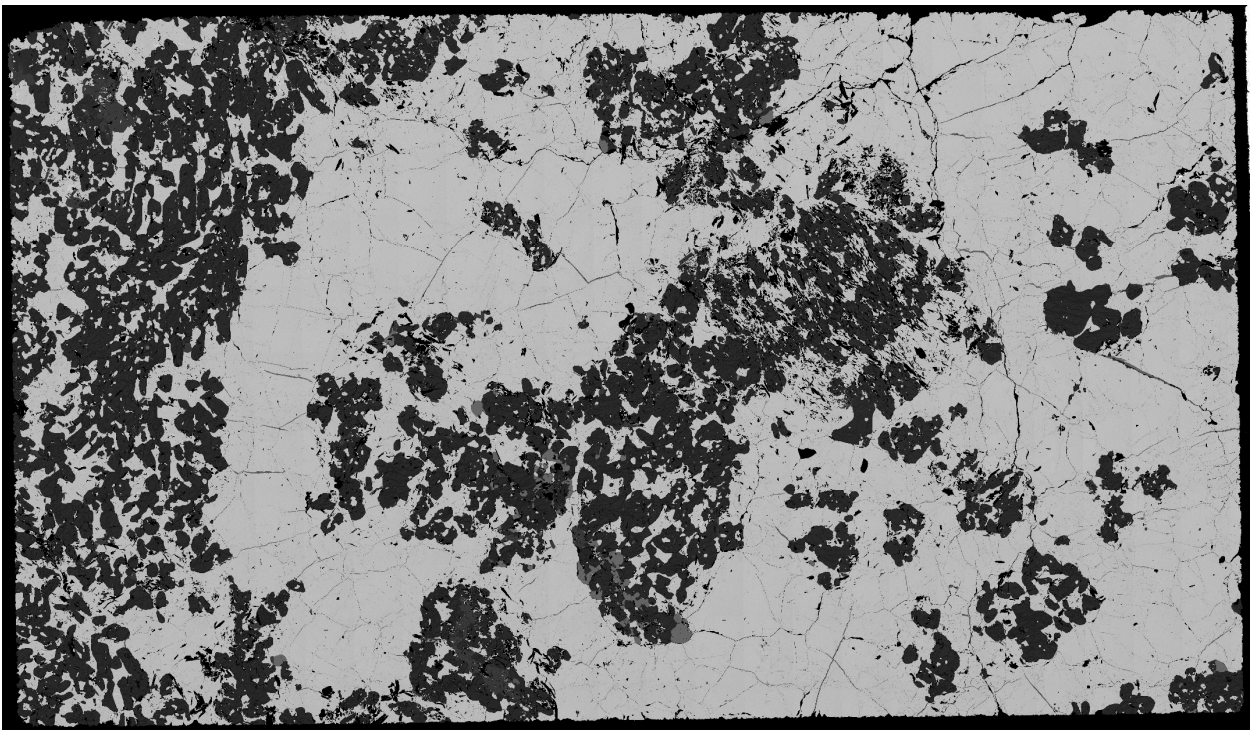
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|------|-------|-------|------|-------|-------|-------|
| Chalcopyrite | | 0.51 | 33.69 | 31.66 | | | 34.65 | 100 |
| Pentlandite | | 0.01 | 36.14 | 28.93 | 3.16 | 31.77 | | 100 |
| Pyrrhotite | | 2.00 | 45.03 | 54.48 | | 0.49 | | 100 |

*Mixed signal with ilmenite and Rutile

141890012 (1418-2): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

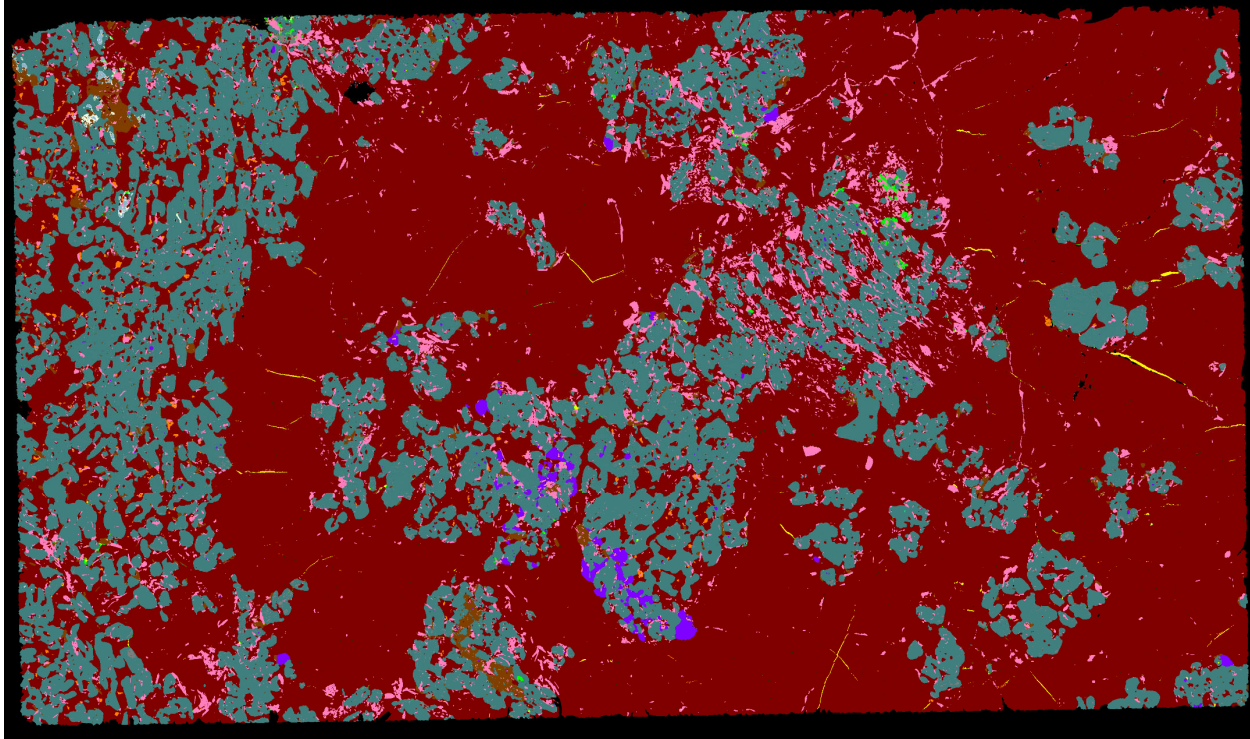
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890013 (1418-12)



141890013 (1418-12): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890013 1418-12

| Mineral | Color | % | F | Cl | Na2O | MgO | Al2O3 | SiO2 | P2O5 | K2O | CaO | TiO2 | V2O5 | Cr2O3 | MnO | FeO | ZrO2 | BaO | HfO2 | Total |
|-------------|-------|--------|------|------|------|-------|-------|-------|-------|------|-------|-------|------|-------|------|-------|-------|------|------|-------|
| Sapphirine | | 26.26 | | | | 17.09 | 60.87 | 14.87 | | | | 0.09 | | 0.33 | | 6.74 | | | | 100 |
| Biotite | | 1.22 | | 0.41 | | 19.82 | 19.03 | 39.06 | | 8.87 | | 2.10 | 0.67 | 0.15 | | 9.16 | | 0.73 | | 100 |
| Corundum | | 0.61 | | | | | 93.36 | | | | | | 0.38 | 0.29 | | 5.97 | | | | 100 |
| Rutile | | 0.48 | | | | | 0.19 | | | | | 99.63 | | | | 0.19 | | | | 100 |
| Oxide-Fe | | 0.14 | | | | 3.23 | 1.56 | 1.32 | | | | | | | 1.77 | 92.13 | | | | 100 |
| Chamosite | | 0.11 | | | | 5.82 | 32.84 | 24.06 | | | | | | | | 37.28 | | | | 100 |
| Anorthite | | 0.04 | | | 3.93 | | 31.55 | 51.22 | | 0.11 | 12.36 | | | | | 0.83 | | | | 100 |
| Clay | | 0.04 | | | 1.60 | 2.24 | 36.35 | 46.35 | | 0.89 | 6.19 | | | | | 6.38 | | | | 100 |
| Clinocllore | | 0.004 | | | | 16.93 | 35.29 | 29.64 | | | | | | | | 18.14 | | | | 100 |
| Apatite | | 0.003 | 0.00 | 3.35 | | | | | 38.92 | | 57.73 | | | | | | | | | 100 |
| Zoisite | | 0.002 | | | | | 35.81 | 44.70 | | | 17.29 | | | | | 2.19 | | | | 100 |
| Spinel-Fe | | 0.001 | | | | 19.23 | 66.23 | | | | | | | | | 14.54 | | | | 100 |
| Zircon* | | 0.0005 | | | | | | 34.76 | | | | | | | | 0.00 | 65.24 | | 0.00 | 100 |

| Mineral | Color | % | C | S | Fe | Co | Ni | Cu | Mo | Total |
|--------------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|
| Pyrrhotite | | 66.38 | | 53.44 | 46.28 | | 0.28 | | | 100 |
| Graphite** | | 4.38 | 100 | | | | | | | 100 |
| Chalcopyrite | | 0.22 | | 34.12 | 31.88 | | | 34.00 | | 100 |
| Pentlandite | | 0.10 | | 41.26 | 24.43 | 11.87 | 22.43 | | | 100 |
| Molybdenite | | 0.003 | | 34.40 | | | | | 65.60 | 100 |

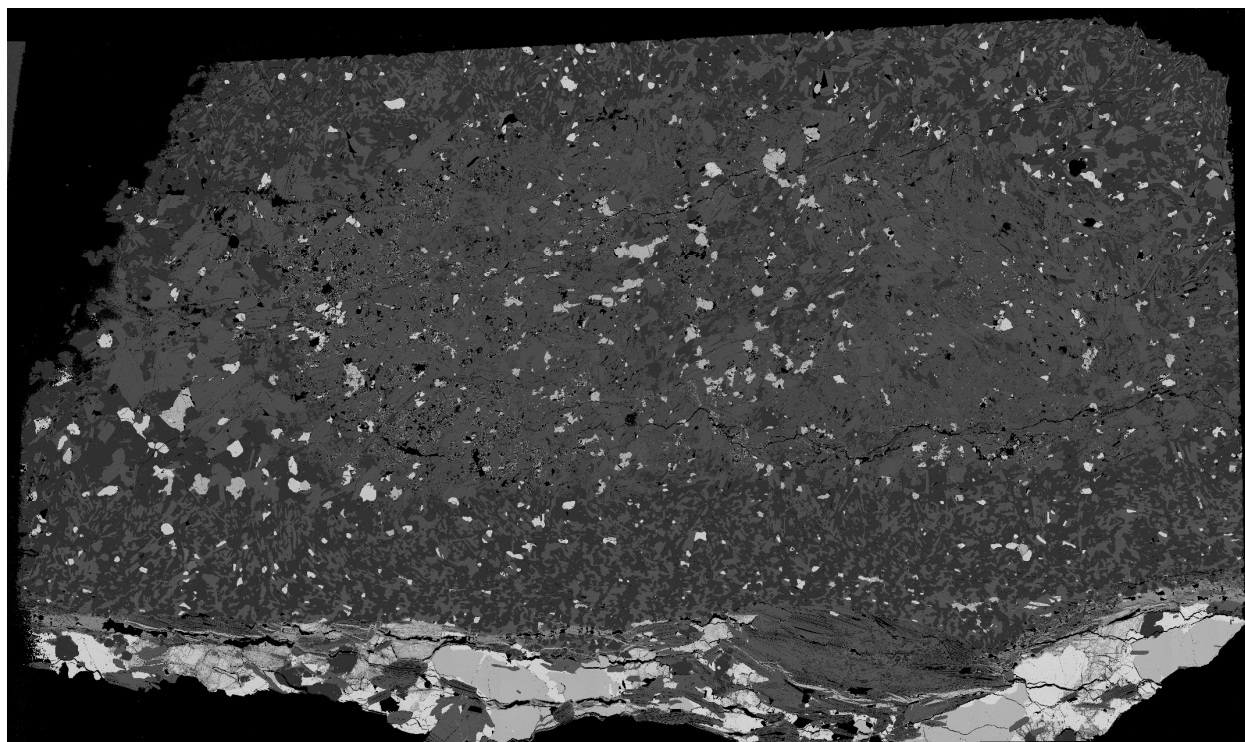
*Insufficient counts

**Mixed signal with voids (glass)

141890013 (1418-12): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

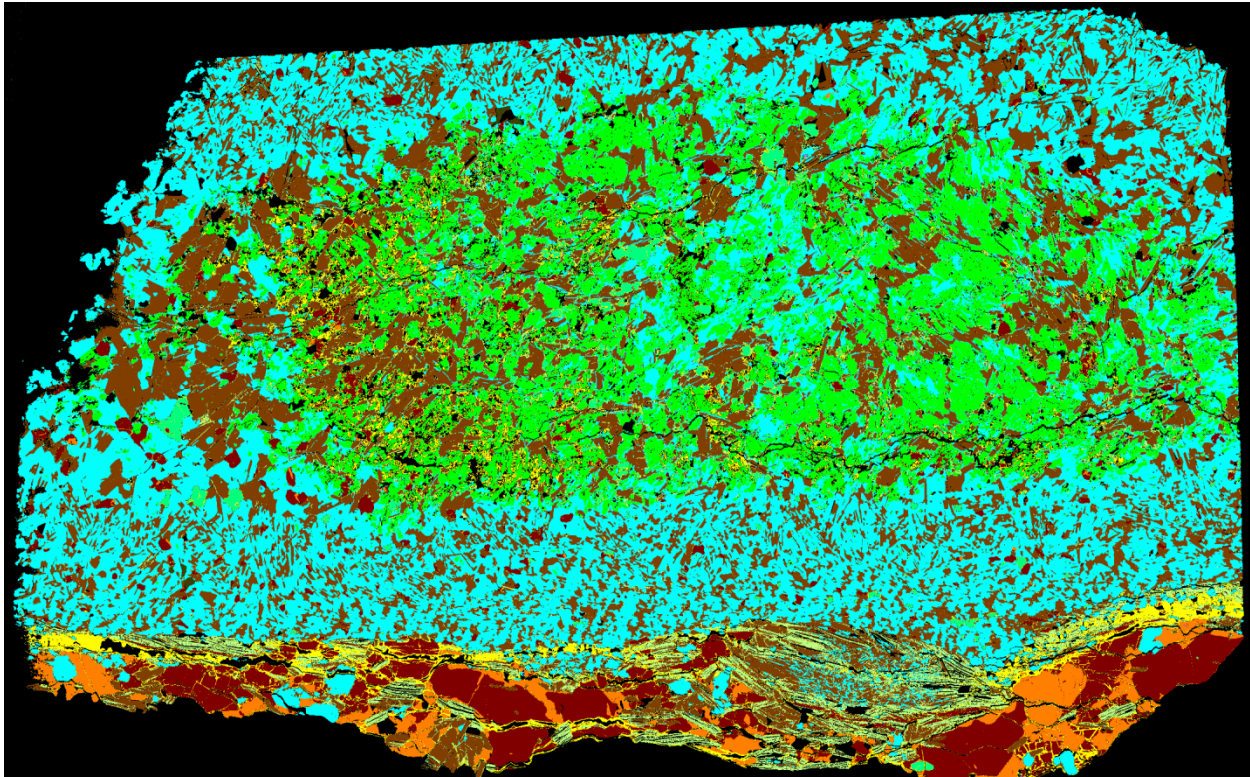
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890014 (1418-3)



141890013 (1418-12): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890014 1418-3

| Mineral | Color | % | F | Cl | MgO | Al ₂ O ₃ | SiO ₂ | P ₂ O ₅ | K ₂ O | CaO | TiO ₂ | Cr ₂ O ₃ | MnO | FeO | Y ₂ O ₃ | ZrO ₂ | Gd ₂ O ₃ | Dy ₂ O ₃ | HfO ₂ | Total | |
|--------------|-------|--------|------|------|-------|--------------------------------|------------------|-------------------------------|------------------|-------|------------------|--------------------------------|------|-------|-------------------------------|------------------|--------------------------------|--------------------------------|------------------|-------|-----|
| Quartz | | 37.36 | | | | | 100 | | | | | | | | | | | | | | 100 |
| Biotite | | 25.79 | | 0.33 | 17.02 | 14.97 | 40.31 | | 9.21 | | 2.73 | | | 15.43 | | | | | | | 100 |
| Actinolite | | 17.58 | | | 19.07 | 1.90 | 57.37 | | | 12.03 | | | 0.42 | 9.21 | | | | | | | 100 |
| Oxide-Fe | | 4.89 | | | 1.04 | 6.00 | 8.46 | | | | | | | 84.50 | | | | | | | 100 |
| Clinocllore* | | 4.76 | | | 15.21 | 17.84 | 40.71 | | | | | | | 26.24 | | | | | | | 100 |
| Oxide-FeCr | | 1.28 | | | | 0.57 | 0.53 | | | | 0.29 | 3.72 | | 94.89 | | | | | | | 100 |
| Apatite | | 0.048 | 0.00 | 0.58 | | | | 39.75 | | 56.41 | | | | | | | | | | | 100 |
| Xenotime | | 0.006 | | | | | | 35.80 | | | | | | | 51.18 | | 6.17 | 6.85 | | | 100 |
| Zircon | | 0.005 | | | | | 33.92 | | | | | | | 0.69 | | 65.38 | | | 0.00 | | 100 |
| Ilmenite | | 0.005 | | | | | | | | | 51.87 | | 1.78 | 46.35 | | | | | | | 100 |
| Muscovite | | 0.0003 | | | 3.64 | 29.95 | 53.68 | | 12.73 | | 0.00 | | | 0.00 | | | | | | | 100 |
| Rutile | | 0.0003 | | | | | | | | | 100 | | | 0.00 | | | | | | | 100 |

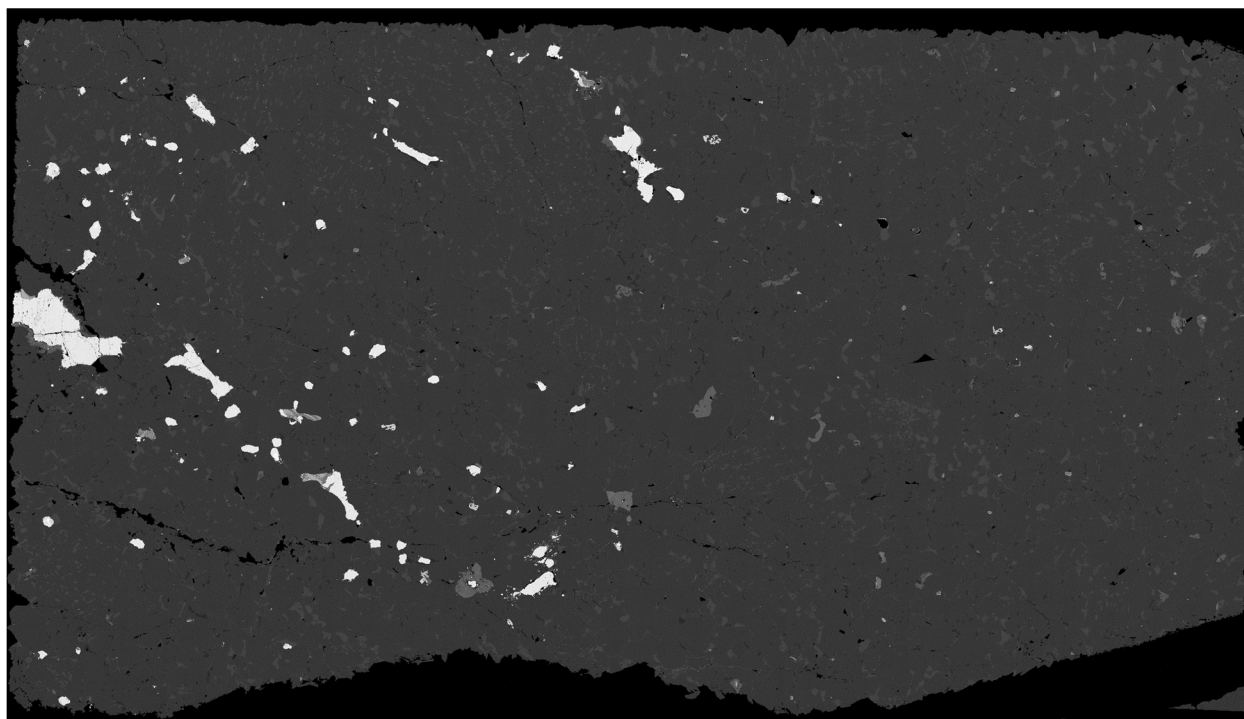
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Zn | Total |
|--------------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| Pyrrhotite | | 6.26 | 46.58 | 52.76 | | 0.66 | | | 100 |
| Chalcopyrite | | 1.99 | 34.39 | 31.29 | | | 34.32 | | 100 |
| Pentlandite | | 0.039 | 42.54 | 24.69 | 2.24 | 30.52 | | | 100 |
| Sphalerite | | 0.004 | 32.57 | 8.15 | | | | 59.27 | 100 |

*Not stoichiometric

141890013 (1418-12): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

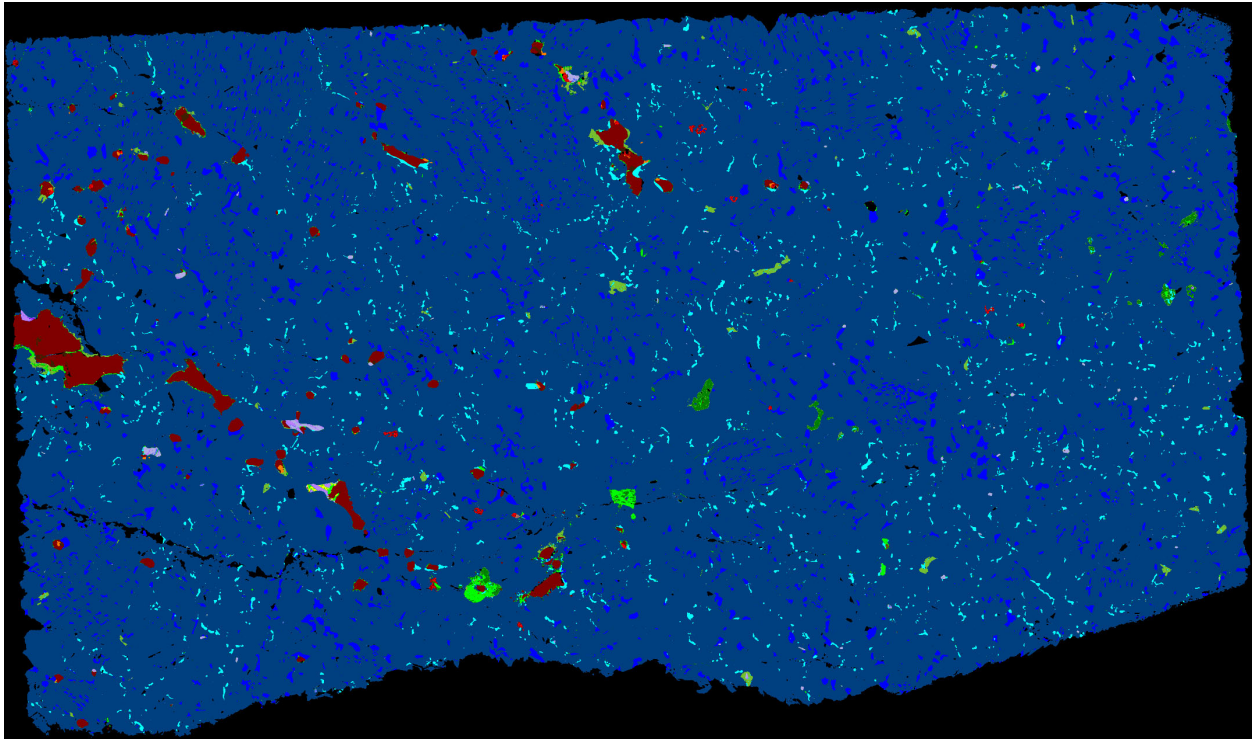
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890026 (1418-4)



141890026 (1418-4): *Optical (natural light) and backscattered electron image mosaic.*

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890026 1418-4

| Mineral | Color | % | F | Cl | Na2O | MgO | Al2O3 | SiO2 | P2O5 | K2O | CaO | TiO2 | Cr2O3 | MnO | FeO | BaO | Total |
|-------------|-------|--------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|
| Plagioclase | | 91.85 | | | 5.47 | | 28.51 | 55.60 | | 0.28 | 9.91 | | | | 0.22 | | 100 |
| Feldspar-K | | 4.14 | | | 0.60 | | 19.24 | 63.42 | | 15.73 | 0.05 | | | | | 0.95 | 100 |
| Quartz | | 1.36 | | | | | | 100 | | | | | | | | | 100 |
| Epidote | | 0.31 | | | | 0.55 | 24.72 | 39.95 | | 0.21 | 21.25 | 0.27 | | 0.22 | 12.84 | | 100 |
| Pargasite | | 0.29 | | 0.16 | 1.43 | 4.65 | 18.28 | 40.34 | | 1.20 | 8.40 | 1.13 | | 0.39 | 24.02 | | 100 |
| Chamosite | | 0.21 | | | | 3.88 | 22.81 | 32.64 | | | | | | | 40.67 | | 100 |
| Titanite | | 0.11 | | | | | 8.77 | 29.03 | | | 22.82 | 29.25 | | | 10.14 | | 100 |
| Anorthite | | 0.11 | | | 4.79 | | 29.23 | 52.70 | | 0.00 | 13.28 | | | | | | 100 |
| Ilmenite | | 0.030 | | | | | 0.64 | 0.56 | | | | 50.17 | | 2.62 | 46.01 | | 100 |
| Oxide-FeTi* | | 0.014 | | | | | 6.69 | 8.00 | | | | 31.77 | | 1.64 | 51.90 | | 100 |
| Oxide-Fe | | 0.010 | | | | | 2.55 | 2.16 | | | | | 1.12 | | 94.16 | | 100 |
| Muscovite | | 0.005 | | | | 0.00 | 36.34 | 45.93 | | 11.53 | | | | | 6.20 | | 100 |
| Apatite | | 0.004 | 5.28 | 0.00 | | | | | 37.84 | | 56.88 | | | | | | 100 |
| Biotite | | 0.002 | | | | 9.17 | 18.72 | 33.97 | | 7.02 | | 3.29 | | | 27.83 | | 100 |
| Rutile** | | 0.001 | | | | | 3.06 | 11.86 | | | 11.31 | 64.01 | | | 9.75 | | 100 |
| Clay | | 0.0003 | | | | | 45.64 | 54.36 | | | | | | | 0.00 | | 100 |

| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 1.44 | 38.26 | 61.04 | | 0.70 | | 100 |
| Pentlandite | | 0.07 | 38.05 | 32.29 | 2.49 | 27.17 | | 100 |
| Pyrite | | 0.04 | 52.82 | 47.18 | | | | 100 |
| Chalcopyrite | | 0.03 | 33.69 | 31.89 | | | 34.42 | 100 |

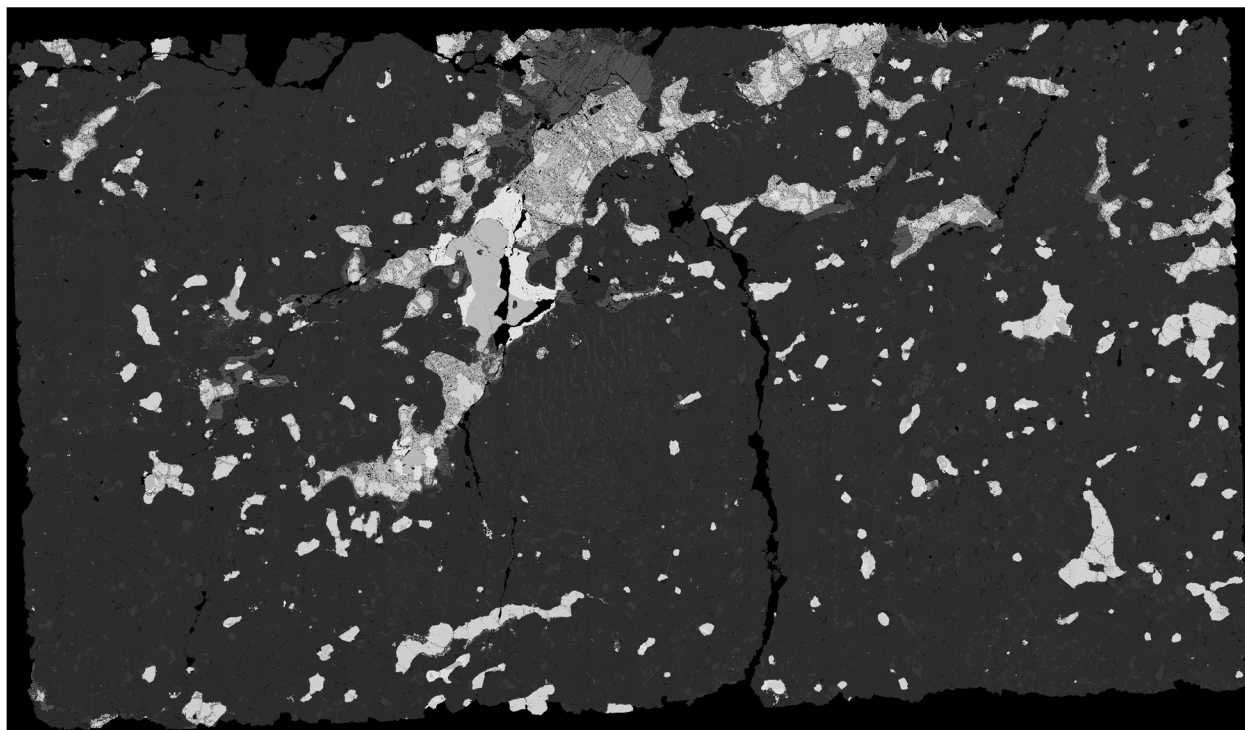
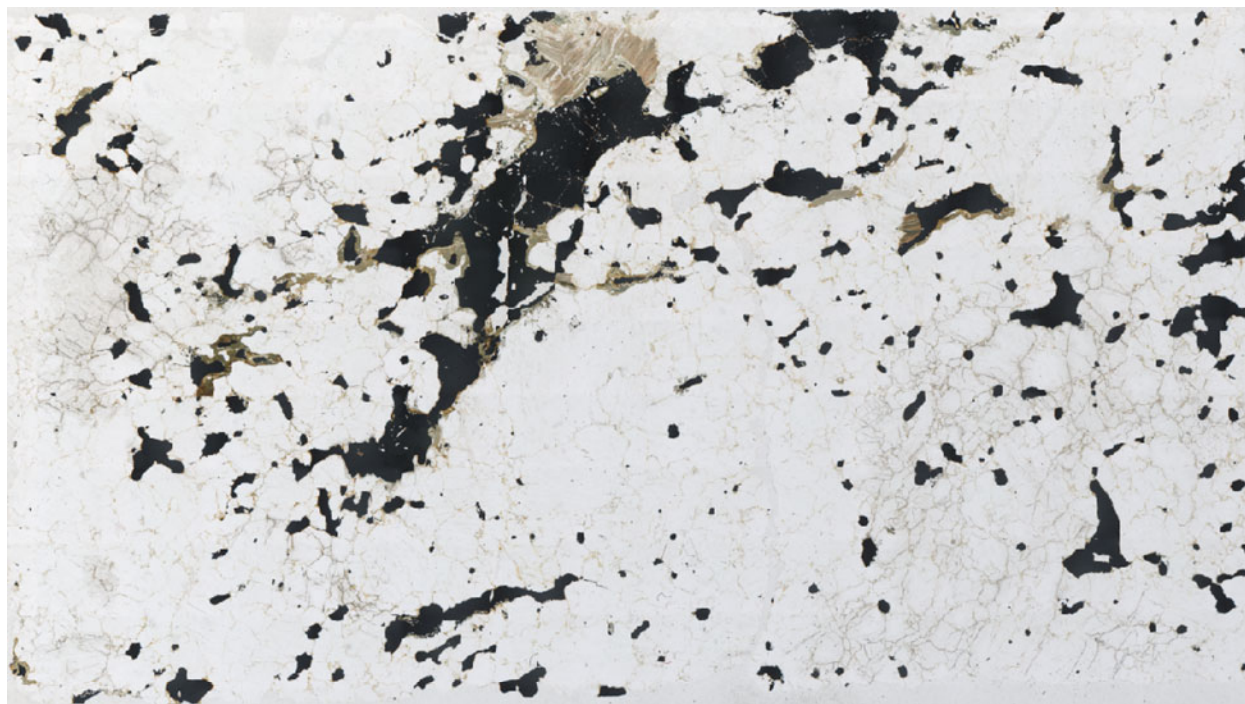
*Mixed signal between Oxide-FeTi, Ilmenite and Titanite

**Mixed signal with Titanite (rutile contained in the titanite)

141890026 (1418-4): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

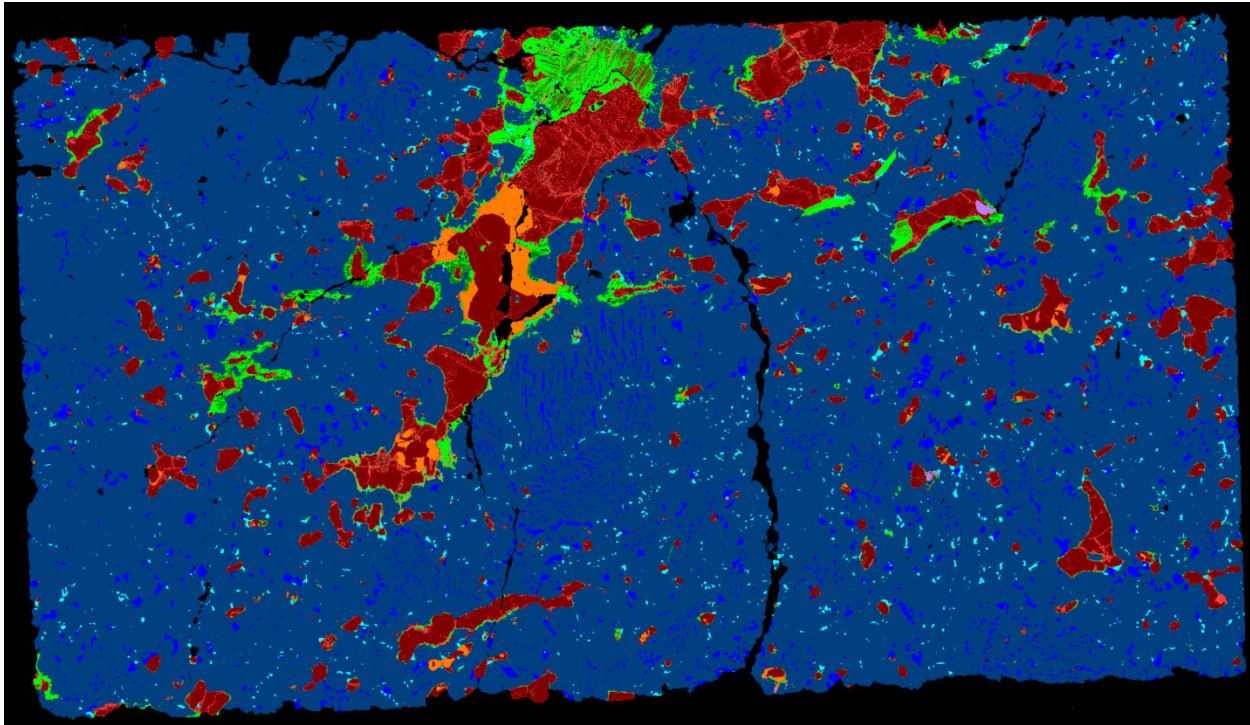
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890027 (1418-5)



141890027 (1418-5): *Optical (natural light) and backscattered electron image mosaic.*

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890027 1418-5

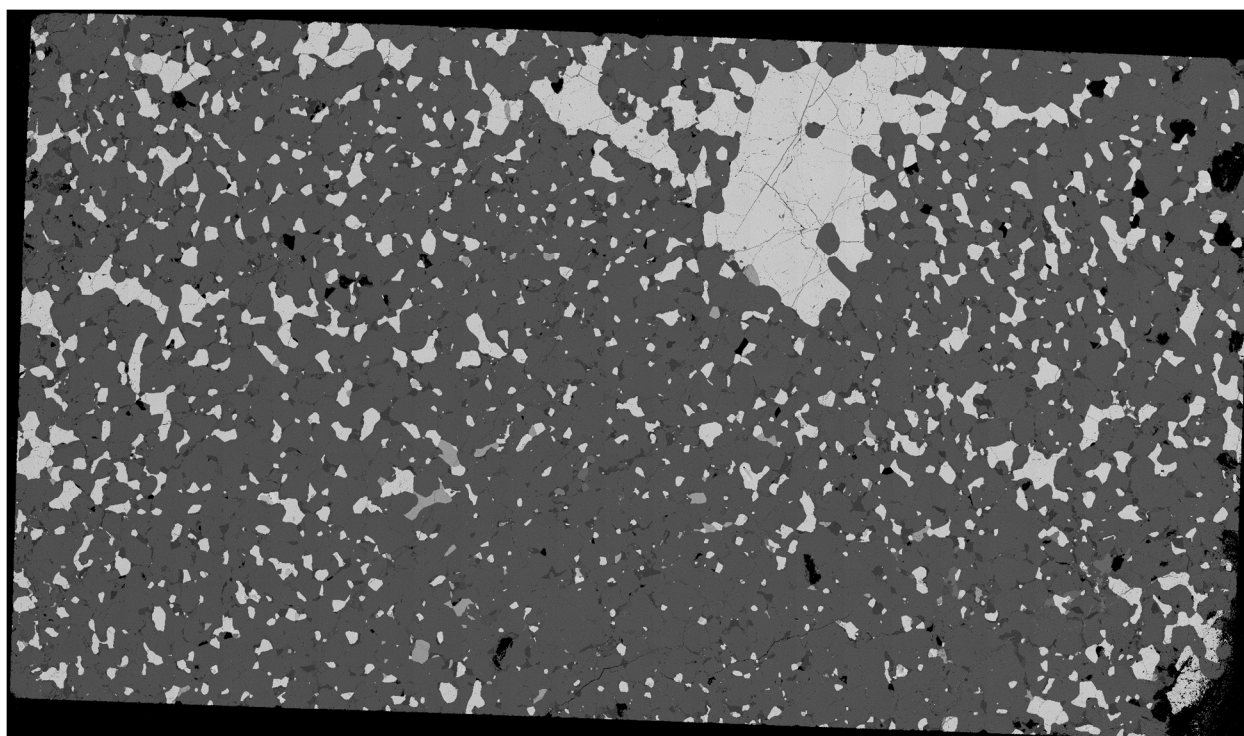
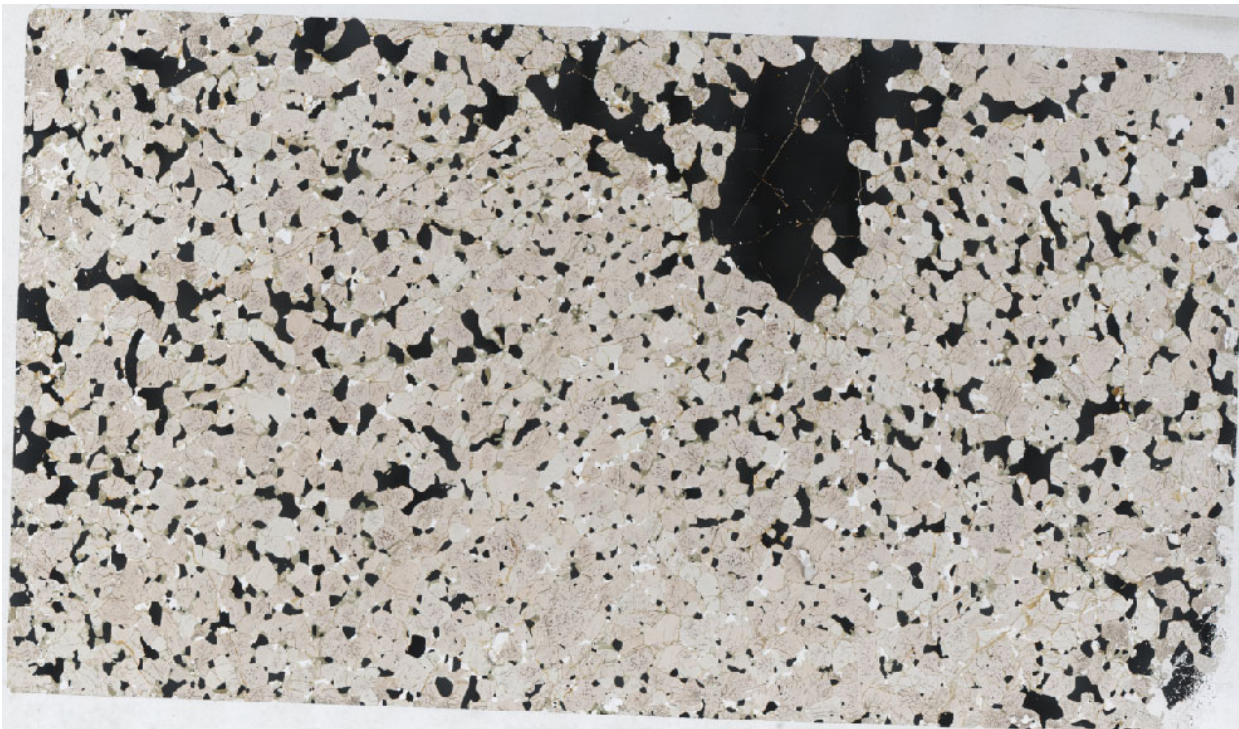
| Mineral | Color | % | F | Cl | Na2O | MgO | Al2O3 | SiO2 | P2O5 | SO3 | K2O | CaO | TiO2 | MnO | FeO | NiO | BaO | Total |
|----------------------|------------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| Plagioclase | Blue | 79.13 | | | 5.50 | | 28.69 | 55.56 | | | 0.35 | 9.69 | | | 0.21 | | | 100 |
| Feldspar-K | Red | 3.63 | | | 0.66 | | 19.35 | 63.56 | | | 15.50 | 0.02 | | | | | 0.91 | 100 |
| Pyrrhotite (altered) | Red | 2.32 | | | | | | | | 59.27 | | | | | 33.01 | 7.72 | | 100 |
| Chamosite | Green | 2.22 | | | | 4.10 | 23.15 | 35.34 | | | 1.15 | 1.57 | 1.43 | | 33.25 | | | 100 |
| Quartz | Cyan | 1.18 | | | | | | 100 | | | | | | | | | | 100 |
| Hornblende | Green | 0.49 | | | 0.61 | 4.93 | 17.86 | 39.06 | | | 1.75 | 11.19 | 1.68 | 0.55 | 22.38 | | | 100 |
| Epidote | Green | 0.39 | | | | | 25.71 | 40.64 | | | | 22.60 | | | 11.06 | | | 100 |
| Biotite | Brown | 0.12 | | 0.17 | | 8.06 | 18.78 | 36.02 | | | 7.43 | 0.63 | 3.65 | 0.55 | 24.71 | | | 100 |
| Albite | Light Blue | 0.054 | | | 7.97 | | 22.98 | 64.59 | | | 0.29 | 4.17 | | | | | | 100 |
| Ilmenite-Mn | Purple | 0.036 | | | | | 0.31 | 0.40 | | | | | 49.60 | 6.69 | 43.00 | | | 100 |
| Apatite | Dark Green | 0.006 | 3.76 | 0.00 | | | | | 39.41 | | | 56.82 | | | | | | 100 |

| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|--------|-------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | Red | 9.55 | 43.29 | 56.71 | | | | 100 |
| Chalcopyrite | Orange | 0.69 | 33.94 | 31.45 | | | 34.61 | 100 |
| Pentlandite | Brown | 0.16 | 39.54 | 24.27 | 2.88 | 33.31 | | 100 |
| Pyrite | Red | 0.002 | 56.70 | 43.30 | | | | 100 |

141890027 (1418-5): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

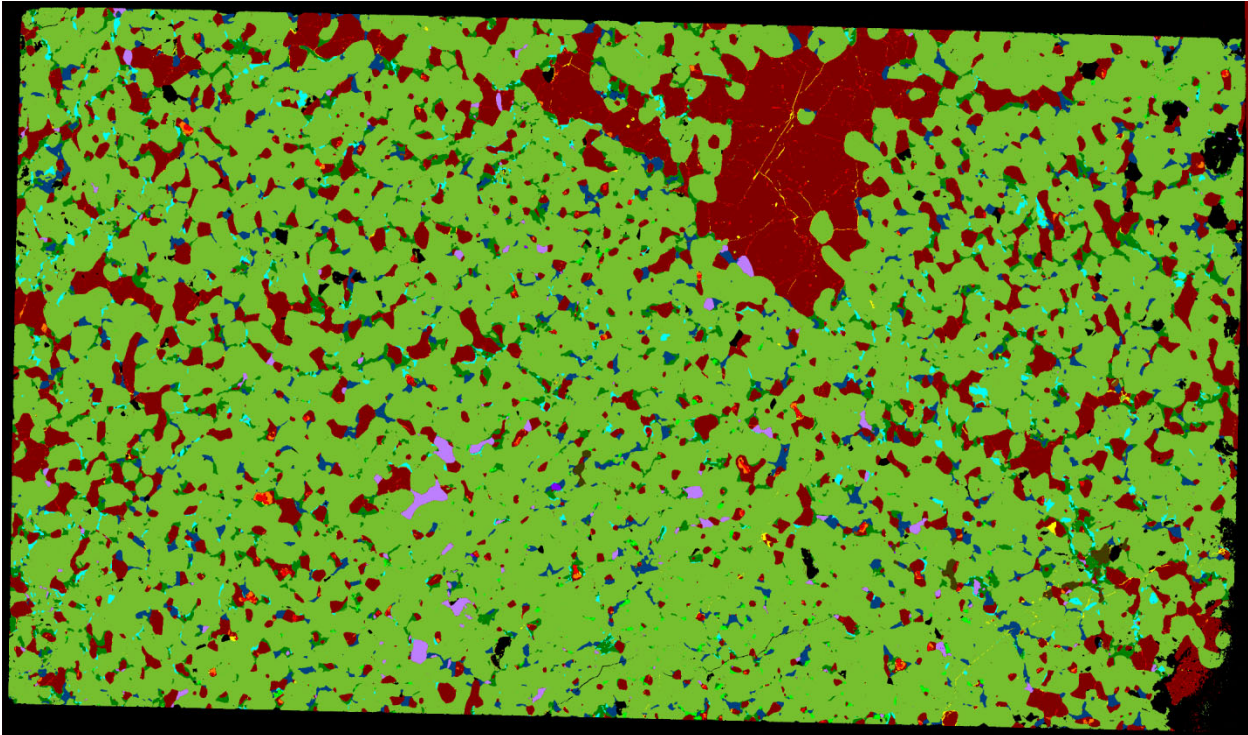
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890028 (1418-6)



141890028 (1418-6): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



| Mineral | Color | % | F | Cl | CO2 | Na2O | MgO | Al2O3 | SiO2 | P2O5 | K2O | CaO | TiO2 | MnO | FeO | ZrO2 | Nb2O5 | Total |
|-----------------------|-------|---------|------|------|-------|------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|
| Enstatite-Ferrosilite | | 71.57 | | | | | 23.54 | 1.67 | 53.34 | | | 0.47 | 0.11 | 0.50 | 20.37 | | | 100 |
| Hornblende | | 4.44 | | | | 1.03 | 15.37 | 10.74 | 47.92 | | 0.65 | 11.69 | 1.29 | | 11.31 | | | 100 |
| Plagioclase | | 2.98 | | | | 4.38 | | 30.72 | 52.38 | | 0.11 | 12.01 | | | 0.41 | | | 100 |
| Quartz | | 1.07 | | | | | | | 100 | | | | | | | | | 100 |
| Ilmenite | | 0.63 | | | | | 1.42 | 0.20 | 0.46 | | | | 47.14 | 0.42 | 50.36 | | | 100 |
| Tremolite-Actinolite* | | 0.25 | | | | | 18.34 | 2.68 | 56.06 | | | 15.58 | | | 7.33 | | | 100 |
| Oxide-Fe | | 0.23 | | | | | 3.06 | 0.00 | 1.04 | | | | | 0.99 | 94.92 | | | 100 |
| Apatite | | 0.12 | 2.11 | 1.33 | | | | | | 40.02 | | 56.54 | | | | | | 100 |
| Biotite | | 0.037 | | | | | 19.54 | 16.80 | 40.03 | | 8.41 | 0.42 | 3.37 | | 11.43 | | | 100 |
| Enstatite | | 0.029 | | | | | 28.77 | 1.88 | 64.35 | | | | | | 5.01 | | | 100 |
| Rutile | | 0.012 | | | | | | | | | | | 98.23 | | 1.01 | | 0.76 | 100 |
| Magnesite-Siderite | | 0.006 | | | 48.36 | | 23.32 | | | | | 0.71 | | | 27.61 | | | 100 |
| Diopside** | | 0.001 | | | | | 13.64 | 2.54 | 50.92 | | | 26.44 | 0.00 | 0.00 | 6.45 | | | 100 |
| Zircon*** | | 0.00002 | | | | | | | 26.64 | | | | | | | 73.36 | | 100 |

| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|-------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 17.72 | 38.81 | 60.64 | | 0.55 | | 100 |
| Pyrite | | 0.70 | 56.09 | 43.91 | | | | 100 |
| Chalcopyrite | | 0.15 | 34.26 | 31.51 | | | 34.23 | 100 |
| Pentlandite | | 0.05 | 40.49 | 23.63 | 6.59 | 29.29 | | 100 |

* Mixed signal with Diopside

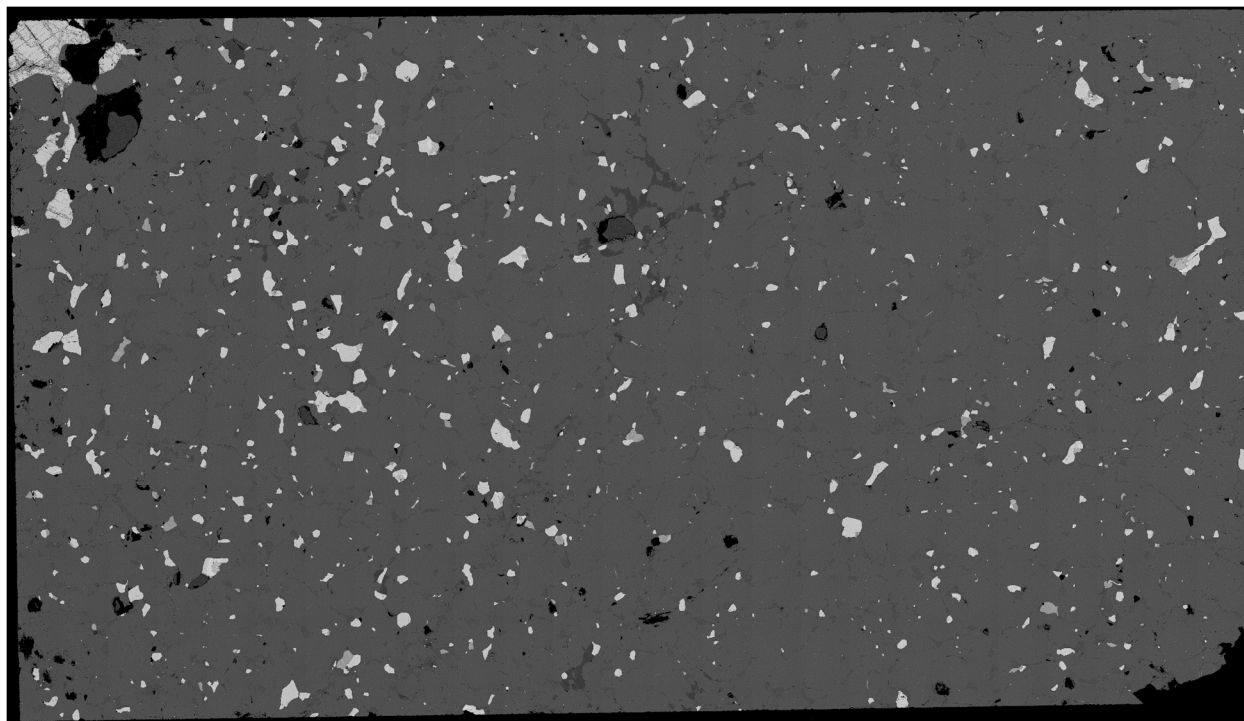
**Amphibolitized

***Insufficient counts

141890028 (1418-6): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

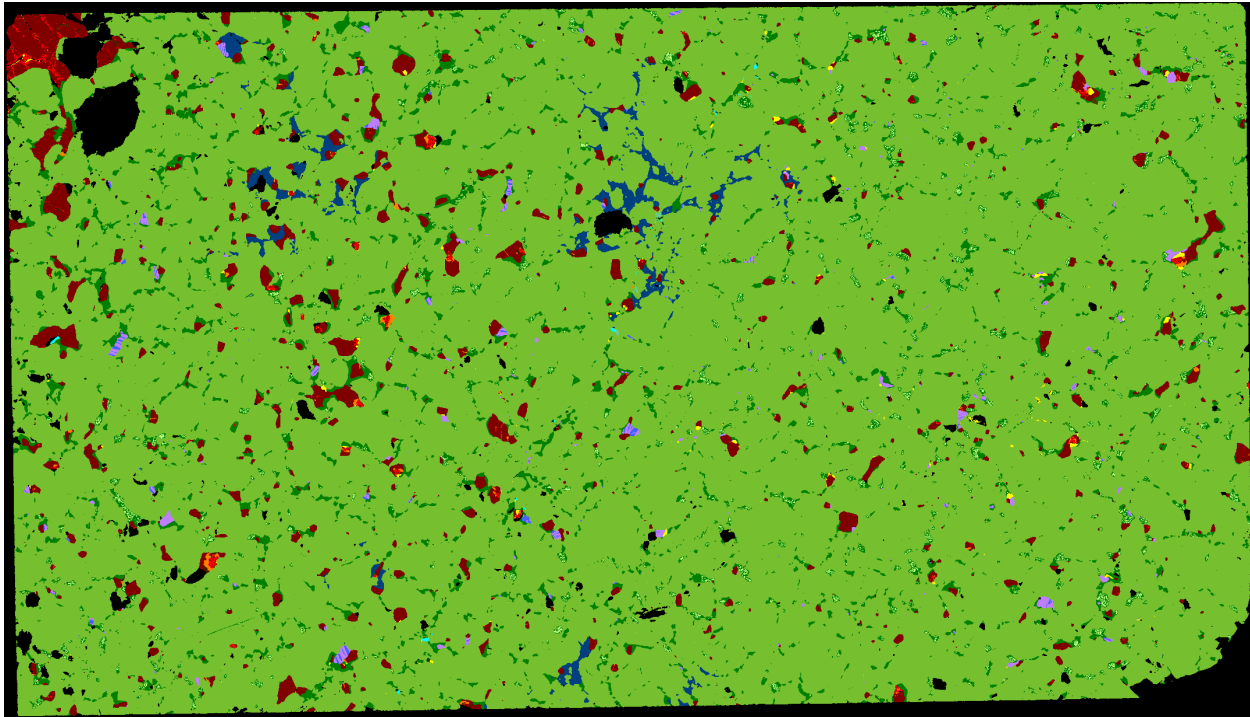
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890032 (1418-7)



141890032 (1418-7): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890032 1418-7

| Mineral | Color | % | F | Cl | CO2 | Na2O | MgO | Al2O3 | SiO2 | P2O5 | K2O | CaO | TiO2 | V2O5 | Cr2O3 | MnO | FeO | ZnO | ZrO2 | Total |
|-----------------------|-------|--------|------|------|-------|------|-------|-------|-------|-------|------|-------|-------|------|-------|------|-------|------|-------|-------|
| Enstatite-Ferrosilite | | 88.61 | | | | | 22.68 | 2.62 | 52.28 | | | 0.48 | 0.10 | | | 0.49 | 21.34 | | | 100 |
| Hornblende | | 5.40 | | | | 0.99 | 15.18 | 9.23 | 49.02 | | | 13.81 | 0.97 | | | | 10.81 | | | 100 |
| Plagioclase | | 0.85 | | | | 2.50 | | 33.70 | 48.03 | | 0.09 | 15.33 | | | | | 0.36 | | | 100 |
| Diopside | | 0.57 | | | | 0.23 | 13.79 | 3.45 | 51.63 | | | 23.46 | 0.39 | 0.00 | 0.00 | 0.18 | 6.87 | | | 100 |
| Ilmenite | | 0.35 | | | | | 1.40 | 0.19 | 0.22 | | | | 45.99 | | | 0.38 | 51.82 | | | 100 |
| Oxide-Fe | | 0.12 | | | | | | 0.63 | 0.39 | | | | | 0.62 | 0.84 | | 97.53 | | | 100 |
| Oxide-FeTi | | 0.095 | | | | | 0.52 | 0.49 | 0.36 | | | | 17.37 | 1.05 | 0.56 | | 79.65 | | | 100 |
| Quartz | | 0.017 | | | | | | | 100 | | | | | | | | | | | 100 |
| Magnesite-Siderite | | 0.016 | | | 50.70 | | 26.10 | | | | | 0.41 | | | | 0.90 | 21.88 | | | 100 |
| Apatite | | 0.009 | 2.43 | 0.29 | | | | | | 40.53 | | 56.75 | | | | | | | | 100 |
| Enstatite | | 0.008 | | | | | 28.24 | 1.61 | 64.21 | | | | | | | | 5.95 | | | 100 |
| Hercynite-Mg* | | 0.0001 | | | | | 8.81 | 64.26 | | | | | | | | | 26.93 | 0.00 | | 100 |
| Zircon* | | 0.0001 | | | | | | | 33.38 | | | | | | | | | | 66.62 | 100 |

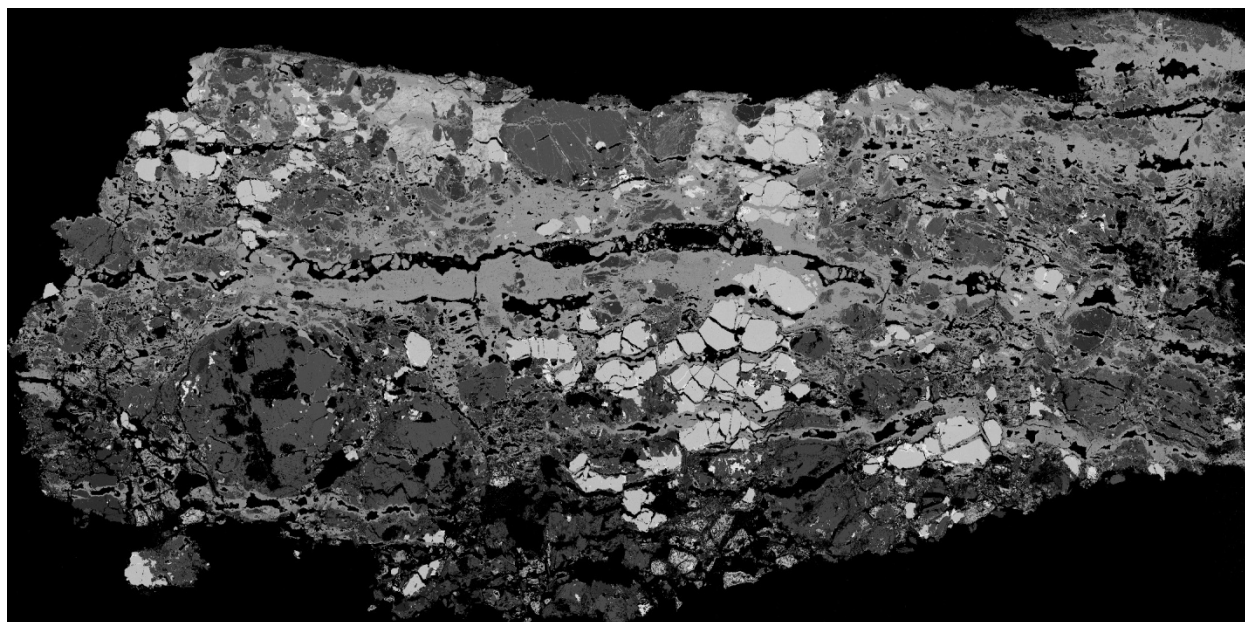
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 3.62 | 39.09 | 60.42 | | 0.49 | | 100 |
| Pyrite | | 0.16 | 48.68 | 51.32 | | | | 100 |
| Chalcopyrite | | 0.09 | 34.29 | 31.48 | | | 34.23 | 100 |
| Pentlandite | | 0.07 | 35.84 | 26.66 | 5.83 | 31.67 | | 100 |

*Insufficient counts

141890032 (1418-7): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

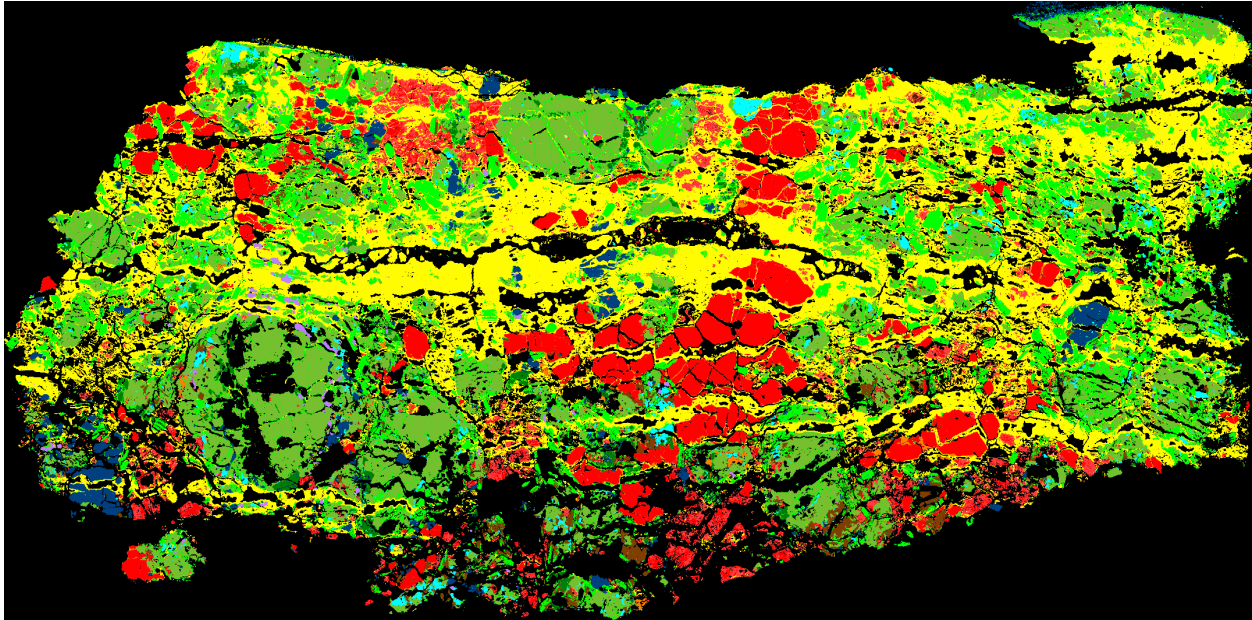
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890033 (1418-8)



141890033 (1418-8): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890033 1418-8

| Mineral | Color | % | F | Cl | Na2O | MgO | Al2O3 | SiO2 | P2O5 | SO3 | K2O | CaO | TiO2 | MnO | FeO | NiO | ZrO2 | BaO | HfO2 | Total |
|----------------------------|-------|--------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|------|-------|
| Oxide-Fe | | 39.58 | | | | | 1.54 | 8.09 | | | | | | | 90.36 | | | | | 100 |
| Chamosite | | 18.06 | | 0.20 | | 13.50 | 9.44 | 34.05 | | | 0.52 | 0.74 | 1.57 | | 38.66 | 1.32 | | | | 100 |
| Enstatite-Fe | | 17.15 | | | | 21.68 | 1.63 | 54.49 | | | | 0.63 | 0.08 | 0.55 | 20.94 | | | | | 100 |
| Pyrrhotite (altered) | | 5.38 | | | | | | | | 61.08 | | | | | 36.74 | 2.19 | | | | 100 |
| Plagioclase | | 3.18 | | | 5.81 | | 28.13 | 55.76 | | | 0.14 | 9.30 | | | 0.86 | | | | | 100 |
| Biotite | | 1.94 | | 0.37 | | 16.33 | 17.11 | 39.36 | | | 7.91 | | 3.64 | | 15.00 | 0.27 | | | | 100 |
| Quartz | | 1.86 | | | | | | 100 | | | | | | | | | | | | 100 |
| Pargasite- Tschermakite | | 1.34 | | 0.26 | 1.10 | 13.57 | 11.81 | 45.49 | | | 0.73 | 11.42 | 1.13 | | 14.49 | | | | | 100 |
| Ilmenite | | 0.55 | | | | 0.54 | 0.20 | 0.17 | | | | | 48.79 | 0.31 | 50.00 | | | | | 100 |
| Diopside | | 0.008 | | | | 17.74 | 2.45 | 55.08 | | | | 16.81 | | | 7.92 | | | | | 100 |
| Zircon | | 0.004 | | | | | | 34.96 | | | | | | | 1.60 | | 63.45 | | 0.00 | 100 |
| Feldspar-K | | 0.003 | | | 1.43 | | 20.27 | 64.05 | | | 14.25 | 0.00 | | | | | | 0.00 | | 100 |
| Rutile | | 0.001 | | | | | | | | | | | 87.31 | | 12.69 | | | | | 100 |
| Aluminosilicate* | | 0.0001 | | | | | 58.48 | 41.52 | | | | | | | | | | | | 100 |
| Apatite* | | 0.0001 | 0.00 | 4.65 | | | | | 40.52 | | | 54.83 | | | | | | | | 100 |
| Titanite* | | 0.0001 | | | | | | 35.85 | | | | 25.91 | 38.24 | | | | | | | 100 |

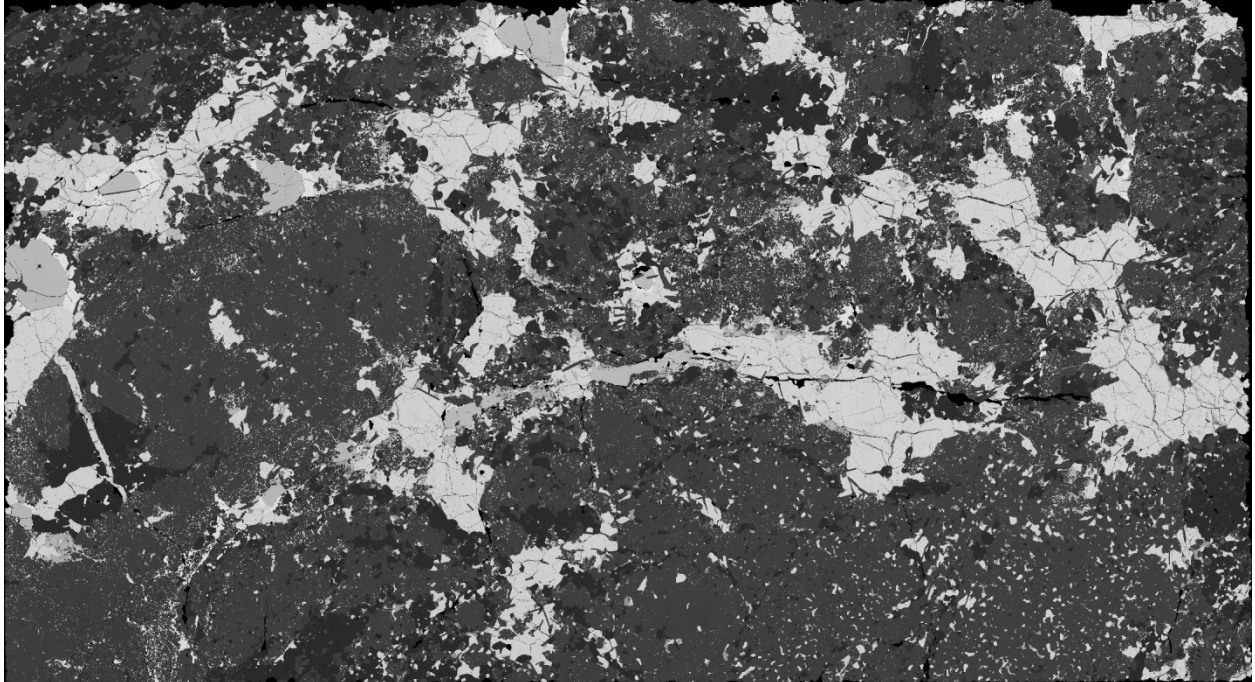
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|-------|-------|-------|------|-------|-------|-------|
| Pyrite | | 10.14 | 52.33 | 47.67 | | | | 100 |
| Chalcopyrite | | 0.64 | 33.57 | 31.46 | | | 34.97 | 100 |
| Pentlandite | | 0.17 | 39.41 | 32.84 | 3.67 | 24.08 | | 100 |

*Insufficient counts

141890033 (1418-8): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

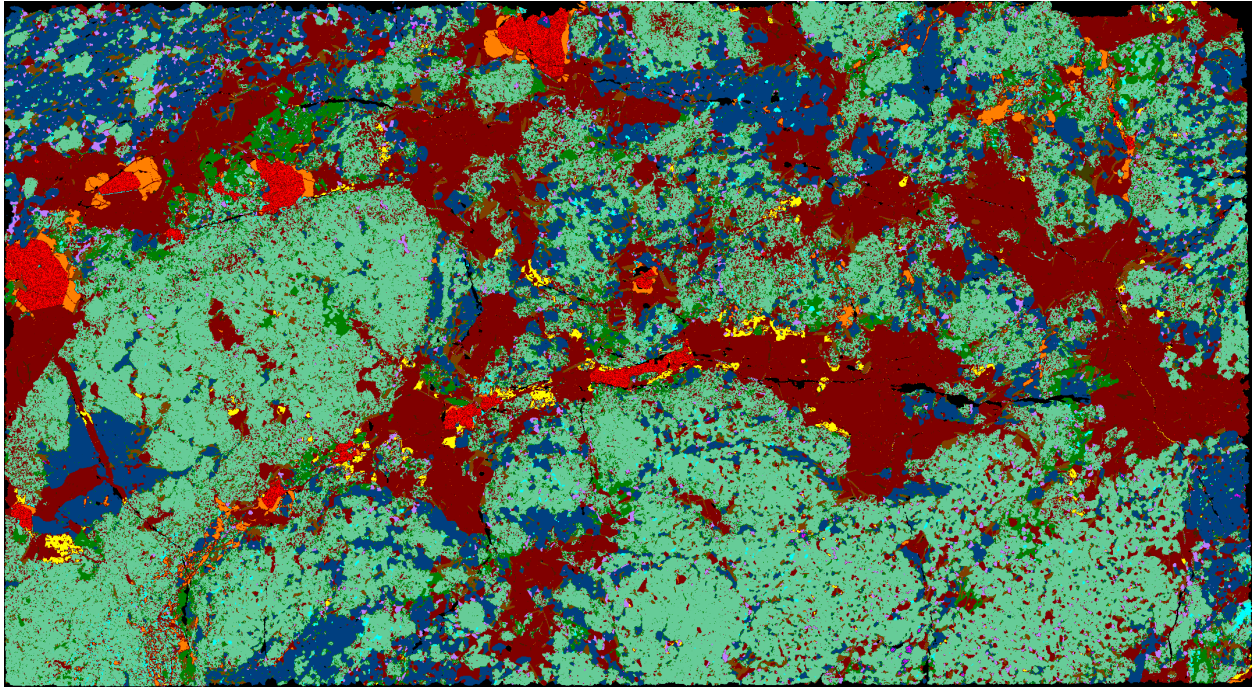
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890037 (1418-9)



141890037 (1418-9): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890037 1418-9

| Mineral | Color | % | F | Cl | Na2O | MgO | Al2O3 | SiO2 | P2O5 | SO3 | K2O | CaO | TiO2 | Cr2O3 | MnO | FeO | ZrO2 | BaO | La2O3 | Ce2O3 | Nd2O3 | HfO2 | ThO2 | Total | | |
|--------------|-------|--------|------|------|------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|-------|------|-------|-------|-------|------|------|-------|-----|-----|
| Gedrite | | 37.93 | | | | 21.99 | 1.13 | 56.89 | | | | 0.41 | 0.06 | | 0.69 | 18.82 | | | | | | | | | 100 | |
| Plagioclase | | 15.38 | | | 5.64 | | 28.54 | 55.56 | | | 0.10 | 9.75 | | | | 0.42 | | | | | | | | | | 100 |
| Tschermakite | | 9.75 | | | 1.90 | 12.06 | 14.81 | 50.94 | | | 1.20 | 5.63 | 0.61 | | 0.30 | 12.55 | | | | | | | | | | 100 |
| Biotite | | 4.03 | | 0.35 | | 16.83 | 16.92 | 39.10 | | | 9.21 | | 2.91 | | | 14.14 | | 0.56 | | | | | | | | 100 |
| Ilmenite | | 1.78 | | | | 0.74 | 0.12 | 0.22 | | | | | 48.79 | | 0.64 | 49.50 | | | | | | | | | | 100 |
| Quartz | | 0.84 | | | | | | 100 | | | | | | | | | | | | | | | | | | 100 |
| Oxide-Fe | | 0.63 | | | | | 1.37 | 1.04 | | | | | | 0.68 | | 96.91 | | | | | | | | | | 100 |
| Apatite | | 0.073 | 1.04 | 1.98 | | | | | 39.98 | | | 57.00 | | | | | | | | | | | | | | 100 |
| Sylvialite | | 0.029 | | | 3.85 | | 26.33 | 46.35 | | 5.99 | | 17.48 | | | | | | | | | | | | | | 100 |
| Zircon | | 0.004 | | | | | | 34.87 | | | | | | | | 0.00 | 65.13 | | | | | | 0.00 | | | 100 |
| Rutile | | 0.001 | | | | | 4.62 | 5.78 | | | | | 72.90 | | | 16.71 | | | | | | | | | | 100 |
| Monazite* | | 0.0001 | | | | | | | 29.79 | | | 0.00 | | | | | | | 31.38 | 38.82 | 0.00 | | 0.00 | | | 100 |
| Oxide-MgFe | | 0.0001 | | | | 49.75 | | | | | | | | | | 50.25 | | | | | | | | | | 100 |

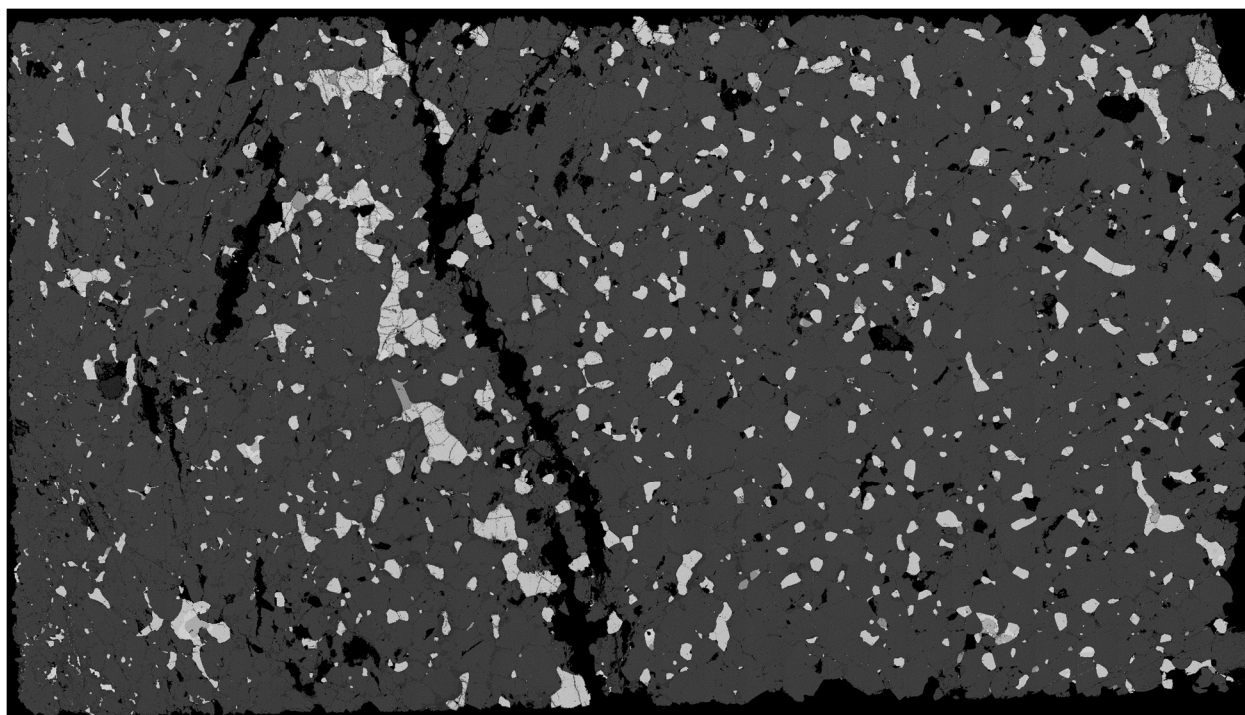
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|-------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 27.26 | 39.07 | 60.33 | | 0.60 | | 100 |
| Chalcopyrite | | 1.01 | 34.00 | 31.56 | | | 34.44 | 100 |
| Pyrite | | 0.91 | 53.64 | 46.36 | | | | 100 |
| Pentlandite | | 0.36 | 41.17 | 31.76 | 4.83 | 22.24 | | 100 |

*Insufficient counts

141890037 (1418-9): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

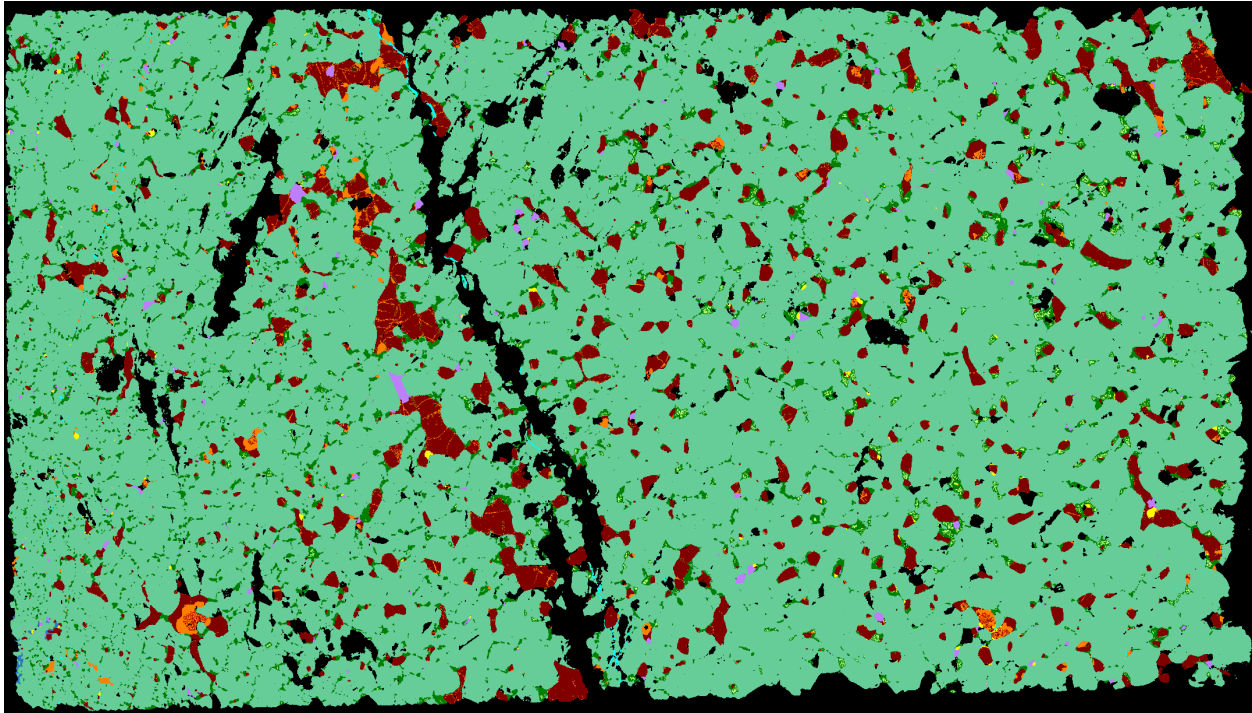
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890038 (1418-10)



141890038 (1418-10): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890038 1418-10

| Mineral | Color | % | F | Cl | CO ₂ | Na ₂ O | MgO | Al ₂ O ₃ | SiO ₂ | P ₂ O ₅ | K ₂ O | CaO | TiO ₂ | V ₂ O ₅ | Cr ₂ O ₃ | MnO | FeO | ZrO ₂ | BaO | HfO ₂ | Total | |
|--------------------|-------|--------|------|------|-----------------|-------------------|-------|--------------------------------|------------------|-------------------------------|------------------|-------|------------------|-------------------------------|--------------------------------|------|-------|------------------|------|------------------|-------|-----|
| Enstatite | | 84.22 | | | | | 22.59 | 2.85 | 52.19 | | | 0.49 | 0.10 | | | 0.58 | 21.20 | | | | | 100 |
| Hornblende | | 5.588 | | | | 0.82 | 16.26 | 8.57 | 49.96 | | 0.09 | 12.68 | 0.83 | | 0.18 | 0.18 | 10.43 | | | | | 100 |
| Ilmenite | | 0.409 | | | | | 1.62 | 0.15 | 0.26 | | | | 48.56 | | | 0.59 | 48.82 | | | | | 100 |
| Diopside | | 0.340 | | | | 0.21 | 14.02 | 3.61 | 51.55 | | | 23.64 | 0.46 | 0.00 | 0.00 | 0.18 | 6.33 | | | | | 100 |
| Oxide-Fe | | 0.149 | | | | | | 1.15 | 0.58 | | | | | 0.76 | 2.12 | | 95.38 | | | | | 100 |
| Quartz | | 0.102 | | | | | | | 100 | | | | | | | | | | | | | 100 |
| Anorthite | | 0.023 | | | | 2.55 | | 33.74 | 48.15 | | 0.00 | 15.13 | | | | | 0.43 | | | | | 100 |
| Apatite | | 0.001 | 0.00 | 0.00 | | | | | | 39.22 | | 60.78 | | | | | | | | | | 100 |
| Zircon | | 0.001 | | | | | | | 34.62 | | | | | | | | 0.00 | 65.38 | | 0.00 | | 100 |
| Magnesite-Siderite | | 0.0005 | | | 54.60 | | 21.24 | | | | | | | | | | 24.17 | | | | | 100 |
| Biotite | | 0.0004 | | | | | 21.70 | 17.63 | 41.79 | | 8.42 | | | | | | 10.46 | | | | | 100 |
| Feldspar-K* | | 0.0001 | | | | 0.00 | | 23.51 | 61.73 | | 14.76 | 0.00 | | | | | | | 0.00 | | | 100 |

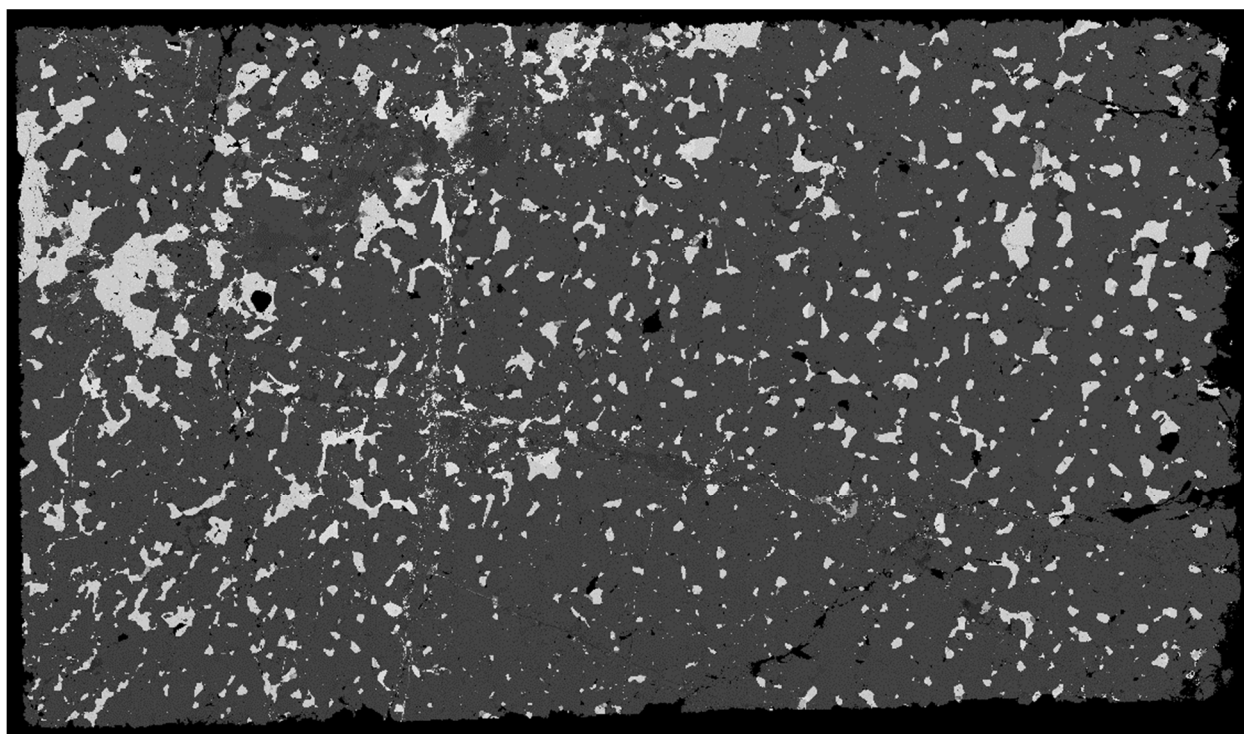
| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 7.99 | 38.72 | 60.70 | | 0.58 | | 100 |
| Chalcopyrite | | 1.01 | 39.99 | 37.11 | | 4.27 | 18.62 | 100 |
| Pentlandite | | 0.14 | 39.11 | 26.31 | 4.50 | 30.08 | | 100 |
| Pyrite | | 0.03 | 57.84 | 39.88 | | 2.28 | | 100 |

*Insufficient counts

141890038 (1418-10): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

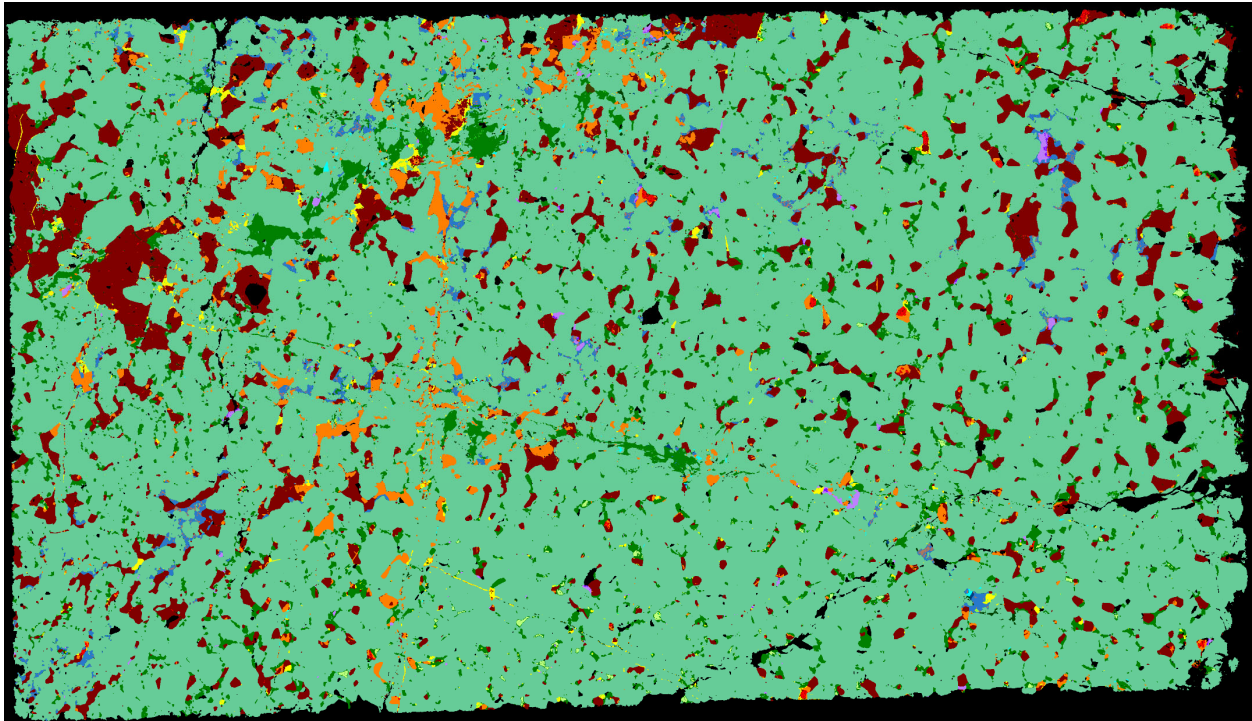
Numerical petrography of twelve (12) rock samples
using the ARTSection technology

141890039 (1418-11)



141890039 (1418-11): Optical (natural light) and backscattered electron image mosaic.

Numerical petrography of twelve (12) rock samples using the ARTSection technology



141890039 1418-11

| Mineral | Color | % | F | Cl | CO2 | Na2O | MgO | Al2O3 | SiO2 | P2O5 | K2O | CaO | TiO2 | V2O5 | Cr2O3 | MnO | FeO | ZrO2 | HfO2 | Total |
|--------------------------|-------|-------|------|------|-------|------|-------|-------|-------|------|------|-------|-------|------|-------|------|-------|-------|------|-------|
| Enstatite | | 80.44 | | | | | 23.66 | 2.64 | 52.72 | | | 0.39 | | | | 0.55 | 20.04 | | | 100 |
| Hornblende + Actinolite* | | 5.09 | | | | 1.16 | 15.54 | 10.87 | 47.68 | | | 11.78 | 1.17 | | 0.46 | 0.19 | 11.15 | | | 100 |
| Anorthite | | 1.05 | | | | 1.40 | | 35.54 | 46.66 | | 1.51 | 14.89 | | | | | | | | 100 |
| Oxide-Fe + Siderite* | | 0.55 | | | 26.96 | | 1.02 | 0.86 | 1.21 | | | | 0.21 | 0.45 | 3.61 | | 65.69 | | | 100 |
| Ilmenite | | 0.20 | | | | | 1.40 | 0.16 | 0.52 | | | | 49.32 | | | 0.66 | 47.93 | | | 100 |
| Muscovite | | 0.15 | | | | 0.55 | 0.65 | 36.18 | 46.74 | | 7.09 | 4.69 | | | | | 4.09 | | | 100 |
| Magnesite-Siderite | | 0.15 | | | 51.39 | | 28.18 | | | | | 0.36 | | | | 1.25 | 18.81 | | | 100 |
| Diopside | | 0.11 | | | | | 14.47 | 4.02 | 51.72 | | | 22.50 | 0.52 | | 0.29 | 0.22 | 6.25 | | | 100 |
| Quartz | | 0.05 | | | | | | | 100 | | | | | | | | | | | 100 |
| Oxide-FeCr | | 0.04 | | | | | 1.42 | 3.07 | 1.51 | | | | 0.64 | 0.82 | 11.23 | | 81.31 | | | 100 |
| Actinolite | | 0.02 | | | | | 20.64 | 2.85 | 56.73 | | | 12.38 | | | | | 7.39 | | | 100 |
| Plagioclase | | 0.02 | | | | 8.20 | | 24.77 | 60.86 | | 0.00 | 5.44 | | | | | 0.73 | | | 100 |
| Rutile* | | 0.02 | | | | | 3.54 | 0.50 | 3.63 | | | | 67.61 | | | | 24.72 | | | 100 |
| Biotite | | 0.02 | | 0.39 | | | 17.39 | 17.87 | 39.25 | | 7.99 | | 2.69 | | | | 14.42 | | | 100 |
| Apatite | | 0.008 | 0.00 | 1.98 | | | | | | | | 57.53 | | | | | | | | 100 |
| Zircon | | 0.001 | | | | | | | 33.66 | | | | | | | | 0.00 | 66.34 | 0.00 | 100 |

| Mineral | Color | % | S | Fe | Co | Ni | Cu | Total |
|--------------|-------|------|-------|-------|------|-------|-------|-------|
| Pyrrhotite | | 9.54 | 38.51 | 60.95 | | 0.54 | | 100 |
| Chalcopyrite | | 2.18 | 34.13 | 31.50 | | | 34.37 | 100 |
| Pyrite | | 0.21 | 40.86 | 48.10 | | 7.67 | 3.37 | 100 |
| Pentlandite | | 0.14 | 39.61 | 23.51 | 4.70 | 32.18 | | 100 |

*Mixed signal

141890039 (1418-11): False colour mineral map deconvoluted from EDS X-ray map mosaic. Mineral abundance is calculated from pixel abundance. Mineral chemistry is calculated from composite spectrum of all pixels of each mineral phase.

APPENDIX 7

CLAIMS LIST
(as of June 2021)

Prospection at the HSP project

| Title | NTS Map | Start Date | Expiry Date | Owner |
|-------------|---------|------------|-------------|-----------------|
| CDC-2541627 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541628 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541629 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541630 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541631 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541632 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541633 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541634 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541635 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541636 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541637 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541638 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541639 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541640 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541641 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541642 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541643 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541644 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541645 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541646 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541647 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541648 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541649 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2541650 | 12M05 | 2019-07-16 | 2022-07-15 | Jacob Verbaas |
| CDC-2530232 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530233 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530234 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530235 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530236 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530237 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530238 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530239 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530240 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530241 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530242 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530243 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530244 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530245 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530246 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530247 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530248 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530249 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530250 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |

Prospection at the HSP project

| Title | NTS Map | Start Date | Expiry Date | Owner |
|-------------|---------|------------|-------------|-----------------|
| CDC-2530251 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530252 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530253 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530254 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530255 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530256 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530257 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530258 | 12M12 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530259 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530260 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530261 | 12M12 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530262 | 12M12 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530263 | 12M12 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530264 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530265 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530266 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530267 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530268 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530269 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530270 | 12M05 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2530271 | 12M12 | 2019-01-29 | 2022-01-28 | Go Metals corp. |
| CDC-2540092 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540093 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540094 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540095 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540096 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540097 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540098 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540099 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540100 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540101 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540102 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540103 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540104 | 12M05 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540105 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540106 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540107 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540108 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540109 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540110 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540111 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540112 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540113 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |

Prospection at the HSP project

| Title | NTS Map | Start Date | Expiry Date | Owner |
|-------------|---------|------------|-------------|---------------|
| CDC-2540114 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540115 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540116 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540117 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540118 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540119 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540120 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540121 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540122 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540123 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540124 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540125 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540126 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540127 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540128 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540129 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540130 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |
| CDC-2540131 | 12M12 | 2019-06-04 | 2022-06-03 | Jacob Verbaas |