

**BC Geological Survey
Assessment Report
38024**



TYPE OF REPORT [type of survey(s)]: Geophysical and diamond drilling TOTAL COST: \$1,388,648.85

AUTHOR(S): John A. McClintock SIGNATURE(S): _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-8-280 YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event numbers 5722483 and 5721042

PROPERTY NAME: Pemberton Hill Area of North Island Claim Block

CLAIM NAME(S) (on which the work was done): 513929, 513931, 398335, 516078, 516527

COMMODITIES SOUGHT: copper, gold molybdenum and rhenium

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Nanaimo NTS/BCGS: 92L 12

LATITUDE: 50 ° 37.8 ' _____ " LONGITUDE: 127 ° 46.2 ' _____ " (at centre of work)

OWNER(S):
1) North Island Mining 2) _____

MAILING ADDRESS:
15th Floor, 1040 West Georgia Street
Vancouver , B.C.

OPERATOR(S) [who paid for the work]:
1) Northisle Copper and Gold Inc 2) _____

MAILING ADDRESS:
as above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Bonanza Group volcanic rocks, andesite, Island Intrusions, quartz diorite, advanced argillic and argillic alteration, induced polariz

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 22374, 21053, 15876, 2190

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization	13.8 line km	513929, 513931, 398335, 516078, 516527	82,756.06
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core	3401 metres, 8 holes, HQ and NQ	398335, 516078	1,139,579.84
Non-core			
RELATED TECHNICAL			
Sampling/assaying	1735 core samples	398335, 516078	95,416.18
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)	9.4 km	513929, 513931, 398335, 516078, 516527	70,896.77
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
TOTAL COST:			1,388,648.85

2018 TECHNICAL ASSESSMENT REPORT on Induced Polarization and Drilling at PEMBERTON HILLS

**Nanaimo Mining Division
British Columbia**

NTS 94D/12 50° 37.8' N/127° 46.2' W

Event # 5721042 & 5722483

**Tenure #'s:
513929, 513931, 398335, 516527**

**Prepared for:
Northisle Copper and Gold Inc.**

**Prepared by:
John McClintock, P.Eng,**

February 2019

Revised 22 August, 2019

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- Appendix I: A Logistic Report on Induced Polarization Surveying Pemberton Hills Property, Coal Harbour Area British Columbia**
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1.0 SUMMARY

The Pemberton Hills area claims form part of the much larger North Island Property Claims owned by North Island Mining, a fully owned subsidiary of Northisle Copper and Gold Inc.

The property covers a monotonous sequence of andesitic to basaltic flows, tuff-breccia and tuffs of the lower Jurassic-age Bonanza Group, which have been intruded by quartz diorite and granodiorite of the Island Intrusions of Jurassic age. Past exploration of the area has identified an area of silicification and clay alteration measuring roughly 3.5 kilometres by 1.5 kilometres centred on a topographic feature referred to as the Pemberton Hills. Previous work including, prospecting, large scale mapping, shallow drilling and geophysical surveying have been inconclusive with respect to determining the cause of the alteration. Early work surmised the alteration was largely epithermal in nature while more recent work viewed the alteration as being related to a deeply buried porphyry copper system. In 2018 an induced polarization (IP) survey and 7 widely spaced drill holes tested the central part of the alteration area.

The IP Survey showed a broad area of anomalous chargeability values associated with the clay – silica alteration. Subsequent drilling showed the sulphide content of the rocks did not necessarily correspond to the measured chargeability. In general, the pyrite content of the rocks encountered in drilling contained an average of 6 to 8% as disseminations and lesser veins despite the measured chargeability showing wide ranges of values. Holes P18-05 and P18-04a, drilled in the highest part chargeability had the least quantity of pyrite, while holes P18-01, 2, 2a and 3 drilled on the margin of the highest part of the chargeability anomaly had the highest pyrite content. The reason for the poor correlation between the chargeability anomaly and actual sulphide content requires further study.

Drilling was both difficult and expensive relative to drilling at other locations on the North Island Property. In the upper 200 to 300 metres of the holes, numerous and wide fault zones filled with swelling clays (smectite) and fine siliceous rock fragments caused excessive wear on core barrels and rods often causing core barrels and rods to break off in the hole. Swelling clays also resulted in casing to be stuck and often being lost in the drill holes.

None of the 7 holes successfully penetrated the high level alteration. The deepest hole, P18-06 was stopped at 701 metres still in high level clay alteration. The two eastern holes, P18-04a and P18-07 both encountered a major fault which juxtaposed high-level clay alteration against propylitically altered quartz

diorite porphyry. Holes P18-02, P18-02a and P18-03 were all lost at shallow depths in fault zones. Drill-hole P18-05 was stopped at 573 metres when it drilled into a porphyritic quartz diorite.

The cause of the high level alteration at Pemberton Hills remains unresolved and will require further drilling.

2.0 INTRODUCTION AND TERMS OF REFERENCE

The Pemberton Hills area has long been known as large area of strong hydrothermal alteration of uncertain origin. Initially thought to be related to an epithermal gold system, recent workers have thought the alteration could be related to a deeply buried porphyry copper system. To help characterize the alteration types present at Pemberton Hills, a spectral analysis study of rocks collected from outcrops and road cuts was carried out from 17 February to 19 February 2017 (McClintock, 2017) showed the presence of an advanced argillic assemblage of clay minerals. The report recommended the testing of the clay alteration with three widely spaced drill holes located in areas with the highest temperature clays.

In February 2018, Northisle copper and gold signed an option agreement with Freeport McMoRan Mineral Properties Inc (Freeport) where by Freeport could earn up to 65% interest in the Pemberton Hills area claims by meeting certain expenditure requirements. A more aggressive exploration program was then funded by Freeport, which included approximately 1,300 metres of Pole – Dipole Induced Polarization surveying and 3,400 metres of HQ and NQ diamond core drilling.

3.0 PROPERTY DESCRIPTION AND LOCATION

3.1 LOCATION AND ACCESS

The Pemberton Hills claim group area is located at the northern end of Vancouver Island, in British Columbia, Canada. Geographic coordinates are 50° 37.8' north latitude and 127° 46.2' west longitude (Figure 1). The claims are owned by North Island Mining a wholly owned subsidiary of Northisle Copper and Gold Inc. and at the time of this report subject to an option agreement with Freeport.

Access to the claim block is from Coal Harbour by the Coal Harbour Forrest Access Road, then by the Wanokana Road. From the Wanokana Road, the central part of the area is accessible from the Pemberton 100 spur and the Hushamu spur roads (Figure 1). Tide water is within 4 kilometres from any part of the area of interest.

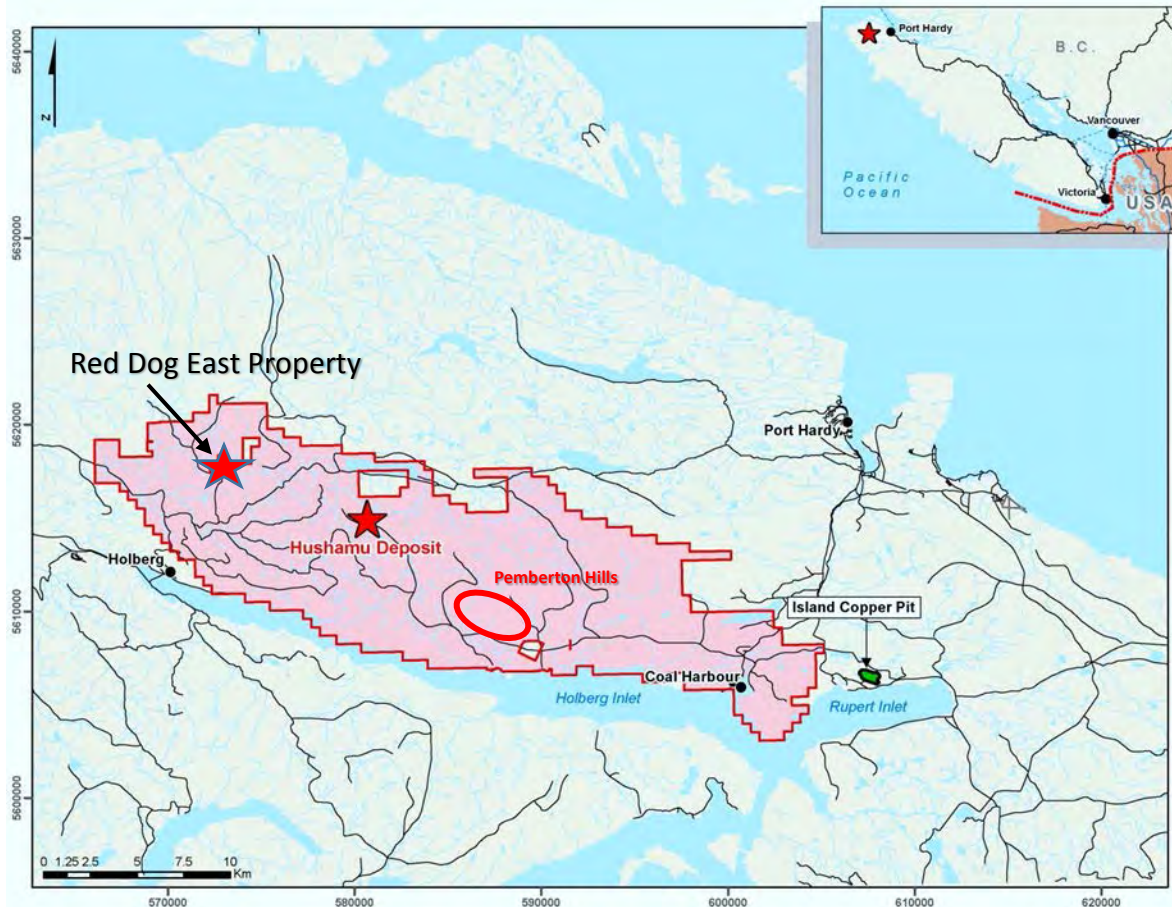
3.2 MINERAL TENURE INFORMATION

The Pemberton Hills claim group portion of the North Island Claim Block consists of twelve (12) mineral claims totaling 4,956.8 has. (Table 1). The property is located on NTS map sheet 94L/12W in the Nanaimo Mining Division, approximately 20 km southwest of Port Hardy, BC, Vancouver Island B.C. The geographic coordinates of the approximate property centre are 50 42.5' N latitude 127 57.8' W longitude (Figures 1, and 2a).

Table 1: Mineral Tenures

Record No.	Claim Name	Issue Date	Good to Date	New Good to Date	Area Has.
518531		2005/JUL/29	2020/APR/01	2021/APR/01	511.76
512122	FIL 25	2005/MAY/05	2020/APR/01	2021/APR/01	245.75
515277		2005/JUN/25	2019/DEC/11	2021/DEC/11	245.85
516527		2005/JUL/09	2019/DEC/11	2021/DEC/11	163.94
513929		2005/JUN/04	2019/DEC/11	2021/DEC/11	430.36
515281		2005/JUN/25	2019/DEC/11	2021/DEC/11	614.93
398335	Apple Bay Twenty	2002/NOV/16	2018/DEC/11	2020/DEC/11	500
516078		2005/JUL/05	2019/DEC/11	2021/DEC/11	286.99
374744	Apple Bay Four	2000/MAR/11	2019/DEC/11	2021/DEC/11	400
513931		2005/JUN/04	2019/DEC/11	2021/DEC/11	696.95
506021	Wanakana Central	2005/FEB/06	2019/DEC/11	2021/DEC/11	348.31
512091	FILL 5	2005/MAY/05	2020/DEC/11	2021/DEC/11	511.96

The claims are currently registered in the name of North Island Mining Corp., a wholly owned subsidiary of Northisle Copper and Gold Inc.



Location Map, Fig. 1

NAD 83 Zone 9

3.3 PHYSIOGRAPHY AND CLIMATE

The area is characterized by moderate to steep relief in the order of 250 metres between valley bottoms and hill tops. Much of the area is best described as a plateau dissected by steep walled creeks, which from east to west are known as Steves and Youghpan creeks.

Much of the area has been logged with only a few stands of old growth remaining. Secondary growth has established in some areas. Traversing can be difficult particularly in areas of the most recent logging.

Climate in the area of the Property is typical of coastal areas of British Columbia with an annual precipitation of 2,500 mm, and a daily average temperature of 8.8°C (Environment Canada, 1971-2000). Winters are very wet, with 75% of the annual precipitation occurring from October to March, mostly as rainfall at lower elevation, but with significantly increasing percentage of snowfall accumulation above 300 m in elevation. Generally, exploration and development work is possible for most of the year, allowing for a long exploration field season.

reached 134 metres and cut silicified and clay altered pyritic volcanic rocks and feldspar porphyry dykes (Pawliuk, 1992).

Since the work by Moraga, little exploration has been carried out on the property. In 2012, Northisle completed a limited induced polarization survey and large scale mapping. The visual similarity of the alteration at Pemberton Hills with that on Mount Macintosh, where the alteration overlies copper – gold porphyry mineralization at depth, prompted a TerraSpec Xray diffraction study (McClintock, 2017). The TerraSpec survey to confirm the mineralogical similarities between the two alteration systems. The results of the 2017 TerraSpec survey were encouraging and justified a follow-up program in 2018 of IP surveying and widely spaced deep drilling to test for the presence of a porphyry copper system at depth. The location of the drill holes were selected on the basis of clay mineralogy in surface exposures and to a lesser extent on the results of the IP survey.

5.0 REGIONAL GEOLOGY

The regional geology of the Rupert area was mapped by Nixon et al. (2006) and the following summary is a synopsis of Nixon's paper. Figure 3 shows the bedrock geology of northern Vancouver Island. Vancouver Island is comprised of Upper Paleozoic to Lower Mesozoic rocks of Wrangellia – a tectonostratigraphic terrane that occurs discontinuously northward as far as central Alaska. This terrane was amalgamated to the Alexander Terrane of the Alaskan Panhandle (together comprising the Insular Superterrane) by Late Carboniferous time. Subsequently, these terranes were accreted to North America between the Middle Jurassic and the mid-Cretaceous. Thus, Vancouver Island records an early allochthonous history, and a later history with commonality to the North American margin.

The pre-accretion history of Wrangellia is represented by the Paleozoic Sicker Group and the Middle Triassic Karmutsen Formation. The Sicker Group comprises marine Devonian to Early Permian volcanic and sedimentary rocks that host VMS deposits such as at Myra Falls. The Karmutsen conformably overlies the Sicker Group and comprises basaltic and minor sedimentary rocks that underlie about 50% of Vancouver Island. This unit is up to 6000 m thick. Richards et al. (1991) argued that the Karmutsen was initiated by, and extruded above a mantle plume and recent geochemical data support an oceanic plateau origin for the Karmutsen (Greene et al., 2006). The Karmutsen is in turn conformably overlain by the Quatsino Formation of limestone consistent with a period of quietude following impingement of a mantle plume.

The Bonanza Arc (DeBari et al., 1999) formed along the length of Vancouver Island during accretion of Wrangellia. Owing to later tiling, products of this arc from various crustal depths are all preserved. These include the Westcoast Crystalline Complex, Island Intrusions and the Bonanza Group volcanic rocks. DeBari et al. (1999) argue that all these components have similar ages and geochemical signatures and that they are therefore all products of a single arc. Ages for these rocks range from ca 190 to 169 Ma. Intrusive rocks of the Island Intrusions are responsible for porphyry copper mineralization on Vancouver Island.

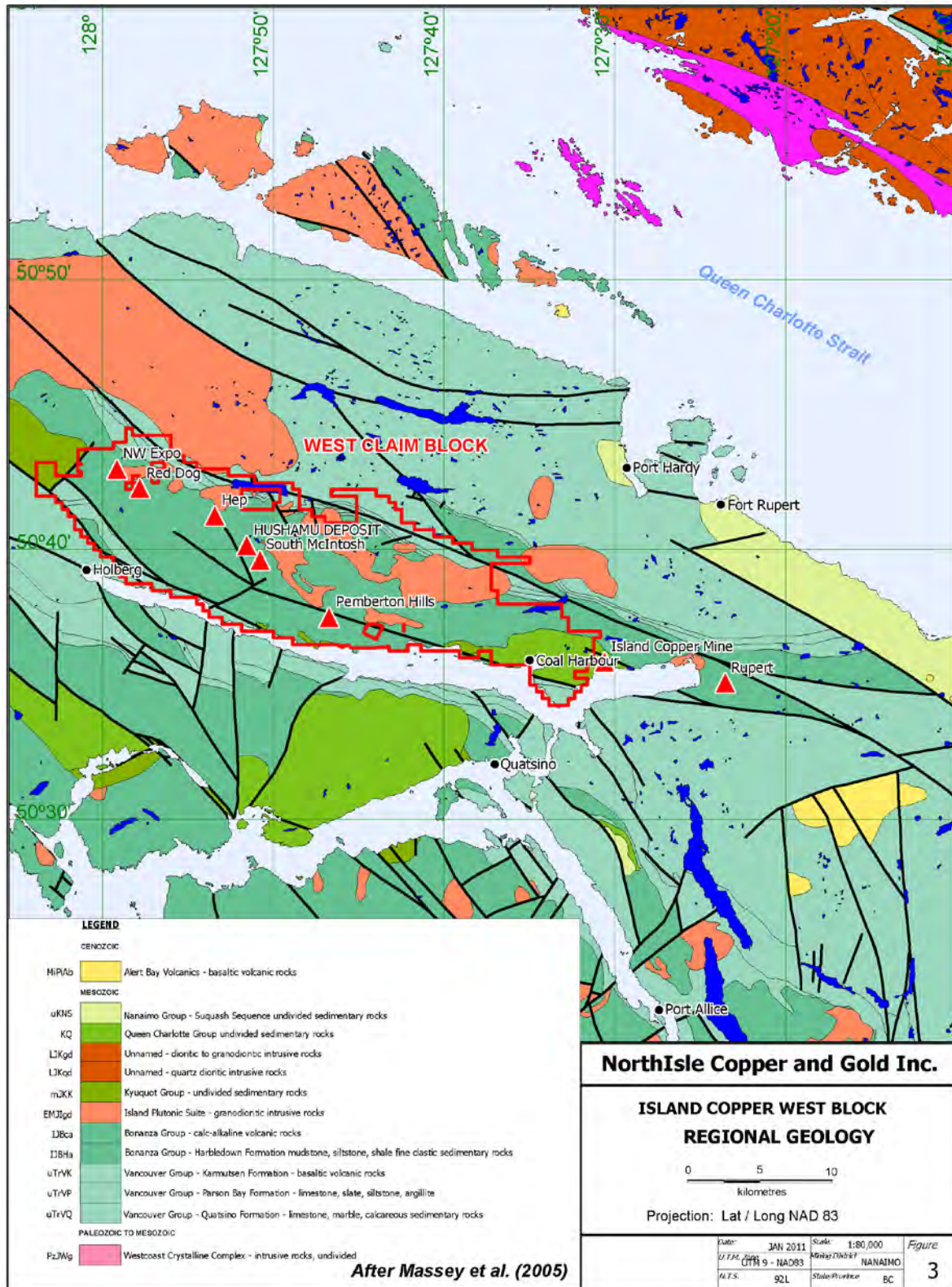


Fig. 3 Regional Geology

6.0 Geophysics

During the periods 25 September to 4 October and 10 October to 15 October 2018, Peter E. Walcott & Associates Ltd. undertook a pole dipole induce polarization survey over the Pemberton Hills portion of the North Island Claims. Initially, two lines, L1000N and L1600N oriented at 290° previously cleared and surveyed by G.U.E.S. Ltd. Favourable results found on the first two lines prompted the surveying of a third parallel line referred to a L2300N. The line length surveyed were 4,400, 5,000 and 4,400 metres respectively (Fig 2). The dense brush and locally precipitous terrain made both line clearing and surveying the lines slow and expensive.

Details of the survey procedure and results are available in the report entitled “A logistic Report on Induced Polarization Surveying Pemberton Hills Property, Coal Harbour Area, British Columbia” by Peter E. Walcott, P. Eng., which is available in Appendix I.

In general, the IP chargeability showed much of the area survey to have low to moderate chargeability in the range of 10 to as high as 30 mV/V. The chargeability readings in general were of lower values than were expected considering the high concentrations of pyrite observed in surface exposures. The drill holes, which tested both areas of high chargeability and low chargeability all had an average of 6 to 8% pyrite, a quantity that would be expected to give much higher chargeability readings. The reason for the lower than expected chargeability readings and lack of close correlation between the expected amount of chargeable material and that in drill holes remains an enigma requiring further study.

Surprisingly, the upland areas, largely underlain at surface by intensely silicified rock have low resistivity readings.

7.0 Drilling

A total of 3,401.6 metres of HQ and NQ core drilling in 7 holes was completed between 6 October and 7 December 2018 by Dorado Drilling of Vernon BC. The program commenced with one rig; however, slow progress necessitated bring a second drill to site in mid-November.

Table 2, Drilling Statistics

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Final Depth	Date Started	Date Finished
P18-01	586691.2	5609756	419	20	-70	471.6	06/10/2018	15/10/2018
P18-02	587063.2	5609317	271	20	-70	133.5	17/10/2018	22/10/2018
P18-02A	587063.2	5609317	271	0	-90	142	23/10/2018	30/10/2018
P18-03	586981	5609263	252	0	-90	149.5	30/10/2018	09/11/2018
P18-04	588203	5609642	392	290	-70	19	09/11/2018	10/11/2018
P18-04A	588203	5609642	392	290	-75	612	10/11/2018	24/11/2018
P18-05	587409	5609691	407	45	-70	573	10/11/2018	23/11/2018
P18-06	587133	5609513	357	0	-90	701	24/11/2018	12/12/2018
P18-07	588479	5609078	166	0	-90	600	25/11/2018	07/12/2018

The location of the drill holes are shown on Figure 2. Core from the 2018 drill program is stored at Northisle’s core logging facility located at RockPro’s yard on Jensen Cove Road, Port Hardy BC.

Drill holes P18-02 and P18-02a were drilled from the same setup, but a different angles. Drill-hole P18-04 was abandoned in overburden when the driller dropped the casing in the hole. No core was recovered from P18-04. Only core from P18-02 was analysed due to the close proximity of the holes.

Drilling was problematic with only 4 holes completed to its planned depth. Most problems were caused by fault gouge containing swelling clays (smectite) and very finely ground silica, which caused both pinching rods and abrasion of core barrels and rods to point of causing them to break off in the hole. The tough conditions in the initial 200 to 300 metres required reducing the drill stem from HQ to NQ. This reduction caused further problems when the casing became entrapped in the clay-filled gouge and couldn’t be dislodged from the hole. As a result of these conditions, the drill cost at Pemberton were nearly 30% higher than the historical drilling costs elsewhere on Northisle’s claim block.

A synopsis of the drill holes (except for P18-04) follows. Drill logs, assay certificates and cross sections can be found in Appendix II, V, and VI respectively.

P18-01

The hole intersected mainly tuffs and breccia of the Bonanza Group cut by two dykes of feldspar porphyry. Alteration at the top of the hole is intense clay, silicification and pyrite. Much of the pyrite at the top of the hole is in very fine disseminations and wispy veins of very fine grains. The clay minerals are predominately smectite at the top of the hole with kaolinite, minor dickite and pyrophyllite increasing with depth. (Heberlein, 2018). Several intervals of chlorite and magnetite bearing rock were cut by the hole. These are interpreted to be remnants of earlier altered rocks which survived overprinted by the silica – clay- pyrite alteration. The alteration at about 400 metres in the hole changes in character with the commencement of quartz as incipient veins where silicification becomes focused in vein like bands with

diffuse boundaries. Pyrite and anhydrite veins appear below 400 metres. Unfortunately, swelling clays in faults higher in the hole prevented deepening P18-01 beyond 471 metres.

P18-02 and P18-02a

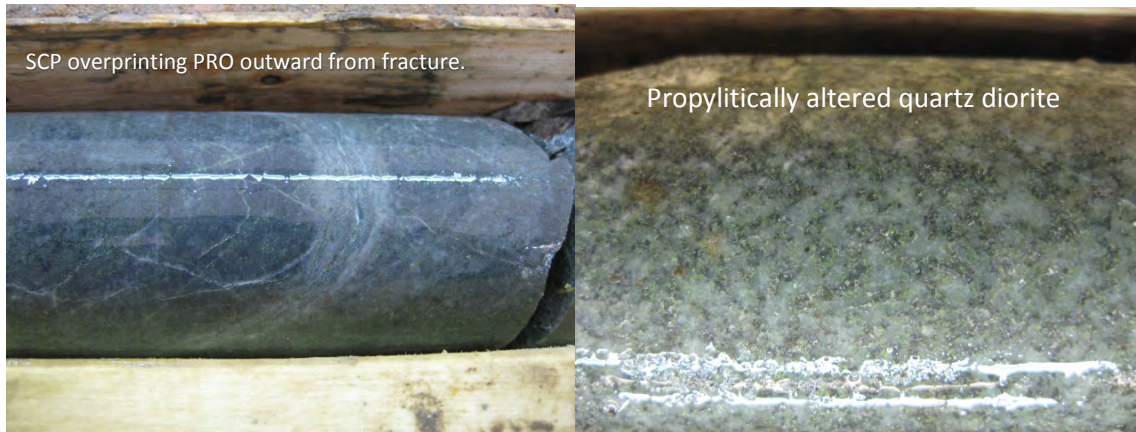
The initial hole, P18-02 was lost at 133.5 metres when the hole collapsed. A second hole, P18-02A was tried at the same site, but it too was lost due to exceptionally faulted ground. The alteration in both holes is very encouraging. It contains both stockwork quartz veining and pyrite stringers as well as kaolinite, illite and minor dickite (Heberlein, 2018).

P18-03

This hole was unfortunately lost well before its planned targeted depth of 500 metres. The core contains both stockwork quartz veining and pyrite stringers as well as pervasive kaolinite, illite and dickite alteration. Analytical results for P18-03 and P18-02a holes are similar with copper, molybdenum and rhenium at elevated levels. Values for copper are generally higher in P18-02A than P18-03, with copper values in P18-02A generally above 100ppm with the maximum value of 351ppm. Molybdenum is also elevated with short sections in both holes above 10ppm with values in both holes locally above 40ppm. Rhenium is closely correlated with molybdenum. The highest rhenium value is 1.36ppm in drill hole P18-02A. Sulphur analyses, a proxy for pyrite, content indicate an average pyrite content of 12% in P18-02A and 10% in P18-03.

P18-04a and P18-04

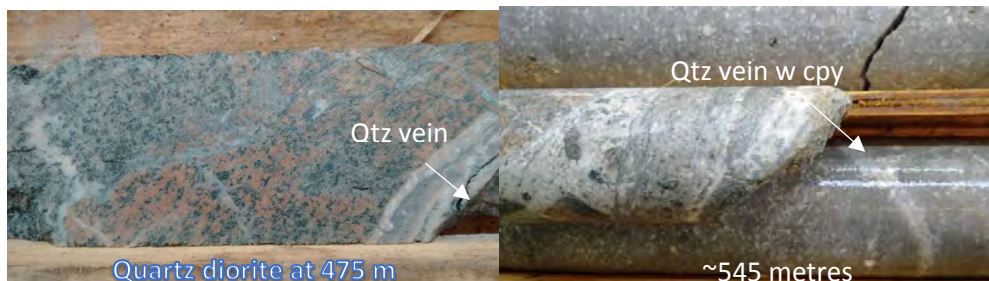
Both holes were drilled at the alternate location for Platform C. P18-04 was stopped at 19 metres and restarted at a steeper angle as P18-04A when rods were dropped in the hole and couldn't be fished out. The initial 242 metres of the hole cut quartz diorite dominantly clay altered and pervasively silicified with an average of 6 to 8 percent pyrite. The pyrite is mainly as disseminate grains replacing primary mafic minerals and lesser amounts as later hairline to 2 mm fracture fillings. Sections of propylitic alteration are present, but show varying degrees of clay alteration overprinting. There is a direct relationship between fracture intensity and the degree of clay overprinting of the earlier propylitic alteration. From 242 metres to 424 the hole cut a series of quartz diorite dykes cutting ash and lapilli tuffs. The tuffs are intensely clay, silica and pyrite altered (SCP) while the dykes are variably altered ranging from propylitic alteration in the cores of the thicker dykes to silica clay pyrite altered at the margins and where there is a high fracture density. At 424 metres there is a major fault with mylonite and cataclastic textures.



Past the fault, the alteration and rock appearance changes. The intrusion becomes porphyritic and different in appearance from the quartz diorite above the fault and the silica – clay - pyrite alteration disappears replaced by strongly propylitically alteration with sections of chlorite-kspars alteration. The average pyrite content decreases below the fault to 2 % with about 5% magnetite. Pyrite is in stringers and disseminated grains. Of note are occasional quartz veins with chalcopyrite. On average there are less than 1 or 2 quartz veins per metre.

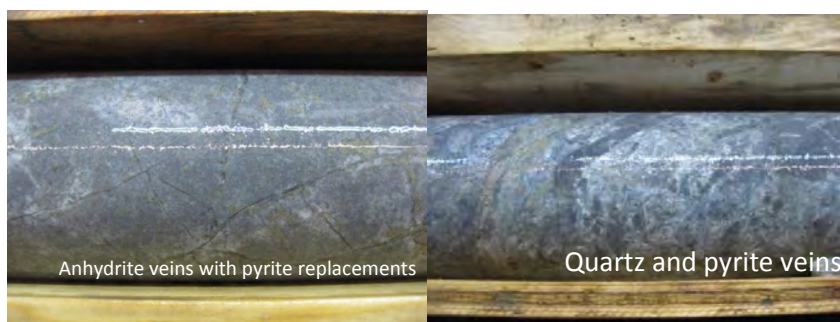
With the exception of the interval between 280 and 326 metres, all metals of interest were low. In the interval 280 to 326 metres, copper and molybdenum values are generally above 100 ppm and 7 ppm respectively. Anomalous rhenium also occurs in this interval with one two metre interval having a value of 0.7 ppm. The area with the elevated copper and molybdenum occurs in strongly clay altered andesite with notable pyrite stringers. In the quartz diorite below the fault, occasional copper values into the 300ppm range occur where narrow quartz veins with chalcopyrite were noted

Sulphur content above the fault separating altered andesite from the propylitized porphyritic quartz diorite (PQD) is just under 6% (~12% pyrite), while in the intrusive below the fault sulphur averages 1.4% (~2.8% pyrite).



P18-05

P18-05 was collared on the southwest flank of the highest chargeability anomaly and drilled north-easterly towards the IP anomaly. From the end of the casing to 354 metres the hole remained in tuffaceous volcanic rocks strongly clay altered, silicified and pyritic (SCP) cut by short intervals of hydrothermal breccia and some andesite porphyry and quartz diorite dykes, which have remnant propylitically altered sections. In one breccia, a small siliceous fragment contained a dry fracture with molybdenite. Although less pronounced than in P18-03 and 2A, there are abundant pyrite stringers and incipient quartz veins. At about 320 metres, the SCP alteration diminishes and the rock is transitional to propylitic alteration. At 354 metres the hole passed in to quartz diorite. In the upper part of the section the primary propylitic alteration is over printed by SCP – type alteration which weakens down the hole. Deeper than 460 metres, the SCP overprint is limited to areas of closely spaced fractures.

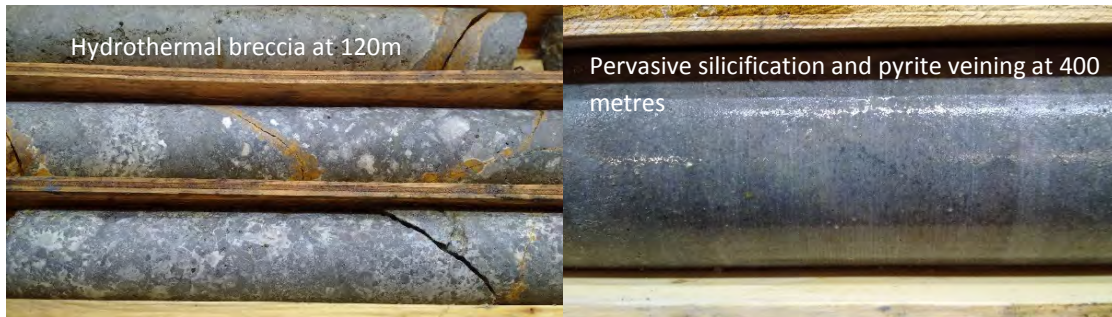


In the quartz diorite, pyrite decreases as the SCP overprint lessens. In the propylitically altered sections pyrite content is less than 3% and is mainly as fracture filling and lesser disseminations. The only feature of note are rare late quartz veins with chalcopyrite. The veins are generally less than 2 cm thick.

There are sections with copper greater than 100ppm. Generally, the values are in the 60 to 80ppm range in the SCP altered volcanic rock and quartz diorite. The lower portion of the hole in the propylitically altered quartz diorite is low for all metals except for a high copper value associated with chalcopyrite bearing quartz stringers and veins. The sulphur content of the hole indicate the upper SCP altered part has an average of 10% pyrite while the propylitically altered quartz diorite has less than 1%.

P18-06

This hole was collared about 200 metres north of P18-02. The hole began in clay, pyrite and silicified tuff and passed through two sections of hydrothermal breccia. Between 170 and 300 metres the hole cut three dykes, the first a feldspar porphyry and the second a quartz feldspar porphyry and the third a feldspar porphyry. Although pyrite stringers are present throughout, the presences of incipient quartz veining appears deep in the hole.



The hole was stopped at 701 metres in silica / clay pyrite altered andesite, although traces of epidote suggest the hole may have been transitioning into more propylitically altered rock. No further hydrothermal breccia was noted beyond 146 metres and other than short dykes of late or post mineralization, no further intrusive rocks noted.

The best copper values occur in the upper part of the hole in the section where hydrothermal breccia cuts andesite. Below 300 metres, the metals of interest are generally low. Sulphur values average 6% over the drill-hole (~12% pyrite).

P18-07

The hole commenced in strong clay silica pyrite altered tuffaceous volcanic and continued in this rock and alteration – type cut by thin late or post mineral andesite dykes to 324 metres. At 324 metres there is a major fault marked by over a metre of mylonite / cataclastite followed by 10s of metres of crushed and zeolite / carbonate filled fractures. Above the fault are intensely clay – silica – pyrite altered tuffs and below is propylitic to Kspar- chlorite altered crowded quartz diorite porphyry, very similar to that beneath the major fault in P18-04A. Below the fault there is no high-level alteration even in strongly fractured intervals. Pyrite content decreases across the fault to less than 2% from 8 to 10% above the fault. As in P18-04A, there are quartz veins cutting the quartz diorite that contain chalcopyrite; however, with one exception, the density of these veins is less than in P18-04A. The exception is a 2.4 core length interval of sheared quartz vein containing both chalcopyrite and sphalerite.



With the exception of elevated molybdenum values in the altered andesite near the contact with the underlying quartz diorite, values for all metals were low. In the porphyritic quartz diorite, copper values are generally low with the exception of one interval containing a quartz vein with chalcopyrite. Here, copper is 1000ppm with associated 2525 ppm zinc. As in the case of P18-04a, there is a significant difference in the sulphur content in the clay altered rocks above the fault with those below.

7.1 GENERAL COMMENTS ON ROCK TYPES

Plotting Zr/Ti vs Nb/Y in conjunction with Co vs Th plots confirm the main mineralization and alteration hosts are calc alkaline series basaltic andesite and andesite. Fig 4 through 7.

The plots show the main intrusive rocks have a different trace metal composition than the andesite. In particular, the quartz diorite at the ends of holes P18-04a and P18-07 are in or close to the High K / Shoshonite series. The higher potassium content is notable in the stained thin section that indicate significant Kspar in the matrix of the porphyry. It is also notable that the quartz diorite in P18-05 located in the western drill area plots in the calc alkaline field and has significantly less Kspar in thin section. This may indicate the intrusion cut in the eastern holes are a separate intrusion than that in the west. Also of note, is the narrow porphyry dykes cut in the western holes plot closely with the andesite and are different than the thicker intrusions found in P18-04a and P18-07. These narrower dykes may have a source different than the PQD intrusion.

Eastern Holes P18-04a and 07

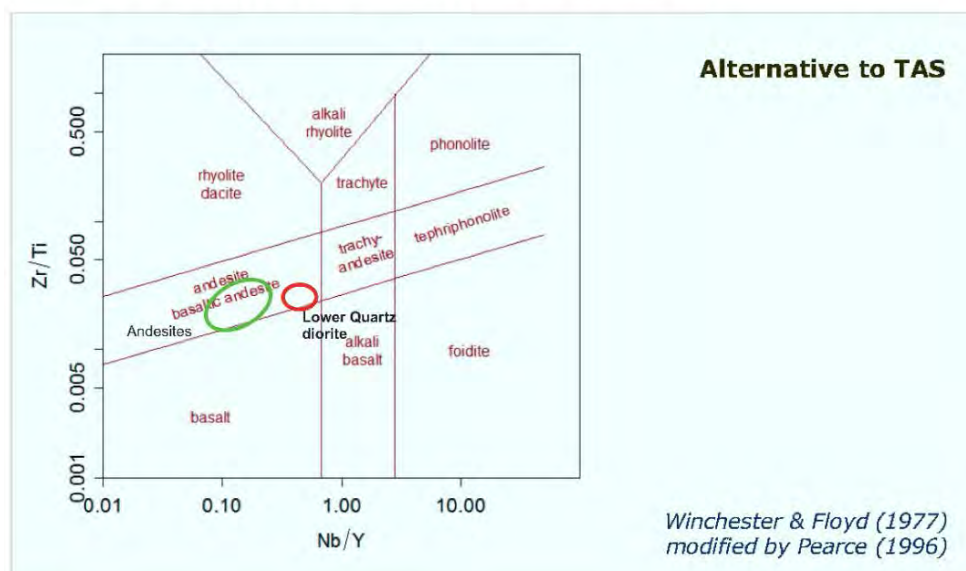


Figure 4

Western Holes P18-01,03,05,06

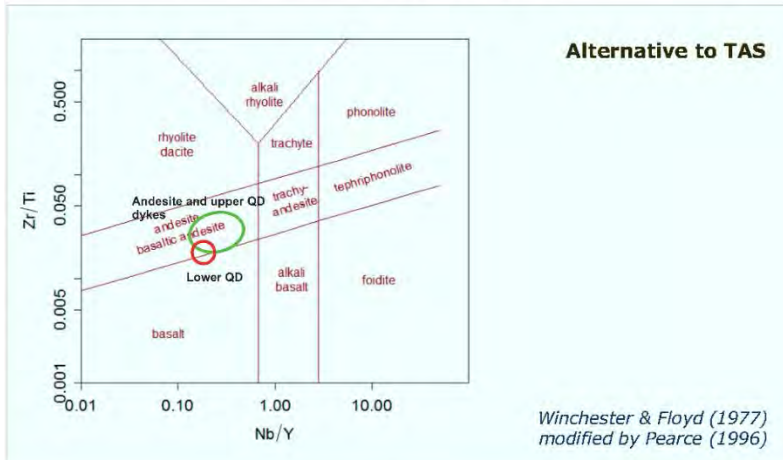


Figure 5

Eastern Holes P18-04a and 07

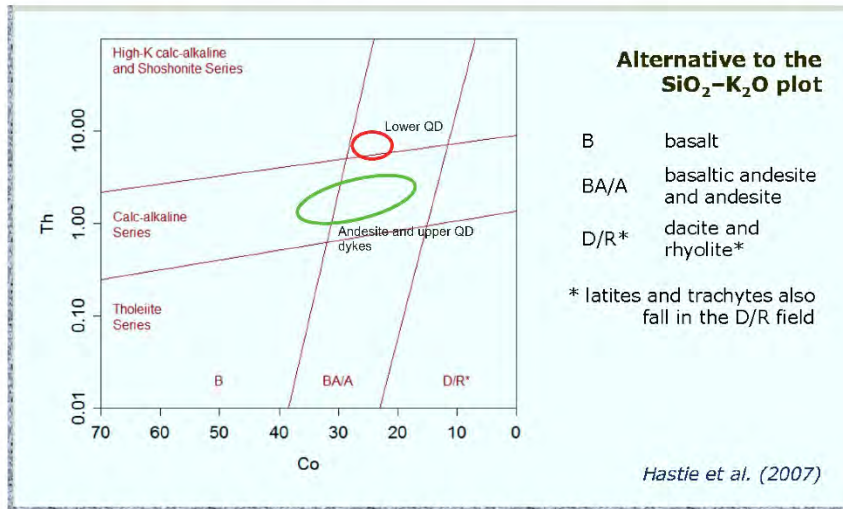


Figure 6

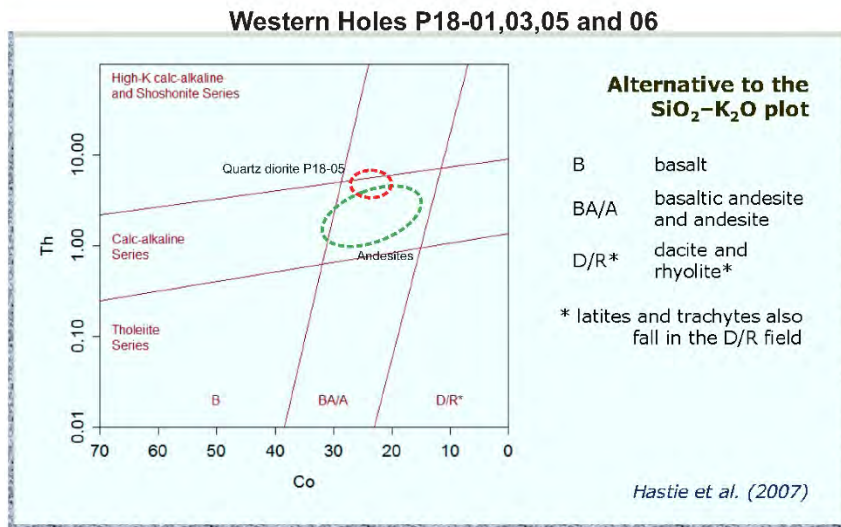


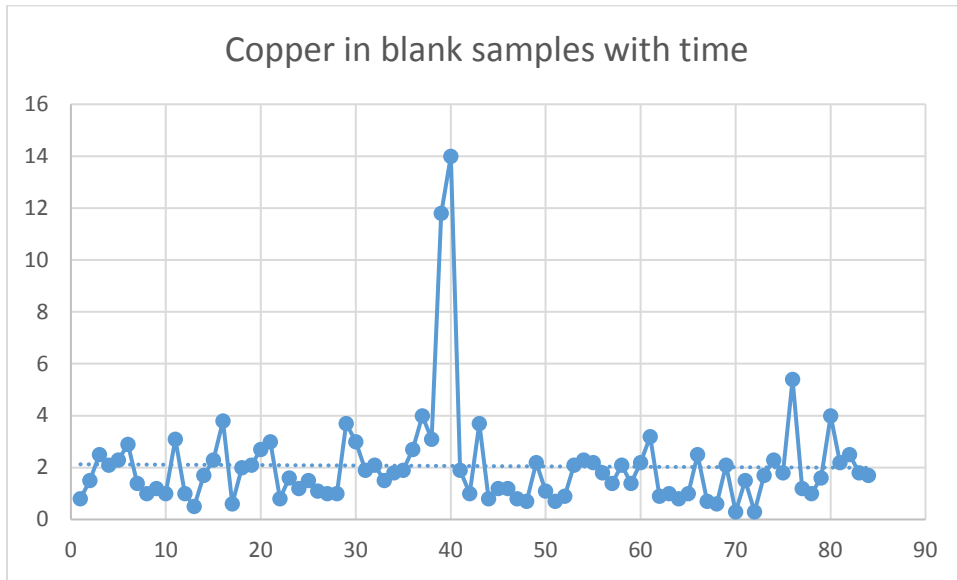
Figure 7

7.2 QA/QC

Core from this year's program was placed by the drillers in to plywood boxes carefully marked with box number, sample interval and with wooden blocks to show the start and finish of runs. Lids were attached on the top of the boxes and a geologist then transported the core by truck to Northisle's core facility at Jensen Cove Road. At the core facility, the box lids were removed and the core carefully cleaned, logged for geotechnical information, geology and assay intervals marked out. A cut line was marked down the core for the core cutters to follow. One half of the cut core was placed in a plastic bag with a sample number and the other half returned to the core box. Five sample bags were placed in rice bags and once four such rice bags were accumulated they were placed on a palette and wrapped in cellophane. Once a week, the samples were picked up by VanKam Freight for shipment to BLV laboratories in Vancouver for analysis. At BLV laboratories, the samples were analysed for gold and 45 other elements. Gold analysis was by fire assay preparation with ICP finish. The other elements were analysed by ICP mass spectrometry.

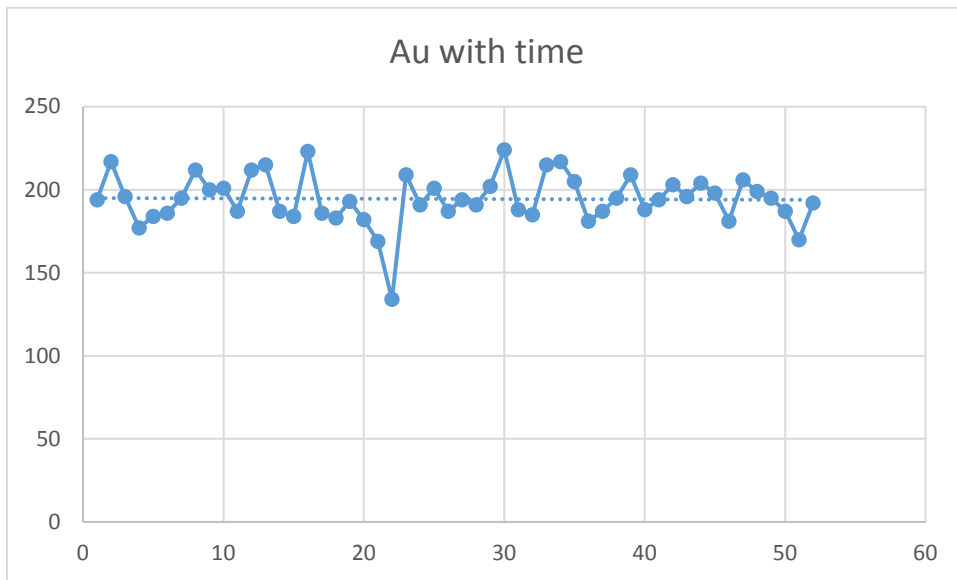
Analysis of samples was done by BVL Laboratories in its Vancouver laboratory facilities. BVL's internal quality control check sampling is included in the sample results returned by the lab. In addition to BVL's QA/QC program, Northisle carried out its own systematic program of insertions of standard and blank samples as well as duplicate sampling was done to ensure quality assurance and quality control. With the exception of two blank samples, one low standard lying outside of the acceptable limits, there were no significant discrepancies found by the check sampling.

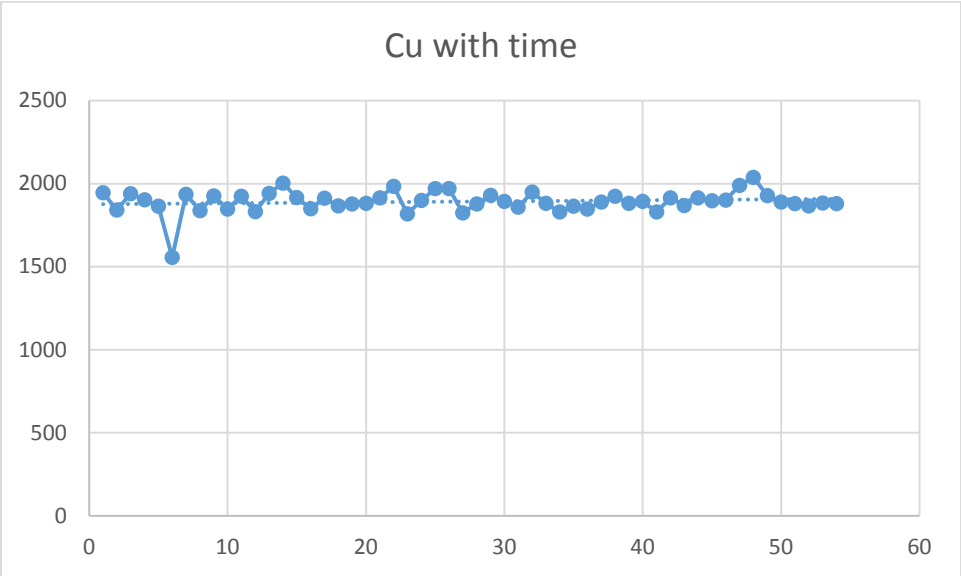
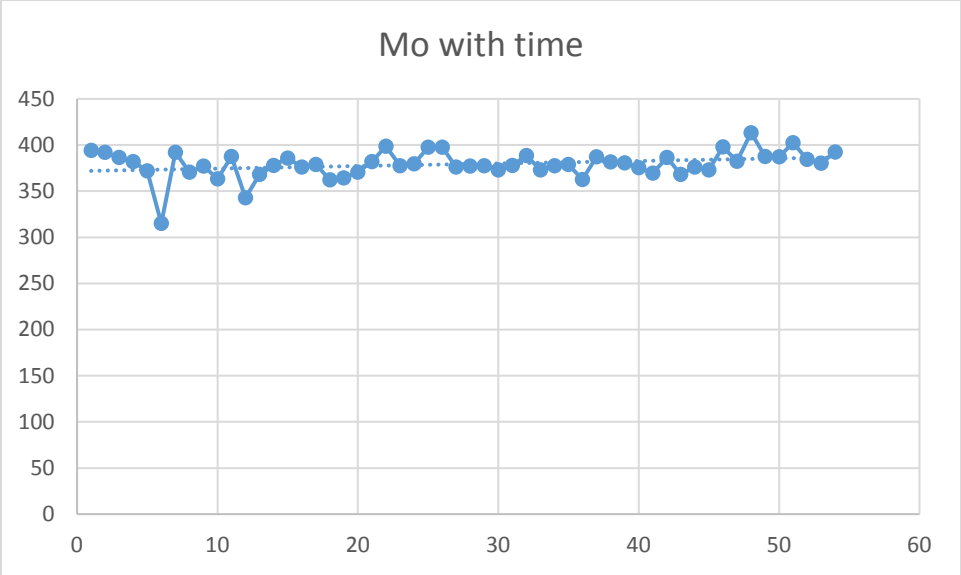
Blank Samples used landscape rock purchased at Home Hardware in Port Hardy.



Low Standard

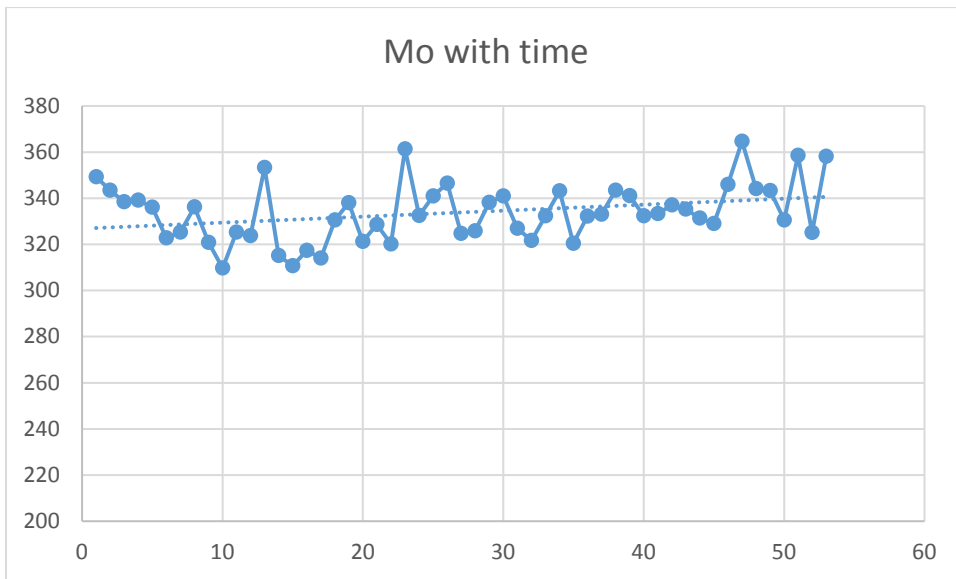
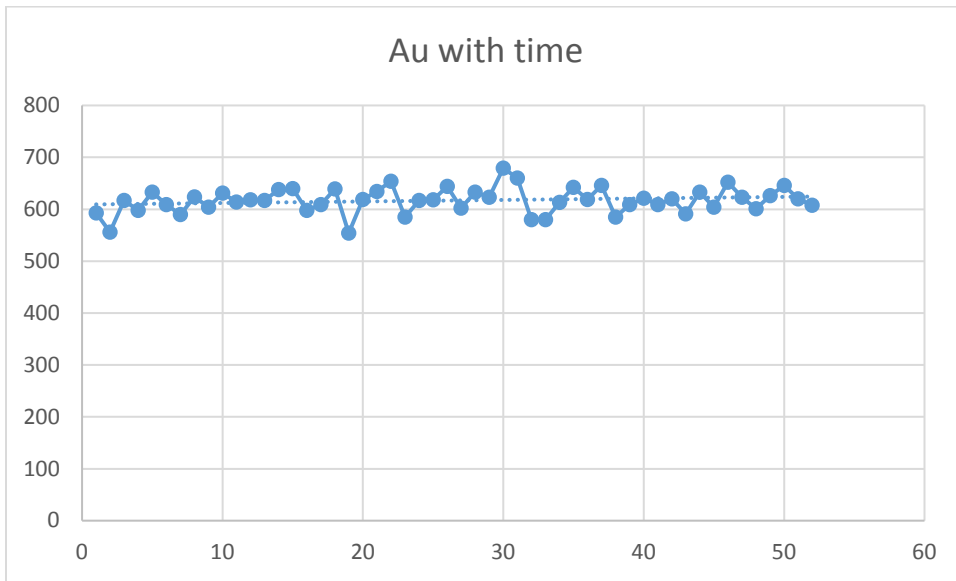
The low standard had two failures, one sample for gold and one sample which failed both for copper and molybdenum. Neither sample failure is considered significant.

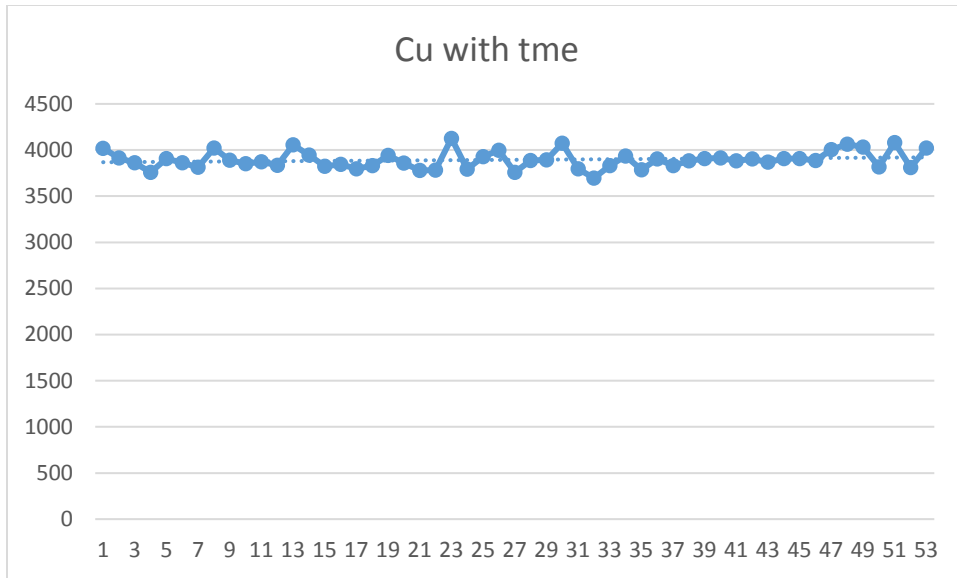




High Standard

There were no failures with the high standards.

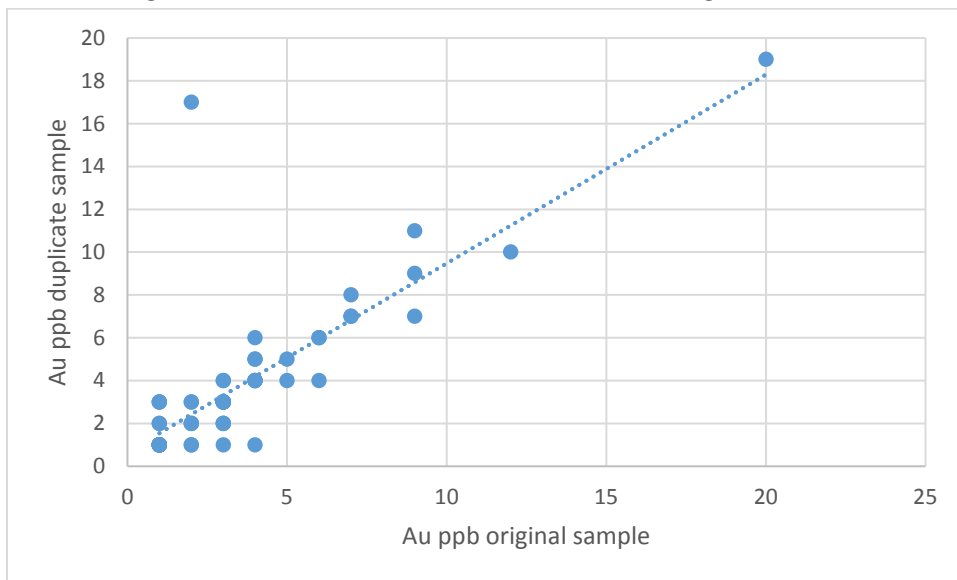


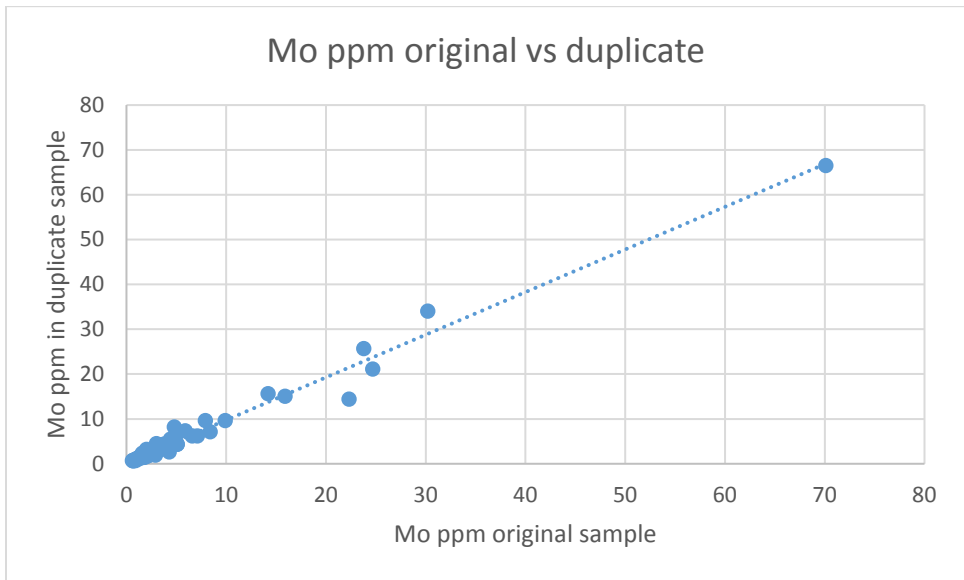


Duplicate samples

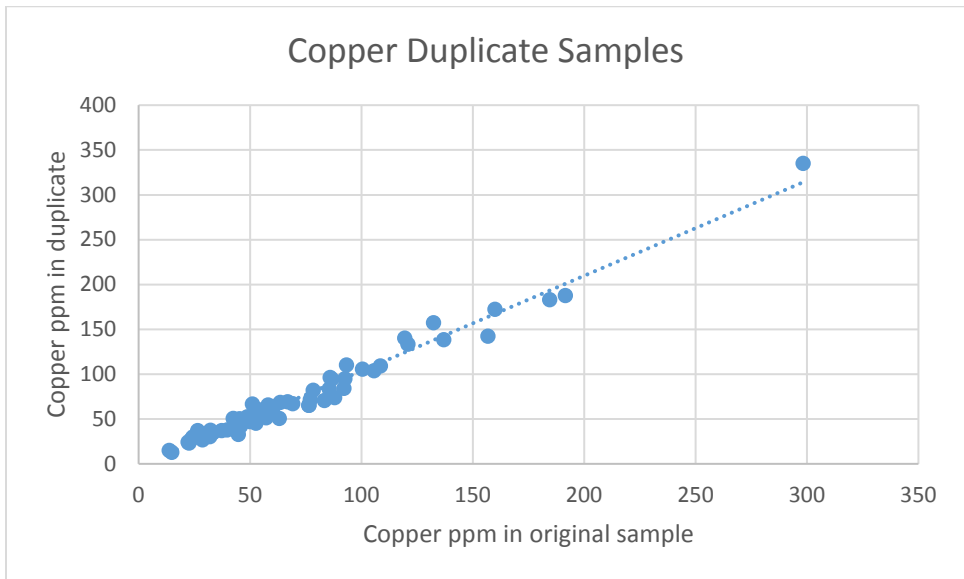
The duplicate samples consisted of one half of the core split in to two quarters. One quarter was included in the initial shipment to BVL Laboratories and the duplicate quarter resubmitted in a later shipment to BVL.

Gold in original sample verse duplicate sample. R^2 is 0.945 due largely to one sample failure. Given the overall low gold values, the one failure is not considered significant.





The duplicates for molybdenum show close correlation and none of the duplicate pairs are considered a failure. The R^2 is 0.989.



Copper duplicate samples show very close correlation at 0.987. There were no failures.

8.0 CONCLUSIONS

None of the drill holes penetrated the high level alteration at Pemberton Hills. The two drill-holes drilled in the eastern part of the alteration zone crossed major faults and entered propylitically altered granitic rocks.

If a porphyry system is present at Pemberton Hills is lies at a depth greater than the depths drilled in this campaign. Based on the observations made during logging core, the strongest clay alteration occurs in the western area of drilling in the area to the south and west of drill holes P18-03, P18-01 and P18-06.

The results of the Induced polarization survey did little to resolve the location of a deep porphyry system. No direct correlation can be made between the chargeable or resistivity values and a location of a possible deeply located porphyry copper system.

9.0 RECOMMENDATIONS

It is recommended that additional deep holes be drilled in the western part of the area of interest. The priority is to complete a hole to at least 500 metres in the vicinity of P18-03 and P18-02a. It is also recommended that a 500 metre deep hole be drilled south of P18-01 and a third hole placed approximately 400 metres to the east-southeast of drill hole P18-02a.

To resolve the enigma of the poor IP response to the pyrite present, bench testing of core samples from this year's program for their physical properties be done.

10.0 STATEMENT of COSTS

Cost Statement for work carried out from 15 February to 28 November, 2018					
Preparatory Work					
	J McClintock		Preparatory work, NOW, contracts, planning	40 hrs at \$125 per hour	\$5,000.00
Field Related					
Wages					
		J McClintock, P. Eng	Supervision IP drilling, logging and data management : 30 June to 28 Nov.	360 hours at \$125 per hour	\$45,000.00
		B Game, P. Geo	Core Logging: 10 Oct to 28 November	46 days @ \$700 per days	\$32,200.00
		B Mcdonald, BSc	Site logistics, set up and demob: 30 June to 15 July, 15 Sept to 20 Oct,	20 days @ \$600 per day	\$12,000.00
Accommodation Port Hardy July, September through 28 Nov.					
\$18,100.86					
Travel / transportation / meals					
\$6,250.98					
Core facility rental/ sanitation / electrical					
\$19,100.86					
Core cutting and drill site clean up/ Ketza Enterprises.					
\$48,802.00					
Equipment rentals: quad, heaters, power tools, sanitation facility etc.					
\$6,543.18					
Groceries					
\$1,100.53					
Truck (three), fuel, maintenance					
\$20,500.98					
Misc. field supplies, PPE, saw baldes, flagging tape etc.					
\$8,300.40					
Drilling charges Dorado Drilling					
\$528,219.33					
Fuel for drill					
\$22,392.78					
Core boxes and transportation					
\$17,500.00					
Analyses BVL Laboratories including freight charges					
\$66,028.00					
Road construction, pads and drill moves North Island Rock Pro					
\$43,679.00					
Communications phone / internet					
\$800.89					
Induced Polarization Survey Walcott and Associates (see Appendix I for details on personel					
\$79,756.06					
G.U.E.S. (802580779BC0001 Ltd.)					
	V Mowatt		5 July to 3 August		\$65,896.77
	T Mowatt		5 July to 3 August; 30 Sep to 2 Oct		
	J Pierre		5 July to 3 August		
	J wilson		5 July to 3 August		
	J Sebastien		5 July to 3 August		
	R Kern		30 Sep to 2 oct		
	J Sebastien		30 Sep to 2 oct		
Report					
	J McClintock				\$2,500.00
	GIS Wolf Bear Geological				\$1,129.52
Total					
\$1,045,802.14					

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- Nixon, G. T., Hammack, J. L., Koyanagi, V. M., Payie, G. J., Haggart, J. W., Orchard, M. J., Tozer, T., Archibald, D. A., Friedman, R. M., Palfy, J., and Cordey, F., 2000,** Geology of the Quatsino-Port McNeill Map Area, Northern Vancouver Island, B.C. Ministry of Energy and Mines Geoscience Map 2000-6.
- Nixon, G. T., Hammack, J. L., Payie, G. J., Snyder, L. D., Koyanagi, V. M., Hamilton, J. V., Panteleyev, A., Massey, N. W. D., Haggart, J. W., and Archibald, D. A., 1997,** Geology of Northern Vancouver Island: Preliminary Compilation, B.C. Ministry of Energy and Mines Open File 1997-13.
- Nixon, G. T., Kelman, M. C., Stevenson, D., Stokes, L. A., and Johnston, K. A., 2006,** Preliminary Geology of the Nimpkish Map Area (NTS 092L/07), Northern Vancouver Island, British Columbia. British Columbia Geological Survey, pp. 135-152.
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- Kesler, S.E. 1985:** Report on Geological Review of the Macintosh – Pemberton Precious Metal Exploration Area. Private Report to BHP-Utah Mines Ltd., June 1985.
- Pawliuk, D.J., 1992:** Assessment Report Diamond Drilling on the WANN Property North Vancouver Island B.C. Assessment Report B.C.D.M. #22374
- Pearson B.D. 1983:** Geology, Petrography, silt and rock geochemistry of Wanda Claims B.C.D.M. Assessment Report March 22, 1983.
- Pearson, D.B. 1987:** Rock and Soil Geochemistry Stat – Wanda Claims March 14, 1987. B.C.D.M. Assessment Report # 15876
- Richards, M. A., Jones, D. L., Duncan, R. A., and DePaolo, D. J., 1991,** A mantle plume initiation model for the Wrangellia flood basalt and other oceanic plateaus: Science, v. 254, p. 263-267.
- Young, M., 1969:** Geological and Geochemical Assessment Report on the Expo Claim Group for Utah Mines Ltd. Assessment Report #2190.

12.0 CERTIFICATION

I, John McClintock, residing at 902 – 1470 Pennyfarthing Drive, Vancouver, British Columbia, do hereby certify that:

1. I am a consulting Geologist;
2. I obtained a BSc (Hons) from the University of British Columbia in 1973 and an MBA from Simon Fraser University in 1989;
3. I have continually practised my profession as a geologist since 1973;
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia registration number 12078;
5. I visited the property from 30 June through 10 Dec, 2018 and am responsible for the work carried out on the property;
6. I own shares and have share options in Northisle Copper and Gold Inc. and am the President of the company.

Dated at Vancouver, British Columbia, 15 February, 2019

Signed and Sealed

John A. McClintock

John McClintock P. Eng

Appendix I
Report by Peter Walcott and Associates

A LOGISTICS REPORT

ON

INDUCED POLARIZATION SURVEYING

**PEMBERTON HILLS PROPERTY
COAL HARBOUR AREA, BRITISH COLUMBIA**

**NANAIMO M.D.
50° 37.8' N, 127° 46.2' W
NTS 94L/12**

Claims Surveyed

513929, 513931, 398335, 516078, 516527

Work Dates

September 25th – October 4th & October 10th – October 15th 2018

for

NORTHISLE COPPER AND GOLD INC.

Vancouver, British Columbia

by

PETER E. WALCOTT & ASSOCIATES LIMITED

**COQUITLAM, BRITISH COLUMBIA
FEBRUARY 2019**

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INTRODUCTION.....	3
PROPERTY, LOCATION AND ACCESS.....	4
SURVEY SPECIFICATIONS.....	7

APPENDIX I

Cost of Survey
Personnel Employed on Project

ACCOMPANYING MAPS

Claim and Line Location Map	Scale 1:20,000
IP Pseudosections L1000N, L1600N, L2300N	Scale 1:20,000
Loke 2D Inverted Sections L1000N, L1600N, L2300N	Scale 1:20,000
Apparent Chargeability Plan Maps Level N2, Level N5	Scale 1:20,000
Apparent Resistivity Plan Maps Level N2, Level N5	Scale 1:20,000

INTRODUCTION.

Between September 25th and October 4th, and between October 10th and October 15th, 2018, Peter E. Walcott & Associates Limited undertook induced polarization surveying over parts of the Pemberton Hills claim group, located in the Coal Harbour area of British Columbia, for Northisle Copper and Gold Inc.

The survey was planned to be conducted on two long traverses oriented at 290° and spaced some 650 metres apart to be established by linecutters contracted by Northisle. However the more northerly one was incomplete and the geophysical crew spent three days finishing cutting it.

Measurements – first to sixth separation – of apparent chargeability – the IP response parameter – and resistivity were made along these traverse lines using the pole-dipole technique utilising a 200 metre dipole.

As a result of the data obtained on these two lines, Lines 1000N and 1600N of lengths 5.0 and 4.4 kilometres respectively, a third line, Line 2300N of length 4.4 kilometres, was added and established by the IP crew in 3 days.

The data from these three traverses are presented as individual pseudo sections at a scale of 1:20,000.

It should be mentioned here that the terrain varied between gentle and extremely steep, with dense bush ubiquitous to most areas, which severely hampered the progress of the work.

PROPERTY LOCATION AND ACCESS.

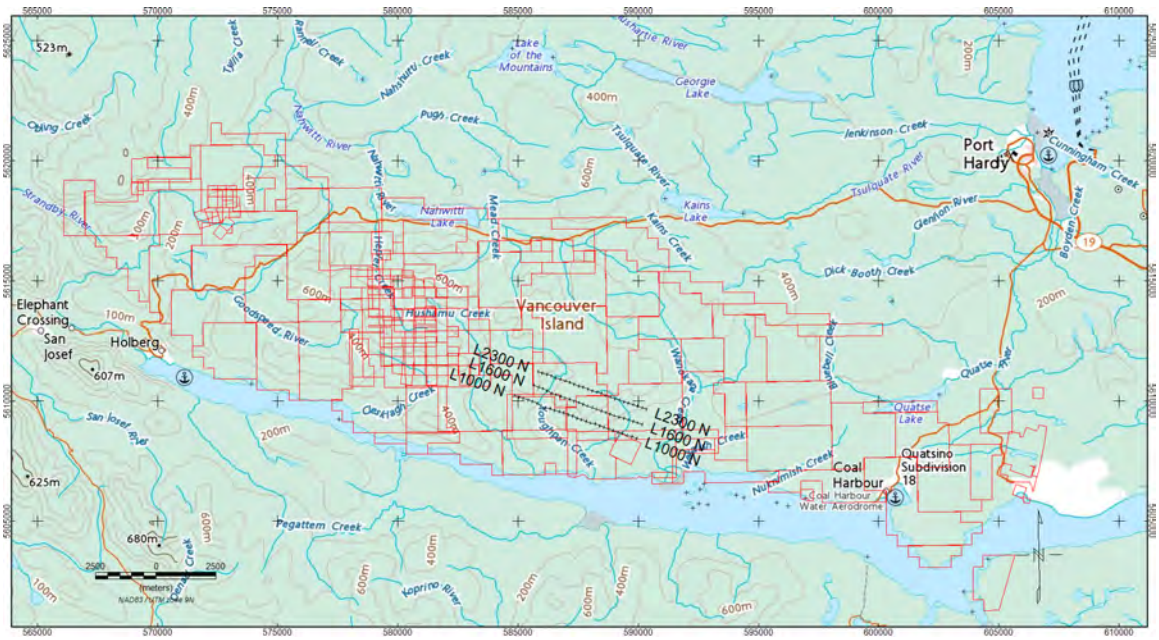
The Pemberton Hills claim group is located at the northern end of Vancouver Island near the community of Coal Harbour and town of Port Hardy, British Columbia.

Access to the survey areas was gained along a network of roads branching from the Coal Harbour Forest Access road.



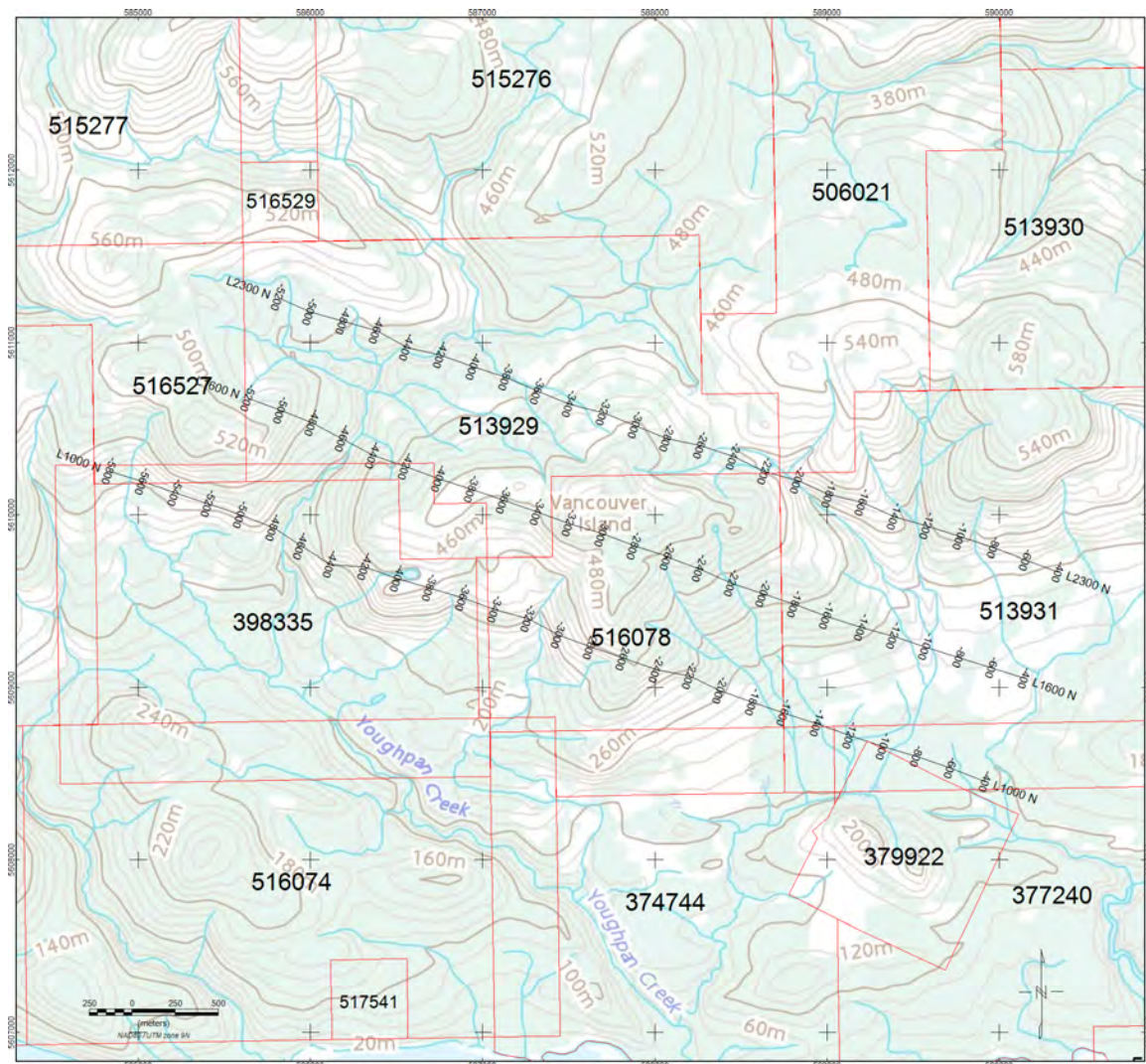
Property Location Map

PROPERTY LOCATION AND ACCESS cont'd.



Claim Map with IP Lines

PROPERTY LOCATION AND ACCESS cont'd.



Claim Map with IP Lines

SURVEY SPECIFICATIONS.

The Induced Polarization Survey.

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Walcer Geophysics Ltd. of Enniskillen, Ontario, and by Instrumentation GDD of St. Foy, Quebec.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Walcer). The transmitter, which provides a maximum of 10.0 kw dc to the ground, obtains its power from a 20 kw 60 cps alternator driven by a Honda 24 hp gasoline engine. The cycling rate of the transmitter is 2 seconds “current-on” and 2 seconds “current-off” with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C₁ and C₂, the primary voltages (V) appearing between any two potential electrodes, P₁ through P₇, during the “current-on” part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the “pole-dipole” method of surveying. In this method the current electrode, C₁, and the potential electrodes, P₁ through P_{n+1}, are moved in unison along the survey lines at a spacing of “a” (the dipole) apart, while the second current electrode, C₂, is kept constant at “infinity”. The distance, “na” between C₁ and the nearest potential electrode generally controls the depth to be explored by the particular separation, “n”, traverse.

On this survey a 200 metre dipole was employed and first to sixth separations readings were obtained. In total some 13.8 kilometres of surveying were completed.

SURVEY SPECIFICATIONS contt'd.

Horizontal and vertical control.

The horizontal and vertical positions of the stations were recorded using a GLONASS equipped Garmin C64 handheld GPS receiver.

Data Presentation.

The I.P. data are presented as an individual pseudo-section plot of apparent chargeability and resistivity at a scale of 1:20,000. Plots of the 21 point moving filter – illustrated on the pseudo section – for the above are also displayed in the top window to better show the location of the anomalous zones.

First pass two dimensional smooth model inversion of the resistivity and chargeability was carried out using the Geotomo RES2DINV Algorithm, an algorithm developed by Loke et-al. This algorithm uses a 2-D finite element method and incorporates topography in modeling resistivity and I.P. data. Nearly uniform starting models are generated by running broad moving-average filters over the respective lines of data. Model resistivity and chargeability properties are then adjusted iteratively until the calculated data values match the observed as closely as possible, given constraints which keep the model section smooth. The smooth chargeability and resistivity models were then imported into Geosoft format for presentation at the same scale of 1:20,000 on the topographic profile. A slight discrepancy can be observed between the measured and modeled plots as the former are processed in Geosoft which assumes horizontal distances for the station separation.

APPENDIX I

COST OF SURVEY.

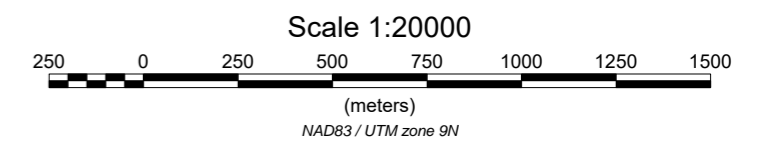
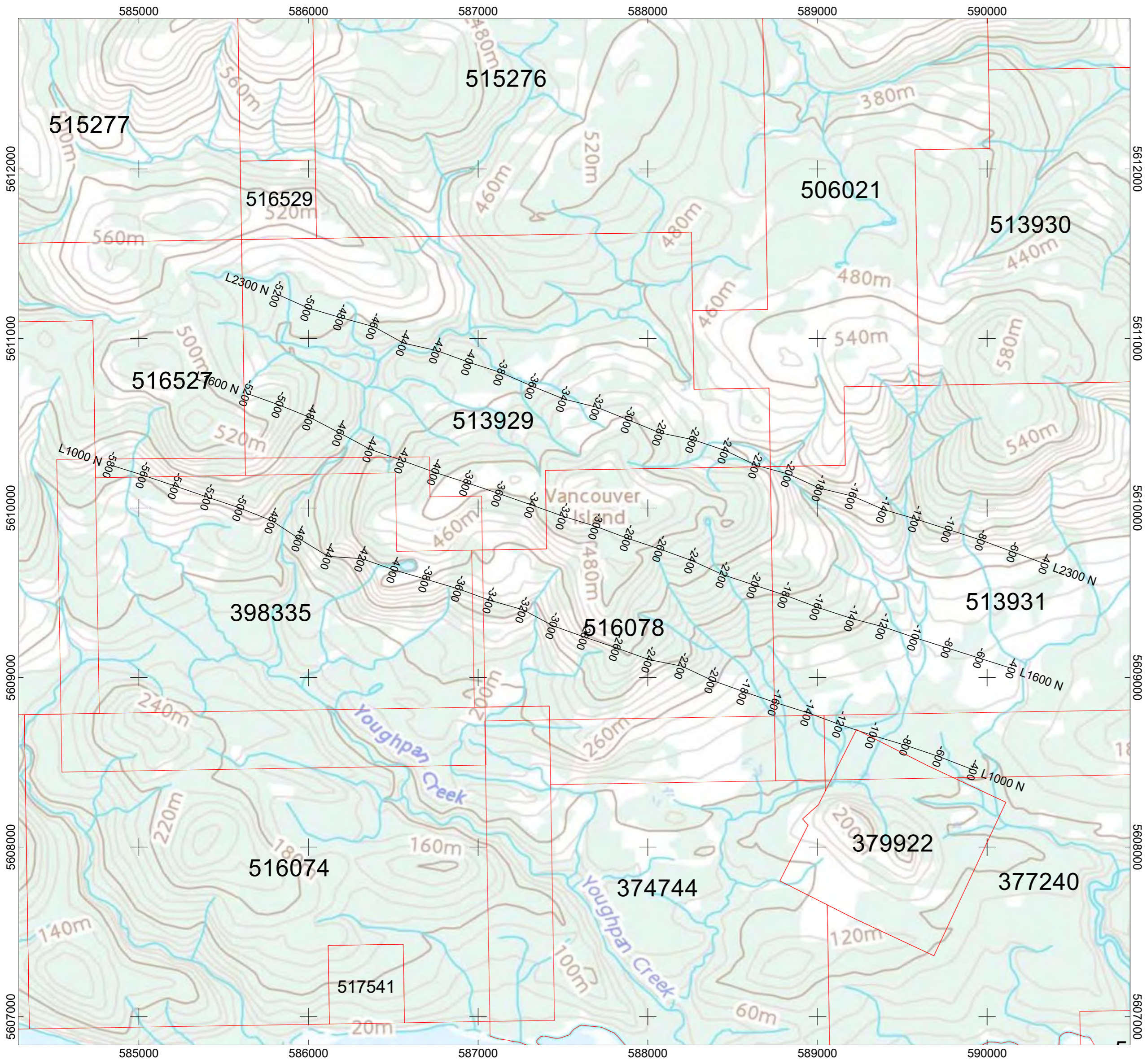
Peter E. Walcott & Associates Limited undertook the survey on a daily rate providing a 2 geophysicists, an operator, four helpers, a time domain induced polarization system, and auxiliary equipment at \$4,350.00 per day.

Two 4x4 vehicles were provided at \$170.00 per unit.

A mobilization cost of \$8,000 along with fuel, accommodations and incidentals costs of \$7,726.06 made the total costs of services provided \$79,756.06.

PERSONNEL EMPLOYED ON PROJECT.

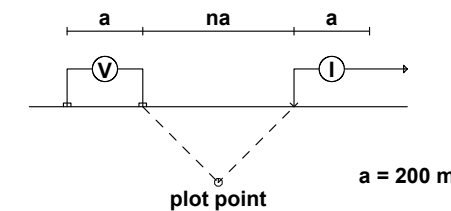
Name	Occupation	Address	Dates Worked
Marek Welz	Geophysicist	17-111 Fawcett Road, Coquitlam, B.C.	Sep 26 th - Oct 5 th Oct 10 th - Oct 15 th ,2018
Patrick Young	“	“	Sep 25 th - Oct 5 th Oct 10 th - Oct 15 th ,2018
Nicolas Loubser	Geophysical Operator	“	“
Bruce Lajeunesse	Geophysical Assistant	“	“
Brendan Hall	“	“	“
Mathew Bruce	“	“	“
Marilyne Bizier	“	“	Sep 25 th - Oct 4 th



NORTHISLE COPPER AND GOLD INC.
INDUCED POLARIZATION SURVEY PEMBERTON PROJECT
IP LINE LOCATION MAP FEBRUARY 2019
PETER E. WALCOTT & ASSOCIATES LIMITED

10+00 N

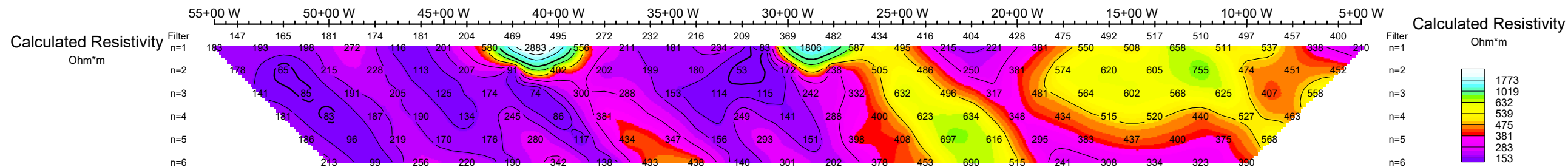
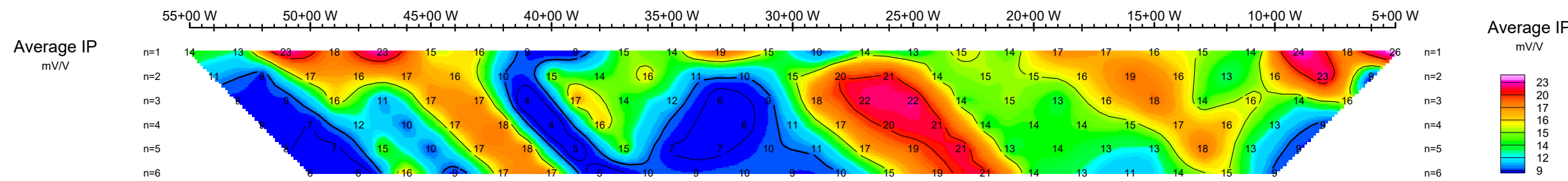
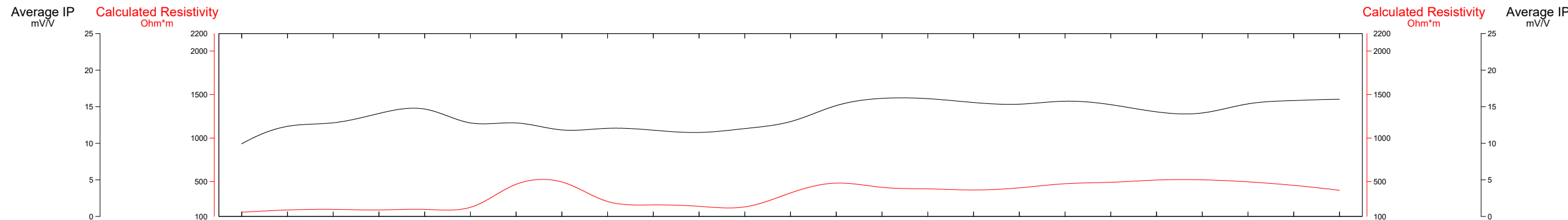
Dipole-Pole Array



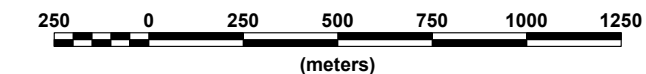
Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., N.L., B.L., M.B.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...



Scale 1:20000



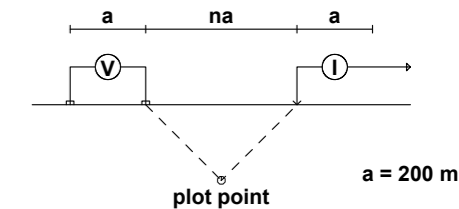
NORTHISLE COPPER AND GOLD INC.
INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT

Date: FEBRUARY 2019
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

16+00 N

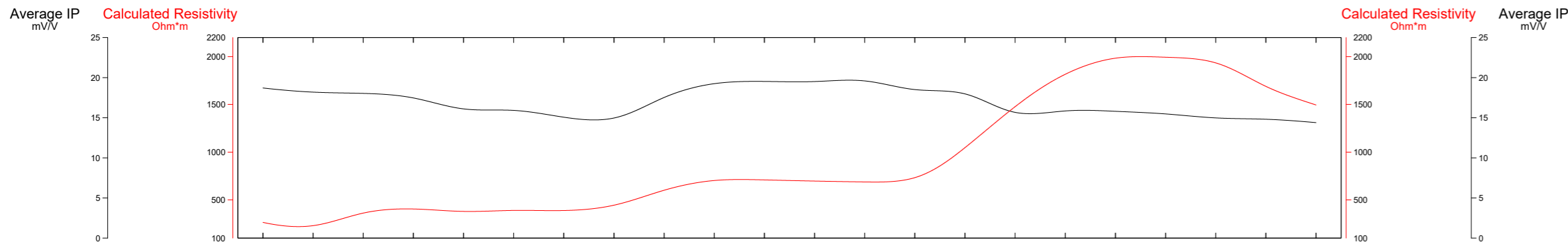
Dipole-Pole Array



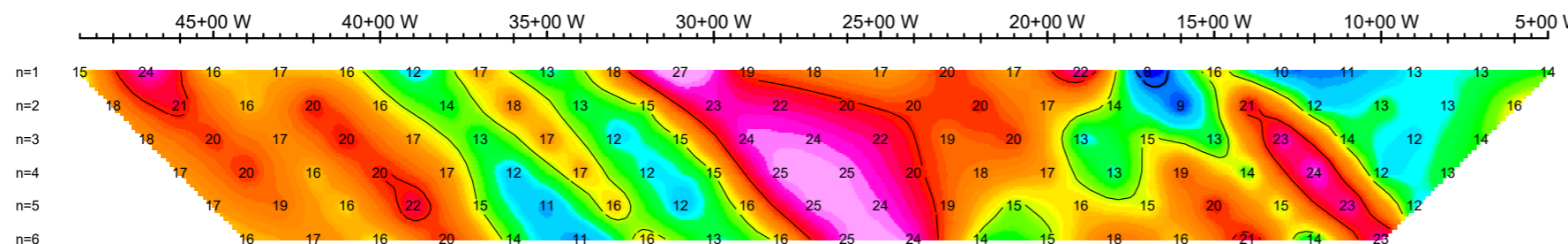
Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., N.L., B.L., M.B.

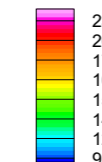
Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...



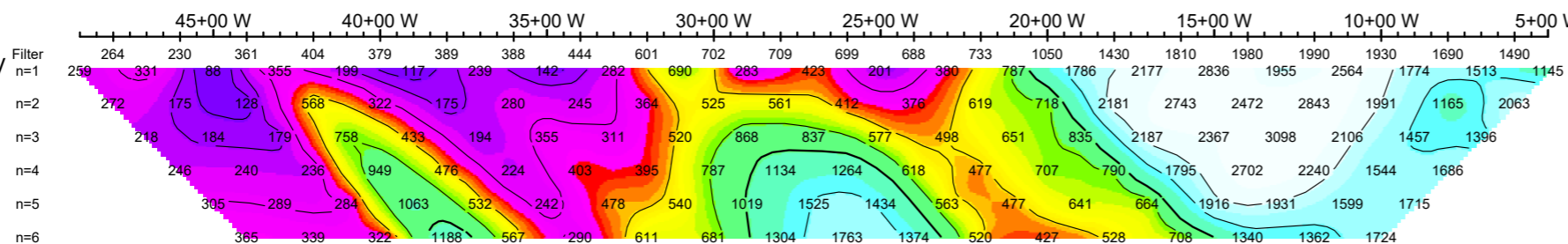
Average IP
mV/V



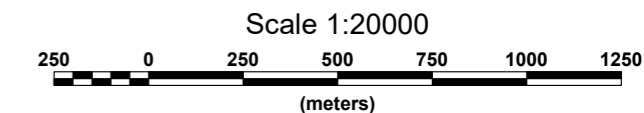
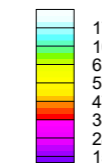
Average IP
mV/V



Calculated Resistivity
Ohm*m



Calculated Resistivity
Ohm*m



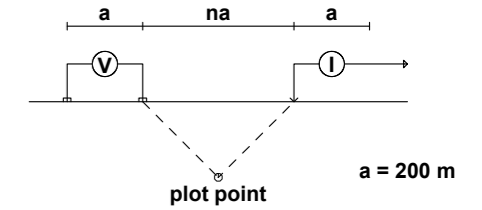
NORTHISLE COPPER AND GOLD INC.
INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT

Date: FEBRUARY 2019
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

23+00 N

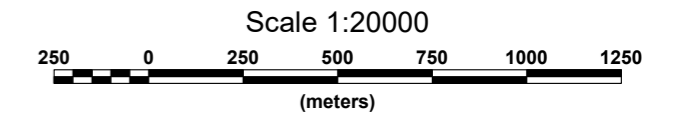
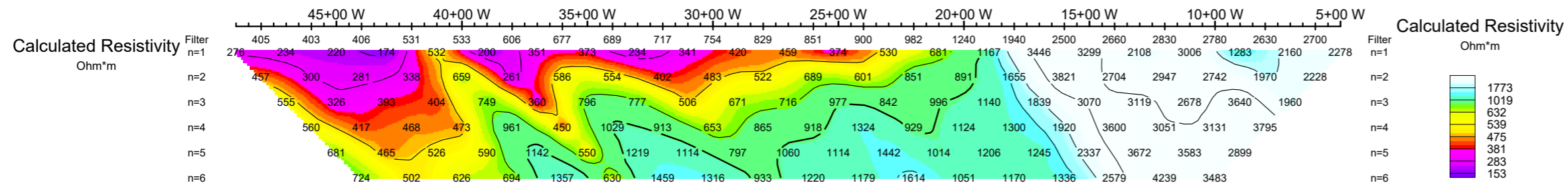
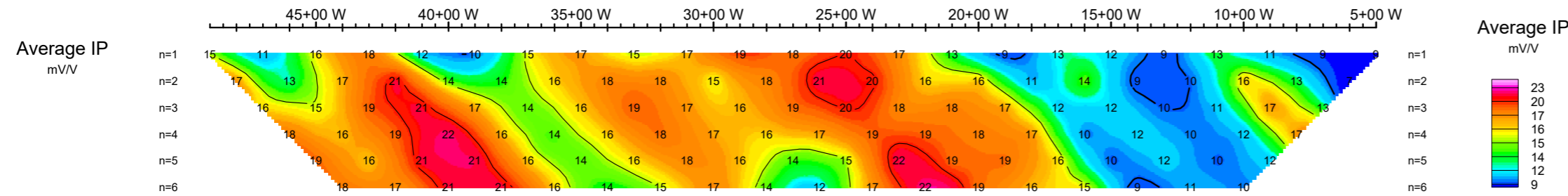
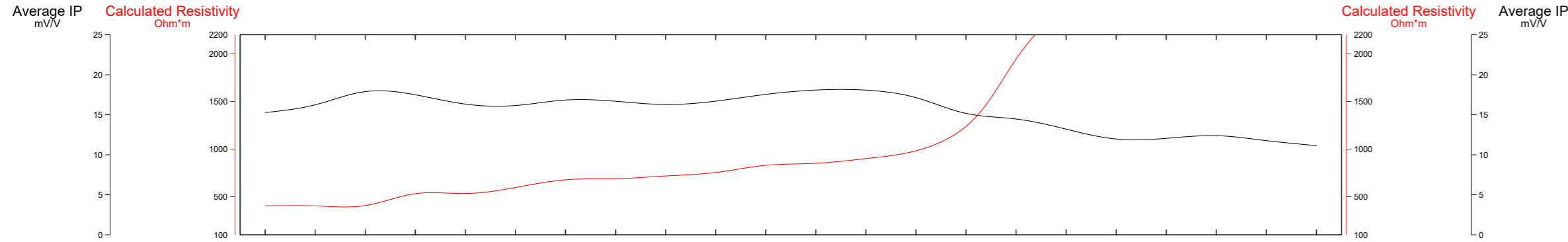
Dipole-Pole Array



Instruments: Walcer 10.0 kW Tx
GDD 8 Rx

Frequency: 0.125 Hz.
Operators: M.W., N.L., B.L., M.B.

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...



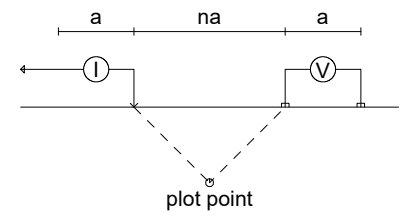
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PEMBERTON PROJECT

Date: FEBRUARY 2019
Interpretation:

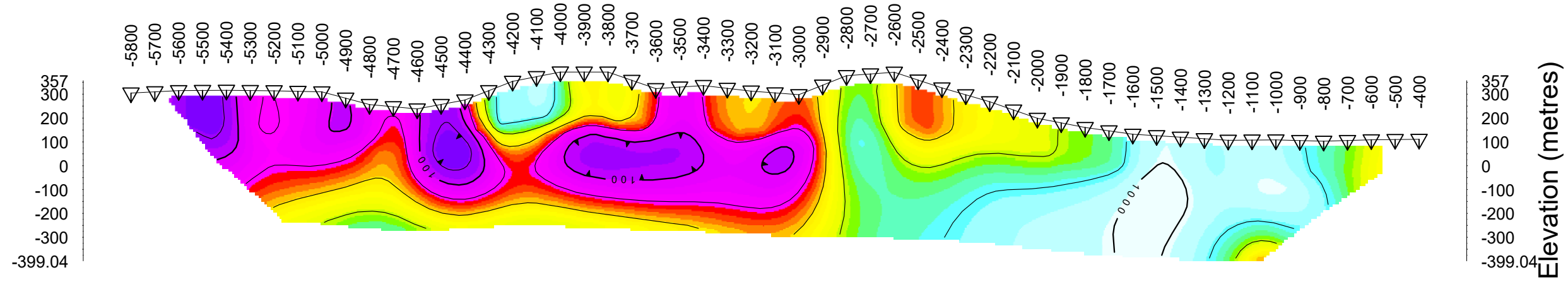
PETER E. WALCOTT & ASSOCIATES LIMITED

Line_1000N

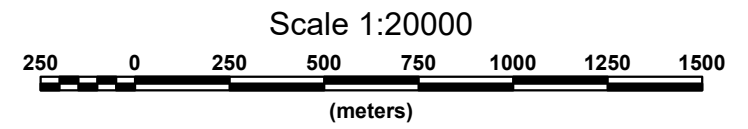
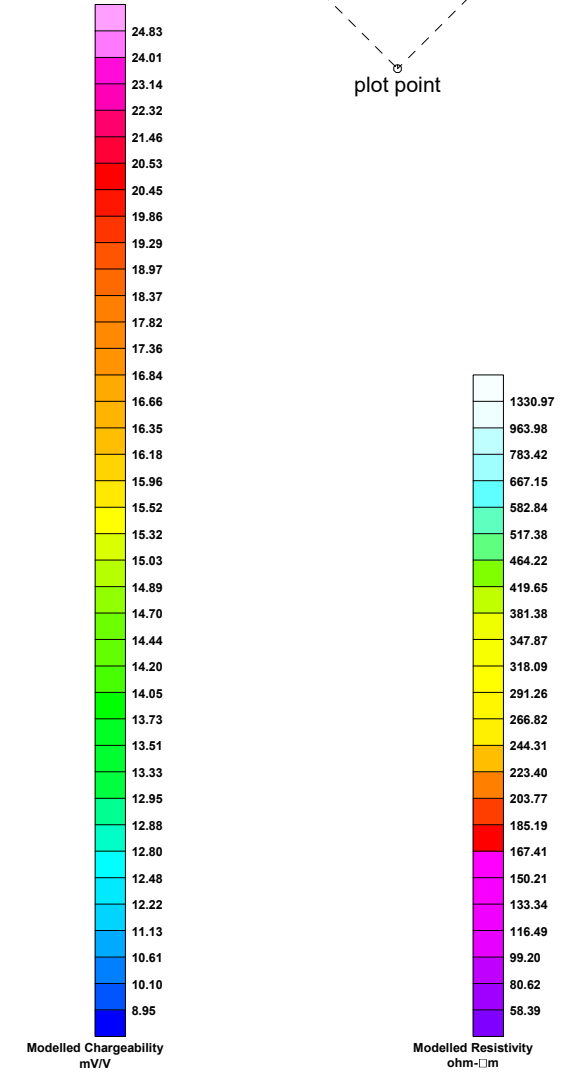
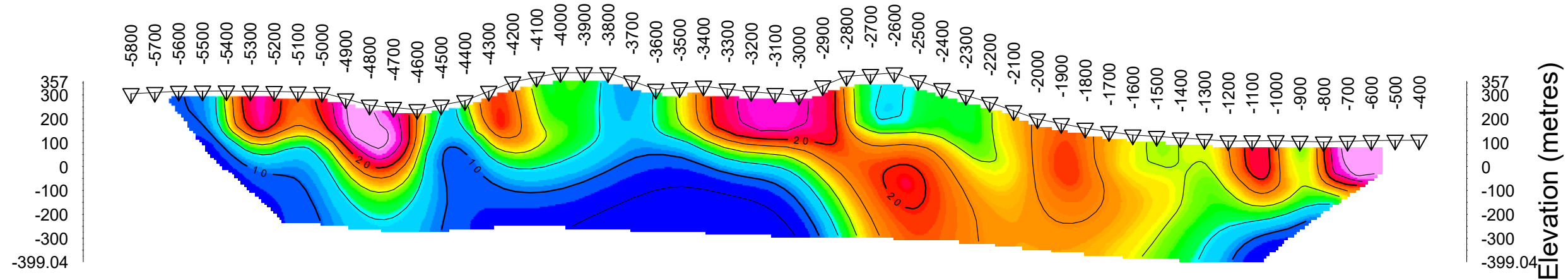
Pole-Dipole Array



Modelled Resistivity (Ohm-m)



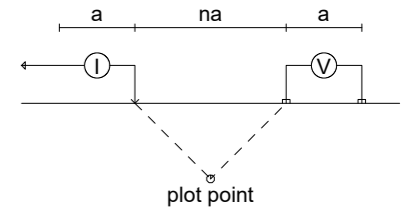
Modelled Chargeability (mV/V)



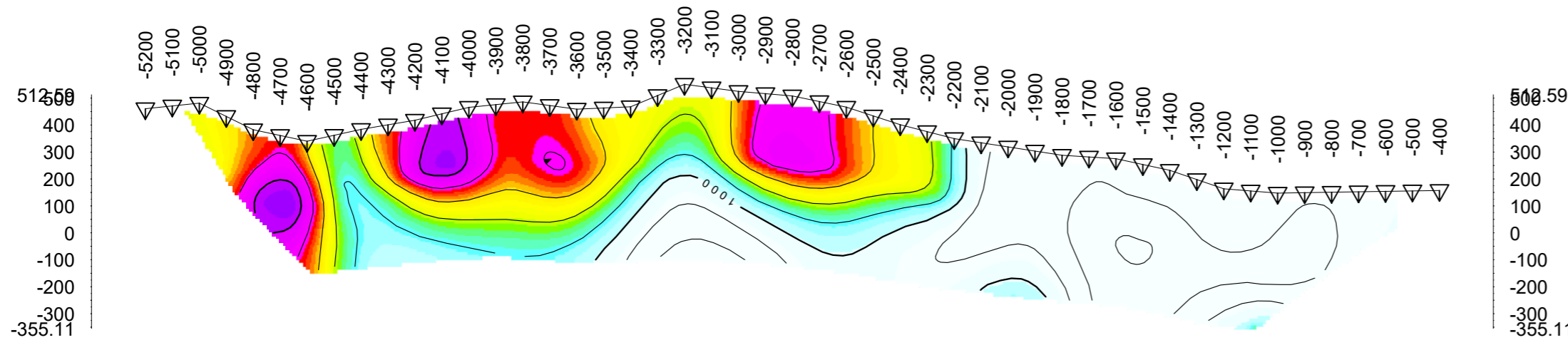
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INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT
Date: FEBRUARY 2019
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

Line_1600N

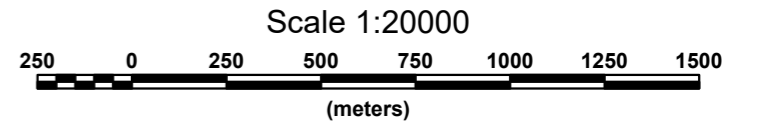
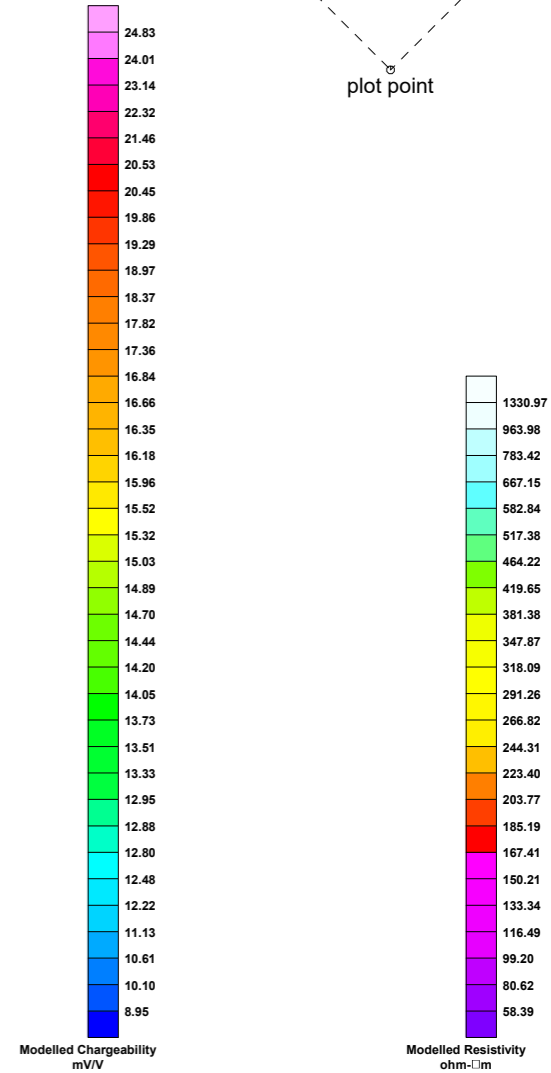
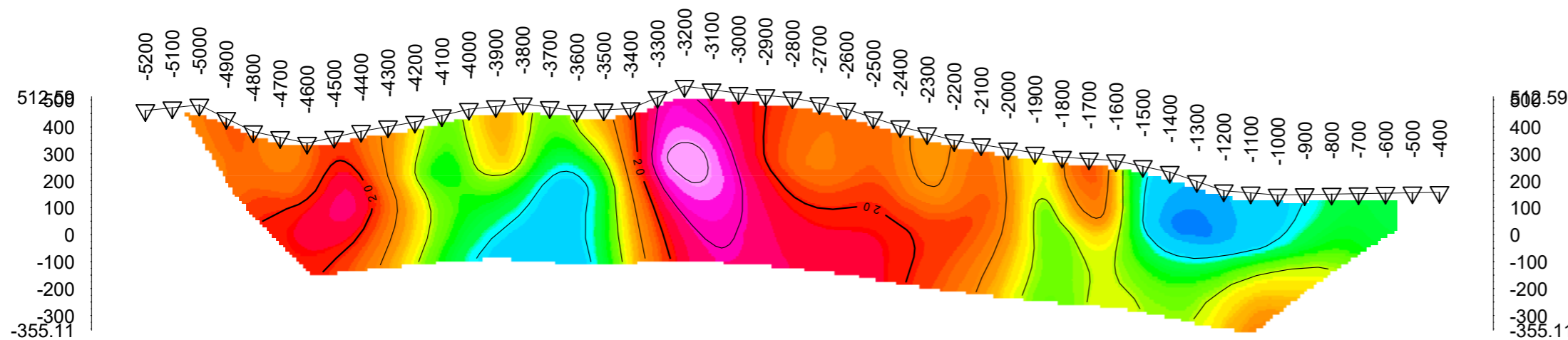
Pole-Dipole Array



Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)



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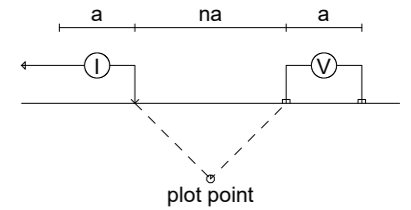
INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT

Date: FEBRUARY 2019
RES2DINV

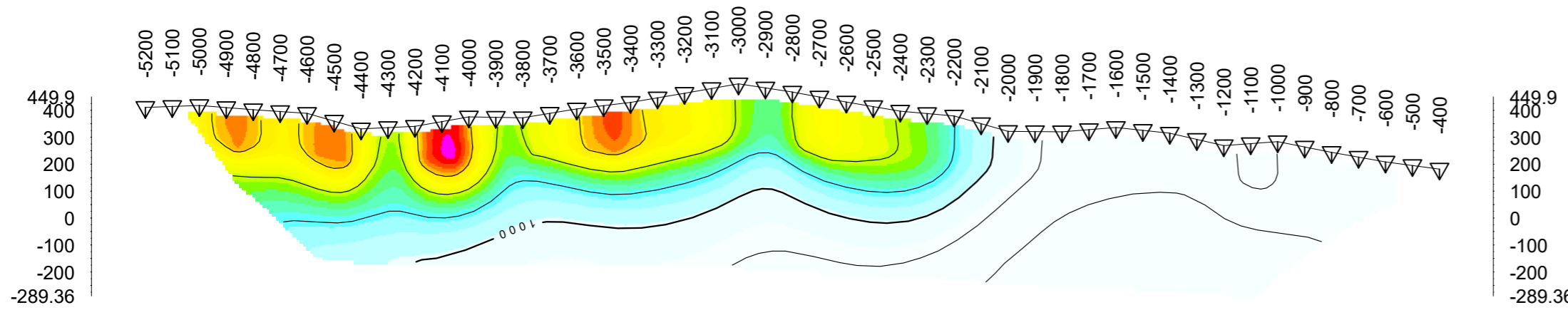
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

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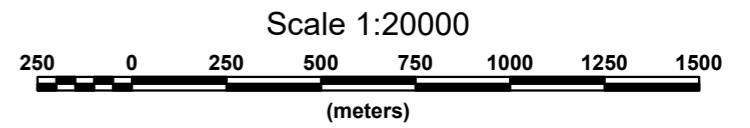
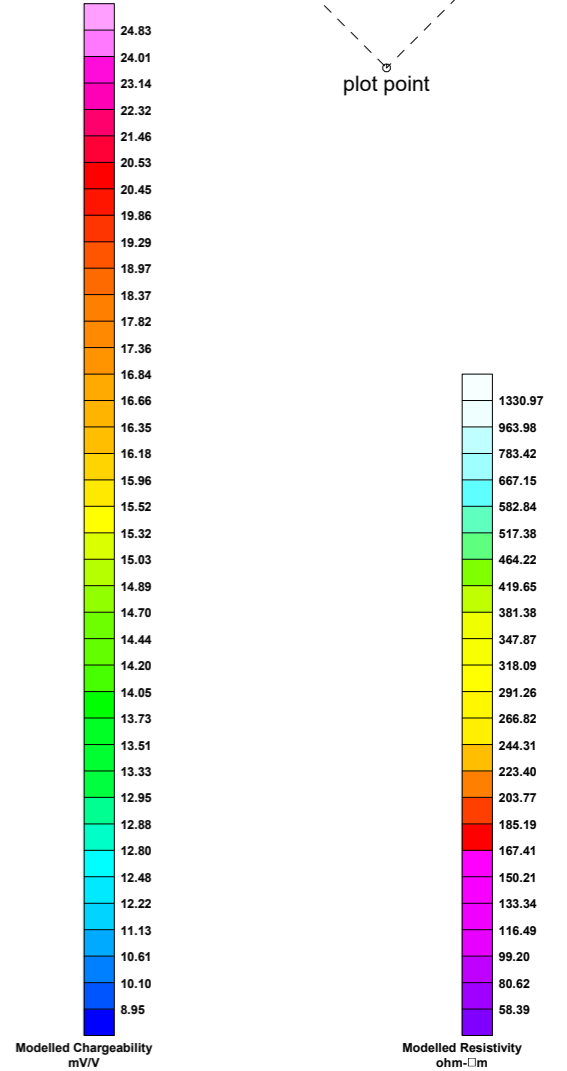
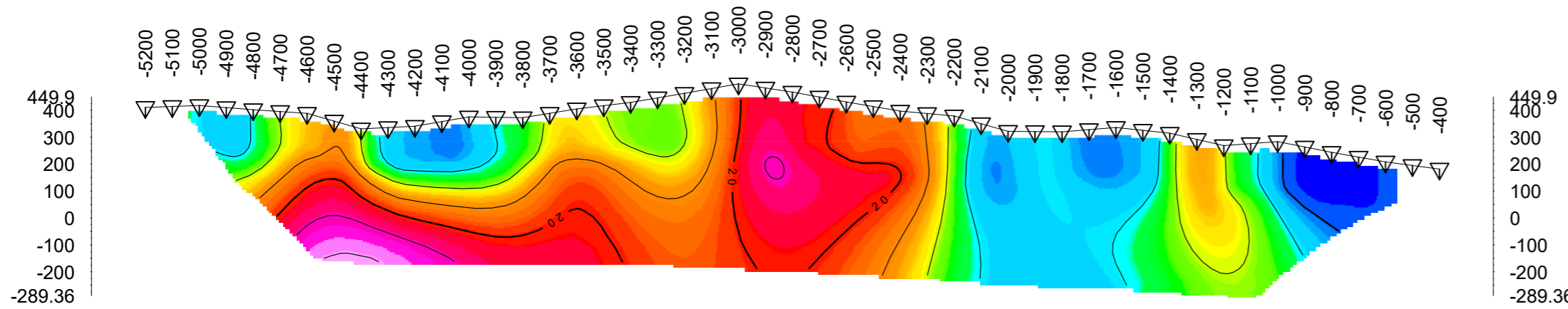
Pole-Dipole Array



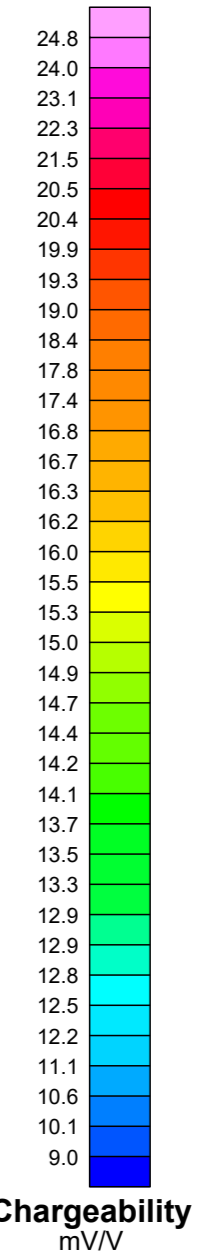
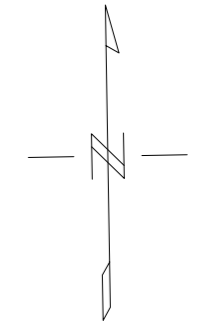
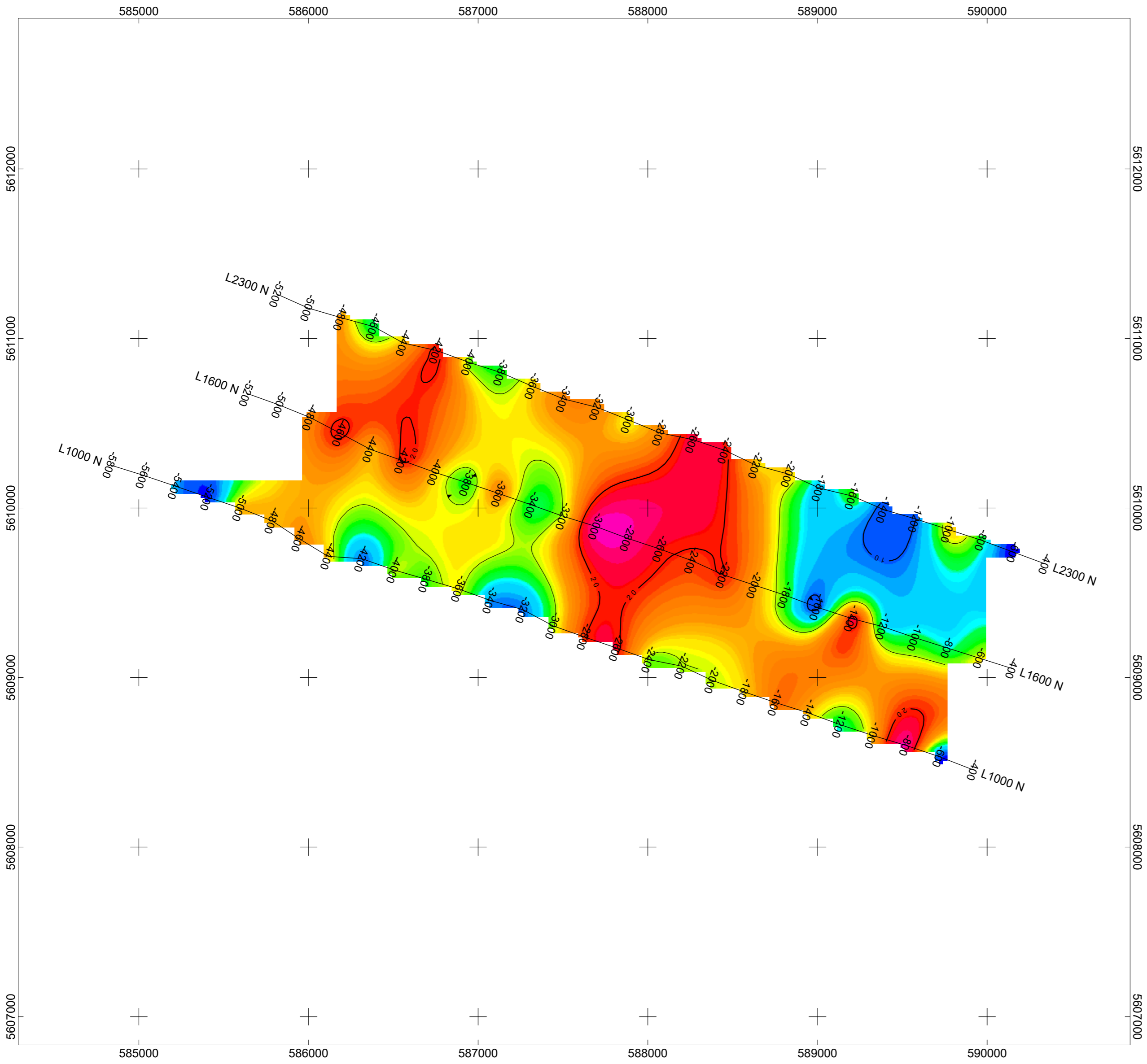
Modelled Resistivity (Ohm-m)



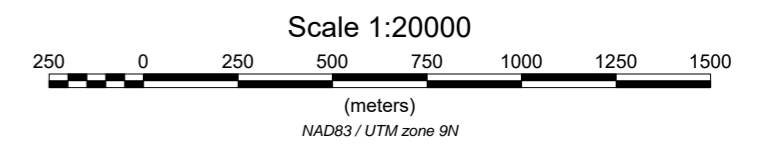
Modelled Chargeability (mV/V)



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PEMBERTON PROJECT
 Date: FEBRUARY 2019
 RES2DINV
 Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED



Chargeability
mV/V

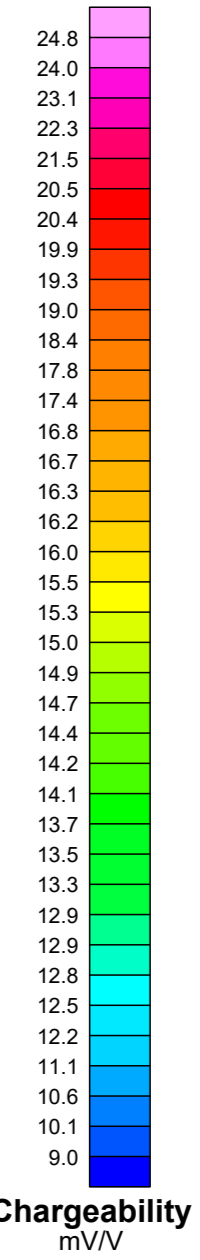
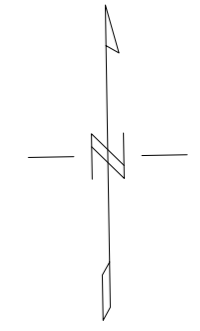
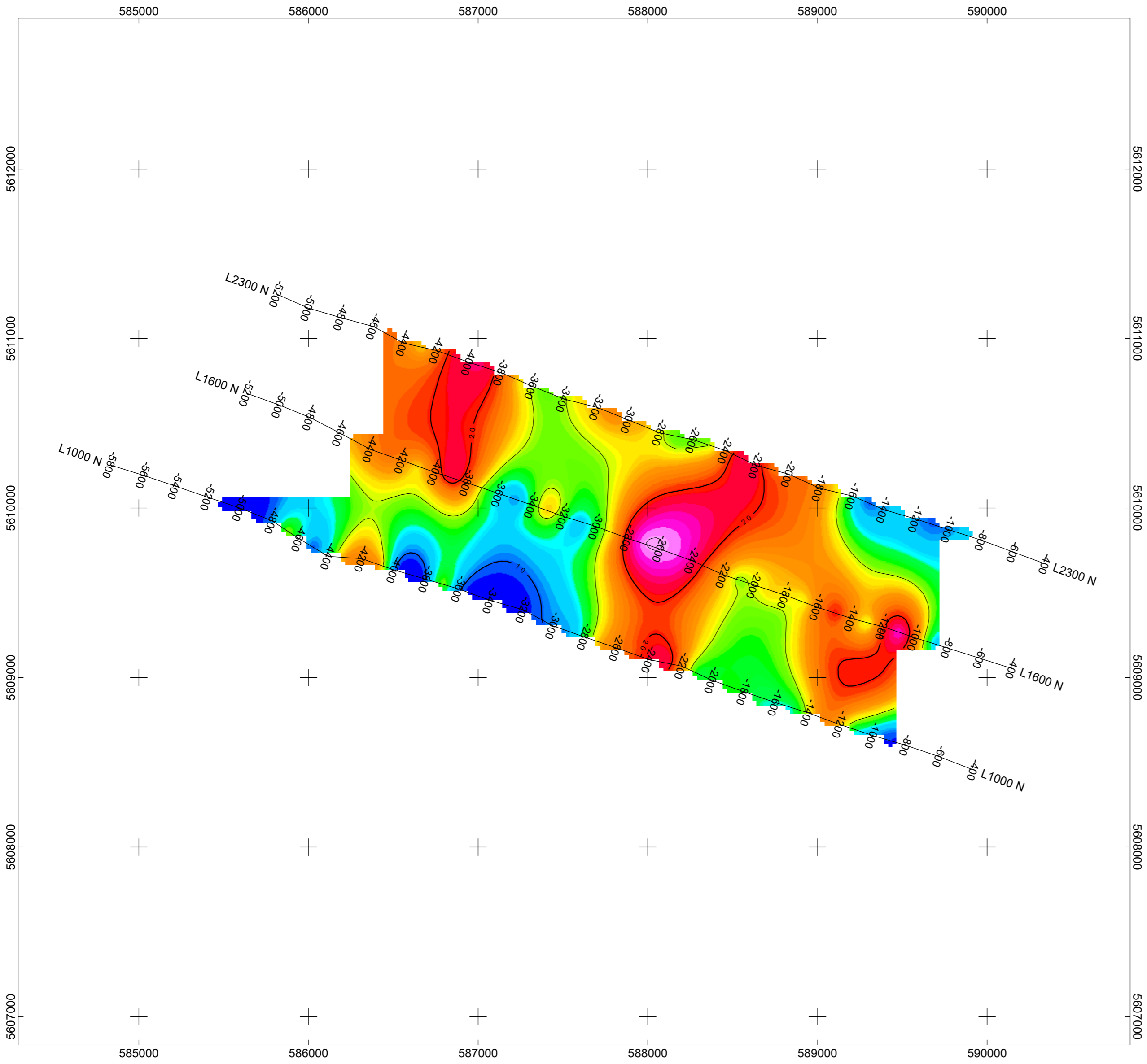


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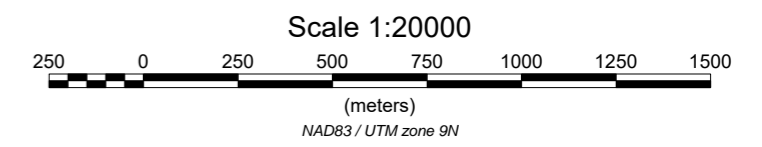
**INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT**

CONTOURS OF APPARENT CHARGEABILITY
LEVEL N 2
FEBRUARY 2019

PETER E. WALCOTT & ASSOCIATES LIMITED



Chargeability
mV/V

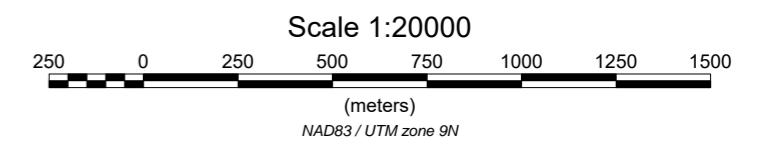
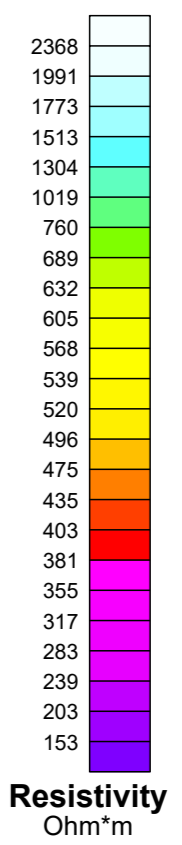
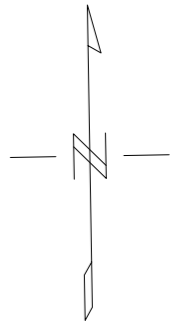
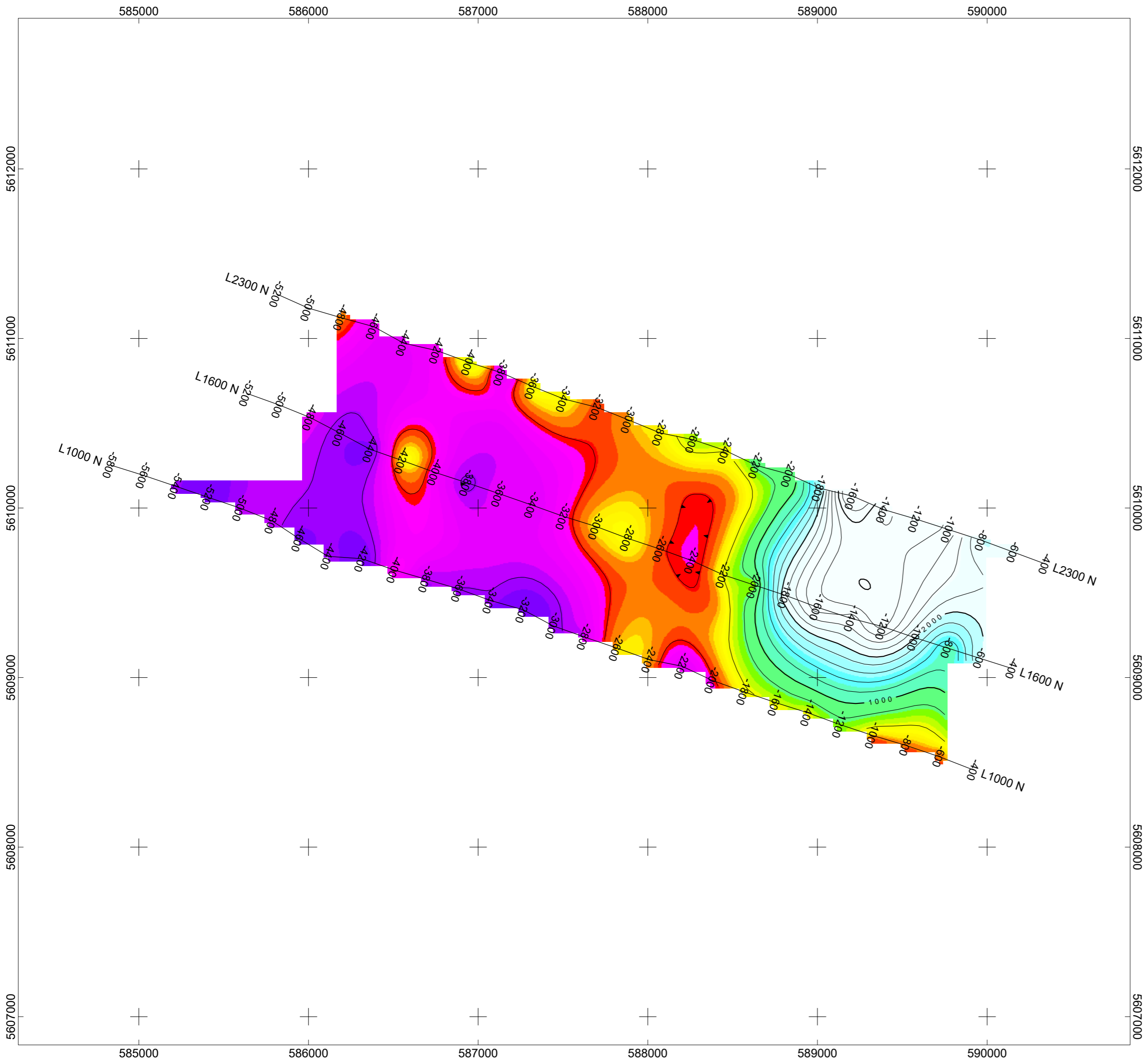


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**INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT**

CONTOURS OF APPARENT CHARGEABILITY
LEVEL N 5
FEBRUARY 2019

PETER E. WALCOTT & ASSOCIATES LIMITED

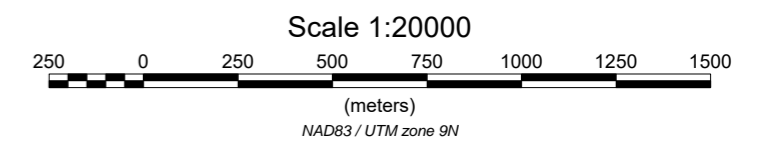
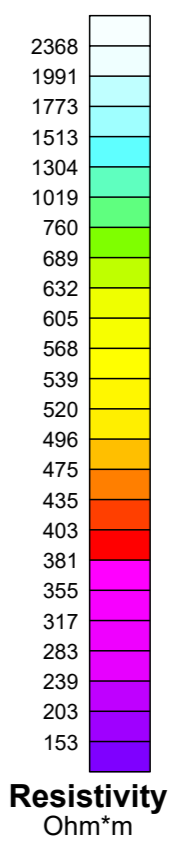
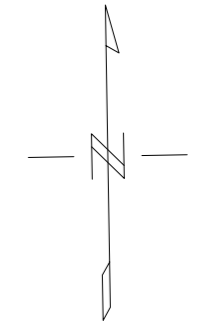
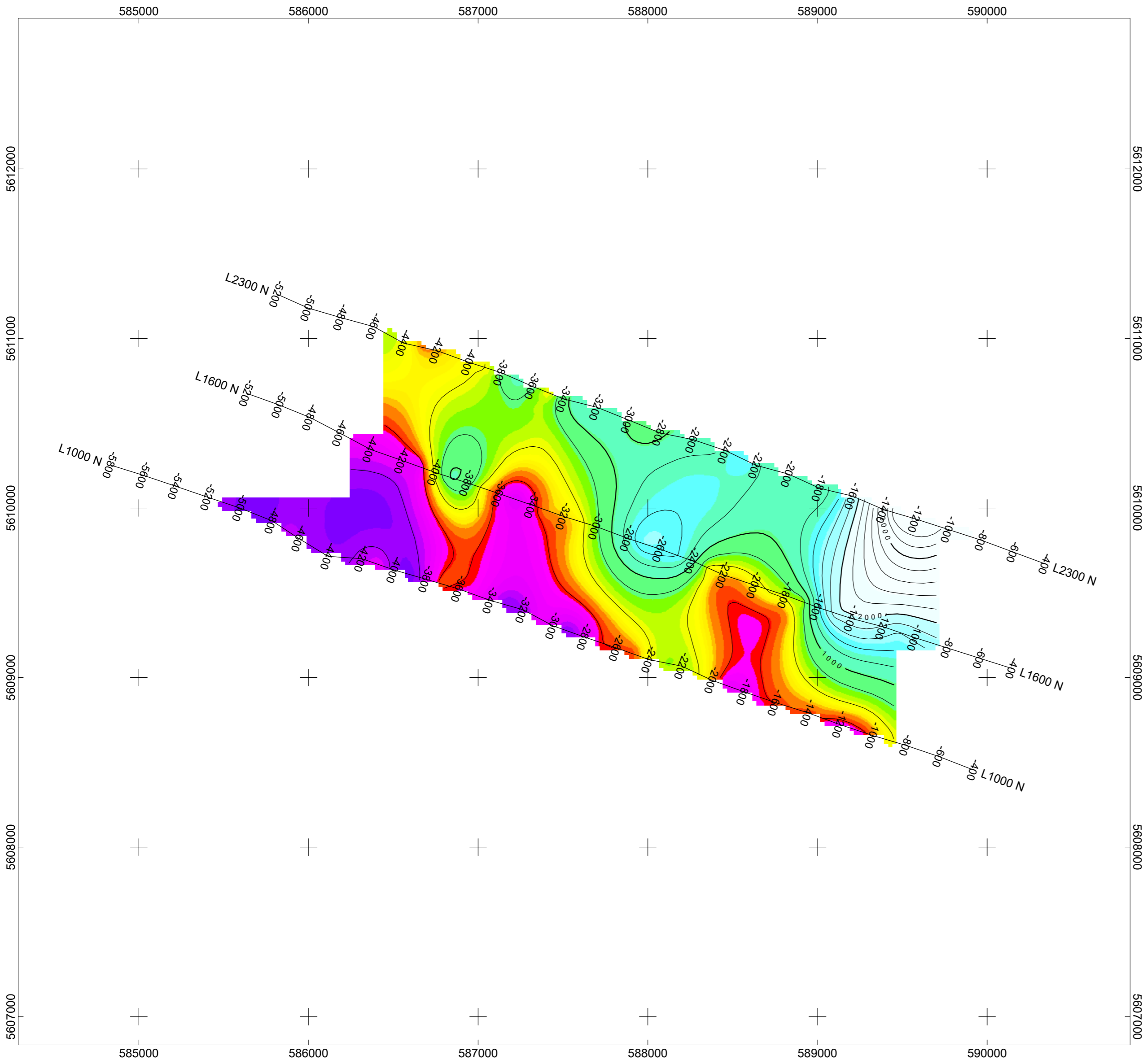


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**INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT**

CONTOURS OF APPARENT RESISTIVITY
LEVEL N 2
FEBRUARY 2019

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**INDUCED POLARIZATION SURVEY
PEMBERTON PROJECT**

CONTOURS OF APPARENT RESISTIVITY
LEVEL N 5
FEBRUARY 2019

PETER E. WALCOTT & ASSOCIATES LIMITED

Appendix II
Drill Logs



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P 18-01

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	07/10/2018
Easting:	586696	Azimuth:	20	Date Completed:	15/10/2018
Northing:	5609769	Dip:	-70	Drill Company:	Dorado
Elevation (m):	419	Length (m):	471.6	Drill Rig:	Unknown
Hole Type:	DD			Drill Started:	07/10/2018
Hole Diameter:				Drill Completed:	15/10/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input checked="" type="checkbox"/>	Hole lost at 471.6 when bit and shell were lost while trying to reem to the bottom of the hole. HQ bit and core barrel lost in the hole at 280 metres. No survey due to lost materials in hole			
Casing Depth (m):					

Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
1.00	55.00	ANTF Tuffaceous Andesite buff	1.00	3.00	N256651	0.003	130.1	35.8	6.2	1.344
<p>1 - 55: Hetroolithic breccia likely of primary origin with frags to 6cm including pervasively silicified (silica cap) rounded fragments. Most fragments are subrounded with lesser subangular. Intense clay alteration with patchy pervasive silicification. Parts of the interval may be a hydrothermal breccia, intensity of the alteration makes it difficult to confirm rock type.</p>										
<<Min: 1 - 12: 10% pyrite / 3% goethite>> Pyrite mainly disseminated with lesser wispy veins.			3.00	5.00	N256652	0.004	119.4	19	3.6	0.192
<<Min: 12 - 24: 5% pyrite / 4% goethite>>			5.00	7.00	N256653	0.003	112.5	7.4	5.9	0.101
<<Min: 24 - 30: 10% pyrite / 1% goethite>>			7.00	9.00	N256654	0.004	138.7	4.9	10	0.029
<<Min: 30 - 35: 2% pyrite / 5% goethite>>			9.00	11.00	N256655	0.005	125.3	3.2	10	0.044
<<Min: 35 - 52: 8% pyrite / 0.5% goethite>>			11.00	13.00	N256657	0.004	120.6	4.6	9.3	0.04
<<Min: 52 - 66.5: 8% pyrite>>			13.00	15.00	N256658	0.004	124.6	2.9	8.5	0.041
<<Alt: 1 - 39: moderate to strong Silica-Clay-Py>> Pervasive clay and pyrite alteration. Silicification weaker and patchy			15.00	17.00	N256659	0.004	110.8	4	6.3	0.034
<<Alt: 39 - 42.3: moderate to strong Silica-Clay-Py>> Dickite in veinlets			17.00	19.00	N256660	0.005	53.2	4.7	0.4	0.006
<<Alt: 42.3 - 123: moderate to strong Silica-Clay-Py>>			19.00	21.00	N256661	0.004	76.6	4.1	3.9	0.038
<<Vein: 1 - 103.1: 2% Pyrite>> Whispy vfg pyrite veins			21.00	23.00	N256662	0.008	52.4	5.8	1.5	0.009
<<Struc: 5.2 - 5.3: strong Gouge 70 deg. >>			21.00	23.00	N256663	0.007	48.8	4.9	1.6	0.01
<<Struc: 31.5 - 32.8: moderate to strong Brittle Fracture 50 deg. >>			23.00	25.00	N256664	0.006	90.2	3.9	5.3	0.06
			25.00	27.00	N256665	0.005	110.9	4.8	6.3	0.105
			27.00	29.00	N256666	0.007	121.3	6.2	6.6	0.126

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P 18-01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			29.00	31.00	N256667	0.009	113.3	10.3	4.9	0.072
			31.00	33.00	N256668	0.007	35.7	10.3	0.2	0.023
			33.00	35.00	N256670	0.011	77.4	7.8	0.9	0.012
			35.00	37.00	N256671	0.012	216.8	3.4	4.5	0.029
			37.00	39.00	N256672	0.009	132.8	3.7	4.1	0.023
			39.00	41.00	N256673	0.01	87.8	1.4	1.9	0.036
			41.00	43.00	N256674	0.014	126.7	4.6	4.8	0.165
			43.00	45.00	N256676	0.007	191.2	6.2	7.5	0.138
			45.00	47.00	N256677	0.009	213.8	5.4	9.3	0.071
			47.00	49.00	N256678	0.007	169.4	5.4	8.2	0.046
			49.00	51.00	N256679	0.007	149.4	6.5	9.5	0.162
			51.00	53.00	N256680	0.004	86	6.9	7.1	0.163
			53.00	55.00	N256682	0.007	142.3	16	9.2	0.333
55.00	58.20	BRXX Late, angular Breccia (+/- zunyite)								
			55.00	57.00	N256683	0.008	101.1	16.7	6.7	0.1
55 - 58.2: Late breccia cross cutting above unit. Rounded pebbles of a variety of rock types. Contacts are sharp. No zunyite present, dickite noted in some frags and in matrix. Pyrite through out both as disseminated in clasts and in matrix.										
			57.00	59.00	N256684	0.006	127.7	8.4	8	0.17
58.20	66.50	ANTF Tuffaceous Andesite								
			59.00	61.00	N256685	0.007	187.6	21.1	7.3	0.139
58.2 - 66.5: As at 1 to 55 metres. Intensely clay altered breccia of likely hydrothermal origin. Pyrite as wispy veins and disseminations through out. Silicification as patchy sections through out.										
			59.00	61.00	N256686	0.007	191.5	24.7	7.4	0.302
			61.00	63.00	N256687	0.006	152.9	6.9	7.2	0.044
			63.00	65.00	N256688	0.008	107	20.6	8.4	0.222
			65.00	67.00	N256689	0.013	88.2	26.8	5.9	0.07
66.50	94.77	HTBX Hydrothermal breccia/alterite								
			67.00	69.00	N256690	0.015	85.4	19.9	3.4	0.202
66.5 - 94.77: Pitted to vuggy subangular breccia of hydrothermal origin. Sharp contacts with the above unit and is cross cutting. Matrix is siliceous. Vugs appear to be either washed out clay or leached pyrite, although there is no limonite in the vugs.										
<<Min: 66.5 - 86: 5% pyrite / 3% goethite>>										
<<Min: 86 - 98: 1% pyrite>>										
<<Struc: 86 - 86.1: strong Gouge 65 deg. >>										
			69.00	71.00	N256691	0.013	100.8	23.6	3	0.747
			71.00	73.00	N256692	0.013	105.7	21.8	3.4	0.63
			73.00	75.00	N256693	0.019	65.3	34	3.5	0.252
			73.00	75.00	N256694	0.02	76.5	30.2	4.3	0.29

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			75.00	77.00	N256695	0.04	139.8	16.9	8.8	0.172
			77.00	79.00	N256696	0.028	86.3	19.7	3.2	0.087
			79.00	81.00	N256697	0.01	50.2	19.6	2.1	0.054
			81.00	83.00	N256698	0.017	77	23.1	4.5	0.086
			83.00	85.00	N256699	0.018	90.1	29.9	4	0.071
			85.00	87.00	N256700	0.014	122	26.8	5.6	0.104
			87.00	89.00	N255151	0.012	120.1	16.8	3.9	0.047
			89.00	91.00	N255152	0.012	147.1	13.7	4.7	0.043
			91.00	93.00	N255153	0.016	102.5	15.1	2.8	0.092
			93.00	95.00	N255154	0.012	72	7.4	1.8	0.043
94.77	96.40	BRXX Late, angular Breccia (+/- zunyite)								
94.77 - 96.4: Late breccia cross cutting the HTBX above.										
			97.00	99.00	N255158	0.012	123.4	26.5	6.4	0.034
96.40	102.50	HTBX Hydrothermal breccia/alterite								
96.4 - 102.5: Hydrothermal breccia, no vugs. Both upper and lower contacts are sharp. Pervasive clay alteration and pyritization through out. Mainly disseminations lesser wispy veins.										
<<Min: 98 - 122: 5% pyrite>>										
			99.00	101.00	N255159	0.015	60.9	22.5	3.9	0.028
			101.00	103.00	N255160	0.01	66.4	36.6	5.5	0.847
102.50	122.40	ANTF Tuffaceous Andesite								
102.5 - 122.4: Tuff breccia with frags to 8cm. Intense clay alteration with pyrite as disseminations and wispy veins. From 117 is a fault zone at 40 degrees to core axis (CA).										
<<Min: 122 - 132: 5% pyrite / 5% magnetite>> Magnetite is mainly disseminated minor stringers.										
<<Vein: 103.1 - 105.1: 2% Pyrite>> Flourite veining										
<<Vein: 105.1 - 122: 2% Pyrite / 1% Magnetite>>										
<<Vein: 122 - 192: 1% Pyrite / 2% Calcium carbonate/Carbonate>>										
<<Struc: 102.5 - 102.51: intense Contact 70 deg. >>										
<<Struc: 109.5 - 112: moderate to strong Fault Zone 40 deg. >>										
<<Struc: 117 - 122: moderate to strong Fault Zone 45 deg. >>										
			105.00	107.00	N255163	0.009	110.3	21	5.8	0.431
			107.00	109.00	N255164	0.006	93.8	19.5	5.6	0.316
			109.00	111.00	N255165	0.008	104.1	7.6	6.6	0.116
			111.00	113.00	N255166	0.004	86.8	6.7	4.2	0.045
			113.00	115.00	N255168	0.003	80	3.7	3	0.023
			115.00	117.00	N255169	0.003	77.4	4.4	4.2	0.037
			117.00	119.00	N255170	0.006	118.7	20	5.8	0.72
			119.00	121.00	N255171	0.006	109.4	30.4	3.7	0.567
			121.00	123.00	N255172	0.011	140.3	66.5	2.9	0.291
			121.00	123.00	N255173	0.009	119.4	70.1	2.8	0.27

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
122.40	123.00	HTBX Hydrothermal breccia/alterite buff								
122.4 - 123: Cross cuts unit above and below. With in a major fault zone of mixed gouge and rubble. Avera angle to CA is 40 degrees.										
123.00	126.00	ANTF Tuffaceous Andesite green	123.00	125.00	N255174	0.012	130.6	25.6	2.6	0.655
123 - 126: As above. Fault zone persists to lower contact.										
<<Alt: 123 - 132: weak to moderate Silica-Clay-Py / moderate Chlorite-Magnetite (+/- Si)>> Overprinted CMG by SCP. Chlorite replacing original mafic metrols as is disseminated magnetite.										
<<Struc: 124 - 125: moderate to strong Fault Zone 45 deg. >>										
126.00	127.50	HTBX Hydrothermal breccia/alterite buff	127.00	129.00	N255176	0.009	175.3	58.1	0.7	0.467
126 - 127.5: As above, local gouge and rubble all at 40 degrees to CA.										
<<Struc: 126 - 126.5: moderate Fault Zone 45 deg. >>										
127.50	138.70	ANTF Tuffaceous Andesite green	129.00	131.00	N255177	0.007	145.3	20.8	1.5	0.138
127.5 - 138.7: As above. Lower contact at 45 degrees to CA. Minor magnetite in initial 6 metres. Chlorite also present gives the rock a pale green colour. Colour changes back to buff colour to light grey past 132 metres.										
<<Min: 132 - 164: 4% pyrite>> Pyrite mainly as very fine grained replacements and lesser wispy veins.										
<<Alt: 132 - 159.8: moderate to strong Silica-Clay-Py>> Mainly clay and pyrite, silicification patchy										
<<Struc: 131 - 133: strong Fault Zone 40 deg. >> Mixed gouge and rubble										
138.70	159.80	HTBX Hydrothermal breccia/alterite grey								
138.7 - 159.8: Hydrothermal breccia as above. Patchy silicification and intense clay alteration. Pyrite as above. From 148.64m intense fault zone of rubble and gouge. In fault contact with unit below.										
<<Struc: 148.64 - 156: strong Fault Zone 50 deg. >>										
			131.00	133.00	N255178	0.01	367.7	23	3.8	0.112
			133.00	135.00	N255179	0.009	137.4	7.4	4.9	0.072
			135.00	137.00	N255181	0.011	108.2	13.6	5.1	0.139
			137.00	139.00	N255182	0.012	78.5	35.4	5.5	0.794
			139.00	141.00	N255183	0.008	95.7	7.6	2.4	0.025
			141.00	143.00	N255184	0.012	126.1	4.3	3.8	-0.005
			143.00	145.00	N255185	0.01	109.2	4.4	4.4	-0.005
			143.00	145.00	N255186	0.012	108.5	3.8	4.7	-0.005
			145.00	147.00	N255187	0.009	138.6	15.2	3	-0.005
			147.00	149.00	N255188	0.009	110.8	7.3	3.5	-0.005
			149.00	151.00	N255189	0.012	169.8	4.2	2.5	0.022
			151.00	153.00	N255190	0.016	155.7	18.2	5.1	0.195
			153.00	155.00	N255191	0.004	92.5	8	3.9	0.022
			155.00	157.00	N255193	0.012	198.5	4.4	3.1	0.042
			157.00	159.00	N255194	0.006	193.8	3.7	3.1	0.013
			159.00	161.00	N255195	0.007	139.8	2	3	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
159.80	227.00	ANTF Tuffaceous Andesite grey	161.00	163.00	N255196	0.007	95.4	1.3	1.9	-0.005
159.8 - 227: Tuff breccia to lapilli tuff. To 165.5 is a major fault zone. Below is competent rock. Alteration is pervasive caly alteration and patchy silicification. Pyrite is disseminated and in whispy veins.										
<<Min: 164 - 192: 8% pyrite>>										
<<Min: 192 - 200: 3% pyrite / magnetite / 3% dolomite>> Dolomite is carbonate and zeolite. Magnetite all as diseminations										
<<Min: 200 - 227: 3% pyrite / 2% magnetite>> Magnetite mainly replacing original mafic minerals										
<<Alt: 159.8 - 197: moderate to strong Silica-Clay-Py>> Increasing in intesity with depth particularly pyrite content.										
<<Vein: 192 - 200: 1% Pyrite / 0% Magnetite / 2% Calcium carbonate/Carbonate>>										
<<Vein: 200 - 227: 1% Pyrite / 0.5% Magnetite / 2% Calcium carbonate/Carbonate>>										
<<Struc: 159.8 - 165.5: intense Fault Zone 50 deg. >>										
<<Struc: 167.8 - 167.9: strong Gouge 55 deg. >>										
<<Struc: 174 - 175.8: moderate to strong Breccia 45 deg. >> Rubble zone										
<<Struc: 189 - 189.1: strong Gouge 20 deg. >>										
<<Struc: 218.5 - 218.8: strong Vein Sets 40 deg. >> Calcite vein										
			163.00	165.00	N255197	0.007	130.7	7.6	3.7	0.063
			165.00	167.00	N255199	0.004	115	13.5	6.9	0.057
			167.00	169.00	N255200	0.004	91.7	5.1	6.3	0.039
			169.00	171.00	N255201	0.004	111.8	5.1	6.5	0.035
			171.00	173.00	N255202	0.005	88.1	4.4	5.9	0.013
			173.00	175.00	N255203	0.003	92.7	4.1	6.2	0.017
			175.00	177.00	N255205	0.003	112.2	3	6.4	0.01
			177.00	179.00	N255206	0.004	126.6	5.9	7.6	0.196
			179.00	181.00	N255207	0.003	126.2	5.3	6.5	0.049
			181.00	183.00	N255208	0.003	96.4	4.4	5.9	0.011
			183.00	185.00	N255209	0.003	103.8	4.3	6.1	0.006
			183.00	185.00	N255210	0.003	105.6	5.1	6.3	0.006
			185.00	187.00	N255211	0.003	97.8	2	6.1	-0.005
			187.00	189.00	N255212	0.003	106.7	2.3	5.9	-0.005
			189.00	191.00	N255213	0.002	96.1	1.2	5.7	-0.005
			191.00	193.00	N255214	0.003	104.2	0.5	5.6	-0.005
			193.00	195.00	N255215	0.003	118.7	0.8	5.2	-0.005
			195.00	197.00	N255217	0.004	123.8	1.5	4.8	0.006
			197.00	199.00	N255218	0.002	120.3	1.8	2.5	0.008
			199.00	201.00	N255219	0.003	114.5	2	3.7	0.015
			201.00	203.00	N255220	0.003	102.6	1.8	2.3	0.012
			203.00	205.00	N255221	0.004	129.3	2.4	3	0.012
			205.00	207.00	N255223	0.005	98.4	0.9	1.7	0.005
			207.00	209.00	N255224	0.003	78.4	2.7	2.7	0.007
			209.00	211.00	N255225	0.003	88.9	2.5	2.2	0.008
			211.00	213.00	N255226	0.003	68.1	2.1	4.3	-0.005
			213.00	215.00	N255227	0.003	57.1	1.1	4.2	-0.005
			215.00	217.00	N255229	0.003	62.2	0.9	2.2	-0.005
			217.00	219.00	N255230	0.002	66.6	1	1.9	-0.005
			219.00	221.00	N255231	0.003	58	1.6	3.2	-0.005



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			221.00	223.00	N255232	0.003	60.7	1.5	3.9	-0.005
			221.00	223.00	N255233	0.003	58.7	1.3	3.7	0.007
			223.00	225.00	N255234	0.003	59.9	1.3	3.8	-0.005
			225.00	227.00	N255235	0.003	67.7	2.9	5.1	0.006
227.00	245.50	FP Feldspar Porphyry grey FG	227.00	229.00	N255236	-0.002	60.6	2.1	3.2	-0.005
<p>227 - 245.5: Fine to medium grained porphyritic intrusive rock of probable quartz diorite parentage. Occasional very fine grained quartz eyes. Porphyry is matrix supported at contacts and becoming crowded in the core and finer grained at lower contact. Few pyrite veins and pyrite nearly all as disseminated grains commonly replacing the original mafic phenocrysts. Silicification is minor.</p> <p><<Min: 227 - 246: 8% pyrite / 1% dolomite>> Dolomite = late carb and zeolite veins</p> <p><<Vein: 227 - 316: 2% Pyrite / 1% Calcium carbonate/Carbonate>></p> <p><<Struc: 229 - 229.05: strong Gouge 40 deg. >></p> <p><<Struc: 243.6 - 245.5: strong Fault Zone 40 deg. >></p>			229.00	231.00	N255237	0.003	64.4	7.9	3.3	0.022
			231.00	233.00	N255239	0.003	64.6	1.7	1	-0.005
			233.00	235.00	N255240	0.004	76.7	1.9	3.3	-0.005
			235.00	237.00	N255241	0.003	79.2	1.4	3.2	-0.005
			237.00	239.00	N255242	0.003	72.6	3	4.2	-0.005
			239.00	241.00	N255244	0.006	72.6	3.7	4.6	0.014
			241.00	243.00	N255245	0.003	68.4	4.4	4.6	0.017
			243.00	245.00	N255246	0.003	81.7	15.7	5.1	0.097
245.50	268.00	ANFX Feldspar-phyric Andesite grey FG	245.00	247.00	N255247	0.003	93.1	21.1	5	0.539
<p>245.5 - 268: As above. Upper and lower contacts are a fault at 40 degrees to CA. Many lappili tuff with some ash tuff sections.</p> <p><<Min: 246 - 268: 4% pyrite / 0.5% dolomite>></p> <p><<Struc: 258 - 258.05: moderate to strong Gouge 20 deg. >></p>			247.00	249.00	N255248	0.002	73	3.5	4.8	0.008
			249.00	251.00	N255249	0.003	79.7	3.1	5	-0.005
			251.00	253.00	N255250	0.002	78.7	3.4	5	0.012
			253.00	255.00	N255252	0.002	85	3.3	5.4	0.014
			255.00	257.00	N255253	0.003	89.1	1.2	6	-0.005
			257.00	259.00	N255254	0.003	70	2.6	6	-0.005
			259.00	261.00	N255255	0.003	50	5.3	5.7	0.053
			261.00	263.00	N255256	0.005	83.6	4.3	5.8	0.099
			261.00	263.00	N255257	0.005	85.6	5.1	5.6	0.104
			263.00	265.00	N255258	0.004	88.3	5.3	5.9	0.069
			265.00	267.00	N255259	0.004	71.9	7.3	6	0.08
			267.00	269.00	N255260	0.003	124.4	6.3	7.2	0.036

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
268.00	279.40	ANTF Tuffaceous Andesite								
268 - 279.4: Local sections of ash tuff, otherwise as units above.										
<<Min: 268 - 316: 10% pyrite / 1% dolomite>>										
<<Alt: 273 - 274.6: weak to moderate Silica-Clay-Py / moderate Vuggy silica/Qz>> Short section of vuggy silica.										
<<Alt: 274.6 - 279.4: moderate to strong Silica-Clay-Py>>										
<<Struc: 268 - 268.04: strong Gouge 40 deg. >>										
<<Struc: 278.1 - 282.7: moderate to strong Fault Zone 45 deg. >>										
279.40	341.20	FP Feldspar Porphyry								
279.4 - 341.2: Crowded feldspar porphyry with chilled upper and lower contacts. Chlorite and magnetite appear at 316 metres and continue to end of interval. Magnetite and clorite are replacements of the original mafic minerals. Increase in magnetite comes at expense of pyrite.										
<<Min: 316 - 348: 6% pyrite / 2.5% magnetite / 1% dolomite>>										
<<Alt: 279.4 - 315: / moderate Phyllic>> Phyllic altered, no silicification or quartz veins, could be classified as SCP, but no silica.										
<<Alt: 315 - 324: moderate Silica-Clay-Py / moderate Chlorite-Magnetite (+/- Si)>> CMG is not intense and appears to be relict alteration. No magnetite stringers and chlorite is largely replaced by sericite and clay.										
<<Alt: 324 - 325.65: / Chlorite-Magnetite (+/- Si) / moderate Phyllic>>										
<<Alt: 325.65 - 349: weak to moderate Silica-Clay-Py / moderate Chlorite-Magnetite (+/- Si)>>										
<<Vein: 316 - 471.6: 2% Pyrite / 1% Calcium carbonate/Carbonate>> Transition form wispy to discrete pyrite stringers with depth.										
<<Struc: 287 - 288.5: moderate to strong Fault Zone 45 deg. >>										
<<Struc: 310.3 - 311.4: moderate Local Gouge 45 deg. >>										
<<Struc: 316.2 - 318.6: moderate to strong Fault Zone 54 deg. >>										
			269.00	271.00	N255261	0.003	171.8	15	7	0.073
			271.00	273.00	N255262	0.004	105.1	36.8	6.7	0.47
			273.00	275.00	N255264	0.005	103.6	13.6	8.1	0.223
			275.00	277.00	N255265	0.003	58.2	4.4	7.4	0.023
			277.00	279.00	N255266	0.002	76.1	2.8	7.4	0.007
			279.00	281.00	N255267	0.002	56.6	1.5	5.5	0.005
			281.00	283.00	N255268	0.002	67.5	2.4	4.9	0.005
			283.00	285.00	N255270	0.002	54.6	2.1	4.7	-0.005
			285.00	287.00	N255271	-0.002	69	6	4	0.007
			287.00	289.00	N255272	-0.002	53	2.5	4.1	-0.005
			289.00	291.00	N255273	-0.002	55.2	1.9	6.6	-0.005
			289.00	291.00	N255274	0.002	57	1.6	6.5	0.005
			291.00	293.00	N255275	0.002	57.8	1.8	7.2	-0.005
			293.00	295.00	N255324	-0.002	70	2.5	7.6	-0.005
			295.00	297.00	N255276	0.003	78.8	3.1	6.4	-0.005
			297.00	299.00	N255277	0.002	60.5	3.1	6.1	-0.005
			299.00	301.00	N255278	0.002	70.2	2	6	-0.005
			301.00	303.00	N255279	0.003	64.6	2.6	5.9	-0.005
			303.00	305.00	N255280	0.002	69.3	2.7	6.3	-0.005
			305.00	307.00	N255282	0.003	80.1	2.7	6	-0.005
			307.00	309.00	N255283	0.005	69.8	2	5.4	-0.005
			309.00	311.00	N255284	0.003	85.3	2.4	5.4	0.011
			311.00	313.00	N255286	0.005	94.3	2.8	4	0.014
			313.00	315.00	N255287	0.004	106.8	2.2	4.2	0.007
			315.00	317.00	N255288	0.003	77.2	1.8	3.9	0.008
			317.00	319.00	N255289	0.003	96.8	2.2	4.7	0.01
			319.00	321.00	N255290	0.003	83.1	2.8	3.9	-0.005

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			321.00	323.00	N255292	0.003	67.6	2.7	0.9	-0.005
			323.00	325.00	N255293	0.003	71.6	2.8	1.7	-0.005
			325.00	327.00	N255294	0.003	71	2.7	4.5	-0.005
			327.00	329.00	N255295	0.003	69	2.4	3.3	-0.005
			329.00	331.00	N255296	0.004	67.8	1.5	4.8	-0.005
			331.00	333.00	N255297	0.002	67.2	1.4	0.8	-0.005
			331.00	333.00	N255298	0.002	69.1	1.8	1	0.006
			333.00	335.00	N255299	0.002	66.3	2.4	0.9	-0.005
			335.00	337.00	N255300	0.003	70.1	1.6	1.5	-0.005
			337.00	339.00	N255301	0.003	81.1	1.5	1.8	-0.005
			339.00	341.00	N255302	0.004	75.4	2.6	3.7	-0.005
			341.00	343.00	N255304	0.004	50.7	5.3	2.1	0.011
			343.00	345.00	N255305	0.004	55.8	2.3	2.7	0.028
341.20	351.00	ANTF Tuffaceous Andesite								
		green								
341.2 - 351: Colour pale green due to chloritization. Magnetite is as disseminations and not veining. By last 2 metres of section, alteration has reverted to SCP type with no magnetite or chlorite.										
<<Min: 348 - 383: 10% pyrite / 0.5% dolomite>>										
<<Alt: 349 - 383.7: / moderate to strong Phyllic>>										
<<Struc: 341.2 - 341.21: intense Contact 50 deg. >>										
<<Struc: 346.5 - 346.51: intense Gouge 70 deg. >>										
351.00	359.90	FP Feldspar Porphyry								
		grey FG								
351 - 359.9: As above. Sharp contacts at 40 and 50 degrees with bounding rock. Pyrite as before mainly disseminations and lesser veins.										
<<Struc: 351 - 351.3: strong Gouge 40 deg. >>										
<<Struc: 354 - 354.01: strong Gouge 50 deg. >>										
<<Struc: 357 - 357.02: strong Gouge 50 deg. >>										
			345.00	347.00	N255306	0.004	52.3	2	4.2	0.017
			347.00	349.00	N255307	0.004	60.1	2	4.2	0.015
			349.00	351.00	N255308	0.004	60.6	12.3	4.3	0.09
			351.00	353.00	N255309	0.003	82.9	6.1	5.6	0.077
			353.00	355.00	N255311	-0.002	78.4	4.4	5.8	0.011
			355.00	357.00	N255312	0.002	79.2	3.1	5.7	0.005
			357.00	359.00	N255313	-0.002	81.3	2.1	5.9	0.011
			359.00	361.00	N255314	0.004	94.7	1.5	6.5	-0.005
			359.00	361.00	N255315	0.004	86.7	1.4	6.5	-0.005
			361.00	363.00	N255316	0.005	73.2	19.3	6	0.438
359.90	367.20	ANTF Tuffaceous Andesite								
		grey								
359.9 - 367.2: As above. Both contacts at 50 to CA.										
<<Struc: 359.9 - 359.91: intense Contact 50 deg. >>										
			363.00	365.00	N255317	0.004	85.2	2.4	7.1	-0.005
			365.00	367.00	N255318	0.003	89.1	3.2	6.3	0.012
			367.00	369.00	N255319	0.004	96.1	1.9	4.7	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
367.20	383.50	FP Feldspar Porphyry								
grey FG 367.2 - 383.5: As above. <<Min: 383 - 386: 12% pyrite / 1% dolomite / 0.5% fluorite>> <<Struc: 367.2 - 367.21: intense Contact 50 deg. >> <<Struc: 372 - 372.18: moderate to strong Fault Zone 45 deg. >>										
	369.00		369.00	371.00	N255321	0.003	85.4	1.2	6	0.006
			371.00	373.00	N255322	0.002	84.9	2.3	6.1	-0.005
			373.00	375.00	N255323	0.003	78.8	13.1	6.3	0.071
			375.00	377.00	N255325	0.003	82.9	3.3	5.7	0.005
			377.00	379.00	N255327	0.002	85.8	3.3	6.1	-0.005
			379.00	381.00	N255328	0.007	89.7	2.8	5.8	-0.005
			381.00	383.00	N255329	-0.002	69.9	1.8	6.1	-0.005
			383.00	385.00	N255330	-0.002	35.1	7.8	3	0.01
			385.00	387.00	N255331	-0.002	5.6	21.2	0.2	0.153
383.50	407.80	ANTF Tuffaceous Andesite								
grey 383.5 - 407.8: As above. Flourite stringers and veins in upper 2 metres of the contact. Well developed lapilli texture at 403 to 408 metres. <<Min: 386 - 412: 12% pyrite / 1% dolomite>> <<Alt: 383.7 - 399.4: strong Silica-Clay-Py>> Increasing silicification. <<Alt: 399.4 - 401.1: strong Silica-Clay-Py>> Yellow clay alteration, possible pyrophyllite <<Alt: 401.1 - 415.2: moderate to strong Silica-Clay-Py>> Chlorite appears in final couple of metres of interval. <<Struc: 383.7 - 387.71: intense Contact 60 deg. >> <<Struc: 401.9 - 401.96: strong Gouge 55 deg. >> <<Struc: 403 - 403.1: strong Gouge 55 deg. >>										
			387.00	389.00	N255332	0.003	20.3	8.9	4.1	-0.005
			389.00	391.00	N255333	-0.002	6.7	6	0.8	0.016
			391.00	393.00	N255334	-0.002	13.9	2.1	3.7	-0.005
			393.00	395.00	N255335	-0.002	22.5	1.8	5.2	-0.005
			395.00	397.00	N255336	-0.002	19.6	1.3	5.2	-0.005
			397.00	399.00	N255337	0.003	37.5	2.1	7.5	-0.005
			397.00	399.00	N255338	0.002	32.2	1.6	6.9	-0.005
			399.00	401.00	N255339	0.002	73.8	1.7	10	-0.005
			401.00	403.00	N255340	-0.002	59.9	1	9.4	-0.005
			403.00	405.00	N255341	-0.002	39.8	1.2	9	-0.005
			405.00	407.00	N255343	0.003	41.8	0.6	9.7	-0.005
			407.00	409.00	N255344	0.002	35.3	2.6	8.7	-0.005
			409.00	411.00	N255345	-0.002	42.5	1.3	7.2	-0.005
407.80	433.70	ANAM Amygdaloidal Andesite								
grey FG 407.8 - 433.7: Amygdaloidal andesite, autobrecciated at both contacts and chilled texture. Coarser grained in core of the flow. Amydules to 5mm. Core of the flow at 416 to 424 metres is chlorite altered with minor magnetite. May be remanent of earlier alteration with in the core of this massive flow. <<Min: 412 - 414: 8% pyrite / 1% dolomite>> Dolomite = late zeolite carbonate veining <<Min: 414 - 424: 3% pyrite / 3% magnetite / 1% dolomite>> <<Min: 424 - 471.6: 10% pyrite / 1% dolomite / 1% anhydrite>> Anhydrite in 1mm or thinner veinlets also, now have hairline discrete pyrite stringers, wispy veins less common. <<Alt: 415.2 - 424: weak to moderate Silica-Clay-Py / moderate Chlorite-Magnetite (+/- Si)>>										
			411.00	413.00	N255347	-0.002	43.8	4.5	8.7	-0.005
			413.00	415.00	N255348	-0.002	37.7	1.5	5.2	-0.005
			415.00	417.00	N255349	-0.002	42	1.4	2.2	-0.005
			417.00	419.00	N255350	-0.002	35.2	1.1	2.7	-0.005

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P 18-01

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 424 - 471.6: strong Silica-Clay-Py>>		Increasing silicification and incipient quartz veins. Also, anyhydrite stringers hairlines and dry pyrite fractures and stringers.	419.00	421.00	N255351	0.002	48.8	1.1	3	-0.005
<<Struc: 426 - 426.05: strong Contact 70 deg. >>			421.00	423.00	N255352	-0.002	46	1.2	2.7	-0.005
			423.00	425.00	N255353	0.002	49	1.2	5.1	-0.005
			425.00	427.00	N255355	0.006	42.8	1.9	9.1	0.006
			427.00	429.00	N255356	0.003	48.3	1.6	7.5	-0.005
			429.00	431.00	N255357	0.002	49.1	1.7	6.6	-0.005
			429.00	431.00	N255358	-0.002	43.3	2	6.6	-0.005
			431.00	433.00	N255359	-0.002	44.9	6.8	8.3	-0.005
			433.00	435.00	N255360	0.004	48.3	2.2	7.1	-0.005
			435.00	437.00	N255361	0.005	49.7	5.4	4.7	-0.005
433.70 471.60 ANTF		Tuffaceous Andesite								
		grey								
433.7 - 471.6: Alteration transitional, beginning of incipient quartz veins, likely pyrophyllite. Late anyhydrite veins and earlier hairline pyrite stringers. Noted vfg grey metallic mineral. Increasing pervasive silicification with depth.										
<<Struc: 433.7 - 433.71: intense Contact 70 deg. >>			437.00	439.00	N255362	0.003	27.5	4.5	2.8	-0.005
<<Struc: 434.5 - 434.56: strong Gouge 55 deg. >>			439.00	441.00	N255363	-0.002	16.1	1.7	2.8	-0.005
<<Struc: 439 - 439.3: moderate Fault Zone 55 deg. >>			441.00	443.00	N255364	0.004	107.1	145.3	5.8	0.728
<<Struc: 448.8 - 448.84: strong Gouge 65 deg. >>			443.00	445.00	N255366	0.002	68.7	4.9	7.7	0.01
			445.00	447.00	N255367	0.003	43.2	9.5	6.9	0.086
			447.00	449.00	N255368	0.004	44.2	10.2	6.1	0.074
			449.00	451.00	N255369	0.004	39.2	8.9	5.9	0.078
			451.00	453.00	N255370	0.002	30.9	1.5	5.6	-0.005
			453.00	455.00	N255371	-0.002	39.5	1.5	5	-0.005
			455.00	457.00	N255372	0.002	41.6	1.9	6.6	0.01
			457.00	459.00	N255374	0.002	56.6	2.3	7.7	0.01
			459.00	461.00	N255375	0.002	45.4	2.8	6.1	0.007
			461.00	463.00	N255376	0.003	38.5	3.9	5.5	0.018
			463.00	465.00	N255377	0.003	41.3	3.3	6.5	0.014
			465.00	467.00	N255378	0.002	42.7	3.9	5.1	0.013
			467.00	469.00	N255379	0.003	45.2	3.4	5.9	0.009
			469.00	471.00	N255381	0.002	32.2	2.7	6.3	0.013
			471.00	471.60	N255382	0.003	36	2.8	6	0.043
End of Hole @ 471.6										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-02

Prospect:		Survey Type:	GPS	Logged By:	BG
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	19/10/2018
Easting:	587060	Azimuth:	20	Date Completed:	22/10/2018
Northing:	5609312	Dip:	-70	Drill Company:	Dorado
Elevation (m):	276	Length (m):	133.5	Drill Rig:	Rig4
Hole Type:	DD			Drill Started:	17/10/2018
Hole Diameter:				Drill Completed:	22/10/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input type="checkbox"/>	Hole lost at 133.5m in fault zone. Attempt to cement fault zone failed. Pull out, re-drill hole at -90			
Casing Depth (m):	62.5				

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
120	-71.3	4.5	17.5	22	ReflexEZS		21/10/2018	54425	<input type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Ag ICP ppm	Cu ICP ppm	Mo ICP ppm	Re1 ICP ppm
0.00	21.00	OVER Overburden								
0 - 21: Mixed rock types; probable overburden or slide material										
21.00	31.30	ANTF Tuffaceous Andesite buff	29.00	31.00	N255388					
21 - 31.3: Ash flow tuff or feldspar phyrlic flow. Intensely clay altered with patchy pale grey silicification. Pyrite as disseminations and rare wispy veinlets. Rare patchy and weak chloritization. Numerous cm to dm-scale wide cly gouge and crushed fault zones throughout interval.										
<<Min: 21 - 31.3: 5% pyrite>>										
<<Alt: 21 - 35.8: moderate to strong Silica-Clay-Py>>										
<<Vein: 21 - 58: 0.5% Pyrite>>										
<<Struc: 21 - 31.3: moderate to strong Fault Zone / strong Gouge 20 deg. >>										
31.30	35.80	ANTF Tuffaceous Andesite buff								
31.3 - 35.8: As above feldspar phyrlic with scattered 5-20mm subrounded to subangular fragments.										
<<Min: 31.3 - 35.8: 8% pyrite>>										
<<Struc: 31.3 - 38.8: moderate to strong Fault Zone / moderate to strong Local Gouge>>										



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Ag ICP ppm	Cu ICP ppm	Mo ICP ppm	Re1 ICP ppm
35.80	38.80	ANTF Tuffaceous Andesite green								
<p>35.8 - 38.8: Heterolithic breccia with subangular clasts to 4cm. Contains dark green chlorite altered clasts with finely disseminated magnetite. Faulted broken contacts.</p> <p><<Min: 35.8 - 38.8: 5% pyrite / 3% magnetite>></p> <p><<Alt: 35.8 - 38.8: moderate to strong Silica-Clay-Py / weak to moderate Chlorite-Magnetite (+/- Si)>></p>										
38.80	58.00	ANTF Tuffaceous Andesite buff	51.00	53.00	N255396					
<p>38.8 - 58: As per interval from 31.3-35.8m. Rare patchy yellow-brown pyrophyllite scattered throughout and increasing down interval. Very strong clay-mud fault gouge at 53.4-58m. No samples taken from interval 39-45m due to contamination from drill cuttings through interval where the hole was cemented.</p> <p><<Min: 38.8 - 58: 7% pyrite>></p> <p><<Alt: 38.8 - 58: strong Silica-Clay-Py>></p> <p><<Struc: 38.8 - 53.4: moderate to strong Brittle Fracture / moderate Local Gouge>></p> <p><<Struc: 53.4 - 58: strong Gouge 50 deg. >></p>										
58.00	83.70	ANTF Tuffaceous Andesite buff	75.00	77.00	N255410					
<p>58 - 83.7: Tuff breccia or lapilli tuff with fragments to 4cm. Continued intense clay alteration with increased patchy pale grey silification and scattered mm-scale wide qtz and qtz-py veinlets. Marked increase in blebby and patchy yellow-brown pyrophyllite.</p> <p><<Min: 58 - 83.7: 10% pyrite / 5% pyrophyllite>></p> <p><<Alt: 58 - 83.7: strong Silica-Clay-Py>></p> <p><<Vein: 58 - 95.5: 1% Pyrite / 1% Quartz>></p> <p><<Struc: 64.5 - 64.7: strong Gouge 50 deg. >></p> <p><<Struc: 75.2 - 75.21: moderate to strong Brittle Fracture 20 deg. >></p> <p><<Struc: 80.2 - 80.21: moderate to strong Brittle Fracture 24 deg. >></p>										
83.70	87.20	ANTF Tuffaceous Andesite buff								
<p>83.7 - 87.2: Feldspar phyrlic ash flow tuff. Vuggy from washed out clays or pyrite.</p> <p><<Min: 83.7 - 87.2: 8% pyrite / 2% pyrophyllite>></p> <p><<Alt: 83.7 - 87.2: moderate to strong Silica-Clay-Py>></p> <p><<Struc: 83.7 - 83.71: moderate to strong Contact 45 deg. >></p>										
87.20	95.50	ANTF Tuffaceous Andesite buff	93.00	95.00	N255421					
<p>87.2 - 95.5: As per 58 to 83.7m</p> <p><<Min: 87.2 - 97.8: 8% pyrite / 5% pyrophyllite>></p> <p><<Alt: 87.2 - 95.5: strong Silica-Clay-Py>></p>										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills

Hole Number:

P18-02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Ag ICP ppm	Cu ICP ppm	Mo ICP ppm	Re1 ICP ppm
<<Struc: 87.2 - 87.21: moderate Contact 45 deg. >> <<Struc: 88.6 - 89.6: moderate to strong Local Gouge 50 deg. >> <<Struc: 92.5 - 93: moderate to strong Gouge 50 deg. >>										
95.50	97.80	ANTF Tuffaceous Andesite buff								
95.5 - 97.8: Heterolithic breccia of possible hydrothermal origin with sub rounded to sub angular fragments to 6cm. Intense clay alteration, locally abundant patchy pyrophyllite. Disseminated pyrite in fragments and matrix. Sharp upper and lower contacts at 45 deg to CA.										
<<Alt: 95.5 - 97.8: intense Silica-Clay-Py>>										
97.80	116.70	ANTF Tuffaceous Andesite	103.00	105.00	N255427					
97.8 - 116.7: As per interval from 58-83.7m. Ultr trace fg grey-black sooty mineralization, cc, on some fracture surfaces.										
<<Min: 97.8 - 116.7: 12% pyrite / 5% pyrophyllite>> <<Alt: 97.8 - 116.7: strong Silica-Clay-Py>> <<Vein: 97.8 - 116.7: 1% Pyrite / 1% Quartz>> <<Struc: 98.8 - 99: moderate to strong Gouge>> <<Struc: 101.4 - 102: moderate Brittle Fracture 25 deg. / weak to moderate Local Gouge 25 deg. >> <<Struc: 103.8 - 104.7: moderate Brittle Fracture 10 deg. >> <<Struc: 110.4 - 111: moderate Local Gouge>>										
116.70	118.80	HTBX Hydrothermal breccia/alterite buff								
116.7 - 118.8: Heterolithic breccia of probable hydrothermal origin with subangular to sub rounded fragments to 5cm. Intense clay alteration makes it difficult to determine rock type. Decreased pyrophyllite from above intervals. Disseminated pyrite predominantlntly in variably silicified fragments. Contacts broken but lower contact about 60 deg to CA.										
<<Min: 116.7 - 118.8: 5% pyrite / 1% pyrophyllite>> <<Alt: 116.7 - 133.5: intense Silica-Clay-Py>>										
118.80	133.50	ANTF Tuffaceous Andesite buff								
118.8 - 133.5: As above. Tuff breccia or ash flow tuff. Intensely clay altered. Crushed and broken fault zone from 124.2-126.0m, contacts broken but look to be at high angle to CA. Patchy silicification, reduced qtz-py veining likely due to very intense clay alteration. Hole lost at 133.5m in fault.										
<<Min: 118.8 - 133.5: 8% pyrite / 2% pyrophyllite>> <<Vein: 118.8 - 133.5: 0.5% Pyrite / 0.5% Quartz>> <<Struc: 124.2 - 126: intense Fault Zone>> contacts broken but at higher angle to CA, possibly 60-80 deg to CA										
End of Hole @ 133.5										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-02A

Prospect:		Survey Type:	GPS	Logged By:	BG
Grid:	NAD83_Z9	Survey By:	BG	Date Started:	24/10/2018
Easting:	587060	Azimuth:		Date Completed:	30/10/2018
Northing:	5609263	Dip:	-90	Drill Company:	Dorado
Elevation (m):	276	Length (m):	144	Drill Rig:	Rig4
Hole Type:	DD			Drill Started:	23/10/2018
Hole Diameter:				Drill Completed:	30/10/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input type="checkbox"/>	Hole lost at 144.0m in major fault.			
Casing Depth (m):	16.5				

Downhole Surveys:

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	16.50	OVER Overburden								
0 - 16.5: Boulders and mixed rock types.										
16.50	44.70	ANTF Tuffaceous Andesite buff	18.00	20.00	N255445	0.003	101.4	1.8	4.8	-0.005
16.5 - 44.7: Feldspar phyric tuff (ash tuff). Core is broken with numerous dm-scale clay gouge and brittle fracture intervals. Major fault zone from 20.9-27.4m. Intensely clay altered. Trace mm-scale quartz and carbonate veinlets. Disseminated and wispy fine grained pyrite. Locally mm-scale blebby dickite.										
<<Min: 16.5 - 44.7: 4% pyrite / 5% dickite>>										
<<Alt: 16.5 - 44.7: moderate to strong Silica-Clay-Py / weak Dickite (overprint/infill)>>										
<<Vein: 16.5 - 44.7: 0.5% Pyrite / 0.5% Quartz>>										
<<Struc: 20.9 - 27.4: strong Fault Zone 30 deg. / strong Local Gouge>>										
<<Struc: 28.2 - 28.25: moderate to strong Brittle Fracture 10 deg. >>										
<<Struc: 34.7 - 34.75: moderate to strong Brittle Fracture 15 deg. >>										
<<Struc: 40.05 - 40.15: moderate to strong Brittle Fracture 10 deg. >>										
<<Struc: 41 - 45: moderate Local Gouge>>										
			20.00	22.00	N255446	0.003	95.2	2	5.6	-0.005
			22.00	24.00	N255447	0.002	77.9	1.9	5.5	-0.005
			24.00	26.00	N255448	0.003	96.6	2	5.3	0.006
			26.00	28.00	N255449	0.006	100	1.9	5.5	-0.005
			28.00	30.00	N255451	0.003	87.7	2.1	3.3	-0.005
			30.00	32.00	N255452	0.002	91.7	2.1	4.9	-0.005
			32.00	34.00	N255453	0.003	92.1	2	5.6	0.005
			34.00	36.00	N255454	0.003	85.3	1.9	3.4	0.013
			36.00	38.00	N255455	0.003	103.1	1.6	6.1	-0.005
			38.00	40.00	N255456	0.002	94	1.8	6.1	0.007
			40.00	42.00	N255457	0.003	88.4	1.8	6.3	-0.005
			42.00	44.00	N255458	0.003	95.1	1.3	6.1	0.006

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
44.70	89.25	ANTF Tuffaceous Andesite buff	44.00	46.00	N255459	-0.002	99.7	1.8	6.4	-0.005
			46.00	48.00	N255460	0.004	135	4.4	9	0.03
<p>44.7 - 89.25: Andesite lapilli tuff or tuff breccia. Continued intense clay alteration; textures largely destroyed. Core still predominantly broken with dm scale wide clay gouge and brittle fracture intervals. Major fault zone from 79.1-87.4m. Blebbly and discontinuous stringers of dickite with marked increase in blotchy pyrophyllite at 56m. Patchy grey silicification and mm-scale grey quartz and pyrite stockwork veinlets become much more common after 67m.</p> <p><<Min: 44.7 - 56: 6% pyrite / 3% dickite / 2% pyrophyllite>></p> <p><<Min: 56 - 72: 8% pyrite / 2% dickite / 5% pyrophyllite>></p> <p><<Min: 72 - 112.2: 12% pyrite / 7% pyrophyllite>></p> <p><<Alt: 44.7 - 67: strong Silica-Clay-Py / weak Dickite (overprint/infill)>></p> <p><<Alt: 67 - 89.25: strong Silica-Clay-Py>></p> <p><<Vein: 44.7 - 67: 1% Pyrite / 1% Quartz>></p> <p><<Vein: 67 - 89.25: 1.5% Pyrite / 1% Quartz>></p> <p><<Struc: 57.55 - 57.7: moderate Local Gouge 40 deg. >></p> <p><<Struc: 69.2 - 69.3: moderate to strong Brittle Fracture 10 deg. / moderate to strong Local Gouge 10 deg. >></p> <p><<Struc: 70 - 74.5: moderate to strong Brittle Fracture 30 deg. / moderate Local Gouge 30 deg. >></p> <p><<Struc: 79.1 - 87.4: intense Fault Zone>> Major fault zone, no discernable contacts</p>			48.00	50.00	N255461	0.005	160.1	6.6	10	0.052
			50.00	52.00	N255463	0.005	130.5	5.4	8.8	0.023
			52.00	54.00	N255464	0.004	120.2	7.8	8.5	0.07
			54.00	56.00	N255465	0.005	140.7	9.6	6.5	0.05
			56.00	58.00	N255466	0.005	192.3	6	8.6	-0.005
			58.00	60.00	N255467	0.004	158.6	2.8	5.6	0.006
			60.00	62.00	N255468	0.005	117.3	1.9	6.7	-0.005
			62.00	64.00	N255470	0.007	107.6	8.1	6.2	0.016
			64.00	66.00	N255471	0.005	127.2	10.2	8.6	0.132
			66.00	68.00	N255472	0.005	101.4	6.2	8.4	0.027
			68.00	70.00	N255473	0.004	140.7	3.8	8.2	0.033
			70.00	72.00	N255475	0.004	191.7	1.9	7.6	0.008
			72.00	74.00	N255476	0.006	167.4	2.6	8	0.014
			74.00	76.00	N255477	0.005	153.6	1.4	7.6	0.005
			76.00	78.00	N255478	0.007	214.6	1.9	9.4	0.012
			78.00	80.00	N255479	0.005	154.4	2.6	7.4	0.029
			80.00	82.00	N255480	0.004	188.4	3.2	7.3	0.016
			82.00	84.00	N255481	0.005	137.9	2.9	5.5	0.031
			84.00	86.00	N255482	0.006	175.3	3.6	5.7	0.025
			86.00	88.00	N255483	0.007	180.3	5.3	5.8	0.08
			88.00	90.00	N255485	0.006	217	8.7	7.5	0.111
89.25	112.20	ANTF Tuffaceous Andesite buff	90.00	92.00	N255486	0.006	160.5	6.1	6.7	0.081
<p>89.25 - 112.2: As above. Subophitic texture. Increase in fine grain pale grey silicification with increased mm-scale wide stockwork grey quartz stringers and pyrite and quartz-pyrite stringers. Remains broken with dm-scale wide brittle fracture and clay gouge zones.</p> <p><<Alt: 89.25 - 112.2: intense Silica-Clay-Py>></p> <p><<Vein: 89.25 - 112.2: 3% Pyrite / 2% Quartz>></p> <p><<Struc: 90.6 - 90.62: strong Gouge 45 deg. >></p>			92.00	94.00	N255487	0.006	183.2	6.2	7.7	0.046
			92.00	94.00	N255488	0.006	184.5	7.1	8.4	0.083
			94.00	96.00	N255489	0.006	130	4.2	6.4	0.02

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 93 - 93.25: moderate to strong Brittle Fracture 10 deg. >>			96.00	98.00	N255490	0.004	106.1	4.5	5.2	0.026
<<Struc: 100.1 - 100.15: strong Gouge 60 deg. >>			98.00	100.00	N255491	0.005	152.3	4.7	5.5	0.012
<<Struc: 100.95 - 101.1: strong Brittle Fracture 10 deg. >>			100.00	102.00	N255492	0.005	128.3	4.7	5.6	0.016
<<Struc: 104.8 - 105.15: strong Breccia 50 deg. >>			102.00	104.00	N255493	0.005	108.9	5.7	6.1	0.05
<<Struc: 108 - 109.15: strong Fault Zone>>			104.00	106.00	N255495	0.008	153.7	10.1	7.8	0.118
			106.00	108.00	N255496	0.013	168.8	12.5	7.2	0.081
			108.00	110.00	N255497	0.015	176.2	47.6	4.1	1.358
			110.00	112.00	N255498	0.008	92.4	21.4	6	0.588
			112.00	114.00	N255499	0.014	351.6	20.4	4.8	0.259
			114.00	116.00	N255501	0.008	156.8	30.7	6	0.116
112.20 134.15 ANTF Tuffaceous Andesite buff										
112.2 - 134.15: As above. Major fault zone. Mostly crushed and broken rock with dm-scale wide clay gouge zones and partially intact fault breccia. Some scattered dm-scale wide coherent intervals are tuff as above.										
<<Min: 112.2 - 134.15: 8% pyrite / 5% pyrophyllite>>			116.00	118.00	N255502	0.008	203.8	19	5.4	0.345
<<Alt: 112.2 - 134.15: strong Silica-Clay-Py>>			118.00	120.00	N255503	0.008	204.9	18	7.1	0.121
<<Vein: 112.2 - 134.15: 2% Pyrite / 2% Quartz>>			120.00	122.00	N255504	0.009	308.3	13.7	7.3	0.09
<<Struc: 112.5 - 115.1: intense Fault Zone>>			122.00	124.00	N255566	0.007	169.7	7.1	6.5	0.074
<<Struc: 115.1 - 116: intense Gouge 85 deg. >>			124.00	126.00	N255505	0.006	132	3.8	5.9	0.037
<<Struc: 116 - 125.2: intense Fault Zone>>			124.00	126.00	N255506	0.007	120.9	4.2	5.5	0.041
<<Struc: 125.2 - 126: strong Breccia 70 deg. >>			126.00	128.00	N255507	0.007	133.7	3.2	7.1	0.015
<<Struc: 126 - 144: intense Fault Zone / strong Brittle Fracture>>			128.00	130.00	N255508	0.009	208.8	3.6	8.4	-0.005
			130.00	132.00	N255509	0.006	98.7	16.7	8.4	0.095
			132.00	134.00	N255510	0.006	97.2	13.1	5.9	0.186
			134.00	136.00	N255512	0.003	61	2.9	4.5	0.014
			136.00	138.00	N255513	0.003	72.9	3	4.2	0.008
134.15 144.00 ANDS Andesite (General/Massive) buff										
134.15 - 144: Continuation of above major fault zone. Recovery is poor, with recovery from 138-144 about 20%. From 134.15-135.7m, massive andesite flow possibly with 2-4mm carbonate-filled amygdules. From 135.7-144m, rubble core with mixed SCP andesite and dark green CMG andesite. CMG is massive with disseminated magnetite and no quartz veining. Hole terminated at 144m in major fault.										
<<Min: 134.15 - 144: 8% pyrite / 5% magnetite>>			138.00	144.00	N255514	0.002	71.2	2	2.7	0.006
<<Alt: 134.15 - 144: strong Silica-Clay-Py / weak to moderate Chlorite-Magnetite (+/- Si)>>										
End of Hole @ 144										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-03

Prospect:		Survey Type:	GPS	Logged By:	BG
Grid:	NAD83_Z9	Survey By:	BG	Date Started:	31/10/2018
Easting:	586981	Azimuth:		Date Completed:	09/11/2018
Northing:	5609263	Dip:	-90	Drill Company:	Dorado
Elevation (m):		Length (m):	149.5	Drill Rig:	Rig4
Hole Type:	DD			Drill Started:	30/10/2018
Hole Diameter:				Drill Completed:	09/11/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input type="checkbox"/>	Move the drill down the road from P18-02, 02A attempt another vertical hole. Hole terminated at 149.5m; core barrel broken off in the hole at 131.5m.			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
73	-88.1	101.6	17.5	119.1	ReflexEZS		03/11/2018	54091	<input type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	5.50	OVER								
		Overburden								
5.50	29.40	ANTF								
		Tuffaceous Andesite								
		buff	5.50	7.00	N255515	0.023	15.7	3	-0.1	0.007
5.5 - 29.4: Ash flow tuff, locally feldsapr phyric groundmass with 5-15mm tuff fragments. Pervasively silicified with patchy clay alteration. Disseminated and wispy pyrite stringers and rare mm-scale wide grey quartz stringers. Weakly to strongly oxidized often preferentially along brittle fractures.										
<<Min: 5.5 - 13.3: 6% pyrite / 5% goethite>>										
<<Min: 13.3 - 18.9: 10% pyrite / 0.5% goethite>>										
<<Min: 18.9 - 22.5: 6% pyrite / 3% goethite>>										
<<Min: 22.5 - 26: 10% pyrite / 0.5% goethite>>										
<<Min: 26 - 37.8: 1% pyrite / 5% goethite>>										
<<Alt: 5.5 - 29.4: strong Silica-Clay-Py>>										
<<Vein: 5.5 - 29.4: 1% Pyrite>>										
<<Struc: 11.5 - 11.6: moderate to strong Gouge 35 deg. >>										
<<Struc: 17.5 - 17.55: moderate to strong Brittle Fracture 45 deg. >>										
<<Struc: 19.65 - 20.5: moderate Brittle Fracture 10-20 deg. >>										
<<Struc: 26.5 - 26.65: moderate to strong Brittle Fracture 10 deg. >>										
7.00	9.00		7.00	9.00	N255516	0.007	11.6	3.1	-0.1	-0.005
9.00	11.00		9.00	11.00	N255517	0.01	117.5	6.3	6.6	0.389
11.00	13.00		11.00	13.00	N255518	0.039	75.6	10.3	1.6	0.008
13.00	15.00		13.00	15.00	N255519	0.005	113.2	6.1	5.8	0.011
15.00	17.00		15.00	17.00	N255520	0.003	89.7	3.5	6.6	0.007
17.00	19.00		17.00	19.00	N255521	0.007	116.4	3.5	7.3	-0.005
19.00	21.00		19.00	21.00	N255522	0.012	85.7	5.9	3.8	-0.005
21.00	23.00		21.00	23.00	N255523	0.008	94.2	8.2	5.1	0.005
23.00	25.00		23.00	25.00	N255524	0.015	100.3	4.2	6.8	-0.005
25.00	27.00		25.00	27.00	N255525	0.005	94.3	5	4.9	0.007
27.00	29.00		27.00	29.00	N255526	0.005	98.3	3.9	3.7	-0.005
29.00	31.00		29.00	31.00	N255528	0.01	60	7.6	0.5	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
29.40	134.20	ANTF Tuffaceous Andesite buff	31.00	33.00	N255529	0.009	183.5	10.4	0.2	0.007
29.4 - 134.2: As above. Major fault zone. Oxidation as above to 62.5m. Broken fault zone with clay-mud gouge intervals and crushed-broken rock fragments. Intense clay alteration; textures largely destroyed. Some cm to dm-scale wide intervals are SCP altered tuff with disseminated and wispy pyrite and patchy fg silicification. Overall core recovery is poor, particularly from 29.4-62.5m, 79-82m, 94.5-97m and 127-133m. Hole correction at 121m. 6m hole correction takes hole from 115-121m after rod count.										
<<Min: 37.8 - 62.5: 5% pyrite / 3% goethite>>			33.00	37.00	N255530	0.011	82.3	7.3	2.2	0.017
<<Min: 62.5 - 80: 7% pyrite>>			37.00	40.00	N255531	0.006	138.2	5.6	5.2	0.076
<<Min: 80 - 104: 2% pyrite>>			40.00	43.00	N255532	0.006	174	7.4	7.8	0.025
<<Min: 104 - 134.2: 4% pyrite>>			43.00	49.00	N255533	0.004	149.8	5.7	6.5	0.031
<<Alt: 29.4 - 145: moderate to strong Silica-Clay-Py>>			49.00	52.00	N255534	0.005	201.5	17	9.4	0.138
<<Struc: 29.4 - 53.4: strong Fault Zone>> Major Fault Zone			52.00	56.50	N255535	0.006	174.5	27.1	8.6	0.1
<<Struc: 53.4 - 53.5: moderate to strong Brittle Fracture 15 deg. >>			56.50	61.00	N255536	0.005	23.4	10.6	0.3	0.041
<<Struc: 53.5 - 65.25: intense Fault Zone>> Continuation of Major Fault Zone			61.00	63.00	N255537	0.006	253.1	9.8	5.6	0.083
<<Struc: 65.25 - 65.3: strong Gouge 30 deg. >>			63.00	65.00	N255538	0.007	426.1	5.8	6.5	0.082
<<Struc: 65.3 - 134.2: >> Continuation of Major Fault Zone. Contact broken with underlying more competent interval			65.00	67.00	N255539	0.007	413.4	6.5	7.2	0.08
			67.00	69.00	N255540	0.004	160.8	3.2	6	0.016
			69.00	71.00	N255541	0.004	87.6	3	10	0.018
			71.00	73.00	N255542	0.006	138.6	20.7	8.4	0.45
			73.00	75.00	N255543	0.007	92.9	16.6	4.6	0.19
			75.00	77.00	N255544	0.008	403.9	2.5	6.3	0.013
			77.00	79.00	N255545	0.009	184.5	3.1	8.6	0.013
			79.00	81.00	N255546	0.006	162.2	1.8	4.9	-0.005
			81.00	83.00	N255550	0.005	86.7	2.4	4.7	0.013
			83.00	85.00	N255551	0.003	74.4	3	5.3	0.013
			85.00	87.00	N255553	0.003	80.3	2.6	4.8	0.006
			87.00	89.00	N255554	0.002	53	3.9	4.5	-0.005
			89.00	91.00	N255555	0.002	58.8	2	4.6	-0.005
			91.00	93.00	N255556	0.003	63.4	2.2	4.8	-0.005
			93.00	95.00	N255557	0.003	58.6	3.2	5.8	-0.005
			95.00	98.00	N255559	0.002	50.8	2.7	4.5	-0.005
			98.00	100.00	N255560	0.002	52.7	2.9	6.9	-0.005
			100.00	102.00	N255561	0.002	59.6	3.2	4.3	0.005
			102.00	104.00	N255562	-0.002	39.4	3.9	3.8	-0.005
			104.00	106.00	N255563	0.003	86	4.3	3.8	0.016



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-03

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			106.00	108.00	N255564	0.003	66.5	3.6	4.9	0.013
			108.00	110.00	N255567	0.003	67.6	2.3	5.1	-0.005
			110.00	112.50	N255568	0.004	64.1	2.3	4.9	0.013
			112.50	115.00	N255569	0.003	57.6	2.8	4.4	0.013
			121.00	123.00	N255570	0.004	62.7	46.6	5.4	0.444
			123.00	125.00	N255572	0.004	91.5	63.8	4.4	0.153
			125.00	127.00	N255573	0.007	122.6	60	6.1	0.285
			127.00	130.00	N255574	0.004	98.9	41.9	5.4	0.169
			130.00	134.00	N255575	0.003	73.3	9.6	4	0.044
			134.00	136.00	N255576	0.003	82.5	5.6	5.2	0.015
			136.00	138.00	N255577	0.006	107.9	7	5.3	0.021
134.20	145.00	ANTF Tuffaceous Andesite buff								
<p>134.2 - 145: Intensely broken and gouged portion of fault zone ends; downhole contact broken. Intensely clay altered tuff; textures almost completely destroyed. Some remnant 2-20mm silicified tuff fragments. Disseminated and wispy fg pyrite. Patchy, weak pyrophyllite.</p> <p><<Min: 134.2 - 149.5: 6% pyrite / 2% pyrophyllite>></p> <p><<Vein: 134.2 - 145: 0.5% Pyrite>></p>										
			138.00	140.00	N255579	0.007	171.2	5.8	6	0.037
			140.00	142.00	N255580	0.004	127.9	5	5.5	0.013
			142.00	144.00	N255581	0.004	138.2	5.6	6.4	0.034
			144.00	146.00	N255582	0.004	171.7	4.6	6.4	0.015
			146.00	148.00	N255583	0.005	109.7	5.9	5.5	0.011
145.00	149.50	ANTF Tuffaceous Andesite buff								
<p>145 - 149.5: As above. More competent core with 5-40mm subrounded to subangular somewhat milled lapilli or breccia fragments with locally strong silicification. Pyrite as fg disseminations and wispy stringers. Trace fine grey quartz stringers. Patchy yellow-brown pyrophyllite.</p> <p><<Alt: 145 - 149.5: strong Silica-Clay-Py>></p> <p><<Vein: 145 - 149.5: 1% Pyrite / 0.25% Quartz>></p>										
			148.00	149.50	N255584	0.004	90.9	4.1	5.7	0.015
End of Hole @ 149.5										



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-04

Prospect:

Grid:

Easting:

Northing:

Elevation (m):

Hole Type:

Hole Diameter:

Core Size:

Casing Pulled?:

Casing Depth (m):

NAD83_Z9

588175

5609617

DD

HQ

19

Survey Type:

Survey By:

Azimuth:

Dip:

Length (m):

Comments:

DGPS

290

-70

19

Logged By:

Date Started:

Date Completed:

Drill Company:

Drill Rig:

Drill Started:

Drill Completed:

JM

09/11/2018

10/11/2018

Dorado

Rig4

09/11/2018

10/11/2018

Hole lost in overburden when casing was dropped in the hole. No core recovered. Dip was steepened to -75 and hole restarted as P18-04A

Downhole Surveys:



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-04A

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	10/11/2018
Easting:	588175	Azimuth:	290	Date Completed:	24/11/2018
Northing:	5609617	Dip:	-75	Drill Company:	Dorado
Elevation (m):		Length (m):	612	Drill Rig:	Rig4
Hole Type:	DD			Drill Started:	10/11/2018
Hole Diameter:				Drill Completed:	24/11/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input checked="" type="checkbox"/>	Restart of P18-04 from same set up, but at steeper angle. Core size reduced to Nq at 444 metres. Core barrel, bit and 30 metres of Hq rods left in the hole at 410 metres. Switch to NQ at 444m.			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
99	-73	268.8	17.5	286.3	ReflexEZS		24/11/2018	55223	<input checked="" type="checkbox"/>	
408	-73	19.6	17.5	37.1	ReflexEZS		24/11/2018	35267	<input type="checkbox"/>	Reading taken in magnetite bearing quartz diorite. Reading not to be relied upon.
510	-72.9	277.6	17.5	295.1	ReflexEZS		24/11/2018	54248	<input checked="" type="checkbox"/>	
612	-73.1	277.1	17.5	294.6	ReflexEZS		24/11/2018	53069	<input checked="" type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	25.50	CASE Drill casing/overburden								
0 - 25.5: Basal till										
<<Alt: 0 - 25.5: >>										
25.50	63.20	QD Quartz Diorite	grey	FMG						
25.5 - 63.2: Hypidiomorphic granular quartz diorite. Bimodal distribution; plagioclase 2 to 3 mm with hornblende 1 to 2mm. Quartz phenocrysts rare, mainly as groundmass. Initial section propylitically altered with chloritized mafics, epidote replacing mafics and some plag. Pyrite partially replacing mafics. Very wdely spaced quartz veins to 4mm, no more than a couple per metre. Grain size decreasing down the hole.										
<<Min: 25.5 - 46: 4% pyrite / 5% epidote / 3% zeolite>> Pyrite mainly replacing primary mafic minerals. Very minor dry fractures. Epidote replaces mafic minerals and some plag grains. Zeolite in veins forming anastomosing webs and isolated fracture fillings to 1 cm thick.										
<<Min: 46 - 50: 8% pyrite / 3% zeolite>>										
<<Min: 50 - 56: 4% pyrite / 3% zeolite>>										



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-04A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 56 - 73.5: 8% pyrite / 3% zeolite>> <<Struc: 25.5 - 28: weak to moderate Fault Zone 60 deg. >> Moderate fracture zone with local gouge. Angle to CA about 60 degrees <<Struc: 31.5 - 31.5: moderate to strong Fault Zone 55 deg. >> <<Struc: 38.5 - 38.6: intense Gouge 75 deg. >> <<Struc: 50.75 - 50.8: moderate to strong Gouge 45 deg. >> <<Struc: 52 - 52.05: strong Gouge 45 deg. >> <<Struc: 60 - 61: moderate to strong Fault Zone 45 deg. >> 63.20 64.80 ANDS Andesite (General/Massive) grey FG 63.2 - 64.8: Xenolith of highly clay altered and pyritic andesite. Protolith likely fine grained tuff. <<Struc: 63.2 - 64.2: moderate Fault Zone 60 deg. >> 64.80 188.00 QD Quartz Diorite grey FMG										
			180.00	182.00	N253401	0.004	78.4	1.7	4.6	0.008
64.8 - 188: As above. Mainly propylitically altered with sections of closely spaced fractures clay - pyrite altered. Propylitized sections have recognizable mafic minerals that are chloritized and partially replaced by pyrite and lesser epidote. Clay altered sections (SCP) have complete replacement of mafics by pyrite and plagioclases replaced by kaolinite (dickite). Rare quartz veins that pre date SCP overprint.										
			182.00	184.00	N253402	0.007	74.7	1.6	4.2	0.013
			184.00	186.00	N253403	0.006	79	1.7	4.1	0.019
			186.00	188.00	N253404	0.004	88.9	2.3	5.8	0.021
<<Min: 73.5 - 75.3: 4% pyrite / 3% zeolite>> <<Min: 75.3 - 80: 8% pyrite / 3% zeolite>> <<Min: 80 - 99: 5% pyrite / 5% epidote / 3% zeolite>> <<Min: 99 - 101.5: 8% pyrite / 1% epidote / 3% zeolite>> <<Min: 101.5 - 102: 5% pyrite / 3% epidote / 3% zeolite>> <<Min: 102 - 103.3: 8% pyrite / 3% zeolite>> <<Min: 103.3 - 106.5: 5% pyrite / 5% epidote / 3% zeolite>> <<Min: 106.5 - 116: 6% pyrite / 0% epidote / 3% zeolite>> Pyrite replacing mafic minerals <<Min: 116 - 126: 4% pyrite / 0.05% epidote / 3% zeolite / 5% magnetite>> Magnetite replaces mafic minerals and is partially replaced by pyrite. <<Min: 126 - 135: 6% pyrite / 0% epidote / 3% zeolite / 0% magnetite>> <<Min: 135 - 154: 3% pyrite / 0% epidote / 3% zeolite / 4% magnetite>> <<Min: 154 - 160: 5% pyrite / 0% epidote / 3% zeolite / 0% magnetite>> <<Min: 160 - 180: 2% pyrite / 3% epidote / 3% zeolite / 4% magnetite>> <<Min: 180 - 194: 4% pyrite / 0.5% epidote / 3% zeolite / 0% magnetite>> <<Struc: 64.8 - 64.9: moderate to strong Fault Zone 60 deg. >> <<Struc: 72 - 72.1: moderate to strong Gouge 60 deg. >> <<Struc: 73 - 73.15: strong Gouge 45 deg. >>										



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-04A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 75.3 - 78: strong Fault Zone 60 deg. >> Mixed gouge and broken rock <<Struc: 79 - 79.5: strong Gouge 60 deg. >> <<Struc: 80.5 - 81: strong Gouge 60 deg. >> <<Struc: 90 - 91.5: moderate to strong Fault Zone 60 deg. >> <<Struc: 92 - 94: moderate to strong Fault Zone 60 deg. >> <<Struc: 106.5 - 109: moderate to strong Fault Zone 60 deg. >> <<Struc: 118 - 118.5: moderate to strong Gouge 35 deg. >> <<Struc: 120.3 - 120.35: strong Gouge 50 deg. >> <<Struc: 122 - 123: moderate to strong Fault Zone 35 deg. >> <<Struc: 124 - 124.1: moderate to strong Fault Zone 35 deg. >> <<Struc: 127.5 - 127.7: moderate Fault Zone 20 deg. >> <<Struc: 128.5 - 128.6: moderate to strong Fault Zone 20 deg. >> <<Struc: 132 - 132.05: strong Gouge 20 deg. >> <<Struc: 134 - 134.05: strong Gouge 20 deg. >> <<Struc: 150 - 150.15: moderate to strong Fault Zone 75 deg. >> <<Struc: 156.4 - 156.6: strong Gouge 60 deg. >> <<Struc: 166.5 - 166.7: moderate Fault Zone 70 deg. >>										
188.00	189.20	DYKE Dyke (mafic)	green	VFG	N253405	0.004	80.4	1.8	3.6	0.016
188 - 189.2: Very fine grained, dark green porphyry with feldspar phenocrysts in an apanitic groundmass.										
189.20	216.00	QD Quartz Diorite	grey	FMG	N253407	0.007	88.1	2	3.6	0.022
189.2 - 216: Quartz diorite medium grey colour. Hypidiomorphic granual texture with bimodal crystals consisting of larger felpspar and smaller mafics. Silica clay pyrite alteration overprints the earlier propylitic alteration. Mafics are replaced by pyrite and clay minerals. Feldspars are altered to clay and are soft and easily scratched.										
<<Min: 194 - 214: 7% pyrite / 0% epidote / 3% zeolite / 0% magnetite / 0% anhydrite>>										
<<Min: 214 - 354: 8% pyrite / 0% epidote / 3% zeolite / 0% magnetite>> First appearance of anhydrite in 1 to 2 mm veins of grey coloured anhydrite.										
<<Struc: 194.6 - 195: moderate to strong Fault Zone 60 deg. >>										
<<Struc: 196 - 196.15: moderate Fault Zone 35 deg. >>										
<<Struc: 200 - 201: weak to moderate Brittle Fracture 60 deg. >>										
<<Struc: 214 - 214.2: moderate to strong Gouge 60 deg. >>										
192.00	194.00	N253408	0.004	68.5	1.9	3.2	0.022			
194.00	196.00	N253409	0.004	60.4	1.9	5.6	0.019			
196.00	198.00	N253410	0.006	69.2	2.4	5.6	0.026			
198.00	200.00	N253411	0.003	63.8	2.5	5.5	0.016			
200.00	202.00	N253412	0.004	84.3	2.7	5.8	0.032			
202.00	204.00	N253414	0.004	93.8	2.9	5.7	0.02			
204.00	206.00	N253415	0.005	83.4	3	6.2	0.024			
206.00	208.00	N253416	0.004	78.3	3	5.1	0.022			
208.00	210.00	N253417	0.004	89.9	2.8	6.3	0.021			
210.00	212.00	N253418	0.003	74.3	2.4	6.3	0.025			

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
216.00	242.00	ANTF Tuffaceous Andesite								
		216 - 242: Light to medium grey, lapilli to crystal ash-tuff. Strong silica clay pyrite over print. Pervasive silicification present in sections. Pyrite mainly as replacements of primary mafic minerals with minor hairline pyrite stringers. First appearance of hairline to 2 mm thick anhydrite veins.								
		grey								
			212.00	214.00	N253420	0.005	73	3.5	5.6	0.022
			214.00	216.00	N253421	0.004	66.4	2.7	7	0.012
			216.00	218.00	N253422	0.002	48.4	2.2	8.2	0.013
			218.00	220.00	N253423	0.002	57.8	2.1	6.8	0.006
			220.00	222.00	N253424	0.003	45.3	2	7.5	-0.005
			220.00	222.00	N253425	0.002	52.6	1.8	7.4	-0.005
			222.00	224.00	N253426	0.004	44.8	1.8	7.3	0.006
			224.00	226.00	N253427	-0.002	60.4	1.8	6.7	-0.005
			226.00	228.00	N253428	0.004	48.3	1.8	8.1	0.017
			228.00	230.00	N253429	0.003	50	1.5	7.4	-0.005
			230.00	232.00	N253430	0.005	57.9	1.5	8	-0.005
			232.00	234.00	N253431	0.006	71	1.9	8	-0.005
			234.00	236.00	N253433	0.003	65.2	3	6.9	0.016
			236.00	238.00	N253434	0.002	43.3	3.3	6.8	0.016
			238.00	240.00	N253435	0.003	73.9	2	7.1	0.013
			238.00	240.00	N253436	-0.002	88	2.4	7.2	0.01
			240.00	242.00	N253437	0.003	52.6	3	6	0.038
242.00	246.40	ANFX Feldspar-phyric Andesite								
		242 - 246.4: Light to medium grey crystal ash tuff composed of 30 percent broken feldspar phenocrysts in a grey siliceous ground mass. Felspars are nearly completely altered to clay. The ground mass is locally replaced by silica and or clay. Pyrite mainly as replacement of what is supposed to have been mafic minerals in the ground mass. Lesser hairline thick pyrite veins. Anhydrite veins common and are dark grey in colour.								
		grey								
		FMG								
			242.00	244.00	N253438	-0.002	47.9	2	7.5	0.016
			244.00	246.00	N253439	0.002	38.7	2.4	7.9	0.008
			246.00	248.00	N253440	0.003	70.1	1.8	6	-0.005
246.40	252.00	ANFX Feldspar-phyric Andesite								
		246.4 - 252: As above, but finer grained shows some layering, indistinct.								
		grey								
		VFG								
			248.00	250.00	N253441	0.004	38.9	2.6	5.8	-0.005
			250.00	252.00	N253443	0.006	87.7	2.6	6.7	0.009
252.00	268.00	ANTF Tuffaceous Andesite								
		252 - 268: As above. Intense silica clay pyrite alteration.								
		grey								
			252.00	254.00	N253444	0.003	82.5	2.9	7.9	0.01
			254.00	256.00	N253445	0.002	84.9	2.6	8.3	0.026
		<<Struc: 260 - 260.1: moderate to strong Fault Zone 35 deg. >>								

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			256.00	258.00	N253446	0.002	52.3	3.7	8.6	0.034
			258.00	260.00	N253447	0.003	25	5.8	9.4	0.019
			258.00	260.00	N253448	-0.002	1.9	-0.1	-0.1	-0.005
			260.00	262.00	N253449	0.002	31.5	1.7	9.2	0.017
			262.00	264.00	N253450	-0.002	28.3	2.4	8.7	0.032
			264.00	266.00	N253451	0.002	20.6	3.9	9.1	0.017
			266.00	268.00	N253452	0.003	21.6	4	9	0.013
268.00	307.30	ANFX Feldspar-phyric Andesite grey VFG	268.00	270.00	N253453	0.004	49.3	2.7	7.7	0.011
268 - 307.3: Light to medium grey, very fine grained crystal ash tuff as above. Minor chloritization of groundmass. Pyrite is the only sulphide occurs as above.										
<<Struc: 282 - 282.05: moderate to strong Fault Zone 65 deg. >>										
<<Struc: 300 - 301: moderate to strong Fault Zone 55 deg. >>										
<<Struc: 304.5 - 304.6: moderate Fault Zone 60 deg. >>										
<<Struc: 306.5 - 306.55: moderate Fault Zone 35 deg. >>										
			270.00	272.00	N253454	0.004	49.8	1.7	7.3	0.011
			270.00	272.00	N253455	0.003	51.4	2.1	7.4	0.01
			272.00	274.00	N253456	0.003	49.3	2.9	8	0.011
			274.00	276.00	N253457	0.005	77.9	2.8	7.4	0.008
			276.00	278.00	N253458	0.005	45.1	2.6	6.4	0.008
			278.00	280.00	N253459	0.005	30.8	4	6.8	0.043
			280.00	282.00	N253461	0.003	63.8	4.3	7.3	0.016
			282.00	284.00	N253462	0.006	106.2	8.3	5.6	0.036
			284.00	286.00	N253463	0.003	63.4	6.1	5.6	0.021
			286.00	288.00	N253464	0.004	36.3	15.8	5.5	0.061
			288.00	290.00	N253465	0.003	49.1	3.3	4.1	0.009
			290.00	292.00	N253467	0.005	111.2	43.8	5.6	0.408
			292.00	294.00	N253468	0.004	236.2	50.8	7.4	0.276
			294.00	296.00	N253469	0.008	122.8	28.9	6.1	0.121
			296.00	298.00	N253470	0.009	101	21.1	5.2	0.103
			298.00	300.00	N253471	0.006	76	17.6	6.2	0.063
			300.00	302.00	N253473	0.003	78.4	12.7	5.9	0.062
			302.00	304.00	N253474	0.003	176.1	9.1	7.6	0.066
			304.00	306.00	N253475	0.002	199.2	9.7	7.3	0.064
			306.00	308.00	N253476	0.002	147.2	9.6	6.3	0.064
307.30	346.50	ANTF Tuffaceous Andesite grey	308.00	310.00	N253477	0.003	65.8	15.6	4.3	0.062
307.3 - 346.5: As above. Pyrite stringers increase below 312 metres.										
<<Alt: 325.4 - 330: / intense Silica-Clay-Py>> Intense pyritization to semi massive sulphides with pervasive silica replacement of the host rock.										
			308.00	310.00	N253478	0.003	58.1	14.2	3.6	0.072

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			310.00	312.00	N253479	0.003	90.5	65.2	6.9	0.434
			312.00	314.00	N253480	0.002	107.5	53.2	7.7	0.466
			314.00	316.00	N253481	-0.002	92.4	11.4	6.2	0.09
			316.00	318.00	N253482	0.002	106.1	33.1	4.6	0.361
			318.00	320.00	N253483	0.003	73.4	16.8	5.4	0.053
			320.00	322.00	N253485	-0.002	48.5	6.4	4.1	0.017
			322.00	324.00	N253486	0.003	50.6	7.6	5	0.02
			324.00	326.00	N253487	0.003	48.3	70.7	5.1	0.719
			326.00	328.00	N253488	0.005	105.9	14.4	6.2	0.098
			328.00	330.00	N253489	0.006	83.8	5.6	6.1	0.06
			330.00	332.00	N253491	0.004	73.2	2.8	3.7	0.027
			332.00	334.00	N253492	0.004	52.4	10.9	3.3	0.036
			334.00	336.00	N253493	0.006	59.8	3	5.6	0.069
			336.00	338.00	N253494	0.005	46.2	3.9	4.5	0.034
			338.00	340.00	N253495	0.007	59.1	6.3	4.5	0.058
			340.00	342.00	N253496	0.009	121.8	3.5	4.7	0.08
			342.00	344.00	N253497	0.004	77.2	2.9	4.3	0.006
			344.00	346.00	N253498	0.003	70.7	9.6	4.7	0.035
			344.00	346.00	N253499	0.003	83.4	9.9	4.8	0.035
			346.00	348.00	N253500	0.003	60.4	8.3	3.7	0.043
346.50	348.60	QD Quartz Diorite								
		grey FG								
346.5 - 348.6: Fine grained quartz diorite. Propylitically altered to chlorite sericite altered due to overprinting of SCP alteration.. No epidote or magnetite. Upper contact is a fault and lower is sharp with chilled margin. Both contacts are at 45 degrees to core axis.										
<<Struc: 346.5 - 346.51: moderate Shear zone 45 deg. >> Sheared contact										
348.60	356.00	ANTF Tuffaceous Andesite								
		grey								
348.6 - 356: As above. Strong overprint of SCP on to earlier CMG or Propylitic alteration.										
<<Min: 354 - 368: 2% pyrite / 0% epidote / 3% zeolite / 4% magnetite / 0% anhydrite>>										
<<Struc: 348.6 - 348.65: strong Contact 45 deg. >> Contact sharp of dyke.										
356.00	367.20	QD Quartz Diorite								
		grey FMG								
356 - 367.2: As above, bimodal feldspar and mafic minerals. Mafics are replaced by chlorite, magnetite and lesser pyrite. Both contacts have chilled margins and are at 50 degrees to the core axis. Anhydrite veining is absent.										
<<Struc: 356 - 356.05: strong Contact 50 deg. >> Dyke contact										
			350.00	352.00	N253502	0.004	52.9	2.8	4	0.007
			352.00	354.00	N253503	0.002	69.5	2.4	3.7	-0.005
			354.00	356.00	N253504	0.002	73.1	2	4.3	0.006
			356.00	358.00	N253506	0.004	61.6	1.8	3	-0.005
			358.00	360.00	N253507	0.003	56.2	2.4	3	0.014

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			360.00	362.00	N253508	0.003	56.4	2.5	1.7	0.008
			362.00	364.00	N253509	0.003	56.4	1.6	1.9	0.008
			364.00	366.00	N253510	0.002	49.4	1.7	1.6	0.007
			366.00	368.00	N253512	0.002	48.1	1.7	3.4	-0.005
367.20	369.00	ANTF Tuffaceous Andesite								
		grey								
367.2 - 369: As above. Alteration is SCP with strong silicification of the groundmass.										
<<Min: 368 - 375.5: 6% pyrite / 0% epidote / 3% zeolite / 0% magnetite>>										
<<Struc: 367.2 - 367.25: strong Contact 55 deg. >> Sharp contact with dyke and wall rock										
369.00	371.40	QD Quartz Diorite								
		grey								
		FMG								
369 - 371.4: As above, mainly CMG / PRO alteration with overprint of SCP.										
<<Struc: 369 - 369.05: strong Contact 65 deg. >> Contact sheared										
371.40	375.50	ANTF Tuffaceous Andesite								
		grey								
371.4 - 375.5: As above. Includes a 30cm dyke at 374.5. Alteration is SCP.										
<<Struc: 371.4 - 371.45: strong Contact 60 deg. >> Chilled margin on dyke										
375.50	383.00	QD Quartz Diorite								
		green								
		FMG								
375.5 - 383: As above. Propylitic to CMG alteration. Magnetite present with traces of epidote. Magnetite replaces mafic minerals and pyrite is replacing magnetite.										
<<Min: 375.5 - 383: 2% pyrite / 0.5% epidote / 3% zeolite / 5% magnetite>>										
<<Struc: 375.5 - 375.55: strong Contact 45 deg. >> Dyke has chilled margin ovre a few cm										
			378.00	380.00	N253519	0.002	51.6	2.3	3.1	-0.005
			378.00	380.00	N253520	0.003	57.2	1.6	3.1	-0.005
			380.00	382.00	N253521	0.003	49	2	4	-0.005
			382.00	384.00	N253522	0.004	38.3	1.6	3.8	-0.005
383.00	407.00	ANTF Tuffaceous Andesite								
		grey								
383 - 407: As above. SCP alteration with minor anhydrite veining.										
<<Min: 383 - 406: 6% pyrite / 0% epidote / 3% zeolite / 0% magnetite>>										
<<Min: 406 - 421.5: 3% pyrite / 0% epidote / 3% zeolite / 0.5% magnetite>>										
<<Struc: 383 - 383.05: strong Contact 60 deg. >> Dyke has chilled margin										
<<Struc: 385.5 - 385.55: moderate to strong Gouge 70 deg. >>										
<<Struc: 405.5 - 405.6: moderate to strong Fault Zone 60 deg. >>										
			384.00	386.00	N253523	0.003	38.3	3	4.4	-0.005
			386.00	388.00	N253524	0.003	49.1	3	3.9	-0.005
			388.00	390.00	N253525	0.004	48.9	2.8	4.9	0.006
			390.00	392.00	N253527	-0.002	24.7	0.7	5.5	-0.005
			392.00	394.00	N253528	0.004	49.1	3.9	3.4	-0.005
			394.00	396.00	N253529	-0.002	59.7	4.1	3.9	0.006
			396.00	398.00	N253530	-0.002	48.9	3.6	4.1	-0.005
			398.00	400.00	N253531	-0.002	32.1	1.7	3.9	-0.005
			400.00	402.00	N253533	-0.002	38.3	1.4	5	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
407.00	421.50	QD Quartz Diorite								
407 - 421.5: As above. Primary propylitic alteration over printed by later SCP. Little magnetite present and no epidote.										
<<Struc: 407.8 - 408.3: moderate to strong Fault Zone 60 deg. >>										
			402.00	404.00	N253534	-0.002	32.8	1.3	5.5	-0.005
			404.00	406.00	N253535	0.002	52	2.1	3.9	0.005
			406.00	408.00	N253536	-0.002	49.2	3.1	3.9	-0.005
			408.00	410.00	N253537	0.003	41.8	8.8	5.1	-0.005
			410.00	412.00	N253538	0.002	38.4	1.1	3.2	-0.005
			412.00	414.00	N253540	-0.002	48.8	2.1	3.8	-0.005
			414.00	416.00	N253541	0.003	60.9	1.3	3.6	-0.005
			416.00	418.00	N253542	0.002	42.9	1.2	3.7	-0.005
			418.00	420.00	N253543	0.002	46.8	1.2	3	-0.005
			420.00	422.00	N253544	-0.002	32.9	1.7	3	-0.005
			420.00	422.00	N253545	-0.002	44.8	1.8	3.1	-0.005
			422.00	424.00	N253546	0.004	42.5	2.2	4.5	-0.005
421.50	424.00	ANTF Tuffaceous Andesite								
421.5 - 424: As above. Moderate to strong SCP.										
<<Min: 421.5 - 424: 6% pyrite / 0% epidote / 3% zeolite / 0% magnetite>>										
<<Struc: 421.5 - 421.55: strong Contact 45 deg. >>										
424.00	612.00	PQD Porphyritic Quarz Diorite								
424 - 612: Green coloured, crowded porphyry composed of lath-like plagioclase, altered mafics and very occational quartz phenocrysts in a fine grained to granular groundmass. Significant epidote is present in the first metres of the contact giving the rock a distinctive pistachio green colour. The contact is a significant fault zone with numerous sections of gouge. By 430 the the rock has a cataclastic texture. From 438 to 441 metres the core is traversed by a 15 cm basalt dyke. Localized in a shear. Late zeolite - carbonate veining common in the fault zone. The ground mass has patches where the feldspars of the groundmass are salmon pink, suggesting incipient Kspar alteration. This gives the core a mottled green and pink colour. Epidote decreases down the hole as does pyrite while magnetite as disseminated grains replacing mafic minerals.										
<<Min: 424 - 446: 2% pyrite / 10% epidote / 10% zeolite / 0% magnetite>>										
<<Min: 446 - 452: 2% pyrite / 5% epidote / 10% zeolite / 2% magnetite>>										
<<Min: 452 - 482: 2% pyrite / 1% epidote / 3% zeolite / 5% magnetite / 0% anhydrite>>										
<<Min: 482 - 540: 2% pyrite / 2% epidote / 3% zeolite / 5% magnetite / 0% anhydrite / 0% chalcopyrite>>										
<<Min: 540 - 568: 3% pyrite / 2% epidote / 3% zeolite / 5% magnetite / 0% anhydrite / 0.1% chalcopyrite>> Chalcopyrite in white veins cutting the core at 50 degrees. Widely spaced at 1 per metre or greater.										
<<Min: 568 - 599: 3% pyrite / 2% epidote / 3% zeolite / 5% magnetite / 0% anhydrite>> Pyrite decreases towards lower contact of this interval.										
<<Min: 599 - 612: 1% pyrite / 5% epidote / 3% zeolite / 8% magnetite / 0% anhydrite>>										
<<Struc: 424 - 424.5: intense Fault Zone 50 deg. >> Major fault zone marks contact with porphyritic quartz diorite										
<<Struc: 431.5 - 432: intense Fault Zone 60 deg. >>										
			424.00	426.00	N253547	0.011	68.6	5.5	1.7	-0.005
			426.00	428.00	N253548	0.012	37.8	6.6	2.2	-0.005
			428.00	430.00	N253549	0.092	22.8	9.6	1.8	0.008
			430.00	432.00	N253551	0.032	31	3.4	1.4	-0.005
			432.00	434.00	N253552	0.03	84.1	3	1.6	-0.005
			434.00	436.00	N253553	0.012	65.1	2.1	2.3	-0.005
			436.00	438.00	N253554	0.004	34.2	1.9	1.3	-0.005
			438.00	440.00	N253555	0.019	35.5	2.1	3.6	-0.005
			440.00	442.00	N253557	0.019	44.9	2.3	1.9	-0.005
			442.00	444.00	N253558	0.021	70.2	4.9	2.6	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 438 - 450: intense Shear zone 20 deg. >>		Intense shear zone with cataclastic textures. Thin dyke intrudes along the shear zone.	444.00	446.00	N253559	0.007	61.6	2.2	1.6	-0.005
<<Struc: 451.5 - 453: moderate to strong Breccia 25 deg. >>		Fault breccia	446.00	448.00	N253560	0.025	54.5	2.9	3	-0.005
<<Struc: 453 - 460: moderate to strong Brittle Fracture 25 deg. >>			448.00	450.00	N253561	0.015	97.2	2.8	2.6	-0.005
<<Struc: 460 - 462: moderate to strong Breccia 45 deg. >>		Fault breccia	450.00	452.00	N253563	0.013	389.9	8.4	2.3	-0.005
<<Struc: 552 - 552.6: moderate to strong Fault Zone 10 deg. >>		Fault zone nearly parallel to CA	452.00	454.00	N253564	0.007	160.2	4.2	2.9	-0.005
			454.00	456.00	N253565	0.008	52.4	3.5	2.7	-0.005
			456.00	458.00	N253566	0.005	67	2.8	2.3	-0.005
			458.00	460.00	N253567	0.017	299.8	8.7	2.7	-0.005
			460.00	462.00	N253568	0.006	101.6	5.5	2.3	-0.005
			462.00	464.00	N253570	0.002	49.2	2	2.1	-0.005
			464.00	466.00	N253571	-0.002	62.8	1.9	0.7	-0.005
			466.00	468.00	N253572	-0.002	64.9	3	0.5	-0.005
			468.00	470.00	N253573	-0.002	56.2	2.4	0.6	-0.005
			470.00	472.00	N253574	-0.002	152	2.9	1.1	-0.005
			472.00	474.00	N253576	-0.002	52.9	2.5	0.8	-0.005
			474.00	476.00	N253577	-0.002	64.6	2.9	0.9	-0.005
			476.00	478.00	N253578	-0.002	64.9	3.4	0.8	-0.005
			478.00	480.00	N253579	-0.002	60.3	4.1	1.4	-0.005
			480.00	482.00	N253580	0.003	63.1	3.1	1.4	-0.005
			482.00	484.00	N253581	-0.002	59.3	3.6	1	-0.005
			484.00	486.00	N253582	-0.002	66.8	3.1	0.8	-0.005
			486.00	488.00	N253584	-0.002	49.4	3	0.8	-0.005
			488.00	490.00	N253585	0.002	91.2	3.9	1.3	-0.005
			490.00	492.00	N253586	0.003	86.2	5.5	1.6	-0.005
			492.00	494.00	N253656	-0.002	70.9	3.1	1	-0.005
			494.00	496.00	N253587	0.002	49.2	2.3	0.2	-0.005
			496.00	498.00	N253588	-0.002	60.8	2.7	0.3	-0.005
			498.00	500.00	N253590	0.002	55.4	2.5	0.4	-0.005
			500.00	502.00	N253591	-0.002	45	2.4	0.2	-0.005
			502.00	504.00	N253592	-0.002	53.3	2.2	0.1	-0.005
			504.00	506.00	N253593	0.003	53.8	2.3	0.3	-0.005
			506.00	508.00	N253594	0.002	55.3	2.3	0.7	-0.005
			508.00	510.00	N253596	-0.002	62.7	2.7	0.5	-0.005
			510.00	512.00	N253597	0.002	69	2.7	0.8	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			512.00	514.00	N253598	-0.002	61.6	2.6	0.6	-0.005
			514.00	516.00	N253599	-0.002	74.8	3	0.3	-0.005
			516.00	518.00	N253600	-0.002	57.4	2.5	0.5	-0.005
			518.00	520.00	N253601	-0.002	66.1	2.8	0.2	-0.005
			520.00	522.00	N253603	0.003	56.8	2.3	0.9	-0.005
			522.00	524.00	N253604	0.002	140.9	2.3	1.1	-0.005
			524.00	526.00	N253605	0.002	67.2	2.8	1	-0.005
			526.00	528.00	N253606	-0.002	74.3	2.4	0.6	-0.005
			528.00	530.00	N253607	-0.002	62.6	2.3	0.1	-0.005
			530.00	532.00	N253608	0.003	60.8	2.5	0.8	-0.005
			532.00	534.00	N253609	-0.002	61.8	2.2	0.8	-0.005
			534.00	536.00	N253611	0.004	65.7	4.3	1.8	-0.005
			536.00	538.00	N253612	0.009	102.4	5.7	0.8	-0.005
			538.00	540.00	N253613	0.003	109.9	9.3	0.9	0.007
			540.00	542.00	N253614	0.005	84.6	7.5	1.6	0.005
			542.00	544.00	N253615	0.005	76.7	3.3	1.1	-0.005
			544.00	546.00	N253617	0.004	81.9	2.8	1	-0.005
			546.00	548.00	N253618	-0.002	60.1	1.7	1.2	-0.005
			548.00	550.00	N253619	-0.002	65.3	2.3	1.3	-0.005
			550.00	552.00	N253620	0.006	85.2	11.9	2.2	-0.005
			552.00	554.00	N253621	0.006	65.2	14.8	2.3	0.007
			554.00	556.00	N253622	0.003	289.2	3	1.8	-0.005
			556.00	558.00	N253624	0.003	324.3	6.4	2.2	-0.005
			558.00	560.00	N253625	0.002	80.6	2.3	1.6	-0.005
			560.00	562.00	N253626	-0.002	74	2.4	1.8	-0.005
			562.00	564.00	N253627	0.004	65.3	2	1.6	-0.005
			564.00	566.00	N253628	0.005	92.6	3.8	1.8	-0.005
			566.00	568.00	N253629	0.002	75.3	2.7	1.3	-0.005
			568.00	570.00	N253630	0.004	74.2	3.4	1.8	-0.005
			570.00	572.00	N253632	0.002	63.9	2.1	1.9	-0.005
			572.00	574.00	N253633	-0.002	67.9	2.1	0.9	-0.005
			574.00	576.00	N253634	0.003	63.9	2	1.7	-0.005
			576.00	578.00	N253635	0.003	84.8	3	1.3	-0.005
			578.00	580.00	N253636	0.003	84.6	4.3	1.9	-0.005



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-04A

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			580.00	582.00	N253638	-0.002	61.1	2.9	2.4	-0.005
			582.00	584.00	N253639	0.002	68.3	3.5	2.3	-0.005
			584.00	586.00	N253640	-0.002	204.4	2.5	1.7	-0.005
			586.00	588.00	N253641	0.004	52.4	2.8	1.4	-0.005
			588.00	590.00	N253642	0.003	54.4	2.9	1.1	-0.005
			590.00	592.00	N253644	0.003	57.4	2.5	0.3	-0.005
			592.00	594.00	N253645	-0.002	62.8	3	0.1	-0.005
			594.00	596.00	N253646	-0.002	69.8	2.3	1.3	-0.005
			596.00	598.00	N253647	-0.002	51.6	2.9	1.8	-0.005
			598.00	600.00	N253648	-0.002	44.7	3	1.3	-0.005
			600.00	602.00	N253649	-0.002	58.1	3.2	1.4	-0.005
			602.00	604.00	N253650	0.002	120.3	3.5	1.3	-0.005
			604.00	606.00	N253651	-0.002	59.1	3.9	0.8	-0.005
			606.00	608.00	N253652	-0.002	43.1	3.2	1.4	-0.005
			608.00	610.00	N253654	-0.002	46.4	3.4	1.4	-0.005
			610.00	612.00	N253655	0.002	30.3	3	1.4	-0.005
End of Hole @ 612										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-05

Prospect:		Survey Type:	GPS	Logged By:	BG
Grid:	NAD83_Z9	Survey By:	BG	Date Started:	12/11/2018
Easting:	587409	Azimuth:	45	Date Completed:	23/11/2018
Northing:	5609691	Dip:	-70	Drill Company:	Dorado
Elevation (m):	382	Length (m):	573	Drill Rig:	
Hole Type:	DD			Drill Started:	10/11/2018
Hole Diameter:				Drill Completed:	23/11/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input type="checkbox"/>				
Casing Depth (m):	8				

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
60	-70	18.2	17.5	35.7	ReflexEZS		12/11/2018	54849	<input type="checkbox"/>	
102	-70.3	19	17.5	36.5	ReflexEZS		13/11/2018	54821	<input type="checkbox"/>	
243	-71	19.7	17.5	37.2	ReflexEZS		15/11/2018	55011	<input type="checkbox"/>	
339	-71.2	20.4	17.5	37.9	ReflexEZS		18/11/2018	54138	<input type="checkbox"/>	
381	-71.1	21.9	17.5	39.4	ReflexEZS		18/11/2018	5188	<input type="checkbox"/>	
522	-70.4	26.4	17.5	43.9	ReflexEZS		21/11/2018	53963	<input type="checkbox"/>	
570	-69.9	29.8	17.5	47.3	ReflexEZS		23/11/2018		<input type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	8.00	OVER Overburden								
0 - 8: mixed boulders										
8.00	27.80	ANTF Tuffaceous Andesite buff	9.00	11.00	N255585	0.003	57.9	3.4	1.6	0.013
8 - 27.8: Andesite tuff (ash flow tuff). Feldspar phyrlic groundmass with subangular fragments to 2cm. Chlorite-magnetite replacement of fragments from 17.8-19.0m. Disseminated and wispy pyrite. Core is broken with several dm-scale clay-pyrite gouge zones. Strongly to partially oxidized to 18m. Locally vuggy from washed out clay to 21m.										
<<Min: 8 - 12.5: 2% pyrite / 4% goethite>>										
<<Min: 12.5 - 17.8: 2% pyrite / 1% goethite>>										
<<Min: 17.8 - 19: 4% pyrite / 3% magnetite>>										
<<Min: 19 - 36: 4% pyrite>>										
			11.00	13.00	N255586	0.003	71	3.7	1.8	0.012
			13.00	15.00	N255587	0.003	78.4	2.6	0.6	-0.005
			15.00	17.00	N255588	0.003	71	7.7	2.7	0.017
			17.00	19.00	N255589	0.003	54.9	2.9	1.2	0.013

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 8 - 16: moderate to strong Silica-Clay-Py / moderate Leached>>			19.00	21.00	N255591	0.004	67.3	3	1.8	0.031
<<Alt: 16 - 18: moderate to strong Silica-Clay-Py / weak Leached>>			21.00	23.00	N255592	0.003	77	5.3	3.1	0.02
<<Alt: 18 - 19.8: moderate to strong Silica-Clay-Py / weak Chlorite-Magnetite (+/- Si)>>			23.00	25.00	N255593	0.002	56.4	3.3	3.8	0.013
<<Alt: 19.8 - 27.8: moderate to strong Silica-Clay-Py>>			25.00	27.00	N255594	0.002	56.1	3.7	3.9	-0.005
<<Vein: 19 - 36: 1% Pyrite / 2% Goethite>>			27.00	29.00	N255595	0.002	51.9	3.3	3.4	-0.005
<<Struc: 13.6 - 16.05: strong Fault Zone / Local Gouge>>										
<<Struc: 16.05 - 16.1: strong Gouge 70 deg. >>										
<<Struc: 21 - 21.4: strong Fault Zone / strong Local Gouge 60 deg. >>										
<<Struc: 22.5 - 22.58: strong Gouge 80 deg. >>										
<<Struc: 22.58 - 24.15: moderate Brittle Fracture / weak to moderate Local Gouge>>										
<<Struc: 24.15 - 24.2: strong Gouge 85 deg. >>										
27.80	31.50	FP Feldspar Porphyry	buff	29.00	31.00	N255596	0.002	55.6	3.6	3.9 -0.005
27.8 - 31.5: Fine to medium grained. Occasional fg quartz eyes. Pyrite mainly as disseminated clots replacing mafics. Chilled contacts over about 30cm.										
<<Alt: 27.8 - 31.5: moderate Silica-Clay-Py>>			31.00	33.00	N255598	0.002	54.8	3.3	4.1	-0.005
31.50	36.15	ANTF Tuffaceous Andesite	buff	33.00	35.00	N255599	0.003	53.2	3.5	3.3 -0.005
31.5 - 36.15: As per interval 8.0-27.8m. Core remains fractured and broken with local clay-pyrite gouge.										
<<Min: 36 - 46: 8% pyrite / 2% zeolite>>			35.00	37.00	N255600	0.003	54.1	4.8	4.5	0.018
<<Alt: 31.5 - 38: strong Silica-Clay-Py>>										
<<Vein: 36 - 72: 2% Pyrite / 2% Calcium carbonate/Carbonate>>										
<<Struc: 33.15 - 33.8: moderate Brittle Fracture / moderate Local Gouge>>										
<<Struc: 34.7 - 34.9: moderate to strong Brittle Fracture 10 deg. >>										
36.15	39.45	ANTF Tuffaceous Andesite	buff	37.00	39.00	N255601	0.006	64.9	6.8	4.6 -0.005
36.15 - 39.45: Tuff breccia. Buff to cream coloured. Mostly subangular fragments to 4cm. Very strong clay alteration of groundmass. Fault contacts. Brittle fractured with numerous cm-scale clay-pyrite fault gouge slips at 30 to CA.										
<<Struc: 36.15 - 39.45: moderate to strong Brittle Fracture 30 deg. / moderate Local Gouge>>			39.00	41.00	N255602	0.004	54.4	4	5	-0.005
39.45	51.00	ANTF Tuffaceous Andesite	buff	41.00	43.00	N255603	0.002	57.5	3.1	4.2 -0.005
39.45 - 51: Andesite Tuff. Feldspar phyric with subrounded fragments to 3cm. Locally strongly clay altered. Disseminated and wispy pyrite. Zeolite stringers become more abundant down hole.										
<<Min: 46 - 58: 8% pyrite / 6% zeolite>>			43.00	45.00	N255604	0.002	56	3.1	5.9	-0.005
<<Struc: 42.4 - 42.6: moderate Brittle Fracture 30 deg. >>			45.00	47.00	N255605	-0.002	76.1	2.5	5.9	-0.005
<<Struc: 46 - 46.1: strong Gouge 15 deg. >>			47.00	49.00	N255606	0.003	176.7	2.1	7.7	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
51.00	77.70	ANTF Tuffaceous Andesite buff	49.00	51.00	N255607	0.003	77.4	1.4	7.5	-0.005
			51.00	53.00	N255608	0.003	86.6	1.9	9.6	0.005
51 - 77.7: Tuff Breccia, possibly of hydrothermal origin. Polyolithic subrounded to subangular to angular fragments to 8cm. Intense clay alteration of matrix. Pyrite mostly within fragments as massive fg disseminations and discontinuous stringers. Rare fg Mo in pale grey silicified fragments at 66.6m and 71.4m. Very strong late zeolite veining cross cuts py and dickite stringers. Upper contact broken and diffuse. Lower contact diffuse. <<Min: 58 - 82: 12% pyrite / 10% zeolite>> <<Vein: 72 - 81.95: 2% Pyrite / 4% Calcium carbonate/Carbonate / 1% Quartz>> <<Struc: 55.1 - 55.5: moderate Local Gouge 55 deg. >> <<Struc: 62.6 - 66: moderate to strong Fault Zone 60 deg. >> Healed fault zone. Pitted from washed out clay and carbonate. <<Struc: 68.25 - 68.65: moderate to strong Fault Zone 60 deg. >>			53.00	55.00	N255609	0.003	64.3	5.4	8.2	-0.005
			55.00	57.00	N255610	0.003	49.3	4.5	7.7	-0.005
			55.00	57.00	N255611	0.003	48	3	6.9	0.005
			57.00	59.00	N255612	0.003	61.7	3.3	8	0.008
			59.00	61.00	N255613	0.002	51.4	3.7	6.5	-0.005
			61.00	63.00	N255614	0.002	82.6	3.8	6.6	-0.005
			63.00	65.00	N255616	0.003	57	10.4	7	0.019
			65.00	67.00	N255617	0.004	77.2	24.8	8.3	0.039
			67.00	69.00	N255618	0.004	71.7	25.7	7.8	0.075
			67.00	69.00	N255619	0.003	77	23.8	8.9	0.081
			69.00	71.00	N255620	0.004	67.7	50	8.5	0.186
			71.00	73.00	N255621	0.003	48.5	39.5	8.9	0.238
			73.00	75.00	N255622	0.003	45.9	22	7.8	0.192
			75.00	77.00	N255623	0.003	40.8	9.6	7.9	0.114
			77.00	79.00	N255625	0.003	90.6	6.3	8.7	0.012
77.70	86.00	ANTF Tuffaceous Andesite buff	79.00	81.00	N255626	0.003	46.6	4.5	7.8	0.009
77.7 - 86: Lapilli Tuff with subrounded to subangular fragments to 6cm. Abundant lime green translucent green clay mineral fro 81.95-86.0m. <<Min: 82 - 86: 12% pyrite / 6% zeolite>> <<Vein: 81.95 - 90: 2% Pyrite / 2% Calcium carbonate/Carbonate / 0.5% Quartz>>			81.00	83.00	N255627	0.002	35.1	5.2	8.7	0.026
			83.00	85.00	N255628	0.002	29.2	8.2	8.8	0.035
			85.00	87.00	N255629	0.002	35.5	9.7	7.2	0.038
86.00	130.50	ANTF Tuffaceous Andesite buff	87.00	89.00	N255630	0.004	50.3	4.2	7.4	0.048
86 - 130.5: Lapilli Tuff with subrounded to subangular fragments to 6cm. Locally remnant feldspar phyrlic nature of groundmass with feldspars replaced by clay. Late zeolite veins are absent after 90.0m. Strongly clay altered with patchy pervasive silicification. Disseminated and wispy pyrite and tr-1% mm-scale wide pyrite and grey quartz veins. Marked increase in brittle fractures with cm-scale wide clay gouge slips from 123.65-130.5m approaching major fault zone downhole. <<Min: 86 - 90: 10% pyrite / 2% zeolite>>			89.00	91.00	N255631	0.004	50.3	4.3	7.5	0.106

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-05

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 90 - 120: 10% pyrite>>			89.00	91.00	N255632	0.004	45.3	4.2	7.6	0.098
<<Min: 120 - 130: 15% pyrite>>			91.00	93.00	N255633	0.01	61.3	8.4	5.8	0.028
<<Min: 130 - 142: 8% pyrite>>			93.00	95.00	N255634	0.01	45.5	6.6	5.6	0.017
<<Alt: 90 - 130.5: intense Silica-Clay-Py>>			95.00	97.00	N255635	0.012	37.1	7.8	5.1	0.035
<<Vein: 90 - 130.5: 3% Pyrite / 1% Quartz>>			97.00	99.00	N255636	0.007	40.1	6.6	6	0.039
<<Struc: 87.35 - 87.4: strong Gouge 70 deg. >>			99.00	101.00	N255637	0.007	41.6	8.5	5.5	0.072
<<Struc: 88.5 - 88.52: moderate to strong Brittle Fracture 40 deg. / moderate Local Gouge 40 deg. >>			101.00	103.00	N255638	0.01	52	6.1	4.7	0.027
<<Struc: 91.5 - 92.25: moderate to strong Fault Zone 50 deg. / moderate to strong Breccia>> Healed fault with fault breccia.			103.00	105.00	N255640	0.012	79.9	6.1	5.4	0.027
<<Struc: 98.9 - 98.9: moderate to strong Brittle Fracture 45 deg. >>			105.00	107.00	N255641	0.015	79.2	9	5.4	0.064
<<Struc: 105.4 - 105.65: strong Gouge 40 deg. >>			107.00	109.00	N255642	0.013	72.1	6.2	5.3	0.123
<<Struc: 121.2 - 121.22: moderate Brittle Fracture 45 deg. / weak to moderate Local Gouge>>			109.00	111.00	N255643	0.011	127.8	4.7	6.5	0.034
<<Struc: 123.65 - 123.67: moderate to strong Brittle Fracture 60 deg. >>			109.00	111.00	N255644	0.64	3822.5	310.7	0.6	0.371
			111.00	113.00	N255645	0.009	87.9	4.9	5.4	0.024
			113.00	115.00	N255646	0.014	106	3.7	5.9	0.008
			115.00	117.00	N255647	0.009	44.9	5.7	5.9	0.007
			117.00	119.00	N255648	0.012	39.1	2.6	6.1	0.018
			119.00	121.00	N255650	0.007	40	3	6.4	0.013
			121.00	123.00	N255651	0.007	46	4.9	6.7	0.027
			123.00	125.00	N255652	0.007	49.2	5.3	5.8	0.049
			125.00	127.00	N255653	0.009	56	4.5	6.2	0.052
			127.00	129.00	N255654	0.013	84.6	3.1	5.9	0.026
			129.00	131.00	N255656	0.019	71.7	4.6	5.6	0.047
130.50 158.25 ANTF Tuffaceous Andesite buff			131.00	133.00	N255657	0.021	99.8	4.6	5.6	0.046
130.5 - 158.25: As above. Major fault zone. Upper contact is a fault contact with gouge zones above th fault at 45-60 deg to CA.										
<<Min: 142 - 158.25: 6% pyrite>>			133.00	135.00	N255658	0.014	112.4	4.3	6.4	0.068
<<Alt: 130.5 - 158.25: moderate to strong Silica-Clay-Py>>			135.00	137.00	N255659	0.006	154	7.5	8.4	0.071
<<Vein: 146 - 158.25: 1% Pyrite / 1% Quartz>>			137.00	139.00	N255660	0.012	161.7	6.6	6.6	0.108
<<Struc: 130.5 - 158.25: moderate to strong Fault Zone>> Major Fault Zone. Core is crushed into mm to 5cm pieces. Most intense crushed zone from 130.5-145.7m.			139.00	141.00	N255662	0.037	197.1	2.8	6.2	0.131
			141.00	143.00	N255663	0.016	243.2	3.1	6.9	0.172
			143.00	145.00	N255664	0.009	195	5.2	7.4	0.326
			145.00	147.00	N255665	0.012	102.8	5.1	6.8	0.21

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-05

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			147.00	149.00	N255667	0.01	69.2	2.5	6.2	0.074
			149.00	151.00	N255668	0.006	60.3	2.8	5.1	0.082
			151.00	153.00	N255669	0.003	23.3	3	5.1	0.011
			153.00	155.00	N255670	0.003	21.9	4	5.4	0.009
			155.00	157.00	N255672	0.004	32.4	3.1	6.1	0.009
			157.00	159.00	N255673	0.003	45.9	1.7	6.2	0.008
			159.00	161.00	N255674	0.003	51.6	1.3	4.8	-0.005
158.25	162.00	QD Quartz Diorite								
158.25 - 162: Massive andesite flow. Relatively unfractured and less altered than tuff.										
<<Min: 158.25 - 184: 4% pyrite>>										
<<Alt: 158.25 - 162: strong Silica-Clay-Py / weak Propylitic>>										
<<Vein: 158.25 - 184: 0.5% Pyrite>>										
			161.00	163.00	N255675	0.003	50.2	1.6	4.2	-0.005
			161.00	163.00	N255676	0.002	1.5	-0.1	-0.1	-0.005
162.00	190.50	ANTF Tuffaceous Andesite								
162 - 190.5: As per interval from 130.5-158.25m. Major fault zone										
<<Min: 184 - 213: 10% pyrite>>										
<<Alt: 162 - 190.5: moderate to strong Silica-Clay-Py>>										
<<Vein: 184 - 213: 2% Pyrite / 1% Quartz>>										
<<Struc: 162 - 190.5: strong Fault Zone>> As above. Major Fault Zone core crushed into mm to 5cm pieces.										
			163.00	165.00	N255677	0.003	63	3.5	6.1	0.018
			165.00	167.00	N255678	0.004	37.9	3.2	3.4	0.026
			167.00	169.00	N255679	0.003	31.9	2.7	6.3	0.101
			169.00	171.00	N255680	0.002	34.7	2.7	6.2	0.03
			171.00	173.00	N255681	0.002	29.2	2.7	7.4	0.025
			173.00	175.00	N255682	0.004	53.1	3.2	6	0.117
			175.00	177.00	N255683	0.005	49.4	2.4	7.5	0.109
			177.00	179.00	N255684	0.004	45.6	2.3	7.3	0.057
			179.00	181.00	N255685	0.005	67.7	2.3	6.7	0.047
			181.00	183.00	N255686	0.005	41.9	2.7	6.3	0.081
			183.00	185.00	N255687	0.008	75.6	2.3	5.7	0.116
			185.00	187.00	N255688	0.585	3791.8	332.5	0.6	0.333
			187.00	189.00	N255690	0.007	128.7	2.2	5.9	0.106
			189.00	191.00	N255691	0.007	135.6	1.9	7	0.077
190.50	213.00	ANTF Tuffaceous Andesite								
190.5 - 213: Ash flow tuff. Fractured and broken with local clay-pyrite gouge. Intensely clay altered with patchy incipient silicification. Pyrite as disseminations and wispy stringers. Trace pale grey mm-scale wide quartz stringers. Faulted lower contact.										
<<Alt: 190.5 - 213: strong Silica-Clay-Py>>										
<<Struc: 208.5 - 213: strong Fault Zone / moderate to strong Local Gouge 50 deg. >> Major Fault Zone with core in mm to 3cm pieces.										
			191.00	193.00	N255692	0.004	69.1	1.5	6.6	0.094
			193.00	195.00	N255693	0.002	42.3	1.3	6.5	0.133
			195.00	197.00	N255694	0.003	48.1	1.4	6.4	0.102

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			197.00	199.00	N255696	0.004	51.8	1.8	7	0.204
			199.00	201.00	N255697	0.004	51.5	2.1	5.6	0.106
			201.00	203.00	N255698	0.004	79.1	3.1	5.5	0.045
			203.00	205.00	N255699	0.003	104.7	2.7	6.1	0.041
			205.00	207.00	N255701	0.004	93.6	2.2	5.5	0.063
			207.00	209.00	N255702	0.003	94.8	2.4	6.9	0.038
			209.00	211.00	N255703	0.003	162.3	1.9	7	0.014
			211.00	213.00	N255705	0.005	116.9	2.6	7.1	0.036
			213.00	215.00	N255706	0.003	142.2	2.6	6.9	0.048
213.00	226.70	ANFX Feldspar-phyric Andesite buff								
213 - 226.7: Feldspar phyric andesite, crystal tuff. Crowded feldspar phyric groundmass, feldspar partially replaced by clay. Interval is a major fault zone with numerous dm-scale wide clay-pyrite gouge. Lower fault contact at 60 deg to CA.										
<<Min: 213 - 226.7: 6% pyrite>>										
<<Alt: 213 - 226.7: moderate to strong Silica-Clay-Py>>										
<<Vein: 213 - 226.7: 1% Pyrite>>										
<<Struc: 213 - 226.7: strong Fault Zone / moderate to strong Gouge 50 deg. >> Continuation of Major Fault Zone.										
			215.00	217.00	N255707	0.002	96.5	2.6	6.9	0.062
			217.00	219.00	N255708	0.003	111	3.1	7.1	0.045
			219.00	221.00	N255709	0.003	79.6	2.9	6.4	0.021
			221.00	223.00	N255711	0.002	63.5	3.2	6.6	0.024
			223.00	225.00	N255712	0.002	76.7	3.2	6.7	0.026
			225.00	227.00	N255713	0.002	70.5	3.8	6.7	0.01
			227.00	229.00	N255714	-0.002	157.6	4.4	7.8	0.009
226.70	242.94	ANTF Tuffaceous Andesite buff								
226.7 - 242.94: Lapilli tuff, subrounded to subangular relict fragments to 6cm. Ubiquitous mm-scale wide cross cutting anhydrite veins. Weak pale brown blotchy pyrophyllite. Continued pervasive fg silicification and intensely silicified pale grey fragments. Tr mm-scale wide white-grey qtz veins. Fg disseminated py masses partially replacing fragments and wispy veins.										
<<Min: 226.7 - 242.94: 8% pyrite / 2% zeolite / 3% anhydrite / 2% pyrophyllite>>										
<<Alt: 239 - 242.94: intense Silica-Clay-Py>>										
<<Vein: 226.7 - 234: 1% Pyrite / 1% Calcium carbonate/Carbonate / 1% Quartz / 3% Gypsum>>										
<<Vein: 234 - 242.94: 2% Pyrite / 1% Quartz / 3% Gypsum>>										
<<Struc: 241.05 - 241.15: moderate Gouge 80 deg. >>										
			227.00	229.00	N255715	0.002	132.4	4.4	7.8	0.006
			229.00	231.00	N255716	0.005	30.3	3.8	4.8	0.011
			231.00	233.00	N255717	0.002	22	3.5	2.6	0.007
			233.00	235.00	N255718	0.003	30.6	3.1	7.2	0.014
			235.00	237.00	N255719	0.005	27.6	7.5	4.5	0.042
			237.00	239.00	N255720	0.005	34.8	2.1	7.2	0.011
			239.00	241.00	N255722	0.003	38.2	4.4	7.3	0.015
			241.00	243.00	N255723	0.003	41	2.3	5.2	0.005
			243.00	245.00	N255724	0.004	71.7	4.7	6.7	0.011
242.94	246.80	ANTF Tuffaceous Andesite buff								
242.94 - 246.8: As above. Broken and faulted interval with crushed and clay-pyrite gouge + fault breccia.										
<<Min: 242.94 - 246.8: 4% pyrite>>										
			245.00	247.00	N255727	0.003	55.1	4.1	5.8	0.007

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 242.94 - 246.8: moderate to strong Silica-Clay-Py>> <<Vein: 242.94 - 246.8: 1% Pyrite>> <<Struc: 242.94 - 243.1: moderate to strong Gouge 80 deg. >> <<Struc: 244.8 - 246.15: moderate Breccia / moderate to strong Local Gouge>> 246.80 252.25 ANTF Tuffaceous Andesite buff										
246.8	252.25	As per 226.7-242.94m. Broken, 1-5mm dark grey quartz veins. Cross cutting pyrite veins; 2 generations.	247.00	249.00	N255726	0.003	54	2.1	6.1	-0.005
<<Min: 246.8 - 259.8: 8% pyrite / 3% anhydrite>> <<Alt: 246.8 - 259.8: intense Silica-Clay-Py>> <<Vein: 246.8 - 259.8: 2% Pyrite / 2% Quartz / 1% Gypsum>> 252.25 278.50 ANTF Tuffaceous Andesite buff										
246.8	252.25	As above. Core fractured and broken with crushed fault zones at 259.8-265.45m and 268.15-274.5m.	249.00	251.00	N255728	0.004	98.9	4.6	6.5	0.02
252.25	278.50		251.00	253.00	N255729	-0.002	47.3	2.8	5.9	0.018
252.25	278.50		253.00	255.00	N255730	0.002	48.2	2.4	5.3	0.012
<<Min: 259.8 - 265.45: 4% pyrite>> <<Min: 265.45 - 278.5: 6% pyrite / 2% anhydrite>> <<Alt: 259.8 - 265.45: moderate to strong Silica-Clay-Py>> <<Alt: 265.45 - 268.15: intense Silica-Clay-Py>> <<Alt: 268.15 - 274.5: moderate to strong Silica-Clay-Py>> <<Vein: 259.8 - 265.45: 1% Pyrite>> <<Vein: 265.45 - 278.5: 1% Pyrite / 1% Quartz / 0.5% Gypsum>> <<Struc: 259.8 - 265.45: moderate to strong Fault Zone / moderate to strong Local Gouge>> Major Fault Zone <<Struc: 268.15 - 274.5: moderate to strong Fault Zone / strong Gouge 55 deg. >> Major Fault Zone										
259.8	265.45		255.00	257.00	N255731	0.003	54.9	1.7	5.7	0.012
265.45	278.5		257.00	259.00	N255733	0.003	62.1	3.9	7.1	0.018
259.8	265.45		259.00	261.00	N255734	0.005	42.7	3.5	6.7	0.016
265.45	268.15		261.00	263.00	N255735	0.003	25.7	2.2	5.4	0.01
268.15	274.5		263.00	265.00	N255736	0.005	43.4	3.6	4.7	0.02
259.8	265.45		265.00	267.00	N255737	0.003	33.5	4.5	6.3	0.027
265.45	278.5		267.00	269.00	N255739	0.003	50	4	5.7	0.014
259.8	265.45		269.00	271.00	N255740	0.005	46.8	5.9	4.8	0.017
268.15	274.5		271.00	273.00	N255741	0.006	73.4	7.9	4.7	0.009
259.8	265.45		273.00	275.00	N255742	0.004	101.9	4.5	4.3	0.01
265.45	278.5		273.00	275.00	N255744	0.202	1930.8	377.5	0.3	0.348
268.15	274.5		275.00	277.00	N255743	0.003	94.5	2.7	5.6	0.009
265.45	278.5		277.00	279.00	N255745	0.003	96.4	1.8	6	0.01
268.15	274.5		279.00	281.00	N255746	0.003	94	2.1	4.6	0.013
278.50 282.30 ANTF Tuffaceous Andesite green 278.5 - 282.3: Ash flow tuff. Weakly chlorite altered with trace wispy epidote and hematite. Locally pitted where clay has washed out.										
278.5	282.3		281.00	283.00	N255747	0.003	95.9	3.9	4.2	0.005
<<Min: 278.5 - 282.3: 6% pyrite / 2% epidote / 1% hematite>> <<Vein: 278.5 - 282.5: 2% Pyrite / 2% Calcium carbonate/Carbonate / 3% Quartz>> 282.30 286.00 ANTF Tuffaceous Andesite buff										
278.5	282.3	282.3 - 286: Ash flow tuff. Fault zone; core crushed and broken with local clay-pyrite gouge.	283.00	285.00	N255748	0.009	120.9	1.5	6	0.012
278.5	282.3		285.00	287.00	N255749	0.005	96	1.4	5.1	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 282.3 - 286: moderate to strong Silica-Clay-Py>>										
286.00	314.40	ANTF Tuffaceous Andesite buff	287.00	289.00	N255751	0.005	90.5	4.2	4.8	0.011
286 - 314.4: Ash flow to lapilli tuff. Pervasive fine grained silicification and dark grey intensely silicified, cherty subrounded to subangular fragments to 4cm. Broken dark grey quartz veins. Abundant crosscutting anhydrite veins. Spotty weak pyrophyllite.										
<<Min: 286 - 314: 10% pyrite / 1% zeolite / 4% anhydrite>>										
<<Vein: 286 - 314.4: 2% Pyrite / 1% Calcium carbonate/Carbonate / 2% Quartz / 4% Gypsum>>										
<<Struc: 288.4 - 289.15: moderate to strong Brittle Fracture 20 deg. / moderate to strong Local Gouge>>										
<<Struc: 298.9 - 299.45: moderate Local Gouge>>										
<<Struc: 312.26 - 313.25: moderate Breccia 30 deg. >>										
			289.00	291.00	N255752	0.007	99.4	15	5.1	0.041
			291.00	293.00	N255753	0.004	56.3	31.6	6	0.038
			293.00	295.00	N255754	0.002	53.2	7.3	6	0.014
			295.00	297.00	N255755	0.003	77.3	5.8	5.8	0.028
			297.00	299.00	N255756	0.003	47	6.2	5.9	0.038
			299.00	301.00	N255758	0.003	47.6	5	6.3	0.029
			301.00	303.00	N255759	0.003	46.8	4.8	6.5	0.029
			303.00	305.00	N255760	0.003	55	4.2	6.1	0.022
			305.00	307.00	N255761	0.003	68.3	2.6	7	0.008
			307.00	309.00	N255762	0.002	86.7	4.3	8.5	0.041
			309.00	311.00	N255764	0.007	57.4	3.4	8.5	0.091
			311.00	313.00	N255765	0.006	52.4	5.2	6.4	0.049
			313.00	315.00	N255766	0.008	77.6	1.9	3.9	-0.005
314.40	315.55	BSLT Basalt (dyke) brown	315.00	317.00	N255767	0.008	84.6	1.7	3.6	-0.005
314.4 - 315.55: Basalt dyke. Contacts chilled over 5-10cm. Lower contact sharp at 35 deg to CA.										
<<Min: 314.4 - 315.55: 1% pyrite / 10% zeolite>>										
<<Vein: 314.4 - 315.55: / 10% Calcium carbonate/Carbonate>>										
<<Struc: 315.54 - 315.55: moderate to strong Contact 35 deg. >> lower contact of basalt dyke										
315.55	320.40	ANTF Tuffaceous Andesite buff	317.00	319.00	N255768	0.006	34.2	2.5	3.4	-0.005
315.55 - 320.4: As per 286.0-314.4m. Weak to moderate pale green chloritization of tuff fragments.										
<<Min: 315.55 - 320.4: 8% pyrite / 1% zeolite / 3% chlorite>>										
<<Vein: 315.55 - 320.4: 2% Pyrite / 1% Calcium carbonate/Carbonate>>										
320.40	321.00	FP Feldspar Porphyry buff	319.00	321.00	N255770	0.006	71.1	2.1	4	-0.005
320.4 - 321: Feldspar porphyry. Upper contact at 70 deg to CA; lower contact broken. No chlorite alteration.										
<<Min: 320.4 - 321: 6% pyrite>>										
<<Alt: 320.4 - 321: strong Silica-Clay-Py>>										
<<Vein: 320.4 - 321: 1% Pyrite>>										

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
321.00	352.50	ANTF Tuffaceous Andesite green	321.00	323.00	N255771	0.005	44.8	1.5	2.4	-0.005
321 - 352.5: Chlorite altered andesite tuff. Pervasive chlorite alteration of groundmass and tuff fragments. Trace epidote. Pervasive silicification with abundant dm-scale wide strongly clay altered intervals around fracture zones at 45-50 deg to CA. Decreased pyrite from above intervals predominantly as fg disseminations and rare veins. Blebs and clots of magnetite from 331.8-334.0m. Chill margin with significant increase in zeolite veins from about 345.45-352.5m.										
<<Min: 321 - 331.8: 3% pyrite / 2% zeolite / 1% epidote / 5% chlorite>>			323.00	325.00	N255772	0.007	51.2	1.4	2.4	-0.005
<<Min: 331.8 - 334: 3% pyrite / 5% magnetite / 2% zeolite / 1% epidote / 5% chlorite>>			325.00	327.00	N255773	0.011	93.3	1.8	2.9	-0.005
<<Min: 334 - 348.65: 3% pyrite / 2% zeolite / 1% epidote / 5% chlorite>>			327.00	329.00	N255774	0.008	46.5	1.7	2.8	-0.005
<<Min: 348.65 - 352.5: 3% pyrite / 5% magnetite / 8% zeolite / 1% epidote / 5% chlorite>>			329.00	331.00	N255776	0.008	38.6	1.8	2.3	-0.005
<<Alt: 321 - 331.8: moderate to strong Silica-Clay-Py / weak Propylitic>>			331.00	333.00	N255777	0.007	37.9	1.5	3.3	-0.005
<<Alt: 331.8 - 334: moderate to strong Silica-Clay-Py / weak to moderate Chlorite-Magnetite (+/- Si) / weak Propylitic>>			333.00	335.00	N255778	0.006	34.8	1.1	2.7	-0.005
<<Vein: 321 - 345.45: 0.5% Pyrite / 2% Calcium carbonate/Carbonate / 1% Quartz>>			335.00	337.00	N255779	0.004	41.3	0.9	2.2	-0.005
<<Vein: 345.45 - 352.5: 1% Pyrite / 2% Calcium carbonate/Carbonate / 2% Quartz>>			337.00	339.00	N255780	0.005	28	1	3	-0.005
<<Struc: 331.44 - 331.54: strong Gouge 55 deg. >>			339.00	341.00	N255782	0.004	47.7	1.3	4	-0.005
<<Struc: 345.44 - 345.45: strong Contact 45 deg. >>			341.00	343.00	N255783	0.004	25.4	1.5	4	-0.005
<<Struc: 352.49 - 352.5: weak to moderate Contact 35 deg. >> contact between tuff and quartz diorite			343.00	345.00	N255784	0.003	24.2	1.4	3.3	-0.005
			345.00	347.00	N255785	0.003	71.6	1.9	3.9	-0.005
			347.00	349.00	N255786	0.004	95	2.7	3.1	-0.005
			347.00	349.00	N255787	0.004	92.6	2.3	2.9	0.006
			349.00	351.00	N255788	0.006	186.3	2.6	3.9	-0.005
			351.00	353.00	N255789	0.005	372.1	2.4	4	-0.005
352.50	404.50	QD Quartz Diorite green	353.00	355.00	N255790	-0.002	210.1	1.4	2.3	-0.005
352.5 - 404.5: Quartz Diorite. Upper contact with tuff is wavy and irregular at about 35 deg to CA. No fault contact. Continued very strong zeolite veining to 362.0m with rare Mg veins. Equigranular, mafic phenocrysts no quartz. Fracture controlled SCP alteration along fractures at 35-40 deg to CA overprints PRO alteration. Weakly to locally moderately magnetic with 1-2% fine blebs of magnetite.										
<<Min: 352.5 - 362: 3% pyrite / 10% zeolite / 1% epidote / 5% chlorite>>			355.00	357.00	N255791	0.003	82.3	1.5	3.5	-0.005
<<Min: 362 - 390: 8% pyrite / 1% magnetite / 3% zeolite / 0.5% epidote / 5% chlorite>>			355.00	357.00	N255792	0.003	78.3	1.7	3.4	-0.005
<<Min: 390 - 404.5: 8% pyrite / 3% zeolite / 5% chlorite>>			357.00	359.00	N255793	0.003	85.4	2.1	2.8	-0.005
<<Vein: 352.5 - 404.5: 2% Pyrite / 3% Calcium carbonate/Carbonate / 2% Quartz>>			359.00	361.00	N255794	0.003	104.4	1.9	3.5	-0.005
<<Struc: 362.65 - 362.85: moderate to strong Brittle Fracture 25 deg. >>			361.00	363.00	N255795	0.003	91.9	1.7	2.4	-0.005
<<Struc: 383.4 - 384.26: moderate to strong Fault Zone 70 deg. / moderate Local Gouge>> Healed fault zone			363.00	365.00	N255796	0.003	95.8	2.1	2.1	-0.005
<<Struc: 388.2 - 389: strong Brittle Fracture 10 deg. >>			365.00	367.00	N255797	0.003	108.6	1.7	1.2	-0.005
<<Struc: 391.5 - 392.2: strong Brittle Fracture 20 deg. >>			367.00	369.00	N255799	0.004	95	1.6	3.5	-0.005
<<Struc: 398.1 - 398.2: moderate Brittle Fracture 15 deg. / weak to moderate Local Gouge 15 deg. >>			369.00	371.00	N255800	0.004	89.6	1.8	2	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 404.35 - 404.75: strong Brittle Fracture 10 deg. >>			371.00	373.00	N255801	0.004	98.7	1.6	1.9	-0.005
			373.00	375.00	N255802	0.003	89.3	2.2	2.6	-0.005
			375.00	377.00	N255803	0.003	90	1.6	3.4	-0.005
			377.00	379.00	N255804	0.003	77.3	2.6	4.9	-0.005
			379.00	381.00	N255806	0.002	85.2	2.1	4	-0.005
			381.00	383.00	N255807	0.002	97.6	2.4	2.9	-0.005
			383.00	385.00	N255808	-0.002	62.8	3.2	5	-0.005
			385.00	387.00	N255809	0.004	92.3	1.7	2.3	-0.005
			387.00	389.00	N255810	0.003	135.9	2.7	3	0.012
			389.00	391.00	N255812	0.003	91	1.8	2.9	0.005
			391.00	393.00	N255813	0.002	160	2.1	3.6	0.007
			393.00	395.00	N255814	0.003	91.6	2.8	3.8	0.005
			395.00	397.00	N255815	-0.002	99.7	3.8	3.6	0.014
			397.00	399.00	N255816	0.002	105.8	2.6	4.2	0.006
			397.00	399.00	N255817	0.002	100.5	2.4	3.8	0.008
			399.00	401.00	N255818	0.005	71.7	2.5	4.1	-0.005
			401.00	403.00	N255819	0.003	109	2.8	6.1	-0.005
			403.00	405.00	N255820	0.003	101.5	2.3	4.6	0.009
404.50 414.90 QD Quartz Diorite buff			405.00	407.00	N255821	0.002	99.7	7.9	6.1	0.022
404.5 - 414.9: As above. Very strong SCP alteration with weak chlorite alteration of mafics. Pervasive fine grained silicification.										
<<Min: 404.5 - 414.9: 6% pyrite / 2% anhydrite / 2% pyrophyllite / 1% chlorite>>			407.00	409.00	N255822	0.003	68.7	2.9	5.5	0.011
<<Vein: 404.5 - 414.9: 2% Pyrite / 2% Quartz / 2% Gypsum>>			409.00	411.00	N255824	0.003	111.2	4	5	-0.005
<<Struc: 412 - 412.35: moderate Brittle Fracture 15 deg. >>			411.00	413.00	N255825	0.003	108.5	3.3	5.4	-0.005
<<Struc: 414.1 - 414.2: moderate Brittle Fracture 10 deg. >>			413.00	415.00	N255826	0.003	106.1	9.7	4.5	0.094
414.90 418.95 QD Quartz Diorite green			415.00	417.00	N255827	0.003	92.3	2.1	3.3	0.008
414.9 - 418.95: As above. Marked increase in chlorite alteration of mafics and groundmass. Trace epidote.										
<<Min: 414.9 - 418.95: 6% pyrite / 3% zeolite / 0.5% epidote / 5% chlorite>>			417.00	419.00	N255828	0.004	71.9	2.9	3.1	0.005
<<Vein: 414.9 - 418.95: 2% Pyrite / 3% Calcium carbonate/Carbonate / 2% Quartz>>										
418.95 443.45 QD Quartz Diorite buff			419.00	421.00	N255829	0.003	73	17.5	4.7	0.01
418.95 - 443.45: As above. Very strong SCP alteration with increasing chlorite altn and trace epidote down interval.										
<<Min: 418.95 - 443.45: 6% pyrite / 2% zeolite / 2% anhydrite / 1% pyrophyllite>>			421.00	423.00	N255831	0.003	80.2	4.4	4.9	0.01
<<Vein: 418.95 - 449.75: 2% Pyrite / 2% Calcium carbonate/Carbonate / 2% Quartz>>			423.00	425.00	N255832	-0.002	64.7	10.2	4.4	0.009

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 421.95 - 422.3: strong Brittle Fracture 05 deg. / moderate to strong Local Gouge>>			425.00	427.00	N255833	0.002	86.1	5.5	4.7	0.014
<<Struc: 424.2 - 424.95: moderate to strong Brittle Fracture 05 deg. / moderate to strong Local Gouge>>			427.00	429.00	N255834	0.002	82.9	4.1	6	0.012
<<Struc: 427.05 - 428: moderate Brittle Fracture 20 deg. >>			429.00	431.00	N255835	0.002	85	3.6	5.6	0.013
<<Struc: 434.92 - 435.05: moderate Gouge 45 deg. >>			431.00	433.00	N255837	0.002	109	3.1	5	-0.005
<<Struc: 441.4 - 441.44: moderate Gouge 70 deg. >>			433.00	435.00	N255838	0.003	102.7	3.1	4.2	0.015
			435.00	437.00	N255839	0.002	125.9	4	4.5	0.014
			437.00	439.00	N255840	0.003	109.2	8.5	3.4	0.106
			439.00	441.00	N255841	0.002	95	4.1	3.3	0.021
			441.00	443.00	N255842	0.002	69.4	5.5	3.2	0.007
			441.00	443.00	N255843	-0.002	66.9	4.4	3.1	0.021
			443.00	445.00	N255844	0.006	56.7	2.7	2.2	0.027
443.45	449.75	QD Quartz Diorite green	445.00	447.00	N255845	0.004	82.8	3.8	1.9	0.013
443.45 - 449.75: As above. PRO altered with weak SCP overprint. Blebs and wisps of epidote. Pyrite as disseminations no veining decreases to 2%										
<<Min: 443.45 - 449.75: 2% pyrite / 1% magnetite / 2% zeolite / 2% epidote / 5% chlorite>>			447.00	449.00	N255846	0.002	65.4	1.6	0.7	0.009
			449.00	451.00	N255847	0.003	81.9	3.2	1.4	0.023
449.75	457.00	QD Quartz Diorite green	451.00	453.00	N255848	0.003	73.7	4.2	2.1	0.043
449.75 - 457: As above. 10% magnetite as cm-scale disseminated masses and mm-scale discontinuous veins.										
<<Min: 449.75 - 457: 6% pyrite / 10% magnetite / 1% zeolite / 3% epidote / 5% chlorite>>			453.00	455.00	N255850	0.007	91.3	4.3	2	0.08
<<Alt: 449.75 - 457: moderate to strong Silica-Clay-Py / weak to moderate Chlorite-Magnetite (+/- Si) / weak to moderate Propylitic>>			455.00	457.00	N255851	0.003	109.2	3	1.1	0.032
<<Vein: 449.75 - 457: 1% Pyrite / 1% Calcium carbonate/Carbonate>>										
<<Struc: 455 - 455.35: moderate to strong Brittle Fracture 15 deg. / moderate to strong Slicks 15 deg. >>										
457.00	526.50	QD Quartz Diorite green	457.00	459.00	N255852	0.004	67.3	2.1	0.9	0.014
457 - 526.5: As above. Medium to coarse grained equigranular. Weak and irregular pinking of feldspar (hematite). Weak zeolite and Mg veins with rare crosscutting banded quartz veins. Chlorite alteration of mafics with blotchy and wispy epidote increasing down interval associated with late zeolite filled fractures. Rare cm to dm-scale wide weak SCP altered bands overprinting PRO alteration. No clay alteration after 464m. Moderately magnetic with approx 5% mm blebs magnetite. Trace disseminated pyrite.										
<<Min: 457 - 464: 2% pyrite / 3% magnetite / 2% zeolite / 2% epidote>>			459.00	461.00	N255853	0.005	54.4	1.7	0.4	-0.005
<<Min: 464 - 504: 1% pyrite / 5% magnetite / 2% zeolite / 3% epidote>>			461.00	463.00	N255854	0.003	50.1	2.1	0.8	-0.005
<<Min: 504 - 526.5: 0.5% pyrite / 5% magnetite / 2% zeolite / 3% epidote>>			463.00	465.00	N255856	0.002	49.6	2.1	0.6	-0.005
<<Vein: 457 - 504: / 1% Manganese / 3% Calcium carbonate/Carbonate / 1% Quartz>>			465.00	467.00	N255857	0.002	54.6	2.2	0.2	-0.005
<<Vein: 504 - 573: / 3% Calcium carbonate/Carbonate / 1% Quartz / 3% Epidote>>			467.00	469.00	N255858	0.002	51.6	2	-0.1	-0.005

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-05

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 464.15 - 464.7: moderate Brittle Fracture 45 deg. >>			469.00	471.00	N255859	0.002	50.2	2.3	0.3	-0.005
			471.00	473.00	N255861	0.004	57.5	2.4	0.6	0.006
			473.00	475.00	N255862	0.003	47	2.1	0.2	-0.005
			475.00	477.00	N255863	-0.002	46	1.7	0.2	-0.005
			477.00	479.00	N255864	-0.002	51.2	3	0.5	-0.005
			479.00	481.00	N255865	-0.002	50.7	2	0.2	-0.005
			479.00	481.00	N255866	-0.002	63.1	2.1	0.2	-0.005
			481.00	483.00	N255867	-0.002	53.7	2.5	0.3	-0.005
			483.00	485.00	N255868	-0.002	62.4	2.2	0.4	-0.005
			485.00	487.00	N255869	0.002	48.7	2.6	0.4	-0.005
			487.00	489.00	N255870	-0.002	52.8	2.4	0.2	-0.005
			489.00	491.00	N255871	0.002	47.2	2.7	0.6	-0.005
			491.00	493.00	N255873	0.002	53.3	3.6	0.5	0.007
			493.00	495.00	N255874	-0.002	51.4	2.4	0.2	-0.005
			495.00	497.00	N255875	-0.002	48.1	1.8	0.2	-0.005
			497.00	499.00	N255876	-0.002	49.3	1.5	0.3	-0.005
			499.00	501.00	N255877	-0.002	54	1.9	0.2	0.008
			501.00	503.00	N255878	-0.002	49.2	2.4	-0.1	-0.005
			503.00	505.00	N255880	-0.002	61.1	2	0.6	0.007
			505.00	507.00	N255881	-0.002	58.1	1.6	0.2	-0.005
			507.00	509.00	N255882	-0.002	58.2	1.9	0.3	-0.005
			509.00	511.00	N255883	0.002	56	2.1	0.2	-0.005
			511.00	513.00	N255884	-0.002	58.8	1.7	0.3	-0.005
			513.00	515.00	N255885	0.002	53.9	2	0.3	-0.005
			513.00	515.00	N255886	-0.002	54.5	1.7	0.3	-0.005
			515.00	517.00	N255887	-0.002	55	2	0.5	-0.005
			517.00	519.00	N255888	-0.002	61.1	2.3	0.6	0.007
			519.00	521.00	N255889	-0.002	49.3	2.6	0.5	-0.005
			521.00	523.00	N255890	0.002	50.1	2.6	0.2	-0.005
			523.00	525.00	N255891	0.002	59.8	2.3	0.1	0.011
			525.00	527.00	N255892	0.002	58.3	2.5	0.4	0.007
			527.00	529.00	N255894	0.002	57.3	2	0.1	0.006

526.50 573.00 PQD Porphyritic Quarz Diorite green

526.5 - 573: As above. Medium grained and becomes more porphyritic with some, about 5% quartz eyes. Isolated milky white quartz vein from 556.40-556.56m is banded with cg cpy clots in central portion of the vein. Hole terminated at 573m.

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-05

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 526.5 - 573:		1% pyrite / 5% magnetite / 2% zeolite / 4% epidote>>	529.00	531.00	N255895	-0.002	61.6	1.8	0.2	-0.005
<<Struc: 556.55 - 556.56:		moderate to strong Slicks 45 deg. >> Slickensided contact of 15cm milky white quartz vein with cg cpy in central portion of vein	531.00	533.00	N255896	-0.002	55.4	1.6	0.6	0.006
			533.00	535.00	N255897	0.002	52.3	1.7	0.5	-0.005
			535.00	537.00	N255898	-0.002	53.9	2.1	0.3	0.006
			537.00	539.00	N255900	0.002	54.7	2	-0.1	-0.005
			539.00	541.00	N255901	0.002	60	2.2	-0.1	-0.005
			541.00	543.00	N255902	-0.002	54.4	2.3	0.2	0.009
			543.00	545.00	N255903	0.002	54.8	2.5	-0.1	-0.005
			545.00	547.00	N255904	0.002	54.5	2.3	0.2	0.007
			547.00	549.00	N255906	0.002	54.8	2.6	-0.1	0.009
			549.00	551.00	N255907	-0.002	60.1	2.7	0.1	0.006
			551.00	553.00	N255908	-0.002	61.4	2.1	0.1	0.01
			553.00	555.00	N255909	-0.002	56.3	2.2	0.2	0.007
			555.00	557.00	N255910	0.003	335.3	8.2	1.2	-0.005
			555.00	557.00	N255911	-0.002	298.3	4.8	1	-0.005
			557.00	559.00	N255912	-0.002	61.6	1.6	-0.1	-0.005
			559.00	561.00	N255913	0.004	65.8	2.1	-0.1	-0.005
			561.00	563.00	N255914	0.003	66	1.6	-0.1	0.009
			563.00	565.00	N255915	0.002	60.7	2.1	-0.1	0.005
			565.00	567.00	N255917	-0.002	59	2.5	0.4	-0.005
			567.00	569.00	N255918	-0.002	62.1	2	0.6	-0.005
			569.00	571.00	N255919	0.005	64	2.2	0.2	0.007
			571.00	573.00	N255920	0.002	61.2	2	0.1	-0.005

End of Hole @ 573



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-06

Prospect:		Survey Type:	GPS	Logged By:	BG
Grid:	NAD83_Z9	Survey By:	BG	Date Started:	25/11/2018
Easting:	587133	Azimuth:		Date Completed:	12/12/2018
Northing:	5609513	Dip:	-90	Drill Company:	Dorado
Elevation (m):	357	Length (m):	701	Drill Rig:	Unknown
Hole Type:	DD			Drill Started:	24/11/2018
Hole Diameter:				Drill Completed:	10/12/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input checked="" type="checkbox"/>	Switch to NQ at 473m.			
Casing Depth (m):	59				

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
141.5	-88.9	222.9	17.5	240.4	ReflexEZS		28/11/2018	54114	<input type="checkbox"/>	
422	-88.3	171.7	17.5	189.2	ReflexEZS		04/12/2018	54601	<input type="checkbox"/>	
524	-88.2	194.9	17.5	212.4	ReflexEZS		07/12/2018	53991	<input type="checkbox"/>	
584	-88.1	179.2	17.5	196.7	ReflexEZS		07/12/2018	53503	<input type="checkbox"/>	
683	-88.1	181.3	17.5	198.8	ReflexEZS		10/12/2018	54024	<input type="checkbox"/>	

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	2.80	OVER Overburden								
2.80	41.90	ANTF Tuffaceous Andesite buff	8.00	10.00	N255921	0.004	78.4	10.5	2.3	0.011
2.8 - 41.9: Ash flow tuff. Feldspar phyrlic groundmass with 0.3-2cm subrounded to subangular fragments. Extensive oxidation with intervals of more weakly, fracture controlled, oxidation. Weakly oxidized intervals are strongly SCP altered with pervasive fg silicification. Pyrite in non oxidized intervals is disseminated and scattered 1-5mm veins. Locally strong clay alteration along fractures.										
<<Min: 2.8 - 4.25:	>> 5% pyrite / 3% goethite>>		10.00	12.50	N255922	0.006	77.9	11.1	3.4	0.007
<<Min: 4.25 - 9.5:	>> 1% pyrite / 5% goethite>>		12.50	15.50	N255923	0.005	98.5	5.4	3.9	0.065
<<Min: 9.5 - 10.5:	>> 10% pyrite / 2% goethite>>		15.50	18.00	N255924	0.003	92.1	6.8	5.7	0.033
<<Min: 10.5 - 15.95:	>> 1% pyrite / 8% goethite>>		18.00	20.00	N255925	0.008	103.3	7.9	3.6	0.068
<<Min: 15.95 - 22.1:	>> 8% pyrite / 2% goethite>>		20.00	22.00	N255926	0.004	64.1	4.4	3.7	0.268
<<Min: 22.1 - 24.05:	>> 2% pyrite / 5% goethite>>		20.00	22.00	N255927	0.006	60.5	4.1	3.5	0.182
<<Min: 24.05 - 28.35:	>> 8% pyrite / 2% goethite>>		22.00	24.00	N255928	0.006	116.6	5.2	2.9	0.031

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-06

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 28.35 - 33.3: 0.5% pyrite / 15% goethite>>			24.00	26.00	N255929	0.004	271.4	4.2	7.9	0.025
<<Min: 33.3 - 44.6: 8% pyrite / 2% goethite>>			26.00	28.00	N255930	0.005	138.3	7.6	4.4	0.055
<<Alt: 2.8 - 9.5: moderate Silica-Clay-Py / moderate Leached>>			28.00	30.00	N255931	0.005	135.9	6.1	2.4	0.031
<<Alt: 9.5 - 10.5: strong Silica-Clay-Py / weak Leached>>			30.00	32.00	N255932	0.01	152.2	5.7	0.3	0.009
<<Alt: 10.5 - 15.95: weak to moderate Silica-Clay-Py / strong Leached>>			32.00	34.00	N255933	0.004	193.9	6.2	2.5	0.091
<<Alt: 15.95 - 22.1: strong Silica-Clay-Py / weak Leached>>			34.00	36.00	N255934	0.005	163.4	8.1	8	0.172
<<Alt: 22.1 - 24.05: moderate Silica-Clay-Py / moderate Leached>>			36.00	38.00	N255936	0.005	190.5	7.9	4.7	0.07
<<Alt: 24.05 - 28.35: strong Silica-Clay-Py / weak Leached>>			38.00	40.00	N255937	0.006	143.7	10.4	6.1	0.544
<<Alt: 28.35 - 33.3: weak Silica-Clay-Py / intense Leached>> leached cavities			40.00	42.00	N255938	0.005	185.6	6.3	7.7	0.069
<<Alt: 33.3 - 44.6: strong Silica-Clay-Py / weak Leached>>										
<<Vein: 9.5 - 10.5: 2% Pyrite / 1% Quartz>>										
<<Vein: 10.5 - 15.95: / 3% Goethite>>										
<<Vein: 15.95 - 22.1: 2% Pyrite / 1% Quartz>>										
<<Vein: 24.05 - 28.35: 2% Pyrite>>										
<<Vein: 28.35 - 33.3: / 10% Goethite>>										
<<Vein: 33.3 - 44.6: 3% Pyrite>>										
<<Struc: 18.75 - 19.6: strong Brittle Fracture 05 deg. >>										
<<Struc: 21.86 - 21.9: strong Brittle Fracture 40 deg. >>										
<<Struc: 34.85 - 35.15: moderate Local Gouge>>										
<<Struc: 40.78 - 41.2: moderate to strong Brittle Fracture 00 deg. >>										
41.90 83.50 HTBX Hydrothermal breccia/alterite buff			42.00	44.00	N255939	0.012	130.7	14.8	7.9	0.222
41.9 - 83.5: Heterolithic breccia of probable hydrothermal origin. Extensive oxidation through much of the interval as above. 0.5-4cm subrounded to subangular heterolithic fragments including abundant dark grey, silicified-cherty fragments, possibly originating from silica cap material. Abundant pyrite in non and weakly oxidized intervals as swirling masses and veins in groundmass and as partial replacement and discontinuous stringers in breccia fragments.										
<<Min: 44.6 - 47.5: 2% pyrite / 5% goethite>>			44.00	46.00	N255940	0.01	113.1	31.6	5.7	0.198
<<Min: 47.5 - 48.4: 8% pyrite / 2% goethite>>			46.00	48.00	N255942	0.021	54.7	33	1.8	0.011
<<Min: 48.4 - 56.8: 0.5% pyrite / 15% goethite>>			48.00	50.00	N255943	0.015	57.7	21.9	4.7	0.106
<<Min: 56.8 - 58.55: 2% pyrite / 5% goethite>>			50.00	52.00	N255944	0.013	41.1	78.3	-0.1	0.012
<<Min: 58.55 - 64.6: 12% pyrite / 2% goethite>>			52.00	54.00	N255945	0.007	25.3	9.8	-0.1	0.006
<<Min: 64.6 - 68.3: 4% pyrite / 4% goethite>>			54.00	56.00	N255946	0.015	38.4	7.2	-0.1	-0.005
<<Min: 68.3 - 91.7: 4% pyrite / 1% goethite>>			56.00	58.00	N255947	0.018	68.9	5.9	1.4	0.017
<<Alt: 44.6 - 47.5: weak to moderate Silica-Clay-Py / moderate to strong Leached>>			58.00	60.00	N255949	0.023	92.1	8.6	6.7	0.032
<<Alt: 47.5 - 48.4: strong Silica-Clay-Py / weak Leached>>			60.00	62.00	N255950	0.007	125.9	7.2	10	0.038

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 48.4 - 56.8: weak Silica-Clay-Py / intense Leached>>		pitted and vuggy oxidation	62.00	64.00	N255951	0.006	128.2	12.5	6.8	0.031
<<Alt: 56.8 - 58.55: moderate Silica-Clay-Py / moderate Leached>>			64.00	66.00	N255952	0.011	132.1	20.6	3.4	0.024
<<Alt: 58.55 - 64.6: strong Silica-Clay-Py / weak Leached>>			66.00	68.00	N255953	0.009	142.4	14.4	3.9	0.029
<<Alt: 64.6 - 68.3: moderate Silica-Clay-Py / moderate Leached>>			66.00	68.00	N255954	0.009	156.8	22.3	3.6	0.028
<<Alt: 68.3 - 81.8: strong Silica-Clay-Py / weak Leached>>			68.00	70.00	N255955	0.011	199.2	31.9	4.5	0.125
<<Alt: 81.8 - 91.7: strong Silica-Clay-Py / trace Leached>>			70.00	72.00	N255956	0.007	83.4	14.3	5.4	0.051
<<Vein: 44.6 - 48.4: 1% Pyrite / 2% Goethite>>			72.00	74.00	N255957	0.003	80.3	8.6	5.4	0.027
<<Vein: 48.4 - 56.8: / 10% Goethite>>			74.00	76.00	N255958	0.005	33.9	20.8	4.8	0.017
<<Vein: 56.8 - 68.3: 2% Pyrite / 2% Goethite>>			76.00	78.00	N255959	0.004	65.1	9.5	5	0.016
<<Vein: 68.3 - 91.7: 1% Pyrite / 1% Goethite>>			78.00	80.00	N255961	0.004	103.3	10	3	0.017
<<Struc: 41.9 - 41.91: moderate to strong Contact 45 deg. >>		Contact between tuff and hydrothermal breccia	80.00	82.00	N255962	0.003	77.5	9.2	4.1	0.02
<<Struc: 67.8 - 68.15: moderate to strong Brittle Fracture 0 deg. / moderate Local Gouge 0 deg. >>			82.00	84.00	N255963	0.003	90.6	4.8	5.2	0.013
<<Struc: 71.76 - 72.02: moderate Gouge 50 deg. >>										
<<Struc: 79.8 - 79.85: strong Gouge 70 deg. >>										
<<Struc: 82.4 - 82.42: moderate Gouge 40 deg. >>										
83.50 91.70 HTBX Hydrothermal breccia/alterite buff			84.00	86.00	N255964	0.003	103.5	5.1	5.9	0.019
83.5 - 91.7: As above. Major fault zone. Clay gouge supporting dark grey siliceous fragments.										
<<Struc: 83.5 - 91.7: strong Fault Zone 60 deg. >>		coherent clay gouge with grey siliceous fragments	86.00	88.00	N255965	0.004	94.3	2.3	6.6	0.036
			88.00	90.00	N255967	0.006	72.4	2.5	3.9	0.024
			90.00	92.00	N255968	0.007	63.7	38.2	5.4	0.405
			92.00	94.00	N255969	0.007	100.5	36.8	5.7	0.436
91.70 93.55 HTBX Hydrothermal breccia/alterite buff										
91.7 - 93.55: Heterolithic breccia. As per 41.9-91.7m.										
<<Min: 91.7 - 93.55: 8% pyrite / 6% pyrophyllite>>										
<<Alt: 91.7 - 93.55: strong Silica-Clay-Py>>										
<<Vein: 91.7 - 106.15: 2% Pyrite>>										
<<Struc: 91.7 - 91.71: weak to moderate Contact 60-70 deg. >>										
<<Struc: 93.05 - 93.55: moderate to strong Fault Zone 60 deg. >>										
93.55 104.00 ANTF Tuffaceous Andesite buff			94.00	96.00	N255970	0.004	99.6	16	5.8	0.139
93.55 - 104: Ash Flow Tuff. As above description. Strong clay alteration.										
<<Min: 93.55 - 106.15: 6% pyrite>>			96.00	98.00	N255971	0.006	89.7	7.5	7.4	0.051
<<Alt: 93.55 - 106.15: intense Silica-Clay-Py>>			98.00	100.00	N255972	0.004	91.3	2.2	6.9	0.02
<<Struc: 95.31 - 95.9: moderate to strong Local Gouge 45 deg. >>			100.00	102.00	N255974	0.01	78.1	2.2	5	0.021

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-06

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 97.15 - 97.62: strong Brittle Fracture 05 deg. >>			102.00	104.00	N255975	0.005	107.5	6.2	5.6	0.056
<<Struc: 100.53 - 100.56: strong Gouge 60 deg. >>										
<<Struc: 102.35 - 104: moderate to strong Fault Zone 45 deg. / moderate to strong Local Gouge>>										
104.00	140.60	HTBX Hydrothermal breccia/alterite buff	104.00	106.00	N255976	0.008	81.1	5.5	9.7	0.06
104 - 140.6: Heterolithic breccia of probable hydrothermal origin. As above description. Major fault zone from 106.15-128.3m with mostly coherent clay gouge supporting grey siliceous fragments with some crushed and broken intervals.										
<<Min: 106.15 - 128.3: 2% pyrite / 1% goethite>>			106.00	108.00	N255977	0.006	171.9	4.4	2.4	0.046
<<Min: 128.3 - 148.15: 15% pyrite / 2% zeolite / 6% pyrophyllite>>			108.00	110.00	N255978	0.005	194.2	3.9	1.4	0.044
<<Alt: 106.15 - 128.3: moderate to strong Silica-Clay-Py / trace Leached>>			110.00	112.00	N255980	0.011	471.9	8.4	2.8	0.149
<<Alt: 128.3 - 148.15: strong Silica-Clay-Py>>			112.00	114.00	N255981	0.012	194.6	7	5.1	0.123
<<Vein: 128.3 - 148.15: 3% Pyrite>>			114.00	116.00	N255982	0.012	205.8	37.8	3.7	0.738
<<Struc: 106.15 - 128.3: strong Fault Zone 60-70 deg. >> Major fault zone. Mostly coherent clay gouge supporting siliceous fragments with some completely crushed intervals with predominantly siliceous fragments remaining.			116.00	118.00	N255983	0.01	199	23.8	6	0.151
<<Struc: 138.48 - 138.5: moderate to strong Slicks>>			118.00	120.00	N255984	0.007	136.1	30.5	5.2	0.048
			120.00	122.00	N255985	0.005	138.5	71.5	5.2	0.143
			122.00	124.00	N255987	0.004	120.4	21.2	4	0.114
			124.00	126.00	N255988	0.009	77.5	33.3	4.3	0.158
			126.00	128.00	N255989	0.008	82.7	44.2	5.4	0.025
			128.00	130.00	N255990	0.006	69.9	12.8	4.3	0.016
			130.00	132.00	N255991	0.003	59.7	7.8	5.5	0.018
			132.00	134.00	N255992	0.006	66.7	9.6	6.9	0.014
			132.00	134.00	N255993	0.004	51.1	7.9	6.3	0.016
			134.00	136.00	N255994	0.008	138.8	20.1	8.1	0.027
			136.00	138.00	N255995	0.008	152	17.8	9.5	0.037
			138.00	140.00	N255996	0.018	112	94.3	10	0.141
			140.00	142.00	N255997	0.009	130.7	8.2	6.2	0.015
140.60	144.10	ANTF Tuffaceous Andesite buff	142.00	144.00	N255998	0.011	79.1	7	7.7	0.02
140.6 - 144.1: Ash flow tuff. As above description. Patchy orange-brown pyrophyllite and several 2-5mm grey-white quartz veins.										
<<Struc: 140.6 - 140.61: weak to moderate Contact 70 deg. >>			144.00	146.00	N255999	0.006	103.1	9.5	4.4	0.021
144.10	146.30	HTBX Hydrothermal breccia/alterite buff	146.00	148.00	N256000	0.007	156	12.3	7.2	0.031
144.1 - 146.3: Hydrothermal breccia as above. Intense clay alteration of matrix with silica rich fragments.										

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
146.30	165.50	ANTF Tuffaceous Andesite buff	148.00	150.00	N256002	0.004	140.4	8.1	7.6	0.047
146.3 - 165.5: Ash flow tuff. As above. Several dm to metre-scale clay gouge fault zones, including a major clay gouge fault zone from 157.5-165.5m.										
<<Min: 148.15 - 157.5: 7% pyrite / 2% zeolite / 2% pyrophyllite>>			150.00	152.00	N256003	0.003	140	7.8	9.5	0.072
<<Min: 157.5 - 165.5: 3% pyrite>>			152.00	154.00	N256004	0.002	111.7	3.1	6.1	0.016
<<Vein: 148.15 - 157.5: 2% Pyrite / 2% Calcium carbonate/Carbonate>>			154.00	156.00	N256005	-0.002	100.1	5	6.7	0.185
<<Struc: 148.15 - 150.44: strong Fault Zone>> clay gouge fault zone			156.00	158.00	N256006	0.004	91.5	7.2	7.1	0.142
<<Struc: 153.2 - 154.85: strong Fault Zone>>			158.00	161.00	N256008	0.003	84.5	3.7	6.9	0.076
<<Struc: 155.3 - 155.42: strong Gouge 70 deg. >>			161.00	164.00	N256009	0.004	117.1	5	7.2	0.035
<<Struc: 156.32 - 156.8: moderate to strong Gouge 65 deg. >>			164.00	166.00	N256010	0.008	126.1	24.6	5.9	0.357
<<Struc: 157.5 - 165.5: strong Fault Zone 80 deg. >> Major fault zone. Predominantly coherent clay gouge										
165.50	171.70	ANFX Feldspar-phyric Andesite buff	166.00	168.00	N256011	0.006	121	10.3	6.2	0.044
165.5 - 171.7: Crystal ash tuff, fine grained feldspar phyric. Locally brown hue due to pyrophyllite. Wispy disseminations and vein pyrite.										
<<Min: 165.5 - 184: 6% pyrite / 1.5% zeolite / 2% pyrophyllite>>			168.00	170.00	N256012	0.003	172.5	7.3	6.7	0.028
<<Vein: 165.5 - 184: 1% Pyrite / 2% Calcium carbonate/Carbonate>>			168.00	170.00	N256013	-0.002	159.9	5.9	6.8	0.016
			170.00	172.00	N256014	0.003	138	2.3	5.1	0.01
171.70	221.70	FP Feldspar Porphyry buff	172.00	174.00	N256015	0.004	111.5	1.4	4.4	-0.005
171.7 - 221.7: Feldspar porphyry. Medium grained porphyritic intrusion of likely quartz diorite origin. Rare fg quartz eyes. Alternating bands of fg silicification greater than clay alteration and clay alteration greater than silicification. Pyrite mostly as disseminated grains replacing mafics. Locally very weakly magnetic. Chilled upper and lower contacts.										
<<Min: 184 - 192: 10% pyrite / 1% zeolite>>			174.00	176.00	N256016	0.003	73.8	2.1	4.1	-0.005
<<Min: 192 - 200: 6% pyrite / 3% zeolite>>			176.00	178.00	N256017	-0.002	61.9	2.4	2.2	0.008
<<Min: 200 - 219.05: 5% pyrite / 0.5% zeolite>>			178.00	180.00	N256018	-0.002	70.6	1.6	2.1	-0.005
<<Min: 219.05 - 221.7: 2% pyrite / 10% magnetite / 2% zeolite / 10% chlorite>>			180.00	182.00	N256020	0.004	69.9	5.1	2.7	0.033
<<Vein: 184 - 192: / 2% Calcium carbonate/Carbonate>>			182.00	184.00	N256021	-0.002	61	1.4	3.3	-0.005
<<Vein: 192 - 200: / 3% Calcium carbonate/Carbonate>>			184.00	186.00	N256022	-0.002	66.3	5.3	5	0.008
<<Vein: 200 - 216: / 0.5% Calcium carbonate/Carbonate>>			186.00	188.00	N256023	-0.002	76.8	5.5	5.2	0.013
<<Vein: 216 - 226: 1% Pyrite / 1.5% Calcium carbonate/Carbonate>>			188.00	190.00	N256024	0.003	80.3	2.9	6.3	0.008
<<Struc: 171.7 - 171.71: moderate Contact 80 deg. >> Contact between tuff and FP			190.00	192.00	N256026	-0.002	89.3	3.3	6.6	-0.005
<<Struc: 177.7 - 178.42: moderate Brittle Fracture / moderate Local Gouge>>			192.00	194.00	N256027	-0.002	70.1	2	6.1	0.008
<<Struc: 184.1 - 184.75: moderate to strong Brittle Fracture / moderate to strong Local Gouge>>			194.00	196.00	N256028	-0.002	66.3	2	6	-0.005
<<Struc: 191.72 - 191.9: moderate to strong Local Gouge / moderate Slicks>>			196.00	198.00	N256029	0.002	89.9	2.7	5.2	0.013

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<<Struc: 192.5 - 192.88: strong Gouge 60 deg. >>			198.00	200.00	N256030	0.003	58.5	3.1	5	-0.005
<<Struc: 201 - 202.25: moderate Fault Zone 60 deg. / moderate Local Gouge>> Coherent healed fault zone with local cm-scale wide clay gouge			200.00	202.00	N256031	-0.002	65.2	2.8	4.8	-0.005
<<Struc: 216.15 - 217.7: moderate Brittle Fracture 60 deg. / moderate to strong Slicks 60 deg. >>			200.00	202.00	N256032	-0.002	76.3	2.7	4.9	-0.005
<<Struc: 218.62 - 218.76: strong Gouge 60 deg. >>			202.00	204.00	N256033	-0.002	64.6	2.7	4	-0.005
			204.00	206.00	N256034	-0.002	74	3	4.4	-0.005
			206.00	208.00	N256035	0.002	68.9	2.5	3.9	-0.005
			208.00	210.00	N256036	0.003	66	2.7	4.4	-0.005
			210.00	212.00	N256037	0.002	63.1	3.1	4.7	-0.005
			212.00	214.00	N256039	0.004	65	2.7	3.9	-0.005
			214.00	216.00	N256040	0.003	66.5	2.7	4.3	-0.005
			216.00	218.00	N256041	0.002	72.3	3.6	3.6	-0.005
			218.00	220.00	N256043	-0.002	87.5	1.9	1.6	-0.005
			220.00	222.00	N256044	0.006	122.2	1.5	1.6	0.01
221.70 237.45 ANFX Feldspar-phyric Andesite buff			222.00	224.00	N256045	0.009	118.9	1.1	3.7	-0.005
221.7 - 237.45: Crystal ash tuff. Very strong clay alteration, with local blotchy pale green clay. Textures are largely destroyed; vaguely feldspar phyric and locally looks like it could be intrusive. Pyrite as disseminations, wispy patches and discontinuous stringers. Lower fault contact at 60 deg to CA.										
<<Min: 221.7 - 226: 6% pyrite / 1% zeolite>>			222.00	224.00	N256046	0.007	111	1.2	3.5	-0.005
<<Min: 226 - 237.5: 12% pyrite / 3% zeolite>>			224.00	226.00	N256047	0.006	116.7	2.1	4.8	0.014
<<Vein: 226 - 238: 2% Pyrite / 3% Calcium carbonate/Carbonate>>			226.00	228.00	N256048	0.004	71.7	1.6	5.7	0.009
<<Struc: 226.95 - 227.22: moderate Local Gouge 50 deg. >>			228.00	230.00	N256049	0.007	69.1	4	6.3	0.021
<<Struc: 233.15 - 233.6: moderate to strong Gouge 50 deg. >>			230.00	232.00	N256050	0.004	99.8	5.6	8.6	0.032
<<Struc: 236.48 - 237.45: moderate to strong Fault Zone 60 deg. >> healed mostly coherent clay fault zone			232.00	234.00	N256051	0.004	99.3	6.5	6.5	0.026
			234.00	236.00	N256052	0.006	98.3	5.6	8.2	0.026
			236.00	238.00	N256053	0.002	66.6	2.9	7.1	0.019
237.45 256.55 ANTF Tuffaceous Andesite buff			238.00	240.00	N256054	-0.002	56.4	2.4	6.6	0.015
237.45 - 256.55: Tuff breccia. Fine grained matrix with subrounded to subangular clasts to 6cm. Pervasive fg silicification greater than clay alteration. Pyrite as fg wispy disseminations and veins and as partial replacement of some fragments. Trace to 1% discontinuous fluorite veins over about 1m at the lower contact with QFP dyke.										
<<Min: 237.5 - 256.55: 10% pyrite / 0.5% zeolite>>			240.00	242.00	N256056	0.002	53.9	2.1	6.5	0.012
<<Vein: 238 - 248: 2% Pyrite / 0.5% Calcium carbonate/Carbonate>>			242.00	244.00	N256057	-0.002	58.9	2.3	6.6	0.096
<<Vein: 248 - 254: 2% Pyrite / 0.5% Calcium carbonate/Carbonate / 1% Quartz>>			244.00	246.00	N256058	-0.002	59.6	2.8	6.9	0.096
<<Vein: 254 - 256.55: 2% Pyrite / 0.5% Calcium carbonate/Carbonate>>			246.00	248.00	N256059	-0.002	50.2	2.3	6.1	0.06

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<<Struc: 237.45 - 237.46: moderate to strong Contact 60 deg. >> Fault contact			248.00	250.00	N256060	-0.002	83.9	1.9	6.6	0.007
<<Struc: 246 - 247.75: moderate to strong Brittle Fracture 35 deg. / moderate to strong Local Gouge 35 deg. >>			250.00	252.00	N256062	0.003	48.2	1.5	5.5	-0.005
			252.00	254.00	N256063	0.002	43.5	3.2	4.1	0.007
			254.00	256.00	N256064	0.004	56.5	2.9	5.1	-0.005
			256.00	258.00	N256065	-0.002	92.2	2.8	5.8	-0.005
256.55 271.60 QFPP Qz Feldspar Porphyry grey			258.00	260.00	N256066	-0.002	110.5	4.2	6.2	-0.005
256.55 - 271.6: Quartz Feldspar Porphyry. Crowded feldspar phyrlic intrusive with 25-30% 2-7mm tabular feldspar phenocrysts and approx 5% 3-8mm light grey to light blue quartz eyes. Strong pervasive fg silicification with locally extensive pitting and vugs due to leaching of clay and carbonate. Pyrite as disseminations replacing mafics and rare veinlets. Diffuse lower contact.										
<<Min: 256.55 - 292: 5% pyrite / 0.5% zeolite>>			258.00	260.00	N256067	-0.002	93.3	3.5	6	-0.005
<<Vein: 256.55 - 292: 1% Pyrite / 0.5% Calcium carbonate/Carbonate>>			260.00	262.00	N256068	-0.002	111.3	4.1	5.9	-0.005
<<Struc: 256.55 - 256.56: moderate to strong Contact 70 deg. >> contact with QFP			262.00	264.00	N256069	-0.002	101.4	3.9	6	0.009
			264.00	266.00	N256070	-0.002	102.9	4.1	6.1	-0.005
			266.00	268.00	N256071	-0.002	93.2	4	6.2	0.014
			268.00	270.00	N256072	-0.002	68.5	4	4.1	-0.005
			270.00	272.00	N256074	-0.002	95.3	4.3	6	-0.005
271.60 298.00 FP Feldspar Porphyry buff			272.00	274.00	N256075	-0.002	99.4	3.9	5.9	-0.005
271.6 - 298: Feldspar porphyry. Medium grained porphyritic intrusion. Extensively clay altered with feldspars largely replaced by clay. Rare pale grey quartz eyes. Disseminated pyrite replacing mafics and rare wispy stringers. Diffuse chilled lower contact.										
<<Min: 292 - 300: 3% pyrite / 4% zeolite>>			274.00	276.00	N256076	-0.002	96.3	3.8	5.7	-0.005
<<Vein: 292 - 300: 1% Pyrite / 4% Calcium carbonate/Carbonate>>			276.00	278.00	N256077	-0.002	74	4.1	4.5	-0.005
<<Struc: 271.82 - 272: moderate Local Gouge>>			278.00	280.00	N256078	-0.002	97.4	4.1	5.9	-0.005
<<Struc: 290.76 - 291.23: moderate Fault Zone / moderate Gouge>> Healed fault zone; clay gouge			280.00	282.00	N256080	-0.002	94.7	3.8	5.5	-0.005
<<Struc: 296.16 - 297.4: strong Brittle Fracture 30-50 deg. >>			282.00	284.00	N256081	-0.002	85	3.5	5.1	-0.005
			284.00	286.00	N256082	-0.002	89.2	3.7	5.3	-0.005
			286.00	288.00	N256083	-0.002	83.5	3.8	5.4	-0.005
			288.00	290.00	N256084	0.002	84.2	3.2	5.4	-0.005
			288.00	290.00	N256085	0.002	92.1	3.2	6	-0.005
			290.00	292.00	N256086	-0.002	68.2	2.9	5.6	0.006
			292.00	294.00	N256087	0.003	75.9	2.1	3.7	-0.005
			294.00	296.00	N256088	0.003	78.8	2.8	2.9	-0.005
			296.00	298.00	N256089	-0.002	71	4.1	4.4	0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
298.00	304.46	ANFX Feldspar-phyric Andesite buff 298 - 304.46: Crystal ash tuff. As per 221.7-237.45m. Lower fault contact at 50 deg to CA.	298.00	300.00	N256090	-0.002	46.4	1.9	5.5	0.015
		<<Min: 300 - 308.59: 2% pyrite / 0.5% zeolite>>	300.00	302.00	N256092	-0.002	25.6	1.5	5	0.007
		<<Vein: 300 - 308: 1% Pyrite / 0.5% Calcium carbonate/Carbonate>>	302.00	304.00	N256093	-0.002	44.5	1.2	5.5	-0.005
		<<Struc: 301.12 - 301.46: strong Brittle Fracture 35 deg. / moderate to strong Local Gouge 35 deg. >>	304.00	306.00	N256094	0.003	40.1	2.1	5.8	0.014
		<<Struc: 302.3 - 302.33: strong Gouge 70 deg. >>								
		<<Struc: 303.76 - 304.46: moderate to strong Brittle Fracture 50 deg. / moderate to strong Local Gouge 50 deg. >>								
304.46	308.12	FP Feldspar Porphyry buff 304.46 - 308.12: Feldspar Porphyry. As per 271.6-298.0m. Diffuse lower contact about 50 deg to CA.	306.00	308.00	N256095	-0.002	33.5	0.6	5.2	0.008
		<<Vein: 308 - 312: 2% Pyrite / 1% Calcium carbonate/Carbonate / 3% Gypsum>>	308.00	310.00	N256096	0.002	63.4	2.5	9.3	0.016
		<<Struc: 304.46 - 304.47: moderate to strong Contact 50 deg. >> Fault contact with FP								
		<<Struc: 305.38 - 305.69: moderate Fault Zone 60 deg. >> healed fault zone								
		<<Struc: 306.28 - 306.74: moderate Breccia 45 deg. >> fault breccia								
308.12	320.00	ANTF Tuffaceous Andesite buff 308.12 - 320: Tuff Breccia. As per 237.45-256.55m. Breccia could be of tectonic origin as this interval is fractured and broken with numerous clay gouge (fault) zones. First appearance of incipient anhydrite veins. Faulted lower contact at 75 deg to CA.	310.00	312.00	N256098	-0.002	97.1	2.3	9.7	0.03
		<<Min: 308.59 - 320: 4% pyrite / 3% anhydrite>>	312.00	314.00	N256099	-0.002	97.4	1.5	7	0.014
		<<Alt: 312 - 320: strong Silica-Clay-Py>>	314.00	316.00	N256100	-0.002	86.9	1.1	5.6	0.008
		<<Vein: 312 - 320: 1% Pyrite / 3% Gypsum>>	316.00	318.00	N256101	-0.002	46.2	2.2	6.4	0.009
		<<Struc: 308.12 - 308.58: moderate to strong Fault Zone 65 deg. >> healed fault zone	318.00	320.00	N256102	-0.002	59.7	1.5	7.4	-0.005
		<<Struc: 315.4 - 317.65: moderate to strong Brittle Fracture 60 deg. / moderate to strong Local Gouge 60 deg. >>								
		<<Struc: 319.2 - 320.08: moderate to strong Breccia 60 deg. / moderate Local Gouge>> fault breccia with clay gouge								
320.00	328.80	ANTF Tuffaceous Andesite buff 320 - 328.8: Ash flow tuff. Extensively clay altered with regular cm to dm-scale wide pale grey fg silica-rich bands, locally with pyrophyllite.	320.00	322.00	N256104	-0.002	65	1.4	7.3	-0.005
		<<Min: 320 - 334.15: 10% pyrite / 1% zeolite / 2.5% anhydrite / 3% pyrophyllite>>	322.00	324.00	N256105	-0.002	28.3	1.2	5.7	-0.005
		<<Vein: 320 - 334.15: 2% Pyrite / 1% Calcium carbonate/Carbonate / 2% Gypsum>>	324.00	326.00	N256106	-0.002	62	1.2	6	-0.005
		<<Struc: 321.68 - 321.93: moderate Gouge 35 deg. >>	326.00	328.00	N256107	-0.002	45.5	0.8	4.9	-0.005
			328.00	330.00	N256108	-0.002	48.6	1.1	5.7	-0.005
			328.00	330.00	N256109	-0.002	50.1	1.3	6.2	-0.005

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328.80	334.15	ANTF Tuffaceous Andesite buff 328.8 - 334.15: Lapilli Tuff. Alternating bands of clay-rich and silica-rich bands. Up to 3cm subrounded to subangular fragments. <<Struc: 333.85 - 334.02: strong Brittle Fracture 40 deg. >>	330.00	332.00	N256110	-0.002	25.5	1.3	4.8	-0.005
			332.00	334.00	N256111	-0.002	33.6	0.8	5.5	-0.005
			334.00	336.00	N256112	-0.002	32.4	1.3	5.4	-0.005
334.15	339.90	ANTF Tuffaceous Andesite buff 334.15 - 339.9: Ash Flow Tuff. As per 328.8-334.15m. Fluorite veins over 10cm interval at lower contact. Lower contact at 50 deg to CA. <<Min: 334.15 - 342: 8% pyrite / 1% zeolite / 1% anhydrite>> <<Vein: 334.15 - 342.25: 2% Pyrite / 1% Calcium carbonate/Carbonate / 1% Gypsum>> <<Struc: 335.98 - 336.07: moderate Gouge 50 deg. >> <<Struc: 337.95 - 338.02: strong Gouge 55 deg. >> <<Struc: 339.55 - 339.69: moderate Gouge 50 deg. >>	336.00	338.00	N256113	-0.002	35.2	1.7	7.1	-0.005
			338.00	340.00	N256114	-0.002	37.3	0.8	6.3	-0.005
339.90	342.25	ANTF Tuffaceous Andesite grey 339.9 - 342.25: Flow Breccia. Pervasive fg silicification. Pyrite as wispy disseminations and 1-4mm wide discontinuous stringers. <<Min: 342 - 362: 2% pyrite / 1% zeolite / 1% anhydrite>> <<Struc: 339.9 - 339.91: moderate to strong Contact 50 deg. >>	340.00	342.00	N256116	-0.002	47.3	1.4	6.6	-0.005
			342.00	344.00	N256117	-0.002	25	0.4	5.6	-0.005
342.25	398.35	ANTF Tuffaceous Andesite buff 342.25 - 398.35: Ash Flow Tuff. Clay alteration is greater than silicification. Significantly less pyrite than above intervals with 2-3% vfg disseminated. Intervals of weak spotty epidote replacing clay altered feldspars at 369.0-370.5m and 389.2-393.3m. <<Min: 362 - 369: 2% pyrite / 4% zeolite / 3% anhydrite / 1% pyrophyllite>> <<Min: 369 - 371.5: 2% pyrite / 5% zeolite / 2% anhydrite>> <<Min: 371.5 - 389.2: 2% pyrite / 4% zeolite / 2% anhydrite / 1% pyrophyllite>> <<Min: 389.2 - 393.3: 2% pyrite / 3% zeolite / 1% anhydrite>> <<Min: 393.3 - 406: 1.5% pyrite / 3% zeolite / 3% anhydrite / 1% pyrophyllite>> <<Vein: 342.25 - 362: 0.5% Pyrite / 1% Calcium carbonate/Carbonate / 1% Gypsum>> <<Vein: 362 - 382: 0.5% Pyrite / 4% Calcium carbonate/Carbonate / 3% Gypsum>> <<Vein: 382 - 406: / 3% Calcium carbonate/Carbonate / 0.5% Quartz / 3% Gypsum>> <<Struc: 345.02 - 345.05: strong Gouge 72 deg. >> <<Struc: 347.9 - 347.93: moderate to strong Gouge 45 deg. >> <<Struc: 363.38 - 363.47: moderate Local Gouge 65 deg. >>	344.00	346.00	N256118	-0.002	66.4	0.2	6.2	-0.005
			346.00	348.00	N256119	0.002	40	0.5	6.5	-0.005
			348.00	350.00	N256120	0.002	21.5	0.9	5.9	-0.005
			350.00	352.00	N256122	0.003	19.4	0.6	5.9	-0.005
			352.00	354.00	N256123	0.003	20.6	0.7	5.8	-0.005
			354.00	356.00	N256124	0.002	18.4	0.6	5.2	-0.005
			356.00	358.00	N256125	0.003	18.1	0.9	5	-0.005
			358.00	360.00	N256126	0.003	21.3	0.6	5	-0.005
			360.00	362.00	N256128	-0.002	21.7	1	7.3	-0.005
			362.00	364.00	N256129	0.002	23	0.2	5.5	-0.005
			364.00	366.00	N256130	-0.002	24.7	0.2	7.3	-0.005
			366.00	368.00	N256131	-0.002	28.2	0.3	7.4	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 371.66 - 372.1: moderate Local Gouge 75 deg. >>			368.00	370.00	N256132	0.002	48.4	0.6	6.1	-0.005
<<Struc: 374 - 374.07: moderate to strong Gouge 65 deg. >>			370.00	372.00	N256134	-0.002	62.1	1.1	6.5	-0.005
<<Struc: 382.88 - 383: moderate Local Gouge 75 deg. >>			372.00	374.00	N256135	0.003	46.5	1.9	8.6	-0.005
<<Struc: 390 - 390.09: weak to moderate Gouge 70 deg. >>			374.00	376.00	N256136	-0.002	20	0.8	6.7	-0.005
<<Struc: 390.43 - 390.58: moderate to strong Gouge 65 deg. >>			376.00	378.00	N256137	-0.002	29.2	0.5	5.9	-0.005
			378.00	380.00	N256138	-0.002	35.1	0.7	8	-0.005
			378.00	380.00	N256139	-0.002	33.5	0.7	8.3	-0.005
			380.00	382.00	N256140	-0.002	43.1	0.8	7.7	-0.005
			382.00	384.00	N256141	-0.002	36.2	1.4	8.6	-0.005
			384.00	386.00	N256142	-0.002	25	2.4	7.9	-0.005
			386.00	388.00	N256143	-0.002	39.8	2	8.3	-0.005
			388.00	390.00	N256145	0.003	40.7	1.4	6.3	-0.005
			390.00	392.00	N256146	-0.002	47	1	5.5	-0.005
			392.00	394.00	N256147	0.003	26.8	1.9	4.9	-0.005
			394.00	396.00	N256148	-0.002	15.9	0.2	4.7	-0.005
			396.00	398.00	N256149	-0.002	21.1	0.7	7.9	-0.005
			398.00	400.00	N256151	0.002	100.7	0.7	6.9	-0.005
398.35 399.15 ANAM Amygdaloidal Andesite green										
398.35 - 399.15: Amygdaloidal Andesite. Amygdules are weakly chloritic. Diffuse contacts										
399.15 406.00 ANTF Tuffaceous Andesite buff			400.00	402.00	N256152	0.003	40.3	0.6	8.8	0.006
399.15 - 406: Ash Flow Tuff. As above.										
			402.00	404.00	N256153	-0.002	15.9	4.7	8	0.023
			404.00	406.00	N256154	-0.002	37.6	0.9	8.7	-0.005
406.00 412.00 ANTF Tuffaceous Andesite grey			406.00	408.00	N256155	-0.002	33.1	2.5	7.7	-0.005
406 - 412: Lapilli Tuff. Marked increase in fg silicification and increase in pyrite as disseminations and wispy stringers. Rare (to 1%) mm-scale wide grey quartz veins. Textures are largely destroyed by pervasive silicification, but locally looks like remnant lapilli fragments to 4cm.										
<<Min: 406 - 416: 10% pyrite / 2% zeolite / 1.5% anhydrite>>										
<<Vein: 406 - 416: 2% Pyrite / 2% Calcium carbonate/Carbonate / 0.5% Quartz / 2% Gypsum>>										
412.00 429.00 ANTF Tuffaceous Andesite grey			412.00	414.00	N256159	-0.002	17.2	1.5	3.7	-0.005
412 - 429: Ash Flow Tuff. As above, pervasive fg silicification with rare quartz veins.										
<<Min: 416 - 429: 8% pyrite / 0.5% zeolite / 2.5% anhydrite>>										
			414.00	416.00	N256160	0.003	11.5	1.1	3.7	-0.005



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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Alt: 416 - 439.2: strong Silica-Clay-Py>>			416.00	418.00	N256162	0.003	60.7	1	5.9	-0.005
<<Vein: 416 - 429: 2% Pyrite / 0.5% Calcium carbonate/Carbonate / 1% Quartz / 3% Gypsum>>			418.00	420.00	N256163	-0.002	65.3	0.5	5.2	-0.005
<<Struc: 412.8 - 415.35: moderate to strong Brittle Fracture 30 deg. / moderate to strong Slicks 30 deg. >>			420.00	422.00	N256164	-0.002	96.5	0.7	5.1	-0.005
<<Struc: 416.6 - 416.64: strong Gouge 60 deg. >>			420.00	422.00	N256165	-0.002	85.9	0.9	5.4	-0.005
			422.00	424.00	N256166	0.002	32.4	1.6	4.9	-0.005
			424.00	426.00	N256167	-0.002	38.7	1.5	6.3	-0.005
			426.00	428.00	N256168	0.002	21.8	2	3.8	-0.005
			428.00	430.00	N256169	0.005	39.1	0.9	7.2	-0.005
429.00	436.95	ANTF Tuffaceous Andesite buff	430.00	432.00	N256170	0.002	55.6	0.8	7.8	-0.005
429 - 436.95: Lapilli Tuff. As above, continuation of pervasive fg silicification.. Locally blebby mm-scale pyrophyllite. Downhole contact at 45 deg to CA.										
<<Min: 429 - 439.2: 6% pyrite / 0.5% zeolite / 1% gypsum / 2% pyrophyllite>>			432.00	434.00	N256172	-0.002	62.7	1.8	5.4	-0.005
<<Vein: 429 - 439.2: 3% Pyrite / 0.5% Calcium carbonate/Carbonate / 1% Gypsum>>			434.00	436.00	N256173	-0.002	57.1	1.5	5.6	-0.005
<<Struc: 429 - 429.01: moderate to strong Contact 70 deg. >>			436.00	438.00	N256174	-0.002	51.6	1.2	5.4	-0.005
<<Struc: 431.31 - 431.35: strong Gouge 55 deg. >>										
436.95	439.20	ANFX Feldspar-phyric Andesite buff	438.00	440.00	N256175	-0.002	63	1	4.7	-0.005
436.95 - 439.2: Crystal Ash Tuff. Strong clay alteration. Downhole contact at 40 deg to CA.										
<<Struc: 436.95 - 437.55: moderate Brittle Fracture 50 deg. / moderate Local Gouge>>										
439.20	441.70	DYKE Dyke (mafic) green	440.00	442.00	N256176	-0.002	49	1.3	3.8	-0.005
439.2 - 441.7: Epidote flooded dyke, possibly feldspar porphyry. Non magnetic. Contacts at 40 deg to CA.										
<<Min: 439.2 - 441.7: 4% pyrite / 4% zeolite / 10% epidote>>										
<<Vein: 439.2 - 441.7: / 4% Calcium carbonate/Carbonate>>										
<<Struc: 439.2 - 439.21: moderate Contact 40 deg. >>										
441.70	471.40	ANTF Tuffaceous Andesite green	442.00	444.00	N256177	-0.002	62.1	0.8	5.3	-0.005
441.7 - 471.4: Ash Flow Tuff with some scattered subrounded lapilli fragments to 7cm. Abundant epidote as weak to moderate replacement of clay altered feldspars. Anhydrite veins essentially disappear through this interval and pyrite content decreases to 2-3% with no py veins only fg disseminations. Dark green patchy alteration (possibly sericite?) from 460-471.4m.										
<<Min: 441.7 - 471.4: 2.5% pyrite / 1.5% zeolite / 1% pyrophyllite / 5% epidote>>			444.00	446.00	N256179	-0.002	49.5	0.6	5.8	-0.005
<<Vein: 441.7 - 454: / 1% Calcium carbonate/Carbonate>>			446.00	448.00	N256180	-0.002	51.9	1.5	6.2	-0.005
<<Vein: 454 - 462: / 1.5% Calcium carbonate/Carbonate / 1% Quartz>>			448.00	450.00	N256181	0.002	45.7	1.4	5.9	-0.005
<<Vein: 462 - 471.4: / 2% Calcium carbonate/Carbonate / 0.5% Quartz>>			450.00	452.00	N256182	-0.002	47	0.8	5.4	-0.005
<<Struc: 448.42 - 448.82: strong Gouge 55 deg. >> clay fault gouge			450.00	452.00	N256183	-0.002	49.9	0.8	5.7	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Struc: 452.69 - 453.4: moderate to strong Local Gouge 50-60 deg. >>			452.00	454.00	N256184	-0.002	44.1	1.3	7.3	-0.005
<<Struc: 454.15 - 454.26: moderate Gouge 60 deg. >>			454.00	456.00	N256185	-0.002	47.7	1.8	5.6	-0.005
<<Struc: 466.01 - 466.04: moderate to strong Gouge 70 deg. >>			456.00	458.00	N256186	-0.002	32.8	1.4	6.9	-0.005
<<Struc: 470.87 - 470.89: moderate Gouge 45 deg. >>			458.00	460.00	N256187	-0.002	26.3	0.9	5	-0.005
			460.00	462.00	N256188	0.002	38.7	1	3.7	-0.005
			462.00	464.00	N256189	0.002	55.7	0.4	5.8	-0.005
			464.00	466.00	N256191	-0.002	27.7	1.3	5	-0.005
			466.00	468.00	N256192	-0.002	23.1	1.2	5.1	-0.005
			468.00	470.00	N256193	0.002	22.3	1.3	4.4	-0.005
			470.00	471.50	N256194	0.002	57.5	1.9	5.9	-0.005
			471.50	473.00	N256195	-0.002	26.3	1.2	7.8	-0.005
471.40 511.60 ANFX Feldspar-phyric Andesite buff										
471.4 - 511.6: Ash Flow Tuff with sparse tuff fragments to 3cm. Pervasive fg silicification. Epidote replacement is gone and re-appearance of anhydrite veins. Pyrite content increased to approx 10% as disseminated masses replacing ash fragments and as 1-3mm veins.										
<<Min: 471.4 - 486: 8% pyrite / 6% zeolite / 3% anhydrite>>			473.00	476.00	N256196	-0.002	28.1	1.3	7.3	-0.005
<<Min: 486 - 502: 10% pyrite / 2.5% zeolite / 3% anhydrite>>			476.00	479.00	N256198	0.002	28.5	1.9	8.6	-0.005
<<Min: 502 - 511.6: 8% pyrite / 6% zeolite / 3% anhydrite>>			479.00	482.00	N256199	0.002	19.2	1.3	7.6	-0.005
<<Vein: 471.4 - 486: 3% Pyrite / 6% Calcium carbonate/Carbonate / 0.5% Quartz / 2.5% Gypsum>>			482.00	485.00	N256200	0.003	12.7	1.6	5.4	-0.005
<<Vein: 486 - 502: 4% Pyrite / 2.5% Calcium carbonate/Carbonate / 0.5% Quartz / 3% Gypsum>>			485.00	488.00	N256201	-0.002	13	1.6	6.7	-0.005
<<Vein: 502 - 512: 3% Pyrite / 6% Calcium carbonate/Carbonate / 0.5% Quartz / 3% Gypsum>>			485.00	488.00	N256202	-0.002	14.9	1.6	6.4	-0.005
<<Struc: 481.77 - 482.6: moderate Shear zone 45 deg. / weak to moderate Breccia>>			488.00	491.00	N256203	-0.002	21.5	1.1	5.9	-0.005
<<Struc: 502.6 - 502.63: strong Gouge 70 deg. >>			491.00	494.00	N256204	-0.002	29.2	1.3	5.8	-0.005
			494.00	497.00	N256205	0.002	28.3	2	8.3	-0.005
			497.00	500.00	N256206	-0.002	17.9	1.5	6.4	-0.005
			500.00	503.00	N256207	0.026	37.1	1.2	6.9	-0.005
			503.00	506.00	N256209	0.006	14.9	1.5	7.8	-0.005
			506.00	509.00	N256210	0.012	28.3	1	8.2	-0.005
			509.00	512.00	N256211	0.005	23.7	1.9	8.6	-0.005
			512.00	515.00	N256212	0.014	64.7	2.1	8.3	-0.005
511.60 518.25 ANTF Tuffaceous Andesite buff										
511.6 - 518.25: Flow Breccia. Pervasive fg silicification. Wispy pyrite rimming fragments.										
<<Min: 511.6 - 518.7: 12% pyrite / 2% zeolite / 0.5% anhydrite>>			515.00	518.00	N256213	0.017	42.3	3.2	7.2	-0.005
<<Vein: 512 - 522.1: 3% Pyrite / 2% Calcium carbonate/Carbonate / 1% Gypsum>>			515.00	518.00	N256214	0.002	45.7	2.7	7.9	-0.005
<<Struc: 512 - 512.69: weak to moderate Local Gouge 60 deg. >>			518.00	521.00	N256215	0.032	60.8	1.1	5.7	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
518.25	526.10	ANTF Tuffaceous Andesite green	521.00	524.00	N256216	0.017	63.5	1.8	5.9	-0.005
518.25 - 526.1: Ash Flow Tuff. As above with dm-scale wide intervals of flow breccia. SCP-PRO altered with epidote replacing clay altered feldspars increasing towards dyke contact.										
<<Min: 518.7 - 526.1: 2% pyrite / 2% zeolite / 5% epidote>>										
<<Vein: 522.1 - 530.2: / 2% Calcium carbonate/Carbonate>>										
526.10	528.40	DYKE Dyke (mafic) green	524.00	527.00	N256217	0.003	56.3	2.5	3.7	-0.005
526.1 - 528.4: PRO altered dyke as per 439.2-441.7m. Possibly FP. Chilled margins over several metres.										
<<Min: 526.1 - 528.4: 0.5% pyrite / 2% zeolite / 10% epidote>>										
<<Struc: 526.1 - 526.11: weak Contact 20 deg. >>										
528.40	552.10	ANTF Tuffaceous Andesite buff	527.00	530.00	N256218	-0.002	50.9	0.9	4.2	-0.005
528.4 - 552.1: Lapilli Tuff. Subrounded to subangular fragments to 6cm. Epidote replacement of clay altered feldspar and locally weak chloritization of some fragments. Diffuse lower contact.										
<<Min: 528.4 - 532: 1% pyrite / 2% zeolite / 1% anhydrite / 2% chlorite / 3% epidote>>										
<<Min: 532 - 552.1: 1% pyrite / 5% zeolite / 1% anhydrite / 2% chlorite / 3% epidote>>										
<<Vein: 530.2 - 552.1: / 4% Calcium carbonate/Carbonate / 1% Gypsum>>										
<<Struc: 531.8 - 533.22: moderate to strong Shear zone 45 deg. / weak Breccia>>										
552.10	575.00	ANTF Tuffaceous Andesite buff	530.00	533.00	N256219	-0.002	64.8	1.4	6.3	-0.005
552.1 - 575: Ash Flow Tuff. As above. SCP with spotty epidote replacement of clay altered feldspar and very weakly chlorite altered fragments (PRO).										
<<Min: 552.1 - 564: 3% pyrite / 3% zeolite / 2% chlorite / 2% epidote>>										
<<Min: 564 - 575: 3% pyrite / 3% zeolite / 5% epidote / 2% chlorite>>										
<<Vein: 552.1 - 582: / 3% Calcium carbonate/Carbonate>>										
<<Struc: 553.3 - 553.34: strong Gouge 80 deg. >>										
<<Struc: 553.85 - 554.1: moderate to strong Shear zone 45 deg. >>										
575.00	598.20	ANAM Amygdaloidal Andesite green FG	533.00	536.00	N256221	0.004	52.3	0.9	8.4	-0.005
575 - 598.2: Amygdaloidal Andesite. Massive flow with chlorite altered amygdules to 5mm. PRO altered transitions to CMG altered in the core of the flow with chlorite and wispy magnetite. Lower contact at 50 deg to CA.										
<<Min: 575.00 - 598.20: 5% pyrite / 5% zeolite / 5% epidote / 5% chlorite / 5% magnetite / 5% magnetite / 5% magnetite>>										
<<Struc: 575.00 - 598.20: 50 deg to CA>>										
			536.00	539.00	N256222	-0.002	42.1	1	5.6	-0.005
			539.00	542.00	N256223	-0.002	37	0.9	6.6	-0.005
			542.00	545.00	N256224	-0.002	52.4	0.6	5.9	-0.005
			545.00	548.00	N256225	-0.002	49.9	0.8	5.6	-0.005
			548.00	551.00	N256227	-0.002	43.8	0.2	4.3	-0.005
			551.00	554.00	N256228	-0.002	34	1.4	6.5	-0.005
			554.00	557.00	N256229	-0.002	21.5	1.4	8.2	-0.005
			557.00	560.00	N256230	-0.002	27.1	1.1	6.8	-0.005
			560.00	563.00	N256231	-0.002	32.7	4.3	6.6	-0.005
			560.00	563.00	N256232	-0.002	30.5	4.9	6.7	-0.005
			563.00	566.00	N256233	-0.002	29.4	2.2	6.2	-0.005
			566.00	569.00	N256234	-0.002	47.1	1.1	7	-0.005
			569.00	572.00	N256235	-0.002	38.3	0.6	6.8	-0.005
			572.00	575.00	N256236	-0.002	43.9	0.9	6.3	-0.005
			575.00	578.00	N256237	-0.002	49.3	0.8	5.9	-0.005

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 575 - 585.6: 1% pyrite / 4% zeolite / 5% epidote / 2% chlorite>>			578.00	581.00	N256239	-0.002	43.3	0.5	7.4	-0.005
<<Min: 585.6 - 587.5: 1% pyrite / 8% magnetite / 6% zeolite / 5% epidote / 10% chlorite>>			581.00	584.00	N256240	-0.002	53.2	0.5	5.1	-0.005
<<Min: 587.5 - 602: 3% pyrite / 3% zeolite / 1% anhydrite / 5% epidote / 2% chlorite>>			584.00	587.00	N256241	-0.002	58.6	0.6	3.2	-0.005
<<Vein: 582 - 594: / 5% Calcium carbonate/Carbonate>>			587.00	590.00	N256242	-0.002	57.6	0.8	4.6	-0.005
<<Vein: 594 - 602: / 3% Calcium carbonate/Carbonate / 1% Quartz / 1% Gypsum>>			590.00	593.00	N256243	-0.002	50.9	0.5	6.1	-0.005
<<Struc: 575 - 575.1: moderate to strong Contact 50 deg. >>			593.00	596.00	N256245	-0.002	44.5	0.4	10	-0.005
<<Struc: 593.6 - 594: moderate Fault Zone 70 deg. / weak to moderate Breccia>> Healed fault zone with weak brecciation on upper contact			596.00	599.00	N256246	-0.002	38.7	1	6.4	-0.005
<<Struc: 594.8 - 595.01: moderate Shear zone 60 deg. / weak to moderate Local Gouge 60 deg. >>										
598.20 613.55 ANTF Tuffaceous Andesite buff FG			599.00	602.00	N256247	-0.002	34.7	1.5	7.8	-0.005
598.2 - 613.55: Ash Flow Tuff. Pervasive fg silicification with spotty PRO alteration manifesting as epidote replacement of clay altered feldspar. Pyrite content shows marked increase from 602m as disseminated fg masses and rare mm-scale wide discontinuous stringers. From 605.2-606.9m, pervasive fg red-brown flooding of possibly hematite (hornfelsing)										
<<Min: 602 - 608: 6% pyrite / 9% zeolite / 1% anhydrite / 2% epidote>>			602.00	605.00	N256248	-0.002	30.4	1.1	5.7	-0.005
<<Min: 608 - 627: 10% pyrite / 4% zeolite / 1% anhydrite / 2% epidote>>			602.00	605.00	N256249	-0.002	31.9	1	6.3	-0.005
<<Vein: 602 - 608: 1% Pyrite / 8% Calcium carbonate/Carbonate / 1% Quartz / 1% Gypsum>>			605.00	608.00	N256250	-0.002	40	0.7	6.6	-0.005
<<Vein: 608 - 627: 2% Pyrite / 4% Calcium carbonate/Carbonate / 1% Quartz / 1% Gypsum>>			608.00	611.00	N256251	-0.002	47.9	1.2	6.4	-0.005
<<Struc: 604.6 - 604.87: moderate Brittle Fracture 20 deg. / weak to moderate Slicks>>			611.00	614.00	N256252	-0.002	64.7	0.7	7	-0.005
613.55 644.00 ANTF Tuffaceous Andesite buff FG			614.00	617.00	N256253	-0.002	48.9	0.4	7.4	-0.005
613.55 - 644: Lapilli Tuff. Pervasive fine grained silicification with spotty PRO alteration as partial replacement of some clay altered feldspars.										
<<Min: 627 - 644: 10% pyrite / 2% zeolite / 1% anhydrite>>			617.00	620.00	N256255	-0.002	38.9	0.9	7.2	-0.005
<<Vein: 627 - 644: 2% Pyrite / 1% Calcium carbonate/Carbonate / 1% Quartz / 1% Gypsum>>			620.00	623.00	N256256	-0.002	69.1	0.3	8.9	-0.005
			623.00	626.00	N256257	-0.002	55.4	0.7	7.5	-0.005
			626.00	629.00	N256258	-0.002	57	0.5	7	-0.005
			629.00	632.00	N256259	-0.002	68.4	0.6	8.4	-0.005
			629.00	632.00	N256260	-0.002	63.6	0.7	8.3	-0.005
			632.00	635.00	N256261	-0.002	34	0.8	8.6	-0.005
			635.00	638.00	N256262	-0.002	32.1	0.5	8.9	-0.005
			638.00	641.00	N256263	-0.002	53.6	0.7	8.6	-0.005
			641.00	644.00	N256264	-0.002	26.5	0.8	8.4	-0.005
644.00 650.95 ANAM Amygdaloidal Andesite green FG			644.00	647.00	N256265	-0.002	77.9	1.1	6	-0.005
644 - 650.95: Massive andesite flow; locally amygdaloidal with 5mm amygdules partially replaced by chlorite. Py-ep stringers. Cut by cm-scale wide pale grey SCP altered bands. Sharp lower contact at 75 deg to CA.										

GeoSpark Logger ~ Drill Log

Project:

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 644 - 650.95: 6% pyrite / 3% zeolite / 5% epidote / 5% chlorite>>			647.00	650.00	N256267	-0.002	71.3	0.9	5.3	-0.005
<<Vein: 644 - 650.95: 1% Pyrite / 2% Calcium carbonate/Carbonate>>			650.00	653.00	N256268	-0.002	41.4	1.1	10	-0.005
650.95	682.50	ANTF Tuffaceous Andesite buff FG	653.00	656.00	N256269	-0.002	20.3	1.2	8	-0.005
650.95 - 682.5: Andesite Tuff. Pervasive fg silicification with original textures largely destroyed. Pale brown-orange flooding locally probably from pyrophyllite to 673.7m. Pale grey, fine grained bleached illite or albite altered interval with pale green hue from sericite. Diffuse lower contact.										
<<Min: 650.95 - 682.5: 10% pyrite / 2% pyrophyllite / 2% zeolite / 1% anhydrite>>			656.00	659.00	N256270	-0.002	21.4	1.2	8	-0.005
<<Vein: 650.95 - 682.5: 2% Pyrite / 3% Calcium carbonate/Carbonate / 1% Quartz / 1% Gypsum>>			659.00	662.00	N256271	0.03	39.6	0.5	7.6	-0.005
			662.00	665.00	N256273	-0.002	54.3	0.8	5.8	-0.005
			665.00	668.00	N256274	-0.002	30.4	0.8	8.8	-0.005
			668.00	671.00	N256275	-0.002	30.9	1.1	8.3	-0.005
			671.00	674.00	N256276	-0.002	21.4	0.5	6.3	-0.005
			674.00	677.00	N256277	-0.002	37.9	0.8	5.9	-0.005
			674.00	677.00	N256278	-0.002	39.7	0.8	6.1	-0.005
			677.00	680.00	N256279	-0.002	25	1.6	5.9	-0.005
			680.00	683.00	N256280	-0.002	29.4	0.9	5.7	-0.005
682.50	694.10	ANFX Feldspar-phyric Andesite green FG	683.00	686.00	N256281	-0.002	40.9	0.7	5.2	-0.005
682.5 - 694.1: Feldspar phyric flow. Variably chloritized and epidote replacing feldspars. Core of the flow is more strongly PRO altered. Pyrite content markedly decreases with 1-2% py as fg disseminations. Diffuse lower contact.										
<<Min: 682.5 - 694.1: 2% pyrite / 2% pyrophyllite / 5% zeolite / 5% epidote / 10% chlorite>>			686.00	689.00	N256282	-0.002	13.7	0.9	3.5	-0.005
<<Vein: 682.5 - 694.1: / 5% Calcium carbonate/Carbonate>>			689.00	692.00	N256284	-0.002	22.7	0.9	2.2	-0.005
			692.00	695.00	N256285	-0.002	27.6	0.9	3.5	-0.005
694.10	701.00	ANTF Tuffaceous Andesite buff FG	695.00	698.00	N256286	-0.002	28.8	1.4	5.9	-0.005
694.1 - 701: Ash flow tuff. Pervasive fg silicification. Light grey colour as above possibly due to illite or albite. Ash fragments are green and variably chlorite altered with the cores partially replaced by pyrite.										
<<Min: 694.1 - 701: 8% pyrite / 3% zeolite>>			698.00	701.00	N256287	-0.002	15.4	2.2	6	-0.005
<<Vein: 694.1 - 701: 1% Pyrite / 2% Calcium carbonate/Carbonate / 1% Quartz>>										
End of Hole @ 701										



GeoSpark Logger ~ Drill Log

Project: Pemberton Hills **Hole Number:** P18-07

Prospect:		Survey Type:	GPS	Logged By:	JM
Grid:	NAD83_Z9	Survey By:	JM	Date Started:	27/11/2018
Easting:	588479	Azimuth:		Date Completed:	07/12/2018
Northing:	5609078	Dip:	-90	Drill Company:	Dorado
Elevation (m):		Length (m):	600	Drill Rig:	Rig4
Hole Type:	DD			Drill Started:	25/11/2018
Hole Diameter:				Drill Completed:	06/12/2018
Core Size:	HQ	Comments:			
Casing Pulled?:	<input type="checkbox"/>	Core diameter reduced to NQ at 444 metres. 90 metres of HQ rods lost in the hole and 45 metres of HW casing not recovered. Not cutting remaining NQ core due to limited time to cut.			
Casing Depth (m):					

Downhole Surveys:

Depth (m)	Dip	Measured Azimuth	Correction Factor	Corrected Azimuth	Survey Type	Survey By	Survey Date	Mag Field	Accept Values?	Comments
11	-73.1	277.1	17.5	294.6	ReflexEZS		05/12/2018	53069	<input type="checkbox"/>	
510	-72.9	277.6	17.5	295.1	ReflexEZS		05/12/2018	54248	<input checked="" type="checkbox"/>	Survey from P18-04A
546	-87.8	251.9	17.5	269.4	ReflexEZS		05/12/2018	53809	<input checked="" type="checkbox"/>	
558	-87.9	273.8	17.5	291.3	ReflexEZS		05/12/2018	53198	<input checked="" type="checkbox"/>	
600	-88.2	243.8	17.5	261.3	ReflexEZS		05/12/2018	243.8	<input checked="" type="checkbox"/>	Measurements taken by Clint of Dorado.

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
0.00	17.00	OVER Overburden								
0 - 17: Mainly gravels.										
<<Vein: 0 - 17: >> Casing, no core recovered										
17.00	140.00	ANTF Tuffaceous Andesite grey	17.00	19.00	N253657	0.003	34.1	0.9	3.7	0.006
17 - 140: From 17 metres to 51 metres is a major fault zone consisting mainly of gouge with short sections of fault breccia. Much of the gouge consists of small, 2-3mm rounded fragments of the more silicified tuff in a clay and rock flour matrix. The original rock was a lapilli tuff. Alteration is clay and pyrite. The clay has a pale green colour. Between 51 metres and 53.4 metres the rock is not faulted and the host rock is an ash tuff dominated by feldspar crystal fragments. The matrix has a pale rose colour possibly due to pyrophyllite alteration. Pyrite is mainly disseminated grains replacing ash fragments, but is also present in dry, hairline fractures. Zircon / carbonate veining present as a stockwork with veins to 3mm. The rock is again mainly gouge from 53.4 metres to 59 metres. Below 59, the tuff is criss crossed by pyrite stringers and the rock has a distinct rose colour due to pyrophyllite. Silicification is pervasive replacement. Feldspars are soft and chalky.										
<<Min: 17 - 51: 6% pyrite>> Pyrite as fine grains in the gouge and as disseminations in the host rock replacing ash and lapilli clasts. The intense faulting and destruction of the primary rock makes identifying the host form difficult.										
			19.00	21.00	N253658	0.002	45.9	1.8	4.5	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 51 - 53.4: 7% pyrite / 3% zeolite>>		Mainly fine grained disseminations and lesser bleb-like replacements of volcanic clasts / fragments. Pyrite veins are hairline with and make up about 10% of the pyrite content.	21.00	23.00	N253659	0.004	46.8	2.9	3.7	0.008
<<Min: 53.4 - 59: 6% pyrite / 1% zeolite>>		Pyrite as above in the other fault zone. Zeolite carbonate veins are largely crushed and incorporated into the fault gouge.	23.00	25.00	N253661	0.002	27.5	2	2.7	0.01
<<Min: 59 - 136: 6% pyrite / 5% pyrophyllite>>		Pyrite as above in previous competent rock section. Pyrophyllite replaces ash fragments . A black mineral often is associated with the pyrite in veins and disseminations.	25.00	27.00	N253662	-0.002	28.4	0.8	2.8	-0.005
<<Min: 136 - 140: 5% pyrite / 2% pyrophyllite>>			27.00	29.00	N253663	-0.002	33.9	0.8	5.2	-0.005
<<Alt: 51 - 53.4: moderate to strong Silica-Clay-Py>>		Feldspars and matrix replaced by clay including pyrophyllite. Silicification is pervasive and of moderate intensity. Pyrite is mainly fine disseminations, coarser grained replacement of larger ash fragments and a network of pyrite stringers present.	29.00	31.00	N253664	-0.002	25.9	1.1	5.5	-0.005
<<Vein: 17 - 140: >>			31.00	33.00	N253665	0.003	15.3	1.1	5.9	0.008
<<Vein: 59 - 69: 1% Pyrite / 3% Calcium carbonate/Carbonate>>		Pyrite stringers hairline width. Carb - zeolite veins are included in the CB field	33.00	35.00	N253667	0.002	25.7	1.6	4.7	0.007
<<Struc: 17 - 51: intense Fault Zone 65 deg. >>		Intense fault zone of gouge, fault breccia and crushed rock	35.00	37.00	N253668	0.002	59.2	1.2	5.2	-0.005
<<Struc: 53.4 - 59: strong Fault Zone 65 deg. >>		As above.	37.00	39.00	N253669	0.003	54.8	1.1	6.3	-0.005
<<Struc: 69 - 69.3: moderate to strong Fault Zone 60 deg. >>			39.00	41.00	N253670	0.009	36.8	1.1	7	-0.005
<<Struc: 85.4 - 85.5: moderate Breccia 50 deg. >>		Fault breccia	41.00	43.00	N253671	-0.002	46.4	1.6	6.4	-0.005
<<Struc: 87 - 87.15: strong Gouge 50 deg. >>			43.00	45.00	N253673	0.002	33.2	1.6	7.1	-0.005
<<Struc: 96 - 96.5: moderate to strong Fault Zone 40 deg. >>			45.00	47.00	N253674	0.002	44.4	2.3	9.2	-0.005
<<Struc: 103.5 - 104.5: moderate to strong Fault Zone 50 deg. >>			47.00	49.00	N253675	0.002	64.8	5.1	7	-0.005
<<Struc: 106.5 - 107.5: moderate to strong Fault Zone 35 deg. >>			49.00	51.00	N253676	-0.002	58.8	4.4	6	0.01
<<Struc: 113.7 - 114.3: moderate to strong Fault Zone 45 deg. >>			51.00	53.00	N253677	0.003	50.1	3.2	8.1	0.012
<<Struc: 117.5 - 118: moderate to strong Fault Zone 25 deg. >>			51.00	53.00	N253678	0.003	42.8	2	7	0.011
<<Struc: 135 - 140: strong Fault Zone 40 deg. >>		Faulted contact with late dyke. Crushing and gouge becomes more intense towards contact	53.00	55.00	N253679	-0.002	31.1	3.8	5	0.053
			55.00	57.00	N253680	-0.002	36.2	4.9	2	0.009
			57.00	59.00	N253681	-0.002	25.9	4.1	2.9	0.016
			59.00	61.00	N253682	0.002	19.5	3.6	3.5	0.017
			61.00	63.00	N253683	0.003	11.7	0.8	4.6	-0.005
			63.00	65.00	N253685	0.004	12.6	1.3	4.5	0.011
			65.00	67.00	N253686	0.002	14.1	2.3	4	-0.005
			67.00	69.00	N253687	-0.002	15.8	3.3	3.8	0.007
			69.00	71.00	N253689	0.004	17.7	0.8	4.3	-0.005
			69.00	71.00	N253690	0.003	13.7	0.6	3.7	-0.005
			71.00	73.00	N253688	0.002	15.2	0.7	3.8	0.006
			73.00	75.00	N253691	0.002	11.4	0.5	4.2	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			75.00	77.00	N253692	0.003	21.9	1.5	5.5	-0.005
			77.00	79.00	N253693	0.003	29.5	1	3.5	-0.005
			79.00	81.00	N253694	0.003	26.3	2.3	3.6	0.013
			81.00	83.00	N253695	0.003	27.8	2.7	5.9	-0.005
			83.00	85.00	N253697	0.004	32	1.9	5	0.007
			85.00	87.00	N253698	-0.002	26.6	1.9	3	0.009
			87.00	89.00	N253699	-0.002	16.8	1.6	1.1	0.012
			89.00	91.00	N253700	0.002	30.4	2	3.5	0.006
			91.00	93.00	N253701	0.002	22.4	2.1	4.9	-0.005
			93.00	95.00	N253702	-0.002	23.4	3.3	2.9	0.006
			93.00	95.00	N253703	0.003	22.6	2.9	3	0.01
			95.00	97.00	N253704	-0.002	24.3	2	3.6	-0.005
			97.00	99.00	N253705	-0.002	23.8	2	3.7	0.005
			99.00	101.00	N253706	-0.002	26.1	3.4	4.2	-0.005
			101.00	103.00	N253707	-0.002	32.1	0.9	3.9	-0.005
			103.00	105.00	N253709	0.002	32	1.8	4.5	-0.005
			105.00	107.00	N253710	0.002	44.8	1.3	5.2	-0.005
			107.00	109.00	N253711	0.002	132.6	6.1	7.2	-0.005
			109.00	111.00	N253712	0.003	138.6	2.9	7.4	-0.005
			109.00	111.00	N253713	0.003	136.9	3.2	7.6	-0.005
			111.00	113.00	N253714	0.003	81	3.6	5.5	0.005
			113.00	115.00	N253715	0.003	47.4	4.8	6	0.006
			115.00	117.00	N253716	0.002	72.3	3.4	5.9	-0.005
			117.00	119.00	N253717	-0.002	46.6	1.2	5.4	-0.005
			119.00	121.00	N253719	-0.002	49.6	1.9	6.2	-0.005
			121.00	123.00	N253720	0.002	42.3	1.3	4.6	-0.005
			123.00	125.00	N253721	-0.002	67.2	1.8	5.2	-0.005
			125.00	127.00	N253722	-0.002	93	3.5	6.1	-0.005
			127.00	129.00	N253723	-0.002	141.9	7.8	5.3	0.007
			129.00	131.00	N253727	0.003	70.3	14.3	7.5	-0.005
			131.00	133.00	N253726	-0.002	73.8	6.7	5.5	-0.005
			133.00	135.00	N253725	-0.002	39.2	3.9	4.5	0.008
			135.00	137.00	N253728	0.002	33.4	1.2	5.1	0.01
			137.00	139.00	N253729	0.003	28.2	1.6	5.5	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
140.00	154.80	DYKE Dyke (mafic) green VFG	139.00	141.00	N253730	0.007	37.2	7.1	7.3	-0.005
			139.00	141.00	N253731	0.009	37.3	8.4	7.8	-0.005
			141.00	143.00	N253732	0.004	51.6	1	2.9	-0.005
<p>140 - 154.8: Very fine grained green coloured feldspar, hornblende andesite porphyry. Upper contact is a fault zone at 40 degrees to core axis. Highly magnetic with very minor pyrite along hairline width fractures. Minor copper oxide at contact. This is a late dyke and post or late mineralization. Lower contact is chilled and steep to CA.</p> <p><<Min: 140 - 154.8: 1% pyrite / 5% magnetite>> Magnetite is disseminated in groundmass. Pyrite in hairline veinlets <<Vein: 140 - 154.8: 1% Pyrite / 1% Calcium carbonate/Carbonate>></p>			143.00	145.00	N253733	0.006	39.5	0.7	2.6	-0.005
			145.00	147.00	N253734	0.005	70.4	0.8	3.1	-0.005
			147.00	149.00	N253735	0.003	64.8	0.6	2.5	-0.005
			149.00	151.00	N253737	0.004	82.8	1	3.4	0.007
			151.00	153.00	N253738	0.004	65.8	1	3.3	-0.005
			153.00	155.00	N253739	0.003	52.9	1.6	6.3	-0.005
			155.00	157.00	N253740	-0.002	44.3	1.2	6.1	-0.005
154.80	202.50	ANTF Tuffaceous Andesite grey	157.00	159.00	N253742	-0.002	26	0.8	6.7	-0.005
<p>154.8 - 202.5: Grey coloured ash to lapilli tuff with strong SCP alteration. Increasing pyrite in veins, now upto 5mm thick. Some breccia sections maybe later and fault related.</p> <p><<Min: 154.8 - 202.5: 8% pyrite / 2% pyrophyllite>> Very fine grained black mineral associated with pyrite. <<Vein: 154.8 - 202.5: 2% Pyrite / 2% Calcium carbonate/Carbonate>> <<Struc: 154.8 - 154.85: intense Contact 35 deg. >> Contact with dyke sharp with chilled margin in dyke. <<Struc: 158 - 158.1: strong Gouge 40 deg. >> <<Struc: 160.5 - 160.8: moderate to strong Fault Zone 40 deg. >> <<Struc: 166.5 - 168.3: strong Fault Zone 35 deg. >> Contains sections of gouge <<Struc: 171 - 173: moderate to strong Fault Zone 45 deg. >> <<Struc: 195.3 - 195.6: intense Gouge 45 deg. >> <<Struc: 200 - 202.5: moderate to strong Fault Zone 45 deg. >></p>			159.00	161.00	N253744	0.002	33.6	0.4	8.1	-0.005
			161.00	163.00	N253743	0.003	31.7	0.2	7.7	-0.005
			163.00	165.00	N253745	0.002	47.6	0.5	7	-0.005
			165.00	167.00	N253747	0.004	77.2	0.5	10	-0.005
			167.00	169.00	N253748	-0.002	26.8	0.8	7.4	-0.005
			169.00	171.00	N253749	-0.002	24.2	0.6	6.7	-0.005
			171.00	173.00	N253750	-0.002	32.2	0.4	7	-0.005
			173.00	175.00	N253751	0.003	27.2	0.3	6	-0.005
			175.00	177.00	N253752	0.003	40.9	0.4	5.2	-0.005
			177.00	179.00	N253754	0.003	42.8	0.2	6.8	-0.005
			179.00	181.00	N253755	0.003	70.6	0.4	4.5	-0.005
			181.00	183.00	N253756	0.003	43.5	0.2	5	-0.005
			183.00	185.00	N253757	0.002	27	1.9	5.7	-0.005
			183.00	185.00	N253758	0.003	28.6	2.9	5.5	-0.005
			185.00	187.00	N253759	0.003	65.8	0.7	6.7	-0.005
			187.00	189.00	N253760	0.002	48	0.4	7.2	-0.005
			189.00	191.00	N253761	0.003	93.6	0.5	7.5	-0.005
			191.00	193.00	N253762	0.002	93.6	0.5	7.5	-0.005

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From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			193.00	195.00	N253763	0.002	31.2	1.2	5.6	-0.005
			195.00	197.00	N253764	-0.002	37.2	1.4	5.6	-0.005
			195.00	197.00	N253765	0.004	26.5	1.6	5.5	-0.005
			197.00	199.00	N253766	0.002	14	1.9	5	-0.005
			199.00	201.00	N253767	0.002	25.8	1.5	5	-0.005
			201.00	203.00	N253768	0.003	79.7	4.5	5.2	-0.005
			203.00	205.00	N253769	0.002	65.4	2	2.6	-0.005
202.50	209.00	DYKE Dyke (mafic)								
		green								
		VFG								
202.5 - 209: As above. Late dyke with minor pyrite in fractures. Upper contact is fault at 45 degrees and lower contact fault at 50 degrees.										
<<Min: 202.5 - 209: 1% pyrite / 5% magnetite>> Pyrite in hairline veins										
<<Vein: 202.5 - 209: 0.1% Pyrite / 1% Calcium carbonate/Carbonate>>										
209.00	224.10	ANFX Feldspar-phyric Andesite								
		grey								
		FMG								
209 - 224.1: Grey coloured crystal ash tuff. Feldspars are dominant crystal fragments. Faint pale green colour in sections, possible sericite or illite. Patchy pervasive silicification and disseminated pyrite and lesser later pyrite stringers.										
<<Min: 209 - 224.1: 8% pyrite / 3% pyrophyllite>>										
<<Vein: 209 - 224.1: 1% Pyrite / 4% Calcium carbonate/Carbonate>>										
<<Struc: 210 - 210.5: strong Fault Zone 50 deg. >>										
<<Struc: 210.5 - 224: moderate Brittle Fracture 50 deg. >> Rock is generally brocked, abundant fractures.										
<<Struc: 224 - 224.3: intense Fault Zone 20 deg. >> Faulted contact with dyke.										
			205.00	207.00	N253771	0.004	68.3	1.3	3.4	-0.005
			207.00	209.00	N253772	0.003	81.7	1.1	2.7	-0.005
			209.00	211.00	N253773	0.003	38.4	1	4.9	-0.005
224.10	226.00	DYKE Dyke (mafic)								
		green								
		VFG								
224.1 - 226: As above. Upper contact is a fault at 35 degrees. Lower contact is at 90 degrees and has a chilled margin.										
<<Min: 224.1 - 226: 0.3% pyrite / 5% magnetite>> Pyrite in dyke restricted to hailine width veins.										
<<Vein: 224.1 - 226: / 1% Calcium carbonate/Carbonate>>										
226.00	233.90	ANFX Feldspar-phyric Andesite								
		grey								
		FMG								
226 - 233.9: As previous interval.										
<<Min: 226 - 233.9: 8% pyrite / 4% pyrophyllite>>										
<<Vein: 226 - 233.9: 1% Pyrite / 4% Calcium carbonate/Carbonate>>										
<<Struc: 226 - 226.2: intense Contact 90 deg. >> Intrusive contact with chilled margin in dyke.										
			227.00	229.00	N253784	0.005	34.2	1.4	6.7	-0.005
			229.00	231.00	N253786	0.003	24.6	6.7	7.2	0.009
			231.00	233.00	N253787	0.008	48.2	1.5	5.9	-0.005
			233.00	235.00	N253788	0.008	45	2	3.7	0.01

GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-07

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
233.90	268.90	DYKE Dyke (mafic) green VFG	235.00	237.00	N253789	0.006	44.8	1.3	1.8	0.012
233.9 - 268.9: As above. Some SCP overprint at contacts and around fractures, otherwise largely unaltered.										
<<Min: 233.9 - 268.9: 1% pyrite / 5% magnetite>> Pyrite in hairline stringers										
<<Vein: 233.9 - 268.9: 0.3% Pyrite / 2% Calcium carbonate/Carbonate>>										
<<Struc: 234 - 234.3: intense Contact 45 deg. >> Chilled margin at contact.										
<<Struc: 246.8 - 246.9: strong Slicks 45 deg. >> Slickensides indicate normal movement										
<<Struc: 260.4 - 260.6: moderate to strong Fault Zone 35 deg. >>										
<<Struc: 268.8 - 269: intense Contact 65 deg. >> Sharp intrusive contact with chilled margin in dyke.										
			235.00	237.00	N253790	0.006	44.6	1.2	1.7	-0.005
			237.00	239.00	N253791	0.005	55.1	1.1	2.5	-0.005
			239.00	241.00	N253792	0.004	45	1.2	3	-0.005
			241.00	243.00	N253793	0.003	53.9	1.7	1.8	-0.005
			243.00	245.00	N253794	0.003	49.7	1.7	1.5	-0.005
			245.00	247.00	N253795	0.002	59.5	0.8	2.2	-0.005
			247.00	249.00	N253796	0.004	50.8	0.8	2.1	-0.005
			247.00	249.00	N253797	0.005	42.5	0.8	1.5	-0.005
			249.00	251.00	N253798	0.003	36	1	1.4	-0.005
			251.00	253.00	N253799	0.003	50.2	1.4	1.6	-0.005
			253.00	255.00	N253800	0.003	46.2	2.4	2.3	-0.005
			255.00	257.00	N253801	0.004	45.3	1.9	2.4	-0.005
			257.00	259.00	N253802	0.003	31.2	1	1.3	-0.005
			259.00	261.00	N253803	0.004	43.2	11.9	1.9	-0.005
			261.00	263.00	N253805	0.004	49.3	1	1.9	-0.005
			263.00	265.00	N253806	0.004	43.5	1.5	2.2	-0.005
			265.00	267.00	N253807	0.003	32.3	1.2	1.5	-0.005
			267.00	269.00	N253808	0.003	39.6	1.3	1.3	-0.005
268.90	280.00	ANFX Feldspar-phyric Andesite grey FMG	269.00	271.00	N253809	0.006	33.6	0.7	2.4	-0.005
268.9 - 280: Crystal ash tuff as above. Upper contact sharp at 55 degrees with chilled margin in dyke. Lower contact is fault zone. To the fault, the SCP alteration is strong.										
<<Min: 268.9 - 280: 6% pyrite / 5% pyrophyllite>>										
<<Vein: 268.9 - 280: 1% Pyrite / 6% Calcium carbonate/Carbonate>> Carb zeolite veins increase in fault zone at lower contact.										
<<Struc: 278.8 - 280: strong Fault Zone 50 deg. >> Major change in rock type and alteration across fault zone.										
			271.00	273.00	N253811	0.004	13.4	1.8	4.1	0.008
			273.00	275.00	N253812	0.005	38.5	0.7	4.1	-0.005
			275.00	277.00	N253813	0.002	19.6	1.6	5.6	-0.005
			277.00	279.00	N253814	0.002	18.2	1	4.7	-0.005
			279.00	281.00	N253815	0.006	32.7	2.2	4.3	0.008
280.00	306.00	ANTF Tuffaceous Andesite grey	281.00	283.00	N253817	0.003	28.2	1.5	2.6	0.029
280 - 306: Grey lapilli tuff. Contact with above unit is a fault zone. SCP alteration weaker and propylitic alteration dominates or incompletely replaced by later clay alteration. First appearance of magnetite. By 291 metres, propylitic alteration has disappeared. In the upper part of the interval where propylitic alteration is dominant, rock textures more apparent.										



GeoSpark Logger ~ Drill Log

Project:

Pemberton Hills

Hole Number:

P18-07

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
<<Min: 280 - 292: 5% pyrite / 5% magnetite>>		Magnetite is replacing mafic minerals	283.00	285.00	N253818	0.005	13.4	0.9	2.3	0.006
<<Min: 292 - 303: 5% pyrite>>			285.00	287.00	N253819	0.024	27.6	0.8	1.5	-0.005
<<Min: 303 - 306: 3% pyrite>>			287.00	289.00	N253820	0.058	45.1	0.9	2.8	-0.005
<<Vein: 280 - 306: 1% Pyrite / Calcium carbonate/Carbonate>>		In Propylitically dominated areas pyrite occurs in increased amounts as veins than disseminations	289.00	291.00	N253821	0.007	31	0.8	2.6	-0.005
<<Struc: 280 - 288: moderate to strong Brittle Fracture 50 deg. >>		Rock brocken below fault.	291.00	293.00	N253823	0.004	16.1	3.9	3.8	0.064
			293.00	295.00	N253824	0.004	19.2	1.9	3	0.019
			295.00	297.00	N253825	0.005	176.5	4.8	4.2	-0.005
			297.00	299.00	N253826	0.004	37.4	1	4.3	-0.005
			299.00	301.00	N253827	0.004	24.2	2.3	3.9	-0.005
			299.00	301.00	N253828	0.004	22.2	2	3.5	0.007
			301.00	303.00	N253829	0.007	62.6	5.4	5.6	0.008
			303.00	305.00	N253830	0.004	44.4	8.5	5.1	0.014
			305.00	307.00	N253831	0.005	59.1	16.6	3.9	0.01
306.00 324.30 ANFX		Feldspar-phyric Andesite								
		grey								
		FMG								
306 - 324.3: Crystal ash tuff as above. Strong to very strong SCP alteration. Likely pyrophyllite as in the intervals above. Pyrite as disseminations and stringers. Silicification mainly pervasive. Quartz veining present in the last 2 metres of this interval. Lower contact is a major fault with mylonite and cataclastic textures which persists over 1 metre in the rock unit below.										
<<Min: 306 - 324.3: 7% pyrite / 3% pyrophyllite>>		Black mineral present with pyrite, very fine grained.	309.00	311.00	N253833	0.004	33	3.3	3.5	0.008
<<Vein: 306 - 324.3: 2% Pyrite / 3% Calcium carbonate/Carbonate / 0.5% Quartz>>		Quartz veins appear near lower contact with fault. Most of the quartz veining is with in 2 metres of the contact.	311.00	313.00	N253834	0.003	69.5	3.5	4	0.017
			313.00	315.00	N253835	0.003	51.4	25.9	4.5	0.336
			315.00	317.00	N253836	0.003	28.9	2.6	3	0.007
			317.00	319.00	N253837	0.003	38.2	9.7	3.6	0.047
			319.00	321.00	N253838	0.005	27.5	15	3.3	0.053
			319.00	321.00	N253839	0.004	23.7	15.9	2.9	0.083
			321.00	323.00	N253840	0.004	30.3	12.3	3.7	0.033
			323.00	325.00	N253841	0.01	42.2	17.2	2.9	0.068

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
324.30	600.00	PQD Porphyritic Quarz Diorite green FMG	325.00	327.00	N253842	0.008	71.5	3.2	0.6	-0.005
<p>324.3 - 600: Crowded porphyritic quartz diorite similar to that in the lower part of P18-04A. Rock has a mottled colour of green and salmon pink caused by alternative areas with propylitic alteration and sections with Kspar replacement largely confined to the groundmass. Intervals of Kspar flooding contain more pyrite, but in general pyrite content is low in the 1 to 3% range. Mafic minerals are altered to chlorite, magnetite and minor pyrite and epidote. Epidote is also present as replacement of feldspars and along fractures. Pyrite is also present as dry fracture coatings of fine grains. Very widely spaced quartz veins with chalcopyrite are present at wide intervals of a metre or more. These veins are generally at 60 degrees to the CA. There is an intense stockwork of late zeolite / carbonate veins in the first 80 metres of the interval. This corresponds with the crushed and highly fractured nature of the PQD below the fault.</p>										
<p><<Min: 324.3 - 330: 3% pyrite / 5% magnetite / 5% epidote>> Abrupt change in alteration to mix between propylitic and Kspar / potassic. Pyrite amounts rapidly decrease and magnetite as replacement of mafics occurs. Chlorite dominant alteration.</p>										
<p><<Min: 330 - 380: 1.5% pyrite / 3% magnetite / 2% epidote>></p>										
<p><<Min: 380 - 388: 1% pyrite / 3% magnetite / 2% epidote / 0.5% chalcopyrite>> Includes a vein of quartz from 381.6 to 385.1 with both chalcopyrite and enargite.</p>										
<p><<Min: 388 - 570: 1% pyrite / 3% magnetite / 2% epidote>></p>										
<p><<Min: 570 - 600: 1% pyrite / 3% magnetite / 5% epidote>></p>										
<p><<Vein: 324.3 - 600: 0.5% Pyrite / 15% Calcium carbonate/Carbonate / 0.1% Quartz>> Zeolite carbonate veins increase at the fault and continue in abundance to end of the hole. Local sections get to 20 percent and form breccia in fill. Quartz veins are rare and spaced 1 to 2 metres apart and generally cut the core at 60 degrees. Chalcopyr</p>										
<p><<Struc: 324.3 - 326: intense Shear zone 55 deg. >> Mylonite / cataclastic zone. Intense shearing over nearly a metre. Abrupt change from SCP to PRO and from tuff to porphyritic quartz diorite across fault.</p>										
<p><<Struc: 356 - 356.5: strong Breccia 60 deg. >> Fault breccia with matrix filled with zeolite / carbonate</p>										
<p><<Struc: 381.6 - 381.66: intense Vein Sets 60 deg. >> Quartz vein with chalcopyrite</p>										
<p><<Struc: 385.1 - 387.3: intense Vein Sets 50 deg. >> Sheared and broken quartz vein with incorporated wall rock. Abundant chalcopyrite and enargite.</p>										
<p><<Struc: 409 - 411: moderate to strong Breccia 25 deg. >> Fault breccia with zeolite / carbonate matrix filling.</p>										
<p><<Struc: 412 - 413.5: moderate to strong Breccia 25 deg. >> Zeolite / carbonate filling matrix.</p>										
<p><<Struc: 505 - 505.3: moderate to strong Fault Zone 15 deg. >></p>										
<p><<Struc: 518 - 518.4: moderate to strong Fault Zone 20 deg. >></p>										
<p><<Struc: 534 - 535.5: moderate to strong Breccia 35 deg. >></p>										
			327.00	329.00	N253844	0.003	58.4	2.8	0.3	-0.005
			329.00	331.00	N253845	0.006	58.5	2.5	0.4	-0.005
			331.00	333.00	N253846	0.004	59.9	3.4	0.3	-0.005
			333.00	335.00	N253847	0.002	60.4	2.8	0.3	-0.005
			335.00	337.00	N253849	0.002	56.6	2.4	0.3	-0.005
			337.00	339.00	N253850	-0.002	63.9	2.1	0.3	-0.005
			339.00	341.00	N253851	-0.002	65.1	2.2	0.3	-0.005
			341.00	343.00	N253852	-0.002	57.2	2.4	0.2	-0.005
			343.00	345.00	N253853	-0.002	54.5	1.8	0.3	-0.005
			345.00	347.00	N253855	-0.002	63	2	-0.1	-0.005
			347.00	349.00	N253856	-0.002	60.3	2.4	-0.1	-0.005
			349.00	351.00	N253857	-0.002	57.1	2.3	-0.1	-0.005
			351.00	353.00	N253858	0.003	66.6	3	0.7	-0.005
			353.00	355.00	N253859	0.004	56.3	2.9	0.5	-0.005
			355.00	357.00	N253860	0.003	44.1	1.8	0.2	-0.005
			357.00	359.00	N253862	0.003	50.4	2.2	0.2	-0.005
			359.00	361.00	N253863	0.002	57.9	3.1	-0.1	-0.005
			361.00	363.00	N253864	0.004	54.3	2.3	0.7	-0.005
			363.00	365.00	N253865	0.003	47.9	2.8	0.6	-0.005
			365.00	367.00	N253866	0.007	61	3.8	-0.1	-0.005
			365.00	367.00	N253867	-0.002	53.2	3.7	-0.1	-0.005
			367.00	369.00	N253868	-0.002	63.4	4.1	0.1	-0.005

GeoSpark Logger ~ Drill Log

Project:

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Hole Number:

P18-07

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			369.00	371.00	N253869	0.003	50.2	4.1	0.4	-0.005
			371.00	373.00	N253870	-0.002	46.2	3.4	0.1	-0.005
			373.00	375.00	N253871	-0.002	43.6	2.5	-0.1	-0.005
			375.00	377.00	N253872	0.005	48.6	2.6	0.3	-0.005
			375.00	377.00	N253873	0.004	50.5	2.4	0.4	-0.005
			377.00	379.00	N253874	-0.002	51.4	2.9	0.2	-0.005
			379.00	381.00	N253875	-0.002	48.9	3.2	0.3	-0.005
			381.00	383.00	N253876	0.004	45.8	5.3	0.6	-0.005
			383.00	385.00	N253878	0.004	49	4.1	0.8	-0.005
			385.00	387.00	N253879	0.009	1000.9	21.8	2.1	0.008
			387.00	389.00	N253880	-0.002	47.8	3.4	0.5	-0.005
			389.00	391.00	N253881	0.002	54.2	3.3	0.3	-0.005
			391.00	393.00	N253882	0.002	54.3	3	0.1	-0.005
			393.00	395.00	N253884	0.002	61.2	4.5	0.5	-0.005
			395.00	397.00	N253885	-0.002	56.3	3.5	0.2	-0.005
			397.00	399.00	N253886	0.003	65	6.5	0.6	-0.005
			399.00	401.00	N253887	0.002	51.6	3.5	0.2	-0.005
			401.00	403.00	N253888	0.003	50.1	2.9	0.1	-0.005
			403.00	405.00	N253890	-0.002	68.7	3.5	-0.1	0.006
			405.00	407.00	N253891	0.003	63.3	5	0.3	-0.005
			407.00	409.00	N253892	0.004	44.7	3.9	0.3	-0.005
			409.00	411.00	N253893	0.002	52.1	3.1	0.3	-0.005
			411.00	413.00	N253894	0.003	71.5	4.7	0.3	-0.005
			413.00	415.00	N253896	0.003	62.7	4.9	0.2	-0.005
			415.00	417.00	N253897	0.002	58.6	2.7	-0.1	-0.005
			417.00	419.00	N253898	-0.002	57.5	4.2	-0.1	-0.005
			419.00	421.00	N253899	0.003	41.2	4.4	0.2	-0.005
			421.00	423.00	N253900	-0.002	15.7	3.8	0.3	-0.005
			423.00	425.00	N253901	-0.002	30.1	2.6	0.1	-0.005
			423.00	425.00	N253902	-0.002	24.3	4.3	0.1	-0.005
			425.00	427.00	N253903	0.002	13.4	3.5	0.3	-0.005
			427.00	429.00	N253904	0.002	23.2	4.1	0.5	-0.005
			429.00	431.00	N253905	-0.002	48.9	3.1	-0.1	-0.005
			431.00	433.00	N253906	-0.002	51.2	2.8	0.1	-0.005



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Project:

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P18-07

From (m)	To (m)	Rocktype & Description	From (m)	To (m)	Sample	Au1 AA ppm	Cu ICP ppm	Mo ICP ppm	S ICP pct	Re1 ICP ppm
			433.00	435.00	N253907	-0.002	50.1	2.6	0.3	-0.005
			433.00	435.00	N253908	0.002	50.9	2.4	0.2	-0.005
			435.00	437.00	N253909	0.003	14	1.4	1	-0.005
			437.00	439.00	N253910	-0.002	19.1	2	0.5	-0.005
			439.00	441.00	N253911	0.002	17.9	2.5	0.2	-0.005
			441.00	443.00	N253912	-0.002	37.7	2.3	0.7	-0.005
			443.00	445.00	N253913	0.013	42.4	3.9	0.6	-0.005
End of Hole @ 600										

Appendix III
Mineral Tenures

North Island Mining Corp.

Filed Work on December 10, 2018

Status: 10-Dec-18

#	Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
1	229789	EXPO 1013 FR.	259108 (100%)	Mineral	Claim	092L	1983/AUG/22	2019/DEC/11	GOOD	25.0
2	229790	EXPO 1014 FR.	259108 (100%)	Mineral	Claim	092L	1983/AUG/22	2019/DEC/11	GOOD	25.0
3	518531		259108 (100%)	Mineral	Claim	092L	2005/JUL/29	2021/APR/01	GOOD	511.762
4	512085	FILL 1	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.669
5	512087	FILL 2	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.897
6	512089	FILL 4	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.951
7	512091	FILL 5	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.956
8	512092	FILL 6	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	512.075
9	512104	FILL 13	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	430.721
10	512108	FILL 15	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	512.246
11	512109	FILL 16	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	512.216
12	512110	FILL 17	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.954
13	512111	FILL 18	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.845
14	512113	FILL 18	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	512.037
15	512114	FILL 19	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/01	GOOD	511.872
16	377240	APPLE BAY TWO	259108 (100%)	Mineral	Claim	092L	2000/MAY/17	2021/DEC/11	GOOD	500.0
17	394718	APPLE BAY NINETEEN	259108 (100%)	Mineral	Claim	092L	2002/JUL/05	2021/DEC/11	GOOD	500.0
18	398335	APPLE BAY TWENTY	259108 (100%)	Mineral	Claim	092L	2002/NOV/16	2021/DEC/11	GOOD	500.0
19	512096	FILL 10	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2021/DEC/11	GOOD	512.77
20	513758	RED DOG NORTH	259108 (100%)	Mineral	Claim	092L	2005/JUN/01	2021/DEC/11	GOOD	429.609
21	513909		259108 (100%)	Mineral	Claim	092L	2005/JUN/03	2021/DEC/11	GOOD	511.699
22	513927		259108 (100%)	Mineral	Claim	092L	2005/JUN/04	2021/DEC/11	GOOD	409.297
23	513930		259108 (100%)	Mineral	Claim	092L	2005/JUN/04	2021/DEC/11	GOOD	389.316
24	513931		259108 (100%)	Mineral	Claim	092L	2005/JUN/04	2021/DEC/11	GOOD	696.946
25	515276		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	655.547
26	515278		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	655.917
27	515281		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	614.929
28	515282		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	676.187
29	515283		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	553.442
30	515284		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2021/DEC/11	GOOD	902.618
31	515593		259108 (100%)	Mineral	Claim	092L	2005/JUN/30	2021/DEC/11	GOOD	656.144
32	515595		259108 (100%)	Mineral	Claim	092L	2005/JUN/30	2021/DEC/11	GOOD	615.08
33	515596		259108 (100%)	Mineral	Claim	092L	2005/JUN/30	2021/DEC/11	GOOD	451.075
34	516074		259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2021/DEC/11	GOOD	553.632
35	516077		259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2021/DEC/11	GOOD	389.645
36	516081		259108 (100%)	Mineral	Claim	102I	2005/JUL/05	2021/DEC/11	GOOD	491.182
37	516930	NORTH RG	259108 (100%)	Mineral	Claim	092L	2005/JUL/11	2021/DEC/11	GOOD	204.535
38	232310	DON 13 FR.	259108 (100%)	Mineral	Claim	092L	1969/NOV/21	2021/MAR/11	GOOD	25.0
39	512122	FILL 25	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/APR/01	GOOD	245.745
40	512088	FILL 3	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	143.38
41	512093	FILL 7	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	512.204
42	512094	FILL 8	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	512.233
43	512095	FILL 9	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	163.886
44	512102	FILL 11	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	225.594
45	512105	FILL 14	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	328.072
46	512107	FILL 15	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	61.509
47	512115	FILL 20	259108 (100%)	Mineral	Claim	102I	2005/MAY/05	2022/DEC/01	GOOD	368.512
48	512116	FILL 21	259108 (100%)	Mineral	Claim	102I	2005/MAY/05	2022/DEC/01	GOOD	225.109
49	512117	FILL 22	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	122.759
50	512118	FILL 23	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	164.174
51	512120	FILL 24	259108 (100%)	Mineral	Claim	092L	2005/MAY/05	2022/DEC/01	GOOD	245.798
52	229791	EXPO 1015 FR.	259108 (100%)	Mineral	Claim	092L	1983/AUG/22	2022/DEC/11	GOOD	25.0
53	231651	HEP #36	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
54	231667	HEP #54	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
55	231668	HEP #55	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
56	231669	HEP #56	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
57	231671	HEP #58	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
58	231672	HEP #59	259108 (100%)	Mineral	Claim	092L	1966/SEP/20	2022/DEC/11	GOOD	25.0
59	231933	EXPO 190	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0

60	231934	EXPO 191	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
61	231961	EXPO 218	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
62	231963	EXPO 220	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
63	231965	EXPO 222	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
64	231966	EXPO 223	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
65	231968	EXPO 225	259108 (100%)	Mineral	Claim	092L	1967/OCT/10	2022/DEC/11	GOOD	25.0
66	231980	EXPO 227	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
67	231982	EXPO 229	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
68	231984	EXPO 231	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
69	231990	EXPO 237	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
70	231991	EXPO 238	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
71	231995	EXPO 242	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
72	231997	EXPO 244	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
73	232000	EXPO 247	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
74	232001	EXPO 248	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
75	232002	EXPO 249	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
76	232004	EXPO 251	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
77	232005	EXPO 252	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
78	232006	EXPO 253	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
79	232007	EXPO 254	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
80	232008	EXPO 255	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
81	232011	EXPO 258	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
82	232015	EXPO 262	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
83	232017	EXPO 264	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
84	232019	EXPO 266	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
85	232020	EXPO 267	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
86	232021	EXPO 268	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
87	232022	EXPO 269	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
88	232024	EXPO 271	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
89	232025	EXPO 272	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
90	232026	EXPO 273	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
91	232027	EXPO 274	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
92	232028	EXPO 275	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
93	232030	EXPO 278	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
94	232037	EXPO 285	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
95	232041	EXPO 289	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
96	232044	EXPO 292	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
97	232045	EXPO 293	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
98	232046	EXPO 294	259108 (100%)	Mineral	Claim	092L	1967/OCT/19	2022/DEC/11	GOOD	25.0
99	232105	EXPO 312	259108 (100%)	Mineral	Claim	092L	1967/NOV/13	2022/DEC/11	GOOD	25.0
100	232107	EXPO 314	259108 (100%)	Mineral	Claim	092L	1967/NOV/13	2022/DEC/11	GOOD	25.0
101	232220	EXPO 326	259108 (100%)	Mineral	Claim	092L	1967/DEC/18	2022/DEC/11	GOOD	25.0
102	232228	EXPO 504 FR	259108 (100%)	Mineral	Claim	092L	1967/DEC/18	2022/DEC/11	GOOD	25.0
103	232275	EXPO 1008 FR	259108 (100%)	Mineral	Claim	092L	1968/DEC/05	2022/DEC/11	GOOD	25.0
104	232276	EXPO 1011 FR	259108 (100%)	Mineral	Claim	092L	1968/DEC/05	2022/DEC/11	GOOD	25.0
105	232277	EXPO 1012 FR	259108 (100%)	Mineral	Claim	092L	1968/DEC/05	2022/DEC/11	GOOD	25.0
106	232306	DON 9 FR.	259108 (100%)	Mineral	Claim	092L	1969/NOV/21	2022/DEC/11	GOOD	25.0
107	232307	DON 10 FR.	259108 (100%)	Mineral	Claim	092L	1969/NOV/21	2022/DEC/11	GOOD	25.0
108	232308	DON 11 FR.	259108 (100%)	Mineral	Claim	092L	1969/NOV/21	2022/DEC/11	GOOD	25.0
109	232309	DON 12 FR.	259108 (100%)	Mineral	Claim	092L	1969/NOV/21	2022/DEC/11	GOOD	25.0
110	371777	APPLE BAY THREE	259108 (100%)	Mineral	Claim	092L	1999/SEP/18	2022/DEC/11	GOOD	200.0
111	374744	APPLE BAY FOUR	259108 (100%)	Mineral	Claim	092L	2000/MAR/11	2022/DEC/11	GOOD	400.0
112	402033	PLE BAY TWENTY-THR	259108 (100%)	Mineral	Claim	092L	2003/APR/26	2022/DEC/11	GOOD	400.0
113	402037	PLE BAY TWENTY SEV	259108 (100%)	Mineral	Claim	092L	2003/APR/29	2022/DEC/11	GOOD	250.0
114	402513	NORTHWEST 900	259108 (100%)	Mineral	Claim	092L	2003/MAY/27	2022/DEC/11	GOOD	250.0
115	405216	NORTHWEST 901	259108 (100%)	Mineral	Claim	102I	2003/SEP/19	2022/DEC/11	GOOD	25.0
116	501677		259108 (100%)	Mineral	Claim	092L	2005/JAN/12	2022/DEC/11	GOOD	81.854
117	506021	Wanakana Central	259108 (100%)	Mineral	Claim	092L	2005/FEB/06	2022/DEC/11	GOOD	348.306
118	513760	HEP 2.2	259108 (100%)	Mineral	Claim	092L	2005/JUN/01	2022/DEC/11	GOOD	20.464
119	513910		259108 (100%)	Mineral	Claim	092L	2005/JUN/03	2022/DEC/11	GOOD	347.912
120	513911		259108 (100%)	Mineral	Claim	092L	2005/JUN/03	2022/DEC/11	GOOD	61.383
121	513912		259108 (100%)	Mineral	Claim	102I	2005/JUN/03	2022/DEC/11	GOOD	40.921
122	513913		259108 (100%)	Mineral	Claim	102I	2005/JUN/03	2022/DEC/11	GOOD	20.461
123	513914		259108 (100%)	Mineral	Claim	092L	2005/JUN/03	2022/DEC/11	GOOD	81.853

124	513926		259108 (100%)	Mineral	Claim	092L	2005/JUN/04	2022/DEC/11	GOOD	286.505
125	513929		259108 (100%)	Mineral	Claim	092L	2005/JUN/04	2022/DEC/11	GOOD	430.364
126	515275		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2022/DEC/11	GOOD	470.906
127	515277		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2022/DEC/11	GOOD	245.854
128	515279		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2022/DEC/11	GOOD	184.473
129	515280		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2022/DEC/11	GOOD	471.442
130	515285		259108 (100%)	Mineral	Claim	092L	2005/JUN/25	2022/DEC/11	GOOD	102.424
131	515313		259108 (100%)	Mineral	Claim	092L	2005/JUN/26	2022/DEC/11	GOOD	163.85
132	515594		259108 (100%)	Mineral	Claim	092L	2005/JUN/30	2022/DEC/11	GOOD	164.031
133	516075		259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2022/DEC/11	GOOD	102.382
134	516076		259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2022/DEC/11	GOOD	245.871
135	516078		259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2022/DEC/11	GOOD	286.991
136	516079	QUATSE LAKE TOO	259108 (100%)	Mineral	Claim	092L	2005/JUL/05	2022/DEC/11	GOOD	143.488
137	516527		259108 (100%)	Mineral	Claim	092L	2005/JUL/09	2022/DEC/11	GOOD	163.942
138	516529	APPLE BAY 9PLUS	259108 (100%)	Mineral	Claim	092L	2005/JUL/09	2022/DEC/11	GOOD	20.49
139	517055	NEW 402513	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	143.2
140	517076	NEW RD	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	20.462
141	517123	RD NORTHEAST	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	204.601
142	517213	HOLBERG	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	143.523
143	517236	NUMMMIS	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	41.018
144	517541	APPLE BAY TEN	259108 (100%)	Mineral	Claim	092L	2005/JUL/12	2022/DEC/11	GOOD	20.508
145	525702	HUSHAMU NORTHEAS	259108 (100%)	Mineral	Claim	092L	2006/JAN/17	2022/DEC/11	GOOD	307.117
146	512966		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/12	GOOD	61.479
147	512972		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/12	GOOD	81.949
148	513006		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/12	GOOD	20.49
149	513057		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/12	GOOD	40.957
150	513072		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/12	GOOD	81.934
151	513091		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/12	GOOD	61.432
152	513107		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/12	GOOD	40.948
153	512952		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/13	GOOD	81.972
154	512963		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/13	GOOD	81.972
155	512964		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/13	GOOD	81.971
156	512967		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/13	GOOD	61.478
157	512968		259108 (100%)	Mineral	Claim	092L	2005/MAY/18	2022/JAN/13	GOOD	61.471
158	512980		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.933
159	512983		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.948
160	512984		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.969
161	512986		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.96
162	512988		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.961
163	512989		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.48
164	512990		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.964
165	512993		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.969
166	512994		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.957
167	512996		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.957
168	512999		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.973
169	513013		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.967
170	513026		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.486
171	513053		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	61.439
172	513060		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.964
173	513062		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.97
174	513065		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	61.458
175	513066		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.487
176	513067		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.957
177	513068		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.965
178	513071		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.951
179	513075		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	61.443
180	513076		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.961
181	513077		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.48
182	513078		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.934
183	513080		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.487
184	513082		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.957
185	513086		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.479
186	513087		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.953
187	513089		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.953

188	513090		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.957
189	513092		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.95
190	513093		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.896
191	513094		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	81.881
192	513104		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	20.471
193	513108		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	40.962
194	513109		259108 (100%)	Mineral	Claim	092L	2005/MAY/19	2022/JAN/13	GOOD	184.29
195	513172		259108 (100%)	Mineral	Claim	092L	2005/MAY/21	2022/JAN/13	GOOD	40.981
196	1019755		259108 (100%)	Mineral	Claim	092L	2013/MAY/24	2022/OCT/11	GOOD	81.8475
197	231690	RED DOG 11	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2026/MAY/23	GOOD	25.0
198	231691	RED DOG 12	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2026/MAY/23	GOOD	25.0
199	231703	RED DOG 14	259108 (100%)	Mineral	Claim	092L	1967/MAY/23	2026/MAY/23	GOOD	25.0
200	231704	RED DOG FR.	259108 (100%)	Mineral	Claim	092L	1967/MAY/23	2026/MAY/23	GOOD	25.0
201	232212	RED DOG 29 FR	259108 (100%)	Mineral	Claim	092L	1967/DEC/01	2026/MAY/23	GOOD	25.0
202	232271	RED DOG 13 FR.	259108 (100%)	Mineral	Claim	092L	1968/JUN/17	2026/MAY/23	GOOD	25.0
203	231680	RED DOG 1	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2027/MAY/23	GOOD	25.0
204	231681	RED DOG 2	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2027/MAY/23	GOOD	25.0
205	231682	RED DOG 3	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2027/MAY/23	GOOD	25.0
206	231683	RED DOG 4	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2027/MAY/23	GOOD	25.0
207	231684	RED DOG 5	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0
208	231685	RED DOG 6	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0
209	231686	RED DOG 7	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0
210	231687	RED DOG 8	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0
211	231688	RED DOG 9	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0
212	231689	RED DOG 10	259108 (100%)	Mineral	Claim	092L	1966/DEC/13	2028/MAY/23	GOOD	25.0

Appendix IV
Claim Map

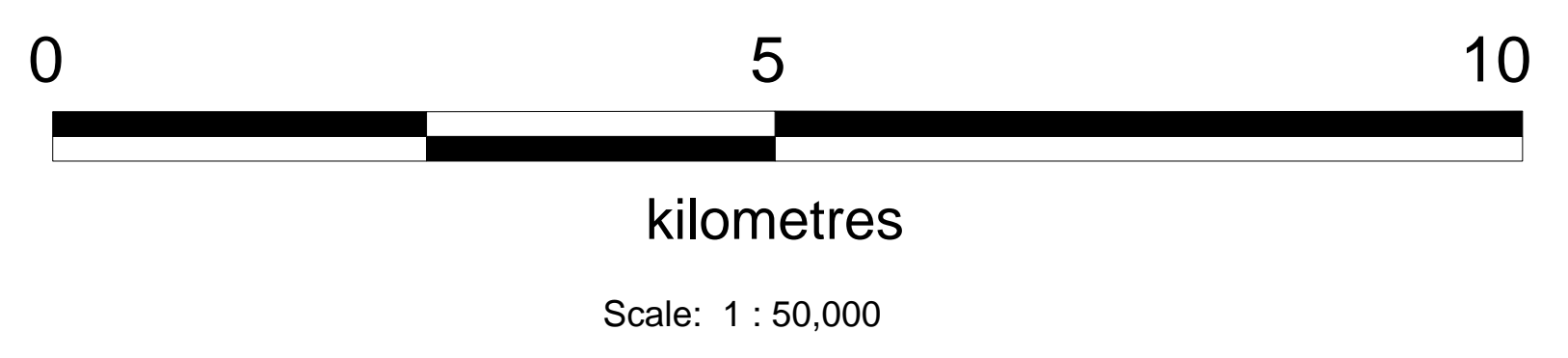
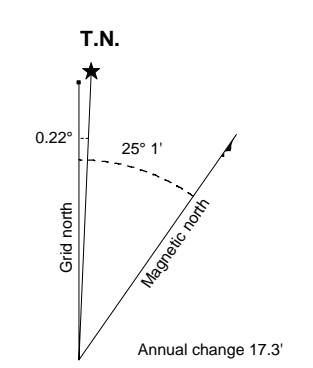
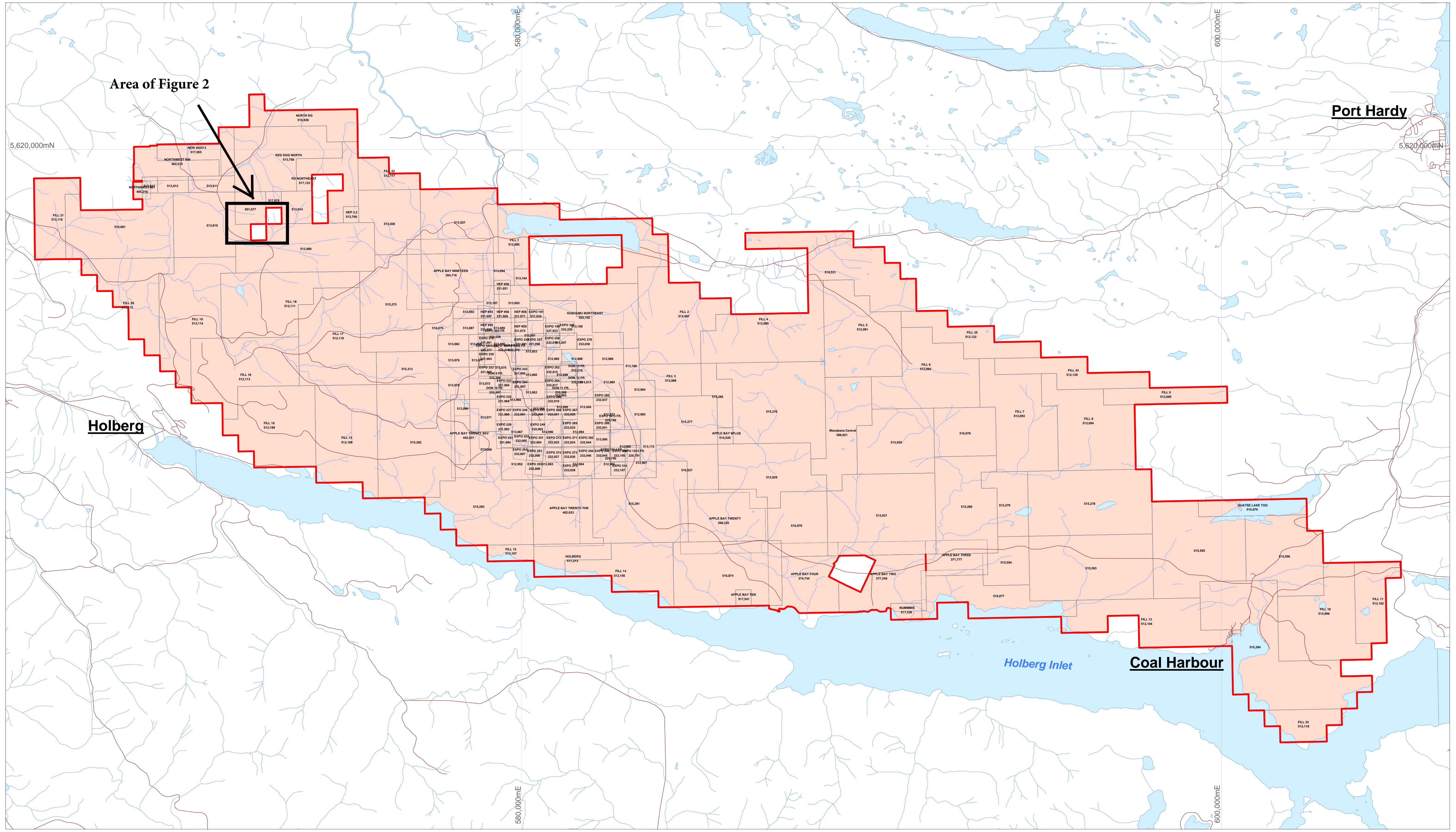


Figure 2a

Northisle Copper and Gold Inc.
Island Copper Project
ISLAND COPPER WEST BLOCK CLAIM MAP
DATE: February 2012

Appendix V
Assay Certificates



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: November 02, 2018

Report Date: November 28, 2018

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CERTIFICATE OF ANALYSIS

VAN18003095.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 110

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	103	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	7	Sort, label and box pulps			VAN
FA350-Au	110	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	110	Environmental disposal charge-Fire assay lead waste			VAN
MA200	110	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 28, 2018

Page: 2 of 5

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18003095.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256651	Drill Core	7.79	3	35.8	130.1	16.5	4	<0.1	16.5	26.2	15	5.91	22	2.0	4.7	1031	<0.1	1.5	1.1	284	0.08
N256652	Drill Core	7.27	4	19.0	119.4	13.4	3	<0.1	9.5	15.0	22	7.83	37	1.3	3.1	687	<0.1	0.5	1.2	167	0.04
N256653	Drill Core	8.22	3	7.4	112.5	18.6	10	0.1	15.4	24.0	18	5.92	23	1.4	4.0	1237	0.2	1.1	1.4	151	0.05
N256654	Drill Core	8.25	4	4.9	138.7	21.6	13	<0.1	20.7	29.9	19	9.40	30	1.5	4.4	1267	0.3	1.8	2.6	170	0.05
N256655	Drill Core	8.61	5	3.2	125.3	16.2	20	<0.1	18.5	26.1	31	12.95	38	1.4	4.1	1135	0.1	2.2	5.3	253	0.07
N256656	Rock	1.53	<2	<0.1	0.8	0.5	3	<0.1	<0.1	0.6	119	0.11	<1	<0.1	<0.1	86	<0.1	<0.1	<0.1	<1	32.45
N256657	Drill Core	7.68	4	4.6	120.6	13.7	16	<0.1	18.3	27.4	33	8.41	21	1.5	4.2	994	<0.1	1.8	2.4	321	0.11
N256658	Drill Core	7.96	4	2.9	124.6	12.9	12	<0.1	12.7	19.4	21	8.24	20	1.3	3.7	986	<0.1	1.6	3.0	304	0.12
N256659	Drill Core	7.61	4	4.0	110.8	16.2	10	0.1	10.1	14.5	23	7.51	23	1.1	4.4	1433	<0.1	0.8	2.4	230	0.09
N256660	Drill Core	6.63	5	4.7	53.2	18.9	4	0.1	0.6	0.7	5	7.10	29	0.8	4.8	1728	<0.1	1.0	3.1	222	0.10
N256661	Drill Core	6.88	4	4.1	76.6	14.8	11	0.1	6.2	10.7	15	6.64	22	1.2	4.2	1459	<0.1	0.6	2.8	203	0.09
N256662	Drill Core	3.09	8	5.8	52.4	21.2	4	0.2	2.9	3.3	9	5.75	23	1.2	5.7	2001	<0.1	0.9	6.0	161	0.14
N256664	Drill Core	7.61	6	3.9	90.2	15.8	8	<0.1	31.7	23.6	20	5.41	28	1.3	3.4	941	<0.1	0.8	5.1	231	0.06
N256665	Drill Core	8.47	5	4.8	110.9	11.3	8	<0.1	24.3	24.2	35	5.79	24	2.0	4.3	743	<0.1	0.8	3.4	318	0.07
N256666	Drill Core	8.60	7	6.2	121.3	15.5	6	0.1	15.0	19.9	20	6.31	16	1.8	4.0	683	<0.1	0.9	3.7	225	0.07
N256667	Drill Core	7.72	9	10.3	113.3	27.7	5	0.1	10.0	12.3	16	5.68	17	1.1	3.2	944	0.2	0.4	3.8	105	0.06
N256668	Drill Core	5.53	7	10.3	35.7	7.9	4	0.2	0.8	0.8	23	1.94	7	0.5	1.0	226	<0.1	0.3	1.7	41	0.02
N256669	Rock Pulp	0.06	194	394.3	1945.7	27.3	58	12.7	14.0	9.4	754	3.60	15	0.9	1.9	430	0.6	37.4	2.0	85	2.69
N256670	Drill Core	6.99	11	7.8	77.4	39.2	3	0.2	4.1	5.3	7	3.71	34	1.2	3.6	1003	0.1	1.1	2.0	141	0.08
N256671	Drill Core	7.71	12	3.4	216.8	32.6	2	0.2	12.7	12.7	6	5.15	22	1.8	5.0	1188	<0.1	0.8	3.4	239	0.11
N256672	Drill Core	8.54	9	3.7	132.8	16.2	8	<0.1	18.8	24.8	4	3.68	23	2.6	5.2	675	<0.1	1.2	3.6	402	0.09
N256673	Drill Core	6.95	10	1.4	87.8	22.0	5	0.1	11.5	15.3	6	3.18	32	2.8	6.3	847	0.1	1.2	2.8	354	0.10
N256674	Drill Core	8.41	14	4.6	126.7	20.7	5	0.1	13.1	18.5	8	4.71	39	2.3	6.1	784	0.2	0.9	2.1	353	0.08
N256675	Rock	1.90	2	<0.1	1.5	0.6	3	<0.1	0.3	0.4	130	0.11	2	0.2	<0.1	82	0.1	<0.1	<0.1	1	31.20
N256676	Drill Core	7.62	7	6.2	191.2	17.2	7	<0.1	14.4	21.1	28	6.77	26	1.9	4.4	525	0.2	0.5	2.6	211	0.07
N256677	Drill Core	7.70	9	5.4	213.8	21.5	9	0.2	13.8	21.3	49	8.21	21	1.9	4.5	638	<0.1	0.3	4.2	216	0.07
N256678	Drill Core	8.13	7	5.4	169.4	35.0	12	0.1	15.6	19.6	13	7.18	17	2.2	5.0	562	0.2	0.6	2.9	272	0.06
N256679	Drill Core	8.09	7	6.5	149.4	20.2	72	0.2	14.6	23.1	24	8.30	24	1.7	3.8	664	0.6	0.7	2.9	254	0.06
N256680	Drill Core	7.73	4	6.9	86.0	12.6	39	0.1	14.6	24.5	26	6.34	22	1.6	3.4	704	0.3	0.6	3.2	220	0.06
N256681	Rock Pulp	0.06	593	349.3	4018.9	28.1	108	15.3	23.8	66.4	1461	4.82	2086	2.5	1.6	503	0.9	47.3	15.3	61	5.90



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 28, 2018

Page: 2 of 5

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18003095.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
MDL		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256651	Drill Core	0.107	18.6	26	<0.01	18	0.488	9.02	0.015	0.02	0.6	86.3	40	4.6	7.5	6.0	0.4	<1	15	6.6	6.2
N256652	Drill Core	0.059	13.2	22	<0.01	13	0.338	5.19	0.010	0.01	0.6	60.9	31	3.6	5.7	4.0	0.3	<1	9	4.2	3.6
N256653	Drill Core	0.102	16.9	23	<0.01	18	0.393	7.70	0.013	0.01	0.8	64.3	36	4.9	6.2	4.7	0.3	<1	11	6.4	5.9
N256654	Drill Core	0.115	17.7	21	<0.01	14	0.486	7.32	0.010	0.01	0.4	62.6	38	6.4	5.6	5.6	0.4	<1	9	4.4	>10
N256655	Drill Core	0.107	14.5	30	<0.01	60	0.475	6.41	0.013	0.02	0.4	51.1	31	7.5	4.8	5.9	0.4	<1	11	3.9	>10
N256656	Rock	0.006	1.3	<1	1.72	15	0.006	0.08	0.021	0.02	<0.1	1.3	1	<0.1	2.1	0.2	<0.1	<1	<1	0.8	<0.1
N256657	Drill Core	0.118	14.8	31	<0.01	11	0.533	8.94	0.014	0.02	0.4	61.3	33	6.0	5.1	7.3	0.5	<1	13	4.6	9.3
N256658	Drill Core	0.108	13.2	26	<0.01	12	0.492	9.31	0.015	0.02	0.4	57.0	29	2.7	5.4	5.9	0.5	<1	12	5.1	8.5
N256659	Drill Core	0.121	16.9	22	<0.01	17	0.354	7.45	0.014	0.02	0.3	53.9	37	2.0	4.4	4.5	0.3	<1	10	5.1	6.3
N256660	Drill Core	0.129	18.2	13	<0.01	166	0.172	5.05	0.013	0.02	0.1	41.3	36	1.4	2.7	2.0	0.2	<1	8	3.3	0.4
N256661	Drill Core	0.117	16.0	23	<0.01	34	0.266	7.36	0.015	0.02	0.2	49.2	35	2.2	3.5	3.1	0.2	<1	9	4.0	3.9
N256662	Drill Core	0.167	20.9	17	<0.01	47	0.298	4.37	0.019	0.03	0.2	62.1	46	2.5	4.2	3.5	0.3	<1	10	2.2	1.5
N256664	Drill Core	0.086	11.7	89	<0.01	24	0.498	8.13	0.013	<0.01	0.3	50.8	27	3.6	3.8	5.9	0.4	<1	9	4.0	5.3
N256665	Drill Core	0.080	13.6	64	<0.01	25	0.457	8.99	0.013	<0.01	0.4	66.6	30	7.5	4.4	5.9	0.4	<1	8	3.6	6.3
N256666	Drill Core	0.092	14.0	22	<0.01	15	0.344	6.90	0.012	<0.01	0.5	73.2	30	6.8	4.8	4.5	0.3	<1	9	3.3	6.6
N256667	Drill Core	0.073	12.1	15	<0.01	18	0.168	4.91	0.011	0.02	0.4	57.5	27	3.7	2.9	2.1	0.2	<1	5	2.3	4.9
N256668	Drill Core	0.016	2.2	9	0.01	426	0.209	1.09	0.007	0.02	0.5	32.5	4	2.9	1.1	2.2	0.1	<1	1	0.4	0.2
N256669	Rock Pulp	0.055	7.2	17	0.86	742	0.198	6.60	2.237	1.66	2.0	9.4	18	2.9	10.0	2.4	0.2	1	8	8.4	0.3
N256670	Drill Core	0.096	15.0	17	<0.01	75	0.200	5.14	0.015	0.02	0.2	78.0	31	4.8	3.0	2.4	0.2	<1	6	2.8	0.9
N256671	Drill Core	0.137	14.9	20	<0.01	24	0.314	7.69	0.016	0.02	0.5	93.7	32	3.5	4.2	3.9	0.3	<1	9	3.3	4.5
N256672	Drill Core	0.118	15.4	30	<0.01	37	0.536	10.48	0.013	0.01	0.4	92.1	37	4.9	4.8	7.1	0.5	<1	12	2.0	4.1
N256673	Drill Core	0.160	15.8	30	<0.01	105	0.361	11.69	0.050	0.04	0.5	95.5	36	4.4	6.6	4.4	0.3	<1	18	2.0	1.9
N256674	Drill Core	0.134	17.2	29	<0.01	36	0.271	11.77	0.053	0.03	0.5	91.1	39	5.2	4.7	3.8	0.3	<1	14	1.5	4.8
N256675	Rock	0.009	1.3	<1	2.22	20	0.005	0.20	0.071	0.07	<0.1	2.7	1	0.1	2.1	0.3	<0.1	<1	<1	1.0	<0.1
N256676	Drill Core	0.081	13.3	20	<0.01	11	0.315	8.01	0.012	0.02	0.3	79.3	31	2.7	4.9	4.9	0.3	<1	9	1.3	7.5
N256677	Drill Core	0.078	13.9	14	<0.01	10	0.317	7.48	0.012	0.02	0.3	86.4	31	2.7	4.4	5.0	0.3	<1	9	1.7	9.3
N256678	Drill Core	0.086	16.2	16	<0.01	10	0.342	8.68	0.011	0.02	0.3	94.1	38	3.9	5.7	4.7	0.3	<1	12	2.0	8.2
N256679	Drill Core	0.088	13.8	16	<0.01	16	0.499	9.25	0.008	<0.01	0.5	75.0	32	2.1	13.9	6.8	0.5	<1	22	2.3	9.5
N256680	Drill Core	0.079	12.9	14	<0.01	13	0.435	8.78	0.009	<0.01	0.4	76.3	31	3.5	13.9	5.8	0.4	<1	21	3.1	7.1
N256681	Rock Pulp	0.070	15.3	28	0.78	202	0.139	6.00	1.775	1.69	4.6	21.2	24	3.2	8.7	1.7	0.1	<1	5	13.8	0.6



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Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN18003095.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256651	Drill Core	0.2	2.1	0.07	1.344	15	2.1	3.2
N256652	Drill Core	0.6	1.9	0.17	0.192	11	1.3	1.6
N256653	Drill Core	0.4	1.8	0.16	0.101	16	2.3	3.4
N256654	Drill Core	0.5	1.8	0.19	0.029	26	3.0	7.4
N256655	Drill Core	0.4	1.5	0.17	0.044	26	4.0	8.2
N256656	Rock	0.8	<0.1	<0.05	<0.005	<1	3.1	<0.5
N256657	Drill Core	0.3	1.7	0.07	0.040	10	3.0	3.3
N256658	Drill Core	0.3	1.6	0.09	0.041	12	2.6	2.2
N256659	Drill Core	0.3	1.6	0.05	0.034	15	3.3	2.5
N256660	Drill Core	0.3	1.0	<0.05	0.006	17	4.7	2.1
N256661	Drill Core	0.2	1.4	<0.05	0.038	15	3.3	1.6
N256662	Drill Core	0.3	1.6	<0.05	0.009	17	4.1	2.3
N256664	Drill Core	0.3	1.6	<0.05	0.060	22	3.7	2.4
N256665	Drill Core	0.2	1.8	0.09	0.105	18	1.9	1.7
N256666	Drill Core	0.4	2.2	0.12	0.126	15	1.3	1.5
N256667	Drill Core	0.4	1.6	0.06	0.072	13	1.0	1.1
N256668	Drill Core	0.6	0.9	<0.05	0.023	8	0.6	<0.5
N256669	Rock Pulp	28.3	0.5	0.06	0.429	<1	0.7	<0.5
N256670	Drill Core	0.2	2.0	<0.05	0.012	20	1.4	0.7
N256671	Drill Core	0.3	2.6	0.05	0.029	17	0.6	0.9
N256672	Drill Core	0.2	2.8	0.06	0.023	14	0.8	1.1
N256673	Drill Core	0.2	2.8	0.05	0.036	8	<0.5	<0.5
N256674	Drill Core	0.3	2.4	0.10	0.165	14	0.5	0.8
N256675	Rock	2.0	<0.1	<0.05	<0.005	<1	1.1	<0.5
N256676	Drill Core	0.3	2.3	0.10	0.138	16	1.1	0.9
N256677	Drill Core	0.3	2.4	0.13	0.071	17	1.3	1.1
N256678	Drill Core	0.4	2.9	0.22	0.046	34	0.9	1.6
N256679	Drill Core	0.3	2.4	0.34	0.162	16	1.3	1.9
N256680	Drill Core	0.2	2.3	0.17	0.163	15	0.8	0.8
N256681	Rock Pulp	37.3	0.7	0.20	0.435	3	2.8	<0.5



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Project: Pemberton

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Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
N256682	Drill Core	8.29	7	16.0	142.3	30.2	6	0.1	17.5	22.3	11	8.19	22	1.8	4.3	606	0.2	0.8	2.7	213	0.07
N256683	Drill Core	7.51	8	16.7	101.1	37.1	3	0.1	23.6	23.0	21	6.01	9	0.9	3.1	640	<0.1	0.5	2.0	78	0.06
N256684	Drill Core	8.79	6	8.4	127.7	26.9	4	0.1	14.1	19.9	11	7.08	13	1.7	4.4	707	0.2	0.5	0.9	234	0.08
N256685	Drill Core	3.61	7	21.1	187.6	33.0	8	<0.1	15.6	22.1	11	6.62	27	2.0	4.8	877	<0.1	0.6	0.7	240	0.08
N256687	Drill Core	7.94	6	6.9	152.9	23.0	8	<0.1	13.5	20.8	16	6.90	20	2.6	5.6	650	0.2	0.6	0.7	213	0.10
N256688	Drill Core	7.44	8	20.6	107.0	20.1	4	<0.1	14.7	21.7	10	7.24	17	1.9	5.4	854	0.1	0.9	1.2	229	0.11
N256689	Drill Core	6.99	13	26.8	88.2	29.2	5	0.1	13.3	17.4	17	5.37	14	1.1	3.0	558	0.2	1.0	2.7	90	0.05
N256690	Drill Core	6.98	15	19.9	85.4	4.7	3	<0.1	12.4	16.0	20	3.04	5	0.4	0.4	18	<0.1	0.4	1.4	8	<0.01
N256691	Drill Core	7.11	13	23.6	100.8	30.1	2	<0.1	15.9	21.9	10	2.68	6	0.7	1.4	478	0.2	0.7	1.1	59	0.03
N256692	Drill Core	6.30	13	21.8	105.7	32.5	9	<0.1	16.0	15.3	141	3.61	4	0.7	1.9	518	<0.1	0.6	1.9	74	0.32
N256693	Drill Core	4.00	19	34.0	65.3	15.3	1	<0.1	15.9	14.7	10	3.20	2	0.4	0.9	219	<0.1	0.7	1.8	25	0.03
N256695	Drill Core	7.52	40	16.9	139.8	32.5	4	<0.1	22.4	29.0	10	7.85	5	0.8	2.9	808	<0.1	2.1	4.7	55	0.04
N256696	Drill Core	6.69	28	19.7	86.3	12.2	3	<0.1	10.0	17.0	15	3.07	3	0.5	0.7	140	<0.1	0.4	1.8	18	0.02
N256697	Drill Core	6.43	10	19.6	50.2	13.1	4	<0.1	4.2	7.4	19	1.91	1	0.3	0.5	156	0.2	0.2	0.9	24	0.02
N256698	Drill Core	7.08	17	23.1	77.0	19.5	2	<0.1	15.6	24.9	11	4.08	13	0.7	1.0	357	<0.1	0.5	1.1	53	0.03
N256699	Drill Core	6.84	18	29.9	90.1	15.0	9	<0.1	12.2	18.6	14	3.85	14	0.6	1.0	314	0.3	0.7	1.1	46	0.03
N256700	Drill Core	6.57	14	26.8	122.0	16.5	4	<0.1	15.0	20.7	15	4.83	4	0.6	1.1	253	<0.1	0.6	1.1	30	0.02
N255151	Drill Core	6.23	12	16.8	120.1	18.4	6	<0.1	16.7	22.6	23	4.60	4	0.9	1.6	195	0.1	0.6	1.1	32	0.01
N255152	Drill Core	6.07	12	13.7	147.1	15.2	3	<0.1	9.3	15.5	18	4.64	6	0.6	1.0	81	<0.1	0.6	1.4	26	0.01
N255153	Drill Core	6.92	16	15.1	102.5	10.4	4	<0.1	10.9	17.2	24	2.76	4	0.7	1.1	105	<0.1	0.9	2.2	20	<0.01
N255154	Drill Core	6.65	12	7.4	72.0	10.3	3	<0.1	5.0	4.8	16	1.67	4	0.6	0.8	29	<0.1	0.7	3.2	20	0.01
N255155	Rock Pulp	0.06	217	392.2	1841.7	26.6	57	12.9	15.2	9.7	743	3.52	14	1.1	2.0	428	0.1	35.5	2.5	83	2.74
N255156	Drill Core	6.59	16	14.0	79.4	8.8	5	<0.1	7.7	12.9	34	2.46	7	0.5	0.6	18	<0.1	0.5	1.4	17	<0.01
N255157	Rock	2.06	2	0.1	2.5	0.6	3	<0.1	0.2	0.8	139	0.11	2	0.1	<0.1	94	<0.1	<0.1	<0.1	2	31.81
N255158	Drill Core	6.93	12	26.5	123.4	28.9	5	<0.1	15.2	21.0	14	5.64	5	1.5	4.1	208	<0.1	0.8	1.2	126	0.05
N255159	Drill Core	6.90	15	22.5	60.9	21.6	4	<0.1	12.9	18.7	19	3.55	6	1.0	2.1	89	<0.1	0.5	2.9	35	0.09
N255160	Drill Core	7.97	10	36.6	66.4	14.6	4	<0.1	14.4	24.6	20	4.84	5	0.9	1.6	115	0.2	0.4	2.8	37	1.57
N255161	Rock Pulp	0.06	556	343.4	3914.2	27.1	108	15.3	25.8	70.8	1445	4.65	1918	2.4	1.4	472	0.6	41.7	14.3	58	5.51
N255162	Drill Core	7.54	8	10.0	114.4	27.5	4	<0.1	32.2	29.5	17	7.66	12	1.7	6.2	309	0.3	0.7	2.1	177	0.65
N255163	Drill Core	8.67	9	21.0	110.3	22.0	4	<0.1	27.9	31.8	13	5.09	6	1.7	3.5	235	0.3	0.4	3.4	123	1.28



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256682	Drill Core	0.084	16.2	17	<0.01	20	0.235	8.90	0.012	0.01	0.3	70.3	38	4.8	6.3	3.3	0.2	<1	9	4.2	9.2
N256683	Drill Core	0.071	11.4	13	<0.01	12	0.186	4.25	0.012	0.01	0.3	57.5	27	3.3	3.2	2.5	0.2	<1	4	4.0	6.7
N256684	Drill Core	0.105	12.9	17	<0.01	11	0.373	9.15	0.013	0.01	0.4	56.8	32	4.8	3.2	5.7	0.4	<1	6	3.8	8.0
N256685	Drill Core	0.105	16.0	23	<0.01	22	0.451	10.22	0.013	0.02	0.7	72.7	36	6.1	4.9	6.8	0.4	<1	10	3.9	7.3
N256687	Drill Core	0.089	16.8	21	<0.01	27	0.426	8.83	0.013	0.02	0.6	75.6	36	5.0	6.9	6.6	0.4	<1	11	4.3	7.2
N256688	Drill Core	0.121	17.1	19	<0.01	17	0.260	9.85	0.016	0.02	0.4	62.3	44	3.3	6.5	3.9	0.3	<1	7	5.9	8.4
N256689	Drill Core	0.056	12.1	10	<0.01	18	0.144	4.85	0.017	<0.01	0.3	52.1	26	3.1	4.4	1.7	0.2	<1	5	10.7	5.9
N256690	Drill Core	0.003	0.3	8	<0.01	14	0.124	0.19	0.004	<0.01	0.3	31.8	<1	2.7	0.9	1.3	<0.1	<1	1	0.3	3.4
N256691	Drill Core	0.039	5.7	17	<0.01	17	0.205	3.19	0.010	<0.01	0.4	45.6	11	4.3	1.9	2.2	0.2	<1	3	7.1	3.0
N256692	Drill Core	0.060	10.1	16	0.12	22	0.195	5.05	0.707	0.30	0.5	38.7	22	4.0	4.2	2.7	0.2	<1	4	11.7	3.4
N256693	Drill Core	0.027	4.9	9	<0.01	13	0.180	1.41	0.006	<0.01	0.5	26.7	11	2.7	1.0	1.7	0.1	<1	2	3.8	3.5
N256695	Drill Core	0.071	15.2	9	<0.01	15	0.174	4.02	0.013	<0.01	0.5	54.1	33	3.6	1.9	1.5	0.1	<1	4	11.4	8.8
N256696	Drill Core	0.019	5.4	11	<0.01	14	0.233	0.63	0.004	<0.01	0.5	33.7	10	2.8	1.1	2.0	0.1	<1	<1	0.8	3.2
N256697	Drill Core	0.022	3.7	8	<0.01	21	0.233	1.25	0.006	<0.01	0.7	22.3	7	3.1	0.8	2.2	0.2	<1	1	2.7	2.1
N256698	Drill Core	0.062	8.4	13	<0.01	33	0.204	3.31	0.013	<0.01	0.6	40.8	19	2.7	1.8	2.0	0.2	<1	3	13.6	4.5
N256699	Drill Core	0.052	7.7	12	<0.01	13	0.258	2.57	0.011	<0.01	1.0	44.9	17	3.6	1.5	2.9	0.3	<1	2	10.4	4.0
N256700	Drill Core	0.049	8.4	9	<0.01	10	0.202	1.51	0.008	<0.01	0.5	40.9	17	3.8	1.3	2.1	0.2	<1	2	5.8	5.6
N255151	Drill Core	0.053	12.5	12	<0.01	13	0.208	1.59	0.009	<0.01	0.4	68.0	24	5.0	2.0	2.2	0.2	<1	4	6.9	3.9
N255152	Drill Core	0.019	6.2	9	<0.01	10	0.154	1.44	0.010	<0.01	0.5	43.8	14	4.5	1.5	1.6	0.1	<1	3	7.0	4.7
N255153	Drill Core	0.011	2.7	7	<0.01	19	0.250	0.90	0.010	<0.01	0.5	51.5	5	3.2	1.4	2.7	0.2	<1	2	3.0	2.8
N255154	Drill Core	0.005	2.5	7	<0.01	39	0.228	0.91	0.011	<0.01	0.2	48.7	5	1.8	1.4	2.3	0.2	<1	2	2.4	1.8
N255155	Rock Pulp	0.045	7.0	17	0.82	755	0.208	6.27	2.108	1.44	1.5	10.0	16	2.9	9.9	2.5	0.2	1	8	8.3	0.3
N255156	Drill Core	0.007	1.6	6	<0.01	16	0.185	0.70	0.009	<0.01	0.4	35.4	3	1.9	1.1	2.2	0.1	<1	1	3.2	2.5
N255157	Rock	0.009	1.4	<1	1.72	28	0.007	0.05	0.019	0.01	<0.1	1.5	1	0.1	2.3	0.2	<0.1	<1	<1	0.6	<0.1
N255158	Drill Core	0.061	14.4	15	<0.01	12	0.356	8.06	0.023	0.03	0.6	87.5	31	3.3	4.9	5.0	0.4	<1	7	20.4	6.4
N255159	Drill Core	0.033	6.5	10	<0.01	12	0.305	2.16	0.015	0.01	0.6	69.3	13	1.8	2.6	4.0	0.3	<1	3	8.9	3.9
N255160	Drill Core	0.036	5.4	13	<0.01	13	0.238	3.17	0.012	0.01	0.6	54.3	10	4.9	3.9	2.9	0.2	<1	3	9.3	5.5
N255161	Rock Pulp	0.053	15.6	30	0.73	210	0.149	5.87	1.671	1.61	4.0	21.2	22	2.6	9.0	1.6	<0.1	<1	6	11.8	0.6
N255162	Drill Core	0.121	18.1	30	0.01	20	0.226	10.61	0.020	0.01	0.3	80.9	38	13.1	4.9	2.5	0.2	<1	7	24.7	9.0
N255163	Drill Core	0.062	13.4	33	<0.01	19	0.283	7.50	0.018	0.01	0.6	98.9	27	15.5	6.5	3.6	0.3	<1	5	18.6	5.8



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256682	Drill Core	0.2	2.1	0.22	0.333	24	1.1	0.5
N256683	Drill Core	0.2	1.6	0.05	0.100	11	0.9	1.2
N256684	Drill Core	0.2	1.7	0.09	0.170	13	1.1	<0.5
N256685	Drill Core	0.2	2.3	0.10	0.139	9	2.2	<0.5
N256687	Drill Core	0.3	2.6	0.10	0.044	5	1.2	<0.5
N256688	Drill Core	0.1	1.9	0.10	0.222	10	0.6	<0.5
N256689	Drill Core	0.4	1.8	0.09	0.070	9	<0.5	<0.5
N256690	Drill Core	0.6	0.9	<0.05	0.202	5	<0.5	<0.5
N256691	Drill Core	0.5	1.4	<0.05	0.747	3	<0.5	<0.5
N256692	Drill Core	6.6	1.4	0.11	0.630	12	<0.5	<0.5
N256693	Drill Core	0.2	0.8	<0.05	0.252	9	<0.5	<0.5
N256695	Drill Core	0.2	1.7	<0.05	0.172	14	1.5	0.9
N256696	Drill Core	0.3	1.0	<0.05	0.087	13	0.6	<0.5
N256697	Drill Core	0.1	0.7	<0.05	0.054	7	<0.5	<0.5
N256698	Drill Core	0.2	1.3	<0.05	0.086	6	<0.5	<0.5
N256699	Drill Core	0.2	1.2	0.06	0.071	7	<0.5	<0.5
N256700	Drill Core	0.1	1.2	0.13	0.104	1	<0.5	<0.5
N255151	Drill Core	0.2	1.7	<0.05	0.047	9	<0.5	<0.5
N255152	Drill Core	0.1	1.4	<0.05	0.043	16	<0.5	<0.5
N255153	Drill Core	0.2	1.8	<0.05	0.092	7	<0.5	<0.5
N255154	Drill Core	0.4	1.4	<0.05	0.043	3	<0.5	<0.5
N255155	Rock Pulp	23.5	0.5	<0.05	0.419	<1	1.2	<0.5
N255156	Drill Core	0.3	1.0	<0.05	0.042	4	<0.5	<0.5
N255157	Rock	0.4	<0.1	<0.05	<0.005	<1	3.1	<0.5
N255158	Drill Core	0.4	2.5	<0.05	0.034	6	0.9	<0.5
N255159	Drill Core	0.4	1.8	<0.05	0.028	1	0.6	<0.5
N255160	Drill Core	0.5	1.5	<0.05	0.847	12	0.8	<0.5
N255161	Rock Pulp	36.7	0.7	0.11	0.375	4	3.2	<0.5
N255162	Drill Core	0.3	2.3	0.21	0.057	23	0.8	<0.5
N255163	Drill Core	0.4	2.9	0.22	0.431	22	0.9	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255164	Drill Core	7.77	6	19.5	93.8	15.8	7	<0.1	20.3	24.9	19	4.85	3	1.6	2.9	158	<0.1	0.3	3.7	116	0.79
N255165	Drill Core	7.77	8	7.6	104.1	35.9	24	<0.1	20.3	25.0	60	6.15	15	1.7	3.1	132	0.4	0.6	3.2	151	0.78
N255166	Drill Core	8.35	4	6.7	86.8	32.4	132	<0.1	8.1	24.4	892	5.98	8	1.8	4.0	86	0.9	0.6	0.3	173	2.44
N255167	Drill Core	1.94	<2	<0.1	2.1	0.5	4	<0.1	0.8	0.6	123	0.11	5	0.1	<0.1	85	<0.1	<0.1	<0.1	2	33.00
N255168	Drill Core	7.25	3	3.7	80.0	18.8	106	<0.1	7.0	23.5	1330	5.04	3	1.5	3.8	162	0.3	0.5	<0.1	164	4.73
N255169	Drill Core	7.74	3	4.4	77.4	26.6	86	<0.1	7.4	22.4	952	5.99	3	1.6	3.9	90	0.1	0.6	<0.1	173	2.71
N255170	Drill Core	7.10	6	20.0	118.7	25.8	57	<0.1	14.5	27.5	263	6.81	3	1.9	3.2	76	0.6	0.5	<0.1	189	0.88
N255171	Drill Core	8.22	6	30.4	109.4	23.0	71	<0.1	10.2	25.3	442	5.86	2	1.8	3.2	77	0.7	0.4	<0.1	185	1.01
N255172	Drill Core	4.21	11	66.5	140.3	13.9	25	<0.1	14.1	22.7	781	3.97	5	1.2	3.0	98	0.1	0.2	0.1	105	3.47
N255174	Drill Core	7.31	12	25.6	130.6	18.8	20	<0.1	23.1	36.9	102	4.05	4	1.7	5.1	119	0.1	0.4	<0.1	207	1.23
N255175	Drill Core	6.86	9	186.2	98.4	11.3	17	<0.1	14.8	19.8	92	3.10	<1	1.0	2.6	123	0.2	0.2	<0.1	126	1.30
N255176	Drill Core	7.58	9	58.1	175.3	6.1	22	<0.1	9.2	16.5	128	4.35	4	1.7	3.5	111	0.2	0.2	<0.1	140	2.47
N255177	Drill Core	7.71	7	20.8	145.3	11.3	28	<0.1	16.9	28.2	207	4.42	5	2.1	4.6	96	0.1	0.2	<0.1	200	1.80
N255178	Drill Core	7.30	10	23.0	367.7	16.8	40	0.1	15.9	27.9	168	5.44	4	1.8	4.1	74	0.4	0.4	0.2	149	2.10
N255179	Drill Core	7.78	9	7.4	137.4	29.2	52	<0.1	17.0	27.9	199	5.89	3	2.3	4.5	93	0.6	0.4	0.2	191	1.33
N255180	Rock Pulp	0.06	196	386.6	1939.1	26.4	57	13.1	14.7	9.8	808	3.61	11	0.9	2.0	442	0.4	34.7	2.0	84	2.67
N255181	Drill Core	7.56	11	13.6	108.2	25.2	61	<0.1	15.3	25.0	228	6.16	7	1.9	3.3	82	0.3	0.6	0.5	208	0.90
N255182	Drill Core	7.79	12	35.4	78.5	14.7	74	<0.1	15.7	32.1	228	6.10	10	2.0	2.8	88	0.2	0.4	1.6	177	0.99
N255183	Drill Core	7.75	8	7.6	95.7	7.2	73	<0.1	10.2	19.5	273	3.70	9	1.3	2.9	85	0.1	0.3	0.4	138	0.80
N255184	Drill Core	8.02	12	4.3	126.1	9.6	65	<0.1	12.1	23.2	240	5.03	5	2.0	4.0	95	0.2	0.2	0.3	170	0.81
N255185	Drill Core	3.40	10	4.4	109.2	12.8	41	<0.1	11.8	21.5	195	5.41	5	2.0	3.2	99	0.6	0.3	0.3	146	0.77
N255187	Drill Core	6.74	9	15.2	138.6	14.3	50	<0.1	14.1	23.1	413	5.55	4	2.1	4.3	91	0.7	0.3	0.5	177	0.79
N255188	Drill Core	6.70	9	7.3	110.8	18.5	33	<0.1	13.6	22.0	171	4.12	8	1.5	3.5	112	0.5	0.2	1.1	147	0.78
N255189	Drill Core	5.95	12	4.2	169.8	17.1	110	<0.1	16.8	30.2	716	6.30	2	1.8	3.6	141	0.5	0.2	0.1	203	1.27
N255190	Drill Core	7.79	16	18.2	155.7	21.9	64	<0.1	14.0	27.3	432	6.06	<1	2.1	4.4	96	0.4	0.2	0.4	172	1.03
N255191	Drill Core	7.21	4	8.0	92.5	10.9	76	0.2	9.6	18.0	541	4.79	<1	1.5	2.8	94	0.2	0.3	0.1	146	1.17
N255192	Rock	1.91	<2	<0.1	2.3	0.9	4	<0.1	0.2	0.6	106	0.12	<1	0.1	<0.1	77	<0.1	<0.1	0.5	2	33.59
N255193	Drill Core	6.87	12	4.4	198.5	14.2	111	<0.1	15.8	25.2	659	5.09	<1	2.2	3.3	139	0.6	0.2	0.1	195	1.28
N255194	Drill Core	7.45	6	3.7	193.8	10.3	130	<0.1	11.3	17.1	827	4.70	<1	1.9	3.5	141	0.4	0.1	<0.1	141	1.85
N255195	Drill Core	6.32	7	2.0	139.8	9.9	114	<0.1	9.7	16.5	985	4.99	2	2.2	3.9	160	0.2	0.2	<0.1	170	1.90



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Project: Pemberton

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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
N255164	Drill Core	0.063	8.8	33	0.02	19	0.308	6.73	0.020	0.09	0.8	89.7	17	8.1	8.9	4.0	0.3	<1	7	17.8	5.6
N255165	Drill Core	0.076	11.1	25	0.18	15	0.339	6.93	0.037	1.00	0.7	84.9	27	4.9	17.3	4.6	0.3	<1	15	11.8	6.6
N255166	Drill Core	0.094	10.8	9	1.36	49	0.494	8.29	0.299	1.33	0.9	96.5	26	4.9	20.2	7.5	0.5	<1	18	6.4	4.2
N255167	Drill Core	0.004	1.2	1	2.28	20	0.006	0.07	0.028	0.02	<0.1	1.4	<1	0.1	2.2	0.2	<0.1	<1	<1	0.8	<0.1
N255168	Drill Core	0.080	13.8	9	1.32	45	0.483	8.49	1.191	0.93	0.5	87.6	31	3.9	21.4	7.2	0.5	<1	17	5.5	3.0
N255169	Drill Core	0.086	12.5	9	1.52	45	0.466	8.48	0.457	1.54	0.7	89.1	30	3.5	20.6	7.3	0.5	<1	17	5.5	4.2
N255170	Drill Core	0.082	8.7	16	1.25	21	0.425	8.43	0.038	2.47	0.7	79.4	22	4.4	15.1	6.1	0.4	<1	21	3.8	5.8
N255171	Drill Core	0.091	9.5	14	1.40	40	0.400	8.18	0.039	2.42	0.9	80.5	23	4.0	14.1	6.1	0.4	1	21	3.1	3.7
N255172	Drill Core	0.062	11.5	17	0.53	165	0.371	5.97	0.032	1.28	1.8	67.4	26	7.6	13.0	5.7	0.4	<1	10	2.3	2.9
N255174	Drill Core	0.091	15.5	39	0.53	52	0.520	11.42	0.064	2.68	2.1	81.7	35	6.6	10.4	7.8	0.5	<1	17	1.5	2.6
N255175	Drill Core	0.053	8.4	23	0.35	526	0.433	6.73	0.037	1.50	2.2	60.2	20	7.1	5.8	5.1	0.3	<1	10	1.9	2.0
N255176	Drill Core	0.049	11.0	17	0.38	179	0.436	6.44	0.036	1.38	1.6	73.8	24	5.1	11.7	6.0	0.4	<1	17	1.9	0.7
N255177	Drill Core	0.079	14.9	25	0.59	108	0.485	9.65	0.059	1.62	1.2	95.8	33	6.7	13.7	7.4	0.5	<1	20	3.1	1.5
N255178	Drill Core	0.073	16.5	19	0.47	25	0.360	7.32	0.045	1.50	1.1	81.6	34	6.5	16.0	6.5	0.4	<1	18	2.8	3.8
N255179	Drill Core	0.078	16.4	21	0.64	29	0.356	9.64	0.066	2.16	0.5	97.5	35	6.6	21.6	5.1	0.3	<1	23	2.3	4.9
N255180	Rock Pulp	0.056	8.0	17	0.85	768	0.198	6.83	2.054	1.49	1.6	9.6	18	3.0	10.7	2.4	0.2	1	8	8.2	0.3
N255181	Drill Core	0.082	9.4	20	0.92	57	0.417	9.33	0.065	2.23	1.4	77.8	23	4.7	18.8	4.9	0.3	<1	25	3.6	5.1
N255182	Drill Core	0.095	6.7	18	0.93	16	0.426	9.04	0.064	2.25	1.4	89.1	18	3.9	15.8	4.4	0.4	<1	16	5.5	5.5
N255183	Drill Core	0.087	8.5	20	0.92	66	0.446	9.06	0.085	1.78	1.3	87.2	19	3.6	11.6	5.1	0.4	<1	12	7.1	2.4
N255184	Drill Core	0.078	11.7	17	0.85	46	0.423	8.82	0.070	2.01	0.4	90.9	28	2.1	19.4	6.9	0.4	<1	16	4.6	3.8
N255185	Drill Core	0.080	9.8	14	0.70	17	0.425	8.19	0.058	1.91	0.8	88.0	26	3.7	19.8	6.6	0.4	<1	17	3.9	4.4
N255187	Drill Core	0.066	12.3	17	1.20	22	0.432	7.95	0.069	1.65	0.8	91.9	30	4.1	19.9	5.9	0.4	<1	20	4.9	3.0
N255188	Drill Core	0.071	14.8	16	0.66	32	0.453	7.72	0.119	1.76	0.8	84.7	31	4.9	15.2	7.2	0.4	<1	15	3.8	3.5
N255189	Drill Core	0.079	10.3	20	1.72	31	0.417	8.40	0.392	1.68	0.5	91.5	25	2.7	17.4	5.9	0.4	<1	21	5.4	2.5
N255190	Drill Core	0.083	12.0	14	1.50	24	0.367	7.50	0.145	2.20	0.8	84.3	28	4.2	13.8	5.3	0.4	<1	17	3.6	5.1
N255191	Drill Core	0.066	8.6	11	2.23	24	0.313	7.00	0.148	1.99	1.7	83.3	20	2.2	12.4	4.9	0.3	<1	15	7.6	3.9
N255192	Rock	0.006	1.2	<1	1.52	13	0.006	0.08	0.020	0.02	0.1	1.3	1	0.1	2.0	0.1	<0.1	<1	<1	0.9	<0.1
N255193	Drill Core	0.071	9.8	21	2.22	26	0.437	7.51	0.453	2.04	0.5	85.7	24	1.9	15.8	6.5	0.4	<1	21	5.4	3.1
N255194	Drill Core	0.077	11.0	14	2.35	24	0.383	6.60	0.548	2.00	0.6	85.3	26	1.8	15.7	7.2	0.5	<1	16	6.3	3.1
N255195	Drill Core	0.069	12.2	15	2.80	32	0.399	7.04	0.981	1.52	0.4	85.6	28	1.8	17.8	6.4	0.4	<1	19	6.3	3.0



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255164	Drill Core	1.8	2.5	0.27	0.316	17	<0.5	<0.5
N255165	Drill Core	21.7	2.7	0.19	0.116	18	0.6	1.7
N255166	Drill Core	34.1	3.0	0.17	0.045	8	<0.5	2.0
N255167	Drill Core	0.7	<0.1	<0.05	<0.005	<1	3.1	<0.5
N255168	Drill Core	28.8	2.5	0.12	0.023	6	<0.5	1.1
N255169	Drill Core	35.6	2.6	0.11	0.037	11	<0.5	1.6
N255170	Drill Core	47.2	2.4	0.44	0.720	18	<0.5	1.7
N255171	Drill Core	41.1	2.3	0.34	0.567	13	<0.5	1.4
N255172	Drill Core	36.1	2.1	0.47	0.291	20	<0.5	0.8
N255174	Drill Core	52.8	2.6	0.71	0.655	16	<0.5	1.0
N255175	Drill Core	34.1	1.7	0.55	2.302	15	<0.5	0.5
N255176	Drill Core	32.3	2.2	0.38	0.467	6	<0.5	0.7
N255177	Drill Core	28.7	2.8	0.49	0.138	12	<0.5	1.0
N255178	Drill Core	34.8	2.5	0.29	0.112	23	<0.5	1.1
N255179	Drill Core	42.8	2.7	0.28	0.072	24	<0.5	1.9
N255180	Rock Pulp	24.9	0.6	0.09	0.400	<1	1.3	<0.5
N255181	Drill Core	37.3	2.3	0.29	0.139	16	<0.5	2.3
N255182	Drill Core	37.2	2.5	0.23	0.794	13	0.7	2.0
N255183	Drill Core	37.5	2.4	0.07	0.025	3	<0.5	1.2
N255184	Drill Core	55.2	2.9	0.14	<0.005	3	<0.5	1.3
N255185	Drill Core	50.4	2.7	0.15	<0.005	5	0.5	1.5
N255187	Drill Core	47.6	2.8	0.17	<0.005	3	0.7	1.5
N255188	Drill Core	47.9	2.6	0.10	<0.005	4	1.3	2.3
N255189	Drill Core	29.4	2.7	0.12	0.022	4	<0.5	1.1
N255190	Drill Core	61.5	2.6	0.24	0.195	16	0.8	1.6
N255191	Drill Core	42.8	2.5	0.41	0.022	14	0.8	1.0
N255192	Rock	0.4	<0.1	<0.05	<0.005	<1	1.8	<0.5
N255193	Drill Core	47.3	2.5	0.32	0.042	11	<0.5	1.0
N255194	Drill Core	57.9	2.4	0.25	0.013	9	<0.5	0.9
N255195	Drill Core	38.1	2.7	0.34	<0.005	5	<0.5	0.7



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255196	Drill Core	5.72	7	1.3	95.4	10.5	82	<0.1	9.1	12.6	734	3.60	1	1.9	3.3	139	0.2	0.1	<0.1	157	1.51
N255197	Drill Core	7.36	7	7.6	130.7	16.0	99	0.1	11.3	18.2	845	5.10	2	1.9	3.8	120	0.4	0.3	0.1	172	1.71
N255198	Rock Pulp	0.06	617	338.4	3862.7	27.5	105	15.0	24.6	66.7	1464	4.68	1980	2.2	1.4	472	0.9	44.3	13.3	58	5.69
N255199	Drill Core	8.23	4	13.5	115.0	32.5	94	<0.1	14.0	24.6	625	6.36	<1	1.8	3.2	71	0.7	<0.1	0.3	186	1.63
N255200	Drill Core	8.10	4	5.1	91.7	29.1	104	<0.1	11.3	21.7	713	5.56	5	1.8	3.4	69	1.0	0.2	0.3	170	1.71
N255201	Drill Core	8.01	4	5.1	111.8	35.6	130	<0.1	10.0	23.4	543	5.93	3	1.9	3.3	60	1.1	0.2	0.3	165	1.56
N255202	Drill Core	8.40	5	4.4	88.1	24.9	89	<0.1	11.3	21.9	680	5.31	<1	1.9	3.6	71	0.7	<0.1	0.3	155	1.34
N255203	Drill Core	7.66	3	4.1	92.7	22.4	79	<0.1	10.4	20.7	762	5.63	<1	1.9	3.4	73	0.7	0.1	0.2	159	1.21
N255204	Rock Pulp	0.06	177	382.0	1902.3	24.8	57	12.6	13.9	9.1	742	3.59	11	0.9	1.8	433	0.4	32.3	1.7	83	2.63
N255205	Drill Core	7.50	3	3.0	112.2	16.6	79	0.3	10.2	20.9	541	5.67	2	2.0	3.9	62	0.6	0.2	0.3	167	1.50
N255206	Drill Core	7.81	4	5.9	126.6	17.7	77	<0.1	12.3	25.8	650	7.05	4	2.0	3.8	117	0.3	0.2	0.2	179	1.56
N255207	Drill Core	8.37	3	5.3	126.2	10.5	75	<0.1	11.3	21.3	469	5.87	3	2.1	3.6	97	0.4	0.2	0.3	183	1.06
N255208	Drill Core	8.07	3	4.4	96.4	6.9	96	<0.1	10.7	22.4	642	5.37	3	1.9	3.1	142	0.3	0.2	0.1	184	1.28
N255209	Drill Core	4.13	3	4.3	103.8	6.4	104	0.1	9.0	20.4	576	5.54	2	1.8	2.9	147	0.1	0.1	0.1	189	0.83
N255211	Drill Core	8.34	3	2.0	97.8	7.8	127	<0.1	11.0	20.9	567	5.50	2	2.0	3.6	133	0.3	0.4	0.2	192	0.94
N255212	Drill Core	7.74	3	2.3	106.7	10.1	101	0.1	9.5	20.5	485	5.29	1	2.1	4.3	101	0.2	0.1	0.2	175	1.54
N255213	Drill Core	8.04	2	1.2	96.1	9.6	96	0.1	9.7	21.6	729	5.47	4	2.5	4.7	145	0.2	0.2	0.2	187	1.63
N255214	Drill Core	7.32	3	0.5	104.2	6.6	87	<0.1	9.7	20.6	822	5.31	2	1.8	3.7	215	0.3	0.2	0.1	184	2.10
N255215	Drill Core	7.58	3	0.8	118.7	4.4	86	<0.1	9.2	19.6	957	5.45	3	1.8	3.9	247	<0.1	0.1	<0.1	184	2.24
N255216	Rock	2.20	<2	<0.1	2.9	1.1	5	<0.1	0.3	0.3	111	0.12	<1	0.1	<0.1	82	<0.1	<0.1	<0.1	2	34.45



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1
N255196	Drill Core	0.066	11.0	19	2.40	39	0.386	7.47	0.593	2.28	0.6	77.1	26	1.4	15.7	5.9	0.4	<1	16	5.1	1.9
N255197	Drill Core	0.060	10.9	15	2.48	30	0.379	7.07	0.372	1.57	1.1	82.1	26	3.9	16.3	6.0	0.4	<1	19	7.1	3.7
N255198	Rock Pulp	0.061	15.6	29	0.74	175	0.147	5.98	1.610	1.59	3.7	19.5	24	2.9	8.6	1.6	0.1	<1	6	11.3	0.6
N255199	Drill Core	0.075	8.7	8	2.16	16	0.273	9.43	0.084	1.93	0.6	99.4	22	3.1	14.1	3.6	0.3	1	20	14.8	6.9
N255200	Drill Core	0.075	9.5	10	2.23	16	0.247	7.75	0.089	1.98	0.5	110.6	23	3.1	16.9	3.8	0.3	<1	19	13.8	6.3
N255201	Drill Core	0.073	9.7	8	1.84	32	0.237	7.58	0.076	2.10	0.4	97.0	24	4.1	17.6	3.7	0.3	1	18	12.1	6.5
N255202	Drill Core	0.068	9.0	8	2.20	17	0.238	7.40	0.307	2.24	0.3	104.3	22	2.7	15.8	3.6	0.3	<1	18	11.6	5.9
N255203	Drill Core	0.064	9.2	7	2.01	13	0.227	7.41	0.640	2.34	0.4	101.9	22	2.4	15.4	3.4	0.2	<1	18	8.6	6.2
N255204	Rock Pulp	0.047	6.9	15	0.84	709	0.201	6.66	2.119	1.55	1.6	8.9	16	2.7	10.3	2.4	0.2	<1	8	8.5	0.3
N255205	Drill Core	0.068	10.7	9	1.68	14	0.250	7.19	0.295	2.37	2.5	98.4	25	3.3	18.9	3.6	0.3	1	18	8.8	6.4
N255206	Drill Core	0.086	9.4	9	1.96	13	0.370	9.71	0.894	2.22	0.7	104.5	24	3.4	17.9	5.3	0.4	<1	20	12.1	7.6
N255207	Drill Core	0.071	9.9	11	1.89	12	0.404	7.77	1.034	2.33	0.7	106.7	26	4.0	17.8	6.3	0.4	<1	18	8.3	6.5
N255208	Drill Core	0.068	8.0	11	2.28	12	0.422	6.59	1.747	1.58	0.5	100.5	22	2.5	16.5	5.9	0.4	<1	16	10.5	5.9
N255209	Drill Core	0.070	7.2	9	2.44	22	0.411	7.21	2.314	1.26	0.7	98.6	20	2.3	16.7	6.4	0.5	<1	18	11.4	6.1
N255211	Drill Core	0.071	9.6	9	2.27	20	0.386	7.84	1.579	1.82	0.5	92.2	24	2.4	16.7	5.7	0.4	1	20	7.6	6.1
N255212	Drill Core	0.084	12.3	9	1.44	19	0.382	8.05	0.819	2.00	0.6	103.6	29	2.8	19.8	6.7	0.4	<1	19	5.1	5.9
N255213	Drill Core	0.087	13.8	10	2.33	18	0.462	9.30	1.300	1.99	0.5	107.8	30	2.2	21.2	7.8	0.5	2	23	9.6	5.7
N255214	Drill Core	0.074	10.8	8	2.18	34	0.434	7.40	1.811	1.20	0.3	84.9	26	0.9	17.6	6.7	0.5	1	19	8.6	5.6
N255215	Drill Core	0.080	10.3	11	2.39	19	0.429	7.80	2.016	1.29	0.3	84.9	25	0.9	21.5	7.3	0.5	<1	21	10.0	5.2
N255216	Rock	0.008	1.8	<1	1.83	17	0.006	0.09	0.021	0.03	<0.1	1.7	1	0.2	2.1	0.2	<0.1	<1	<1	0.7	<0.1



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CERTIFICATE OF ANALYSIS

VAN18003095.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255196	Drill Core	51.6	2.4	0.16	<0.005	2	<0.5	0.9
N255197	Drill Core	47.3	2.2	0.27	0.063	15	0.9	1.1
N255198	Rock Pulp	36.5	0.7	0.13	0.385	3	2.6	<0.5
N255199	Drill Core	42.2	3.0	0.17	0.057	16	<0.5	3.6
N255200	Drill Core	45.8	3.2	0.20	0.039	13	<0.5	4.7
N255201	Drill Core	53.4	2.9	0.24	0.035	13	<0.5	3.8
N255202	Drill Core	60.3	3.2	0.23	0.013	15	<0.5	3.1
N255203	Drill Core	61.8	2.9	0.17	0.017	16	<0.5	2.5
N255204	Rock Pulp	28.1	0.5	0.09	0.419	<1	1.4	<0.5
N255205	Drill Core	66.3	2.9	0.21	0.010	12	<0.5	2.1
N255206	Drill Core	59.5	3.1	0.42	0.196	16	1.2	1.3
N255207	Drill Core	69.0	3.2	0.27	0.049	9	0.7	1.0
N255208	Drill Core	43.9	3.2	0.24	0.011	9	0.6	0.7
N255209	Drill Core	32.0	2.8	0.32	0.006	9	0.8	<0.5
N255211	Drill Core	58.8	2.6	0.35	<0.005	9	1.1	0.6
N255212	Drill Core	66.0	3.0	0.19	<0.005	7	1.5	0.7
N255213	Drill Core	61.8	2.9	0.35	<0.005	6	0.8	0.7
N255214	Drill Core	28.3	2.6	0.13	<0.005	3	1.3	0.5
N255215	Drill Core	21.9	2.4	0.26	<0.005	3	0.9	<0.5
N255216	Rock	1.5	<0.1	<0.05	<0.005	<1	0.7	<0.5



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QUALITY CONTROL REPORT

VAN18003095.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N256672	Drill Core	8.54	9	3.7	132.8	16.2	8	<0.1	18.8	24.8	4	3.68	23	2.6	5.2	675	<0.1	1.2	3.6	402	0.09
REP N256672	QC	8																			
N256677	Drill Core	7.70	9	5.4	213.8	21.5	9	0.2	13.8	21.3	49	8.21	21	1.9	4.5	638	<0.1	0.3	4.2	216	0.07
REP N256677	QC	5.2 224.2 22.0 8 0.2 15.5 22.3 47 8.40 19 1.9 4.6 656 <0.1 0.5 4.6 224 0.07																			
N256693	Drill Core	4.00	19	34.0	65.3	15.3	1	<0.1	15.9	14.7	10	3.20	2	0.4	0.9	219	<0.1	0.7	1.8	25	0.03
REP N256693	QC	18																			
N255157	Rock	2.06	2	0.1	2.5	0.6	3	<0.1	0.2	0.8	139	0.11	2	0.1	<0.1	94	<0.1	<0.1	<0.1	2	31.81
REP N255157	QC	2																			
N255163	Drill Core	8.67	9	21.0	110.3	22.0	4	<0.1	27.9	31.8	13	5.09	6	1.7	3.5	235	0.3	0.4	3.4	123	1.28
REP N255163	QC	20.8 121.1 22.9 4 <0.1 27.7 33.1 13 5.25 6 1.7 3.6 243 0.2 0.4 3.4 125 1.33																			
N255193	Drill Core	6.87	12	4.4	198.5	14.2	111	<0.1	15.8	25.2	659	5.09	<1	2.2	3.3	139	0.6	0.2	0.1	195	1.28
REP N255193	QC	11																			
N255200	Drill Core	8.10	4	5.1	91.7	29.1	104	<0.1	11.3	21.7	713	5.56	5	1.8	3.4	69	1.0	0.2	0.3	170	1.71
REP N255200	QC	5.4 96.6 29.5 105 <0.1 11.2 23.2 731 5.55 3 1.9 3.1 67 0.8 0.2 0.3 172 1.67																			
N255215	Drill Core	7.58	3	0.8	118.7	4.4	86	<0.1	9.2	19.6	957	5.45	3	1.8	3.9	247	<0.1	0.1	<0.1	184	2.24
REP N255215	QC	0.7 115.7 4.3 83 <0.1 9.7 19.2 980 5.50 2 1.8 3.8 247 0.1 0.2 <0.1 185 2.26																			
Core Reject Duplicates																					
N256683	Drill Core	7.51	8	16.7	101.1	37.1	3	0.1	23.6	23.0	21	6.01	9	0.9	3.1	640	<0.1	0.5	2.0	78	0.06
DUP N256683	QC	9 18.2 102.6 35.9 2 0.1 23.5 24.1 18 5.92 11 0.9 3.2 634 <0.1 0.8 1.9 76 0.05																			
N255169	Drill Core	7.74	3	4.4	77.4	26.6	86	<0.1	7.4	22.4	952	5.99	3	1.6	3.9	90	0.1	0.6	<0.1	173	2.71
DUP N255169	QC	4 3.8 91.2 28.7 91 <0.1 8.1 24.7 969 6.24 2 1.7 3.9 95 0.5 0.6 <0.1 181 2.61																			
N255205	Drill Core	7.50	3	3.0	112.2	16.6	79	0.3	10.2	20.9	541	5.67	2	2.0	3.9	62	0.6	0.2	0.3	167	1.50
DUP N255205	QC	3 3.1 108.2 16.3 85 0.3 10.4 21.5 576 5.71 2 2.2 3.9 65 0.6 0.1 0.3 181 1.50																			
Reference Materials																					
STD OREAS25A-4A	Standard	2.6 35.2 27.0 47 <0.1 46.9 7.1 521 6.64 9 3.3 15.7 46 <0.1 0.5 0.4 164 0.24																			
STD OREAS25A-4A	Standard	2.4 37.2 25.3 45 <0.1 45.2 8.5 530 6.91 10 3.0 17.2 49 0.1 0.6 0.3 170 0.31																			
STD OREAS25A-4A	Standard	2.8 35.7 25.5 45 <0.1 48.8 7.7 522 6.46 10 3.0 16.8 50 <0.1 0.7 0.4 159 0.30																			
STD OREAS25A-4A	Standard	2.4 34.7 25.5 43 <0.1 45.5 7.4 530 6.58 9 3.0 15.6 49 <0.1 0.8 0.3 163 0.29																			



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N256672	Drill Core	0.118	15.4	30	<0.01	37	0.536	10.48	0.013	0.01	0.4	92.1	37	4.9	4.8	7.1	0.5	<1	12	2.0	4.1
REP N256672	QC																				
N256677	Drill Core	0.078	13.9	14	<0.01	10	0.317	7.48	0.012	0.02	0.3	86.4	31	2.7	4.4	5.0	0.3	<1	9	1.7	9.3
REP N256677	QC	0.083	14.1	16	<0.01	8	0.326	7.49	0.012	0.02	0.3	90.0	32	2.9	4.7	5.1	0.4	<1	9	1.6	9.5
N256693	Drill Core	0.027	4.9	9	<0.01	13	0.180	1.41	0.006	<0.01	0.5	26.7	11	2.7	1.0	1.7	0.1	<1	2	3.8	3.5
REP N256693	QC																				
N255157	Rock	0.009	1.4	<1	1.72	28	0.007	0.05	0.019	0.01	<0.1	1.5	1	0.1	2.3	0.2	<0.1	<1	<1	0.6	<0.1
REP N255157	QC																				
N255163	Drill Core	0.062	13.4	33	<0.01	19	0.283	7.50	0.018	0.01	0.6	98.9	27	15.5	6.5	3.6	0.3	<1	5	18.6	5.8
REP N255163	QC	0.066	13.2	33	<0.01	18	0.300	7.72	0.018	0.01	0.7	100.8	27	15.1	6.4	3.8	0.3	<1	7	20.1	6.0
N255193	Drill Core	0.071	9.8	21	2.22	26	0.437	7.51	0.453	2.04	0.5	85.7	24	1.9	15.8	6.5	0.4	<1	21	5.4	3.1
REP N255193	QC																				
N255200	Drill Core	0.075	9.5	10	2.23	16	0.247	7.75	0.089	1.98	0.5	110.6	23	3.1	16.9	3.8	0.3	<1	19	13.8	6.3
REP N255200	QC	0.073	9.0	10	2.22	16	0.249	7.73	0.093	1.86	0.4	111.3	23	3.2	16.1	3.6	0.3	<1	18	13.7	6.2
N255215	Drill Core	0.080	10.3	11	2.39	19	0.429	7.80	2.016	1.29	0.3	84.9	25	0.9	21.5	7.3	0.5	<1	21	10.0	5.2
REP N255215	QC	0.078	10.2	11	2.39	19	0.428	7.83	2.077	1.33	0.2	84.8	24	0.8	21.4	6.9	0.4	<1	21	9.5	5.4
Core Reject Duplicates																					
N256683	Drill Core	0.071	11.4	13	<0.01	12	0.186	4.25	0.012	0.01	0.3	57.5	27	3.3	3.2	2.5	0.2	<1	4	4.0	6.7
DUP N256683	QC	0.070	11.4	15	<0.01	9	0.170	4.27	0.012	0.01	0.3	55.1	26	3.4	3.2	2.3	0.1	<1	4	4.8	6.7
N255169	Drill Core	0.086	12.5	9	1.52	45	0.466	8.48	0.457	1.54	0.7	89.1	30	3.5	20.6	7.3	0.5	<1	17	5.5	4.2
DUP N255169	QC	0.097	12.9	9	1.57	41	0.485	8.49	0.488	1.53	0.5	96.0	31	3.7	21.0	8.0	0.5	<1	17	6.1	4.2
N255205	Drill Core	0.068	10.7	9	1.68	14	0.250	7.19	0.295	2.37	2.5	98.4	25	3.3	18.9	3.6	0.3	1	18	8.8	6.4
DUP N255205	QC	0.070	10.2	9	1.76	13	0.255	6.92	0.317	2.12	2.9	101.9	25	3.2	19.0	4.0	0.3	<1	20	9.4	6.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.048	18.1	119	0.34	152	0.920	8.59	0.128	0.49	1.9	153.6	40	3.9	9.2	20.5	1.6	2	11	37.9	<0.1
STD OREAS25A-4A	Standard	0.050	22.5	114	0.36	152	0.983	9.32	0.128	0.48	2.1	158.7	47	4.3	11.8	20.1	1.5	1	12	37.2	<0.1
STD OREAS25A-4A	Standard	0.051	22.5	116	0.36	163	0.930	9.20	0.127	0.50	2.1	155.4	48	3.6	10.4	20.6	1.5	1	11	41.9	<0.1
STD OREAS25A-4A	Standard	0.047	22.3	113	0.35	152	0.927	9.30	0.127	0.48	1.7	149.2	51	3.9	10.7	19.2	1.4	1	12	38.0	<0.1



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb ppm 0.1	Hf ppm 0.1	In ppm 0.05	Re ppm 0.005	Se ppm 1	Te ppm 0.5	Tl ppm 0.5
Pulp Duplicates								
N256672	Drill Core	0.2	2.8	0.06	0.023	14	0.8	1.1
REP N256672	QC							
N256677	Drill Core	0.3	2.4	0.13	0.071	17	1.3	1.1
REP N256677	QC	0.3	2.5	0.08	0.096	21	1.2	1.1
N256693	Drill Core	0.2	0.8	<0.05	0.252	9	<0.5	<0.5
REP N256693	QC							
N255157	Rock	0.4	<0.1	<0.05	<0.005	<1	3.1	<0.5
REP N255157	QC							
N255163	Drill Core	0.4	2.9	0.22	0.431	22	0.9	<0.5
REP N255163	QC	0.5	2.7	0.20	0.423	26	1.3	<0.5
N255193	Drill Core	47.3	2.5	0.32	0.042	11	<0.5	1.0
REP N255193	QC							
N255200	Drill Core	45.8	3.2	0.20	0.039	13	<0.5	4.7
REP N255200	QC	40.9	3.6	0.24	0.036	12	<0.5	4.7
N255215	Drill Core	21.9	2.4	0.26	<0.005	3	0.9	<0.5
REP N255215	QC	20.6	2.3	0.11	<0.005	1	0.8	<0.5
Core Reject Duplicates								
N256683	Drill Core	0.2	1.6	0.05	0.100	11	0.9	1.2
DUP N256683	QC	0.2	1.6	<0.05	0.090	7	1.0	1.0
N255169	Drill Core	35.6	2.6	0.11	0.037	11	<0.5	1.6
DUP N255169	QC	33.1	2.6	0.15	0.036	14	<0.5	1.7
N255205	Drill Core	66.3	2.9	0.21	0.010	12	<0.5	2.1
DUP N255205	QC	55.4	3.1	0.23	0.021	16	<0.5	2.3
Reference Materials								
STD OREAS25A-4A	Standard	52.4	4.3	0.16	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	60.0	4.3	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.4	4.1	0.15	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	59.2	4.2	0.06	<0.005	1	<0.5	<0.5



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.3	33.2	23.8	41	<0.1	43.0	7.3	491	6.45	9	2.6	15.1	47	<0.1	0.5	0.4	155	0.27
STD OREAS45E	Standard			2.4	793.4	19.9	46	0.3	446.9	60.9	590	25.37	17	2.7	14.8	18	<0.1	1.1	0.3	328	0.07
STD OREAS45E	Standard			2.1	797.0	19.7	48	0.4	472.4	57.2	610	24.38	18	2.8	14.9	19	0.2	1.2	0.4	336	0.07
STD OREAS45E	Standard			2.5	783.0	19.0	45	0.4	476.8	55.6	597	23.89	17	2.7	14.1	18	<0.1	1.0	0.3	325	0.08
STD OREAS45E	Standard			1.7	781.1	17.4	43	0.3	482.3	54.3	599	23.91	16	2.5	13.3	16	<0.1	1.1	0.3	327	0.07
STD OREAS45E	Standard			2.3	776.9	19.0	48	0.3	476.9	57.8	562	23.78	16	2.6	13.3	17	<0.1	1.0	0.4	337	0.06
STD OXC145	Standard		221																		
STD OXC145	Standard		215																		
STD OXC145	Standard		204																		
STD OXC145	Standard		210																		
STD OXC145	Standard		206																		
STD OXH139	Standard		1370																		
STD OXH139	Standard		1284																		
STD OXH139	Standard		1268																		
STD OXH139	Standard		1276																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXH139 Expected			1312																		
STD OXC145 Expected			212																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		<2																		



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 28, 2018

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QUALITY CONTROL REPORT

VAN18003095.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS25A-4A	Standard	0.046	19.4	100	0.31	142	0.930	8.92	0.111	0.48	1.9	143.4	45	3.8	9.7	18.4	1.3	2	12	34.8	<0.1
STD OREAS45E	Standard	0.033	11.4	966	0.16	259	0.548	7.22	0.053	0.31	1.0	97.2	25	1.2	7.5	6.0	0.6	<1	86	7.2	<0.1
STD OREAS45E	Standard	0.034	11.6	944	0.18	273	0.546	6.94	0.058	0.36	1.0	95.9	26	1.5	8.1	6.0	0.6	<1	94	7.1	<0.1
STD OREAS45E	Standard	0.039	11.0	962	0.18	269	0.543	7.04	0.061	0.36	1.1	93.7	24	1.5	7.9	6.0	0.5	<1	96	7.9	<0.1
STD OREAS45E	Standard	0.033	11.1	968	0.16	246	0.535	7.09	0.051	0.33	0.9	86.0	24	1.3	7.1	5.7	0.5	<1	86	6.4	<0.1
STD OREAS45E	Standard	0.033	10.5	945	0.15	259	0.539	6.93	0.052	0.35	1.1	100.0	24	1.3	8.0	6.3	0.5	1	90	6.9	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXH139 Expected																					
STD OXC145 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



Bureau Veritas Commodities Canada Ltd.

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Project: Pemberton

Report Date: November 28, 2018

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QUALITY CONTROL REPORT

VAN18003095.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS25A-4A	Standard	53.9	3.9	0.06	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.2	<0.05	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.2	3.3	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.4	2.8	0.09	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	20.7	2.8	0.13	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.2	3.0	0.08	<0.005	4	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXH139 Expected								
STD OXC145 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							



Bureau Veritas Commodities Canada Ltd.
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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton
Report Date: November 28, 2018

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QUALITY CONTROL REPORT **VAN18003095.1**

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.2	3.3	2.6	33	<0.1	0.7	4.5	650	2.17	3	1.3	3.3	234	<0.1	<0.1	<0.1	37	1.59
ROCK-VAN	Prep Blank		3	1.0	3.2	2.6	31	<0.1	1.3	4.0	641	2.15	2	1.2	2.9	224	<0.1	<0.1	<0.1	36	1.58

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



Bureau Veritas Commodities Canada Ltd.
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Project: Pemberton
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QUALITY CONTROL REPORT

VAN18003095.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.041	13.0	2	0.49	839	0.216	6.98	3.668	1.53	0.4	56.7	25	0.8	15.5	5.7	0.4	<1	6	2.4	<0.1
ROCK-VAN	Prep Blank	0.037	12.7	2	0.48	828	0.214	6.82	3.605	1.51	0.3	55.3	23	0.9	14.6	5.5	0.4	1	6	2.1	<0.1



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 28, 2018

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QUALITY CONTROL REPORT

VAN18003095.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	32.8	1.8	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	31.4	1.9	<0.05	<0.005	<1	<0.5	<0.5



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: November 06, 2018

Report Date: November 29, 2018

Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN18003150.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 82

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	76	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA350-Au	82	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	82	Environmental disposal charge-Fire assay lead waste			VAN
MA200	82	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



LILYBETH DE VERA-BOY
Fire Assay Spectroscopy Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 29, 2018

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CERTIFICATE OF ANALYSIS

VAN18003150.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255217	Drill Core	7.52	4	1.5	123.8	5.8	87	0.1	8.1	18.6	818	5.28	3	1.5	3.4	214	0.1	<0.1	<0.1	161	2.63
N255218	Drill Core	8.18	2	1.8	120.3	5.2	86	<0.1	10.9	19.8	1007	4.83	2	1.9	4.0	253	0.3	<0.1	<0.1	197	2.03
N255219	Drill Core	7.66	3	2.0	114.5	7.5	80	<0.1	9.5	20.6	768	4.52	3	2.0	4.0	183	0.5	<0.1	0.1	194	1.63
N255220	Drill Core	7.95	3	1.8	102.6	5.9	81	<0.1	9.5	21.5	915	4.74	2	1.9	3.9	228	<0.1	0.1	<0.1	200	2.62
N255221	Drill Core	7.69	4	2.4	129.3	6.8	71	<0.1	10.3	22.2	947	4.85	1	2.0	3.9	219	<0.1	<0.1	<0.1	171	3.05
N255222	Rock Pulp	0.06	598	339.2	3759.2	25.2	98	15.5	24.9	68.1	1430	4.63	1909	2.1	1.3	440	0.7	41.2	14.1	58	5.82
N255223	Drill Core	8.12	5	0.9	98.4	3.6	67	<0.1	7.0	17.4	1123	4.94	3	1.7	3.9	265	0.1	0.1	<0.1	156	3.47
N255224	Drill Core	7.81	3	2.7	78.4	3.7	54	<0.1	7.2	16.7	1020	4.89	1	2.1	4.3	240	0.1	<0.1	<0.1	142	2.79
N255225	Drill Core	8.24	3	2.5	88.9	4.1	62	<0.1	7.4	16.2	943	4.59	1	2.0	4.7	220	0.3	<0.1	<0.1	137	3.21
N255226	Drill Core	8.57	3	2.1	68.1	4.2	51	<0.1	6.0	17.9	681	5.06	3	1.9	4.1	178	0.1	0.1	0.1	145	3.67
N255227	Drill Core	7.81	3	1.1	57.1	4.2	58	<0.1	7.1	20.2	720	5.24	3	1.3	2.7	118	<0.1	0.3	0.1	169	3.86
N255228	Rock	2.11	<2	<0.1	1.4	0.5	2	<0.1	<0.1	0.7	123	0.10	<1	0.1	0.1	75	<0.1	<0.1	<0.1	<1	33.38
N255229	Drill Core	7.87	3	0.9	62.2	3.3	60	<0.1	7.1	20.2	1232	5.25	3	1.4	3.1	289	<0.1	0.2	<0.1	174	4.24
N255230	Drill Core	8.28	2	1.0	66.6	3.6	62	<0.1	7.4	20.5	1203	5.31	2	1.3	2.9	269	0.1	0.1	<0.1	175	4.17
N255231	Drill Core	8.28	3	1.6	58.0	4.1	62	<0.1	7.2	20.1	1053	5.36	3	1.1	2.6	260	<0.1	0.1	<0.1	174	3.71
N255232	Drill Core	3.72	3	1.5	60.7	4.3	54	<0.1	7.6	20.4	923	5.53	2	1.4	3.0	234	0.1	0.2	<0.1	172	4.09
N255234	Drill Core	8.31	3	1.3	59.9	3.6	50	0.1	6.8	19.3	840	5.36	2	1.2	2.7	247	<0.1	<0.1	<0.1	168	3.89
N255235	Drill Core	7.94	3	2.9	67.7	5.6	60	<0.1	8.2	18.4	698	5.06	5	1.4	3.0	146	0.2	0.2	0.1	163	3.68
N255236	Drill Core	7.72	<2	2.1	60.6	4.2	61	<0.1	7.6	20.9	1551	5.52	2	1.3	3.0	321	0.2	<0.1	<0.1	179	3.98
N255237	Drill Core	8.28	3	7.9	64.4	4.9	52	<0.1	8.3	20.2	1580	5.59	1	1.3	2.6	284	<0.1	0.1	<0.1	173	3.28
N255238	Rock Pulp	0.07	184	371.9	1865.4	24.3	57	13.2	15.2	8.6	768	3.61	14	0.9	1.9	435	0.1	32.7	2.1	85	2.79
N255239	Drill Core	7.67	3	1.7	64.6	4.7	65	<0.1	8.3	19.4	1433	5.36	1	1.3	2.7	289	<0.1	0.2	<0.1	171	3.02
N255240	Drill Core	6.37	4	1.9	76.7	4.9	67	0.1	7.2	17.1	916	4.74	2	2.1	4.7	217	<0.1	<0.1	<0.1	144	3.61
N255241	Drill Core	7.83	3	1.4	79.2	4.5	54	<0.1	7.6	16.3	979	4.63	2	2.2	4.6	178	<0.1	0.2	<0.1	127	2.40
N255242	Drill Core	8.51	3	3.0	72.6	6.0	61	0.1	6.0	15.2	889	4.29	<1	2.2	5.1	195	<0.1	0.1	<0.1	117	3.29
N255243	Rock Pulp	0.06	633	336.1	3907.9	25.0	103	15.0	24.2	68.5	1494	4.75	1874	2.1	1.4	459	0.7	43.9	15.0	59	5.89
N255244	Drill Core	7.58	6	3.7	72.6	5.6	58	<0.1	7.7	17.8	952	4.77	<1	2.3	4.9	222	<0.1	0.1	<0.1	120	2.71
N255245	Drill Core	8.33	3	4.4	68.4	6.1	58	<0.1	7.0	17.2	1068	4.66	<1	2.4	5.2	225	<0.1	<0.1	<0.1	124	2.97
N255246	Drill Core	8.01	3	15.7	81.7	9.8	67	0.1	7.3	17.1	813	4.85	<1	2.5	5.3	167	0.2	0.3	0.2	132	2.02
N255247	Drill Core	7.18	3	21.1	93.1	28.7	75	0.1	7.1	16.2	950	4.68	<1	2.5	5.2	171	0.4	0.2	0.3	129	2.25



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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255217	Drill Core	0.066	8.5	10	2.26	20	0.390	7.21	2.032	1.50	0.3	68.8	22	1.3	19.4	6.1	0.4	<1	20	8.0	4.8
N255218	Drill Core	0.073	12.3	15	2.71	45	0.439	7.62	2.387	1.52	0.4	76.7	28	0.8	23.7	7.4	0.5	2	23	8.0	2.5
N255219	Drill Core	0.075	11.3	13	2.28	22	0.413	7.46	1.736	2.34	0.4	82.7	29	1.3	21.2	7.1	0.4	<1	24	6.9	3.7
N255220	Drill Core	0.072	11.2	13	2.35	46	0.413	7.58	1.725	1.97	0.3	78.6	29	1.0	24.7	6.9	0.4	1	24	5.9	2.3
N255221	Drill Core	0.071	10.8	14	2.21	41	0.452	7.65	1.580	1.94	0.4	95.7	26	1.1	20.9	8.1	0.5	<1	21	7.0	3.0
N255222	Rock Pulp	0.065	14.9	31	0.74	298	0.136	5.61	1.646	1.65	3.5	20.0	22	2.8	8.4	1.7	<0.1	<1	6	12.0	0.6
N255223	Drill Core	0.081	11.5	10	1.91	60	0.415	7.30	2.346	1.64	0.4	114.2	29	1.2	20.7	8.0	0.5	<1	17	4.8	1.7
N255224	Drill Core	0.076	11.2	9	1.90	37	0.407	7.48	2.708	1.66	0.4	118.9	28	1.3	21.9	8.0	0.5	<1	16	5.5	2.7
N255225	Drill Core	0.079	12.2	9	1.70	54	0.392	7.44	2.102	1.90	0.4	118.9	29	1.3	21.8	8.4	0.5	1	16	5.4	2.2
N255226	Drill Core	0.069	11.6	7	1.24	32	0.434	7.12	0.933	1.75	0.6	112.7	27	1.2	20.2	8.2	0.5	<1	17	5.1	4.3
N255227	Drill Core	0.069	9.4	8	1.53	37	0.417	7.35	0.536	1.94	0.3	81.0	22	1.1	17.5	5.9	0.4	<1	18	6.6	4.2
N255228	Rock	0.006	1.5	<1	1.83	17	0.005	0.11	0.037	0.04	<0.1	2.7	1	<0.1	2.4	0.3	<0.1	<1	<1	0.8	<0.1
N255229	Drill Core	0.075	11.0	8	1.99	111	0.438	7.66	1.809	1.51	0.3	96.8	27	0.7	19.5	6.2	0.4	<1	21	4.9	2.2
N255230	Drill Core	0.070	10.0	8	2.24	115	0.439	7.72	2.105	1.55	0.3	93.8	26	0.8	18.2	6.4	0.4	<1	20	5.2	1.9
N255231	Drill Core	0.074	9.1	9	1.94	42	0.415	7.56	1.925	1.58	0.3	87.5	22	1.1	17.7	5.6	0.4	<1	19	5.1	3.2
N255232	Drill Core	0.076	9.7	8	1.52	33	0.417	7.57	1.731	1.82	0.5	95.8	22	1.0	18.4	6.1	0.4	1	19	3.2	3.9
N255234	Drill Core	0.068	8.7	8	1.62	37	0.412	7.43	1.643	1.77	0.4	91.5	21	1.0	17.0	5.9	0.4	1	18	3.6	3.8
N255235	Drill Core	0.071	10.2	8	1.57	32	0.430	7.68	0.869	2.00	0.3	93.1	24	1.4	17.7	6.4	0.4	<1	18	6.3	5.1
N255236	Drill Core	0.066	10.3	8	2.20	50	0.446	7.84	1.820	1.46	0.4	101.7	25	1.2	19.8	6.0	0.4	<1	20	6.2	3.2
N255237	Drill Core	0.074	9.2	8	2.44	57	0.423	7.64	1.958	1.68	0.5	90.1	23	0.8	18.1	5.7	0.4	<1	20	6.6	3.3
N255238	Rock Pulp	0.052	6.6	17	0.82	724	0.194	6.72	2.190	1.92	1.6	9.9	16	2.8	10.7	2.6	0.2	1	9	9.2	0.3
N255239	Drill Core	0.068	9.9	8	2.88	509	0.366	7.78	2.448	1.34	0.4	98.6	24	0.7	17.6	4.8	0.3	<1	18	7.5	1.0
N255240	Drill Core	0.075	12.9	9	1.59	50	0.387	7.30	1.561	1.84	0.3	113.5	30	1.2	22.5	8.1	0.6	<1	17	3.5	3.3
N255241	Drill Core	0.081	11.4	7	1.97	41	0.310	7.20	1.593	2.21	0.4	126.6	29	1.2	21.2	6.7	0.5	2	16	4.4	3.2
N255242	Drill Core	0.076	13.5	7	1.48	32	0.247	7.41	1.426	1.99	0.5	137.5	33	1.3	22.9	6.0	0.5	<1	15	3.7	4.2
N255243	Rock Pulp	0.062	14.5	29	0.75	347	0.140	5.82	1.713	1.70	3.9	20.7	23	2.8	9.0	1.8	<0.1	<1	6	12.5	0.6
N255244	Drill Core	0.081	12.3	7	1.78	33	0.235	7.48	1.860	2.04	0.5	150.4	32	1.3	22.2	6.2	0.5	<1	17	4.0	4.6
N255245	Drill Core	0.083	12.6	9	1.75	26	0.275	7.63	1.863	1.98	0.7	159.1	32	1.3	23.5	7.0	0.5	1	17	4.5	4.6
N255246	Drill Core	0.076	12.8	7	1.73	19	0.287	7.63	1.332	2.04	0.6	158.9	32	2.0	23.6	7.0	0.5	<1	16	4.3	5.1
N255247	Drill Core	0.084	13.1	7	1.74	16	0.276	7.57	1.473	2.19	0.5	157.6	33	3.4	23.2	6.5	0.5	1	15	3.5	5.0



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255217	Drill Core	30.2	1.9	0.16	0.006	4	1.4	<0.5
N255218	Drill Core	31.4	2.5	0.08	0.008	3	<0.5	<0.5
N255219	Drill Core	68.7	2.4	0.17	0.015	7	1.8	0.6
N255220	Drill Core	45.6	1.9	0.06	0.012	5	0.6	<0.5
N255221	Drill Core	36.8	2.8	0.21	0.012	5	0.8	<0.5
N255222	Rock Pulp	34.9	0.7	0.15	0.345	6	2.2	<0.5
N255223	Drill Core	22.2	3.2	0.05	0.005	2	<0.5	<0.5
N255224	Drill Core	29.1	3.2	0.05	0.007	3	0.7	<0.5
N255225	Drill Core	39.4	3.5	0.05	0.008	2	0.6	<0.5
N255226	Drill Core	46.6	3.1	0.12	<0.005	6	0.9	0.5
N255227	Drill Core	45.8	2.4	<0.05	<0.005	4	<0.5	0.6
N255228	Rock	1.0	<0.1	<0.05	<0.005	<1	1.9	<0.5
N255229	Drill Core	25.9	2.9	<0.05	<0.005	4	<0.5	<0.5
N255230	Drill Core	23.8	2.6	0.07	<0.005	3	0.8	<0.5
N255231	Drill Core	27.4	2.5	0.07	<0.005	3	0.7	<0.5
N255232	Drill Core	44.3	2.6	<0.05	<0.005	3	1.0	<0.5
N255234	Drill Core	33.7	2.3	<0.05	<0.005	5	1.1	<0.5
N255235	Drill Core	47.4	2.7	<0.05	0.006	5	1.1	0.6
N255236	Drill Core	24.6	2.8	0.06	<0.005	3	0.7	<0.5
N255237	Drill Core	27.7	2.6	<0.05	0.022	8	0.8	<0.5
N255238	Rock Pulp	31.0	0.6	0.12	0.385	<1	0.9	<0.5
N255239	Drill Core	19.3	2.5	<0.05	<0.005	2	1.3	<0.5
N255240	Drill Core	53.7	3.1	<0.05	<0.005	4	0.9	0.5
N255241	Drill Core	47.3	3.3	<0.05	<0.005	5	0.8	<0.5
N255242	Drill Core	52.5	3.6	0.19	<0.005	9	<0.5	0.5
N255243	Rock Pulp	35.6	0.7	0.20	0.351	3	1.9	<0.5
N255244	Drill Core	48.8	3.9	0.10	0.014	16	0.5	0.5
N255245	Drill Core	53.6	4.1	<0.05	0.017	14	0.8	0.7
N255246	Drill Core	63.9	4.0	<0.05	0.097	12	<0.5	1.0
N255247	Drill Core	63.1	3.7	0.30	0.539	10	0.5	1.5



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Method Analyte	Unit MDL	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255248	Drill Core	8.54	2	3.5	73.0	25.2	68	<0.1	7.2	16.7	968	4.57	<1	2.5	5.4	187	0.3	0.3	0.5	130	1.95
N255249	Drill Core	7.20	3	3.1	79.7	23.9	70	<0.1	7.2	15.8	840	4.55	<1	2.4	5.1	175	0.2	0.3	0.4	129	1.74
N255250	Drill Core	8.72	2	3.4	78.7	22.7	66	<0.1	7.8	17.2	743	4.58	<1	2.4	5.0	140	0.4	0.2	0.4	127	1.52
N255251	Rock	2.39	<2	<0.1	1.0	0.5	3	<0.1	<0.1	1.1	122	0.10	<1	0.1	<0.1	75	<0.1	<0.1	<0.1	1	32.98
N255252	Drill Core	7.08	2	3.3	85.0	16.5	77	<0.1	7.6	17.4	594	4.80	2	2.6	5.1	63	0.3	0.2	0.4	137	0.86
N255253	Drill Core	8.13	3	1.2	89.1	17.6	91	<0.1	8.6	18.1	225	5.34	1	2.9	4.9	37	0.6	0.2	0.5	138	0.39
N255254	Drill Core	8.55	3	2.6	70.0	14.0	79	<0.1	7.8	18.4	98	5.34	1	2.6	4.6	99	0.6	0.2	0.6	144	0.36
N255255	Drill Core	7.95	3	5.3	50.0	15.2	41	0.1	8.2	17.4	54	5.04	<1	2.4	4.9	216	0.4	0.3	0.7	144	0.43
N255256	Drill Core	3.85	5	4.3	83.6	19.0	30	<0.1	7.0	16.7	50	5.13	2	2.5	4.2	382	0.4	0.4	1.0	165	0.33
N255258	Drill Core	7.74	4	5.3	88.3	19.4	73	0.1	8.0	16.7	59	5.21	1	3.0	3.8	180	0.5	0.4	1.0	149	0.31
N255259	Drill Core	8.59	4	7.3	71.9	13.5	159	<0.1	7.9	20.3	63	5.30	<1	2.3	2.8	130	0.8	0.1	1.0	172	0.30
N255260	Drill Core	8.30	3	6.3	124.4	15.4	191	<0.1	16.8	22.0	71	6.37	<1	2.2	3.0	109	0.6	0.2	0.7	185	0.30
N255261	Drill Core	8.21	3	15.0	171.8	14.8	203	<0.1	9.8	20.9	54	6.20	8	2.0	2.6	194	0.8	0.3	0.6	171	0.28
N255262	Drill Core	7.68	4	36.8	105.1	24.2	193	0.1	8.0	23.1	32	5.87	2	1.6	3.3	639	1.0	0.3	1.1	225	0.27
N255263	Rock Pulp	0.06	186	315.0	1556.9	18.9	51	10.9	12.9	7.3	620	3.01	11	0.7	1.4	349	0.1	26.8	1.7	69	2.23
N255264	Drill Core	7.78	5	13.6	103.6	39.8	149	<0.1	9.5	27.0	22	6.94	2	1.6	3.7	710	0.6	0.5	1.2	224	0.60
N255265	Drill Core	8.93	3	4.4	58.2	11.8	407	<0.1	9.0	25.9	26	6.14	<1	1.2	2.5	324	1.3	0.2	0.7	206	0.76
N255266	Drill Core	7.53	2	2.8	76.1	8.5	130	0.1	10.1	26.5	415	6.51	<1	1.4	3.1	106	0.7	0.1	0.5	217	0.63
N255267	Drill Core	7.85	2	1.5	56.6	4.4	73	<0.1	7.6	22.0	2591	5.33	<1	1.1	2.6	190	0.3	0.1	0.2	195	3.11
N255268	Drill Core	6.69	2	2.4	67.5	4.5	81	0.2	9.6	24.3	1419	5.62	2	1.1	2.4	252	0.5	0.2	0.2	203	2.42
N255269	Drill Core	2.19	<2	0.1	1.2	0.4	2	<0.1	1.2	0.8	128	0.11	1	0.1	0.1	79	<0.1	<0.1	<0.1	1	32.74
N255270	Drill Core	9.05	2	2.1	54.6	4.2	58	<0.1	9.4	23.1	1743	5.55	8	1.2	2.6	180	0.1	0.4	0.1	198	2.63
N255271	Drill Core	2.67	<2	6.0	69.0	4.6	90	1.5	8.2	24.8	1657	5.33	4	1.2	2.6	248	0.3	0.3	0.1	209	2.63
N255272	Drill Core	4.36	<2	2.5	53.0	3.6	83	<0.1	8.5	24.4	1992	5.15	3	1.3	2.7	217	0.5	0.2	0.1	203	3.11
N255273	Drill Core	2.09	<2	1.9	55.2	9.0	78	<0.1	9.0	24.1	1090	5.76	<1	1.1	2.2	79	0.5	0.2	0.4	207	1.34
N255275	Drill Core	4.47	2	1.8	57.8	10.4	98	<0.1	9.8	25.6	857	6.22	<1	1.2	1.9	56	0.6	0.2	0.5	226	0.61
N256686	Drill Core	3.55	7	24.7	191.5	33.1	5	<0.1	13.8	20.6	14	6.78	24	1.9	4.3	878	<0.1	0.5	0.7	240	0.10
N256694	Drill Core	3.53	20	30.2	76.5	15.5	<1	<0.1	17.6	19.5	26	3.93	1	0.4	0.9	248	<0.1	0.9	2.2	31	0.02
N255186	Drill Core	3.04	12	3.8	108.5	13.0	41	<0.1	13.3	22.1	199	5.71	5	2.0	3.3	91	0.4	0.2	0.4	141	0.79
N256663	Drill Core	3.15	7	4.9	48.8	18.9	5	0.2	2.4	2.9	14	5.52	21	1.1	4.9	1912	<0.1	1.2	5.8	151	0.11



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Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255248	Drill Core	0.079	14.9	9	1.83	44	0.320	7.93	1.509	2.36	0.7	154.0	35	1.6	23.1	6.9	0.6	<1	15	4.4	4.8
N255249	Drill Core	0.080	14.2	8	1.88	39	0.298	7.75	1.420	2.41	0.4	147.1	33	1.7	22.7	6.8	0.6	2	14	4.6	5.0
N255250	Drill Core	0.080	14.5	9	1.91	44	0.308	7.31	1.116	2.41	0.6	153.1	34	1.8	22.9	7.1	0.5	2	14	4.9	5.0
N255251	Rock	0.006	1.2	<1	1.88	14	0.006	0.08	0.024	0.02	<0.1	1.4	<1	0.1	2.2	0.2	<0.1	<1	<1	0.9	<0.1
N255252	Drill Core	0.081	14.1	8	1.73	34	0.333	7.16	0.186	2.27	0.6	163.0	33	1.8	22.6	7.5	0.6	1	14	6.2	5.4
N255253	Drill Core	0.088	11.6	7	0.63	24	0.326	8.14	0.079	2.64	0.5	162.2	28	2.4	41.3	7.9	0.5	<1	18	4.7	6.0
N255254	Drill Core	0.080	11.5	8	0.27	21	0.250	8.65	0.065	1.57	0.5	158.8	31	2.8	42.6	5.9	0.5	1	20	6.0	6.0
N255255	Drill Core	0.095	13.2	7	0.16	20	0.223	8.30	0.070	1.15	0.9	148.7	36	3.6	18.0	6.0	0.5	<1	16	6.8	5.7
N255256	Drill Core	0.106	13.6	9	0.13	20	0.297	7.97	0.082	1.04	0.5	139.1	40	6.6	16.1	7.4	0.5	<1	19	7.5	5.8
N255258	Drill Core	0.068	8.3	9	0.29	18	0.307	7.48	0.152	2.26	0.9	170.6	26	6.1	20.7	8.1	0.6	<1	22	2.9	5.9
N255259	Drill Core	0.069	6.2	8	0.34	19	0.324	7.88	0.190	2.21	0.6	135.8	22	4.6	14.5	7.8	0.5	<1	26	3.4	6.0
N255260	Drill Core	0.052	10.7	21	0.31	22	0.301	8.29	0.134	1.98	0.4	101.7	31	2.8	52.9	5.2	0.3	2	34	4.0	7.2
N255261	Drill Core	0.067	7.7	9	0.27	23	0.255	8.18	0.139	1.99	0.6	88.7	24	3.3	44.7	5.0	0.3	1	26	3.6	7.0
N255262	Drill Core	0.097	11.3	9	0.13	35	0.389	9.79	0.110	0.99	1.1	79.5	30	6.6	11.0	6.0	0.4	<1	25	8.1	6.7
N255263	Rock Pulp	0.046	6.5	14	0.70	592	0.157	5.56	1.772	1.54	1.4	8.4	15	2.5	8.7	2.0	0.1	<1	8	6.3	0.2
N255264	Drill Core	0.091	12.6	8	0.02	21	0.323	8.73	0.032	0.08	0.9	86.6	31	5.8	8.7	5.4	0.4	<1	18	9.2	8.1
N255265	Drill Core	0.083	8.5	6	0.12	27	0.342	7.71	0.099	0.73	0.4	66.0	21	3.5	12.3	5.7	0.4	<1	22	6.3	7.4
N255266	Drill Core	0.090	8.5	7	1.50	24	0.383	8.37	0.187	1.38	0.4	93.3	21	3.2	26.8	6.1	0.4	1	29	8.3	7.4
N255267	Drill Core	0.095	11.1	8	2.76	29	0.414	7.66	1.235	1.55	0.3	99.8	26	1.1	20.2	6.3	0.4	1	22	7.9	5.5
N255268	Drill Core	0.096	7.9	11	2.98	51	0.445	7.68	1.715	1.53	1.1	105.5	20	1.0	16.4	6.4	0.5	1	23	8.5	4.9
N255269	Drill Core	0.008	1.1	<1	2.20	23	0.005	0.14	0.047	0.04	<0.1	2.1	1	<0.1	2.3	0.2	<0.1	<1	<1	0.7	<0.1
N255270	Drill Core	0.090	9.2	9	3.05	46	0.459	7.70	1.070	2.45	0.5	104.5	24	1.5	21.2	7.0	0.4	<1	23	8.5	4.7
N255271	Drill Core	0.100	9.0	11	3.15	51	0.482	7.82	1.627	1.72	14.6	110.4	23	1.1	20.0	7.1	0.4	1	23	8.2	4.0
N255272	Drill Core	0.094	11.0	9	3.22	44	0.473	7.97	1.315	1.69	0.7	107.7	26	0.9	19.5	7.2	0.4	<1	23	6.8	4.1
N255273	Drill Core	0.088	8.1	7	3.22	30	0.400	7.28	0.116	1.72	0.3	85.7	19	1.6	13.2	6.2	0.4	<1	22	8.5	6.6
N255275	Drill Core	0.105	4.9	7	2.70	19	0.427	7.56	0.124	1.48	0.5	84.0	13	1.5	13.7	6.4	0.4	<1	20	8.5	7.2
N256686	Drill Core	0.115	15.2	22	<0.01	19	0.438	9.19	0.012	0.03	0.8	76.9	35	6.8	5.1	6.8	0.4	<1	10	3.7	7.4
N256694	Drill Core	0.029	5.7	11	<0.01	13	0.185	1.64	0.008	<0.01	0.5	30.4	13	3.1	1.1	2.1	0.1	<1	2	4.5	4.3
N255186	Drill Core	0.085	11.0	17	0.69	22	0.417	7.42	0.064	2.09	0.8	96.3	32	3.3	21.2	6.8	0.5	<1	18	4.0	4.7
N256663	Drill Core	0.177	19.4	17	<0.01	61	0.305	4.18	0.020	0.04	0.2	67.7	43	2.9	5.2	3.7	0.2	<1	10	2.2	1.6



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255248	Drill Core	59.5	4.2	0.20	0.008	16	<0.5	1.4
N255249	Drill Core	56.8	4.0	0.21	<0.005	13	<0.5	1.1
N255250	Drill Core	59.6	3.9	0.17	0.012	14	<0.5	1.4
N255251	Rock	0.4	<0.1	<0.05	<0.005	<1	1.6	<0.5
N255252	Drill Core	52.1	4.3	0.17	0.014	8	<0.5	1.5
N255253	Drill Core	67.9	4.3	0.21	<0.005	9	<0.5	2.0
N255254	Drill Core	42.1	4.5	0.16	<0.005	12	<0.5	1.3
N255255	Drill Core	29.2	3.6	0.22	0.053	17	<0.5	1.4
N255256	Drill Core	24.1	3.7	<0.05	0.099	25	<0.5	1.2
N255258	Drill Core	57.1	4.5	0.29	0.069	29	<0.5	3.5
N255259	Drill Core	56.5	3.6	0.58	0.080	26	<0.5	3.0
N255260	Drill Core	50.4	3.0	0.34	0.036	25	0.5	3.2
N255261	Drill Core	48.1	2.5	0.29	0.073	16	0.8	2.2
N255262	Drill Core	23.2	2.3	0.37	0.470	36	<0.5	1.1
N255263	Rock Pulp	27.7	0.5	0.08	0.372	<1	<0.5	<0.5
N255264	Drill Core	1.3	2.4	0.36	0.223	41	0.6	<0.5
N255265	Drill Core	17.5	1.6	0.66	0.023	29	0.6	1.2
N255266	Drill Core	36.7	2.4	0.21	0.007	22	1.1	1.3
N255267	Drill Core	29.2	2.8	0.10	0.005	18	1.9	0.8
N255268	Drill Core	22.4	2.8	0.10	0.005	16	2.2	0.6
N255269	Drill Core	1.2	<0.1	<0.05	<0.005	<1	1.5	<0.5
N255270	Drill Core	41.2	3.0	<0.05	<0.005	9	3.3	0.9
N255271	Drill Core	24.9	2.8	0.08	0.007	10	2.2	0.6
N255272	Drill Core	31.8	3.3	<0.05	<0.005	7	1.8	1.0
N255273	Drill Core	29.1	2.4	0.15	<0.005	20	<0.5	1.7
N255275	Drill Core	20.6	2.4	0.16	<0.005	20	0.8	1.7
N256686	Drill Core	0.2	2.1	0.27	0.302	9	1.9	<0.5
N256694	Drill Core	0.3	0.8	0.07	0.290	18	1.1	<0.5
N255186	Drill Core	52.9	2.8	0.13	<0.005	3	0.9	1.4
N256663	Drill Core	0.4	1.7	<0.05	0.010	21	4.3	2.5



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255210	Drill Core	3.16	3	5.1	105.6	5.9	108	<0.1	10.4	21.8	627	5.75	3	1.8	2.5	146	0.5	0.2	<0.1	187	0.87
N255173	Drill Core	3.95	9	70.1	119.4	12.3	32	<0.1	12.1	21.7	691	3.81	5	1.1	2.3	94	0.1	0.3	<0.1	100	3.36
N255276	Drill Core	4.32	3	3.1	78.8	10.6	57	0.2	8.5	19.7	76	5.53	4	2.0	3.7	152	0.4	0.5	0.6	147	0.34
N255277	Drill Core	4.41	2	3.1	60.5	12.3	55	<0.1	8.7	18.7	76	5.27	2	2.0	2.8	77	0.4	0.2	0.6	142	0.44
N255278	Drill Core	4.44	2	2.0	70.2	10.7	60	<0.1	9.8	20.0	86	5.27	5	2.1	3.5	64	0.3	0.1	0.7	144	0.39
N255279	Drill Core	4.16	3	2.6	64.6	10.2	74	<0.1	8.9	19.6	77	5.12	6	2.1	4.0	88	0.3	0.3	0.5	133	0.45
N255280	Drill Core	4.77	2	2.7	69.3	11.2	71	<0.1	8.3	18.1	141	4.85	8	2.2	3.9	92	0.3	0.3	0.7	127	1.29
N255281	Rock Pulp	0.06	609	322.8	3860.7	27.5	103	15.0	26.2	70.2	1398	4.61	1870	2.3	1.4	442	0.9	42.4	15.0	57	5.72
N255282	Drill Core	4.65	3	2.7	80.1	13.0	64	<0.1	9.1	20.2	139	5.22	7	2.0	4.0	95	0.2	0.3	0.5	143	0.44
N255283	Drill Core	4.20	5	2.0	69.8	9.0	54	<0.1	9.4	21.3	1154	5.37	5	1.8	4.3	111	0.1	0.2	0.4	182	1.29
N255284	Drill Core	4.36	3	2.4	85.3	7.5	63	<0.1	8.8	20.9	1301	5.13	<1	1.6	3.8	142	0.2	<0.1	0.3	167	1.87
N255285	Rock	2.51	<2	<0.1	1.0	0.4	3	<0.1	0.7	0.4	125	<0.01	1	0.1	0.1	82	<0.1	<0.1	<0.1	<1	33.06
N255286	Drill Core	4.56	5	2.8	94.3	4.4	66	<0.1	10.1	21.1	1356	5.05	<1	2.0	4.6	222	0.2	<0.1	0.1	167	2.27
N255287	Drill Core	4.28	4	2.2	106.8	3.8	63	<0.1	8.4	20.1	1137	4.93	1	2.2	4.8	245	<0.1	<0.1	0.1	171	2.48
N255288	Drill Core	4.66	3	1.8	77.2	4.2	67	<0.1	7.5	19.0	1183	5.03	2	2.1	4.5	228	<0.1	<0.1	0.2	173	2.20
N255289	Drill Core	3.96	3	2.2	96.8	5.8	94	<0.1	7.9	19.3	1235	5.03	2	1.2	2.7	158	<0.1	0.1	0.1	165	2.34
N255290	Drill Core	3.84	3	2.8	83.1	6.0	64	<0.1	7.1	16.9	1033	4.71	4	2.8	6.0	266	<0.1	0.2	<0.1	154	3.08
N255291	Rock Pulp	0.06	195	392.1	1936.3	24.1	59	12.9	14.8	9.6	737	3.55	12	1.2	2.2	416	0.3	31.2	1.9	83	2.68
N255292	Drill Core	4.49	3	2.7	67.6	6.4	63	<0.1	7.6	18.0	2081	4.97	3	3.2	6.1	358	<0.1	0.2	<0.1	161	3.83
N255293	Drill Core	3.96	3	2.8	71.6	6.4	65	<0.1	7.4	17.5	1546	4.85	2	2.8	5.6	357	0.1	0.3	<0.1	153	3.64
N255294	Drill Core	4.63	3	2.7	71.0	5.9	54	<0.1	7.3	18.3	933	4.78	2	2.4	5.1	226	<0.1	0.3	<0.1	152	2.18
N255295	Drill Core	4.48	3	2.4	69.0	5.5	65	<0.1	9.4	19.3	1183	4.98	3	2.2	4.6	330	<0.1	0.2	<0.1	162	3.41



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255210	Drill Core	0.074	7.2	10	2.62	16	0.439	6.85	2.429	1.24	0.4	103.1	21	1.8	15.8	7.0	0.4	<1	18	10.3	6.3	
N255173	Drill Core	0.060	9.2	18	0.52	41	0.373	5.66	0.035	1.33	1.8	68.6	23	8.6	13.0	5.8	0.4	<1	10	6.4	2.8	
N255276	Drill Core	0.083	9.8	9	0.35	21	0.190	7.77	0.178	1.79	0.4	135.8	25	2.6	21.2	3.5	0.3	<1	20	4.3	6.4	
N255277	Drill Core	0.079	7.0	9	0.40	16	0.205	7.65	0.386	2.32	0.4	136.7	22	3.1	19.9	4.0	0.3	1	18	3.1	6.1	
N255278	Drill Core	0.060	9.2	7	0.55	15	0.190	7.71	0.390	2.00	0.3	133.2	25	2.1	23.2	3.7	0.3	2	20	2.8	6.0	
N255279	Drill Core	0.067	9.2	6	0.61	14	0.132	8.04	0.382	1.98	0.3	124.4	23	1.0	27.8	2.8	0.3	<1	19	2.2	5.9	
N255280	Drill Core	0.058	8.9	8	0.63	18	0.165	7.90	0.426	1.92	0.4	127.5	23	1.2	23.4	3.5	0.3	<1	18	2.3	6.3	
N255281	Rock Pulp	0.058	15.7	34	0.77	338	0.144	5.83	1.607	1.61	3.9	20.9	24	2.7	9.2	1.7	<0.1	<1	5	11.7	0.7	
N255282	Drill Core	0.058	12.0	8	0.52	16	0.205	7.91	0.185	1.64	0.4	116.5	28	1.2	29.6	3.4	0.3	<1	19	4.9	6.0	
N255283	Drill Core	0.062	11.8	9	2.48	23	0.305	7.52	0.458	0.97	0.3	93.4	29	0.9	21.5	4.3	0.3	1	22	5.8	5.4	
N255284	Drill Core	0.060	11.7	10	2.87	20	0.199	7.16	0.678	1.19	0.2	81.9	28	1.1	20.5	2.3	0.2	1	22	5.1	5.4	
N255285	Rock	0.007	1.5	1	1.59	29	0.005	0.11	0.050	0.05	<0.1	1.7	1	<0.1	2.8	0.2	<0.1	<1	<1	0.9	<0.1	
N255286	Drill Core	0.064	13.3	13	2.68	36	0.330	7.63	1.391	1.34	0.4	90.6	31	0.8	24.2	4.6	0.4	<1	21	4.4	4.0	
N255287	Drill Core	0.070	13.6	10	2.59	30	0.434	7.86	1.609	1.78	0.4	110.6	31	1.3	25.1	7.2	0.5	<1	19	5.2	4.2	
N255288	Drill Core	0.071	14.0	10	2.57	34	0.428	7.53	1.463	2.27	0.3	101.8	32	1.4	25.5	7.2	0.5	1	20	4.8	3.9	
N255289	Drill Core	0.094	11.8	9	3.32	27	0.412	7.27	0.932	1.53	0.3	78.2	27	1.6	21.2	6.2	0.4	<1	17	7.2	4.7	
N255290	Drill Core	0.080	18.0	9	1.93	39	0.448	7.89	1.534	1.89	0.6	166.5	40	1.1	29.7	8.4	0.6	1	18	4.5	3.9	
N255291	Rock Pulp	0.049	10.1	19	0.87	700	0.190	6.85	2.134	1.78	1.5	9.0	22	2.4	12.6	2.4	0.1	1	9	7.5	0.3	
N255292	Drill Core	0.077	18.9	9	2.02	670	0.443	7.97	1.943	1.72	0.6	166.7	41	1.2	28.3	8.4	0.5	<1	20	3.1	0.9	
N255293	Drill Core	0.078	16.7	10	1.92	196	0.439	7.82	2.039	1.69	0.6	165.5	37	1.5	27.8	8.3	0.5	<1	18	3.8	1.7	
N255294	Drill Core	0.073	15.0	10	1.99	24	0.417	7.40	2.299	2.20	0.5	156.3	33	1.8	25.6	7.9	0.5	<1	18	5.2	4.5	
N255295	Drill Core	0.077	15.8	11	1.99	56	0.429	7.78	2.121	1.80	0.5	137.6	35	1.1	23.5	7.6	0.5	1	19	4.3	3.3	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255210	Drill Core	34.0	2.7	0.52	0.006	4	0.6	<0.5
N255173	Drill Core	31.4	2.3	0.29	0.270	17	0.5	0.7
N255276	Drill Core	43.6	3.7	0.12	<0.005	17	<0.5	2.3
N255277	Drill Core	60.9	3.6	0.15	<0.005	19	<0.5	2.8
N255278	Drill Core	48.2	3.8	0.21	<0.005	18	<0.5	2.1
N255279	Drill Core	57.2	3.5	0.17	<0.005	13	0.6	1.7
N255280	Drill Core	53.0	3.4	0.07	<0.005	11	0.9	1.6
N255281	Rock Pulp	35.7	0.7	0.17	0.342	3	2.8	<0.5
N255282	Drill Core	42.9	3.0	0.08	<0.005	15	0.9	1.3
N255283	Drill Core	26.0	2.5	<0.05	<0.005	13	0.9	0.7
N255284	Drill Core	24.9	2.2	0.08	0.011	10	0.5	0.7
N255285	Rock	1.5	<0.1	<0.05	<0.005	<1	4.2	<0.5
N255286	Drill Core	31.7	2.5	0.06	0.014	13	0.8	<0.5
N255287	Drill Core	48.2	3.1	0.09	0.007	9	1.1	<0.5
N255288	Drill Core	60.1	3.0	0.12	0.008	8	1.3	0.6
N255289	Drill Core	31.3	2.1	0.15	0.010	8	0.7	<0.5
N255290	Drill Core	61.2	5.0	<0.05	<0.005	3	0.9	<0.5
N255291	Rock Pulp	39.5	0.5	<0.05	0.414	<1	1.4	<0.5
N255292	Drill Core	40.0	4.7	0.06	<0.005	1	0.8	<0.5
N255293	Drill Core	38.3	4.5	<0.05	<0.005	1	0.7	<0.5
N255294	Drill Core	63.9	4.4	<0.05	<0.005	8	0.8	0.5
N255295	Drill Core	43.9	4.0	0.07	<0.005	5	0.6	<0.5



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QUALITY CONTROL REPORT

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255226	Drill Core	8.57	3	2.1	68.1	4.2	51	<0.1	6.0	17.9	681	5.06	3	1.9	4.1	178	0.1	0.1	0.1	145	3.67
REP N255226	QC	3																			
N255246	Drill Core	8.01	3	15.7	81.7	9.8	67	0.1	7.3	17.1	813	4.85	<1	2.5	5.3	167	0.2	0.3	0.2	132	2.02
REP N255246	QC	16.9 84.4 10.5 68 0.1 6.9 17.7 891 4.77 <1 2.6 5.4 170 0.3 0.3 0.2 135 2.23																			
REP N255252	QC	3.3 87.3 16.6 81 <0.1 7.5 18.5 620 4.80 2 2.7 5.2 65 0.4 0.2 0.3 134 0.86																			
N255261	Drill Core	8.21	3	15.0	171.8	14.8	203	<0.1	9.8	20.9	54	6.20	8	2.0	2.6	194	0.8	0.3	0.6	171	0.28
REP N255261	QC	2																			
N255277	Drill Core	4.41	2	3.1	60.5	12.3	55	<0.1	8.7	18.7	76	5.27	2	2.0	2.8	77	0.4	0.2	0.6	142	0.44
REP N255277	QC	3.2 61.1 12.8 57 <0.1 8.7 17.5 79 5.38 3 2.1 2.9 75 <0.1 0.2 0.6 146 0.45																			
N255285	Rock	2.51	<2	<0.1	1.0	0.4	3	<0.1	0.7	0.4	125	<0.01	1	0.1	0.1	82	<0.1	<0.1	<0.1	<1	33.06
REP N255285	QC	<2																			
N255295	Drill Core	4.48	3	2.4	69.0	5.5	65	<0.1	9.4	19.3	1183	4.98	3	2.2	4.6	330	<0.1	0.2	<0.1	162	3.41
REP N255295	QC	2.4 69.5 5.5 64 <0.1 8.3 19.9 1166 4.94 2 2.3 4.7 336 <0.1 0.2 <0.1 160 3.38																			
Core Reject Duplicates																					
N255217	Drill Core	7.52	4	1.5	123.8	5.8	87	0.1	8.1	18.6	818	5.28	3	1.5	3.4	214	0.1	<0.1	<0.1	161	2.63
DUP N255217	QC	4 1.4 127.2 6.1 95 <0.1 9.2 20.8 833 5.33 2 1.7 3.5 226 0.1 0.2 <0.1 166 2.61																			
N255252	Drill Core	7.08	2	3.3	85.0	16.5	77	<0.1	7.6	17.4	594	4.80	2	2.6	5.1	63	0.3	0.2	0.4	137	0.86
DUP N255252	QC	<2 2.8 90.0 16.8 78 <0.1 8.5 18.6 632 4.85 2 2.6 5.0 62 0.2 0.2 0.4 137 0.85																			
N255282	Drill Core	4.65	3	2.7	80.1	13.0	64	<0.1	9.1	20.2	139	5.22	7	2.0	4.0	95	0.2	0.3	0.5	143	0.44
DUP N255282	QC	2 2.6 76.2 12.5 65 <0.1 8.9 19.3 140 5.22 6 2.0 4.3 104 0.1 0.3 0.5 144 0.48																			
Reference Materials																					
STD OREAS25A-4A	Standard	2.7 35.9 23.2 40 0.3 42.6 8.1 506 6.60 9 2.6 14.1 47 <0.1 0.6 0.4 158 0.31																			
STD OREAS25A-4A	Standard	2.6 35.0 24.8 44 <0.1 46.2 7.6 500 6.60 9 2.9 15.9 50 <0.1 0.5 0.5 167 0.28																			
STD OREAS25A-4A	Standard	2.2 31.0 23.8 39 <0.1 42.1 7.3 513 6.58 10 2.8 16.8 52 <0.1 0.6 0.3 164 0.31																			
STD OREAS45E	Standard	2.8 813.5 18.1 43 0.3 505.6 58.9 605 24.31 18 2.4 13.0 17 <0.1 1.3 0.3 357 0.08																			
STD OREAS45E	Standard	2.1 769.2 17.5 49 0.3 480.4 56.6 623 25.57 17 2.4 12.7 17 <0.1 1.1 0.3 327 0.08																			
STD OREAS45E	Standard	2.5 792.0 18.3 46 0.3 470.5 58.7 564 24.08 17 2.5 13.3 18 <0.1 1.2 0.4 327 0.07																			
STD OREAS45E	Standard	2.4 770.1 18.2 46 0.3 470.8 61.0 566 23.49 16 2.5 13.1 17 <0.1 0.9 0.3 325 0.06																			



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255226	Drill Core	0.069	11.6	7	1.24	32	0.434	7.12	0.933	1.75	0.6	112.7	27	1.2	20.2	8.2	0.5	<1	17	5.1	4.3
REP N255226	QC																				
N255246	Drill Core	0.076	12.8	7	1.73	19	0.287	7.63	1.332	2.04	0.6	158.9	32	2.0	23.6	7.0	0.5	<1	16	4.3	5.1
REP N255246	QC	0.086	13.1	7	1.78	27	0.306	8.30	1.333	2.12	0.9	163.9	33	2.4	24.2	7.1	0.6	<1	18	4.2	5.0
REP N255252	QC	0.080	12.9	9	1.73	38	0.321	7.21	0.188	2.26	0.6	173.4	31	1.9	23.1	7.7	0.5	1	14	5.8	5.4
N255261	Drill Core	0.067	7.7	9	0.27	23	0.255	8.18	0.139	1.99	0.6	88.7	24	3.3	44.7	5.0	0.3	1	26	3.6	7.0
REP N255261	QC																				
N255277	Drill Core	0.079	7.0	9	0.40	16	0.205	7.65	0.386	2.32	0.4	136.7	22	3.1	19.9	4.0	0.3	1	18	3.1	6.1
REP N255277	QC	0.086	7.0	9	0.41	23	0.211	7.85	0.402	2.39	0.5	135.5	21	2.8	20.7	4.3	0.4	1	19	3.1	6.2
N255285	Rock	0.007	1.5	1	1.59	29	0.005	0.11	0.050	0.05	<0.1	1.7	1	<0.1	2.8	0.2	<0.1	<1	<1	0.9	<0.1
REP N255285	QC																				
N255295	Drill Core	0.077	15.8	11	1.99	56	0.429	7.78	2.121	1.80	0.5	137.6	35	1.1	23.5	7.6	0.5	1	19	4.3	3.3
REP N255295	QC	0.074	15.6	10	1.95	43	0.430	7.74	2.113	1.83	0.5	137.9	34	1.1	24.5	7.7	0.5	1	19	4.4	3.3
Core Reject Duplicates																					
N255217	Drill Core	0.066	8.5	10	2.26	20	0.390	7.21	2.032	1.50	0.3	68.8	22	1.3	19.4	6.1	0.4	<1	20	8.0	4.8
DUP N255217	QC	0.070	9.3	10	2.34	21	0.409	7.45	2.090	1.54	0.2	73.6	23	1.0	21.4	6.4	0.4	<1	22	8.4	4.9
N255252	Drill Core	0.081	14.1	8	1.73	34	0.333	7.16	0.186	2.27	0.6	163.0	33	1.8	22.6	7.5	0.6	1	14	6.2	5.4
DUP N255252	QC	0.081	13.4	10	1.75	40	0.334	7.21	0.188	2.28	0.6	165.4	32	1.9	22.8	7.6	0.6	2	14	5.1	5.5
N255282	Drill Core	0.058	12.0	8	0.52	16	0.205	7.91	0.185	1.64	0.4	116.5	28	1.2	29.6	3.4	0.3	<1	19	4.9	6.0
DUP N255282	QC	0.057	12.9	7	0.52	13	0.187	7.89	0.179	1.59	0.3	109.9	30	1.0	31.8	3.1	0.2	1	20	4.0	6.0
Reference Materials																					
STD OREAS25A-4A	Standard	0.054	18.5	108	0.34	148	0.930	8.81	0.120	0.50	1.7	145.9	43	4.2	9.2	18.3	1.3	<1	12	36.2	<0.1
STD OREAS25A-4A	Standard	0.048	22.6	108	0.32	151	0.950	9.43	0.119	0.48	2.1	154.1	49	4.0	11.4	20.5	1.5	<1	12	36.6	<0.1
STD OREAS25A-4A	Standard	0.048	25.9	113	0.32	146	0.929	9.11	0.114	0.46	1.8	143.3	55	3.7	11.5	18.6	1.3	<1	13	35.8	<0.1
STD OREAS45E	Standard	0.035	10.8	1084	0.17	267	0.554	7.20	0.060	0.34	1.0	98.8	24	1.7	7.7	6.1	0.5	<1	95	7.2	<0.1
STD OREAS45E	Standard	0.034	9.9	1001	0.17	263	0.541	6.68	0.057	0.35	1.0	98.6	23	1.4	7.5	6.2	0.6	<1	99	7.6	<0.1
STD OREAS45E	Standard	0.033	11.6	966	0.15	257	0.548	7.00	0.052	0.33	0.9	96.8	26	1.3	8.4	6.4	0.6	<1	87	7.3	<0.1
STD OREAS45E	Standard	0.032	12.0	973	0.14	250	0.508	6.87	0.052	0.31	0.9	90.0	25	1.2	8.0	6.0	0.5	1	83	6.3	<0.1



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Project: Pemberton

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QUALITY CONTROL REPORT

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Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255226	Drill Core	46.6	3.1	0.12	<0.005	6	0.9	0.5
REP N255226	QC							
N255246	Drill Core	63.9	4.0	<0.05	0.097	12	<0.5	1.0
REP N255246	QC	61.5	4.1	0.10	0.117	13	<0.5	1.0
REP N255252	QC	45.6	4.6	0.17	0.010	10	<0.5	1.6
N255261	Drill Core	48.1	2.5	0.29	0.073	16	0.8	2.2
REP N255261	QC							
N255277	Drill Core	60.9	3.6	0.15	<0.005	19	<0.5	2.8
REP N255277	QC	60.4	4.0	0.26	<0.005	18	<0.5	2.9
N255285	Rock	1.5	<0.1	<0.05	<0.005	<1	4.2	<0.5
REP N255285	QC							
N255295	Drill Core	43.9	4.0	0.07	<0.005	5	0.6	<0.5
REP N255295	QC	44.0	3.9	<0.05	<0.005	3	<0.5	<0.5
Core Reject Duplicates								
N255217	Drill Core	30.2	1.9	0.16	0.006	4	1.4	<0.5
DUP N255217	QC	30.8	2.1	0.07	0.006	7	1.0	<0.5
N255252	Drill Core	52.1	4.3	0.17	0.014	8	<0.5	1.5
DUP N255252	QC	47.7	4.4	0.15	0.011	8	<0.5	1.7
N255282	Drill Core	42.9	3.0	0.08	<0.005	15	0.9	1.3
DUP N255282	QC	43.3	2.9	<0.05	<0.005	13	0.8	1.3
Reference Materials								
STD OREAS25A-4A	Standard	56.6	4.0	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	58.2	4.4	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	64.3	3.9	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.6	2.7	<0.05	<0.005	5	<0.5	<0.5
STD OREAS45E	Standard	21.3	3.1	0.27	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	21.4	3.1	<0.05	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.7	2.9	0.07	<0.005	1	<0.5	<0.5



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXC145	Standard		210																		
STD OXC145	Standard		215																		
STD OXC145	Standard		206																		
STD OXH139	Standard		1276																		
STD OXH139	Standard		1267																		
STD OXH139	Standard		1259																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	0.02	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
Prep Wash																					
ROCK-VAN	Prep Blank		3	1.0	7.7	7.2	62	<0.1	0.7	4.0	673	2.27	2	1.1	2.6	226	<0.1	0.1	<0.1	38	1.80
ROCK-VAN	Prep Blank		2	0.9	7.3	7.3	65	<0.1	0.8	4.2	667	2.22	2	1.1	2.5	220	0.2	0.2	0.1	38	1.82



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
STD OXC145 Expected																						
STD OXH139 Expected																						
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	0.002	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	0.03	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
ROCK-VAN	Prep Blank	0.041	12.5	2	0.51	780	0.208	7.06	3.346	1.75	0.3	52.1	24	0.7	16.1	5.4	0.3	1	8	3.0	<0.1	
ROCK-VAN	Prep Blank	0.048	11.0	2	0.50	749	0.207	6.89	3.399	1.70	0.2	48.4	23	0.9	15.5	5.6	0.4	2	7	2.9	<0.1	



Bureau Veritas Commodities Canada Ltd.

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15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: November 29, 2018

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QUALITY CONTROL REPORT

VAN18003150.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXC145 Expected								
STD OXH139 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	32.9	1.5	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	29.9	1.6	0.05	<0.005	<1	<0.5	<0.5



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PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

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Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: November 09, 2018

Report Date: November 28, 2018

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CERTIFICATE OF ANALYSIS

VAN18003241.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC: Michael McClintock

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	75	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	5	Sort, label and box pulps			VAN
FA350-Au	80	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	80	Environmental disposal charge-Fire assay lead waste			VAN
MA200	80	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
MDL		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
N255296	Drill Core	4.77	4	1.5	67.8	4.8	71	<0.1	10.9	19.7	957	5.39	<1	1.4	3.2	266	0.2	0.1	<0.1	174	3.30	
N255297	Drill Core	1.92	2	1.4	67.2	4.0	64	<0.1	10.5	19.4	1464	5.40	1	1.6	3.6	356	0.1	<0.1	<0.1	175	4.16	
N255299	Drill Core	4.28	2	2.4	66.3	5.5	64	<0.1	10.1	20.6	1215	5.35	2	1.4	3.4	355	<0.1	<0.1	<0.1	176	4.11	
N255300	Drill Core	4.46	3	1.6	70.1	4.5	64	<0.1	10.3	21.1	1367	5.21	<1	1.4	3.1	317	<0.1	<0.1	<0.1	171	3.65	
N255301	Drill Core	4.26	3	1.5	81.1	3.8	66	<0.1	10.1	21.2	1450	5.29	<1	1.5	3.4	297	<0.1	<0.1	<0.1	174	2.94	
N255302	Drill Core	4.17	4	2.6	75.4	4.4	65	<0.1	10.5	19.1	1300	5.10	<1	1.6	3.6	313	<0.1	<0.1	<0.1	160	3.65	
N255303	Rock Pulp	0.06	590	325.3	3815.3	26.3	106	15.3	25.8	69.8	1469	4.68	1868	2.1	1.3	429	0.8	43.6	14.6	57	5.78	
N255304	Drill Core	4.39	4	5.3	50.7	7.7	93	<0.1	9.8	21.0	2196	5.91	<1	1.0	2.2	396	0.4	<0.1	<0.1	191	3.11	
N255305	Drill Core	4.36	4	2.3	55.8	7.0	105	<0.1	9.9	21.5	2426	5.88	2	1.0	2.1	373	0.3	<0.1	<0.1	187	3.10	
N255306	Drill Core	5.26	4	2.0	52.3	7.5	107	<0.1	9.4	19.7	1821	5.44	2	0.7	1.8	276	0.2	<0.1	<0.1	177	3.79	
N255307	Drill Core	4.49	4	2.0	60.1	8.3	86	<0.1	10.2	19.5	1834	5.60	2	0.6	1.6	299	0.1	<0.1	<0.1	171	3.45	
N255308	Drill Core	4.42	4	12.3	60.6	10.8	85	<0.1	9.8	20.6	1780	5.79	3	0.8	1.6	249	0.3	<0.1	0.3	187	2.40	
N255309	Drill Core	3.77	3	6.1	82.9	11.7	66	<0.1	9.0	19.1	870	5.21	2	1.8	3.6	100	<0.1	0.1	0.3	148	1.15	
N255310	Rock	1.84	3	<0.1	3.1	0.6	5	<0.1	0.3	0.3	119	0.12	3	<0.1	<0.1	77	<0.1	<0.1	<0.1	5	33.14	
N255311	Drill Core	4.13	<2	4.4	78.4	9.0	65	<0.1	8.6	19.2	1177	5.16	2	2.2	4.6	96	<0.1	0.2	0.3	153	1.73	
N255312	Drill Core	4.64	2	3.1	79.2	10.0	60	<0.1	8.2	19.6	935	5.16	2	2.2	4.1	93	<0.1	0.1	0.4	151	1.53	
N255313	Drill Core	4.42	<2	2.1	81.3	11.9	73	<0.1	9.9	20.2	833	5.36	2	2.2	3.9	66	0.1	0.2	0.4	159	1.09	
N255314	Drill Core	2.36	4	1.5	94.7	9.7	106	<0.1	17.2	32.2	1668	6.47	4	2.0	3.0	78	0.3	0.3	0.2	166	1.06	
N255316	Drill Core	4.04	5	19.3	73.2	7.2	123	<0.1	18.7	37.1	2330	6.73	4	1.5	2.3	66	0.3	0.2	0.2	165	1.12	
N255317	Drill Core	4.42	4	2.4	85.2	7.3	93	<0.1	7.4	18.6	1273	6.79	3	1.2	1.9	131	0.3	0.3	0.2	175	1.38	
N255318	Drill Core	4.99	3	3.2	89.1	5.8	100	<0.1	7.1	20.2	752	6.21	4	1.3	2.2	226	0.3	0.2	0.2	195	1.78	
N255319	Drill Core	4.61	4	1.9	96.1	5.1	104	<0.1	10.1	21.7	1940	5.28	3	1.6	3.2	179	0.1	0.2	0.2	187	2.47	
N255320	Rock Pulp	0.05	212	370.5	1838.3	23.5	58	12.7	14.9	9.6	728	3.56	11	0.9	1.7	399	0.4	32.5	1.8	82	2.68	
N255321	Drill Core	4.30	3	1.2	85.4	4.8	62	<0.1	10.4	21.8	876	5.46	<1	1.6	2.7	72	0.1	0.1	0.3	174	1.35	
N255322	Drill Core	3.94	2	2.3	84.9	5.1	58	<0.1	10.6	21.0	712	5.47	<1	1.9	3.3	71	0.1	0.3	0.4	179	0.90	
N255323	Drill Core	4.47	3	13.1	78.8	6.3	71	<0.1	9.1	19.0	673	5.46	<1	1.8	4.3	130	<0.1	0.3	0.4	182	0.59	
N255324	Drill Core	4.70	<2	2.5	70.0	15.9	96	<0.1	10.6	27.4	159	6.66	5	1.4	2.6	164	0.7	0.3	1.0	245	0.51	
N255325	Drill Core	3.78	3	3.3	82.9	5.8	83	<0.1	10.6	21.7	1754	5.27	2	1.7	3.2	145	<0.1	0.3	0.2	182	2.21	
N255326	Rock	2.08	<2	<0.1	1.0	0.4	4	<0.1	0.9	0.3	125	0.12	<1	0.2	<0.1	78	<0.1	<0.1	<0.1	3	33.88	
N255327	Drill Core	3.58	2	3.3	85.8	5.6	70	<0.1	10.9	22.3	1218	5.49	<1	1.9	2.9	98	0.2	0.2	0.4	180	1.18	



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Project: Pemberton

Report Date: November 28, 2018

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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	1	0.1	1	1	0.1	0.1
N255296	Drill Core	0.078	10.0	12	1.87	36	0.437	7.69	1.791	1.82	0.4	115.7	24	1.5	19.3	7.2	0.5	<1	18	5.0	4.8
N255297	Drill Core	0.079	11.7	10	2.17	565	0.467	8.27	2.331	1.79	0.4	130.3	27	0.8	20.7	7.6	0.5	<1	18	4.4	0.8
N255299	Drill Core	0.079	11.3	11	2.01	580	0.468	8.22	2.258	1.82	0.5	128.4	26	1.0	20.1	7.7	0.5	1	17	4.0	0.9
N255300	Drill Core	0.078	10.9	11	2.19	385	0.466	7.99	2.149	1.83	0.5	128.4	26	0.9	19.1	7.4	0.5	<1	16	4.4	1.5
N255301	Drill Core	0.080	11.3	11	2.53	128	0.449	7.95	2.347	2.03	0.4	121.8	27	0.8	20.5	7.0	0.5	1	18	5.0	1.8
N255302	Drill Core	0.073	11.1	17	2.25	87	0.423	7.97	2.177	1.86	0.4	131.0	27	0.9	20.4	7.1	0.5	<1	18	3.5	3.7
N255303	Rock Pulp	0.062	14.7	32	0.75	566	0.145	5.97	1.622	1.65	5.0	20.3	22	2.7	8.5	1.6	<0.1	<1	5	11.7	0.6
N255304	Drill Core	0.121	14.6	10	3.12	390	0.478	8.69	2.279	1.09	0.2	75.2	32	1.4	20.9	6.2	0.4	1	18	4.0	2.1
N255305	Drill Core	0.119	14.1	9	3.37	190	0.468	8.66	2.051	0.73	0.1	72.2	30	1.1	21.3	6.3	0.4	<1	17	4.0	2.7
N255306	Drill Core	0.114	12.9	9	2.80	96	0.459	8.20	1.440	1.02	0.2	56.9	29	1.5	19.1	6.1	0.4	1	15	3.4	4.2
N255307	Drill Core	0.113	10.9	10	2.44	47	0.466	8.13	1.508	1.37	0.3	39.8	25	2.4	17.5	6.0	0.3	<1	16	2.6	4.2
N255308	Drill Core	0.115	9.1	9	2.57	31	0.437	7.64	1.211	1.56	0.5	48.0	23	2.8	17.5	5.4	0.3	1	15	3.2	4.3
N255309	Drill Core	0.079	10.6	6	2.14	20	0.256	7.09	0.624	1.72	0.4	109.5	26	1.8	17.2	4.5	0.3	<1	16	2.5	5.6
N255310	Rock	0.009	1.3	<1	1.42	17	0.017	0.12	0.047	0.02	<0.1	4.0	1	<0.1	2.4	0.2	<0.1	<1	<1	1.3	<0.1
N255311	Drill Core	0.073	14.6	7	2.20	175	0.278	7.14	0.570	1.88	0.3	121.1	33	1.8	19.7	4.8	0.3	<1	19	2.8	5.8
N255312	Drill Core	0.073	11.0	7	2.30	27	0.279	7.21	0.548	1.74	0.4	120.6	28	2.3	18.3	5.0	0.3	2	18	3.4	5.7
N255313	Drill Core	0.076	9.7	8	2.38	28	0.322	7.52	0.142	1.76	0.5	123.3	25	1.9	17.5	5.7	0.4	<1	18	4.0	5.9
N255314	Drill Core	0.078	8.2	7	2.54	19	0.371	7.34	0.141	1.26	0.2	95.5	22	1.6	20.5	6.0	0.4	1	18	5.5	6.5
N255316	Drill Core	0.086	8.6	8	2.61	26	0.383	7.23	0.121	1.15	0.2	44.9	22	1.5	20.8	5.3	0.3	1	18	6.0	6.0
N255317	Drill Core	0.090	8.0	7	1.99	23	0.391	7.52	0.315	1.17	0.2	53.2	21	1.9	18.0	5.2	0.3	<1	17	5.6	7.1
N255318	Drill Core	0.110	11.0	6	1.51	35	0.461	8.39	0.420	1.31	0.3	58.4	28	2.7	24.3	5.4	0.3	<1	24	6.1	6.3
N255319	Drill Core	0.078	10.3	13	2.51	23	0.417	7.74	1.051	1.59	0.4	90.9	26	1.1	18.4	6.2	0.4	<1	21	3.5	4.7
N255320	Rock Pulp	0.050	6.5	19	0.84	659	0.198	6.63	2.101	1.80	1.3	9.4	15	2.6	10.3	2.4	0.1	1	9	8.8	0.3
N255321	Drill Core	0.072	8.4	9	2.67	25	0.296	7.46	0.371	2.09	0.3	110.0	21	0.6	15.1	4.4	0.3	<1	18	4.2	6.0
N255322	Drill Core	0.072	10.9	9	2.92	530	0.299	7.13	0.247	1.84	0.4	121.5	25	0.8	16.1	4.5	0.3	<1	20	4.4	6.1
N255323	Drill Core	0.073	16.3	9	2.31	666	0.343	6.88	0.083	1.46	0.6	123.0	32	1.3	28.2	4.9	0.3	<1	22	5.2	6.3
N255324	Drill Core	0.088	9.0	9	0.39	17	0.436	8.40	0.201	1.45	0.5	71.7	21	3.3	28.6	6.4	0.4	<1	22	6.2	7.6
N255325	Drill Core	0.068	10.5	11	2.84	24	0.421	7.11	0.934	0.91	0.5	117.9	26	0.9	19.5	6.5	0.4	<1	18	5.0	5.7
N255326	Rock	0.007	1.3	<1	2.27	14	0.005	0.09	0.037	0.04	<0.1	1.6	<1	<0.1	2.3	0.2	<0.1	<1	<1	0.8	<0.1
N255327	Drill Core	0.072	8.4	11	2.99	18	0.379	7.17	0.825	1.08	0.4	125.7	22	0.8	15.6	5.6	0.4	<1	17	6.4	6.1



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Project: Pemberton

Report Date: November 28, 2018

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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255296	Drill Core	46.7	3.4	0.07	<0.005	10	0.9	<0.5
N255297	Drill Core	23.7	3.9	0.09	<0.005	<1	<0.5	<0.5
N255299	Drill Core	22.4	3.3	0.05	<0.005	2	0.6	<0.5
N255300	Drill Core	22.2	3.4	0.05	<0.005	2	0.6	<0.5
N255301	Drill Core	36.0	3.4	0.08	<0.005	3	<0.5	<0.5
N255302	Drill Core	32.6	3.4	0.05	<0.005	6	0.5	<0.5
N255303	Rock Pulp	34.5	0.6	0.21	0.370	4	2.9	<0.5
N255304	Drill Core	14.6	2.0	0.11	0.011	3	0.5	<0.5
N255305	Drill Core	11.4	2.1	0.06	0.028	4	1.4	<0.5
N255306	Drill Core	14.8	1.5	0.13	0.017	8	1.5	<0.5
N255307	Drill Core	16.2	1.3	0.17	0.015	9	1.9	0.5
N255308	Drill Core	17.8	1.3	0.14	0.090	13	1.2	0.9
N255309	Drill Core	39.5	2.8	0.05	0.077	11	<0.5	1.1
N255310	Rock	0.6	<0.1	<0.05	<0.005	<1	1.0	<0.5
N255311	Drill Core	51.3	3.0	0.09	0.011	13	<0.5	1.2
N255312	Drill Core	41.1	3.1	0.12	0.005	13	0.6	1.2
N255313	Drill Core	37.4	3.2	0.12	0.011	13	0.8	1.2
N255314	Drill Core	18.9	2.5	0.15	<0.005	17	1.1	1.0
N255316	Drill Core	15.5	1.3	0.11	0.438	10	1.1	1.0
N255317	Drill Core	17.0	1.5	0.18	<0.005	19	2.1	0.9
N255318	Drill Core	25.7	1.7	0.21	0.012	18	1.8	0.7
N255319	Drill Core	27.1	2.5	0.10	<0.005	13	1.4	0.6
N255320	Rock Pulp	30.6	0.5	0.08	0.366	<1	0.9	<0.5
N255321	Drill Core	46.7	2.9	0.08	0.006	30	1.0	0.8
N255322	Drill Core	50.1	3.2	<0.05	<0.005	29	0.9	0.8
N255323	Drill Core	48.2	3.3	<0.05	0.071	23	1.1	0.8
N255324	Drill Core	33.9	1.9	0.18	<0.005	15	<0.5	2.0
N255325	Drill Core	17.0	3.1	<0.05	0.005	17	2.5	<0.5
N255326	Rock	1.1	<0.1	<0.05	<0.005	<1	1.1	<0.5
N255327	Drill Core	21.1	3.2	0.09	<0.005	21	2.4	0.6



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255328	Drill Core	4.79	7	2.8	89.7	7.1	79	0.1	10.2	19.5	517	5.48	1	2.6	3.8	40	0.5	0.6	0.6	161	0.39
N255329	Drill Core	4.27	<2	1.8	69.9	5.6	83	<0.1	10.3	20.2	101	5.59	<1	2.5	5.1	139	0.4	0.2	0.6	141	0.24
N255330	Drill Core	4.29	<2	7.8	35.1	15.2	7	<0.1	6.4	9.6	23	2.59	<1	1.2	2.8	810	<0.1	0.1	0.2	170	0.34
N255331	Drill Core	3.82	<2	21.2	5.6	23.3	20	<0.1	0.8	0.8	10	0.21	<1	0.4	1.3	1219	<0.1	<0.1	<0.1	160	0.43
N255332	Drill Core	4.25	3	8.9	20.3	52.0	8	<0.1	4.9	5.6	22	3.62	<1	1.0	6.2	973	<0.1	0.6	0.3	110	0.21
N255333	Drill Core	4.19	<2	6.0	6.7	30.4	30	<0.1	0.8	0.9	40	0.80	<1	1.4	5.1	852	<0.1	0.2	<0.1	93	0.27
N255334	Drill Core	4.41	<2	2.1	13.9	29.8	7	<0.1	2.0	8.7	29	3.30	<1	1.6	6.2	1216	0.2	0.5	0.3	90	0.25
N255335	Drill Core	4.26	<2	1.8	22.5	20.2	22	<0.1	4.8	14.1	24	4.69	<1	1.7	4.4	688	<0.1	0.4	0.6	101	0.14
N255336	Drill Core	4.91	<2	1.3	19.6	19.0	28	<0.1	4.0	12.2	24	4.67	<1	1.9	5.0	855	0.1	0.2	0.3	108	0.06
N255337	Drill Core	1.94	3	2.1	37.5	24.8	12	<0.1	8.4	18.4	29	6.86	<1	1.3	3.7	1129	0.1	0.4	0.5	153	0.14
N255339	Drill Core	4.81	2	1.7	73.8	8.2	131	<0.1	122.0	55.4	65	9.61	3	0.8	1.6	247	0.4	0.4	0.6	229	0.23
N255340	Drill Core	4.30	<2	1.0	59.9	6.8	121	<0.1	45.9	31.8	127	6.45	<1	0.6	1.0	292	0.4	0.1	0.5	186	2.87
N255341	Drill Core	4.92	<2	1.2	39.8	4.3	81	<0.1	17.1	22.8	332	5.83	2	0.7	1.0	200	0.1	0.1	0.3	177	3.60
N255342	Rock Pulp	0.06	624	336.3	4021.2	26.1	106	16.4	26.2	70.7	1446	4.76	1885	2.2	1.4	468	0.6	44.6	15.0	59	5.79
N255343	Drill Core	4.22	3	0.6	41.8	4.4	66	<0.1	20.1	22.9	337	5.32	<1	0.6	1.0	158	<0.1	0.4	0.3	177	5.27
N255344	Drill Core	4.26	2	2.6	35.3	4.9	106	<0.1	12.5	19.7	940	5.10	6	0.5	1.1	227	0.2	0.9	0.1	170	4.63
N255345	Drill Core	4.96	<2	1.3	42.5	5.7	84	<0.1	11.5	18.6	1143	5.27	2	0.6	1.3	170	0.2	0.8	<0.1	180	3.07
N255346	Rock	1.93	<2	<0.1	0.5	0.8	2	<0.1	<0.1	0.8	119	0.12	<1	0.2	0.1	75	<0.1	<0.1	<0.1	<1	33.04
N255347	Drill Core	4.23	<2	4.5	43.8	11.9	72	0.1	15.0	24.2	1096	6.62	12	0.5	1.2	194	0.3	2.6	0.4	162	3.42
N255348	Drill Core	4.60	<2	1.5	37.7	5.1	74	<0.1	11.0	21.7	1978	5.79	3	0.7	1.6	419	0.4	0.5	<0.1	194	4.64
N255349	Drill Core	4.28	<2	1.4	42.0	5.0	76	<0.1	12.1	22.5	2050	5.95	4	1.0	2.0	508	<0.1	0.3	<0.1	205	5.08
N255350	Drill Core	4.40	<2	1.1	35.2	4.5	74	<0.1	11.1	21.1	1459	6.06	<1	0.9	1.9	506	0.1	0.2	<0.1	200	4.99
N255351	Drill Core	4.06	2	1.1	48.8	4.5	70	<0.1	12.5	22.3	1287	5.77	3	0.9	1.6	483	<0.1	0.3	<0.1	197	4.93
N255352	Drill Core	4.61	<2	1.2	46.0	4.0	73	<0.1	11.9	22.9	1791	5.91	5	0.9	1.8	496	<0.1	0.4	<0.1	200	5.07
N255353	Drill Core	4.71	2	1.2	49.0	3.6	77	0.1	11.0	21.9	2166	5.90	3	0.8	1.6	457	<0.1	0.3	<0.1	197	4.65
N255354	Rock Pulp	0.06	200	377.1	1925.9	24.3	58	13.8	14.2	9.0	770	3.63	11	0.9	1.8	428	0.4	34.1	2.1	84	2.74
N255355	Drill Core	3.77	6	1.9	42.8	5.4	72	0.1	14.1	20.6	632	5.28	3	0.7	1.6	271	<0.1	1.1	0.1	166	4.66
N255356	Drill Core	4.03	3	1.6	48.3	6.9	101	<0.1	13.0	19.2	1201	5.43	1	0.7	1.1	176	<0.1	0.6	<0.1	171	2.78
N255357	Drill Core	2.42	2	1.7	49.1	6.4	106	<0.1	11.7	20.8	1280	5.33	3	0.9	1.3	124	0.2	0.4	<0.1	189	1.57
N255359	Drill Core	3.86	<2	6.8	44.9	10.5	86	<0.1	14.1	22.6	1950	5.86	<1	0.6	1.2	132	0.3	0.9	<0.1	166	3.15



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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	1	0.1	1	1	0.1	0.1
N255328	Drill Core	0.076	7.1	10	1.00	16	0.450	8.02	0.061	0.96	0.6	161.9	20	1.0	20.1	9.1	0.6	1	20	4.5	5.8
N255329	Drill Core	0.075	11.2	11	0.16	21	0.286	8.31	0.050	1.16	0.2	149.4	28	0.8	25.5	5.7	0.4	<1	24	2.5	6.1
N255330	Drill Core	0.102	15.7	35	<0.01	131	0.193	10.49	0.031	0.03	0.2	74.0	35	1.3	5.6	2.8	0.2	<1	19	7.1	3.0
N255331	Drill Core	0.116	15.7	32	<0.01	811	0.216	11.06	0.029	<0.01	0.5	29.6	35	1.4	1.6	1.6	<0.1	<1	10	5.8	0.2
N255332	Drill Core	0.136	27.6	6	<0.01	58	0.089	8.93	0.020	0.01	0.4	76.2	58	1.5	3.0	1.7	0.1	<1	6	3.5	4.1
N255333	Drill Core	0.079	28.4	7	0.02	175	0.194	6.61	0.016	0.03	0.5	102.2	54	1.8	5.3	3.3	0.2	<1	6	3.0	0.8
N255334	Drill Core	0.110	29.2	6	<0.01	45	0.196	7.42	0.020	0.03	0.2	86.3	61	2.8	7.2	3.7	0.3	<1	10	3.1	3.7
N255335	Drill Core	0.046	17.7	4	<0.01	33	0.239	8.36	0.014	0.02	0.2	75.8	39	2.3	7.7	4.3	0.3	<1	9	1.5	5.2
N255336	Drill Core	0.048	20.6	5	<0.01	36	0.242	9.10	0.015	0.02	0.4	84.6	48	2.2	6.3	4.5	0.3	<1	7	1.4	5.2
N255337	Drill Core	0.078	18.5	10	<0.01	24	0.290	9.04	0.034	0.04	0.4	63.4	39	3.5	4.7	4.1	0.3	<1	10	2.2	7.5
N255339	Drill Core	0.068	7.0	154	0.12	17	0.594	11.11	0.147	1.68	0.2	62.0	16	2.0	18.0	7.2	0.4	<1	27	2.2	>10
N255340	Drill Core	0.086	6.1	59	0.43	16	0.484	7.34	0.231	1.07	0.2	36.1	15	1.9	8.6	5.2	0.3	<1	17	2.2	9.4
N255341	Drill Core	0.087	6.5	24	2.03	13	0.422	7.28	0.240	0.58	0.3	39.4	15	1.9	9.0	4.7	0.3	<1	16	11.4	9.0
N255342	Rock Pulp	0.064	14.2	31	0.77	279	0.142	5.84	1.735	1.67	6.2	21.0	22	2.7	8.9	1.7	<0.1	1	6	11.7	0.6
N255343	Drill Core	0.078	6.9	26	2.02	58	0.409	7.35	0.208	0.88	0.2	37.3	16	1.0	8.5	4.4	0.3	<1	19	11.2	9.7
N255344	Drill Core	0.101	7.8	13	2.40	31	0.439	7.44	0.552	0.80	0.4	42.1	18	0.8	9.7	5.7	0.3	<1	15	10.5	8.7
N255345	Drill Core	0.110	11.5	10	3.11	19	0.456	7.79	1.284	0.46	0.3	44.8	25	1.1	14.6	5.9	0.3	1	16	10.2	7.2
N255346	Rock	0.006	1.1	<1	1.94	32	0.005	0.22	0.098	0.07	<0.1	2.3	1	<0.1	2.3	0.3	<0.1	<1	<1	0.7	<0.1
N255347	Drill Core	0.102	8.7	11	2.42	28	0.417	6.68	1.483	0.83	0.2	53.3	22	1.0	14.3	5.6	0.3	<1	14	5.5	8.7
N255348	Drill Core	0.117	12.3	10	2.20	36	0.496	8.15	1.952	0.87	0.3	89.9	28	0.9	17.9	6.8	0.4	<1	16	4.4	5.2
N255349	Drill Core	0.124	14.1	13	2.48	181	0.511	8.94	2.204	1.03	0.3	94.4	33	0.9	20.9	6.7	0.3	<1	19	3.2	2.2
N255350	Drill Core	0.119	13.9	13	2.40	82	0.509	8.79	2.221	1.11	0.2	94.8	31	1.1	19.8	6.4	0.4	<1	18	4.2	2.7
N255351	Drill Core	0.112	12.3	12	2.29	90	0.497	8.39	2.218	1.14	0.3	89.4	28	1.0	18.5	6.3	0.3	<1	18	4.1	3.0
N255352	Drill Core	0.120	13.9	13	2.48	227	0.503	8.74	2.176	1.03	0.3	93.9	30	0.9	19.4	6.4	0.4	<1	17	4.0	2.7
N255353	Drill Core	0.115	12.6	12	2.36	28	0.495	8.45	1.997	0.89	0.2	97.8	29	0.8	19.6	6.4	0.4	1	19	4.1	5.1
N255354	Rock Pulp	0.054	7.0	18	0.85	707	0.200	6.99	2.186	1.83	1.5	9.6	16	2.6	10.8	2.3	0.1	<1	8	8.7	0.3
N255355	Drill Core	0.088	9.6	16	1.82	72	0.402	7.30	0.194	0.69	0.2	61.4	20	1.0	13.1	5.4	0.3	<1	16	9.3	9.1
N255356	Drill Core	0.103	7.5	13	2.98	19	0.443	6.95	0.402	0.60	0.2	59.1	18	1.2	12.9	5.9	0.3	1	15	13.8	7.5
N255357	Drill Core	0.125	9.6	9	3.06	18	0.499	7.00	0.900	0.95	0.3	80.5	24	1.0	13.5	6.7	0.4	<1	14	9.6	6.6
N255359	Drill Core	0.104	10.8	8	2.98	27	0.423	7.56	1.066	0.69	0.3	47.7	26	1.0	14.8	5.8	0.3	<1	15	7.6	8.3



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255328	Drill Core	17.1	4.6	0.06	<0.005	20	2.7	3.0
N255329	Drill Core	29.8	4.6	0.13	<0.005	14	1.2	1.4
N255330	Drill Core	0.3	2.1	<0.05	0.010	8	<0.5	<0.5
N255331	Drill Core	0.1	0.8	<0.05	0.153	<1	<0.5	<0.5
N255332	Drill Core	<0.1	1.9	<0.05	<0.005	11	<0.5	<0.5
N255333	Drill Core	0.6	2.8	<0.05	0.016	1	<0.5	<0.5
N255334	Drill Core	0.2	2.4	<0.05	<0.005	10	<0.5	<0.5
N255335	Drill Core	0.6	2.2	0.08	<0.005	7	<0.5	<0.5
N255336	Drill Core	0.5	2.3	0.13	<0.005	11	<0.5	<0.5
N255337	Drill Core	0.4	1.7	0.08	<0.005	15	<0.5	<0.5
N255339	Drill Core	33.0	1.6	0.30	<0.005	11	0.9	2.5
N255340	Drill Core	13.4	1.1	0.11	<0.005	8	<0.5	1.2
N255341	Drill Core	4.9	1.1	0.08	<0.005	9	0.7	0.5
N255342	Rock Pulp	37.0	0.7	0.29	0.358	1	3.2	<0.5
N255343	Drill Core	20.1	1.3	0.09	<0.005	5	1.4	0.5
N255344	Drill Core	11.6	1.1	0.12	<0.005	11	0.8	0.6
N255345	Drill Core	5.9	1.3	<0.05	<0.005	13	1.6	<0.5
N255346	Rock	1.7	0.1	<0.05	<0.005	<1	1.2	<0.5
N255347	Drill Core	11.6	1.3	0.07	<0.005	11	3.0	1.1
N255348	Drill Core	8.2	2.3	<0.05	<0.005	7	1.4	<0.5
N255349	Drill Core	10.3	2.6	0.14	<0.005	2	1.2	<0.5
N255350	Drill Core	10.6	2.7	<0.05	<0.005	4	0.5	<0.5
N255351	Drill Core	10.0	2.1	<0.05	<0.005	3	1.1	<0.5
N255352	Drill Core	9.3	2.4	0.14	<0.005	1	1.5	<0.5
N255353	Drill Core	8.8	2.7	0.12	<0.005	2	1.5	<0.5
N255354	Rock Pulp	31.0	0.5	0.08	0.395	<1	0.9	<0.5
N255355	Drill Core	9.9	1.6	0.16	0.006	7	2.0	0.8
N255356	Drill Core	3.8	1.5	<0.05	<0.005	9	1.5	<0.5
N255357	Drill Core	12.0	2.1	<0.05	<0.005	8	1.0	<0.5
N255359	Drill Core	12.6	1.4	<0.05	<0.005	13	1.5	0.6



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255360	Drill Core	4.76	4	2.2	48.3	8.7	81	0.1	17.7	23.6	557	5.11	<1	0.7	1.4	213	0.3	0.9	0.3	213	2.19
N255361	Drill Core	4.63	5	5.4	49.7	10.0	34	<0.1	5.5	9.0	50	4.27	<1	1.1	2.3	479	<0.1	0.5	0.9	233	0.23
N255362	Drill Core	3.94	3	4.5	27.5	14.1	49	<0.1	3.7	6.3	42	2.61	<1	1.0	2.9	872	0.1	0.2	0.8	185	0.12
N255363	Drill Core	4.24	<2	1.7	16.1	5.4	19	<0.1	1.0	1.6	22	2.50	<1	0.6	2.7	488	<0.1	0.2	0.4	171	0.14
N255364	Drill Core	4.47	4	145.3	107.1	17.0	28	<0.1	16.4	39.3	28	5.27	9	0.7	2.7	507	0.6	0.5	0.7	163	0.16
N255365	Rock	2.29	4	0.1	1.7	0.6	3	0.1	1.0	0.6	113	0.10	<1	0.3	<0.1	80	<0.1	0.1	<0.1	<1	32.28
N255366	Drill Core	4.37	2	4.9	68.7	27.4	87	0.2	27.1	63.1	45	7.16	5	1.0	2.7	368	0.6	0.4	1.4	172	0.17
N255367	Drill Core	4.34	3	9.5	43.2	11.8	90	<0.1	6.8	19.0	31	6.00	6	1.1	2.4	296	0.5	0.2	0.4	197	0.17
N255368	Drill Core	4.11	4	10.2	44.2	9.1	69	<0.1	9.1	21.4	31	5.36	5	1.1	2.3	347	0.3	0.2	0.3	178	0.22
N255369	Drill Core	4.57	4	8.9	39.2	11.0	99	<0.1	7.3	20.9	38	5.32	2	1.2	2.2	172	0.6	0.2	0.2	186	0.20
N255370	Drill Core	3.93	2	1.5	30.9	6.5	125	<0.1	6.7	18.3	41	5.07	2	1.2	2.4	174	0.7	0.1	0.2	150	0.15
N255371	Drill Core	5.12	<2	1.5	39.5	8.5	192	<0.1	7.5	18.8	47	4.90	3	1.1	2.1	180	1.0	0.1	0.2	167	0.19
N255372	Drill Core	4.37	2	1.9	41.6	9.8	174	<0.1	7.1	19.5	32	5.69	4	1.0	2.1	253	1.2	0.3	0.2	164	0.19
N255373	Rock Pulp	0.06	604	320.8	3891.0	26.2	107	14.7	27.1	70.4	1396	4.60	1844	2.1	1.4	438	0.9	44.1	13.4	57	5.84
N255374	Drill Core	5.01	2	2.3	56.6	10.5	98	<0.1	6.0	16.3	28	6.50	2	1.1	2.7	311	0.6	0.3	0.2	188	0.22
N255375	Drill Core	4.64	2	2.8	45.4	9.3	185	<0.1	5.3	17.2	38	5.26	2	1.3	2.9	206	1.0	0.1	0.2	154	0.20
N255376	Drill Core	4.52	3	3.9	38.5	6.6	188	<0.1	5.5	18.7	31	5.35	2	1.2	2.7	149	0.9	0.3	0.2	164	0.22
N255377	Drill Core	4.59	3	3.3	41.3	8.9	123	<0.1	4.9	16.5	39	5.46	5	1.1	3.0	160	0.5	0.3	0.4	124	0.15
N255378	Drill Core	4.86	2	3.9	42.7	12.2	61	<0.1	4.8	18.2	47	5.05	2	1.6	3.7	163	0.2	0.3	0.4	111	0.15
N255379	Drill Core	4.21	3	3.4	45.2	11.0	133	<0.1	6.8	17.4	33	4.98	5	1.3	2.7	340	0.4	0.4	0.6	140	0.12



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255360	Drill Core	0.092	7.7	16	1.37	16	0.514	8.27	0.269	1.13	0.5	47.9	18	1.7	11.2	6.0	0.3	<1	16	7.4	7.1	
N255361	Drill Core	0.060	5.8	17	0.08	28	0.541	9.83	0.142	0.85	0.4	54.6	14	4.5	9.7	6.2	0.4	<1	19	3.9	4.7	
N255362	Drill Core	0.091	9.5	15	0.03	48	0.444	8.62	0.070	0.12	0.8	53.8	22	2.7	10.0	5.1	0.3	<1	15	4.9	2.8	
N255363	Drill Core	0.099	9.9	7	0.02	60	0.406	8.68	0.084	0.03	1.1	30.2	19	1.4	6.3	5.4	0.3	<1	11	3.3	2.8	
N255364	Drill Core	0.114	12.5	5	0.02	32	0.332	9.21	0.085	0.03	0.5	34.6	27	1.5	6.2	4.5	0.3	<1	12	1.9	5.8	
N255365	Rock	0.009	1.2	2	2.29	18	0.005	0.10	0.053	0.03	<0.1	1.4	<1	0.1	2.5	0.3	<0.1	<1	<1	1.2	<0.1	
N255366	Drill Core	0.075	9.8	6	0.04	24	0.305	8.62	0.112	0.26	0.3	31.6	22	2.3	7.9	3.8	0.3	<1	12	1.6	7.7	
N255367	Drill Core	0.080	6.3	7	0.08	19	0.342	8.58	0.218	0.85	0.5	40.1	15	1.7	8.7	4.2	0.2	<1	14	1.6	6.9	
N255368	Drill Core	0.067	5.4	10	0.08	26	0.436	8.97	0.252	0.91	0.4	45.0	13	1.9	10.7	4.8	0.3	<1	15	2.5	6.1	
N255369	Drill Core	0.077	5.3	8	0.10	44	0.402	8.48	0.206	1.07	0.4	49.9	14	1.6	10.5	4.3	0.3	<1	16	1.6	5.9	
N255370	Drill Core	0.068	5.8	6	0.05	15	0.253	8.06	0.071	0.41	0.4	59.4	15	0.7	10.8	3.1	0.2	<1	12	3.0	5.6	
N255371	Drill Core	0.067	6.0	8	0.08	18	0.288	8.21	0.127	0.88	0.2	59.0	16	0.9	14.4	3.2	0.2	<1	16	2.5	5.0	
N255372	Drill Core	0.058	4.5	9	0.07	23	0.378	8.25	0.251	0.98	0.3	41.4	12	1.9	9.7	4.3	0.3	<1	15	1.3	6.6	
N255373	Rock Pulp	0.060	14.4	30	0.78	364	0.137	5.88	1.672	1.55	4.1	20.7	22	3.1	8.8	1.7	<0.1	<1	6	12.5	0.6	
N255374	Drill Core	0.056	7.4	5	0.06	23	0.438	9.67	0.332	0.64	0.2	50.0	17	1.2	9.5	5.3	0.3	<1	16	1.5	7.7	
N255375	Drill Core	0.077	7.4	3	0.14	16	0.403	8.53	0.181	0.53	0.3	64.2	18	1.4	12.2	5.7	0.4	1	14	3.2	6.1	
N255376	Drill Core	0.076	5.8	4	0.05	16	0.440	9.25	0.187	0.76	0.5	66.9	15	2.2	12.9	5.9	0.4	<1	15	3.5	5.5	
N255377	Drill Core	0.080	9.1	3	0.05	15	0.361	8.37	0.086	0.46	0.5	72.9	23	2.0	9.2	5.3	0.4	<1	14	3.6	6.5	
N255378	Drill Core	0.082	9.4	4	0.03	12	0.339	8.24	0.078	0.23	0.6	81.6	22	2.0	10.5	5.5	0.4	<1	13	2.2	5.1	
N255379	Drill Core	0.084	5.1	5	0.02	11	0.396	9.05	0.046	0.13	0.5	70.9	12	2.2	11.3	4.9	0.3	<1	14	2.6	5.9	



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CERTIFICATE OF ANALYSIS

VAN18003241.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255360	Drill Core	19.3	1.6	<0.05	<0.005	9	1.2	1.4
N255361	Drill Core	18.2	1.5	0.10	<0.005	14	0.8	1.0
N255362	Drill Core	2.0	1.4	<0.05	<0.005	9	1.1	<0.5
N255363	Drill Core	0.7	0.8	0.11	<0.005	3	0.5	<0.5
N255364	Drill Core	0.7	0.9	0.14	0.728	8	0.6	0.5
N255365	Rock	0.8	<0.1	<0.05	<0.005	<1	7.3	<0.5
N255366	Drill Core	5.8	1.0	0.10	0.010	7	1.3	0.8
N255367	Drill Core	20.3	1.2	0.06	0.086	7	0.5	0.9
N255368	Drill Core	23.0	1.3	<0.05	0.074	2	<0.5	0.9
N255369	Drill Core	25.7	1.4	0.05	0.078	6	<0.5	0.9
N255370	Drill Core	9.7	1.7	0.13	<0.005	<1	<0.5	<0.5
N255371	Drill Core	23.5	1.6	0.18	<0.005	3	<0.5	0.8
N255372	Drill Core	23.8	1.1	0.20	0.010	7	0.6	0.9
N255373	Rock Pulp	33.7	0.7	0.19	0.386	4	2.6	<0.5
N255374	Drill Core	13.3	1.4	0.15	0.010	6	<0.5	0.8
N255375	Drill Core	11.9	1.7	0.24	0.007	3	<0.5	0.8
N255376	Drill Core	18.9	1.8	0.33	0.018	4	0.8	0.8
N255377	Drill Core	12.5	2.0	0.20	0.014	6	0.6	0.7
N255378	Drill Core	5.8	2.3	0.13	0.013	5	<0.5	<0.5
N255379	Drill Core	3.3	1.6	0.29	0.009	4	<0.5	<0.5



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QUALITY CONTROL REPORT

VAN18003241.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255307	Drill Core	4.49	4	2.0	60.1	8.3	86	<0.1	10.2	19.5	1834	5.60	2	0.6	1.6	299	0.1	<0.1	<0.1	171	3.45
REP N255307	QC			2.0	58.9	8.3	86	<0.1	10.2	20.6	1831	5.55	3	0.6	1.6	298	0.1	<0.1	<0.1	171	3.40
N255324	Drill Core	4.70	<2	2.5	70.0	15.9	96	<0.1	10.6	27.4	159	6.66	5	1.4	2.6	164	0.7	0.3	1.0	245	0.51
REP N255324	QC		3																		
N255343	Drill Core	4.22	3	0.6	41.8	4.4	66	<0.1	20.1	22.9	337	5.32	<1	0.6	1.0	158	<0.1	0.4	0.3	177	5.27
REP N255343	QC			0.8	41.8	4.3	66	<0.1	20.8	23.1	354	5.28	<1	0.7	1.0	165	<0.1	0.6	0.3	176	5.16
N255360	Drill Core	4.76	4	2.2	48.3	8.7	81	0.1	17.7	23.6	557	5.11	<1	0.7	1.4	213	0.3	0.9	0.3	213	2.19
REP N255360	QC		3																		
N255371	Drill Core	5.12	<2	1.5	39.5	8.5	192	<0.1	7.5	18.8	47	4.90	3	1.1	2.1	180	1.0	0.1	0.2	167	0.19
REP N255371	QC			1.6	40.2	8.2	199	<0.1	7.6	19.2	48	5.03	2	1.1	2.1	179	0.9	0.1	0.1	169	0.18
N255377	Drill Core	4.59	3	3.3	41.3	8.9	123	<0.1	4.9	16.5	39	5.46	5	1.1	3.0	160	0.5	0.3	0.4	124	0.15
REP N255377	QC		3																		
Core Reject Duplicates																					
N255329	Drill Core	4.27	<2	1.8	69.9	5.6	83	<0.1	10.3	20.2	101	5.59	<1	2.5	5.1	139	0.4	0.2	0.6	141	0.24
DUP N255329	QC		<2	2.2	71.3	5.6	81	<0.1	9.3	19.9	102	5.66	<1	2.5	4.8	138	0.2	0.4	0.4	140	0.25
Reference Materials																					
STD OREAS25A-4A	Standard			2.5	34.1	23.3	44	<0.1	44.6	7.9	507	6.55	9	2.6	13.8	46	<0.1	0.5	0.3	163	0.27
STD OREAS25A-4A	Standard			2.4	31.8	23.1	40	<0.1	43.2	7.1	437	6.26	10	2.6	13.8	43	<0.1	0.6	0.3	153	0.27
STD OREAS25A-4A	Standard			2.7	35.5	25.2	46	0.1	45.2	7.8	478	6.80	8	2.8	14.6	46	<0.1	0.6	0.4	158	0.30
STD OREAS45E	Standard			2.8	803.5	18.3	48	0.3	499.5	58.4	606	24.58	17	2.5	12.8	17	<0.1	1.0	0.2	335	0.07
STD OREAS45E	Standard			2.0	769.8	18.6	39	0.3	453.6	57.1	546	25.17	18	2.6	13.5	18	<0.1	1.1	0.3	316	0.07
STD OREAS45E	Standard			1.9	801.7	18.8	47	0.3	499.6	61.9	614	26.53	15	2.5	13.4	18	<0.1	1.0	0.3	337	0.09
STD OXC145	Standard		205																		
STD OXC145	Standard		206																		
STD OXC145	Standard		198																		
STD OXH139	Standard		1254																		
STD OXH139	Standard		1274																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255307	Drill Core	0.113	10.9	10	2.44	47	0.466	8.13	1.508	1.37	0.3	39.8	25	2.4	17.5	6.0	0.3	<1	16	2.6	4.2
REP N255307	QC	0.112	10.6	10	2.47	55	0.459	8.06	1.521	1.37	0.3	41.2	25	2.2	17.3	6.0	0.4	1	15	3.1	4.1
N255324	Drill Core	0.088	9.0	9	0.39	17	0.436	8.40	0.201	1.45	0.5	71.7	21	3.3	28.6	6.4	0.4	<1	22	6.2	7.6
REP N255324	QC																				
N255343	Drill Core	0.078	6.9	26	2.02	58	0.409	7.35	0.208	0.88	0.2	37.3	16	1.0	8.5	4.4	0.3	<1	19	11.2	9.7
REP N255343	QC	0.077	7.0	24	2.01	52	0.409	7.25	0.202	0.88	0.2	39.7	16	1.0	8.7	4.3	0.3	<1	18	11.0	9.6
N255360	Drill Core	0.092	7.7	16	1.37	16	0.514	8.27	0.269	1.13	0.5	47.9	18	1.7	11.2	6.0	0.3	<1	16	7.4	7.1
REP N255360	QC																				
N255371	Drill Core	0.067	6.0	8	0.08	18	0.288	8.21	0.127	0.88	0.2	59.0	16	0.9	14.4	3.2	0.2	<1	16	2.5	5.0
REP N255371	QC	0.065	5.8	8	0.08	24	0.274	8.53	0.129	0.86	0.2	56.1	15	1.1	14.0	3.1	0.2	<1	17	2.8	5.7
N255377	Drill Core	0.080	9.1	3	0.05	15	0.361	8.37	0.086	0.46	0.5	72.9	23	2.0	9.2	5.3	0.4	<1	14	3.6	6.5
REP N255377	QC																				
Core Reject Duplicates																					
N255329	Drill Core	0.075	11.2	11	0.16	21	0.286	8.31	0.050	1.16	0.2	149.4	28	0.8	25.5	5.7	0.4	<1	24	2.5	6.1
DUP N255329	QC	0.069	11.4	10	0.16	22	0.294	8.39	0.051	1.20	0.2	151.7	28	0.8	25.6	5.7	0.4	<1	25	2.5	6.2
Reference Materials																					
STD OREAS25A-4A	Standard	0.049	18.5	111	0.31	143	0.946	8.86	0.137	0.48	1.9	151.0	42	3.8	9.6	19.2	1.3	1	12	36.2	<0.1
STD OREAS25A-4A	Standard	0.048	17.0	110	0.30	130	0.922	8.55	0.131	0.43	1.7	136.3	40	3.7	9.1	18.5	1.4	<1	12	35.1	<0.1
STD OREAS25A-4A	Standard	0.048	19.2	117	0.33	156	0.987	8.65	0.125	0.47	1.9	157.2	44	3.7	9.5	20.6	1.6	<1	12	35.5	<0.1
STD OREAS45E	Standard	0.034	9.5	1063	0.16	256	0.549	7.19	0.054	0.34	1.0	96.1	22	1.2	7.6	6.4	0.5	<1	91	6.7	<0.1
STD OREAS45E	Standard	0.034	10.6	1061	0.16	248	0.512	6.95	0.059	0.35	0.9	88.7	24	1.2	7.6	5.9	0.5	<1	89	7.2	<0.1
STD OREAS45E	Standard	0.036	9.9	1017	0.16	268	0.544	6.71	0.056	0.35	1.2	103.2	23	1.2	8.1	6.7	0.6	<1	97	7.1	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047



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QUALITY CONTROL REPORT

VAN18003241.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255307	Drill Core	16.2	1.3	0.17	0.015	9	1.9	0.5
REP N255307	QC	15.3	1.3	0.16	0.006	9	1.7	0.7
N255324	Drill Core	33.9	1.9	0.18	<0.005	15	<0.5	2.0
REP N255324	QC							
N255343	Drill Core	20.1	1.3	0.09	<0.005	5	1.4	0.5
REP N255343	QC	18.7	1.2	0.09	0.005	8	1.0	0.6
N255360	Drill Core	19.3	1.6	<0.05	<0.005	9	1.2	1.4
REP N255360	QC							
N255371	Drill Core	23.5	1.6	0.18	<0.005	3	<0.5	0.8
REP N255371	QC	23.1	1.4	0.15	<0.005	<1	<0.5	0.7
N255377	Drill Core	12.5	2.0	0.20	0.014	6	0.6	0.7
REP N255377	QC							
Core Reject Duplicates								
N255329	Drill Core	29.8	4.6	0.13	<0.005	14	1.2	1.4
DUP N255329	QC	29.7	4.2	0.07	<0.005	13	1.3	1.5
Reference Materials								
STD OREAS25A-4A	Standard	52.8	3.7	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	51.4	3.6	0.09	0.007	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	55.3	3.8	0.13	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	20.0	3.1	0.12	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	19.5	2.9	<0.05	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.9	3.2	0.22	<0.005	5	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

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QUALITY CONTROL REPORT

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	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXC145 Expected		212																		
STD OXH139 Expected		1312																		
BLK	Blank		<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	0.6	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank	3																		
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
Prep Wash																				
ROCK-VAN	Prep Blank	<2	0.9	8.2	2.8	35	<0.1	1.8	5.1	684	2.77	2	1.2	2.6	212	<0.1	<0.1	<0.1	49	1.90
ROCK-VAN	Prep Blank	<2	1.1	7.7	2.9	36	<0.1	1.7	4.7	694	2.60	2	1.0	2.6	215	<0.1	<0.1	<0.1	45	1.79



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXC145 Expected																					
STD OXH139 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.4	<1	0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.043	11.3	4	0.62	724	0.226	7.27	3.420	1.74	0.2	49.3	22	0.8	15.2	4.8	0.3	<1	8	2.5	<0.1
ROCK-VAN	Prep Blank	0.042	9.9	3	0.58	730	0.222	7.12	3.545	1.72	0.2	51.0	21	0.7	15.2	5.1	0.4	2	7	2.4	<0.1



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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXC145 Expected								
STD OXH139 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	32.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	32.4	1.6	<0.05	<0.005	<1	<0.5	<0.5



BUREAU VERITAS MINERAL LABORATORIES
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Bureau Veritas Commodities Canada Ltd.
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: November 16, 2018
Report Date: December 11, 2018
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CERTIFICATE OF ANALYSIS

VAN18003289.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 79

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	73	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA350-Au	79	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	79	Environmental disposal charge-Fire assay lead waste			VAN
MA200	79	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003289.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255233	Drill Core	3.15	3	1.3	58.7	5.4	55	<0.1	7.9	19.3	927	5.16	3	1.2	3.0	244	0.2	0.2	<0.1	173	3.88
N255257	Drill Core	4.20	5	5.1	85.6	21.4	27	<0.1	7.2	17.5	49	5.16	4	2.4	4.5	427	<0.1	0.4	0.9	160	0.38
N255274	Drill Core	2.13	2	1.6	57.0	9.5	94	<0.1	9.4	26.3	1167	5.58	1	1.2	1.5	84	0.3	0.2	0.4	204	1.36
N255298	Drill Core	1.84	2	1.8	69.1	4.5	66	<0.1	9.8	18.9	1358	5.05	<1	1.7	3.9	389	<0.1	<0.1	<0.1	164	4.13
N255315	Drill Core	2.18	4	1.4	86.7	9.9	103	<0.1	17.7	32.6	1584	6.17	3	2.0	3.0	73	0.2	0.3	0.3	154	1.12
N255338	Drill Core	1.98	2	1.6	32.2	23.7	9	<0.1	7.2	16.4	23	6.37	<1	1.3	3.8	1174	0.2	0.3	0.4	146	0.23
N255358	Drill Core	2.30	<2	2.0	43.3	6.4	98	<0.1	10.2	19.4	1974	4.92	4	0.8	1.4	143	0.2	0.6	<0.1	176	2.05
N255380	Rock Pulp	0.06	201	363.2	1847.1	25.4	56	12.5	14.1	9.2	735	3.43	10	0.9	1.6	423	0.3	32.3	2.1	81	2.62
N255381	Drill Core	4.39	2	2.7	32.2	9.6	7	<0.1	6.3	18.2	29	5.68	3	1.4	3.3	505	<0.1	0.3	0.5	121	0.11
N255382	Drill Core	1.15	3	2.8	36.0	10.3	5	0.1	7.5	19.2	17	5.55	3	1.6	3.4	496	<0.1	0.3	1.0	131	0.09
N255445	Drill Core	7.88	3	1.8	101.4	5.6	89	<0.1	14.7	22.7	1781	5.45	5	1.5	2.9	166	<0.1	0.4	<0.1	212	2.71
N255446	Drill Core	5.11	3	2.0	95.2	4.2	54	<0.1	15.2	22.1	1564	5.44	7	1.3	2.9	95	<0.1	0.4	0.2	201	2.40
N255447	Drill Core	4.90	2	1.9	77.9	5.1	62	<0.1	15.8	24.1	1431	5.34	5	1.5	2.6	74	<0.1	0.4	0.1	208	1.96
N255448	Drill Core	5.36	3	2.0	96.6	5.1	56	<0.1	14.0	21.7	1617	5.33	5	1.5	3.1	101	0.1	0.2	0.2	191	2.80
N255449	Drill Core	6.12	6	1.9	100.0	5.4	50	<0.1	14.6	23.0	1527	5.49	5	1.4	2.6	122	0.2	0.3	<0.1	198	2.79
N255450	Rock Pulp	0.06	187	387.5	1924.5	27.2	56	12.9	14.6	9.2	759	3.53	9	1.0	2.0	440	0.4	33.1	2.0	84	2.71
N255451	Drill Core	7.06	3	2.1	87.7	3.6	53	<0.1	14.3	22.9	1758	5.00	2	1.4	2.6	149	<0.1	0.3	<0.1	200	2.49
N255452	Drill Core	7.14	2	2.1	91.7	4.1	62	<0.1	15.3	22.0	1827	5.37	3	1.5	2.7	139	<0.1	0.2	0.2	203	2.45
N255453	Drill Core	7.21	3	2.0	92.1	4.9	64	<0.1	14.7	22.2	1473	5.24	4	1.4	2.4	78	<0.1	0.2	0.5	198	1.90
N255454	Drill Core	7.12	3	1.9	85.3	4.3	66	<0.1	14.7	22.2	1996	4.68	7	1.4	2.7	206	<0.1	0.3	<0.1	203	3.46
N255455	Drill Core	6.63	3	1.6	103.1	21.4	674	<0.1	15.1	22.0	1650	5.47	10	1.3	2.3	44	6.5	0.4	4.8	194	2.45
N255456	Drill Core	5.69	2	1.8	94.0	5.8	84	<0.1	14.4	21.4	1948	5.37	3	1.2	2.4	38	<0.1	0.2	0.3	190	2.71
N255457	Drill Core	6.54	3	1.8	88.4	5.9	67	<0.1	16.4	23.4	1561	5.39	5	1.5	2.3	28	0.2	0.4	0.7	204	1.94
N255458	Drill Core	3.66	3	1.3	95.1	4.4	125	<0.1	15.6	22.3	1447	5.28	4	1.3	2.4	19	0.3	0.3	0.2	191	2.30
N255459	Drill Core	7.14	<2	1.8	99.7	4.6	311	<0.1	14.2	22.6	958	5.53	3	1.3	2.7	20	0.2	0.3	0.3	186	1.98
N255460	Drill Core	7.85	4	4.4	135.0	11.7	319	<0.1	17.3	26.2	170	7.89	6	1.9	2.9	55	0.5	0.6	0.5	197	0.63
N255461	Drill Core	2.78	5	6.6	160.1	29.5	45	<0.1	14.2	26.0	100	10.17	11	3.1	4.1	268	0.4	0.9	1.1	171	0.48
N255462	Rock	2.44	<2	<0.1	2.3	0.6	5	<0.1	0.7	<0.2	116	0.12	<1	0.1	0.2	78	<0.1	<0.1	<0.1	1	33.10
N255463	Drill Core	5.27	5	5.4	130.5	37.7	117	0.1	14.0	20.9	122	7.81	17	3.2	3.1	115	2.0	0.8	0.9	175	0.41
N255464	Drill Core	7.54	4	7.8	120.2	57.1	150	0.1	12.8	14.9	131	7.65	12	1.8	3.2	97	2.3	0.7	0.9	157	0.43



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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255233	Drill Core	0.075	9.9	8	1.60	40	0.436	8.08	1.760	1.88	0.5	92.8	22	1.2	18.9	5.8	0.4	1	19	4.5	3.7
N255257	Drill Core	0.099	15.1	8	0.10	16	0.239	8.64	0.070	0.77	0.4	121.7	42	5.5	15.0	5.7	0.4	<1	18	7.1	5.6
N255274	Drill Core	0.090	6.4	7	3.10	19	0.368	7.16	0.128	1.62	0.3	85.4	16	1.9	11.8	5.5	0.4	2	19	9.7	6.5
N255298	Drill Core	0.078	12.5	9	2.19	592	0.451	8.20	2.223	1.66	0.4	136.9	29	0.9	21.6	8.3	0.5	1	18	4.4	1.0
N255315	Drill Core	0.076	8.2	7	2.35	15	0.327	6.86	0.147	1.47	0.3	95.2	23	1.8	18.9	5.3	0.4	1	17	4.5	6.5
N255338	Drill Core	0.076	18.7	7	0.01	18	0.252	8.95	0.037	0.04	0.3	56.8	38	2.8	5.2	3.0	0.2	1	11	3.1	6.9
N255358	Drill Core	0.114	10.1	8	2.78	13	0.447	7.44	0.857	0.86	0.3	68.6	25	1.6	15.9	6.0	0.3	2	15	10.6	6.6
N255380	Rock Pulp	0.050	7.0	17	0.82	686	0.191	6.62	2.089	1.78	1.5	9.1	17	2.9	10.4	2.3	0.1	<1	9	8.4	0.3
N255381	Drill Core	0.081	4.9	4	0.01	13	0.325	8.79	0.030	0.02	0.4	80.9	13	1.5	7.2	4.6	0.3	<1	8	1.7	6.3
N255382	Drill Core	0.070	5.9	3	0.02	20	0.357	9.61	0.020	0.02	0.3	89.4	14	1.4	7.7	5.0	0.3	1	8	1.8	6.0
N255445	Drill Core	0.101	10.1	21	2.84	24	0.519	8.07	1.085	2.36	0.6	123.6	27	2.2	23.3	7.1	0.4	2	24	8.7	4.8
N255446	Drill Core	0.090	9.3	18	2.19	23	0.492	7.56	0.698	2.53	0.5	120.5	24	1.9	22.1	6.6	0.4	2	23	7.2	5.6
N255447	Drill Core	0.092	8.7	19	2.62	19	0.523	7.27	0.543	2.70	1.0	113.2	23	2.2	21.2	6.8	0.4	1	22	8.7	5.5
N255448	Drill Core	0.094	10.7	19	2.47	24	0.482	7.66	0.663	2.74	0.4	117.5	28	2.1	21.9	6.7	0.4	3	23	7.5	5.3
N255449	Drill Core	0.096	9.5	18	2.27	36	0.479	7.69	0.843	2.29	0.5	116.9	23	2.4	23.3	6.6	0.4	2	22	5.6	5.5
N255450	Rock Pulp	0.053	7.8	18	0.85	721	0.196	6.84	2.172	1.83	1.6	10.1	18	2.8	11.1	2.5	0.2	<1	9	8.9	0.3
N255451	Drill Core	0.090	9.8	21	3.68	59	0.498	7.75	0.961	2.16	0.5	114.8	24	1.4	21.8	7.0	0.4	<1	23	13.3	3.3
N255452	Drill Core	0.096	9.0	18	3.08	24	0.473	7.73	0.999	2.41	0.5	106.5	23	1.7	25.2	6.5	0.4	<1	22	11.2	4.9
N255453	Drill Core	0.092	9.9	17	2.51	20	0.441	7.14	0.581	2.94	0.5	102.0	24	2.3	26.7	5.8	0.4	<1	19	11.3	5.6
N255454	Drill Core	0.099	9.8	19	3.03	49	0.510	7.94	1.292	2.22	0.4	120.3	25	1.4	21.8	6.8	0.4	<1	22	11.2	3.4
N255455	Drill Core	0.090	8.3	16	2.02	18	0.410	7.13	0.298	2.66	0.4	107.8	22	5.1	32.5	5.6	0.3	1	20	8.1	6.1
N255456	Drill Core	0.078	8.0	17	2.32	26	0.422	7.18	0.356	1.90	0.4	108.7	21	2.6	30.7	5.8	0.4	1	20	12.1	6.1
N255457	Drill Core	0.079	7.2	19	2.61	17	0.474	6.89	0.248	1.56	0.5	112.3	20	2.2	24.3	6.4	0.4	1	19	16.6	6.3
N255458	Drill Core	0.088	7.8	18	2.57	20	0.386	6.96	0.078	1.43	0.3	113.6	20	2.5	22.9	5.5	0.3	2	20	16.2	6.1
N255459	Drill Core	0.084	8.7	17	1.85	18	0.360	7.54	0.018	1.48	0.5	102.7	21	3.8	25.8	4.8	0.3	3	24	11.0	6.4
N255460	Drill Core	0.091	6.1	21	0.97	9	0.385	6.90	0.062	1.42	0.4	108.1	18	8.0	22.2	5.5	0.4	<1	22	12.6	9.0
N255461	Drill Core	0.085	14.5	15	0.22	15	0.251	7.07	0.175	1.35	0.5	107.5	40	21.4	41.4	4.6	0.3	<1	25	11.9	>10
N255462	Rock	0.006	1.4	<1	1.73	41	0.007	0.15	0.040	0.04	<0.1	2.7	2	0.2	2.5	0.2	<0.1	<1	<1	0.8	<0.1
N255463	Drill Core	0.086	6.3	15	0.33	9	0.257	6.56	0.241	1.91	0.6	114.1	19	7.9	27.0	5.3	0.3	<1	20	7.1	8.8
N255464	Drill Core	0.084	6.4	14	0.34	10	0.276	6.69	0.218	2.20	0.5	92.4	20	14.8	19.8	4.7	0.3	<1	18	5.4	8.5



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Project: Pemberton

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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255233	Drill Core	45.9	2.6	<0.05	0.007	4	1.6	<0.5
N255257	Drill Core	19.0	3.1	0.15	0.104	26	1.2	1.0
N255274	Drill Core	25.7	2.2	0.13	0.005	22	0.9	1.8
N255298	Drill Core	28.1	3.8	0.10	0.006	2	0.7	<0.5
N255315	Drill Core	32.9	2.6	0.11	<0.005	18	1.3	1.0
N255338	Drill Core	0.4	1.5	0.08	<0.005	19	0.7	<0.5
N255358	Drill Core	12.9	1.9	0.07	<0.005	9	1.6	<0.5
N255380	Rock Pulp	31.9	0.6	0.10	0.381	2	1.1	<0.5
N255381	Drill Core	0.4	2.1	<0.05	0.013	4	0.9	<0.5
N255382	Drill Core	0.6	2.5	<0.05	0.043	7	0.9	<0.5
N255445	Drill Core	44.4	3.2	<0.05	<0.005	9	1.5	1.5
N255446	Drill Core	57.5	3.2	0.14	<0.005	9	2.4	1.9
N255447	Drill Core	64.4	3.3	0.15	<0.005	11	2.2	1.4
N255448	Drill Core	64.2	3.3	0.11	0.006	14	2.4	1.8
N255449	Drill Core	47.5	3.2	<0.05	<0.005	11	1.9	1.9
N255450	Rock Pulp	34.8	0.5	0.11	0.399	1	1.7	<0.5
N255451	Drill Core	33.6	3.2	<0.05	<0.005	5	1.3	1.0
N255452	Drill Core	45.1	3.0	0.09	<0.005	9	2.2	1.3
N255453	Drill Core	75.6	2.6	0.09	0.005	13	2.3	2.3
N255454	Drill Core	31.7	3.5	0.07	0.013	3	1.0	2.1
N255455	Drill Core	58.0	2.9	0.37	<0.005	24	2.0	4.3
N255456	Drill Core	41.6	3.0	0.15	0.007	20	1.8	2.9
N255457	Drill Core	41.6	3.0	0.12	<0.005	20	3.6	5.2
N255458	Drill Core	31.0	2.9	0.13	0.006	23	3.6	3.7
N255459	Drill Core	43.1	2.9	0.17	<0.005	24	1.9	3.8
N255460	Drill Core	33.6	3.1	0.29	0.030	28	1.8	4.0
N255461	Drill Core	34.3	2.8	0.55	0.052	35	0.9	5.0
N255462	Rock	0.9	0.1	<0.05	<0.005	<1	<0.5	<0.5
N255463	Drill Core	55.6	3.0	1.05	0.023	33	1.3	7.2
N255464	Drill Core	61.7	2.6	0.91	0.070	40	1.0	7.2



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255465	Drill Core	7.38	5	9.6	140.7	62.4	214	0.1	13.2	19.9	134	5.81	22	2.6	3.6	115	2.3	0.9	1.2	200	0.29
N255466	Drill Core	7.71	5	6.0	192.3	47.6	189	0.1	11.1	22.5	106	7.56	33	2.3	3.0	53	2.2	1.2	1.2	180	0.27
N255467	Drill Core	6.39	4	2.8	158.6	45.5	180	<0.1	10.9	14.7	118	5.07	24	2.2	3.8	93	1.5	0.8	0.8	205	0.33
N255468	Drill Core	6.64	5	1.9	117.3	56.2	170	0.1	11.2	20.9	136	5.90	22	2.1	5.3	252	1.9	0.6	1.1	211	0.27
N255469	Rock Pulp	0.06	212	342.8	1832.0	24.2	59	11.8	14.0	9.8	759	3.50	11	1.1	2.1	464	0.3	33.5	2.1	81	2.67
N255470	Drill Core	6.44	7	8.1	107.6	36.7	168	<0.1	10.5	16.6	85	5.51	16	1.8	4.6	504	2.0	0.7	1.4	164	0.20
N255471	Drill Core	8.87	5	10.2	127.2	41.7	103	<0.1	12.5	19.8	142	7.46	15	1.8	3.9	459	0.6	0.6	2.0	158	0.34
N255472	Drill Core	4.63	5	6.2	101.4	33.7	102	<0.1	12.0	21.6	167	7.42	11	1.7	3.6	337	0.4	0.5	1.9	179	0.25
N255473	Drill Core	5.24	4	3.8	140.7	21.7	75	<0.1	15.3	24.2	63	7.06	19	2.0	4.0	365	0.8	0.4	1.4	193	0.08
N255474	Rock Pulp	0.06	631	309.7	3851.8	27.3	107	14.4	24.3	68.6	1460	4.63	1631	2.4	1.3	492	1.1	45.5	17.0	57	5.67
N255475	Drill Core	3.71	4	1.9	191.7	12.4	42	<0.1	14.8	35.2	72	6.61	13	1.9	3.7	147	0.4	0.6	1.9	188	0.05
N255476	Drill Core	7.63	6	2.6	167.4	11.5	27	<0.1	18.1	25.8	65	6.94	12	1.7	3.7	142	0.1	0.6	1.5	210	0.06
N255477	Drill Core	6.65	5	1.4	153.6	14.7	30	<0.1	12.8	23.3	55	6.68	18	1.6	3.5	202	0.2	0.5	1.0	178	0.06
N255478	Drill Core	8.32	7	1.9	214.6	10.5	23	<0.1	11.5	21.2	82	7.99	15	1.6	3.5	183	0.1	0.6	1.1	155	0.05
N255479	Drill Core	6.89	5	2.6	154.4	11.6	35	<0.1	12.0	26.0	36	6.53	17	1.6	4.6	180	0.3	0.6	1.6	140	0.08
N255480	Drill Core	6.93	4	3.2	188.4	18.7	13	<0.1	14.4	26.4	48	6.49	12	1.9	4.9	253	<0.1	0.3	1.7	190	0.06
N255481	Drill Core	5.60	5	2.9	137.9	21.7	35	<0.1	19.2	26.7	57	5.00	7	2.1	4.3	281	0.3	0.4	1.3	209	0.08
N255482	Drill Core	6.90	6	3.6	175.3	36.7	25	<0.1	15.6	21.2	62	5.20	5	1.8	3.9	253	0.1	0.4	2.2	199	0.05
N255483	Drill Core	5.90	7	5.3	180.3	45.2	19	<0.1	12.5	20.3	57	5.26	5	1.6	4.3	413	0.3	0.4	1.6	160	0.06
N255484	Rock	2.38	3	<0.1	3.8	0.6	5	<0.1	0.8	0.2	126	0.12	<1	0.2	<0.1	82	<0.1	<0.1	<0.1	3	32.94
N255485	Drill Core	7.78	6	8.7	217.0	34.3	87	<0.1	19.5	28.6	51	6.64	11	2.2	4.1	320	0.9	0.5	1.3	195	0.08
N255486	Drill Core	8.30	6	6.1	160.5	24.3	20	<0.1	13.5	22.4	76	5.99	11	2.2	4.7	360	0.2	0.4	1.6	193	0.12
N255487	Drill Core	4.56	6	6.2	183.2	50.9	113	<0.1	14.1	23.4	136	6.84	8	2.2	4.6	376	1.1	0.4	2.2	206	0.21
N255489	Drill Core	6.82	6	4.2	130.0	34.0	63	<0.1	11.9	18.7	76	5.61	11	2.7	5.7	382	0.4	0.5	2.8	176	0.15
N255490	Drill Core	7.54	4	4.5	106.1	48.0	59	<0.1	7.9	13.6	55	4.65	8	3.2	6.5	680	0.7	0.6	2.3	136	0.10
N255491	Drill Core	8.11	5	4.7	152.3	41.8	57	<0.1	8.5	15.0	36	4.88	10	3.3	6.4	459	0.7	0.6	1.8	136	0.07
N255492	Drill Core	8.17	5	4.7	128.3	35.5	65	<0.1	8.7	16.5	38	4.93	16	3.3	7.1	451	0.9	1.0	2.5	140	0.08
N255493	Drill Core	6.43	5	5.7	108.9	25.0	76	<0.1	10.4	19.6	34	5.36	15	2.5	6.1	387	0.8	0.7	1.9	176	0.08
N255494	Rock Pulp	0.06	215	368.1	1942.2	28.4	61	12.9	14.1	9.3	838	3.67	12	1.2	2.5	475	0.5	35.6	2.5	85	2.80
N255495	Drill Core	5.21	8	10.1	153.7	66.9	11	<0.1	11.6	21.8	22	6.78	8	1.8	5.3	692	<0.1	1.6	3.3	165	0.11



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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255465	Drill Core	0.090	7.3	15	0.37	13	0.384	7.70	0.291	2.67	0.7	115.6	22	11.7	17.3	6.0	0.4	<1	22	5.0	6.5
N255466	Drill Core	0.081	5.8	11	0.38	10	0.285	6.98	0.260	2.58	1.1	100.3	19	7.1	21.4	5.4	0.3	<1	22	2.3	8.6
N255467	Drill Core	0.070	8.4	14	0.42	20	0.289	7.94	0.269	2.58	0.5	95.1	25	10.1	23.7	4.7	0.3	2	30	5.7	5.6
N255468	Drill Core	0.094	14.7	14	0.34	18	0.173	9.63	0.345	2.21	0.3	94.5	37	8.7	24.5	3.4	0.3	1	26	18.6	6.7
N255469	Rock Pulp	0.050	9.7	18	0.85	733	0.183	7.03	2.038	1.79	1.6	9.2	21	2.8	12.3	2.5	0.2	<1	9	9.6	0.3
N255470	Drill Core	0.103	16.2	16	0.22	18	0.193	9.62	0.322	2.49	0.2	102.8	42	7.2	19.4	3.4	0.2	<1	20	27.0	6.2
N255471	Drill Core	0.097	12.7	15	0.26	8	0.263	8.14	0.276	1.49	0.6	88.0	35	4.2	27.9	4.5	0.3	1	22	7.6	8.6
N255472	Drill Core	0.091	12.0	16	0.42	10	0.305	8.76	0.391	1.59	1.5	84.4	30	4.5	15.9	5.2	0.4	1	21	7.7	8.4
N255473	Drill Core	0.084	12.7	20	0.22	10	0.310	9.10	0.385	1.81	0.3	76.6	35	2.8	30.7	5.0	0.3	2	23	6.2	8.2
N255474	Rock Pulp	0.062	14.6	33	0.76	667	0.141	5.85	1.617	1.63	3.9	20.0	23	2.7	8.9	1.6	<0.1	<1	6	11.4	0.6
N255475	Drill Core	0.051	11.3	19	0.34	14	0.358	9.16	0.114	1.44	0.5	106.2	30	1.7	29.7	4.9	0.4	<1	25	5.4	7.6
N255476	Drill Core	0.060	12.1	21	0.21	11	0.352	9.89	0.126	1.42	0.4	88.1	30	1.5	21.4	5.1	0.3	1	27	7.0	8.0
N255477	Drill Core	0.056	12.0	15	0.20	11	0.263	9.17	0.372	2.06	0.2	55.5	31	2.2	12.1	5.3	0.3	<1	28	3.5	7.6
N255478	Drill Core	0.049	10.0	17	0.15	6	0.316	9.27	0.192	1.26	0.2	72.7	29	1.0	18.1	5.0	0.4	<1	24	4.4	9.4
N255479	Drill Core	0.085	16.2	15	0.23	15	0.240	10.30	0.294	2.44	0.2	56.7	40	1.7	12.9	4.6	0.3	<1	20	5.0	7.4
N255480	Drill Core	0.088	15.6	18	0.17	19	0.241	9.64	0.335	1.88	0.3	70.1	39	2.3	14.3	4.6	0.3	<1	21	6.4	7.3
N255481	Drill Core	0.099	13.5	23	0.21	23	0.348	10.35	0.355	2.36	0.2	63.3	36	2.5	11.1	5.7	0.4	<1	22	6.7	5.5
N255482	Drill Core	0.073	9.8	19	0.11	18	0.261	9.60	0.274	1.61	0.5	74.1	26	7.5	10.8	4.4	0.3	<1	19	14.8	5.7
N255483	Drill Core	0.086	11.6	17	0.09	9	0.234	8.96	0.194	1.39	0.3	69.3	33	7.0	8.1	4.0	0.3	<1	19	11.8	5.8
N255484	Rock	0.007	1.2	<1	1.92	21	0.005	0.15	0.057	0.04	<0.1	2.0	1	0.1	2.2	0.3	<0.1	<1	<1	1.1	<0.1
N255485	Drill Core	0.076	13.7	23	0.20	12	0.327	8.89	0.180	1.48	0.5	101.7	35	4.9	12.7	5.1	0.3	<1	23	6.5	7.5
N255486	Drill Core	0.067	16.3	18	0.26	11	0.349	9.80	0.128	1.30	0.7	112.9	41	3.7	16.9	5.6	0.4	1	22	6.3	6.7
N255487	Drill Core	0.080	12.8	22	0.26	9	0.300	9.53	0.269	1.64	1.9	99.8	34	6.9	13.6	4.6	0.3	<1	22	8.6	7.7
N255489	Drill Core	0.063	16.2	16	0.25	11	0.380	9.74	0.149	1.50	18.0	135.9	39	5.1	20.7	7.6	0.5	<1	19	7.5	6.4
N255490	Drill Core	0.096	16.0	12	0.16	9	0.311	8.30	0.128	1.23	9.5	158.1	42	7.6	18.8	7.5	0.6	<1	14	9.5	5.2
N255491	Drill Core	0.080	16.5	12	0.22	10	0.330	8.89	0.143	1.87	1.5	166.8	42	7.1	21.1	8.1	0.6	<1	17	6.9	5.5
N255492	Drill Core	0.082	20.7	11	0.20	14	0.322	8.81	0.109	1.52	0.9	156.9	52	6.7	23.1	7.9	0.6	<1	17	8.2	5.6
N255493	Drill Core	0.066	18.4	14	0.20	19	0.325	9.84	0.069	1.40	0.8	117.6	46	4.5	19.3	6.6	0.5	<1	19	8.9	6.1
N255494	Rock Pulp	0.056	10.5	18	0.88	769	0.200	7.42	2.099	1.93	1.8	9.3	22	2.8	12.1	2.3	0.2	2	10	9.5	0.3
N255495	Drill Core	0.097	17.0	13	0.03	8	0.261	9.06	0.023	0.21	1.5	81.1	38	8.6	8.8	3.9	0.3	<1	11	18.5	7.8



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 11, 2018

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CERTIFICATE OF ANALYSIS

VAN18003289.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255465	Drill Core	75.4	3.1	1.22	0.050	34	1.0	7.9
N255466	Drill Core	75.0	2.7	0.89	<0.005	28	1.1	6.9
N255467	Drill Core	75.9	2.7	0.90	0.006	30	1.1	7.0
N255468	Drill Core	59.1	2.5	0.51	<0.005	17	<0.5	5.1
N255469	Rock Pulp	37.8	0.5	0.05	0.295	2	0.8	<0.5
N255470	Drill Core	49.1	2.6	0.47	0.016	19	<0.5	5.3
N255471	Drill Core	43.1	2.4	0.52	0.132	22	0.6	4.8
N255472	Drill Core	45.4	2.5	0.30	0.027	20	0.7	5.0
N255473	Drill Core	50.3	2.3	0.40	0.033	23	0.6	5.1
N255474	Rock Pulp	36.2	0.6	0.19	0.405	3	2.3	<0.5
N255475	Drill Core	37.1	2.8	0.39	0.008	24	0.5	4.5
N255476	Drill Core	37.9	2.4	0.41	0.014	21	1.1	3.4
N255477	Drill Core	49.6	1.7	0.38	0.005	16	0.9	4.0
N255478	Drill Core	32.3	2.2	0.30	0.012	19	1.0	5.0
N255479	Drill Core	56.8	1.7	0.31	0.029	18	0.9	5.3
N255480	Drill Core	44.2	1.9	0.35	0.016	11	<0.5	5.0
N255481	Drill Core	54.3	2.0	0.46	0.031	9	<0.5	5.2
N255482	Drill Core	25.4	2.2	0.40	0.025	7	<0.5	3.7
N255483	Drill Core	20.0	1.7	0.44	0.080	12	<0.5	3.2
N255484	Rock	1.2	<0.1	<0.05	<0.005	<1	1.8	<0.5
N255485	Drill Core	45.8	2.9	0.62	0.111	17	0.9	5.0
N255486	Drill Core	35.8	3.2	0.56	0.081	19	1.4	5.3
N255487	Drill Core	43.3	2.9	0.61	0.046	20	0.6	4.5
N255489	Drill Core	42.0	4.1	0.70	0.020	19	0.8	5.6
N255490	Drill Core	34.8	4.3	0.72	0.026	13	0.5	3.7
N255491	Drill Core	48.2	4.8	0.69	0.012	15	0.7	5.2
N255492	Drill Core	38.1	4.4	0.62	0.016	17	1.1	4.8
N255493	Drill Core	40.3	3.2	0.73	0.050	17	0.8	4.8
N255494	Rock Pulp	39.3	0.5	0.08	0.378	<1	1.0	<0.5
N255495	Drill Core	5.3	2.5	0.41	0.118	37	1.0	0.9



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CERTIFICATE OF ANALYSIS

VAN18003289.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255496	Drill Core	2.39	13	12.5	168.8	49.9	33	<0.1	13.1	22.2	25	6.24	10	1.7	4.3	979	0.5	2.3	4.2	147	0.09
N255497	Drill Core	5.78	15	47.6	176.2	59.6	8	<0.1	8.9	15.8	35	3.60	13	1.7	4.5	1194	<0.1	4.0	3.3	150	0.10
N255498	Drill Core	7.67	8	21.4	92.4	35.4	12	<0.1	14.3	23.7	28	5.26	9	2.6	5.3	618	0.2	2.0	3.7	231	0.11
N255499	Drill Core	5.40	14	20.4	351.6	64.8	11	<0.1	13.5	22.3	24	4.23	51	1.8	5.5	1006	<0.1	6.5	3.3	168	0.09
N255500	Rock	1.85	3	<0.1	0.6	0.5	3	<0.1	<0.1	0.2	110	0.10	<1	0.2	0.2	89	<0.1	<0.1	<0.1	3	33.10
N255501	Drill Core	6.35	8	30.7	156.8	39.2	14	<0.1	14.5	23.5	22	5.20	16	2.2	4.9	683	0.3	2.1	2.8	214	0.12
N255502	Drill Core	3.39	8	19.0	203.8	32.5	19	<0.1	14.5	22.8	68	4.75	26	2.2	4.7	604	0.1	2.6	2.6	205	0.17
N255503	Drill Core	4.54	8	18.0	204.9	30.7	57	0.1	13.1	25.3	35	6.10	19	1.7	4.7	701	1.1	1.5	3.3	184	0.11
N255504	Drill Core	3.79	9	13.7	308.3	45.2	59	0.2	15.7	29.5	29	6.46	37	1.6	4.4	654	1.0	3.1	3.8	190	0.13
N255505	Drill Core	3.44	6	3.8	132.0	33.1	15	<0.1	13.3	20.1	32	5.16	15	2.1	3.4	601	<0.1	0.9	1.2	208	0.15
N255507	Drill Core	4.69	7	3.2	133.7	28.4	22	0.1	13.3	26.6	44	6.35	11	1.9	3.5	425	0.2	1.0	1.5	150	0.08
N255508	Drill Core	4.97	9	3.6	208.8	30.3	19	0.2	15.0	24.4	38	7.33	10	1.3	3.4	493	0.2	0.8	2.2	139	0.09
N255509	Drill Core	5.10	6	16.7	98.7	26.5	20	<0.1	14.2	21.9	39	7.55	<1	1.5	4.0	449	0.2	0.7	1.2	163	0.11
N255510	Drill Core	6.98	6	13.1	97.2	22.6	39	<0.1	10.2	18.0	225	5.27	<1	2.4	5.8	339	0.2	0.6	0.8	201	0.42
N255511	Rock Pulp	0.06	614	325.3	3873.8	27.9	104	15.4	25.0	71.2	1460	4.66	1892	2.2	1.5	447	0.9	44.4	15.3	58	5.74
N255512	Drill Core	4.26	3	2.9	61.0	9.9	82	0.4	7.2	16.3	1300	4.60	1	2.2	4.3	171	<0.1	0.5	0.1	137	1.08
N255513	Drill Core	3.38	3	3.0	72.9	6.3	73	0.1	4.8	16.0	1467	4.60	5	1.9	4.4	287	0.1	0.7	<0.1	136	2.34
N255514	Drill Core	2.79	2	2.0	71.2	5.9	90	0.4	3.9	13.4	2478	4.05	6	2.6	5.3	189	<0.1	0.5	<0.1	115	1.55
N255566	Drill Core	2.75	7	7.1	169.7	41.9	18	<0.1	17.3	26.7	31	5.66	18	1.6	4.1	827	0.2	1.6	2.8	183	0.10



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255496	Drill Core	0.076	17.0	15	0.05	14	0.226	9.18	0.025	0.30	0.5	97.2	40	8.1	8.0	3.5	0.3	<1	10	20.5	7.2	
N255497	Drill Core	0.095	17.2	17	0.05	19	0.269	7.98	0.028	0.07	0.8	104.1	36	8.6	6.2	3.9	0.3	<1	9	22.1	4.1	
N255498	Drill Core	0.088	15.6	19	0.02	13	0.382	8.90	0.016	0.10	0.7	106.5	37	12.1	10.3	5.6	0.4	<1	12	24.0	6.0	
N255499	Drill Core	0.079	19.4	16	0.02	37	0.263	10.31	0.021	0.06	22.4	100.8	43	12.8	7.0	3.6	0.3	<1	13	25.1	4.8	
N255500	Rock	0.007	1.2	<1	1.45	27	0.006	0.15	0.050	0.03	<0.1	1.7	1	<0.1	2.1	0.2	<0.1	<1	<1	1.2	<0.1	
N255501	Drill Core	0.084	16.0	19	0.02	13	0.336	9.09	0.013	0.04	1.1	90.4	36	13.0	11.8	4.8	0.3	<1	14	19.1	6.0	
N255502	Drill Core	0.089	14.3	20	0.11	16	0.350	9.24	0.047	0.23	3.6	94.3	35	13.4	16.1	5.1	0.4	<1	16	16.9	5.4	
N255503	Drill Core	0.081	14.5	16	0.07	9	0.302	9.14	0.036	0.44	1.2	83.2	33	6.1	15.3	4.3	0.3	<1	17	15.7	7.1	
N255504	Drill Core	0.095	14.8	16	0.04	21	0.243	9.05	0.019	0.15	0.6	79.4	34	8.9	12.2	3.2	0.2	<1	14	19.4	7.3	
N255505	Drill Core	0.091	8.0	18	0.06	31	0.199	9.15	0.052	0.77	0.3	82.7	20	4.2	11.7	2.6	0.2	<1	24	17.0	5.9	
N255507	Drill Core	0.067	10.1	12	0.04	11	0.196	6.38	0.033	0.43	0.6	73.2	25	3.6	15.8	2.9	0.2	<1	17	13.2	7.1	
N255508	Drill Core	0.074	12.5	15	0.03	10	0.150	6.98	0.039	0.29	1.1	53.8	30	3.7	13.3	2.0	0.1	<1	12	15.6	8.4	
N255509	Drill Core	0.071	12.7	16	0.04	16	0.141	8.19	0.046	0.37	0.5	61.6	30	4.4	15.2	1.9	0.2	<1	15	16.5	8.4	
N255510	Drill Core	0.073	15.2	16	0.57	20	0.333	8.21	0.499	0.92	0.8	89.5	37	4.8	14.6	6.1	0.4	<1	16	15.3	5.9	
N255511	Rock Pulp	0.062	15.7	32	0.75	733	0.146	5.91	1.632	1.59	3.9	20.6	22	2.9	9.2	1.6	<0.1	1	6	11.2	0.6	
N255512	Drill Core	0.084	13.6	9	2.12	21	0.440	7.40	1.988	2.48	1.6	125.3	32	1.6	20.1	8.4	0.5	1	15	11.4	4.5	
N255513	Drill Core	0.101	16.2	6	1.85	36	0.484	8.03	2.319	2.09	0.7	149.0	37	1.3	28.6	9.3	0.6	<1	17	12.1	4.2	
N255514	Drill Core	0.086	16.8	6	2.07	39	0.464	7.30	1.879	2.97	1.4	152.8	38	1.2	28.3	9.9	0.6	<1	15	8.3	2.7	
N255566	Drill Core	0.086	14.7	15	0.02	19	0.162	8.23	0.015	0.03	0.4	78.2	32	10.2	7.2	2.1	0.2	<1	12	20.8	6.5	



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CERTIFICATE OF ANALYSIS

VAN18003289.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255496	Drill Core	7.9	2.6	0.28	0.081	22	1.6	1.8
N255497	Drill Core	1.2	2.6	0.14	1.358	17	1.5	<0.5
N255498	Drill Core	1.3	3.2	0.11	0.588	12	1.1	0.7
N255499	Drill Core	0.8	3.0	0.19	0.259	17	2.1	0.7
N255500	Rock	0.7	<0.1	<0.05	<0.005	<1	1.7	<0.5
N255501	Drill Core	1.2	2.5	0.34	0.116	21	1.0	1.0
N255502	Drill Core	7.2	2.8	0.40	0.345	22	1.0	1.3
N255503	Drill Core	12.8	2.4	0.61	0.121	24	1.4	2.9
N255504	Drill Core	3.2	2.5	0.64	0.090	23	1.4	1.3
N255505	Drill Core	16.6	2.3	0.51	0.037	14	<0.5	1.8
N255507	Drill Core	8.3	2.1	0.23	0.015	22	0.7	1.1
N255508	Drill Core	4.3	1.7	0.24	<0.005	27	0.7	1.0
N255509	Drill Core	8.1	1.8	0.23	0.095	44	<0.5	0.8
N255510	Drill Core	28.2	2.9	0.16	0.186	33	<0.5	<0.5
N255511	Rock Pulp	35.3	0.6	0.13	0.398	4	3.0	<0.5
N255512	Drill Core	66.4	3.7	0.12	0.014	17	<0.5	0.7
N255513	Drill Core	46.9	4.1	0.11	0.008	7	0.5	0.8
N255514	Drill Core	64.9	4.6	0.09	0.006	6	<0.5	0.6
N255566	Drill Core	1.4	2.3	0.26	0.074	16	0.6	<0.5



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QUALITY CONTROL REPORT

VAN18003289.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255233	Drill Core	3.15	3	1.3	58.7	5.4	55	<0.1	7.9	19.3	927	5.16	3	1.2	3.0	244	0.2	0.2	<0.1	173	3.88
REP N255233	QC		3																		
N255451	Drill Core	7.06	3	2.1	87.7	3.6	53	<0.1	14.3	22.9	1758	5.00	2	1.4	2.6	149	<0.1	0.3	<0.1	200	2.49
REP N255451	QC			2.0	84.7	3.6	56	<0.1	14.3	21.7	1788	4.91	2	1.3	2.3	148	<0.1	0.3	<0.1	198	2.52
REP N255467	QC		4																		
N255485	Drill Core	7.78	6	8.7	217.0	34.3	87	<0.1	19.5	28.6	51	6.64	11	2.2	4.1	320	0.9	0.5	1.3	195	0.08
REP N255485	QC			8.8	216.0	33.4	84	<0.1	19.3	27.8	46	6.62	13	2.3	4.3	327	1.0	0.4	1.3	196	0.08
REP N255502	QC		8																		
N255510	Drill Core	6.98	6	13.1	97.2	22.6	39	<0.1	10.2	18.0	225	5.27	<1	2.4	5.8	339	0.2	0.6	0.8	201	0.42
REP N255510	QC			14.3	101.6	23.1	40	<0.1	10.4	18.1	234	5.43	<1	2.4	5.6	334	<0.1	0.5	0.7	206	0.39
Core Reject Duplicates																					
N255467	Drill Core	6.39	4	2.8	158.6	45.5	180	<0.1	10.9	14.7	118	5.07	24	2.2	3.8	93	1.5	0.8	0.8	205	0.33
DUP N255467	QC		4	2.8	151.3	47.2	179	0.1	11.1	13.7	116	4.96	23	2.2	3.6	94	1.5	0.8	0.8	202	0.30
N255502	Drill Core	3.39	8	19.0	203.8	32.5	19	<0.1	14.5	22.8	68	4.75	26	2.2	4.7	604	0.1	2.6	2.6	205	0.17
DUP N255502	QC		7	18.5	207.4	32.8	19	0.1	15.9	22.8	70	4.88	24	2.3	5.0	621	0.2	2.3	2.6	207	0.19
Reference Materials																					
STD OREAS25A-4A	Standard			2.1	33.5	25.5	38	<0.1	45.6	8.3	479	6.40	10	2.9	16.0	47	<0.1	0.7	0.4	156	0.29
STD OREAS25A-4A	Standard			2.5	30.8	23.7	43	<0.1	42.6	7.2	498	6.46	10	2.7	14.5	49	<0.1	0.6	0.4	156	0.27
STD OREAS25A-4A	Standard			2.3	32.7	25.0	42	<0.1	44.5	7.4	524	6.43	9	2.8	16.1	53	<0.1	0.6	0.4	158	0.28
STD OREAS45E	Standard			2.3	782.9	18.2	46	0.3	480.5	60.4	607	24.48	17	2.4	13.6	17	<0.1	1.2	0.3	323	0.08
STD OREAS45E	Standard			2.1	745.7	17.1	41	0.3	438.9	53.4	552	22.91	15	2.3	12.1	16	<0.1	0.9	0.3	303	0.07
STD OREAS45E	Standard			2.6	801.8	19.5	49	0.3	490.8	58.6	617	24.53	16	2.7	14.0	18	<0.1	1.0	0.2	331	0.06
STD OXC145	Standard		210																		
STD OXC145	Standard		205																		
STD OXC145	Standard		211																		
STD OXH139	Standard		1282																		
STD OXH139	Standard		1309																		
STD OXC145 Expected			212																		



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QUALITY CONTROL REPORT

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		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N255233	Drill Core	0.075	9.9	8	1.60	40	0.436	8.08	1.760	1.88	0.5	92.8	22	1.2	18.9	5.8	0.4	1	19	4.5	3.7
REP N255233	QC																				
N255451	Drill Core	0.090	9.8	21	3.68	59	0.498	7.75	0.961	2.16	0.5	114.8	24	1.4	21.8	7.0	0.4	<1	23	13.3	3.3
REP N255451	QC	0.094	9.2	21	3.71	53	0.499	7.72	1.013	2.13	0.4	112.0	23	1.4	21.4	6.8	0.4	<1	22	12.0	3.3
REP N255467	QC																				
N255485	Drill Core	0.076	13.7	23	0.20	12	0.327	8.89	0.180	1.48	0.5	101.7	35	4.9	12.7	5.1	0.3	<1	23	6.5	7.5
REP N255485	QC	0.079	13.8	24	0.20	8	0.328	8.93	0.176	1.47	0.3	101.1	34	4.5	12.3	5.2	0.3	1	22	6.2	7.6
REP N255502	QC																				
N255510	Drill Core	0.073	15.2	16	0.57	20	0.333	8.21	0.499	0.92	0.8	89.5	37	4.8	14.6	6.1	0.4	<1	16	15.3	5.9
REP N255510	QC	0.080	14.1	16	0.58	19	0.326	8.11	0.502	0.88	0.8	86.4	34	5.1	13.8	5.8	0.4	<1	16	16.8	6.1
Core Reject Duplicates																					
N255467	Drill Core	0.070	8.4	14	0.42	20	0.289	7.94	0.269	2.58	0.5	95.1	25	10.1	23.7	4.7	0.3	2	30	5.7	5.6
DUP N255467	QC	0.070	8.4	14	0.42	19	0.282	8.12	0.263	2.55	0.5	92.1	24	9.8	23.3	4.5	0.3	<1	30	4.8	5.5
N255502	Drill Core	0.089	14.3	20	0.11	16	0.350	9.24	0.047	0.23	3.6	94.3	35	13.4	16.1	5.1	0.4	<1	16	16.9	5.4
DUP N255502	QC	0.088	15.4	21	0.12	12	0.348	9.36	0.053	0.23	5.2	99.5	37	14.1	17.5	5.4	0.4	<1	15	16.8	5.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.047	20.7	117	0.32	153	0.900	8.84	0.112	0.45	1.9	143.9	47	4.1	9.6	18.7	1.4	<1	12	38.3	<0.1
STD OREAS25A-4A	Standard	0.043	19.5	106	0.35	141	0.901	8.86	0.123	0.49	1.8	149.6	44	3.8	10.0	18.2	1.3	<1	12	39.0	<0.1
STD OREAS25A-4A	Standard	0.050	23.1	108	0.32	145	0.894	9.28	0.118	0.47	1.4	152.7	51	3.5	10.3	18.8	1.3	<1	12	37.0	<0.1
STD OREAS45E	Standard	0.034	11.3	1047	0.16	256	0.521	7.12	0.053	0.34	0.9	88.6	24	1.3	7.9	6.1	0.5	<1	90	7.1	<0.1
STD OREAS45E	Standard	0.034	10.0	927	0.16	235	0.486	6.54	0.054	0.32	0.9	88.8	23	1.2	7.6	5.6	0.5	<1	90	5.6	<0.1
STD OREAS45E	Standard	0.035	12.3	1055	0.16	259	0.539	7.16	0.056	0.33	0.9	97.6	26	1.2	7.9	6.1	0.5	<1	94	7.6	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

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QUALITY CONTROL REPORT

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Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255233	Drill Core	45.9	2.6	<0.05	0.007	4	1.6	<0.5
REP N255233	QC							
N255451	Drill Core	33.6	3.2	<0.05	<0.005	5	1.3	1.0
REP N255451	QC	31.8	3.2	0.07	0.011	5	1.1	1.0
REP N255467	QC							
N255485	Drill Core	45.8	2.9	0.62	0.111	17	0.9	5.0
REP N255485	QC	44.6	2.9	0.60	0.107	19	0.9	4.8
REP N255502	QC							
N255510	Drill Core	28.2	2.9	0.16	0.186	33	<0.5	<0.5
REP N255510	QC	27.9	2.6	0.16	0.182	37	<0.5	0.6
Core Reject Duplicates								
N255467	Drill Core	75.9	2.7	0.90	0.006	30	1.1	7.0
DUP N255467	QC	76.3	2.7	1.07	<0.005	32	1.0	6.8
N255502	Drill Core	7.2	2.8	0.40	0.345	22	1.0	1.3
DUP N255502	QC	7.8	3.0	0.43	0.389	18	0.7	1.3
Reference Materials								
STD OREAS25A-4A	Standard	55.8	4.0	0.05	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	58.0	3.9	0.17	<0.005	3	0.6	<0.5
STD OREAS25A-4A	Standard	62.6	3.8	0.06	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	20.7	3.2	0.10	0.005	3	<0.5	<0.5
STD OREAS45E	Standard	19.6	2.8	0.10	<0.005	2	0.6	<0.5
STD OREAS45E	Standard	22.6	3.0	0.09	<0.005	4	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								



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QUALITY CONTROL REPORT

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	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
STD OXH139 Expected		1312																			
STD OREAS25A-4A Expected			2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309	
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank		<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																					
ROCK-VAN	Prep Blank		4	0.6	3.9	14.9	35	<0.1	1.0	3.7	639	2.18	3	1.1	2.8	226	<0.1	<0.1	<0.1	35	1.63
ROCK-VAN	Prep Blank		6	0.7	4.1	16.1	37	<0.1	0.9	3.7	621	2.36	3	1.1	2.9	218	<0.1	<0.1	<0.1	35	1.66



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OXH139 Expected																						
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.2	<1	<0.1	0.3	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.041	13.1	2	0.46	893	0.203	7.15	3.319	1.83	0.3	53.3	25	0.8	16.1	5.3	0.4	<1	7	3.5	<0.1	
ROCK-VAN	Prep Blank	0.041	12.7	3	0.47	862	0.196	7.09	3.244	1.78	0.3	51.4	26	0.7	16.5	5.2	0.4	2	6	3.0	<0.1	



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	0.3	<0.1	<0.05	0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	39.8	1.8	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	39.5	1.8	<0.05	<0.005	2	<0.5	<0.5



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Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: November 20, 2018

Report Date: December 13, 2018

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CERTIFICATE OF ANALYSIS

VAN18003344.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	67	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	5	Sort, label and box pulps			VAN
FA350-Au	72	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	72	Environmental disposal charge-Fire assay lead waste			VAN
MA200	72	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 13, 2018

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CERTIFICATE OF ANALYSIS

VAN18003344.1

Method Analyte Unit MDL	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255584	Drill Core	5.99	4	4.1	90.9	13.2	75	<0.1	11.2	21.0	579	5.54	<1	2.2	4.5	37	0.3	0.6	<0.1	130	1.83
N255585	Drill Core	6.78	3	3.4	57.9	9.5	76	<0.1	12.4	13.4	531	5.23	4	2.3	4.5	121	0.1	0.2	<0.1	156	0.39
N255586	Drill Core	5.14	3	3.7	71.0	9.6	91	<0.1	16.0	16.0	538	4.97	3	2.2	3.7	123	0.4	0.2	<0.1	157	0.41
N255587	Drill Core	4.64	3	2.6	78.4	8.3	105	<0.1	16.6	17.1	726	4.40	1	2.5	4.8	186	0.2	0.2	<0.1	136	0.68
N255588	Drill Core	5.27	3	7.7	71.0	8.4	111	1.9	18.2	22.1	741	4.28	2	2.3	3.8	160	0.5	0.2	<0.1	141	0.58
N255589	Drill Core	6.97	3	2.9	54.9	6.8	87	<0.1	15.1	18.7	1693	4.29	2	2.3	4.4	194	0.1	0.2	<0.1	138	0.96
N255590	Rock Pulp	0.05	638	315.1	3947.1	28.7	104	14.7	25.2	68.9	1384	4.55	1765	2.2	1.4	465	0.7	43.4	15.0	57	5.77
N255591	Drill Core	5.72	4	3.0	67.3	7.8	91	<0.1	15.0	19.7	1376	4.51	3	2.2	4.3	196	<0.1	0.5	<0.1	141	0.82
N255592	Drill Core	7.20	3	5.3	77.0	7.2	89	1.3	16.8	20.2	1177	4.41	2	2.7	5.5	192	0.2	0.3	<0.1	135	1.23
N255593	Drill Core	5.95	2	3.3	56.4	7.9	70	<0.1	11.4	16.6	993	4.27	3	2.5	5.3	189	0.3	0.3	<0.1	128	1.43
N255594	Drill Core	6.05	2	3.7	56.1	8.5	77	<0.1	13.2	16.7	1342	4.26	2	2.0	4.0	203	0.2	0.4	<0.1	138	1.89
N255595	Drill Core	7.36	2	3.3	51.9	7.2	68	<0.1	11.3	15.0	1378	4.06	3	2.0	3.9	190	<0.1	0.3	<0.1	130	1.97
N255596	Drill Core	8.03	2	3.6	55.6	6.8	66	<0.1	12.1	14.9	1329	4.13	2	2.2	4.5	189	<0.1	0.3	<0.1	130	1.80
N255597	Rock	2.28	2	<0.1	1.6	0.5	3	<0.1	<0.1	<0.2	127	0.11	<1	0.1	<0.1	92	<0.1	<0.1	<0.1	<1	34.12
N255598	Drill Core	7.19	2	3.3	54.8	7.4	70	<0.1	11.7	14.8	1306	4.05	2	2.2	4.6	192	<0.1	0.5	<0.1	129	2.23
N255599	Drill Core	7.63	3	3.5	53.2	8.0	68	<0.1	11.2	15.1	1469	4.16	2	2.3	5.2	203	<0.1	0.5	<0.1	132	2.21
N255600	Drill Core	8.15	3	4.8	54.1	16.4	113	<0.1	10.4	16.7	1267	4.89	2	1.5	3.2	162	0.2	0.5	<0.1	153	1.95
N255601	Drill Core	6.80	6	6.8	64.9	34.0	208	<0.1	6.7	19.5	1216	5.54	2	0.9	1.8	151	0.4	0.4	<0.1	161	1.36
N255602	Drill Core	7.87	4	4.0	54.4	12.5	120	<0.1	16.0	19.2	1369	4.80	2	1.5	3.0	205	0.1	0.5	<0.1	166	2.37
N255603	Drill Core	7.29	2	3.1	57.5	7.6	72	<0.1	14.3	16.7	1494	4.49	2	2.1	4.7	229	<0.1	0.4	<0.1	146	2.57
N255604	Drill Core	7.54	2	3.1	56.0	8.0	67	<0.1	11.2	15.6	730	4.50	5	2.5	4.4	171	0.2	1.1	<0.1	138	1.25
N255605	Drill Core	8.22	<2	2.5	76.1	12.0	61	<0.1	8.9	15.7	414	4.67	2	2.8	7.3	188	<0.1	1.8	0.2	137	1.42
N255606	Drill Core	8.13	3	2.1	176.7	24.9	194	<0.1	8.8	19.2	409	5.18	12	3.8	5.4	128	0.9	5.2	0.8	158	2.77
N255607	Drill Core	8.14	3	1.4	77.4	11.6	111	<0.1	6.5	13.7	841	4.19	6	2.4	3.9	84	0.5	2.0	0.4	116	3.28
N255608	Drill Core	7.51	3	1.9	86.6	20.8	82	<0.1	11.8	17.4	302	4.84	9	1.4	2.7	95	0.5	1.5	0.2	148	4.73
N255609	Drill Core	8.07	3	5.4	64.3	16.9	163	<0.1	11.1	19.7	302	4.34	17	1.2	2.2	91	0.4	0.8	0.2	125	4.34
N255610	Drill Core	3.95	3	4.5	49.3	19.9	163	<0.1	2.5	14.7	438	3.90	12	0.6	1.5	96	0.4	0.7	<0.1	99	4.50
N255612	Drill Core	8.24	3	3.3	61.7	22.8	178	<0.1	5.2	20.8	449	5.46	6	0.5	1.2	99	0.3	0.5	<0.1	130	2.63
N255613	Drill Core	8.04	2	3.7	51.4	12.7	111	<0.1	9.8	14.8	1191	4.44	7	1.3	2.4	85	0.2	0.4	<0.1	133	3.37
N255614	Drill Core	7.64	2	3.8	82.6	10.9	85	<0.1	16.0	18.2	976	4.60	7	1.6	2.4	82	<0.1	0.7	<0.1	149	2.29



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255584	Drill Core	0.076	13.0	14	1.68	28	0.267	7.47	0.059	2.72	0.6	125.1	31	3.0	23.9	5.0	0.4	1	19	6.1	5.7
N255585	Drill Core	0.073	10.1	25	1.64	73	0.430	7.69	1.737	1.82	0.6	144.2	24	1.7	17.1	8.0	0.5	<1	16	11.2	1.6
N255586	Drill Core	0.077	11.3	27	1.69	73	0.418	7.85	1.777	2.10	0.6	133.5	28	1.7	19.0	7.9	0.5	<1	16	10.6	1.8
N255587	Drill Core	0.071	18.9	17	1.63	915	0.442	8.72	2.047	2.45	0.6	145.0	43	1.3	29.4	9.2	0.6	1	15	10.9	0.6
N255588	Drill Core	0.057	11.1	28	1.91	30	0.370	7.20	1.956	2.56	1.0	139.7	27	1.0	18.3	7.4	0.5	1	14	10.5	2.7
N255589	Drill Core	0.064	13.2	21	2.43	100	0.398	7.17	2.619	2.90	0.5	138.7	31	1.3	22.5	7.7	0.5	<1	16	10.3	1.2
N255590	Rock Pulp	0.064	14.6	31	0.76	669	0.142	5.78	1.658	1.59	4.4	20.8	23	2.8	8.8	1.7	<0.1	<1	6	11.1	0.6
N255591	Drill Core	0.065	13.0	23	2.38	41	0.406	7.29	2.752	2.79	0.6	132.7	31	1.4	24.8	7.9	0.5	<1	16	10.9	1.8
N255592	Drill Core	0.071	14.9	21	2.19	29	0.390	8.13	2.441	3.02	39.1	151.3	35	2.3	26.3	8.4	0.5	<1	17	10.3	3.1
N255593	Drill Core	0.060	15.1	18	2.03	22	0.363	7.98	2.149	3.13	0.6	150.3	35	1.2	25.2	8.0	0.5	<1	16	8.0	3.8
N255594	Drill Core	0.072	10.9	20	2.06	39	0.416	6.88	2.281	3.13	0.5	143.8	28	1.2	22.0	8.7	0.5	<1	16	8.8	3.9
N255595	Drill Core	0.070	10.1	18	1.98	36	0.382	6.81	2.342	2.91	0.5	148.2	25	1.2	20.4	8.3	0.5	<1	14	8.0	3.4
N255596	Drill Core	0.063	12.2	18	2.00	28	0.383	6.79	2.307	3.38	0.7	151.1	30	1.2	22.5	8.5	0.6	<1	15	7.2	3.9
N255597	Rock	0.007	1.3	<1	1.73	16	0.006	0.05	0.025	0.02	<0.1	1.6	1	0.1	2.4	0.1	<0.1	<1	<1	0.7	<0.1
N255598	Drill Core	0.063	11.3	18	1.91	44	0.391	7.04	2.268	2.86	0.5	143.7	29	1.3	23.0	8.8	0.6	<1	14	7.4	4.1
N255599	Drill Core	0.066	12.8	18	2.09	28	0.402	7.64	2.464	2.37	0.6	150.0	31	1.2	25.0	8.9	0.6	1	16	9.4	3.3
N255600	Drill Core	0.082	10.7	13	1.93	18	0.411	8.30	1.651	2.11	0.6	92.3	27	1.9	20.8	6.7	0.4	<1	17	8.4	4.5
N255601	Drill Core	0.109	11.2	7	1.83	31	0.499	10.64	1.259	2.45	0.7	53.8	28	3.3	19.0	6.2	0.4	<1	18	9.7	4.6
N255602	Drill Core	0.080	10.0	23	2.06	21	0.441	6.84	1.697	1.37	0.4	86.6	24	1.7	19.8	6.6	0.4	<1	17	9.8	5.0
N255603	Drill Core	0.067	11.6	23	2.40	26	0.395	7.59	1.773	1.50	0.5	131.3	28	1.1	22.7	7.8	0.5	<1	16	8.4	4.2
N255604	Drill Core	0.070	10.0	15	1.93	15	0.397	6.52	1.785	1.34	0.4	133.4	25	1.5	18.1	8.1	0.6	<1	14	6.8	5.9
N255605	Drill Core	0.068	17.3	12	1.47	864	0.366	8.80	0.828	1.60	0.6	167.3	36	2.6	29.5	8.2	0.5	<1	19	4.5	5.9
N255606	Drill Core	0.049	13.3	11	1.34	16	0.371	10.14	0.144	2.09	0.5	185.5	34	2.2	36.3	9.5	0.6	2	26	7.3	7.7
N255607	Drill Core	0.049	9.0	7	1.75	16	0.303	6.20	0.096	1.56	0.3	146.9	24	1.6	23.9	7.6	0.5	2	17	6.7	7.5
N255608	Drill Core	0.062	7.7	15	0.83	12	0.349	6.18	0.154	1.60	0.4	98.5	20	3.2	21.9	6.3	0.4	2	17	4.3	9.6
N255609	Drill Core	0.080	7.9	16	1.16	38	0.312	6.88	0.082	1.51	0.8	85.9	20	2.4	18.4	5.5	0.3	<1	16	7.1	8.2
N255610	Drill Core	0.125	9.1	3	1.34	44	0.314	7.93	0.080	1.77	0.7	38.4	22	2.2	15.3	4.8	0.3	1	14	4.1	7.7
N255612	Drill Core	0.093	6.8	6	1.10	30	0.314	8.21	0.126	1.94	0.6	35.2	17	2.6	13.4	4.0	0.2	<1	15	5.2	8.0
N255613	Drill Core	0.076	7.5	14	1.87	17	0.345	6.43	0.105	1.40	0.6	90.3	19	1.9	15.5	6.0	0.4	<1	13	7.6	6.5
N255614	Drill Core	0.084	6.5	24	2.36	15	0.386	6.29	0.082	1.24	0.5	100.7	18	1.9	15.5	6.5	0.4	1	14	9.7	6.6



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255584	Drill Core	75.8	3.5	0.25	0.015	16	0.8	1.2
N255585	Drill Core	56.1	3.9	0.07	0.013	9	1.7	0.8
N255586	Drill Core	56.5	3.5	0.06	0.012	5	1.4	0.8
N255587	Drill Core	57.7	4.3	0.10	<0.005	3	<0.5	0.7
N255588	Drill Core	55.9	3.9	0.08	0.017	5	<0.5	0.6
N255589	Drill Core	51.9	3.8	0.06	0.013	3	<0.5	<0.5
N255590	Rock Pulp	35.0	0.7	0.21	0.305	2	2.8	<0.5
N255591	Drill Core	51.0	3.4	0.07	0.031	3	<0.5	0.5
N255592	Drill Core	69.6	4.3	<0.05	0.020	4	0.9	<0.5
N255593	Drill Core	74.8	3.7	0.07	0.013	6	<0.5	<0.5
N255594	Drill Core	58.0	4.1	0.05	<0.005	4	0.8	<0.5
N255595	Drill Core	46.1	4.2	<0.05	<0.005	4	1.1	0.6
N255596	Drill Core	66.0	4.4	<0.05	<0.005	4	1.2	<0.5
N255597	Rock	0.3	<0.1	<0.05	<0.005	<1	2.0	<0.5
N255598	Drill Core	59.7	4.2	<0.05	<0.005	5	1.4	0.5
N255599	Drill Core	63.3	4.1	0.08	<0.005	4	1.1	<0.5
N255600	Drill Core	54.9	2.6	0.09	0.018	5	0.6	0.6
N255601	Drill Core	64.7	1.6	0.08	<0.005	2	0.7	0.7
N255602	Drill Core	32.1	2.4	0.09	<0.005	5	0.5	0.6
N255603	Drill Core	40.9	3.5	<0.05	<0.005	2	0.8	<0.5
N255604	Drill Core	40.0	3.7	0.09	<0.005	3	1.5	0.6
N255605	Drill Core	59.9	5.3	0.08	<0.005	10	1.1	0.9
N255606	Drill Core	37.0	5.0	0.31	<0.005	36	2.6	1.6
N255607	Drill Core	17.1	3.8	0.16	<0.005	23	1.6	1.4
N255608	Drill Core	21.3	2.7	0.33	0.005	19	1.5	1.5
N255609	Drill Core	18.9	2.4	0.16	<0.005	24	1.3	1.9
N255610	Drill Core	32.0	1.0	0.09	<0.005	19	1.5	2.0
N255612	Drill Core	25.5	1.1	0.13	0.008	17	1.2	2.3
N255613	Drill Core	15.2	2.4	0.05	<0.005	20	1.0	1.7
N255614	Drill Core	16.3	2.8	<0.05	<0.005	16	0.9	2.2



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Method Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255615	Rock Pulp	0.06	223	376.0	1849.6	23.6	52	12.2	13.3	9.1	751	3.46	12	1.0	1.7	415	0.1	33.5	2.0	84	2.49
N255616	Drill Core	7.76	3	10.4	57.0	23.6	146	<0.1	4.2	16.9	314	4.92	4	0.4	0.8	99	0.7	0.8	<0.1	121	2.19
N255617	Drill Core	8.82	4	24.8	77.2	14.0	177	<0.1	7.8	19.2	209	5.79	<1	0.4	1.0	101	0.4	0.8	0.1	125	3.10
N255618	Drill Core	3.82	4	25.7	71.7	15.8	257	<0.1	6.6	18.9	193	5.35	4	0.6	1.3	99	0.8	1.0	<0.1	122	2.95
N255620	Drill Core	7.55	4	50.0	67.7	14.5	189	<0.1	5.1	18.3	198	4.68	8	0.5	1.4	120	0.6	0.9	<0.1	114	4.35
N255621	Drill Core	8.47	3	39.5	48.5	15.7	150	<0.1	6.2	20.2	166	4.68	4	0.5	1.3	150	0.5	0.7	<0.1	124	4.85
N255622	Drill Core	7.98	3	22.0	45.9	15.4	118	<0.1	6.8	20.3	145	3.80	1	0.4	1.2	214	0.4	0.7	<0.1	119	4.73
N255623	Drill Core	7.60	3	9.6	40.8	16.5	135	<0.1	4.9	16.3	140	4.58	<1	0.3	0.7	191	0.5	0.5	<0.1	116	3.99
N255624	Rock Pulp	0.06	186	379.1	1913.0	25.8	57	12.6	15.6	9.5	767	3.54	13	0.9	2.0	405	0.2	37.2	2.2	85	2.64
N255625	Drill Core	8.23	3	6.3	90.6	22.1	64	<0.1	4.4	13.8	64	4.92	2	0.4	1.0	261	0.1	0.9	0.3	110	4.37
N255626	Drill Core	8.14	3	4.5	46.6	18.8	22	<0.1	5.2	14.1	39	4.76	<1	0.3	1.1	235	<0.1	0.3	0.3	111	3.67
N255627	Drill Core	6.60	2	5.2	35.1	23.2	26	<0.1	6.9	15.8	27	4.48	<1	0.4	1.7	395	<0.1	0.2	0.5	104	6.56
N255628	Drill Core	7.20	2	8.2	29.2	31.8	34	<0.1	7.1	16.3	41	4.73	<1	0.5	1.6	409	<0.1	0.1	0.7	106	5.27
N255629	Drill Core	8.25	2	9.7	35.5	31.9	123	<0.1	7.4	16.9	35	4.85	<1	0.6	1.3	331	0.2	0.2	0.6	119	3.13
N255630	Drill Core	8.68	4	4.2	50.3	61.1	212	<0.1	7.2	17.8	165	5.10	1	0.7	1.7	153	1.0	0.4	0.3	156	2.91
N255631	Drill Core	3.92	4	4.3	50.3	40.8	146	<0.1	7.1	16.9	197	4.76	4	0.6	1.3	169	1.0	0.4	0.3	148	3.57
N255633	Drill Core	7.49	10	8.4	61.3	29.9	304	<0.1	9.2	20.3	430	4.97	11	0.7	0.9	89	2.8	1.2	0.4	183	1.01
N255634	Drill Core	8.02	10	6.6	45.5	27.1	101	<0.1	6.3	17.2	300	5.12	5	0.7	0.8	92	0.4	1.3	0.2	173	0.53
N255635	Drill Core	8.51	12	7.8	37.1	35.1	62	<0.1	11.9	20.8	151	4.76	10	0.8	1.3	275	0.4	1.5	0.3	170	0.39
N255636	Drill Core	7.96	7	6.6	40.1	62.9	6	<0.1	6.7	19.7	38	5.50	11	1.1	3.0	431	0.1	1.2	0.6	140	0.27
N255637	Drill Core	8.76	7	8.5	41.6	59.6	22	<0.1	6.5	18.4	45	5.20	32	1.2	3.0	620	0.2	2.9	0.9	151	0.23
N255638	Drill Core	8.86	10	6.1	52.0	39.4	33	<0.1	6.4	21.3	46	4.88	16	1.2	2.4	333	0.2	1.7	1.0	172	0.37
N255639	Rock	2.29	<2	<0.1	1.2	0.9	2	<0.1	<0.1	<0.2	131	0.11	3	0.1	<0.1	82	<0.1	<0.1	<0.1	2	36.00
N255640	Drill Core	8.68	12	6.1	79.9	51.0	78	<0.1	6.5	18.4	43	5.40	15	1.4	2.2	243	0.8	1.4	0.6	176	0.35
N255641	Drill Core	8.42	15	9.0	79.2	54.8	94	<0.1	7.0	18.4	62	5.45	24	1.3	2.2	305	0.8	2.3	0.7	170	0.38
N255642	Drill Core	8.16	13	6.2	72.1	46.2	66	<0.1	6.6	18.9	55	4.79	11	1.5	2.3	240	0.6	1.2	1.6	171	0.28
N255643	Drill Core	8.26	11	4.7	127.8	17.6	168	0.1	14.3	24.9	378	5.99	8	1.3	1.5	86	0.8	1.2	0.2	201	0.41
N255644	Rock Pulp	0.06	640	310.7	3822.5	27.3	101	14.3	23.4	68.4	1370	4.54	1792	2.1	1.4	441	0.8	43.3	14.8	57	5.50
N255645	Drill Core	8.89	9	4.9	87.9	35.0	50	<0.1	15.5	25.1	226	5.54	5	1.3	1.9	207	0.3	1.2	0.4	206	0.42
N255646	Drill Core	7.92	14	3.7	106.0	17.9	87	<0.1	18.7	24.0	211	5.81	6	1.4	1.7	92	0.3	1.4	0.3	223	0.38



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		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255615	Rock Pulp	0.049	6.1	18	0.81	689	0.190	6.05	2.076	1.77	1.7	9.2	14	2.7	9.7	2.5	0.2	1	8	8.5	0.3
N255616	Drill Core	0.081	6.7	3	1.47	16	0.327	7.97	0.110	1.36	0.7	20.4	16	3.8	9.4	3.8	0.2	2	13	4.5	7.0
N255617	Drill Core	0.079	5.7	7	1.25	17	0.269	6.78	0.079	1.07	0.9	20.9	15	3.9	7.5	2.9	0.2	1	14	3.8	8.3
N255618	Drill Core	0.053	7.0	6	1.13	18	0.258	7.26	0.102	1.39	0.9	32.4	18	4.9	8.7	3.1	0.2	2	15	2.4	7.8
N255620	Drill Core	0.084	9.4	7	1.29	62	0.251	8.17	0.094	1.17	1.0	31.7	21	4.7	8.2	3.2	0.2	<1	14	3.1	8.5
N255621	Drill Core	0.080	9.1	7	1.26	59	0.268	8.52	0.088	1.24	0.9	30.6	22	4.4	9.5	3.1	0.2	<1	16	2.9	8.9
N255622	Drill Core	0.079	10.2	7	1.25	48	0.266	8.56	0.075	1.06	0.7	17.4	23	4.9	8.6	3.0	0.2	1	14	3.4	7.8
N255623	Drill Core	0.085	6.4	5	0.97	32	0.272	6.54	0.074	0.99	0.6	14.9	16	4.6	6.5	2.9	0.2	<1	11	2.7	7.9
N255624	Rock Pulp	0.049	6.6	17	0.83	728	0.200	6.31	2.158	1.75	1.7	9.4	15	2.9	10.3	2.5	0.2	<1	9	8.7	0.3
N255625	Drill Core	0.097	7.4	4	0.29	20	0.244	5.24	0.066	0.49	0.3	20.8	18	4.6	9.9	2.7	0.2	<1	10	3.9	8.7
N255626	Drill Core	0.055	6.1	5	0.02	14	0.231	4.34	0.045	0.02	0.3	20.4	15	2.8	7.0	2.5	0.2	<1	8	3.2	7.8
N255627	Drill Core	0.060	9.5	8	0.01	12	0.222	5.49	0.029	<0.01	0.3	24.0	22	2.8	8.8	2.7	0.2	<1	6	4.2	8.7
N255628	Drill Core	0.080	8.7	9	0.02	15	0.216	4.51	0.032	<0.01	0.5	26.9	20	3.1	9.1	2.5	0.2	<1	6	4.1	8.8
N255629	Drill Core	0.081	6.9	9	0.07	16	0.219	5.03	0.044	0.12	0.3	37.3	18	3.1	7.4	2.5	0.2	<1	7	3.0	7.2
N255630	Drill Core	0.084	8.3	7	1.25	22	0.337	8.09	0.043	1.73	0.2	40.9	20	3.9	8.3	3.9	0.3	<1	16	2.2	7.4
N255631	Drill Core	0.077	5.8	9	1.13	20	0.366	6.49	0.067	1.34	0.3	39.9	16	3.5	7.8	4.4	0.3	<1	14	3.1	7.5
N255633	Drill Core	0.067	4.5	12	1.39	17	0.473	7.29	0.265	1.73	0.7	38.3	13	3.5	5.6	4.9	0.3	1	15	4.3	5.8
N255634	Drill Core	0.098	4.5	7	1.39	17	0.453	7.19	0.298	1.84	0.5	38.7	14	3.1	5.5	4.8	0.3	<1	12	4.3	5.6
N255635	Drill Core	0.089	5.8	20	0.69	14	0.416	7.78	0.223	1.38	0.5	45.0	16	5.2	7.1	4.1	0.3	<1	12	3.8	5.1
N255636	Drill Core	0.082	11.6	9	0.03	23	0.363	8.25	0.056	0.07	0.4	67.1	27	6.9	6.7	4.4	0.3	<1	11	5.8	6.0
N255637	Drill Core	0.104	10.3	10	0.06	33	0.389	9.08	0.117	0.46	0.8	61.1	26	9.7	8.1	4.7	0.3	<1	14	5.1	5.5
N255638	Drill Core	0.086	7.6	10	0.11	30	0.446	9.72	0.298	1.96	0.7	60.1	20	9.5	12.8	5.4	0.4	<1	19	1.5	4.7
N255639	Rock	0.007	1.5	<1	1.63	17	0.007	0.09	0.026	0.02	<0.1	2.1	2	0.1	2.6	0.2	<0.1	<1	<1	0.9	<0.1
N255640	Drill Core	0.079	6.6	10	0.14	30	0.460	9.80	0.272	2.47	0.6	62.7	18	7.1	10.8	5.2	0.4	<1	21	1.9	5.4
N255641	Drill Core	0.084	6.5	9	0.23	26	0.444	8.87	0.225	1.67	0.7	65.5	18	7.5	9.2	4.8	0.3	1	19	3.0	5.4
N255642	Drill Core	0.085	6.5	11	0.24	19	0.468	8.11	0.353	1.71	0.5	68.0	17	5.1	7.9	5.4	0.4	1	18	2.3	5.3
N255643	Drill Core	0.076	4.1	18	1.50	15	0.471	6.63	0.296	0.97	0.3	68.4	12	3.8	6.6	5.2	0.3	1	17	5.5	6.5
N255644	Rock Pulp	0.058	15.4	33	0.73	666	0.142	5.69	1.626	1.53	3.9	20.3	23	3.2	8.7	1.7	0.1	<1	6	10.6	0.6
N255645	Drill Core	0.099	4.6	19	0.97	13	0.458	7.26	0.445	1.19	0.4	67.3	13	4.7	9.3	5.3	0.4	<1	18	3.8	5.4
N255646	Drill Core	0.078	4.8	22	1.24	15	0.481	7.17	0.348	0.92	0.3	67.0	14	3.4	11.0	4.9	0.4	2	19	4.0	5.9



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255615	Rock Pulp	28.5	0.5	<0.05	0.365	<1	1.1	<0.5
N255616	Drill Core	18.1	0.5	0.06	0.019	25	1.0	2.1
N255617	Drill Core	9.0	0.6	0.12	0.039	35	0.7	1.6
N255618	Drill Core	16.4	0.9	0.09	0.075	26	0.9	1.9
N255620	Drill Core	21.0	1.0	0.11	0.186	26	0.9	1.9
N255621	Drill Core	22.0	0.7	0.14	0.238	31	1.0	1.8
N255622	Drill Core	22.7	0.6	0.10	0.192	24	0.8	1.6
N255623	Drill Core	6.5	0.5	0.08	0.114	27	0.6	1.5
N255624	Rock Pulp	29.7	0.6	0.06	0.376	<1	0.9	<0.5
N255625	Drill Core	4.7	0.7	0.06	0.012	28	0.8	0.8
N255626	Drill Core	0.3	0.5	<0.05	0.009	21	0.5	<0.5
N255627	Drill Core	0.1	0.6	<0.05	0.026	19	<0.5	<0.5
N255628	Drill Core	0.5	0.8	<0.05	0.035	20	<0.5	<0.5
N255629	Drill Core	1.1	1.0	<0.05	0.038	20	<0.5	<0.5
N255630	Drill Core	33.3	1.1	0.23	0.048	14	0.5	3.1
N255631	Drill Core	11.9	1.1	0.21	0.106	10	0.8	2.3
N255633	Drill Core	30.6	1.0	0.29	0.028	9	1.9	4.3
N255634	Drill Core	34.3	1.1	0.19	0.017	9	1.0	4.9
N255635	Drill Core	30.1	1.3	0.24	0.035	8	0.7	4.3
N255636	Drill Core	1.3	1.8	<0.05	0.039	11	0.8	<0.5
N255637	Drill Core	9.1	1.7	0.08	0.072	17	1.4	1.2
N255638	Drill Core	50.1	1.7	0.33	0.027	16	1.9	6.3
N255639	Rock	0.5	<0.1	<0.05	<0.005	<1	0.6	<0.5
N255640	Drill Core	61.5	1.9	0.54	0.027	13	1.3	6.6
N255641	Drill Core	43.1	1.9	0.31	0.064	14	2.3	5.0
N255642	Drill Core	40.8	1.9	0.31	0.123	13	1.1	4.8
N255643	Drill Core	15.6	2.0	0.47	0.034	22	2.1	2.7
N255644	Rock Pulp	35.0	0.6	0.17	0.371	6	2.9	<0.5
N255645	Drill Core	22.3	1.9	0.46	0.024	21	2.2	2.6
N255646	Drill Core	14.9	2.2	0.34	0.008	11	2.3	2.5



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255647	Drill Core	7.99	9	5.7	44.9	21.9	52	<0.1	7.1	20.2	57	5.32	8	1.1	1.8	234	0.4	1.3	0.4	167	0.31
N255648	Drill Core	8.15	12	2.6	39.1	16.1	49	<0.1	6.1	21.5	53	5.78	8	1.0	1.9	256	<0.1	1.0	0.4	164	0.28
N255649	Rock Pulp	0.06	183	362.3	1866.4	25.1	58	12.1	14.6	9.1	743	3.46	13	0.8	1.7	410	0.2	32.7	1.9	83	2.57
N255650	Drill Core	7.64	7	3.0	40.0	21.2	109	<0.1	5.8	18.3	31	5.87	3	1.1	2.4	307	0.5	1.2	0.8	162	0.20
N255651	Drill Core	9.80	7	4.9	46.0	31.1	31	<0.1	6.2	22.0	21	6.17	4	1.2	2.3	666	0.2	1.0	0.9	191	0.17
N255652	Drill Core	6.94	7	5.3	49.2	28.0	24	<0.1	6.0	19.5	27	5.33	6	1.1	2.6	708	<0.1	0.9	0.9	165	0.16
N255653	Drill Core	7.42	9	4.5	56.0	33.3	18	<0.1	5.7	18.8	20	5.62	1	1.0	2.3	935	<0.1	0.8	1.0	173	0.12
N255654	Drill Core	7.37	13	3.1	84.6	19.3	88	<0.1	7.7	18.7	39	5.38	9	1.3	2.5	362	0.6	1.2	0.8	142	0.12
N255655	Rock	1.88	3	0.1	1.5	0.7	4	<0.1	<0.1	0.4	130	0.17	<1	0.3	0.2	77	<0.1	0.3	2.3	3	31.73
N255656	Drill Core	7.03	19	4.6	71.7	12.8	116	0.2	7.9	19.3	86	5.09	3	1.3	1.8	258	0.5	0.8	0.3	146	0.09
N255657	Drill Core	7.79	21	4.6	99.8	17.3	104	0.1	7.5	19.8	147	5.07	4	1.3	1.9	73	0.7	0.7	0.4	174	0.09
N255658	Drill Core	6.24	14	4.3	112.4	26.8	45	0.1	7.9	18.9	32	5.54	2	1.5	3.4	451	<0.1	1.0	0.8	138	0.11



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CERTIFICATE OF ANALYSIS

VAN18003344.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255647	Drill Core	0.103	5.8	7	0.53	23	0.419	9.03	0.429	1.75	0.3	56.0	17	2.9	20.2	4.6	0.3	1	18	2.4	5.9
N255648	Drill Core	0.077	8.6	7	0.34	34	0.373	9.53	0.462	1.82	0.3	47.5	22	2.6	32.6	3.7	0.2	<1	19	2.5	6.1
N255649	Rock Pulp	0.051	6.5	17	0.82	677	0.193	6.33	2.107	1.71	1.6	9.5	16	2.5	10.3	2.5	0.1	1	8	8.1	0.3
N255650	Drill Core	0.085	8.4	8	0.13	42	0.351	9.83	0.336	1.75	0.6	47.6	20	2.3	11.6	3.6	0.3	<1	22	3.2	6.4
N255651	Drill Core	0.092	10.0	8	0.07	47	0.356	10.35	0.229	1.65	1.1	49.8	25	3.5	7.5	3.6	0.3	<1	25	3.0	6.7
N255652	Drill Core	0.098	11.3	7	0.04	39	0.350	10.59	0.124	0.78	0.9	44.0	28	4.2	7.1	3.9	0.3	<1	22	4.2	5.8
N255653	Drill Core	0.104	10.1	7	0.03	46	0.316	10.11	0.062	0.49	0.7	42.9	26	3.2	6.6	3.2	0.2	<1	19	4.4	6.2
N255654	Drill Core	0.084	9.4	9	0.16	34	0.265	9.69	0.151	1.71	0.4	64.6	24	2.0	21.3	2.9	0.2	<1	25	2.8	5.9
N255655	Rock	0.007	1.6	<1	1.96	29	0.012	0.27	0.098	0.10	0.3	3.2	2	<0.1	2.8	0.4	<0.1	<1	<1	0.9	<0.1
N255656	Drill Core	0.055	5.4	7	0.89	25	0.289	7.61	0.180	1.65	0.5	59.8	15	1.8	20.9	3.7	0.2	<1	21	2.5	5.6
N255657	Drill Core	0.017	4.9	8	1.12	20	0.301	8.44	0.216	1.68	0.5	67.6	14	2.6	20.6	4.0	0.3	<1	25	3.0	5.6
N255658	Drill Core	0.078	12.2	9	0.06	23	0.265	9.56	0.068	0.58	0.5	67.5	32	4.5	15.4	3.7	0.3	<1	19	1.5	6.4



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	Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255647	Drill Core	44.0	1.9	0.32	0.007	12	1.2	3.2
N255648	Drill Core	48.1	1.5	0.23	0.018	11	2.1	3.3
N255649	Rock Pulp	29.7	0.6	<0.05	0.370	<1	1.0	<0.5
N255650	Drill Core	46.7	1.4	0.34	0.013	15	0.8	2.8
N255651	Drill Core	41.2	1.3	0.19	0.027	16	0.9	2.5
N255652	Drill Core	16.3	1.4	0.09	0.049	18	1.2	1.2
N255653	Drill Core	12.9	1.2	0.16	0.052	12	0.7	0.7
N255654	Drill Core	45.8	1.8	0.47	0.026	20	1.3	2.3
N255655	Rock	2.5	<0.1	<0.05	<0.005	<1	1.7	<0.5
N255656	Drill Core	39.0	1.8	0.34	0.047	15	0.9	2.4
N255657	Drill Core	42.0	2.0	0.28	0.046	17	1.0	2.6
N255658	Drill Core	9.8	1.8	0.26	0.068	29	0.8	0.6



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QUALITY CONTROL REPORT

VAN18003344.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255584	Drill Core	5.99	4	4.1	90.9	13.2	75	<0.1	11.2	21.0	579	5.54	<1	2.2	4.5	37	0.3	0.6	<0.1	130	1.83
REP N255584	QC			4.3	99.5	13.5	68	<0.1	11.6	21.0	600	5.50	<1	2.3	4.3	36	0.2	0.5	<0.1	133	1.83
N255589	Drill Core	6.97	3	2.9	54.9	6.8	87	<0.1	15.1	18.7	1693	4.29	2	2.3	4.4	194	0.1	0.2	<0.1	138	0.96
REP N255589	QC		2																		
N255623	Drill Core	7.60	3	9.6	40.8	16.5	135	<0.1	4.9	16.3	140	4.58	<1	0.3	0.7	191	0.5	0.5	<0.1	116	3.99
REP N255623	QC		3																		
N255649	Rock Pulp	0.06	183	362.3	1866.4	25.1	58	12.1	14.6	9.1	743	3.46	13	0.8	1.7	410	0.2	32.7	1.9	83	2.57
REP N255649	QC			362.9	1875.2	25.5	57	12.7	14.2	9.4	765	3.48	12	0.9	1.8	417	0.2	34.9	2.1	82	2.62
N255654	Drill Core	7.37	13	3.1	84.6	19.3	88	<0.1	7.7	18.7	39	5.38	9	1.3	2.5	362	0.6	1.2	0.8	142	0.12
REP N255654	QC		13																		
N255658	Drill Core	6.24	14	4.3	112.4	26.8	45	0.1	7.9	18.9	32	5.54	2	1.5	3.4	451	<0.1	1.0	0.8	138	0.11
REP N255658	QC			4.1	107.1	26.4	43	<0.1	8.0	19.1	33	5.35	<1	1.5	3.3	448	<0.1	0.9	0.8	135	0.12
Core Reject Duplicates																					
N255585	Drill Core	6.78	3	3.4	57.9	9.5	76	<0.1	12.4	13.4	531	5.23	4	2.3	4.5	121	0.1	0.2	<0.1	156	0.39
DUP N255585	QC		3	4.2	62.0	9.9	75	<0.1	12.5	12.8	504	5.25	3	2.5	4.9	132	0.2	0.2	<0.1	154	0.40
N255621	Drill Core	8.47	3	39.5	48.5	15.7	150	<0.1	6.2	20.2	166	4.68	4	0.5	1.3	150	0.5	0.7	<0.1	124	4.85
DUP N255621	QC		4	33.9	48.8	14.2	161	<0.1	5.9	20.3	166	4.44	4	0.4	1.4	139	0.5	0.6	<0.1	123	4.34
N255656	Drill Core	7.03	19	4.6	71.7	12.8	116	0.2	7.9	19.3	86	5.09	3	1.3	1.8	258	0.5	0.8	0.3	146	0.09
DUP N255656	QC		19	4.3	76.1	13.8	116	0.2	7.1	20.1	85	5.41	4	1.3	2.0	276	0.5	0.7	0.4	157	0.09
Reference Materials																					
STD OREAS25A-4A	Standard			2.3	32.2	25.0	43	<0.1	43.5	7.9	520	6.45	10	2.8	14.1	48	<0.1	0.7	0.3	165	0.27
STD OREAS25A-4A	Standard			2.3	33.3	26.7	42	<0.1	46.2	7.6	503	6.86	9	3.1	16.5	44	<0.1	0.8	0.4	162	0.30
STD OREAS25A-4A	Standard			2.8	36.7	26.9	42	<0.1	48.0	8.4	494	6.77	10	3.1	16.0	46	<0.1	0.7	0.4	164	0.29
STD OREAS25A-4A	Standard			2.5	33.4	25.3	45	<0.1	47.4	7.5	468	6.59	11	3.0	15.9	43	<0.1	0.6	0.4	161	0.27
STD OREAS45E	Standard			2.4	776.4	18.7	46	0.3	450.0	59.3	596	24.72	16	2.5	12.3	17	0.1	1.3	0.3	311	0.07
STD OREAS45E	Standard			2.4	764.6	19.1	44	0.3	486.2	59.1	572	25.77	16	2.5	13.4	16	<0.1	1.1	0.4	332	0.07
STD OREAS45E	Standard			2.7	795.5	19.9	42	0.3	465.8	60.2	623	25.71	16	2.7	13.2	17	<0.1	1.2	0.4	317	0.07
STD OREAS45E	Standard			2.3	770.2	18.5	46	0.3	473.7	56.2	554	23.70	16	2.4	12.6	16	<0.1	1.0	0.3	330	0.07



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 13, 2018

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QUALITY CONTROL REPORT

VAN18003344.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255584	Drill Core	0.076	13.0	14	1.68	28	0.267	7.47	0.059	2.72	0.6	125.1	31	3.0	23.9	5.0	0.4	1	19	6.1	5.7
REP N255584	QC	0.080	13.6	15	1.68	33	0.270	7.34	0.064	2.86	1.0	128.8	32	3.1	24.2	5.2	0.3	1	18	5.6	5.7
N255589	Drill Core	0.064	13.2	21	2.43	100	0.398	7.17	2.619	2.90	0.5	138.7	31	1.3	22.5	7.7	0.5	<1	16	10.3	1.2
REP N255589	QC																				
N255623	Drill Core	0.085	6.4	5	0.97	32	0.272	6.54	0.074	0.99	0.6	14.9	16	4.6	6.5	2.9	0.2	<1	11	2.7	7.9
REP N255623	QC																				
N255649	Rock Pulp	0.051	6.5	17	0.82	677	0.193	6.33	2.107	1.71	1.6	9.5	16	2.5	10.3	2.5	0.1	1	8	8.1	0.3
REP N255649	QC	0.046	6.9	17	0.83	689	0.198	6.44	2.111	1.76	1.5	9.0	17	2.9	10.7	2.5	0.2	1	8	8.5	0.3
N255654	Drill Core	0.084	9.4	9	0.16	34	0.265	9.69	0.151	1.71	0.4	64.6	24	2.0	21.3	2.9	0.2	<1	25	2.8	5.9
REP N255654	QC																				
N255658	Drill Core	0.078	12.2	9	0.06	23	0.265	9.56	0.068	0.58	0.5	67.5	32	4.5	15.4	3.7	0.3	<1	19	1.5	6.4
REP N255658	QC	0.077	12.4	9	0.06	26	0.262	9.42	0.066	0.56	0.6	67.0	31	4.4	13.8	3.7	0.3	<1	18	1.2	6.2
Core Reject Duplicates																					
N255585	Drill Core	0.073	10.1	25	1.64	73	0.430	7.69	1.737	1.82	0.6	144.2	24	1.7	17.1	8.0	0.5	<1	16	11.2	1.6
DUP N255585	QC	0.076	10.3	26	1.63	86	0.432	7.86	1.719	1.93	0.7	151.0	24	1.6	17.1	8.3	0.6	<1	17	11.7	1.6
N255621	Drill Core	0.080	9.1	7	1.26	59	0.268	8.52	0.088	1.24	0.9	30.6	22	4.4	9.5	3.1	0.2	<1	16	2.9	8.9
DUP N255621	QC	0.073	9.1	6	1.24	52	0.257	8.37	0.092	1.27	0.9	25.4	21	4.3	8.4	2.8	0.2	<1	15	2.2	8.3
N255656	Drill Core	0.055	5.4	7	0.89	25	0.289	7.61	0.180	1.65	0.5	59.8	15	1.8	20.9	3.7	0.2	<1	21	2.5	5.6
DUP N255656	QC	0.056	6.1	9	0.94	22	0.285	8.14	0.199	1.73	0.5	59.9	17	1.8	25.8	3.3	0.2	<1	23	2.8	5.9
Reference Materials																					
STD OREAS25A-4A	Standard	0.047	16.8	116	0.31	142	0.960	8.33	0.117	0.48	1.9	151.3	39	3.6	9.5	19.9	1.5	2	11	39.0	<0.1
STD OREAS25A-4A	Standard	0.052	22.2	120	0.36	160	0.937	9.30	0.136	0.50	2.6	161.0	51	4.4	10.9	21.7	1.5	<1	13	40.2	<0.1
STD OREAS25A-4A	Standard	0.050	20.1	124	0.36	154	0.949	9.19	0.139	0.50	2.3	159.8	47	4.2	10.1	20.8	1.6	<1	12	40.5	<0.1
STD OREAS25A-4A	Standard	0.052	19.9	121	0.31	142	0.934	8.95	0.114	0.50	2.0	160.7	43	4.2	9.6	20.6	1.5	<1	11	41.5	<0.1
STD OREAS45E	Standard	0.034	8.2	1051	0.15	239	0.533	6.88	0.056	0.33	0.9	95.6	20	1.3	7.2	6.3	0.5	<1	89	6.9	<0.1
STD OREAS45E	Standard	0.037	11.4	988	0.17	259	0.537	6.86	0.062	0.36	1.1	99.4	26	1.4	7.8	6.3	0.5	<1	94	6.7	<0.1
STD OREAS45E	Standard	0.032	9.2	1064	0.17	255	0.541	7.02	0.060	0.34	1.0	94.7	22	1.4	6.9	6.3	0.5	<1	94	6.8	<0.1
STD OREAS45E	Standard	0.034	8.1	986	0.14	239	0.528	6.82	0.050	0.33	1.0	97.0	19	1.3	6.6	6.1	0.5	<1	87	6.7	<0.1



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QUALITY CONTROL REPORT

VAN18003344.1

Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255584	Drill Core	75.8	3.5	0.25	0.015	16	0.8	1.2
REP N255584	QC	77.6	3.5	0.26	0.022	18	0.8	1.2
N255589	Drill Core	51.9	3.8	0.06	0.013	3	<0.5	<0.5
REP N255589	QC							
N255623	Drill Core	6.5	0.5	0.08	0.114	27	0.6	1.5
REP N255623	QC							
N255649	Rock Pulp	29.7	0.6	<0.05	0.370	<1	1.0	<0.5
REP N255649	QC	31.1	0.5	0.11	0.363	<1	0.9	<0.5
N255654	Drill Core	45.8	1.8	0.47	0.026	20	1.3	2.3
REP N255654	QC							
N255658	Drill Core	9.8	1.8	0.26	0.068	29	0.8	0.6
REP N255658	QC	9.7	2.0	0.31	0.065	30	0.7	0.6
Core Reject Duplicates								
N255585	Drill Core	56.1	3.9	0.07	0.013	9	1.7	0.8
DUP N255585	QC	57.4	3.8	0.06	0.009	10	1.7	0.7
N255621	Drill Core	22.0	0.7	0.14	0.238	31	1.0	1.8
DUP N255621	QC	24.9	0.7	0.12	0.228	28	1.4	1.7
N255656	Drill Core	39.0	1.8	0.34	0.047	15	0.9	2.4
DUP N255656	QC	40.3	1.7	0.35	0.032	15	0.9	2.4
Reference Materials								
STD OREAS25A-4A	Standard	50.6	4.0	0.05	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	65.0	4.4	0.12	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	59.4	4.3	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	57.3	4.2	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.3	2.7	0.05	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.0	2.9	0.15	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.4	3.1	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.1	2.7	0.07	<0.005	2	0.5	<0.5



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QUALITY CONTROL REPORT

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXC145	Standard		203																		
STD OXC145	Standard		208																		
STD OXC145	Standard		220																		
STD OXH139	Standard		1253																		
STD OXH139	Standard		1323																		
STD OXH139 Expected			1312																		
STD OXC145 Expected			212																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank			<0.1	0.3	0.2	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		6	0.7	4.0	4.2	35	<0.1	1.1	4.2	666	2.27	2	1.1	2.8	228	<0.1	0.2	0.2	37	1.81
ROCK-VAN	Prep Blank		3	0.5	3.4	3.6	33	<0.1	0.8	3.9	627	2.21	2	1.1	2.8	212	<0.1	0.2	0.2	36	1.78



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139 Expected																						
STD OXC145 Expected																						
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.043	11.2	3	0.45	757	0.206	6.70	3.226	1.80	0.3	51.4	23	1.1	15.5	5.6	0.4	<1	7	3.6	<0.1	
ROCK-VAN	Prep Blank	0.037	10.9	2	0.44	739	0.198	6.82	3.253	1.78	0.3	48.3	22	1.0	14.4	5.2	0.3	<1	7	3.9	<0.1	



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QUALITY CONTROL REPORT

VAN18003344.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139 Expected								
STD OXC145 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	0.009	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	37.4	1.5	0.07	<0.005	2	<0.5	<0.5
ROCK-VAN	Prep Blank	41.6	1.5	<0.05	<0.005	<1	<0.5	<0.5



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Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: November 20, 2018

Report Date: December 13, 2018

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CERTIFICATE OF ANALYSIS

VAN18003380.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 68

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	64	Crush, split and pulverize 250 g rock to 200 mesh		Completed	VAN
SLBHP	4	Sort, label and box pulps			VAN
FA350-Au	68	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	68	Environmental disposal charge-Fire assay lead waste			VAN
MA200	68	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



LILYBETH DE VERA-BOY
Fire Assay Spectroscopy Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255515	Drill Core	4.29	23	3.0	15.7	17.4	<1	0.2	0.5	0.5	33	0.49	5	2.7	5.4	521	<0.1	5.4	4.6	60	0.05
N255516	Drill Core	4.54	7	3.1	11.6	33.3	<1	0.1	0.4	0.3	30	0.41	5	3.0	6.0	698	<0.1	3.1	6.8	82	0.06
N255517	Drill Core	5.42	10	6.3	117.5	35.8	27	<0.1	14.9	23.0	62	6.39	8	2.1	4.8	327	0.1	1.2	11.3	214	0.06
N255518	Drill Core	4.50	39	10.3	75.6	29.9	1	0.3	3.7	5.7	31	6.06	22	2.2	5.0	513	<0.1	1.0	7.1	234	0.05
N255519	Drill Core	6.44	5	6.1	113.2	13.1	31	<0.1	11.3	17.6	25	5.74	12	1.9	4.2	331	0.5	0.8	1.8	187	0.04
N255520	Drill Core	8.36	3	3.5	89.7	10.2	74	<0.1	12.8	18.2	24	5.95	8	2.1	4.3	216	0.8	0.5	1.2	170	0.04
N255521	Drill Core	8.94	7	3.5	116.4	8.0	17	<0.1	12.1	21.3	96	6.53	13	2.1	4.6	252	0.2	1.0	1.0	192	0.04
N255522	Drill Core	6.37	12	5.9	85.7	10.1	8	0.1	7.0	11.3	44	5.84	19	2.4	5.6	177	<0.1	0.8	1.4	215	0.05
N255523	Drill Core	6.56	8	8.2	94.2	8.3	8	<0.1	11.6	19.3	71	5.87	17	2.1	4.6	138	<0.1	0.7	0.9	215	0.04
N255524	Drill Core	7.49	15	4.2	100.3	7.3	9	<0.1	14.3	21.0	112	6.23	9	2.0	4.4	296	0.2	1.1	0.9	197	0.04
N255525	Drill Core	7.47	5	5.0	94.3	10.3	10	<0.1	10.7	15.6	39	5.54	13	2.0	4.5	445	<0.1	0.6	2.0	212	0.06
N255526	Drill Core	4.30	5	3.9	98.3	15.5	34	0.2	7.5	7.3	20	6.21	24	1.9	4.5	441	0.3	0.8	3.4	218	0.08
N255527	Rock	2.26	<2	<0.1	2.0	0.8	3	<0.1	0.9	<0.2	146	0.10	3	1.3	0.3	88	<0.1	<0.1	<0.1	<1	30.07
N255528	Drill Core	3.18	10	7.6	60.0	22.4	5	0.1	1.2	1.2	24	5.83	31	1.6	4.1	361	<0.1	0.9	1.9	179	0.07
N255529	Drill Core	2.79	9	10.4	183.5	24.7	96	0.2	15.7	8.6	28	6.78	34	2.4	6.0	498	<0.1	1.4	3.6	257	0.11
N255530	Drill Core	2.22	11	7.3	82.3	18.6	6	0.2	3.0	4.4	21	5.99	23	2.4	5.6	444	0.1	1.0	4.0	218	0.08
N255531	Drill Core	5.15	6	5.6	138.2	69.3	15	0.1	12.2	18.0	17	5.89	42	3.6	7.4	428	<0.1	0.7	5.7	319	0.10
N255532	Drill Core	6.82	6	7.4	174.0	62.3	6	0.1	17.0	27.4	20	7.16	23	1.0	4.7	405	0.1	0.7	3.7	148	0.07
N255533	Drill Core	2.63	4	5.7	149.8	32.9	7	<0.1	15.7	26.2	28	6.07	11	1.3	4.0	409	<0.1	0.7	2.2	86	0.05
N255534	Drill Core	5.68	5	17.0	201.5	37.3	9	<0.1	22.3	26.3	29	8.34	29	1.7	5.1	314	0.2	1.1	2.5	152	0.06
N255535	Drill Core	4.84	6	27.1	174.5	38.0	9	<0.1	28.3	32.2	40	7.82	10	1.5	5.4	812	<0.1	1.1	1.6	51	0.09
N255536	Drill Core	3.03	5	10.6	23.4	15.3	2	<0.1	0.6	0.8	34	0.93	27	1.2	2.3	426	<0.1	0.7	0.7	42	0.04
N255537	Drill Core	4.74	6	9.8	253.1	9.8	15	<0.1	14.1	18.1	33	5.23	32	1.6	2.5	167	0.2	0.4	0.8	132	0.04
N255538	Drill Core	5.43	7	5.8	426.1	15.1	45	0.1	21.6	26.0	34	5.91	13	1.7	3.1	74	0.9	0.6	1.5	197	0.11
N255539	Drill Core	5.93	7	6.5	413.4	12.6	9	<0.1	26.5	31.5	20	6.55	9	1.7	3.3	150	<0.1	0.4	0.9	197	0.10
N255540	Drill Core	5.65	4	3.2	160.8	9.8	22	<0.1	13.7	24.6	15	5.49	6	2.0	4.7	37	<0.1	0.5	0.1	198	0.67
N255541	Drill Core	7.37	4	3.0	87.6	12.5	25	<0.1	13.4	23.2	17	8.94	3	1.7	3.6	16	<0.1	0.5	<0.1	168	0.39
N255542	Drill Core	7.08	6	20.7	138.6	13.8	26	<0.1	16.2	24.3	25	7.60	12	2.3	4.3	34	<0.1	1.0	0.2	200	0.28
N255543	Drill Core	5.21	7	16.6	92.9	4.9	8	<0.1	12.6	18.6	20	4.40	11	1.4	4.4	134	<0.1	0.5	0.2	141	0.18
N255544	Drill Core	6.39	8	2.5	403.9	8.1	5	<0.1	20.2	23.9	26	5.82	12	2.1	4.2	137	<0.1	1.2	0.9	225	0.09



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255515	Drill Core	0.048	6.1	11	0.02	202	0.655	1.83	0.021	0.04	0.8	193.1	11	16.9	9.7	9.7	0.6	<1	7	1.7	<0.1
N255516	Drill Core	0.069	14.1	12	0.02	353	0.710	2.91	0.019	0.04	0.9	190.8	30	15.4	10.6	10.9	0.7	<1	9	4.8	<0.1
N255517	Drill Core	0.080	15.4	22	0.04	14	0.561	9.23	0.016	0.19	0.6	112.7	38	10.9	22.3	8.4	0.5	<1	24	7.0	6.6
N255518	Drill Core	0.100	17.6	22	0.14	54	0.664	8.66	0.039	0.68	0.7	123.1	44	3.0	19.3	9.1	0.6	<1	28	5.1	1.6
N255519	Drill Core	0.053	10.6	15	0.15	18	0.478	8.64	0.048	0.88	0.7	100.7	27	3.4	18.2	7.8	0.5	<1	17	5.8	5.8
N255520	Drill Core	0.049	10.2	13	0.15	14	0.453	8.41	0.054	0.95	0.7	108.3	26	2.3	20.3	7.9	0.5	<1	18	4.8	6.6
N255521	Drill Core	0.061	12.9	15	0.10	14	0.485	9.31	0.034	0.60	0.6	117.0	33	2.2	27.5	8.3	0.6	<1	19	4.1	7.3
N255522	Drill Core	0.067	18.6	19	0.08	135	0.583	9.45	0.034	0.48	0.7	155.1	41	2.6	36.1	9.4	0.6	<1	23	4.1	3.8
N255523	Drill Core	0.052	13.9	20	0.07	19	0.545	8.78	0.021	0.44	0.6	127.3	36	1.6	24.4	8.3	0.6	<1	22	4.1	5.1
N255524	Drill Core	0.062	13.6	19	0.06	22	0.497	9.03	0.015	0.34	0.6	108.2	33	1.3	21.5	7.4	0.5	<1	23	5.6	6.8
N255525	Drill Core	0.072	13.9	19	0.06	35	0.558	8.77	0.022	0.41	0.6	110.3	33	2.0	24.0	7.8	0.5	<1	24	6.8	4.9
N255526	Drill Core	0.094	11.4	19	0.03	66	0.487	8.40	0.025	0.21	0.8	107.5	28	2.4	19.6	6.8	0.4	<1	24	8.1	3.7
N255527	Rock	0.008	1.9	<1	2.38	27	0.006	0.23	0.093	0.10	0.2	4.9	3	0.1	3.3	0.3	<0.1	<1	<1	1.2	<0.1
N255528	Drill Core	0.085	10.1	16	0.05	218	0.533	5.63	0.025	0.37	9.3	111.2	23	4.0	13.7	7.3	0.5	<1	17	3.6	0.5
N255529	Drill Core	0.102	19.0	20	0.05	963	0.575	7.91	0.031	0.35	192.7	143.4	43	3.7	22.5	7.9	0.6	<1	26	4.1	0.2
N255530	Drill Core	0.104	19.2	17	0.05	61	0.617	7.94	0.027	0.42	23.0	143.7	45	2.6	21.4	8.2	0.5	<1	27	4.6	2.2
N255531	Drill Core	0.111	20.6	18	0.02	17	0.340	8.24	0.023	0.26	1.8	98.0	51	5.7	15.4	5.7	0.4	<1	24	6.1	5.2
N255532	Drill Core	0.072	14.6	11	0.01	13	0.184	6.39	0.018	0.12	0.5	64.3	34	4.5	3.4	3.2	0.2	<1	8	4.0	7.8
N255533	Drill Core	0.055	12.3	9	0.01	14	0.179	4.60	0.015	0.03	0.9	87.6	27	5.7	3.6	2.6	0.2	<1	7	3.5	6.5
N255534	Drill Core	0.068	14.9	17	0.01	8	0.283	7.53	0.013	0.04	0.7	83.8	37	9.6	5.4	3.7	0.3	<1	8	5.8	9.4
N255535	Drill Core	0.105	19.1	10	0.01	10	0.159	3.69	0.015	0.03	0.3	77.9	44	6.1	5.4	2.1	0.2	<1	5	3.2	8.6
N255536	Drill Core	0.037	5.5	5	<0.01	553	0.284	2.26	0.009	0.02	0.6	78.0	12	3.3	3.2	3.7	0.2	<1	3	3.9	0.3
N255537	Drill Core	0.029	6.0	16	0.19	10	0.333	5.43	0.044	1.21	0.7	85.5	17	2.8	12.9	5.4	0.4	<1	17	5.1	5.6
N255538	Drill Core	0.019	7.6	22	0.20	11	0.388	7.76	0.050	1.31	0.7	90.7	23	4.0	17.2	5.7	0.4	<1	24	7.8	6.5
N255539	Drill Core	0.037	9.8	22	0.11	11	0.362	8.06	0.030	1.02	0.4	82.1	27	3.2	16.0	5.4	0.4	<1	26	8.4	7.2
N255540	Drill Core	0.075	12.0	17	0.21	21	0.317	8.48	0.034	1.56	0.5	127.4	29	4.3	22.3	4.8	0.4	2	23	13.2	6.0
N255541	Drill Core	0.064	8.8	14	0.19	8	0.202	7.09	0.023	1.67	0.4	118.9	24	4.3	18.8	3.0	0.2	<1	21	10.9	>10
N255542	Drill Core	0.068	11.5	19	0.14	12	0.467	8.34	0.039	1.79	1.6	125.1	29	3.3	21.1	7.8	0.5	<1	25	13.2	8.4
N255543	Drill Core	0.065	9.4	14	0.05	14	0.411	6.12	0.042	0.88	1.0	76.1	27	1.5	9.5	7.3	0.5	<1	15	12.6	4.6
N255544	Drill Core	0.054	13.6	21	0.13	20	0.468	9.46	0.041	1.41	0.8	84.9	32	1.9	18.1	6.9	0.5	<1	31	12.4	6.3



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255515	Drill Core	0.9	5.5	0.08	0.007	<1	0.7	<0.5
N255516	Drill Core	1.2	5.3	0.09	<0.005	2	0.6	<0.5
N255517	Drill Core	4.3	3.4	0.20	0.389	23	2.7	6.5
N255518	Drill Core	17.2	3.5	0.09	0.008	26	3.2	2.9
N255519	Drill Core	20.1	2.9	0.42	0.011	18	1.7	3.6
N255520	Drill Core	21.2	3.1	0.42	0.007	21	1.4	3.0
N255521	Drill Core	12.8	3.4	0.34	<0.005	18	3.3	10.3
N255522	Drill Core	10.5	4.3	0.24	<0.005	21	2.9	2.0
N255523	Drill Core	10.0	3.8	0.15	0.005	17	2.8	2.8
N255524	Drill Core	7.1	3.3	0.21	<0.005	17	3.5	17.7
N255525	Drill Core	8.0	3.4	0.28	0.007	19	2.2	4.1
N255526	Drill Core	3.8	3.1	0.56	<0.005	29	2.3	2.4
N255527	Rock	2.9	0.2	<0.05	<0.005	<1	2.3	<0.5
N255528	Drill Core	6.7	3.1	0.34	<0.005	19	1.5	1.3
N255529	Drill Core	7.7	4.2	0.22	0.007	32	3.9	1.2
N255530	Drill Core	8.2	4.0	0.22	0.017	36	3.8	1.6
N255531	Drill Core	2.8	2.6	0.27	0.076	15	1.0	1.0
N255532	Drill Core	0.9	1.8	0.10	0.025	21	1.3	1.2
N255533	Drill Core	0.6	2.4	<0.05	0.031	18	0.9	0.5
N255534	Drill Core	0.6	2.4	0.07	0.138	21	0.9	0.8
N255535	Drill Core	0.7	2.3	0.07	0.100	21	0.8	0.6
N255536	Drill Core	0.6	2.2	0.09	0.041	5	1.5	<0.5
N255537	Drill Core	37.9	2.4	0.23	0.083	15	1.4	3.0
N255538	Drill Core	38.3	2.5	0.57	0.082	20	0.7	3.6
N255539	Drill Core	24.8	2.5	0.55	0.080	14	<0.5	3.0
N255540	Drill Core	44.6	3.5	0.49	0.016	21	<0.5	2.6
N255541	Drill Core	44.5	3.4	0.42	0.018	18	<0.5	3.0
N255542	Drill Core	47.7	3.3	0.42	0.450	23	1.1	2.6
N255543	Drill Core	21.3	2.2	0.21	0.190	6	0.6	1.0
N255544	Drill Core	37.6	2.4	0.23	0.013	8	1.4	1.5



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255545	Drill Core	6.19	9	3.1	184.5	7.6	13	<0.1	14.7	23.6	34	8.03	11	1.9	3.4	58	0.3	1.5	0.6	210	0.15
N255546	Drill Core	1.46	6	1.8	162.2	9.1	85	0.1	9.1	17.0	66	4.54	2	1.3	3.2	45	0.4	0.6	0.2	56	0.43
N255547	Rock Pulp	0.06	187	377.8	2004.2	27.1	66	12.7	16.5	10.1	805	3.65	13	1.5	2.7	465	0.3	36.2	2.2	92	2.92
N255548	Rock	2.64	<2	<0.1	2.1	0.3	2	<0.1	1.1	<0.2	120	0.10	1	0.1	<0.1	86	<0.1	0.1	<0.1	2	32.20
N255549	Rock Pulp	0.06	618	323.8	3835.7	27.0	105	14.3	26.5	67.8	1455	4.75	1952	2.2	1.4	469	1.1	44.9	15.4	58	5.81
N255550	Drill Core	4.48	5	2.4	86.7	9.4	63	<0.1	5.5	11.9	404	4.58	4	1.5	3.4	54	0.5	0.7	0.3	100	1.23
N255551	Drill Core	7.59	3	3.0	74.4	10.6	66	<0.1	5.4	14.7	986	4.79	1	1.8	4.1	104	0.3	0.3	0.5	99	3.73
N255552	Rock	2.77	<2	<0.1	2.7	0.5	3	<0.1	1.3	0.5	131	0.15	2	0.2	0.1	77	<0.1	<0.1	<0.1	2	32.44
N255553	Drill Core	7.03	3	2.6	80.3	16.2	117	<0.1	4.8	12.5	858	4.20	<1	2.8	5.5	102	0.5	0.6	0.4	76	2.08
N255554	Drill Core	8.11	2	3.9	53.0	13.4	53	<0.1	4.3	11.9	616	4.01	2	3.0	5.7	114	0.1	0.5	0.4	85	2.03
N255555	Drill Core	6.25	2	2.0	58.8	6.2	68	<0.1	4.8	14.3	1082	4.59	4	1.4	3.1	288	<0.1	0.5	<0.1	146	3.27
N255556	Drill Core	4.37	3	2.2	63.4	6.2	70	<0.1	5.4	15.9	1025	4.67	10	1.6	3.6	277	0.1	0.6	<0.1	147	2.94
N255557	Drill Core	6.42	3	3.2	58.6	7.4	75	<0.1	5.0	14.1	619	4.45	11	1.9	3.6	141	<0.1	0.9	<0.1	131	3.31
N255558	Rock Pulp	0.06	184	385.8	1915.9	27.4	61	12.8	14.6	9.7	764	3.61	14	1.3	2.2	424	0.3	34.6	2.2	85	2.65
N255559	Drill Core	5.05	2	2.7	50.8	6.4	65	0.3	4.6	13.9	1220	4.15	6	2.0	4.3	141	<0.1	0.6	<0.1	131	2.89
N255560	Drill Core	6.72	2	2.9	52.7	6.8	53	0.2	4.1	12.6	439	4.07	3	1.8	3.9	124	0.2	0.3	<0.1	119	4.62
N255561	Drill Core	3.71	2	3.2	59.6	7.1	77	<0.1	4.1	13.6	1481	4.37	10	2.4	4.9	265	<0.1	0.4	<0.1	112	2.60
N255562	Drill Core	4.11	<2	3.9	39.4	8.4	59	<0.1	1.7	7.9	765	3.42	3	3.7	6.9	122	<0.1	0.5	<0.1	53	0.86
N255563	Drill Core	3.98	3	4.3	86.0	12.6	90	0.2	6.7	17.1	2578	4.98	1	2.3	4.4	308	0.3	0.4	<0.1	141	2.16
N255564	Drill Core	4.10	3	3.6	66.5	8.5	73	<0.1	7.4	19.3	1773	5.09	2	1.5	3.9	301	0.4	0.4	<0.1	139	2.91
N255565	Rock	2.45	<2	<0.1	3.0	0.4	2	<0.1	0.2	0.4	153	0.14	<1	<0.1	<0.1	79	<0.1	<0.1	<0.1	1	32.81
N255567	Drill Core	3.81	3	2.3	67.6	5.9	61	<0.1	6.6	20.6	1027	5.02	2	2.5	4.4	206	<0.1	0.5	<0.1	135	1.58
N255568	Drill Core	4.34	4	2.3	64.1	6.2	67	<0.1	5.6	16.4	922	4.84	8	2.2	4.5	148	0.2	0.9	<0.1	133	1.56
N255569	Drill Core	6.12	3	2.8	57.6	7.5	90	<0.1	7.3	15.0	1051	4.26	3	1.4	3.9	210	0.2	0.4	<0.1	144	2.29
N255570	Drill Core	5.05	4	46.6	62.7	23.2	168	<0.1	6.3	16.9	918	4.78	3	1.7	3.2	73	0.3	0.6	0.6	146	1.13
N255571	Rock Pulp	0.06	617	353.3	4055.8	28.9	112	15.0	27.5	71.2	1522	4.87	1976	2.4	1.4	501	0.9	49.0	16.0	61	5.98
N255572	Drill Core	6.50	4	63.8	91.5	43.2	195	<0.1	5.9	13.9	465	3.80	2	1.6	3.5	46	0.9	0.6	0.6	151	0.93
N255573	Drill Core	7.30	7	60.0	122.6	30.3	118	<0.1	6.8	20.3	467	5.58	<1	1.9	3.6	55	0.6	0.5	0.4	136	0.98
N255574	Drill Core	5.87	4	41.9	98.9	24.0	147	<0.1	7.0	17.5	629	5.26	<1	2.2	4.2	81	0.6	0.9	0.4	126	1.39
N255575	Drill Core	4.07	3	9.6	73.3	13.7	65	<0.1	7.7	14.3	674	4.17	4	2.2	4.7	110	0.1	0.7	0.2	141	1.82



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255545	Drill Core	0.057	11.9	16	0.19	16	0.410	8.66	0.031	1.77	3.3	64.5	29	1.4	15.7	5.5	0.4	<1	25	7.5	8.6
N255546	Drill Core	0.071	11.6	7	0.15	15	0.147	6.85	0.047	1.30	4.1	49.6	27	1.3	9.5	1.7	0.1	<1	7	9.9	4.9
N255547	Rock Pulp	0.056	8.2	18	0.91	750	0.202	7.01	2.238	2.00	1.7	10.1	18	3.1	10.8	2.6	0.2	<1	9	8.1	0.3
N255548	Rock	0.009	1.4	<1	1.60	18	0.008	0.15	0.024	0.02	<0.1	1.9	1	<0.1	2.2	0.1	<0.1	<1	<1	0.7	<0.1
N255549	Rock Pulp	0.065	15.5	31	0.76	727	0.146	5.75	1.676	1.62	4.1	21.5	24	3.2	8.9	1.7	0.1	2	6	12.9	0.6
N255550	Drill Core	0.054	10.1	6	1.28	17	0.231	6.15	0.028	1.22	3.5	82.7	26	2.3	14.1	3.3	0.2	<1	13	7.4	4.7
N255551	Drill Core	0.072	13.1	6	1.41	35	0.215	7.05	0.455	2.25	0.5	127.6	32	2.1	18.6	4.2	0.3	<1	15	9.4	5.3
N255552	Rock	0.008	1.2	<1	2.23	22	0.008	0.19	0.056	0.04	<0.1	2.9	1	<0.1	2.8	0.2	<0.1	<1	<1	1.8	<0.1
N255553	Drill Core	0.067	15.0	5	1.55	26	0.177	7.14	0.878	2.56	0.4	154.0	38	1.6	20.5	5.1	0.4	<1	13	9.8	4.8
N255554	Drill Core	0.065	13.7	4	1.38	34	0.262	7.42	0.647	2.63	0.6	159.3	34	2.3	23.8	6.9	0.5	<1	14	6.3	4.5
N255555	Drill Core	0.075	8.3	5	2.08	32	0.434	7.61	1.751	1.89	0.9	139.2	22	1.1	18.9	7.6	0.5	<1	16	13.1	4.6
N255556	Drill Core	0.079	9.7	6	2.38	47	0.456	8.04	1.791	1.91	9.0	147.2	25	1.3	20.7	8.1	0.5	<1	17	13.0	4.8
N255557	Drill Core	0.072	9.6	5	1.25	26	0.417	7.59	0.874	2.44	0.8	144.6	26	1.0	22.4	7.6	0.5	1	15	7.2	5.8
N255558	Rock Pulp	0.051	5.7	18	0.83	710	0.204	6.07	2.202	1.84	1.9	10.2	15	3.0	9.9	2.6	0.1	<1	8	8.3	0.3
N255559	Drill Core	0.071	11.6	7	1.51	74	0.438	7.47	0.835	2.46	3.8	164.2	29	1.0	24.6	9.0	0.6	<1	17	8.1	4.5
N255560	Drill Core	0.075	11.8	6	0.78	32	0.398	6.70	0.507	2.19	1.1	158.9	28	1.5	23.8	8.0	0.5	<1	16	3.8	6.9
N255561	Drill Core	0.084	13.4	5	1.39	41	0.461	7.75	2.034	2.40	0.8	182.0	34	1.3	25.3	9.8	0.6	1	15	8.0	4.3
N255562	Drill Core	0.068	18.2	2	1.28	26	0.303	7.58	1.607	2.96	0.6	229.3	45	1.1	28.6	9.8	0.6	1	10	8.4	3.8
N255563	Drill Core	0.085	13.1	8	2.39	33	0.451	7.77	2.182	2.40	1.5	133.7	33	1.0	23.8	9.0	0.6	1	17	10.0	3.8
N255564	Drill Core	0.087	8.7	10	2.46	26	0.456	7.68	2.255	1.67	0.6	114.1	24	0.9	22.4	8.2	0.5	<1	18	11.8	4.9
N255565	Rock	0.007	1.5	<1	2.01	16	0.007	0.11	0.035	0.03	<0.1	2.0	1	<0.1	2.2	0.1	<0.1	<1	<1	0.8	<0.1
N255567	Drill Core	0.078	11.3	8	2.78	21	0.426	7.36	2.105	1.16	0.7	106.8	29	0.6	22.2	8.1	0.5	1	15	17.5	5.1
N255568	Drill Core	0.081	13.2	8	2.59	22	0.418	7.60	1.764	1.40	0.5	105.8	31	1.0	22.8	7.7	0.5	2	16	17.0	4.9
N255569	Drill Core	0.083	8.1	11	2.38	32	0.414	7.64	2.091	1.53	1.8	113.1	20	0.8	20.2	8.2	0.5	<1	17	16.1	4.4
N255570	Drill Core	0.071	6.4	8	2.37	16	0.398	6.78	0.727	1.62	1.3	104.3	18	2.8	18.6	8.1	0.5	<1	14	16.0	5.4
N255571	Rock Pulp	0.063	16.0	32	0.78	733	0.152	5.99	1.729	1.74	4.5	21.6	25	3.3	9.8	1.7	0.1	<1	6	13.5	0.6
N255572	Drill Core	0.073	8.5	9	1.83	40	0.375	6.70	0.153	1.64	3.1	82.5	20	5.8	15.8	7.4	0.4	1	15	16.0	4.4
N255573	Drill Core	0.075	9.0	6	2.03	18	0.323	7.06	0.297	2.18	2.4	105.4	25	3.7	16.4	5.3	0.3	<1	17	10.7	6.1
N255574	Drill Core	0.083	13.5	8	2.14	21	0.332	7.21	0.357	2.16	1.3	106.0	33	2.1	18.5	6.2	0.4	<1	16	8.8	5.4
N255575	Drill Core	0.079	13.3	8	2.01	28	0.426	7.61	0.622	1.70	1.0	120.5	33	2.1	25.3	8.0	0.5	1	17	10.9	4.0



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255545	Drill Core	50.2	1.8	0.22	0.013	7	0.6	2.3
N255546	Drill Core	32.4	1.5	0.20	<0.005	27	2.1	1.0
N255547	Rock Pulp	34.3	0.6	0.12	0.387	<1	1.1	<0.5
N255548	Rock	0.7	<0.1	<0.05	<0.005	<1	<0.5	<0.5
N255549	Rock Pulp	38.2	0.7	0.19	0.337	3	2.5	<0.5
N255550	Drill Core	39.6	2.4	0.11	0.013	20	1.8	1.0
N255551	Drill Core	56.6	3.5	0.18	0.013	24	1.6	1.1
N255552	Rock	1.2	<0.1	<0.05	<0.005	<1	1.3	<0.5
N255553	Drill Core	75.7	4.7	0.07	0.006	26	1.2	1.0
N255554	Drill Core	78.4	4.5	0.07	<0.005	20	1.1	1.3
N255555	Drill Core	31.9	4.0	0.10	<0.005	12	2.7	0.7
N255556	Drill Core	37.6	4.1	0.07	<0.005	15	2.5	1.0
N255557	Drill Core	61.4	4.1	0.08	<0.005	15	1.6	1.7
N255558	Rock Pulp	28.9	0.6	0.13	0.445	<1	1.1	<0.5
N255559	Drill Core	62.3	4.4	0.09	<0.005	8	0.9	1.1
N255560	Drill Core	56.8	4.4	0.13	<0.005	15	0.7	1.3
N255561	Drill Core	60.8	5.2	0.08	0.005	5	<0.5	1.2
N255562	Drill Core	95.9	6.2	<0.05	<0.005	6	0.6	0.9
N255563	Drill Core	52.5	3.7	0.07	0.016	7	1.1	0.5
N255564	Drill Core	28.6	3.5	0.10	0.013	10	1.2	0.5
N255565	Rock	0.6	<0.1	<0.05	<0.005	<1	0.9	<0.5
N255567	Drill Core	36.3	3.2	0.09	<0.005	7	1.2	0.6
N255568	Drill Core	47.0	2.8	0.18	0.013	12	2.4	0.6
N255569	Drill Core	25.2	3.1	0.13	0.013	9	2.8	<0.5
N255570	Drill Core	50.4	2.6	0.18	0.444	21	2.6	1.3
N255571	Rock Pulp	37.8	0.8	0.14	0.417	4	2.9	<0.5
N255572	Drill Core	44.6	2.4	0.20	0.153	24	2.1	1.8
N255573	Drill Core	71.8	3.0	0.21	0.285	41	1.5	2.3
N255574	Drill Core	69.4	2.8	0.15	0.169	24	0.8	2.1
N255575	Drill Core	53.7	3.3	0.14	0.044	8	1.1	1.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255576	Drill Core	7.38	3	5.6	82.5	12.5	56	<0.1	6.3	15.3	422	4.86	4	2.2	4.2	67	0.3	0.6	0.1	137	1.69
N255577	Drill Core	6.47	6	7.0	107.9	16.0	70	<0.1	8.0	19.0	360	5.40	8	1.9	3.7	38	0.3	0.8	1.3	144	1.10
N255578	Rock	2.23	<2	<0.1	0.8	0.4	3	<0.1	0.2	<0.2	120	0.10	1	0.1	<0.1	80	<0.1	<0.1	<0.1	<1	33.56
N255579	Drill Core	8.30	7	5.8	171.2	25.1	109	<0.1	8.7	18.5	528	5.64	4	2.1	4.1	35	0.4	1.0	0.4	146	1.57
N255580	Drill Core	7.64	4	5.0	127.9	17.3	82	<0.1	9.0	19.1	755	5.53	10	2.1	4.1	100	0.5	1.4	0.5	152	1.67
N255581	Drill Core	7.95	4	5.6	138.2	15.9	135	<0.1	8.0	18.4	602	6.23	3	2.1	3.6	74	0.4	0.7	0.3	134	1.29
N255582	Drill Core	8.59	4	4.6	171.7	19.7	94	0.1	9.9	18.2	305	5.89	<1	2.1	3.9	24	0.2	0.5	0.5	127	0.78
N255583	Drill Core	7.58	5	5.9	109.7	10.7	40	<0.1	10.4	18.9	362	5.17	1	2.1	4.7	28	0.2	0.5	0.1	127	1.10



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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
N255576	Drill Core	0.078	13.2	5	1.66	24	0.416	7.65	0.257	2.14	0.6	125.0	33	3.0	23.7	7.7	0.5	<1	16	5.9	5.2
N255577	Drill Core	0.069	10.8	7	1.78	20	0.368	7.25	0.042	2.23	0.5	96.7	27	2.4	18.9	6.4	0.4	1	16	6.2	5.3
N255578	Rock	0.006	1.3	<1	1.71	16	0.005	0.10	0.026	0.02	<0.1	1.8	1	<0.1	2.1	0.2	<0.1	<1	<1	0.9	<0.1
N255579	Drill Core	0.073	12.0	11	1.40	21	0.391	7.18	0.058	1.99	0.7	94.5	29	3.4	18.8	7.3	0.5	<1	15	7.7	6.0
N255580	Drill Core	0.076	10.3	9	1.51	22	0.392	7.45	0.350	2.08	0.6	123.6	27	3.1	20.5	6.9	0.5	<1	17	6.5	5.5
N255581	Drill Core	0.078	9.4	8	1.62	21	0.297	6.89	0.282	2.55	0.7	103.2	25	4.1	18.9	5.6	0.4	1	15	7.5	6.4
N255582	Drill Core	0.071	11.2	10	1.05	19	0.194	6.97	0.100	2.59	0.6	96.7	28	2.4	19.3	3.3	0.2	1	17	4.7	6.4
N255583	Drill Core	0.081	13.7	12	1.27	35	0.240	7.71	0.058	2.43	0.5	115.5	32	3.5	24.2	4.5	0.3	<1	17	4.5	5.5



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255576	Drill Core	76.4	3.2	0.13	0.015	7	0.8	1.5
N255577	Drill Core	73.0	2.7	0.19	0.021	5	1.2	1.7
N255578	Rock	0.6	<0.1	<0.05	<0.005	<1	2.1	<0.5
N255579	Drill Core	60.4	2.5	0.19	0.037	19	1.9	1.5
N255580	Drill Core	59.3	3.5	0.10	0.013	13	1.1	1.8
N255581	Drill Core	76.1	3.0	0.11	0.034	21	2.2	1.6
N255582	Drill Core	79.9	2.7	0.21	0.015	29	2.9	1.2
N255583	Drill Core	79.3	3.2	0.10	0.011	22	2.1	1.1



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Project: Pemberton
Report Date: December 13, 2018

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QUALITY CONTROL REPORT

VAN18003380.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255519	Drill Core	6.44	5	6.1	113.2	13.1	31	<0.1	11.3	17.6	25	5.74	12	1.9	4.2	331	0.5	0.8	1.8	187	0.04
REP N255519	QC	5																			
N255541	Drill Core	7.37	4	3.0	87.6	12.5	25	<0.1	13.4	23.2	17	8.94	3	1.7	3.6	16	<0.1	0.5	<0.1	168	0.39
REP N255541	QC	2.9 85.1 12.7 24 <0.1 14.1 23.1 18 8.95 4 1.8 3.5 16 <0.1 0.6 <0.1 171 0.36																			
N255552	Rock	2.77	<2	<0.1	2.7	0.5	3	<0.1	1.3	0.5	131	0.15	2	0.2	0.1	77	<0.1	<0.1	<0.1	2	32.44
REP N255552	QC	<2																			
N255577	Drill Core	6.47	6	7.0	107.9	16.0	70	<0.1	8.0	19.0	360	5.40	8	1.9	3.7	38	0.3	0.8	1.3	144	1.10
REP N255577	QC	6.1 107.3 16.7 77 <0.1 8.4 20.0 360 5.51 8 2.0 3.3 38 0.7 1.1 1.3 143 1.02																			
N255583	Drill Core	7.58	5	5.9	109.7	10.7	40	<0.1	10.4	18.9	362	5.17	1	2.1	4.7	28	0.2	0.5	0.1	127	1.10
REP N255583	QC	4																			
Core Reject Duplicates																					
N255582	Drill Core	8.59	4	4.6	171.7	19.7	94	0.1	9.9	18.2	305	5.89	<1	2.1	3.9	24	0.2	0.5	0.5	127	0.78
DUP N255582	QC	4 4.6 170.9 20.0 96 <0.1 10.4 18.2 310 5.94 <1 2.2 4.0 24 0.2 0.5 0.5 127 0.80																			
Reference Materials																					
STD OREAS25A-4A	Standard	2.2 33.0 23.7 41 <0.1 44.9 7.7 516 6.53 10 2.8 13.3 45 <0.1 0.7 0.4 164 0.26																			
STD OREAS25A-4A	Standard	2.1 31.5 25.3 38 <0.1 44.3 7.2 517 6.53 10 2.9 15.4 50 <0.1 0.6 0.4 155 0.30																			
STD OREAS25A-4A	Standard	2.5 33.4 25.3 45 <0.1 47.4 7.5 468 6.59 11 3.0 15.9 43 <0.1 0.6 0.4 161 0.27																			
STD OREAS45E	Standard	2.2 804.0 18.1 46 0.3 490.0 57.6 610 22.83 16 2.5 12.7 18 <0.1 1.0 0.2 345 0.06																			
STD OREAS45E	Standard	2.3 770.2 18.5 46 0.3 473.7 56.2 554 23.70 16 2.4 12.6 16 <0.1 1.0 0.3 330 0.07																			
STD OXC145	Standard	210																			
STD OXC145	Standard	201																			
STD OXC145	Standard	213																			
STD OXH139	Standard	1278																			
STD OXH139	Standard	1301																			
STD OXH139 Expected		1312																			
STD OREAS25A-4A Expected		2.55 33.9 25.2 44.4 45.8 8.2 470 6.6 9.94 2.94 15.8 48.5 0.67 0.35 157 0.309																			
STD OREAS45E Expected		2.4 780 18.2 46.7 0.311 454 57 570 24.12 16.3 2.41 12.9 15.9 0.06 1 0.28 322 0.065																			
STD OXC145 Expected		212																			



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Project: Pemberton

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QUALITY CONTROL REPORT

VAN18003380.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255519	Drill Core	0.053	10.6	15	0.15	18	0.478	8.64	0.048	0.88	0.7	100.7	27	3.4	18.2	7.8	0.5	<1	17	5.8	5.8
REP N255519	QC																				
N255541	Drill Core	0.064	8.8	14	0.19	8	0.202	7.09	0.023	1.67	0.4	118.9	24	4.3	18.8	3.0	0.2	<1	21	10.9	>10
REP N255541	QC	0.065	8.9	16	0.20	9	0.210	7.05	0.023	1.66	0.4	123.2	24	4.5	20.6	3.2	0.3	1	21	10.3	>10
N255552	Rock	0.008	1.2	<1	2.23	22	0.008	0.19	0.056	0.04	<0.1	2.9	1	<0.1	2.8	0.2	<0.1	<1	<1	1.8	<0.1
REP N255552	QC																				
N255577	Drill Core	0.069	10.8	7	1.78	20	0.368	7.25	0.042	2.23	0.5	96.7	27	2.4	18.9	6.4	0.4	1	16	6.2	5.3
REP N255577	QC	0.070	9.5	9	1.73	24	0.387	6.78	0.043	2.18	0.6	99.4	23	2.3	17.7	6.7	0.4	<1	15	6.3	5.5
N255583	Drill Core	0.081	13.7	12	1.27	35	0.240	7.71	0.058	2.43	0.5	115.5	32	3.5	24.2	4.5	0.3	<1	17	4.5	5.5
REP N255583	QC																				
Core Reject Duplicates																					
N255582	Drill Core	0.071	11.2	10	1.05	19	0.194	6.97	0.100	2.59	0.6	96.7	28	2.4	19.3	3.3	0.2	1	17	4.7	6.4
DUP N255582	QC	0.069	11.2	10	1.07	19	0.193	7.22	0.103	2.63	0.5	98.4	29	2.5	20.0	3.3	0.2	<1	18	3.8	6.4
Reference Materials																					
STD OREAS25A-4A	Standard	0.051	15.4	118	0.33	140	0.987	8.14	0.139	0.49	2.1	150.8	40	3.9	8.4	20.0	1.4	<1	11	36.1	<0.1
STD OREAS25A-4A	Standard	0.045	20.9	105	0.35	153	0.911	8.79	0.131	0.47	2.0	151.4	47	4.0	10.7	20.2	1.5	<1	12	38.4	<0.1
STD OREAS25A-4A	Standard	0.052	19.9	121	0.31	142	0.934	8.95	0.114	0.50	2.0	160.7	43	4.2	9.6	20.6	1.5	<1	11	41.5	<0.1
STD OREAS45E	Standard	0.034	9.1	951	0.17	258	0.564	6.79	0.058	0.34	0.9	94.5	21	1.3	7.0	6.0	0.5	1	91	6.5	<0.1
STD OREAS45E	Standard	0.034	8.1	986	0.14	239	0.528	6.82	0.050	0.33	1.0	97.0	19	1.3	6.6	6.1	0.5	<1	87	6.7	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXC145 Expected																					



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QUALITY CONTROL REPORT

VAN18003380.1

Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255519	Drill Core	20.1	2.9	0.42	0.011	18	1.7	3.6
REP N255519	QC							
N255541	Drill Core	44.5	3.4	0.42	0.018	18	<0.5	3.0
REP N255541	QC	45.6	3.3	0.40	0.019	18	<0.5	3.1
N255552	Rock	1.2	<0.1	<0.05	<0.005	<1	1.3	<0.5
REP N255552	QC							
N255577	Drill Core	73.0	2.7	0.19	0.021	5	1.2	1.7
REP N255577	QC	60.7	2.5	0.16	0.022	6	1.1	1.7
N255583	Drill Core	79.3	3.2	0.10	0.011	22	2.1	1.1
REP N255583	QC							
Core Reject Duplicates								
N255582	Drill Core	79.9	2.7	0.21	0.015	29	2.9	1.2
DUP N255582	QC	81.0	2.8	0.16	0.020	28	2.4	1.3
Reference Materials								
STD OREAS25A-4A	Standard	49.1	4.2	0.13	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	59.3	4.3	0.12	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	57.3	4.2	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.4	3.1	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.1	2.7	0.07	<0.005	2	0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXC145 Expected								



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Project: Pemberton

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QUALITY CONTROL REPORT

VAN18003380.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
Prep Wash																					
ROCK-VAN	Prep Blank		<2	0.4	3.3	2.8	31	<0.1	1.0	3.9	655	2.05	3	1.1	2.8	215	<0.1	<0.1	<0.1	35	1.48
ROCK-VAN	Prep Blank		<2	0.5	2.5	2.7	28	<0.1	0.8	3.5	632	1.93	3	1.2	2.6	213	<0.1	0.1	<0.1	34	1.48



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QUALITY CONTROL REPORT

VAN18003380.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.4	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
Prep Wash																						
ROCK-VAN	Prep Blank	0.043	12.0	2	0.46	827	0.206	6.38	3.395	1.81	0.3	52.3	24	0.8	14.7	5.2	0.4	1	6	3.4	<0.1	
ROCK-VAN	Prep Blank	0.038	12.4	2	0.45	801	0.195	6.58	3.383	1.74	0.4	53.4	24	0.8	14.9	5.3	0.4	<1	6	3.1	<0.1	



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QUALITY CONTROL REPORT

VAN18003380.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	0.009	<1	<0.5	<0.5
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	35.7	1.8	0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	36.5	1.6	<0.05	<0.005	<1	<0.5	<0.5



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Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 03, 2018

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003509.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 161

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	148	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	13	Sort, label and box pulps			VAN
FA350-Au	161	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	161	Environmental disposal charge-Fire assay lead waste			VAN
MA200	161	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003509.1

Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
N255659	Drill Core	5.53	6	7.5	154.0	40.9	11	<0.1	9.4	24.6	25	6.11	6	1.3	3.0	483	<0.1	1.2	0.8	129	0.12
N255660	Drill Core	5.78	12	6.6	161.7	36.9	144	0.2	7.8	20.9	30	5.91	2	1.7	3.3	519	0.5	0.9	1.0	142	0.11
N255661	Rock Pulp	0.06	654	361.4	4126.8	28.0	114	16.9	26.9	71.6	1497	5.01	2142	2.4	1.5	476	1.1	44.2	13.9	64	6.19
N255662	Drill Core	5.28	37	2.8	197.1	27.8	61	0.3	8.0	18.8	25	5.51	13	1.6	3.0	423	0.3	1.5	2.0	171	0.10
N255663	Drill Core	7.83	16	3.1	243.2	34.0	77	0.2	10.1	20.7	28	6.11	13	1.6	3.2	379	0.3	1.3	2.7	180	0.10
N255664	Drill Core	7.17	9	5.2	195.0	53.8	24	<0.1	12.4	26.4	21	6.55	10	1.6	3.6	540	0.1	1.5	1.7	162	0.10
N255665	Drill Core	5.75	12	5.1	102.8	26.2	68	<0.1	8.2	22.4	29	6.09	5	1.5	2.6	383	0.4	0.7	3.1	149	0.10
N255666	Rock	2.67	2	<0.1	2.1	1.1	3	<0.1	<0.1	0.8	147	0.13	<1	0.6	0.4	87	<0.1	<0.1	<0.1	<1	32.87
N255667	Drill Core	8.32	10	2.5	69.2	25.9	128	<0.1	6.7	21.0	110	5.57	8	1.6	1.9	104	1.2	0.7	1.0	154	0.14
N255668	Drill Core	6.49	6	2.8	60.3	17.4	142	<0.1	7.0	20.6	416	4.95	5	1.5	2.5	58	1.3	0.6	0.9	168	0.19
N255669	Drill Core	5.93	3	3.0	23.3	16.4	129	<0.1	6.6	17.2	491	4.92	2	1.3	1.9	100	0.5	0.5	0.5	139	0.24
N255670	Drill Core	7.98	3	4.0	21.9	13.6	84	<0.1	6.4	14.2	225	5.01	2	1.4	2.1	42	0.4	0.4	0.6	155	0.29
N255671	Rock Pulp	0.06	201	397.6	1971.3	25.7	60	15.5	15.8	10.0	768	3.78	14	1.0	1.9	448	0.4	32.1	1.8	90	2.79
N255672	Drill Core	6.20	4	3.1	32.4	14.7	79	<0.1	6.6	22.7	144	5.52	4	1.2	1.8	65	0.6	0.5	0.8	156	0.20
N255673	Drill Core	8.19	3	1.7	45.9	46.2	82	<0.1	8.0	21.3	655	6.21	7	1.3	2.2	303	0.3	0.6	1.2	170	0.41
N255674	Drill Core	6.75	3	1.3	51.6	10.3	114	<0.1	7.7	20.2	1186	5.93	4	1.4	2.7	138	0.4	0.3	0.3	182	0.87
N255675	Drill Core	7.18	3	1.6	50.2	9.4	112	<0.1	7.1	19.2	1355	5.67	5	1.4	2.4	92	0.1	0.5	0.5	181	0.75
N255676	Rock	2.61	2	<0.1	1.5	0.5	4	<0.1	0.8	0.7	132	0.11	<1	0.1	<0.1	80	<0.1	<0.1	<0.1	<1	34.03
N255677	Drill Core	7.04	3	3.5	63.0	42.0	51	<0.1	7.7	20.4	69	5.41	9	1.4	2.5	527	0.4	0.6	1.3	168	0.17
N255678	Drill Core	4.21	4	3.2	37.9	42.9	8	0.2	11.0	33.7	19	2.86	2	1.3	3.4	592	<0.1	0.3	0.5	112	0.14
N255679	Drill Core	4.91	3	2.7	31.9	38.1	15	0.2	11.4	33.4	21	4.29	7	1.5	3.3	606	0.1	0.6	0.9	139	0.10
N255680	Drill Core	8.01	2	2.7	34.7	31.3	16	0.1	13.5	37.1	19	3.76	9	1.4	3.1	354	0.4	0.4	0.8	120	0.10
N255681	Drill Core	4.38	2	2.7	29.2	50.8	13	0.4	8.1	18.1	22	3.42	11	1.3	2.8	328	0.3	0.5	0.5	102	0.11
N255682	Drill Core	6.42	4	3.2	53.1	56.3	17	0.3	10.1	24.7	23	4.72	11	1.5	3.5	528	0.2	0.5	1.2	115	0.11
N255683	Drill Core	6.28	5	2.4	49.4	45.7	56	<0.1	9.4	24.5	34	5.05	14	1.2	2.5	511	0.4	0.8	0.8	118	0.12
N255684	Drill Core	9.33	4	2.3	45.6	47.8	21	<0.1	15.1	34.6	24	5.69	16	1.3	2.6	532	0.3	0.6	1.1	133	0.10
N255685	Drill Core	6.26	5	2.3	67.7	35.8	19	<0.1	16.7	39.5	25	5.78	20	1.3	2.7	421	0.4	0.7	1.0	148	0.10
N255686	Drill Core	6.54	5	2.7	41.9	62.8	20	<0.1	13.9	37.3	25	5.19	12	1.3	3.0	927	0.3	0.7	0.8	143	0.13
N255687	Drill Core	6.56	8	2.3	75.6	27.5	29	<0.1	8.7	24.2	30	5.09	24	1.3	2.4	773	0.3	0.8	0.6	158	0.15
N255688	Rock Pulp	0.06	585	332.5	3791.8	26.1	104	14.9	24.5	66.1	1363	4.60	1936	2.2	1.3	423	0.9	38.2	12.9	58	5.69



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Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	1	0.1	1	1	0.1	0.1
N255659	Drill Core	0.089	13.1	7	0.01	28	0.240	8.68	0.343	0.68	1.0	68.1	31	8.9	8.0	4.0	0.2	<1	12	0.4	8.4
N255660	Drill Core	0.089	13.1	9	0.06	41	0.262	9.92	0.056	0.59	0.7	82.0	32	4.6	18.0	4.2	0.3	<1	20	2.3	6.6
N255661	Rock Pulp	0.065	15.4	33	0.80	542	0.147	6.42	1.830	1.83	4.6	21.4	23	3.1	8.9	1.8	0.1	<1	6	12.5	0.7
N255662	Drill Core	0.070	11.3	9	0.02	24	0.312	9.04	0.035	0.17	0.4	71.1	28	4.5	10.3	4.3	0.3	<1	17	1.0	6.2
N255663	Drill Core	0.078	10.4	11	0.03	31	0.324	9.51	0.030	0.30	0.4	79.7	26	3.8	12.4	4.8	0.3	<1	19	1.6	6.9
N255664	Drill Core	0.079	12.1	10	0.01	28	0.323	9.00	0.027	0.05	0.6	82.5	29	6.4	9.5	4.7	0.3	<1	14	1.1	7.4
N255665	Drill Core	0.067	7.5	8	0.18	17	0.226	8.10	0.055	1.11	0.5	68.8	21	3.4	13.4	3.2	0.2	<1	19	1.7	6.8
N255666	Rock	0.006	1.9	1	2.55	34	0.007	0.42	0.196	0.19	<0.1	7.7	2	0.1	4.0	1.0	0.1	<1	<1	1.2	<0.1
N255667	Drill Core	0.047	4.5	6	1.06	21	0.272	8.43	0.150	1.61	0.3	66.9	13	3.2	11.6	3.7	0.3	<1	24	2.5	6.2
N255668	Drill Core	0.069	6.3	11	1.38	24	0.362	9.17	0.784	1.91	0.4	84.8	18	3.5	16.3	5.7	0.4	<1	22	2.1	5.1
N255669	Drill Core	0.064	5.3	7	1.96	22	0.269	8.20	0.655	1.75	0.3	75.1	15	1.9	13.6	4.0	0.3	1	17	2.9	5.1
N255670	Drill Core	0.067	6.6	7	1.53	26	0.237	8.17	0.358	1.86	0.3	70.2	18	1.8	16.4	4.0	0.3	1	20	2.6	5.4
N255671	Rock Pulp	0.053	7.1	20	0.89	751	0.200	7.55	2.395	1.87	1.6	10.3	17	2.9	11.4	2.7	0.2	1	10	8.5	0.3
N255672	Drill Core	0.060	3.7	5	1.56	21	0.228	8.74	0.215	1.87	0.2	66.0	11	1.8	12.0	3.2	0.2	1	18	2.5	6.1
N255673	Drill Core	0.076	7.1	7	1.33	19	0.410	6.34	0.516	0.81	0.3	79.1	19	6.8	15.1	5.2	0.3	<1	14	2.5	6.2
N255674	Drill Core	0.084	9.2	8	2.44	23	0.446	7.73	0.911	0.87	0.4	102.6	23	1.3	22.1	6.3	0.4	<1	19	2.9	4.8
N255675	Drill Core	0.081	6.6	9	2.75	25	0.432	7.41	0.807	1.13	0.3	100.5	18	1.1	17.4	6.3	0.4	1	18	2.7	4.2
N255676	Rock	0.006	1.9	2	2.35	16	0.006	0.10	0.034	0.02	<0.1	1.6	1	<0.1	2.4	0.2	<0.1	<1	<1	0.9	<0.1
N255677	Drill Core	0.096	8.2	7	0.24	31	0.319	8.50	0.153	1.11	0.3	84.1	22	6.1	12.9	4.3	0.3	<1	17	1.5	6.1
N255678	Drill Core	0.083	13.5	6	0.01	57	0.196	9.22	0.033	0.02	1.1	89.2	31	4.1	4.0	3.2	0.2	<1	10	1.8	3.4
N255679	Drill Core	0.077	14.1	7	<0.01	33	0.292	9.20	0.253	0.46	1.3	81.5	35	6.0	5.1	4.9	0.3	<1	11	0.3	6.3
N255680	Drill Core	0.070	11.3	7	<0.01	32	0.259	8.40	0.358	0.69	0.9	78.3	28	5.4	5.4	4.3	0.3	<1	10	0.3	6.2
N255681	Drill Core	0.075	10.7	5	<0.01	31	0.216	8.38	0.649	1.00	2.4	75.9	25	4.0	4.4	3.6	0.2	<1	8	0.2	7.4
N255682	Drill Core	0.082	13.2	6	0.02	38	0.244	8.95	0.186	0.39	2.1	82.7	32	5.1	4.6	4.0	0.3	<1	12	0.9	6.0
N255683	Drill Core	0.074	9.2	7	0.03	22	0.238	8.60	0.432	0.76	0.6	68.5	24	4.6	5.1	3.6	0.2	<1	12	0.4	7.5
N255684	Drill Core	0.072	9.1	7	0.03	27	0.244	8.94	0.262	0.73	0.5	68.3	23	5.6	5.8	3.7	0.2	<1	15	0.2	7.3
N255685	Drill Core	0.062	7.9	7	0.04	25	0.252	9.02	0.171	0.95	0.4	67.3	21	7.6	6.9	3.5	0.3	<1	20	0.6	6.7
N255686	Drill Core	0.083	12.8	7	0.03	33	0.233	9.25	0.167	0.79	0.5	69.8	33	5.1	5.9	3.6	0.3	<1	18	2.3	6.3
N255687	Drill Core	0.089	9.1	8	0.09	37	0.235	9.37	0.353	2.25	0.3	69.4	24	7.2	6.8	3.4	0.2	<1	21	0.9	5.7
N255688	Rock Pulp	0.059	13.9	30	0.74	512	0.139	5.91	1.692	1.57	4.2	20.9	22	3.0	8.6	1.8	<0.1	<1	6	11.8	0.6



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255659	Drill Core	1.4	2.0	0.07	0.071	29	0.6	0.9
N255660	Drill Core	14.5	2.5	0.28	0.108	37	0.5	1.2
N255661	Rock Pulp	38.8	0.7	0.17	0.401	3	3.7	<0.5
N255662	Drill Core	4.5	2.2	0.39	0.131	37	1.0	0.7
N255663	Drill Core	9.6	2.4	0.33	0.172	32	1.0	0.7
N255664	Drill Core	0.8	2.3	<0.05	0.326	45	1.2	0.6
N255665	Drill Core	30.3	2.0	0.42	0.210	23	0.9	1.8
N255666	Rock	6.0	0.3	<0.05	<0.005	<1	11.0	<0.5
N255667	Drill Core	36.7	2.0	0.49	0.074	17	<0.5	2.7
N255668	Drill Core	52.9	2.4	0.24	0.082	15	<0.5	2.0
N255669	Drill Core	35.4	2.1	0.16	0.011	17	<0.5	2.2
N255670	Drill Core	45.9	2.0	0.11	0.009	17	<0.5	2.1
N255671	Rock Pulp	35.2	0.5	0.09	0.445	<1	1.7	<0.5
N255672	Drill Core	40.8	1.8	0.17	0.009	16	<0.5	2.6
N255673	Drill Core	15.0	2.2	0.16	0.008	7	0.6	1.6
N255674	Drill Core	13.8	2.9	0.12	<0.005	6	<0.5	2.2
N255675	Drill Core	16.5	2.7	0.18	<0.005	5	0.7	2.3
N255676	Rock	0.6	<0.1	<0.05	<0.005	<1	4.7	<0.5
N255677	Drill Core	23.6	2.2	0.24	0.018	12	<0.5	2.3
N255678	Drill Core	0.4	2.5	<0.05	0.026	5	<0.5	<0.5
N255679	Drill Core	0.8	2.3	0.08	0.101	8	1.1	<0.5
N255680	Drill Core	0.8	2.2	0.07	0.030	6	1.0	<0.5
N255681	Drill Core	1.0	2.0	<0.05	0.025	5	0.7	<0.5
N255682	Drill Core	3.2	2.4	0.09	0.117	7	0.9	0.6
N255683	Drill Core	6.5	1.8	0.10	0.109	9	1.0	0.6
N255684	Drill Core	14.9	1.8	0.09	0.057	11	0.8	0.9
N255685	Drill Core	24.2	1.9	0.07	0.047	11	<0.5	1.3
N255686	Drill Core	17.4	1.9	<0.05	0.081	11	0.5	1.0
N255687	Drill Core	50.2	1.9	0.09	0.116	15	0.8	2.8
N255688	Rock Pulp	36.1	0.6	0.11	0.333	4	2.9	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255689	Drill Core	7.88	9	2.3	137.6	28.5	49	0.1	11.3	27.3	29	5.96	33	1.3	2.6	561	0.3	1.1	0.6	166	0.16
N255690	Drill Core	7.83	7	2.2	128.7	22.3	140	0.1	10.7	28.6	35	5.21	26	1.3	2.5	362	1.6	1.0	0.7	157	0.14
N255691	Drill Core	7.12	7	1.9	135.6	20.9	101	<0.1	14.8	28.4	42	6.26	27	1.3	2.3	264	1.3	0.8	0.6	173	0.17
N255692	Drill Core	7.85	4	1.5	69.1	14.3	250	<0.1	9.9	28.6	390	5.80	16	1.1	1.5	139	2.3	0.5	1.1	174	0.16
N255693	Drill Core	7.34	2	1.3	42.3	10.4	97	<0.1	10.2	29.7	724	5.96	3	1.2	1.8	34	0.9	0.2	1.1	187	0.20
N255694	Drill Core	7.21	3	1.4	48.1	7.6	73	<0.1	9.2	28.6	670	5.99	2	1.1	1.5	27	0.6	0.2	1.7	190	0.17
N255695	Rock Pulp	0.06	187	397.5	1969.7	24.6	61	12.9	15.4	9.9	767	3.64	16	0.8	1.8	433	0.8	32.3	1.8	87	2.77
N255696	Drill Core	8.25	4	1.8	51.8	9.0	89	<0.1	12.3	35.5	761	6.09	4	1.1	1.8	45	0.9	0.3	0.6	176	0.22
N255697	Drill Core	6.95	4	2.1	51.5	6.0	93	<0.1	9.5	30.5	996	5.92	3	1.0	1.7	43	0.8	0.1	0.2	200	0.18
N255698	Drill Core	7.71	4	3.1	79.1	9.8	72	<0.1	11.7	26.1	460	5.25	2	1.2	1.7	25	0.3	0.1	0.5	195	0.17
N255699	Drill Core	7.04	3	2.7	104.7	12.7	78	<0.1	13.7	27.7	478	5.61	2	1.2	1.9	17	0.4	0.2	0.3	179	0.18
N255700	Rock Pulp	0.06	617	340.9	3928.7	25.9	103	14.7	24.5	67.9	1467	4.65	2028	2.0	1.2	445	1.1	38.9	13.1	60	5.87
N255701	Drill Core	6.73	4	2.2	93.6	11.6	69	<0.1	13.0	26.0	386	5.12	5	1.3	1.6	22	0.3	0.3	0.6	186	0.16
N255702	Drill Core	7.24	3	2.4	94.8	8.5	61	0.1	18.6	28.2	191	6.06	<1	1.4	2.2	51	0.2	0.2	0.4	187	0.18
N255703	Drill Core	6.92	3	1.9	162.3	7.6	82	<0.1	15.9	28.7	89	6.06	15	1.3	2.3	124	0.5	0.5	0.4	178	0.19
N255704	Rock	1.94	2	<0.1	1.8	0.4	2	<0.1	<0.1	0.8	105	0.09	<1	0.1	<0.1	76	<0.1	<0.1	<0.1	<1	35.72
N255705	Drill Core	5.83	5	2.6	116.9	12.7	96	0.1	17.0	27.2	82	6.16	5	1.3	2.5	112	0.5	0.4	0.4	183	0.14
N255706	Drill Core	7.51	3	2.6	142.2	13.7	170	<0.1	16.6	30.0	123	5.95	14	1.2	2.2	77	0.9	0.7	0.5	166	0.15
N255707	Drill Core	6.32	2	2.6	96.5	13.4	258	0.1	17.1	32.8	112	5.93	8	1.0	2.1	70	1.0	0.6	0.4	158	0.12
N255708	Drill Core	6.28	3	3.1	111.0	16.0	207	<0.1	18.2	35.1	107	6.10	13	1.0	2.3	87	1.1	0.4	0.7	163	0.13
N255709	Drill Core	6.58	3	2.9	79.6	15.6	145	0.3	15.9	26.2	134	5.59	6	1.1	2.4	76	1.0	0.3	0.5	164	0.19
N255710	Rock Pulp	0.06	194	376.0	1824.2	24.8	55	11.9	14.9	10.1	710	3.42	14	0.8	1.6	438	0.8	32.3	2.0	82	2.64
N255711	Drill Core	4.70	2	3.2	63.5	10.9	137	0.2	15.3	29.7	227	5.73	4	1.2	2.1	86	0.7	0.4	0.4	157	0.14
N255712	Drill Core	5.07	2	3.2	76.7	12.7	100	<0.1	15.7	32.5	418	6.00	2	1.6	2.1	61	0.3	0.3	0.3	177	0.17
N255713	Drill Core	9.62	2	3.8	70.5	13.3	129	<0.1	12.1	23.1	387	5.37	6	1.6	3.0	103	0.6	0.5	0.4	157	0.94
N255714	Drill Core	3.67	<2	4.4	157.6	18.0	60	<0.1	9.6	20.4	89	5.18	21	0.6	1.7	163	0.3	1.3	0.4	129	2.50
N255716	Drill Core	7.80	5	3.8	30.3	18.9	72	<0.1	9.3	19.6	119	3.14	<1	0.8	2.2	118	0.2	0.2	0.2	176	1.78
N255717	Drill Core	8.43	2	3.5	22.0	20.7	72	<0.1	3.4	4.9	70	1.37	<1	0.8	2.6	173	0.1	<0.1	0.1	191	1.55
N255718	Drill Core	7.27	3	3.1	30.6	14.3	75	<0.1	7.3	20.9	175	4.68	<1	0.8	2.1	116	0.1	0.2	0.3	154	2.58
N255719	Drill Core	8.05	5	7.5	27.6	11.6	100	<0.1	9.2	17.3	239	3.14	2	0.8	2.1	114	0.2	0.2	0.2	179	1.45



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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255689	Drill Core	0.090	10.8	10	0.11	35	0.233	9.50	0.405	2.38	0.4	73.8	29	7.7	8.5	3.4	0.2	<1	23	1.8	6.6
N255690	Drill Core	0.085	9.7	11	0.11	32	0.234	9.69	0.365	1.71	2.8	73.5	26	4.5	8.0	3.7	0.2	<1	20	1.7	5.9
N255691	Drill Core	0.076	7.6	14	0.14	20	0.236	9.18	0.496	1.88	0.4	73.7	21	3.2	9.5	3.7	0.3	<1	23	0.7	7.0
N255692	Drill Core	0.075	3.5	7	2.10	18	0.246	8.90	0.471	1.67	0.3	76.4	10	1.6	8.0	3.1	0.2	1	22	4.8	6.6
N255693	Drill Core	0.070	3.7	8	2.75	19	0.359	8.58	0.752	1.14	0.6	86.9	11	1.0	9.1	4.1	0.3	1	19	4.9	6.5
N255694	Drill Core	0.068	2.9	7	2.79	19	0.355	8.15	0.644	1.03	0.2	89.8	8	0.9	7.0	3.8	0.3	<1	20	5.2	6.4
N255695	Rock Pulp	0.057	7.1	20	0.86	757	0.204	7.11	2.268	1.89	1.6	9.4	16	3.0	10.2	2.6	0.1	<1	9	7.7	0.3
N255696	Drill Core	0.087	4.8	7	2.43	16	0.289	8.60	0.917	1.16	0.3	79.5	13	0.9	8.0	3.1	0.2	<1	21	4.5	7.0
N255697	Drill Core	0.099	4.2	8	2.65	18	0.461	8.42	1.234	0.86	0.3	74.0	11	0.8	6.5	4.4	0.3	<1	21	4.8	5.6
N255698	Drill Core	0.071	3.3	12	2.19	20	0.312	8.87	0.330	1.46	0.4	81.2	10	2.6	6.6	3.6	0.2	<1	20	4.8	5.5
N255699	Drill Core	0.053	3.7	12	2.36	19	0.269	8.11	0.187	1.40	0.3	83.7	12	2.3	6.8	3.5	0.2	<1	20	5.5	6.1
N255700	Rock Pulp	0.066	14.1	33	0.76	556	0.138	5.88	1.728	1.60	3.6	20.7	22	2.9	8.2	1.7	<0.1	<1	6	10.2	0.6
N255701	Drill Core	0.048	3.0	12	1.80	18	0.278	8.52	0.268	1.59	0.3	90.6	10	2.0	6.5	3.6	0.3	<1	18	5.0	5.5
N255702	Drill Core	0.051	4.5	10	1.93	17	0.190	8.80	0.354	1.35	0.8	93.6	13	1.7	8.9	2.7	0.2	<1	21	5.4	6.9
N255703	Drill Core	0.070	5.3	7	1.56	22	0.104	8.38	0.351	1.47	0.3	99.8	14	1.1	7.9	1.6	0.1	<1	22	4.8	7.0
N255704	Rock	0.007	1.2	2	1.87	17	0.006	0.06	0.019	0.02	<0.1	1.8	<1	0.1	2.2	0.2	<0.1	<1	<1	1.0	<0.1
N255705	Drill Core	0.072	6.3	11	1.46	18	0.177	8.22	0.354	1.39	0.7	97.1	18	1.4	8.6	2.5	0.2	<1	23	5.4	7.1
N255706	Drill Core	0.074	4.3	9	1.47	16	0.097	8.31	0.541	1.58	0.4	90.0	13	1.3	8.5	1.4	0.1	<1	21	5.3	6.9
N255707	Drill Core	0.059	3.6	9	1.52	16	0.087	8.21	0.607	1.49	0.5	84.3	11	1.0	7.0	1.4	0.1	<1	23	5.2	6.9
N255708	Drill Core	0.069	4.8	9	1.53	14	0.098	8.24	0.654	1.27	0.3	81.1	14	1.2	6.9	1.6	0.1	<1	22	5.2	7.1
N255709	Drill Core	0.061	5.5	9	1.43	17	0.130	8.01	0.680	1.39	1.6	89.9	15	1.1	7.5	2.3	0.2	<1	21	5.6	6.4
N255710	Rock Pulp	0.049	7.4	19	0.82	749	0.182	6.94	2.190	1.74	1.6	10.3	17	2.8	10.6	2.7	0.2	1	8	6.8	0.3
N255711	Drill Core	0.079	4.9	9	1.60	15	0.133	7.75	0.495	1.45	0.6	103.4	15	1.0	7.8	2.7	0.2	<1	19	5.5	6.6
N255712	Drill Core	0.102	3.2	14	2.32	23	0.263	8.43	0.249	1.21	0.3	131.2	10	1.4	8.2	4.9	0.3	<1	19	10.2	6.7
N255713	Drill Core	0.089	8.9	15	2.32	41	0.243	8.49	0.195	1.40	0.3	126.7	23	1.5	14.3	4.6	0.3	1	17	7.6	6.7
N255714	Drill Core	0.058	7.6	13	0.77	28	0.076	8.28	0.519	1.98	<0.1	47.0	20	2.1	7.9	0.7	<0.1	<1	16	2.1	7.8
N255716	Drill Core	0.069	7.8	10	1.00	49	0.179	9.61	0.895	2.00	0.4	43.3	20	2.0	6.8	1.8	0.1	<1	20	2.9	4.8
N255717	Drill Core	0.092	10.7	8	0.51	110	0.172	10.29	0.939	2.63	0.7	41.3	26	2.0	5.3	1.6	0.1	<1	18	2.3	2.6
N255718	Drill Core	0.069	8.3	7	1.08	22	0.155	8.76	0.615	1.90	0.2	38.4	21	1.7	6.9	1.6	0.1	1	17	2.8	7.2
N255719	Drill Core	0.082	7.3	11	1.29	31	0.181	9.92	0.625	2.66	0.2	39.0	19	1.8	6.4	1.6	0.1	1	18	3.7	4.5



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255689	Drill Core	60.0	2.0	0.21	0.138	12	0.6	3.5
N255690	Drill Core	50.3	2.0	0.28	0.106	17	0.7	2.6
N255691	Drill Core	60.1	2.0	0.16	0.077	17	<0.5	3.0
N255692	Drill Core	33.2	1.9	0.31	0.094	18	0.7	2.5
N255693	Drill Core	16.3	2.4	0.13	0.133	11	<0.5	1.6
N255694	Drill Core	11.7	2.4	0.18	0.102	13	<0.5	1.5
N255695	Rock Pulp	31.5	0.6	0.09	0.419	<1	1.4	<0.5
N255696	Drill Core	23.3	2.2	0.11	0.204	11	0.6	1.5
N255697	Drill Core	11.7	2.0	0.08	0.106	10	0.7	1.1
N255698	Drill Core	20.2	2.2	0.07	0.045	10	0.5	1.7
N255699	Drill Core	16.9	2.3	0.08	0.041	15	1.0	1.4
N255700	Rock Pulp	33.5	0.7	0.14	0.342	3	2.8	<0.5
N255701	Drill Core	22.2	2.4	0.06	0.063	11	0.9	1.8
N255702	Drill Core	22.9	2.5	0.06	0.038	17	<0.5	1.2
N255703	Drill Core	36.2	2.7	0.09	0.014	18	<0.5	1.5
N255704	Rock	0.5	<0.1	<0.05	<0.005	<1	11.9	<0.5
N255705	Drill Core	36.9	2.6	0.09	0.036	21	<0.5	1.7
N255706	Drill Core	45.9	2.3	0.07	0.048	17	<0.5	1.8
N255707	Drill Core	41.3	2.1	0.07	0.062	27	<0.5	1.7
N255708	Drill Core	35.5	2.1	0.06	0.045	26	<0.5	1.5
N255709	Drill Core	43.0	2.3	0.06	0.021	22	<0.5	1.7
N255710	Rock Pulp	33.6	0.5	0.11	0.369	<1	1.1	<0.5
N255711	Drill Core	37.8	2.6	0.08	0.024	25	<0.5	1.5
N255712	Drill Core	16.3	3.3	0.11	0.026	18	0.7	1.0
N255713	Drill Core	29.7	3.2	0.12	0.010	25	1.3	1.2
N255714	Drill Core	54.8	1.1	0.10	0.009	21	6.2	1.4
N255716	Drill Core	48.7	1.0	0.09	0.011	9	<0.5	1.2
N255717	Drill Core	56.9	1.1	0.09	0.007	5	<0.5	1.3
N255718	Drill Core	46.5	1.0	0.10	0.014	16	<0.5	1.1
N255719	Drill Core	58.5	1.1	0.12	0.042	9	<0.5	1.4



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Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01
N255720	Drill Core	7.28	5	2.1	34.8	13.4	94	<0.1	4.6	16.1	476	4.95	<1	1.0	2.3	71	0.2	0.2	0.3	151	2.42
N255721	Rock	2.49	<2	<0.1	1.9	0.6	3	<0.1	<0.1	0.7	107	0.11	2	0.2	0.1	64	<0.1	<0.1	<0.1	<1	33.80
N255722	Drill Core	8.29	3	4.4	38.2	14.4	81	<0.1	5.3	17.6	332	5.26	<1	0.8	1.9	84	0.2	0.2	0.4	170	2.11
N255723	Drill Core	8.11	3	2.3	41.0	21.5	90	<0.1	7.6	18.9	170	4.64	<1	0.8	1.8	52	0.2	0.2	0.4	183	0.41
N255724	Drill Core	6.95	4	4.7	71.7	21.0	82	<0.1	11.4	25.5	555	5.97	6	0.9	1.9	43	0.2	0.6	0.5	162	1.48
N255725	Rock Pulp	0.06	191	377.1	1878.6	25.0	55	12.4	14.6	9.9	702	3.51	15	0.9	1.7	396	0.7	29.4	1.8	83	2.65
N255726	Drill Core	7.95	3	2.1	54.0	19.9	107	<0.1	6.4	19.1	328	4.74	5	1.0	2.1	41	0.3	0.4	0.3	159	1.29
N255727	Drill Core	8.95	3	4.1	55.1	26.1	93	<0.1	13.2	24.2	318	5.10	4	0.8	1.5	33	0.3	1.0	0.5	179	0.47
N255728	Drill Core	7.07	4	4.6	98.9	21.8	91	<0.1	6.4	18.7	222	5.11	12	1.2	2.0	59	0.3	0.8	0.4	138	1.34
N255729	Drill Core	6.66	<2	2.8	47.3	20.7	78	<0.1	6.6	20.0	127	5.34	<1	0.9	1.6	49	0.2	0.3	0.3	171	0.25
N255730	Drill Core	5.83	2	2.4	48.2	17.0	55	<0.1	9.0	23.1	95	4.92	<1	0.7	1.6	47	<0.1	0.4	0.3	180	0.22
N255731	Drill Core	6.59	3	1.7	54.9	19.0	64	<0.1	12.9	28.4	151	4.86	4	0.7	1.6	70	<0.1	0.4	0.2	189	0.67
N255732	Rock	2.10	2	0.1	2.7	0.8	5	0.1	<0.1	0.4	126	0.10	2	0.3	0.2	90	<0.1	0.2	<0.1	1	33.66
N255733	Drill Core	7.92	3	3.9	62.1	15.2	57	<0.1	15.0	42.4	285	5.70	1	0.9	1.9	107	<0.1	0.5	0.4	146	1.22
N255734	Drill Core	5.44	5	3.5	42.7	10.7	59	<0.1	10.6	23.5	495	5.95	<1	1.0	1.9	50	<0.1	0.5	0.3	166	0.59
N255735	Drill Core	6.18	3	2.2	25.7	8.8	57	<0.1	7.2	19.0	597	4.96	<1	1.0	1.9	51	<0.1	0.3	0.2	174	0.30
N255736	Drill Core	7.51	5	3.6	43.4	12.9	94	<0.1	6.8	18.9	771	4.45	2	1.0	1.6	38	<0.1	0.4	0.3	174	0.50
N255737	Drill Core	8.42	3	4.5	33.5	18.9	71	<0.1	4.9	18.7	486	4.26	<1	1.4	3.1	111	0.2	0.5	0.2	137	2.11
N255738	Rock Pulp	0.06	618	346.5	3996.5	29.4	108	16.5	27.2	75.5	1464	4.92	2077	2.4	1.5	476	0.9	45.6	14.4	62	6.10
N255739	Drill Core	7.05	3	4.0	50.0	14.1	66	<0.1	4.3	13.6	636	4.25	4	1.4	3.2	145	0.1	0.6	0.2	136	1.64
N255740	Drill Core	5.81	5	5.9	46.8	14.3	73	<0.1	4.3	14.6	653	4.27	<1	1.6	3.1	123	0.1	0.6	0.3	126	0.37
N255741	Drill Core	4.66	6	7.9	73.4	13.9	89	0.1	13.2	20.6	1107	4.98	4	1.6	3.0	102	0.2	0.6	0.3	176	1.07
N255742	Drill Core	7.82	4	4.5	101.9	10.4	76	<0.1	12.9	19.9	1834	4.96	9	2.3	5.0	110	<0.1	0.6	0.2	158	2.34
N255743	Drill Core	8.08	3	2.7	94.5	14.2	73	0.6	10.4	19.1	1484	5.08	1	2.5	4.0	31	<0.1	0.3	0.3	139	0.34
N255744	Rock Pulp	0.06	202	377.5	1930.8	24.7	63	13.3	16.0	10.3	801	3.70	16	0.8	1.7	440	0.5	33.4	1.8	88	2.70
N255745	Drill Core	7.34	3	1.8	96.4	10.4	50	<0.1	12.7	20.8	1005	5.28	4	2.0	3.3	82	0.1	0.4	0.3	161	0.76
N255746	Drill Core	6.64	3	2.1	94.0	8.6	77	<0.1	11.6	18.9	1139	4.77	2	2.2	5.0	248	0.2	0.3	0.2	151	1.76
N255747	Drill Core	7.92	3	3.9	95.9	7.4	54	<0.1	13.1	18.9	1565	4.62	1	1.9	4.4	434	0.2	0.6	0.1	169	2.36
N255748	Drill Core	7.53	9	1.5	120.9	8.6	75	<0.1	13.6	21.8	1244	5.16	<1	1.4	2.7	137	<0.1	0.3	0.2	148	0.78
N255749	Drill Core	6.76	5	1.4	96.0	9.6	71	<0.1	12.9	22.0	1942	5.42	6	1.5	3.1	73	<0.1	0.6	0.3	164	1.89



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		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255720	Drill Core	0.070	9.1	4	2.11	35	0.189	8.32	0.445	1.65	0.2	46.5	23	1.5	8.7	2.0	0.1	<1	14	3.7	7.2
N255721	Rock	0.007	1.2	1	2.03	22	0.004	0.28	0.121	0.08	<0.1	3.0	1	0.2	2.4	0.5	<0.1	<1	<1	1.0	<0.1
N255722	Drill Core	0.066	7.8	6	1.35	20	0.154	9.04	0.750	1.73	0.5	36.9	20	1.9	7.4	1.5	<0.1	2	17	3.7	7.3
N255723	Drill Core	0.073	6.0	7	0.82	19	0.160	7.92	0.694	2.33	0.3	36.2	16	1.8	4.8	1.4	<0.1	<1	10	3.6	5.2
N255724	Drill Core	0.070	6.3	13	1.84	17	0.157	8.54	0.601	1.92	0.3	44.5	17	2.1	9.1	1.4	<0.1	<1	18	4.6	6.7
N255725	Rock Pulp	0.053	6.6	20	0.83	678	0.190	6.83	2.283	1.85	1.6	10.1	16	2.5	9.5	2.4	0.2	<1	9	7.9	0.3
N255726	Drill Core	0.080	7.2	7	1.27	20	0.147	8.32	0.468	2.43	0.2	41.1	18	2.0	7.0	1.4	0.1	2	16	3.5	6.1
N255727	Drill Core	0.071	3.4	13	1.51	20	0.118	8.11	0.562	2.38	0.2	40.6	10	2.0	4.6	1.1	<0.1	1	19	5.2	5.8
N255728	Drill Core	0.078	7.7	5	0.70	21	0.157	8.06	0.537	2.29	0.3	44.2	20	2.9	8.0	1.5	0.1	<1	17	2.5	6.5
N255729	Drill Core	0.061	7.5	4	0.69	15	0.162	7.94	0.634	2.44	0.3	35.0	20	2.0	8.0	1.5	<0.1	<1	13	3.2	5.9
N255730	Drill Core	0.049	7.1	6	0.37	20	0.168	7.79	0.722	2.58	0.2	30.7	19	2.3	7.4	1.4	0.1	<1	9	2.6	5.3
N255731	Drill Core	0.068	8.1	6	0.69	18	0.149	8.34	0.762	2.24	0.2	31.8	21	2.2	6.2	1.4	<0.1	1	8	2.5	5.7
N255732	Rock	0.009	2.0	2	1.85	22	0.007	0.23	0.090	0.08	0.1	2.7	1	0.2	3.1	0.7	<0.1	<1	<1	1.2	<0.1
N255733	Drill Core	0.079	8.2	9	1.19	21	0.121	8.53	0.801	1.85	0.2	43.3	20	1.8	7.8	1.1	<0.1	<1	15	4.0	7.1
N255734	Drill Core	0.083	6.1	10	1.83	18	0.174	8.21	0.610	2.12	0.3	45.9	17	2.0	9.5	1.7	0.1	<1	19	6.9	6.7
N255735	Drill Core	0.080	4.5	9	2.11	17	0.160	7.67	1.132	1.79	0.3	51.2	13	1.7	8.2	2.0	0.1	2	18	7.3	5.4
N255736	Drill Core	0.077	4.1	8	2.34	33	0.266	7.60	0.548	1.69	0.4	42.6	11	1.7	7.5	2.9	0.2	1	17	8.1	4.7
N255737	Drill Core	0.082	11.4	5	1.32	26	0.170	8.20	1.284	1.46	0.3	46.0	25	1.7	10.0	2.1	0.1	<1	17	5.9	6.3
N255738	Rock Pulp	0.067	16.9	35	0.79	434	0.147	6.23	1.789	1.68	4.6	20.6	26	3.2	9.7	1.7	<0.1	1	6	14.1	0.6
N255739	Drill Core	0.077	11.8	4	1.78	30	0.185	8.38	1.957	1.34	0.4	46.5	25	1.6	11.1	2.5	0.2	<1	16	5.9	5.7
N255740	Drill Core	0.081	10.0	4	1.78	27	0.180	8.12	1.856	1.75	0.5	48.9	23	1.6	12.1	2.6	0.2	2	15	7.8	4.8
N255741	Drill Core	0.098	8.2	20	2.54	32	0.370	8.66	1.176	2.55	1.9	85.9	21	2.3	16.8	5.7	0.4	1	17	9.5	4.7
N255742	Drill Core	0.089	13.1	17	2.59	35	0.400	7.90	1.170	2.21	0.4	138.0	34	2.5	24.4	7.1	0.5	2	21	6.4	4.3
N255743	Drill Core	0.085	7.1	10	2.41	25	0.240	7.45	0.533	2.70	0.8	172.9	22	1.7	16.1	5.1	0.3	1	16	8.8	5.6
N255744	Rock Pulp	0.055	6.6	19	0.85	723	0.207	6.95	2.329	1.88	1.6	9.5	16	3.1	10.6	2.6	0.2	2	9	9.1	0.3
N255745	Drill Core	0.101	7.6	13	1.97	22	0.212	7.41	1.149	2.44	0.3	118.4	21	2.2	16.4	3.8	0.3	1	19	6.6	6.0
N255746	Drill Core	0.099	16.5	16	1.89	25	0.255	7.64	2.121	1.23	0.2	106.1	40	1.5	26.4	4.6	0.3	<1	20	5.0	4.6
N255747	Drill Core	0.089	14.4	19	1.74	37	0.344	8.10	1.906	1.55	0.4	85.4	35	3.7	23.8	5.9	0.4	1	22	6.2	4.2
N255748	Drill Core	0.087	9.1	12	2.40	25	0.177	7.20	1.428	1.48	0.3	76.1	25	1.6	13.5	2.8	0.2	1	19	8.6	6.0
N255749	Drill Core	0.101	10.4	14	2.78	27	0.288	7.03	0.715	1.18	0.5	69.7	27	1.4	15.3	4.4	0.3	2	20	14.7	5.1



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255720	Drill Core	39.4	1.3	0.09	0.011	14	<0.5	1.1
N255721	Rock	2.1	0.1	<0.05	<0.005	<1	4.3	<0.5
N255722	Drill Core	41.7	1.0	0.14	0.015	18	<0.5	1.1
N255723	Drill Core	52.6	1.1	0.15	0.005	14	<0.5	1.3
N255724	Drill Core	38.0	1.3	0.16	0.011	21	1.3	1.1
N255725	Rock Pulp	31.3	0.6	<0.05	0.382	<1	1.1	<0.5
N255726	Drill Core	50.7	1.1	0.15	<0.005	13	1.0	1.3
N255727	Drill Core	38.0	1.1	0.11	0.007	14	0.8	1.2
N255728	Drill Core	68.3	1.3	0.17	0.020	16	2.9	1.4
N255729	Drill Core	66.4	1.1	0.11	0.018	19	0.5	1.6
N255730	Drill Core	71.0	0.8	0.13	0.012	13	0.6	1.7
N255731	Drill Core	56.8	0.8	0.13	0.012	12	<0.5	1.2
N255732	Rock	2.3	0.1	<0.05	0.009	<1	14.7	<0.5
N255733	Drill Core	46.5	1.2	0.17	0.018	19	0.9	1.0
N255734	Drill Core	44.1	1.1	0.13	0.016	19	1.2	1.2
N255735	Drill Core	33.9	1.3	0.09	0.010	14	<0.5	1.0
N255736	Drill Core	22.8	1.1	0.06	0.020	12	0.9	1.1
N255737	Drill Core	33.8	1.4	0.11	0.027	15	0.6	0.8
N255738	Rock Pulp	36.6	0.8	0.18	0.375	3	4.5	<0.5
N255739	Drill Core	33.2	1.2	0.06	0.014	13	0.6	0.8
N255740	Drill Core	41.5	1.3	0.06	0.017	12	1.0	0.9
N255741	Drill Core	48.3	2.4	0.11	0.009	12	1.2	1.3
N255742	Drill Core	53.4	4.0	0.14	0.010	6	1.4	1.2
N255743	Drill Core	50.4	4.9	0.07	0.009	17	0.7	1.2
N255744	Rock Pulp	30.6	0.6	0.09	0.348	<1	1.4	<0.5
N255745	Drill Core	50.5	3.0	0.18	0.010	15	1.2	0.9
N255746	Drill Core	35.6	3.3	0.15	0.013	8	1.7	<0.5
N255747	Drill Core	35.9	2.6	0.26	0.005	8	1.9	0.7
N255748	Drill Core	33.6	2.4	0.28	0.012	19	1.2	0.9
N255749	Drill Core	19.2	2.3	0.08	<0.005	19	1.6	0.9



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255750	Rock	2.38	<2	0.2	4.0	0.6	7	<0.1	0.4	0.6	131	0.11	<1	<0.1	<0.1	83	<0.1	0.1	<0.1	1	32.87
N255751	Drill Core	7.96	5	4.2	90.5	9.7	50	<0.1	13.6	20.6	1613	4.97	4	1.4	3.4	48	0.2	0.4	0.4	161	2.62
N255752	Drill Core	7.85	7	15.0	99.4	9.6	49	<0.1	13.8	21.2	1387	5.02	6	1.7	3.9	123	0.1	0.5	0.2	173	2.94
N255753	Drill Core	8.48	4	31.6	56.3	10.0	20	<0.1	12.1	20.9	299	5.13	<1	1.5	3.4	49	0.2	0.3	0.2	163	3.63
N255754	Drill Core	7.66	2	7.3	53.2	17.3	70	<0.1	12.4	19.8	588	5.17	2	1.7	3.5	51	0.3	0.5	0.2	151	2.12
N255755	Drill Core	7.43	3	5.8	77.3	10.0	44	<0.1	12.7	19.6	496	5.15	4	1.6	4.0	39	0.2	0.5	0.2	148	2.73
N255756	Drill Core	3.80	3	6.2	47.0	8.5	36	<0.1	11.8	20.3	489	5.21	1	1.7	3.9	38	<0.1	0.2	0.1	143	2.35
N255758	Drill Core	7.22	3	5.0	47.6	8.9	34	<0.1	13.0	19.0	649	5.33	5	1.9	3.9	40	0.2	0.3	0.1	157	1.34
N255759	Drill Core	8.52	3	4.8	46.8	10.5	53	<0.1	13.6	20.1	713	5.74	4	1.8	3.2	34	0.2	0.3	0.1	154	0.99
N255760	Drill Core	8.77	3	4.2	55.0	10.8	49	<0.1	12.2	16.4	659	5.17	4	1.8	2.7	64	0.1	1.0	0.2	152	1.43
N255761	Drill Core	7.82	3	2.6	68.3	12.8	43	<0.1	10.8	16.0	1259	4.41	7	1.2	2.8	106	0.2	0.7	0.2	128	2.95
N255762	Drill Core	8.63	2	4.3	86.7	7.8	29	<0.1	11.4	17.5	383	4.50	8	1.6	3.6	179	0.1	1.0	0.1	137	4.36
N255763	Rock Pulp	0.06	644	324.8	3758.9	27.0	109	15.9	26.8	70.0	1374	4.71	1991	2.1	1.4	475	0.7	42.2	13.6	59	5.68
N255764	Drill Core	7.97	7	3.4	57.4	9.2	37	<0.1	11.5	17.5	755	4.33	6	1.5	3.2	200	<0.1	0.4	0.1	123	4.50
N255765	Drill Core	7.82	6	5.2	52.4	13.7	58	<0.1	12.3	20.9	785	5.45	5	1.5	3.1	74	<0.1	0.4	0.2	159	1.81
N255766	Drill Core	8.17	8	1.9	77.6	11.3	69	<0.1	12.7	18.4	1458	4.94	4	1.1	2.7	126	0.2	0.4	0.1	163	3.40
N255767	Drill Core	8.08	8	1.7	84.6	11.8	80	<0.1	15.4	20.7	1643	5.83	5	1.4	2.9	275	0.6	0.5	<0.1	189	4.06
N255768	Drill Core	8.63	6	2.5	34.2	11.7	37	<0.1	11.2	18.8	851	4.88	1	1.6	3.3	107	<0.1	0.3	0.1	152	2.27
N255769	Rock	2.02	<2	<0.1	3.1	0.6	3	<0.1	<0.1	0.6	128	0.12	<1	0.2	<0.1	73	<0.1	<0.1	<0.1	1	31.19
N255770	Drill Core	8.56	6	2.1	71.1	14.3	46	<0.1	10.9	17.4	790	5.22	2	1.6	3.6	137	0.1	0.3	0.3	162	1.75
N255771	Drill Core	8.09	5	1.5	44.8	14.0	63	<0.1	13.8	20.2	1248	5.28	3	1.6	3.1	288	<0.1	0.2	<0.1	176	2.50
N255772	Drill Core	8.30	7	1.4	51.2	19.0	57	<0.1	11.7	19.0	1336	5.80	2	1.6	3.1	434	0.1	0.2	<0.1	176	2.65
N255773	Drill Core	8.15	11	1.8	93.3	23.1	48	<0.1	10.4	21.0	1307	4.87	1	1.5	3.0	400	0.2	0.2	<0.1	165	2.79
N255774	Drill Core	8.27	8	1.7	46.5	21.3	51	<0.1	11.7	20.8	1318	5.37	1	1.5	3.3	578	<0.1	0.1	0.1	182	2.19
N255775	Rock Pulp	0.06	224	373.2	1893.2	25.2	59	12.8	15.3	10.0	768	3.62	13	1.0	1.9	421	0.5	29.5	1.8	86	2.74
N255776	Drill Core	7.83	8	1.8	38.6	28.1	56	<0.1	11.5	19.4	1332	5.07	2	1.6	3.5	521	0.1	0.2	0.2	176	2.76
N255777	Drill Core	7.56	7	1.5	37.9	28.5	61	<0.1	10.3	17.7	954	5.76	1	1.3	2.9	414	<0.1	0.2	0.2	168	2.05
N255778	Drill Core	7.92	6	1.1	34.8	34.3	69	<0.1	9.1	16.0	996	5.66	2	1.3	2.9	338	<0.1	0.2	<0.1	169	3.24
N255779	Drill Core	8.32	4	0.9	41.3	36.2	97	<0.1	9.4	18.6	1610	5.09	2	1.4	3.2	351	<0.1	0.2	<0.1	165	3.52
N255780	Drill Core	7.82	5	1.0	28.0	32.7	126	<0.1	10.5	18.9	1331	5.34	2	1.4	3.0	365	0.2	0.2	<0.1	182	3.11



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255750	Rock	0.006	2.2	2	2.08	16	0.006	0.08	0.024	0.02	0.4	1.5	1	0.1	2.2	0.3	<0.1	<1	<1	1.2	<0.1	
N255751	Drill Core	0.091	11.1	12	2.64	30	0.277	7.05	0.515	1.70	0.5	73.8	29	2.8	14.6	4.1	0.3	<1	20	12.3	4.8	
N255752	Drill Core	0.105	12.5	14	2.00	29	0.319	7.15	1.174	1.56	0.9	77.5	33	3.8	20.9	5.4	0.4	1	21	9.2	5.1	
N255753	Drill Core	0.090	11.5	13	1.07	34	0.179	7.64	0.382	2.46	1.0	72.6	29	4.6	20.4	2.9	0.2	1	22	5.4	6.0	
N255754	Drill Core	0.098	10.0	11	2.20	20	0.147	7.45	0.518	1.89	0.6	84.1	27	4.1	19.9	2.2	0.2	<1	20	10.3	6.0	
N255755	Drill Core	0.099	13.3	15	1.49	35	0.155	7.39	0.848	2.00	0.5	78.2	32	4.4	20.1	2.4	0.2	<1	22	8.0	5.8	
N255756	Drill Core	0.090	12.2	14	1.10	20	0.147	7.38	1.496	1.88	0.5	78.7	30	3.8	18.1	2.3	0.2	<1	20	5.3	5.9	
N255758	Drill Core	0.100	11.0	10	1.75	20	0.181	8.36	1.984	1.92	0.5	77.7	27	3.0	21.1	2.9	0.2	<1	22	7.9	6.3	
N255759	Drill Core	0.094	8.2	10	1.85	17	0.180	7.65	1.418	2.06	0.5	68.8	24	2.3	17.3	2.8	0.2	<1	21	7.2	6.5	
N255760	Drill Core	0.110	6.7	9	1.78	16	0.183	7.89	1.170	1.87	0.4	71.5	20	3.2	17.9	2.9	0.2	1	20	6.3	6.1	
N255761	Drill Core	0.095	7.5	15	2.10	17	0.241	7.18	1.683	1.22	0.4	62.2	22	2.7	13.2	3.8	0.3	1	18	6.6	7.0	
N255762	Drill Core	0.088	10.1	13	1.42	24	0.198	6.96	0.599	1.82	0.4	68.2	25	3.8	17.4	3.5	0.2	<1	17	5.4	8.5	
N255763	Rock Pulp	0.071	16.0	34	0.74	442	0.143	5.87	1.684	1.70	3.8	20.9	24	2.9	8.9	1.7	0.1	1	6	12.1	0.6	
N255764	Drill Core	0.076	8.9	11	1.59	20	0.193	6.32	1.208	1.52	0.4	59.1	24	2.3	14.9	3.5	0.2	<1	16	6.1	8.5	
N255765	Drill Core	0.078	9.8	12	2.37	34	0.242	8.09	0.626	2.53	0.4	56.6	27	2.0	14.3	3.6	0.3	<1	20	6.2	6.4	
N255766	Drill Core	0.082	10.2	18	2.95	62	0.289	7.62	0.602	1.73	0.3	39.2	26	2.2	15.0	3.7	0.2	1	21	7.7	3.9	
N255767	Drill Core	0.069	12.3	26	2.67	83	0.369	8.47	1.274	1.08	0.2	47.6	30	2.7	20.9	5.1	0.3	2	25	8.0	3.6	
N255768	Drill Core	0.067	12.9	14	2.31	45	0.201	8.47	0.405	2.77	0.2	50.8	32	2.6	18.8	2.2	0.2	1	23	6.0	3.4	
N255769	Rock	0.008	1.4	2	2.45	18	0.006	0.08	0.024	0.02	<0.1	1.5	1	<0.1	2.3	0.2	<0.1	<1	<1	1.0	<0.1	
N255770	Drill Core	0.084	10.9	15	2.64	45	0.238	7.93	0.855	2.28	0.2	65.3	28	2.1	18.7	3.3	0.2	<1	21	8.0	4.0	
N255771	Drill Core	0.076	12.0	20	3.06	82	0.309	8.52	1.160	1.38	0.2	54.5	30	2.1	18.2	4.0	0.3	2	23	9.9	2.4	
N255772	Drill Core	0.080	11.2	18	2.77	89	0.309	8.21	1.403	1.14	0.3	47.7	28	2.8	18.2	4.1	0.3	2	22	10.9	2.4	
N255773	Drill Core	0.082	10.8	15	2.39	57	0.300	8.14	1.542	1.38	0.3	46.0	27	2.0	19.5	4.2	0.3	1	23	7.0	2.9	
N255774	Drill Core	0.080	10.9	15	2.84	88	0.271	8.62	1.463	1.52	0.3	43.1	28	1.8	16.7	3.4	0.2	1	25	9.2	2.8	
N255775	Rock Pulp	0.057	7.0	19	0.87	708	0.195	7.37	2.345	1.81	1.6	10.0	17	2.8	11.0	2.7	0.2	<1	10	8.4	0.3	
N255776	Drill Core	0.093	12.9	15	3.11	248	0.336	8.76	1.454	1.03	0.3	48.4	31	2.5	17.6	4.5	0.3	2	26	10.6	2.3	
N255777	Drill Core	0.089	10.0	14	2.37	56	0.261	8.71	1.261	2.28	0.2	47.5	26	2.6	18.0	2.7	0.2	1	21	6.7	3.3	
N255778	Drill Core	0.082	10.9	13	2.38	68	0.297	8.37	1.552	1.63	0.1	43.5	28	2.2	16.5	3.4	0.2	1	20	7.8	2.7	
N255779	Drill Core	0.077	12.4	13	3.46	338	0.372	8.78	1.880	0.76	0.3	47.9	29	2.2	16.6	6.0	0.3	2	21	17.0	2.2	
N255780	Drill Core	0.080	11.8	15	3.23	145	0.331	8.43	1.805	0.99	0.2	50.1	28	1.8	15.6	4.2	0.3	1	23	13.2	3.0	



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Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255750	Rock	0.8	<0.1	<0.05	<0.005	<1	11.0	<0.5
N255751	Drill Core	36.8	2.2	0.13	0.011	10	1.6	1.2
N255752	Drill Core	43.7	2.4	0.19	0.041	11	1.2	1.2
N255753	Drill Core	77.9	2.5	0.10	0.038	15	<0.5	1.7
N255754	Drill Core	49.9	2.6	0.10	0.014	14	<0.5	1.3
N255755	Drill Core	56.7	2.4	0.06	0.028	19	0.6	1.4
N255756	Drill Core	55.3	2.3	<0.05	0.038	14	0.5	1.0
N255758	Drill Core	58.6	2.5	<0.05	0.029	14	<0.5	1.1
N255759	Drill Core	53.1	2.0	0.13	0.029	13	0.5	1.0
N255760	Drill Core	49.5	2.2	<0.05	0.022	11	<0.5	1.0
N255761	Drill Core	22.3	1.7	0.17	0.008	9	0.8	0.7
N255762	Drill Core	42.5	1.9	0.09	0.041	13	0.5	1.1
N255763	Rock Pulp	36.2	0.7	0.22	0.363	3	3.4	<0.5
N255764	Drill Core	44.5	1.8	<0.05	0.091	9	1.1	0.9
N255765	Drill Core	74.3	1.9	0.10	0.049	12	0.8	1.3
N255766	Drill Core	42.0	1.2	0.08	<0.005	7	1.8	0.9
N255767	Drill Core	31.8	1.4	0.11	<0.005	4	1.3	0.6
N255768	Drill Core	82.6	1.4	0.07	<0.005	8	1.1	0.9
N255769	Rock	0.6	<0.1	<0.05	<0.005	1	6.5	<0.5
N255770	Drill Core	53.2	1.9	0.10	<0.005	8	1.2	1.1
N255771	Drill Core	35.9	1.7	0.06	<0.005	4	0.9	0.7
N255772	Drill Core	29.7	1.4	0.06	<0.005	5	0.8	0.5
N255773	Drill Core	39.7	1.5	<0.05	<0.005	8	1.1	0.6
N255774	Drill Core	33.8	1.3	0.06	<0.005	7	0.7	0.6
N255775	Rock Pulp	37.2	0.5	0.07	0.375	<1	0.9	<0.5
N255776	Drill Core	28.3	1.5	0.14	<0.005	3	1.2	0.5
N255777	Drill Core	60.0	1.3	0.09	<0.005	8	0.8	1.0
N255778	Drill Core	43.7	1.2	<0.05	<0.005	4	0.6	0.8
N255779	Drill Core	21.3	1.4	0.07	<0.005	3	0.9	0.5
N255780	Drill Core	23.1	1.4	0.10	<0.005	4	0.8	0.6



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Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003509.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255781	Rock	1.97	<2	<0.1	11.8	1.5	7	<0.1	<0.1	0.8	141	0.11	1	0.5	0.3	77	<0.1	<0.1	<0.1	1	30.09
N255782	Drill Core	7.91	4	1.3	47.7	27.8	89	<0.1	10.6	20.0	1229	5.65	3	1.2	3.3	283	<0.1	0.4	0.1	167	3.28
N255783	Drill Core	8.48	4	1.5	25.4	24.8	76	<0.1	10.4	19.1	800	5.16	5	1.3	3.3	270	0.2	0.5	0.2	154	3.16
N255784	Drill Core	8.43	3	1.4	24.2	24.4	73	<0.1	9.7	20.7	772	5.12	12	1.3	3.4	317	<0.1	0.5	0.2	160	2.32
N255785	Drill Core	7.90	3	1.9	71.6	15.4	94	<0.1	14.0	22.7	1138	5.46	7	1.0	2.7	333	0.1	0.7	0.1	204	3.56
N255786	Drill Core	3.79	4	2.7	95.0	16.6	129	<0.1	17.5	24.4	1377	6.30	12	1.0	3.0	464	0.2	0.5	<0.1	230	4.28
N255788	Drill Core	8.35	6	2.6	186.3	20.0	68	<0.1	19.9	29.5	774	7.23	3	1.4	3.6	492	<0.1	0.3	<0.1	241	3.04
N255789	Drill Core	8.65	5	2.4	372.1	16.2	95	0.1	20.0	27.8	1031	6.75	3	1.3	3.3	562	0.7	0.4	0.2	219	4.42
N255790	Drill Core	8.50	<2	1.4	210.1	6.0	75	0.1	14.0	20.3	1167	4.81	4	1.3	3.0	512	<0.1	0.3	<0.1	181	9.86
N255791	Drill Core	4.00	3	1.5	82.3	6.0	77	<0.1	13.9	23.7	1067	5.01	5	1.5	3.4	405	<0.1	0.3	0.1	180	7.20
N255793	Drill Core	7.90	3	2.1	85.4	5.9	95	<0.1	14.6	21.6	1352	5.55	4	1.8	4.0	668	0.2	0.3	<0.1	195	4.49
N255794	Drill Core	8.15	3	1.9	104.4	6.7	86	<0.1	11.7	20.3	1248	5.46	5	1.5	3.7	462	0.2	0.3	0.2	180	3.55
N255795	Drill Core	7.91	3	1.7	91.9	5.8	90	<0.1	12.2	19.8	1361	5.55	6	1.7	3.9	506	0.1	0.4	0.1	190	3.79
N255796	Drill Core	8.31	3	2.1	95.8	6.6	90	0.1	12.6	21.9	1248	5.53	3	1.9	4.1	604	<0.1	0.2	<0.1	186	3.79
N255797	Drill Core	8.13	3	1.7	108.6	7.0	90	<0.1	12.1	20.8	1403	5.69	5	1.7	4.0	508	0.2	0.3	<0.1	191	4.24
N255798	Rock Pulp	0.06	602	325.8	3885.1	27.1	107	15.4	23.9	66.0	1427	4.71	2033	2.1	1.3	437	0.9	37.2	14.4	59	5.74
N255799	Drill Core	8.21	4	1.6	95.0	8.3	85	<0.1	12.3	21.3	1140	5.47	7	1.8	4.2	360	0.2	0.4	0.2	184	4.23
N255800	Drill Core	8.17	4	1.8	89.6	5.6	89	<0.1	12.3	20.4	1370	5.59	4	1.8	4.3	503	0.1	0.3	<0.1	191	4.18
N255801	Drill Core	7.83	4	1.6	98.7	5.2	80	<0.1	11.9	22.7	1304	5.70	4	1.6	3.7	464	<0.1	0.2	<0.1	192	4.26
N255802	Drill Core	7.71	3	2.2	89.3	5.5	71	<0.1	12.5	20.7	1320	5.43	4	1.8	4.4	333	<0.1	0.4	<0.1	188	4.81
N255803	Drill Core	7.59	3	1.6	90.0	7.3	78	<0.1	13.0	21.6	1530	5.85	7	1.5	3.7	227	<0.1	0.5	0.2	208	3.49
N255804	Drill Core	8.00	3	2.6	77.3	8.3	78	<0.1	14.5	25.0	1358	6.27	5	1.7	3.5	349	0.2	0.4	0.3	222	2.27
N255805	Rock	1.70	2	<0.1	14.0	1.1	5	<0.1	0.8	0.8	138	0.22	4	0.2	0.1	76	<0.1	<0.1	<0.1	<1	33.81
N255806	Drill Core	7.75	2	2.1	85.2	7.1	70	<0.1	12.9	22.6	1258	5.64	4	1.8	4.5	243	<0.1	0.4	0.1	191	3.59
N255807	Drill Core	7.76	2	2.4	97.6	6.2	82	<0.1	12.1	21.2	1574	5.54	4	2.0	4.8	331	<0.1	0.4	<0.1	191	3.97
N255808	Drill Core	7.27	<2	3.2	62.8	24.6	169	<0.1	17.1	25.9	1850	6.76	3	2.1	4.2	195	0.6	0.3	0.3	234	3.27
N255809	Drill Core	7.62	4	1.7	92.3	5.6	76	<0.1	13.9	22.5	1352	5.52	2	1.7	4.1	699	<0.1	0.1	0.2	196	3.17
N255810	Drill Core	7.86	3	2.7	135.9	6.1	74	<0.1	16.7	25.3	1297	5.94	2	1.6	4.0	728	<0.1	0.1	0.2	197	3.51
N255811	Rock Pulp	0.06	195	386.3	1955.3	23.6	57	13.0	15.4	10.1	746	3.66	12	0.9	1.9	422	0.5	30.8	1.9	85	2.80
N255812	Drill Core	7.38	3	1.8	91.0	5.5	76	<0.1	13.5	19.6	1427	5.56	1	1.5	3.5	808	<0.1	0.3	0.2	211	3.14



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255781	Rock	0.008	1.4	2	2.53	21	0.006	0.44	0.211	0.15	<0.1	3.3	2	0.2	4.2	1.5	0.1	<1	<1	1.4	<0.1	
N255782	Drill Core	0.077	11.2	15	2.43	49	0.348	7.89	1.861	1.29	0.2	70.3	28	1.8	19.4	5.2	0.3	<1	24	5.0	4.0	
N255783	Drill Core	0.068	14.1	15	2.02	70	0.334	8.31	3.032	1.07	0.4	59.9	34	2.0	18.2	3.9	0.3	1	21	6.0	4.0	
N255784	Drill Core	0.066	13.5	11	1.84	56	0.323	8.73	3.633	1.21	0.5	48.6	32	2.1	19.2	3.6	0.2	<1	23	6.4	3.3	
N255785	Drill Core	0.074	10.3	19	2.33	58	0.408	8.56	2.062	1.05	0.4	44.9	26	1.6	18.3	4.4	0.3	1	24	5.1	3.9	
N255786	Drill Core	0.067	10.0	23	2.27	141	0.426	8.82	2.122	1.02	0.4	47.5	25	2.2	19.2	5.1	0.3	<1	26	5.7	3.1	
N255788	Drill Core	0.092	10.1	21	0.67	39	0.416	8.71	3.282	1.64	0.3	57.1	27	3.0	19.6	5.8	0.4	<1	23	2.7	3.9	
N255789	Drill Core	0.105	11.4	29	2.07	105	0.452	9.22	2.765	1.23	0.3	54.7	29	3.0	20.5	5.3	0.4	<1	25	7.1	4.0	
N255790	Drill Core	0.075	11.9	15	1.95	179	0.382	7.47	1.543	0.74	0.3	43.6	26	1.1	19.6	4.8	0.3	<1	21	4.3	2.3	
N255791	Drill Core	0.085	12.5	16	2.06	78	0.383	8.14	1.314	0.75	0.4	50.7	28	1.4	18.9	5.3	0.4	<1	22	5.0	3.5	
N255793	Drill Core	0.087	13.7	19	2.29	74	0.428	8.70	2.159	1.47	0.4	60.2	32	1.5	22.6	6.3	0.4	<1	24	7.4	2.8	
N255794	Drill Core	0.091	10.8	16	2.12	55	0.421	8.13	1.905	1.48	0.3	61.8	28	1.7	20.7	6.0	0.4	<1	21	9.6	3.5	
N255795	Drill Core	0.091	12.0	16	2.14	79	0.463	8.31	2.145	1.71	0.4	70.2	30	1.2	22.5	7.3	0.5	<1	22	8.1	2.4	
N255796	Drill Core	0.094	13.2	17	2.11	108	0.445	8.56	2.360	1.80	0.6	83.9	33	1.2	24.8	7.4	0.5	<1	24	7.5	2.1	
N255797	Drill Core	0.095	13.4	16	2.17	523	0.458	8.53	2.343	1.79	0.3	76.9	33	1.1	24.9	7.4	0.5	2	23	5.8	1.2	
N255798	Rock Pulp	0.062	13.6	32	0.77	681	0.138	6.08	1.781	1.61	4.3	20.4	21	2.7	7.9	1.7	<0.1	<1	6	10.6	0.7	
N255799	Drill Core	0.089	14.8	16	2.16	96	0.430	8.51	1.773	1.11	0.4	72.8	35	1.8	23.7	7.0	0.4	<1	22	7.9	3.5	
N255800	Drill Core	0.090	14.5	17	2.21	170	0.459	8.63	2.323	1.73	0.4	84.0	36	1.1	25.8	7.5	0.5	<1	23	4.3	2.0	
N255801	Drill Core	0.093	13.2	16	2.14	345	0.456	8.53	2.336	1.81	0.3	75.3	32	1.0	23.7	7.3	0.5	<1	22	3.8	1.9	
N255802	Drill Core	0.092	15.9	16	2.07	292	0.489	8.62	1.774	1.72	0.5	84.0	36	1.5	26.8	7.5	0.5	1	20	7.2	2.6	
N255803	Drill Core	0.094	13.9	18	2.61	128	0.542	8.44	1.561	1.34	0.4	74.7	33	1.3	24.7	7.6	0.5	<1	22	8.8	3.4	
N255804	Drill Core	0.099	9.2	16	2.71	35	0.554	8.37	1.442	2.46	0.5	75.6	26	2.1	23.2	7.7	0.5	1	22	8.2	4.9	
N255805	Rock	0.006	1.3	1	2.03	15	0.005	0.16	0.060	0.04	<0.1	2.9	1	0.1	2.6	0.2	<0.1	<1	<1	1.3	<0.1	
N255806	Drill Core	0.094	13.9	17	2.35	84	0.509	8.65	1.686	1.69	0.5	82.5	34	1.5	26.2	8.1	0.6	<1	22	6.4	4.0	
N255807	Drill Core	0.095	15.6	16	2.22	64	0.539	8.59	1.538	1.86	0.5	90.3	38	1.6	28.4	8.8	0.6	<1	22	6.9	2.9	
N255808	Drill Core	0.128	12.2	19	2.86	49	0.646	9.32	0.926	3.05	0.4	104.6	32	2.0	27.5	9.8	0.7	1	25	8.6	5.0	
N255809	Drill Core	0.094	13.7	20	2.15	72	0.508	8.32	2.041	1.72	0.4	88.1	33	1.5	25.5	7.5	0.5	<1	22	5.7	2.3	
N255810	Drill Core	0.096	12.9	19	2.18	51	0.491	8.50	2.088	1.51	0.4	86.5	31	1.3	23.7	7.2	0.5	<1	21	7.5	3.0	
N255811	Rock Pulp	0.052	7.7	20	0.88	732	0.199	7.27	2.167	1.88	1.7	9.2	18	2.9	10.6	2.5	0.2	1	9	8.8	0.3	
N255812	Drill Core	0.099	11.1	21	2.24	58	0.550	8.33	2.207	1.68	0.3	96.9	29	1.4	23.5	7.8	0.5	<1	23	6.5	2.9	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255781	Rock	5.4	0.2	<0.05	<0.005	<1	8.3	<0.5
N255782	Drill Core	37.7	2.0	0.06	<0.005	9	0.6	0.7
N255783	Drill Core	38.6	1.6	0.13	<0.005	9	0.9	0.6
N255784	Drill Core	38.7	1.4	0.06	<0.005	5	1.0	0.5
N255785	Drill Core	30.8	1.3	0.11	<0.005	8	0.8	<0.5
N255786	Drill Core	25.5	1.3	0.10	<0.005	4	0.9	<0.5
N255788	Drill Core	56.2	1.6	0.06	<0.005	8	1.1	0.5
N255789	Drill Core	38.4	1.7	0.16	<0.005	12	1.4	<0.5
N255790	Drill Core	25.0	1.2	0.10	<0.005	5	2.9	<0.5
N255791	Drill Core	26.6	1.6	0.07	<0.005	7	1.1	<0.5
N255793	Drill Core	47.8	1.8	0.07	<0.005	5	0.8	0.5
N255794	Drill Core	44.3	1.9	0.07	<0.005	7	0.7	0.5
N255795	Drill Core	42.9	2.1	0.07	<0.005	4	<0.5	<0.5
N255796	Drill Core	48.3	2.4	0.07	<0.005	5	0.9	<0.5
N255797	Drill Core	46.1	2.3	0.08	<0.005	3	0.7	<0.5
N255798	Rock Pulp	35.8	0.6	0.18	0.358	4	2.8	<0.5
N255799	Drill Core	34.7	2.2	0.06	<0.005	7	0.8	<0.5
N255800	Drill Core	49.6	2.5	0.06	<0.005	4	0.7	<0.5
N255801	Drill Core	45.2	2.4	<0.05	<0.005	4	0.7	<0.5
N255802	Drill Core	45.8	2.4	0.11	<0.005	5	1.0	<0.5
N255803	Drill Core	28.1	2.6	0.07	<0.005	7	1.4	<0.5
N255804	Drill Core	50.6	2.4	<0.05	<0.005	11	1.9	0.9
N255805	Rock	1.3	<0.1	<0.05	<0.005	<1	4.7	<0.5
N255806	Drill Core	44.3	2.5	0.08	<0.005	5	0.9	0.6
N255807	Drill Core	43.6	2.8	0.07	<0.005	5	0.9	<0.5
N255808	Drill Core	49.2	3.3	0.07	<0.005	16	1.6	1.1
N255809	Drill Core	38.5	2.6	<0.05	<0.005	7	1.1	<0.5
N255810	Drill Core	32.1	2.5	<0.05	0.012	8	0.7	<0.5
N255811	Rock Pulp	35.3	0.5	0.09	0.416	<1	1.4	<0.5
N255812	Drill Core	30.3	2.7	0.09	0.005	8	1.0	<0.5



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255813	Drill Core	7.61	2	2.1	160.0	5.9	83	<0.1	14.3	22.4	1249	5.63	<1	1.1	3.2	885	0.1	0.2	0.2	213	3.34
N255814	Drill Core	8.37	3	2.8	91.6	6.7	72	<0.1	14.1	20.6	1090	5.43	1	1.2	3.5	682	<0.1	0.2	0.1	195	3.14
N255815	Drill Core	6.85	<2	3.8	99.7	6.9	82	<0.1	14.0	22.2	1085	5.40	2	1.4	3.7	745	0.3	0.2	0.1	191	3.69
N255816	Drill Core	3.45	2	2.6	105.8	6.9	83	<0.1	15.1	22.6	1310	5.61	4	1.5	3.8	468	0.1	0.2	0.2	195	3.68
N255818	Drill Core	7.69	5	2.5	71.7	7.8	79	<0.1	13.2	19.3	1323	5.41	<1	1.5	3.8	795	0.2	0.2	0.3	197	2.92
N255819	Drill Core	8.66	3	2.8	109.0	9.2	79	<0.1	14.9	21.8	935	6.02	<1	1.6	3.7	608	0.3	0.2	0.4	189	2.55
N255488	Drill Core	4.72	6	7.1	184.5	51.2	117	<0.1	14.9	24.4	144	7.29	10	2.1	3.1	307	1.5	0.4	1.8	204	0.25
N255506	Drill Core	2.95	7	4.2	120.9	36.3	18	<0.1	14.1	19.9	32	5.01	24	2.5	4.1	660	0.3	0.7	1.1	221	0.14
N255611	Drill Core	4.14	3	3.0	48.0	12.9	138	<0.1	3.8	14.8	457	4.28	15	0.7	1.9	97	0.4	0.6	0.3	109	3.14
N255619	Drill Core	4.28	3	23.8	77.0	15.3	270	<0.1	6.9	19.8	198	5.84	9	0.7	1.8	115	0.6	0.9	<0.1	127	3.42
N255632	Drill Core	4.08	4	4.2	45.3	38.5	166	<0.1	7.4	15.9	177	4.67	7	0.7	1.9	198	0.8	0.4	0.3	142	3.35



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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
N255813	Drill Core	0.100	11.1	22	2.34	64	0.513	8.67	2.217	1.36	0.4	82.7	29	1.6	22.7	6.5	0.4	1	24	10.8	3.6
N255814	Drill Core	0.100	12.0	21	2.33	56	0.442	8.58	2.076	1.71	0.3	60.1	30	1.6	22.2	6.0	0.4	<1	22	15.7	3.8
N255815	Drill Core	0.098	13.7	20	2.24	69	0.414	8.55	1.929	1.25	0.3	56.6	34	1.5	22.7	5.6	0.3	1	22	11.3	3.6
N255816	Drill Core	0.102	13.8	20	2.34	59	0.478	8.77	2.106	1.53	0.4	58.6	35	1.4	24.1	7.1	0.4	<1	22	11.0	4.2
N255818	Drill Core	0.099	12.9	20	2.36	38	0.475	8.70	2.096	1.99	0.4	51.1	32	1.5	23.7	7.1	0.4	<1	23	8.9	4.1
N255819	Drill Core	0.105	12.3	16	2.56	30	0.434	8.37	1.888	2.75	0.3	59.2	32	1.5	24.4	6.5	0.4	1	23	10.2	6.1
N255488	Drill Core	0.088	7.2	24	0.25	13	0.366	8.72	0.259	1.65	2.4	106.4	23	7.2	9.9	5.2	0.3	<1	21	8.4	8.4
N255506	Drill Core	0.093	9.1	23	0.06	15	0.281	9.19	0.055	0.78	0.5	116.8	25	5.0	12.9	4.0	0.3	<1	25	19.2	5.5
N255611	Drill Core	0.115	11.4	5	1.25	78	0.305	8.52	0.094	1.72	0.6	42.7	26	2.0	17.5	4.5	0.2	<1	15	4.9	6.9
N255619	Drill Core	0.062	11.3	7	1.31	65	0.274	8.87	0.102	1.50	0.9	37.0	26	5.4	12.6	3.3	0.2	<1	18	3.1	8.9
N255632	Drill Core	0.086	9.4	7	1.29	54	0.322	8.04	0.070	1.45	0.2	41.9	23	3.4	12.1	4.0	0.3	<1	15	2.9	7.6



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255813	Drill Core	30.2	2.4	0.06	0.007	14	0.8	<0.5
N255814	Drill Core	41.4	1.8	<0.05	0.005	16	0.9	0.6
N255815	Drill Core	33.5	1.7	<0.05	0.014	16	0.8	<0.5
N255816	Drill Core	41.0	1.7	0.10	0.006	10	1.0	<0.5
N255818	Drill Core	51.3	1.6	0.06	<0.005	14	1.0	0.6
N255819	Drill Core	72.5	2.0	0.08	<0.005	19	0.8	0.8
N255488	Drill Core	37.7	2.7	0.60	0.083	24	1.0	4.5
N255506	Drill Core	16.2	3.3	0.44	0.041	15	<0.5	1.8
N255611	Drill Core	53.8	1.6	0.12	0.005	18	1.0	2.1
N255619	Drill Core	35.7	1.2	0.08	0.081	32	0.6	1.9
N255632	Drill Core	40.2	1.1	0.14	0.098	9	0.5	2.3



QUALITY CONTROL REPORT

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255677	Drill Core	7.04	3	3.5	63.0	42.0	51	<0.1	7.7	20.4	69	5.41	9	1.4	2.5	527	0.4	0.6	1.3	168	0.17
REP N255677	QC			3.7	60.2	41.0	51	<0.1	7.3	20.3	68	5.32	8	1.3	2.5	526	0.5	0.6	1.3	164	0.14
REP N255681	QC		3																		
N255711	Drill Core	4.70	2	3.2	63.5	10.9	137	0.2	15.3	29.7	227	5.73	4	1.2	2.1	86	0.7	0.4	0.4	157	0.14
REP N255711	QC			3.6	63.3	10.9	130	0.2	15.9	31.2	232	5.91	4	1.3	2.3	88	0.8	0.3	0.4	166	0.15
REP N255716	QC		3																		
N255747	Drill Core	7.92	3	3.9	95.9	7.4	54	<0.1	13.1	18.9	1565	4.62	1	1.9	4.4	434	0.2	0.6	0.1	169	2.36
REP N255747	QC			3.4	92.4	7.0	50	<0.1	13.1	19.8	1522	4.56	3	2.0	4.2	412	<0.1	0.5	<0.1	165	2.31
N255750	Rock	2.38	<2	0.2	4.0	0.6	7	<0.1	0.4	0.6	131	0.11	<1	<0.1	<0.1	83	<0.1	0.1	<0.1	1	32.87
REP N255750	QC		<2																		
N255784	Drill Core	8.43	3	1.4	24.2	24.4	73	<0.1	9.7	20.7	772	5.12	12	1.3	3.4	317	<0.1	0.5	0.2	160	2.32
REP N255784	QC			1.5	22.8	24.2	69	<0.1	9.4	20.7	735	5.07	12	1.3	3.3	316	0.1	0.5	0.2	160	2.30
REP N255785	QC		4																		
N255814	Drill Core	8.37	3	2.8	91.6	6.7	72	<0.1	14.1	20.6	1090	5.43	1	1.2	3.5	682	<0.1	0.2	0.1	195	3.14
REP N255814	QC			2.4	89.2	6.6	71	<0.1	14.7	20.7	1091	5.50	2	1.3	3.4	662	<0.1	0.2	0.1	197	3.15
N255816	Drill Core	3.45	2	2.6	105.8	6.9	83	<0.1	15.1	22.6	1310	5.61	4	1.5	3.8	468	0.1	0.2	0.2	195	3.68
REP N255816	QC		2																		
Core Reject Duplicates																					
N255681	Drill Core	4.38	2	2.7	29.2	50.8	13	0.4	8.1	18.1	22	3.42	11	1.3	2.8	328	0.3	0.5	0.5	102	0.11
DUP N255681	QC		3	2.6	29.4	51.8	14	0.4	8.5	18.3	24	3.36	11	1.2	3.1	349	0.2	0.5	0.5	99	0.10
N255716	Drill Core	7.80	5	3.8	30.3	18.9	72	<0.1	9.3	19.6	119	3.14	<1	0.8	2.2	118	0.2	0.2	0.2	176	1.78
DUP N255716	QC		3	3.3	28.7	18.9	76	<0.1	8.9	18.4	114	3.14	<1	0.9	2.1	112	0.1	0.1	0.2	171	1.73
N255785	Drill Core	7.90	3	1.9	71.6	15.4	94	<0.1	14.0	22.7	1138	5.46	7	1.0	2.7	333	0.1	0.7	0.1	204	3.56
DUP N255785	QC		3	2.0	72.0	15.6	95	<0.1	14.7	23.2	1153	5.55	8	1.0	2.7	343	0.1	0.7	0.2	206	3.66
N255611	Drill Core	4.14	3	3.0	48.0	12.9	138	<0.1	3.8	14.8	457	4.28	15	0.7	1.9	97	0.4	0.6	0.3	109	3.14
DUP N255611	QC		3	2.9	47.2	13.7	143	<0.1	4.1	14.1	400	4.24	14	0.7	1.9	101	0.5	0.5	0.4	107	3.39
Reference Materials																					
STD OREAS25A-4A	Standard			2.3	35.5	25.5	53	<0.1	46.6	7.7	513	6.80	11	2.9	15.5	50	<0.1	0.6	0.3	158	0.29



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255677	Drill Core	0.096	8.2	7	0.24	31	0.319	8.50	0.153	1.11	0.3	84.1	22	6.1	12.9	4.3	0.3	<1	17	1.5	6.1
REP N255677	QC	0.095	8.4	7	0.24	27	0.325	8.39	0.151	1.09	0.3	86.0	23	5.8	13.1	4.3	0.3	<1	17	1.7	6.1
REP N255681	QC																				
N255711	Drill Core	0.079	4.9	9	1.60	15	0.133	7.75	0.495	1.45	0.6	103.4	15	1.0	7.8	2.7	0.2	<1	19	5.5	6.6
REP N255711	QC	0.083	5.9	8	1.66	16	0.139	7.68	0.507	1.51	0.6	104.0	18	1.0	7.7	2.8	0.2	<1	19	5.4	6.8
REP N255716	QC																				
N255747	Drill Core	0.089	14.4	19	1.74	37	0.344	8.10	1.906	1.55	0.4	85.4	35	3.7	23.8	5.9	0.4	1	22	6.2	4.2
REP N255747	QC	0.095	15.3	16	1.70	34	0.315	8.02	1.872	1.43	0.5	85.6	37	3.6	23.7	5.7	0.3	<1	22	5.7	4.1
N255750	Rock	0.006	2.2	2	2.08	16	0.006	0.08	0.024	0.02	0.4	1.5	1	0.1	2.2	0.3	<0.1	<1	<1	1.2	<0.1
REP N255750	QC																				
N255784	Drill Core	0.066	13.5	11	1.84	56	0.323	8.73	3.633	1.21	0.5	48.6	32	2.1	19.2	3.6	0.2	<1	23	6.4	3.3
REP N255784	QC	0.063	13.0	11	1.84	62	0.318	8.68	3.607	1.23	0.4	49.2	31	1.9	18.5	3.5	0.2	1	21	6.0	3.3
REP N255785	QC																				
N255814	Drill Core	0.100	12.0	21	2.33	56	0.442	8.58	2.076	1.71	0.3	60.1	30	1.6	22.2	6.0	0.4	<1	22	15.7	3.8
REP N255814	QC	0.097	12.0	21	2.31	45	0.441	8.50	2.086	1.72	0.3	57.9	31	1.7	22.7	5.9	0.4	<1	22	15.2	3.8
N255816	Drill Core	0.102	13.8	20	2.34	59	0.478	8.77	2.106	1.53	0.4	58.6	35	1.4	24.1	7.1	0.4	<1	22	11.0	4.2
REP N255816	QC																				
Core Reject Duplicates																					
N255681	Drill Core	0.075	10.7	5	<0.01	31	0.216	8.38	0.649	1.00	2.4	75.9	25	4.0	4.4	3.6	0.2	<1	8	0.2	7.4
DUP N255681	QC	0.073	12.1	6	<0.01	33	0.208	8.42	0.646	0.94	2.4	75.1	28	3.7	4.5	3.3	0.2	<1	9	0.3	7.1
N255716	Drill Core	0.069	7.8	10	1.00	49	0.179	9.61	0.895	2.00	0.4	43.3	20	2.0	6.8	1.8	0.1	<1	20	2.9	4.8
DUP N255716	QC	0.074	7.6	10	1.01	57	0.178	9.66	0.860	1.97	0.3	42.4	20	1.7	6.1	1.7	0.1	<1	19	3.0	4.9
N255785	Drill Core	0.074	10.3	19	2.33	58	0.408	8.56	2.062	1.05	0.4	44.9	26	1.6	18.3	4.4	0.3	1	24	5.1	3.9
DUP N255785	QC	0.074	10.1	19	2.35	48	0.404	8.72	2.062	1.06	0.4	44.8	25	1.5	18.7	4.5	0.3	<1	24	4.6	4.0
N255611	Drill Core	0.115	11.4	5	1.25	78	0.305	8.52	0.094	1.72	0.6	42.7	26	2.0	17.5	4.5	0.2	<1	15	4.9	6.9
DUP N255611	QC	0.115	11.6	4	1.26	118	0.316	8.45	0.095	1.74	0.5	41.2	27	2.2	17.6	4.5	0.3	<1	15	4.8	7.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	22.2	115	0.34	150	0.886	9.52	0.122	0.52	1.8	156.5	51	3.8	10.6	19.2	1.3	1	13	38.7	<0.1



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QUALITY CONTROL REPORT

VAN18003509.1

Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255677	Drill Core	23.6	2.2	0.24	0.018	12	<0.5	2.3
REP N255677	QC	23.8	2.3	0.27	0.017	11	0.6	2.5
REP N255681	QC							
N255711	Drill Core	37.8	2.6	0.08	0.024	25	<0.5	1.5
REP N255711	QC	39.3	2.6	0.08	0.023	25	<0.5	1.5
REP N255716	QC							
N255747	Drill Core	35.9	2.6	0.26	0.005	8	1.9	0.7
REP N255747	QC	37.3	2.6	0.28	0.005	9	1.6	0.6
N255750	Rock	0.8	<0.1	<0.05	<0.005	<1	11.0	<0.5
REP N255750	QC							
N255784	Drill Core	38.7	1.4	0.06	<0.005	5	1.0	0.5
REP N255784	QC	37.8	1.3	0.07	<0.005	7	0.9	0.6
REP N255785	QC							
N255814	Drill Core	41.4	1.8	<0.05	0.005	16	0.9	0.6
REP N255814	QC	38.6	1.6	<0.05	<0.005	13	0.9	0.5
N255816	Drill Core	41.0	1.7	0.10	0.006	10	1.0	<0.5
REP N255816	QC							
Core Reject Duplicates								
N255681	Drill Core	1.0	2.0	<0.05	0.025	5	0.7	<0.5
DUP N255681	QC	1.1	2.0	<0.05	0.023	5	0.6	<0.5
N255716	Drill Core	48.7	1.0	0.09	0.011	9	<0.5	1.2
DUP N255716	QC	45.5	1.1	0.05	0.011	9	<0.5	1.2
N255785	Drill Core	30.8	1.3	0.11	<0.005	8	0.8	<0.5
DUP N255785	QC	31.6	1.4	0.13	<0.005	8	0.8	<0.5
N255611	Drill Core	53.8	1.6	0.12	0.005	18	1.0	2.1
DUP N255611	QC	55.3	1.6	0.15	<0.005	20	0.8	2.1
Reference Materials								
STD OREAS25A-4A	Standard	62.1	4.3	0.11	<0.005	1	<0.5	<0.5



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QUALITY CONTROL REPORT

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.3	33.1	24.9	45	<0.1	43.4	7.4	466	6.49	10	2.7	15.6	45	<0.1	0.6	0.4	158	0.28
STD OREAS25A-4A	Standard			2.4	33.7	24.5	45	<0.1	45.3	7.4	500	6.49	11	2.8	15.9	46	<0.1	0.5	0.3	156	0.31
STD OREAS25A-4A	Standard			2.4	36.4	26.3	48	<0.1	47.6	8.6	469	6.90	11	2.8	16.7	48	<0.1	0.5	0.4	168	0.30
STD OREAS25A-4A	Standard			2.4	32.0	24.2	40	<0.1	47.3	7.5	496	6.73	10	2.6	14.7	45	<0.1	0.8	0.3	169	0.30
STD OREAS45E	Standard			2.4	789.1	19.2	50	0.3	475.4	59.4	594	26.00	18	2.6	12.9	17	<0.1	1.0	0.3	325	0.07
STD OREAS45E	Standard			2.7	789.3	19.0	51	0.3	475.8	62.3	594	25.97	17	2.5	13.2	16	<0.1	1.1	0.3	330	0.07
STD OREAS45E	Standard			2.4	780.5	18.9	48	0.3	462.4	57.0	610	24.27	18	2.5	13.2	17	<0.1	1.0	0.3	321	0.07
STD OREAS45E	Standard			2.7	798.7	19.3	48	0.3	481.7	64.2	617	26.43	17	2.5	12.9	17	<0.1	1.1	0.3	342	0.07
STD OREAS45E	Standard			2.3	772.1	16.6	45	0.3	466.0	56.3	553	23.30	16	2.1	11.4	16	<0.1	0.9	0.3	320	0.06
STD OXC145	Standard		207																		
STD OXC145	Standard		222																		
STD OXC145	Standard		211																		
STD OXC145	Standard		213																		
STD OXC145	Standard		203																		
STD OXH139	Standard		1278																		
STD OXH139	Standard		1267																		
STD OXH139	Standard		1272																		
STD OXH139	Standard		1261																		
STD OXH139	Standard		1300																		
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		2																		



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QUALITY CONTROL REPORT

VAN18003509.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS25A-4A	Standard	0.046	20.8	110	0.29	149	0.911	9.28	0.126	0.46	2.0	153.6	49	4.2	10.4	20.3	1.5	<1	13	38.6	<0.1
STD OREAS25A-4A	Standard	0.049	20.8	111	0.27	147	0.911	9.13	0.132	0.48	2.1	153.0	48	3.9	10.1	20.2	1.5	1	13	37.9	<0.1
STD OREAS25A-4A	Standard	0.049	22.6	113	0.30	157	0.945	9.02	0.140	0.52	1.9	151.4	49	3.8	10.0	19.6	1.5	<1	13	37.0	<0.1
STD OREAS25A-4A	Standard	0.049	19.8	117	0.35	146	0.996	9.22	0.136	0.49	2.1	158.2	45	4.0	9.7	19.8	1.5	1	12	38.2	<0.1
STD OREAS45E	Standard	0.035	11.3	1057	0.17	248	0.526	7.26	0.056	0.37	1.0	96.9	26	1.4	8.3	6.2	0.5	<1	97	7.6	<0.1
STD OREAS45E	Standard	0.032	11.3	1030	0.15	270	0.542	7.25	0.052	0.36	1.1	103.5	25	1.5	8.2	6.7	0.6	1	97	7.7	<0.1
STD OREAS45E	Standard	0.034	10.1	1045	0.14	255	0.529	7.13	0.051	0.34	1.0	100.7	24	1.2	8.0	6.6	0.6	<1	99	7.0	<0.1
STD OREAS45E	Standard	0.034	11.6	1043	0.14	243	0.559	7.24	0.055	0.33	1.1	108.4	27	1.3	8.4	6.9	0.6	<1	90	7.2	<0.1
STD OREAS45E	Standard	0.031	10.2	993	0.16	243	0.531	7.07	0.057	0.33	0.8	94.8	23	1.2	7.6	6.0	0.5	<1	89	6.5	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	62.1	4.3	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.9	4.4	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	60.4	4.3	0.10	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	58.5	4.2	0.06	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.0	2.9	0.07	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	23.2	3.2	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.4	3.2	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.2	3.1	0.09	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.2	2.7	0.08	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							



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QUALITY CONTROL REPORT

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	3	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	4	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	0.3	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	0.8	2.6	3.2	36	<0.1	1.0	4.0	637	2.09	3	1.2	2.7	214	<0.1	0.1	<0.1	37	1.57
ROCK-VAN	Prep Blank		<2	0.9	3.0	3.0	37	<0.1	0.8	4.4	669	2.13	2	1.3	2.7	223	<0.1	0.1	<0.1	38	1.63



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.039	12.7	3	0.50	839	0.207	6.98	3.644	1.70	0.3	52.1	24	0.8	15.7	5.8	0.4	1	7	3.4	<0.1	
ROCK-VAN	Prep Blank	0.043	12.2	3	0.51	865	0.210	7.20	3.768	1.75	0.3	54.7	25	0.9	16.2	5.7	0.4	<1	7	3.4	<0.1	



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QUALITY CONTROL REPORT

VAN18003509.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	0.008	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	35.5	1.7	0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	37.3	1.8	<0.05	<0.005	<1	<0.5	<0.5



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Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 04, 2018

Report Date: December 20, 2018

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CERTIFICATE OF ANALYSIS

VAN18003527.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 102

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	94	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	8	Sort, label and box pulps			VAN
FA350-Au	102	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	102	Environmental disposal charge-Fire assay lead waste			VAN
MA200	102	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 20, 2018

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CERTIFICATE OF ANALYSIS

VAN18003527.1

Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255820	Drill Core	7.96	3	2.3	101.5	7.9	86	<0.1	12.7	19.5	1125	5.18	<1	1.5	4.0	1006	<0.1	0.1	<0.1	189	2.94
N255821	Drill Core	8.02	2	7.9	99.7	10.2	88	<0.1	13.8	24.7	859	5.99	<1	1.3	3.7	417	0.2	0.2	0.2	189	2.93
N255822	Drill Core	7.54	3	2.9	68.7	7.1	57	<0.1	12.7	21.0	817	5.52	<1	1.8	4.4	816	<0.1	0.1	<0.1	170	2.20
N255823	Rock Pulp	0.06	598	317.4	3843.2	28.8	105	15.2	25.2	65.7	1383	4.69	1918	2.2	1.4	460	1.3	44.1	13.3	57	5.77
N255824	Drill Core	7.70	3	4.0	111.2	7.0	53	<0.1	11.3	19.9	893	5.10	<1	1.5	4.2	414	<0.1	0.3	0.2	165	2.91
N255825	Drill Core	7.88	3	3.3	108.5	6.9	66	<0.1	12.5	19.6	1155	5.27	<1	1.6	4.5	577	<0.1	0.2	<0.1	192	2.31
N255826	Drill Core	7.04	3	9.7	106.1	6.8	91	<0.1	13.1	23.8	1323	5.64	1	1.8	4.9	799	<0.1	0.2	<0.1	193	2.73
N255827	Drill Core	7.93	3	2.1	92.3	5.4	79	<0.1	13.0	21.6	1490	5.58	<1	1.7	4.5	1052	<0.1	0.2	<0.1	194	2.63
N255828	Drill Core	8.36	4	2.9	71.9	5.9	61	<0.1	11.7	19.5	1342	5.33	2	1.6	4.6	811	<0.1	0.2	0.1	197	2.47
N255829	Drill Core	7.36	3	17.5	73.0	8.9	52	<0.1	8.9	16.7	580	4.76	<1	2.6	6.2	173	0.1	0.2	0.1	131	1.48
N255830	Rock	2.09	<2	0.2	1.1	0.6	4	<0.1	0.7	0.5	140	0.11	2	0.2	<0.1	82	<0.1	<0.1	<0.1	1	33.78
N255831	Drill Core	7.29	3	4.4	80.2	8.3	48	<0.1	7.7	16.8	514	4.14	<1	2.7	7.4	175	<0.1	0.1	0.2	119	1.85
N255832	Drill Core	6.60	<2	10.2	64.7	9.4	55	<0.1	7.3	15.6	566	4.04	<1	2.6	7.3	114	0.1	0.2	0.2	111	1.88
N255833	Drill Core	7.62	2	5.5	86.1	16.9	130	<0.1	7.4	16.0	315	4.37	<1	2.6	6.9	70	0.9	0.1	0.8	98	1.35
N255834	Drill Core	7.96	2	4.1	82.9	9.1	85	<0.1	17.9	21.3	867	5.48	<1	2.2	5.8	145	0.2	<0.1	0.3	149	1.58
N255835	Drill Core	7.96	2	3.6	85.0	7.2	57	<0.1	21.7	22.0	1110	5.30	<1	1.9	5.0	171	<0.1	0.1	0.2	156	2.41
N255836	Rock Pulp	0.06	193	364.3	1878.5	25.2	60	12.4	14.8	10.0	727	3.59	13	1.1	2.1	416	0.7	32.2	1.8	84	2.80
N255837	Drill Core	7.96	2	3.1	109.0	7.0	69	<0.1	22.6	23.2	1124	5.11	<1	2.1	5.6	241	<0.1	0.2	<0.1	168	3.09
N255838	Drill Core	8.00	3	3.1	102.7	7.3	83	<0.1	22.3	23.3	1429	5.41	<1	2.2	5.5	190	<0.1	0.2	0.2	168	2.72
N255839	Drill Core	7.00	2	4.0	125.9	8.0	79	<0.1	21.6	24.7	1332	5.64	<1	2.4	5.6	184	<0.1	0.2	0.1	166	1.62
N255840	Drill Core	6.40	3	8.5	109.2	8.4	92	<0.1	16.6	19.5	1332	4.77	<1	2.6	6.4	199	0.1	0.2	<0.1	155	2.16
N255841	Drill Core	7.71	2	4.1	95.0	9.5	58	<0.1	6.5	14.3	697	4.42	<1	4.0	8.3	33	<0.1	0.3	<0.1	102	0.86
N255842	Drill Core	3.40	2	5.5	69.4	10.0	40	<0.1	6.9	14.4	472	4.24	1	4.0	8.9	51	<0.1	0.3	<0.1	100	1.68
N255844	Drill Core	7.54	6	2.7	56.7	7.4	57	<0.1	8.6	16.2	692	4.05	13	2.0	5.7	223	<0.1	0.5	<0.1	144	3.51
N255845	Drill Core	7.63	4	3.8	82.8	7.1	84	<0.1	13.1	22.9	1105	4.93	11	1.2	3.6	309	0.1	0.4	<0.1	182	3.53
N255846	Drill Core	8.07	2	1.6	65.4	5.4	79	<0.1	11.6	21.0	1103	5.19	8	1.3	3.1	402	0.1	0.3	<0.1	186	3.74
N255847	Drill Core	7.62	3	3.2	81.9	7.4	73	<0.1	11.1	20.0	1071	4.91	4	1.6	3.8	370	0.1	0.2	<0.1	177	2.95
N255848	Drill Core	7.70	3	4.2	73.7	8.3	101	<0.1	12.4	20.1	1169	5.15	2	1.9	4.4	288	0.2	0.2	<0.1	187	2.97
N255849	Rock Pulp	0.06	609	314.1	3797.7	26.8	106	15.6	23.9	70.1	1367	4.61	1828	2.1	1.4	412	1.0	41.3	13.0	57	5.66
N255850	Drill Core	7.80	7	4.3	91.3	7.4	105	<0.1	13.9	22.7	1291	5.55	<1	1.9	4.1	424	0.1	0.2	<0.1	185	2.82



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003527.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255820	Drill Core	0.107	13.5	20	2.23	40	0.421	8.05	2.106	1.50	0.3	67.7	33	1.4	23.3	6.4	0.4	1	23	8.0	4.6
N255821	Drill Core	0.110	12.3	16	2.29	23	0.406	8.04	1.936	1.70	0.3	73.9	30	2.3	21.6	5.1	0.4	<1	22	11.9	6.1
N255822	Drill Core	0.105	13.2	12	1.95	24	0.329	7.60	2.077	2.36	0.6	79.5	33	1.0	21.9	4.2	0.3	<1	21	7.9	5.5
N255823	Rock Pulp	0.063	15.9	30	0.74	352	0.140	5.79	1.653	1.71	4.0	20.2	23	2.8	8.5	1.7	<0.1	1	6	13.0	0.6
N255824	Drill Core	0.100	13.8	15	1.98	25	0.323	7.57	1.831	1.58	0.4	73.3	35	1.1	22.4	4.1	0.3	<1	21	11.2	5.0
N255825	Drill Core	0.111	15.0	14	2.24	24	0.405	8.29	2.264	2.13	0.4	83.9	35	0.9	24.3	4.9	0.3	1	23	7.6	5.4
N255826	Drill Core	0.113	15.3	18	2.22	32	0.481	8.08	1.931	1.87	0.4	66.9	37	1.6	25.1	7.5	0.5	<1	23	9.5	4.5
N255827	Drill Core	0.106	15.7	17	2.10	44	0.512	8.24	2.031	1.85	0.3	52.9	37	1.6	25.5	8.6	0.6	1	24	8.3	3.3
N255828	Drill Core	0.098	15.2	18	2.19	55	0.472	8.25	2.099	1.78	0.3	53.0	35	1.4	23.1	7.3	0.5	<1	23	8.5	3.1
N255829	Drill Core	0.093	16.0	10	1.57	37	0.283	7.66	2.019	3.23	0.5	99.7	41	1.8	25.2	4.9	0.3	1	18	10.2	4.7
N255830	Rock	0.007	1.4	2	1.94	17	0.006	0.10	0.043	0.04	<0.1	1.6	1	<0.1	2.3	0.2	<0.1	<1	<1	0.8	<0.1
N255831	Drill Core	0.085	20.0	9	1.45	43	0.265	7.68	2.319	2.55	0.4	125.1	46	1.3	28.6	4.3	0.3	1	17	7.8	4.9
N255832	Drill Core	0.084	19.5	8	1.56	37	0.241	7.42	1.849	3.04	0.6	121.6	47	2.1	30.6	4.6	0.3	1	16	7.8	4.4
N255833	Drill Core	0.088	18.5	9	1.00	35	0.131	7.73	0.970	3.35	0.3	127.2	42	2.4	21.6	2.2	0.1	1	15	6.2	4.7
N255834	Drill Core	0.094	16.5	37	1.90	24	0.236	7.72	1.454	2.91	0.2	103.2	39	1.4	24.6	2.9	0.2	<1	19	7.5	6.0
N255835	Drill Core	0.101	15.5	38	2.11	23	0.256	7.69	1.586	2.47	0.3	89.9	38	1.2	23.6	3.2	0.2	1	20	7.0	5.6
N255836	Rock Pulp	0.050	7.9	18	0.85	702	0.193	7.04	2.140	1.91	1.6	9.4	18	3.0	10.3	2.6	0.2	<1	10	8.6	0.3
N255837	Drill Core	0.099	17.6	46	2.18	33	0.389	7.78	2.391	1.76	0.5	93.2	40	1.1	28.1	5.8	0.4	<1	22	10.0	5.0
N255838	Drill Core	0.100	16.6	44	2.23	32	0.399	7.89	1.767	2.34	0.4	95.0	39	1.4	28.4	6.9	0.4	<1	22	7.4	4.2
N255839	Drill Core	0.096	16.6	40	2.20	25	0.381	8.06	1.982	2.49	0.4	86.8	41	1.3	28.0	6.3	0.4	<1	21	9.1	4.5
N255840	Drill Core	0.094	18.8	37	2.03	34	0.392	7.96	1.945	2.60	0.3	82.2	44	1.6	28.4	6.8	0.5	<1	20	9.7	3.4
N255841	Drill Core	0.080	21.0	8	1.75	31	0.329	7.50	0.140	3.34	0.4	150.5	51	2.4	31.6	8.6	0.6	1	14	11.3	3.3
N255842	Drill Core	0.079	22.0	8	1.08	26	0.370	7.42	0.302	3.45	0.5	145.9	51	1.9	31.6	10.1	0.7	<1	13	8.5	3.2
N255844	Drill Core	0.089	15.6	12	1.33	53	0.406	7.85	1.667	2.00	0.5	96.0	36	1.7	20.7	7.5	0.5	2	15	11.5	2.2
N255845	Drill Core	0.082	12.2	15	2.04	185	0.480	8.08	2.387	1.91	0.6	85.3	28	1.6	21.9	6.8	0.4	1	21	11.2	1.9
N255846	Drill Core	0.071	12.0	12	1.89	689	0.480	8.30	2.452	2.26	0.4	101.8	28	1.3	23.0	7.0	0.4	<1	22	9.2	0.7
N255847	Drill Core	0.082	12.8	14	1.95	204	0.481	7.95	2.073	2.31	0.5	82.5	30	1.7	23.2	7.6	0.5	2	21	13.7	1.4
N255848	Drill Core	0.091	15.9	15	2.29	85	0.479	8.20	2.449	2.75	0.5	74.8	37	1.7	26.6	7.1	0.5	2	22	11.3	2.1
N255849	Rock Pulp	0.065	15.7	31	0.73	365	0.139	5.75	1.632	1.65	3.8	20.1	24	3.1	9.0	1.7	<0.1	<1	6	10.8	0.6
N255850	Drill Core	0.090	15.6	17	2.23	74	0.486	8.37	2.398	2.37	0.5	74.9	37	1.9	26.5	7.5	0.5	<1	22	13.2	2.0



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CERTIFICATE OF ANALYSIS

VAN18003527.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255820	Drill Core	38.7	2.3	<0.05	0.009	15	1.2	0.6
N255821	Drill Core	51.0	2.1	0.08	0.022	27	0.8	0.6
N255822	Drill Core	55.2	2.4	<0.05	0.011	17	1.1	0.6
N255823	Rock Pulp	35.7	0.7	0.18	0.365	3	3.1	<0.5
N255824	Drill Core	45.3	2.2	0.05	<0.005	19	1.0	0.6
N255825	Drill Core	62.0	2.3	<0.05	<0.005	19	1.1	0.7
N255826	Drill Core	54.5	2.0	0.08	0.094	18	1.2	0.7
N255827	Drill Core	49.1	1.7	0.07	0.008	9	1.2	0.6
N255828	Drill Core	51.5	1.7	0.05	0.005	8	1.3	0.7
N255829	Drill Core	80.8	3.0	<0.05	0.010	25	1.1	0.7
N255830	Rock	1.5	<0.1	<0.05	<0.005	<1	3.5	<0.5
N255831	Drill Core	71.4	3.6	0.06	0.010	20	1.0	0.7
N255832	Drill Core	79.2	3.7	<0.05	0.009	20	0.9	0.8
N255833	Drill Core	104.1	3.6	0.10	0.014	19	0.7	1.3
N255834	Drill Core	87.9	2.9	0.08	0.012	21	0.6	1.0
N255835	Drill Core	71.1	2.8	0.08	0.013	20	0.9	0.8
N255836	Rock Pulp	35.7	0.6	0.09	0.374	<1	1.5	<0.5
N255837	Drill Core	50.0	2.7	0.06	<0.005	17	0.7	0.5
N255838	Drill Core	61.1	2.7	0.10	0.015	15	0.9	0.7
N255839	Drill Core	64.3	2.5	<0.05	0.014	14	0.5	0.6
N255840	Drill Core	66.7	2.4	0.07	0.106	13	0.5	0.7
N255841	Drill Core	104.7	4.6	0.08	0.021	11	0.6	1.0
N255842	Drill Core	116.3	4.5	<0.05	0.007	11	<0.5	1.1
N255844	Drill Core	58.4	3.1	0.07	0.027	5	0.9	0.7
N255845	Drill Core	47.1	2.3	0.14	0.013	3	1.6	<0.5
N255846	Drill Core	45.4	2.9	0.11	0.009	<1	0.9	<0.5
N255847	Drill Core	60.3	2.4	0.12	0.023	5	0.8	<0.5
N255848	Drill Core	69.4	2.4	0.06	0.043	8	0.9	0.6
N255849	Rock Pulp	34.9	0.8	0.15	0.354	5	3.7	<0.5
N255850	Drill Core	64.8	2.3	0.10	0.080	8	0.7	<0.5



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255851	Drill Core	7.89	3	3.0	109.2	7.2	99	<0.1	16.6	23.3	1572	5.50	1	1.8	4.2	455	0.2	0.2	<0.1	202	3.48
N255852	Drill Core	8.02	4	2.1	67.3	5.5	78	<0.1	9.9	20.6	1166	5.02	18	1.3	3.5	309	<0.1	0.4	<0.1	172	4.02
N255853	Drill Core	7.43	5	1.7	54.4	6.1	72	<0.1	10.1	20.7	1064	4.92	4	1.2	2.8	372	<0.1	0.2	<0.1	181	4.41
N255854	Drill Core	8.10	3	2.1	50.1	5.9	66	<0.1	8.7	18.3	1073	4.77	4	1.2	3.2	320	<0.1	0.3	<0.1	166	4.29
N255855	Rock	2.68	2	0.1	1.0	0.5	3	<0.1	0.8	0.6	115	0.10	<1	0.2	0.2	74	<0.1	<0.1	<0.1	1	32.36
N255856	Drill Core	7.77	2	2.1	49.6	5.3	70	<0.1	8.7	18.3	1097	4.75	8	1.1	3.1	358	<0.1	0.3	<0.1	164	4.30
N255857	Drill Core	7.79	2	2.2	54.6	4.8	67	<0.1	8.9	19.2	1055	4.67	2	1.4	3.2	374	<0.1	0.2	<0.1	166	3.48
N255858	Drill Core	8.55	2	2.0	51.6	5.6	68	<0.1	8.8	18.9	1065	4.76	1	1.4	3.1	399	<0.1	0.1	<0.1	168	3.81
N255859	Drill Core	7.85	2	2.3	50.2	5.8	71	<0.1	9.3	18.1	1064	4.74	4	1.5	3.3	412	0.2	0.2	<0.1	169	3.73
N255860	Rock Pulp	0.06	182	370.7	1882.4	26.7	58	12.3	13.6	9.3	718	3.39	13	1.0	2.1	411	0.6	32.8	1.9	79	2.58
N255861	Drill Core	7.49	4	2.4	57.5	5.7	69	<0.1	9.7	18.3	1055	4.68	23	1.4	3.7	266	0.1	0.4	<0.1	160	4.21
N255862	Drill Core	8.22	3	2.1	47.0	4.9	63	<0.1	9.0	17.7	999	4.72	9	1.3	3.1	344	0.2	0.3	<0.1	165	3.58
N255863	Drill Core	7.65	<2	1.7	46.0	5.2	63	<0.1	9.0	16.8	1099	4.67	2	1.6	3.5	336	0.2	0.2	<0.1	163	3.32
N255864	Drill Core	8.09	<2	3.0	51.2	5.2	73	<0.1	9.8	19.5	1145	4.81	4	1.4	3.3	361	<0.1	0.2	<0.1	166	3.22
N255865	Drill Core	3.70	<2	2.0	50.7	5.1	63	<0.1	8.3	17.5	1044	4.61	3	1.3	3.3	311	<0.1	0.2	<0.1	164	4.01
N255867	Drill Core	7.50	<2	2.5	53.7	4.7	67	<0.1	9.7	17.4	1096	4.88	6	1.3	2.9	343	<0.1	0.2	<0.1	176	3.93
N255868	Drill Core	7.43	<2	2.2	62.4	4.2	70	<0.1	8.6	18.7	1106	4.67	9	1.2	2.7	313	<0.1	0.3	<0.1	166	3.61
N255869	Drill Core	6.70	2	2.6	48.7	7.4	68	<0.1	9.1	18.4	1077	4.76	8	1.3	3.3	303	<0.1	0.3	<0.1	165	3.72
N255870	Drill Core	7.00	<2	2.4	52.8	5.3	71	<0.1	9.9	18.9	1098	4.85	5	1.5	3.3	356	<0.1	0.2	<0.1	169	3.82
N255871	Drill Core	6.63	2	2.7	47.2	5.2	69	<0.1	9.1	17.9	1098	4.71	15	1.2	3.3	308	<0.1	0.2	<0.1	163	4.17
N255872	Rock Pulp	0.06	639	330.6	3830.3	29.2	109	14.8	25.9	73.7	1437	4.63	2018	2.3	1.5	437	0.8	43.6	13.4	57	5.85
N255873	Drill Core	6.95	2	3.6	53.3	5.1	65	<0.1	9.3	18.5	1074	4.71	19	1.2	3.3	279	<0.1	0.3	<0.1	170	3.95
N255874	Drill Core	6.93	<2	2.4	51.4	5.1	66	<0.1	8.6	19.3	1059	4.73	2	1.2	2.8	328	0.1	0.3	<0.1	165	3.70
N255875	Drill Core	7.08	<2	1.8	48.1	5.2	69	<0.1	8.2	18.6	1053	4.74	3	1.1	3.1	344	0.2	0.2	<0.1	165	4.12
N255876	Drill Core	7.27	<2	1.5	49.3	4.6	68	<0.1	9.5	18.7	1081	4.70	1	1.4	3.2	345	0.1	0.2	<0.1	162	3.85
N255877	Drill Core	7.45	<2	1.9	54.0	5.0	69	<0.1	9.1	18.8	1119	4.88	1	1.3	3.2	385	0.1	0.1	<0.1	169	4.13
N255878	Drill Core	7.18	<2	2.4	49.2	5.9	67	<0.1	8.6	17.0	1086	4.88	2	1.5	3.3	404	<0.1	0.1	<0.1	167	3.95
N255879	Rock	2.44	<2	<0.1	1.0	0.5	3	<0.1	<0.1	0.5	102	0.10	<1	0.1	<0.1	70	<0.1	<0.1	<0.1	<1	32.75
N255880	Drill Core	6.81	<2	2.0	61.1	5.5	80	<0.1	9.9	19.7	1058	5.00	3	1.1	2.9	378	<0.1	0.3	<0.1	177	4.43
N255881	Drill Core	6.80	<2	1.6	58.1	5.0	70	<0.1	9.6	21.4	1161	5.17	3	1.0	2.4	370	0.1	0.4	<0.1	189	4.54



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Project: Pemberton

Report Date: December 20, 2018

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	1	0.1	0.1	1	0.1	0.1	1	1	0.1	0.1
N255851	Drill Core	0.088	16.2	21	2.49	638	0.506	8.50	2.685	1.80	0.5	62.0	37	2.1	25.5	7.6	0.5	<1	24	12.2	1.1
N255852	Drill Core	0.085	14.2	12	1.80	701	0.477	8.02	2.227	2.16	0.5	94.9	33	1.5	23.9	7.3	0.5	<1	22	13.3	0.9
N255853	Drill Core	0.068	10.6	11	1.78	634	0.447	8.06	2.409	1.82	0.4	103.0	25	1.2	20.8	5.9	0.4	1	21	9.9	0.4
N255854	Drill Core	0.073	13.4	11	1.74	562	0.460	7.81	2.159	1.66	0.5	114.6	29	0.9	23.0	6.5	0.5	<1	19	12.4	0.8
N255855	Rock	0.005	1.5	1	1.86	17	0.005	0.15	0.060	0.05	<0.1	3.0	1	0.2	2.4	0.3	<0.1	<1	<1	0.7	<0.1
N255856	Drill Core	0.070	12.7	11	1.71	643	0.445	7.65	2.262	1.73	0.5	111.5	28	1.0	21.2	6.3	0.4	<1	19	10.0	0.6
N255857	Drill Core	0.072	12.7	11	1.65	774	0.438	7.13	2.643	2.25	0.4	109.5	28	0.9	21.5	6.6	0.4	<1	19	10.2	0.2
N255858	Drill Core	0.065	11.3	10	1.61	694	0.433	7.32	2.554	1.74	0.4	107.6	26	1.1	20.6	6.6	0.4	2	19	7.9	<0.1
N255859	Drill Core	0.072	12.0	10	1.64	712	0.439	7.57	2.547	1.85	0.5	109.1	28	1.0	21.8	6.8	0.4	<1	19	9.5	0.3
N255860	Rock Pulp	0.051	8.0	18	0.83	721	0.192	6.65	2.162	1.82	1.7	9.7	18	3.0	11.1	2.4	0.2	<1	9	7.7	0.3
N255861	Drill Core	0.072	14.2	11	1.65	613	0.443	7.69	2.519	1.83	0.4	112.9	31	0.9	22.8	6.9	0.4	1	19	12.0	0.6
N255862	Drill Core	0.065	11.6	10	1.64	706	0.409	7.53	2.658	1.92	0.4	104.0	26	1.0	21.6	6.1	0.4	<1	19	10.9	0.2
N255863	Drill Core	0.066	14.0	11	1.67	760	0.412	7.49	2.633	1.93	0.5	108.3	31	0.8	21.8	6.5	0.4	<1	21	10.8	0.2
N255864	Drill Core	0.075	11.7	12	1.72	752	0.442	7.20	2.469	1.93	0.4	105.3	28	1.2	21.0	6.6	0.5	<1	19	11.4	0.5
N255865	Drill Core	0.070	12.3	10	1.64	575	0.423	7.44	2.513	1.59	0.4	111.3	29	0.9	21.3	6.2	0.4	<1	19	9.6	0.2
N255867	Drill Core	0.072	11.4	10	1.68	788	0.437	7.41	2.580	2.00	0.4	107.3	25	0.9	20.4	6.5	0.4	<1	19	9.6	0.3
N255868	Drill Core	0.070	10.6	11	1.66	770	0.428	7.19	2.900	1.83	0.3	89.6	24	1.2	20.1	6.4	0.4	<1	18	9.8	0.4
N255869	Drill Core	0.073	11.5	11	1.65	621	0.430	7.41	2.580	1.79	0.4	111.9	27	1.0	21.2	6.3	0.4	<1	18	9.8	0.4
N255870	Drill Core	0.072	11.8	10	1.67	765	0.441	7.68	2.645	2.22	0.4	112.7	28	0.9	21.6	6.5	0.5	<1	20	9.5	0.2
N255871	Drill Core	0.069	13.5	11	1.70	720	0.458	7.68	2.311	1.90	0.5	106.2	29	1.1	21.6	6.6	0.4	<1	20	12.3	0.6
N255872	Rock Pulp	0.065	16.0	32	0.75	362	0.147	5.70	1.672	1.70	3.7	20.7	24	3.2	8.6	1.7	<0.1	<1	6	11.9	0.6
N255873	Drill Core	0.074	12.4	11	1.64	680	0.461	7.58	2.507	1.87	0.6	99.4	29	1.0	22.9	6.9	0.4	<1	19	13.0	0.5
N255874	Drill Core	0.073	10.9	9	1.62	684	0.429	7.11	2.549	1.78	0.4	89.2	26	1.0	20.2	6.4	0.4	<1	19	10.8	0.2
N255875	Drill Core	0.072	11.2	10	1.59	627	0.442	7.45	2.579	1.52	0.3	89.4	26	0.9	21.2	7.0	0.4	<1	19	8.8	0.2
N255876	Drill Core	0.070	12.1	10	1.61	632	0.462	7.55	2.597	1.65	0.2	96.9	29	1.0	21.4	6.9	0.4	<1	20	8.5	0.3
N255877	Drill Core	0.071	11.5	11	1.69	640	0.452	7.52	2.524	1.76	0.4	84.9	27	0.9	22.0	6.9	0.4	<1	20	9.5	0.2
N255878	Drill Core	0.074	12.7	10	1.61	784	0.436	7.45	2.482	1.75	0.4	87.4	29	1.0	20.9	6.7	0.4	1	20	11.7	<0.1
N255879	Rock	0.007	1.3	1	1.46	17	0.005	0.08	0.030	0.02	<0.1	1.5	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.7	<0.1
N255880	Drill Core	0.074	11.3	10	1.68	525	0.453	7.91	2.607	1.46	0.4	88.6	26	0.9	21.1	6.3	0.4	<1	21	11.5	0.6
N255881	Drill Core	0.070	10.1	11	1.86	498	0.464	7.70	2.950	1.22	0.3	110.0	24	1.1	19.2	5.9	0.4	<1	20	12.3	0.2



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255851	Drill Core	56.9	1.9	0.12	0.032	6	1.0	<0.5
N255852	Drill Core	52.5	3.0	<0.05	0.014	4	0.7	<0.5
N255853	Drill Core	40.8	3.0	0.06	<0.005	<1	1.1	<0.5
N255854	Drill Core	47.8	3.3	0.12	<0.005	<1	1.0	<0.5
N255855	Rock	1.6	0.1	<0.05	<0.005	<1	6.2	<0.5
N255856	Drill Core	41.8	3.3	<0.05	<0.005	<1	0.9	<0.5
N255857	Drill Core	46.2	3.3	0.06	<0.005	<1	0.9	<0.5
N255858	Drill Core	34.4	3.1	0.05	<0.005	<1	0.6	<0.5
N255859	Drill Core	49.2	2.9	0.05	<0.005	<1	0.8	<0.5
N255860	Rock Pulp	35.0	0.6	0.09	0.388	<1	1.2	<0.5
N255861	Drill Core	49.6	3.2	0.05	0.006	2	<0.5	<0.5
N255862	Drill Core	55.3	2.8	0.07	<0.005	<1	<0.5	<0.5
N255863	Drill Core	57.6	3.2	<0.05	<0.005	<1	0.6	<0.5
N255864	Drill Core	48.3	3.3	0.10	<0.005	<1	0.7	<0.5
N255865	Drill Core	34.6	3.2	<0.05	<0.005	<1	0.7	<0.5
N255867	Drill Core	42.0	3.0	<0.05	<0.005	<1	0.8	<0.5
N255868	Drill Core	38.9	2.6	<0.05	<0.005	<1	0.7	<0.5
N255869	Drill Core	40.4	3.2	0.08	<0.005	<1	0.6	<0.5
N255870	Drill Core	53.6	3.6	0.07	<0.005	<1	1.0	<0.5
N255871	Drill Core	50.7	2.9	0.07	<0.005	<1	0.5	<0.5
N255872	Rock Pulp	35.0	0.7	0.11	0.392	3	3.8	<0.5
N255873	Drill Core	38.9	3.0	0.06	0.007	1	0.6	<0.5
N255874	Drill Core	33.1	2.8	<0.05	<0.005	<1	0.9	<0.5
N255875	Drill Core	29.6	2.6	<0.05	<0.005	<1	1.3	<0.5
N255876	Drill Core	36.8	2.9	<0.05	<0.005	<1	0.5	<0.5
N255877	Drill Core	35.0	2.6	0.08	0.008	<1	0.6	<0.5
N255878	Drill Core	37.9	2.6	0.06	<0.005	<1	0.6	<0.5
N255879	Rock	0.6	<0.1	<0.05	<0.005	<1	3.9	<0.5
N255880	Drill Core	25.3	2.7	0.09	0.007	<1	1.1	<0.5
N255881	Drill Core	17.1	3.1	0.08	<0.005	<1	0.8	<0.5



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255882	Drill Core	7.32	<2	1.9	58.2	5.1	72	<0.1	10.2	20.5	1145	5.05	11	1.0	2.5	419	<0.1	0.4	<0.1	182	4.69
N255883	Drill Core	7.49	2	2.1	56.0	5.5	72	<0.1	9.8	20.7	1155	5.09	2	1.0	2.6	449	0.2	0.1	<0.1	183	4.06
N255884	Drill Core	7.79	<2	1.7	58.8	5.3	69	<0.1	9.7	20.5	1164	5.10	2	1.0	2.6	425	<0.1	0.2	<0.1	182	4.32
N255885	Drill Core	3.69	2	2.0	53.9	5.0	70	<0.1	8.9	18.8	1134	4.89	4	1.1	2.8	392	<0.1	0.3	<0.1	174	4.18
N255887	Drill Core	6.84	<2	2.0	55.0	5.7	69	<0.1	9.4	19.8	1182	5.01	3	1.4	3.0	427	0.2	0.2	<0.1	177	3.88
N255888	Drill Core	7.31	<2	2.3	61.1	5.4	66	<0.1	10.2	21.1	1042	5.03	4	1.4	3.5	335	<0.1	0.3	<0.1	172	4.46
N255889	Drill Core	6.74	<2	2.6	49.3	4.4	61	<0.1	9.5	19.2	1092	4.88	3	1.3	3.0	368	<0.1	0.3	<0.1	168	4.47
N255890	Drill Core	5.47	2	2.6	50.1	4.2	69	<0.1	9.5	18.6	1084	4.83	3	1.5	3.4	368	<0.1	0.2	<0.1	162	3.81
N255891	Drill Core	3.76	2	2.3	59.8	4.6	74	<0.1	9.9	20.0	1043	4.84	2	1.4	3.2	463	<0.1	0.2	<0.1	172	3.94
N255892	Drill Core	3.48	2	2.5	58.3	5.1	74	<0.1	9.7	21.0	1095	4.98	2	1.2	3.4	400	0.1	0.4	<0.1	178	4.39
N255893	Rock Pulp	0.06	169	381.9	1914.1	26.2	58	13.2	15.2	10.0	747	3.65	14	1.2	2.1	450	0.6	34.6	2.0	86	2.73
N255894	Drill Core	3.60	2	2.0	57.3	4.8	73	<0.1	9.8	19.9	1153	5.26	3	1.4	3.0	478	0.1	0.6	<0.1	188	4.07
N255895	Drill Core	3.79	<2	1.8	61.6	7.0	78	<0.1	9.9	21.1	1146	5.23	4	1.3	2.9	452	<0.1	0.7	<0.1	194	4.08
N255896	Drill Core	3.73	<2	1.6	55.4	6.7	70	<0.1	8.9	19.5	1107	4.98	3	1.4	3.2	487	0.1	0.6	<0.1	178	3.69
N255897	Drill Core	3.99	2	1.7	52.3	11.0	86	<0.1	9.9	19.6	1128	4.97	6	1.3	3.2	350	0.1	1.0	<0.1	177	4.06
N255898	Drill Core	3.62	<2	2.1	53.9	4.9	65	<0.1	8.3	19.0	1065	4.92	3	1.4	3.6	424	<0.1	0.6	<0.1	177	3.97
N255899	Rock Pulp	0.06	554	338.0	3941.2	26.3	103	15.4	24.8	69.6	1420	4.72	1958	2.4	1.4	440	1.1	43.8	13.2	59	5.79
N255900	Drill Core	3.97	2	2.0	54.7	6.4	70	<0.1	9.2	19.1	1106	5.07	2	1.6	3.4	466	<0.1	0.1	<0.1	179	4.18
N255901	Drill Core	3.79	2	2.2	60.0	6.9	78	<0.1	9.8	22.5	1130	5.19	2	1.5	3.7	447	<0.1	0.3	<0.1	180	4.44
N255902	Drill Core	3.70	<2	2.3	54.4	5.6	71	<0.1	9.8	19.9	1081	5.07	2	1.4	3.5	400	0.1	0.4	<0.1	180	3.99
N255903	Drill Core	3.77	2	2.5	54.8	6.0	68	0.1	9.6	18.5	1103	5.07	2	1.5	3.6	455	<0.1	0.2	<0.1	180	4.16
N255904	Drill Core	3.79	2	2.3	54.5	5.8	74	<0.1	10.1	18.8	1103	5.00	2	1.6	3.3	462	<0.1	0.2	<0.1	175	3.97
N255905	Rock	1.90	2	0.2	3.7	0.4	5	<0.1	<0.1	0.5	128	0.10	<1	0.1	<0.1	81	<0.1	<0.1	<0.1	<1	32.62
N255906	Drill Core	3.76	2	2.6	54.8	5.4	72	<0.1	8.9	20.8	1105	5.11	1	1.5	3.6	459	<0.1	0.2	<0.1	182	4.20
N255907	Drill Core	3.50	<2	2.7	60.1	6.1	76	<0.1	10.1	20.2	1138	5.19	2	1.5	3.4	429	<0.1	0.2	<0.1	183	4.28
N255908	Drill Core	3.80	<2	2.1	61.4	5.8	79	<0.1	9.7	18.4	1151	5.14	2	1.5	3.4	410	0.1	0.3	<0.1	185	4.07
N255909	Drill Core	3.64	<2	2.2	56.3	5.6	70	<0.1	9.7	18.8	1136	5.07	1	1.5	3.3	352	<0.1	0.2	<0.1	179	4.23
N255910	Drill Core	1.84	3	8.2	335.3	8.3	84	0.2	10.1	20.9	1267	5.39	2	1.3	3.1	391	0.1	0.4	0.2	184	4.18
N255912	Drill Core	4.10	<2	1.6	61.6	5.2	73	0.1	9.9	22.2	1144	5.25	3	1.3	2.6	468	<0.1	0.3	<0.1	195	4.55
N255913	Drill Core	4.23	4	2.1	65.8	5.1	79	0.2	10.3	20.7	1203	5.61	2	1.4	3.1	511	<0.1	0.1	<0.1	208	4.68



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255882	Drill Core	0.068	11.3	10	1.82	595	0.454	7.86	2.584	1.43	0.3	105.2	24	1.0	20.6	5.6	0.4	<1	20	10.6	0.3	
N255883	Drill Core	0.064	9.6	11	1.80	682	0.458	7.51	2.458	1.57	0.4	104.7	22	0.9	19.3	6.0	0.4	<1	22	10.1	0.2	
N255884	Drill Core	0.071	10.2	11	1.83	649	0.458	7.76	2.542	1.48	0.3	101.9	23	0.9	19.8	6.0	0.4	<1	20	9.9	0.3	
N255885	Drill Core	0.065	9.6	11	1.70	517	0.436	7.31	2.573	1.43	0.3	97.5	23	1.1	18.6	5.9	0.4	<1	19	10.7	0.3	
N255887	Drill Core	0.075	11.0	11	1.80	717	0.458	7.66	2.719	1.63	0.3	86.7	25	1.1	19.9	6.1	0.4	<1	21	9.0	0.5	
N255888	Drill Core	0.079	14.2	11	1.62	538	0.485	7.88	2.567	1.15	0.5	76.2	32	1.2	23.3	7.1	0.4	<1	20	11.4	0.6	
N255889	Drill Core	0.070	12.4	10	1.69	637	0.444	7.60	2.435	1.59	0.3	79.2	26	1.0	20.5	6.6	0.4	1	20	10.3	0.5	
N255890	Drill Core	0.067	12.8	11	1.68	655	0.442	7.48	2.495	1.57	0.5	77.7	29	1.0	20.5	6.4	0.4	<1	20	10.7	0.2	
N255891	Drill Core	0.078	13.6	11	1.78	716	0.466	8.08	2.588	1.77	0.5	78.4	30	1.1	23.0	6.9	0.5	<1	21	8.9	0.1	
N255892	Drill Core	0.075	12.9	11	1.75	651	0.464	8.12	2.472	1.58	0.4	84.2	29	1.1	22.4	6.8	0.4	<1	19	10.5	0.4	
N255893	Rock Pulp	0.055	8.4	20	0.87	759	0.208	7.32	2.303	1.85	1.7	9.9	20	3.0	11.7	2.5	0.1	<1	10	8.6	0.3	
N255894	Drill Core	0.075	12.6	12	1.90	709	0.471	8.12	2.826	1.78	0.3	77.8	28	1.1	21.8	5.9	0.4	<1	22	11.1	0.1	
N255895	Drill Core	0.073	12.2	11	1.94	643	0.468	8.26	3.123	1.58	0.5	101.9	27	0.9	21.7	5.5	0.4	<1	22	12.7	0.2	
N255896	Drill Core	0.075	12.1	10	1.84	695	0.447	8.01	2.747	1.71	0.4	81.0	27	1.1	20.8	5.8	0.4	<1	22	14.0	0.6	
N255897	Drill Core	0.074	13.2	11	1.82	488	0.467	8.07	3.139	1.09	0.5	82.2	30	1.0	20.6	6.1	0.4	<1	21	10.9	0.5	
N255898	Drill Core	0.070	13.0	10	1.77	675	0.451	8.02	2.953	1.55	0.4	88.4	29	0.9	21.5	6.2	0.4	<1	21	12.0	0.3	
N255899	Rock Pulp	0.069	15.5	32	0.77	308	0.142	6.04	1.750	1.60	3.7	19.1	23	3.4	8.6	1.6	<0.1	<1	6	10.6	0.6	
N255900	Drill Core	0.082	13.2	12	1.77	704	0.464	7.98	2.725	1.80	0.5	103.6	32	1.1	24.4	6.5	0.4	1	21	9.7	<0.1	
N255901	Drill Core	0.074	13.3	11	1.79	730	0.463	8.25	2.854	1.71	0.4	96.2	31	1.1	23.1	6.7	0.4	<1	21	7.9	<0.1	
N255902	Drill Core	0.074	13.6	11	1.79	622	0.466	8.54	3.113	1.57	0.4	91.4	30	1.0	22.9	6.7	0.4	<1	21	9.4	0.2	
N255903	Drill Core	0.079	13.4	10	1.77	685	0.446	8.19	2.739	1.67	0.5	92.3	31	1.0	23.8	6.7	0.4	1	20	9.6	<0.1	
N255904	Drill Core	0.076	12.3	10	1.72	713	0.462	7.80	2.783	1.69	0.5	95.0	29	1.0	22.1	6.8	0.4	<1	22	8.1	0.2	
N255905	Rock	0.008	2.4	1	2.04	16	0.007	0.07	0.025	0.02	<0.1	1.4	1	<0.1	2.3	0.2	<0.1	<1	<1	0.9	<0.1	
N255906	Drill Core	0.080	14.1	11	1.81	704	0.464	8.39	2.777	1.76	0.5	105.4	32	1.0	23.4	7.0	0.4	<1	21	8.1	<0.1	
N255907	Drill Core	0.078	14.0	11	1.87	684	0.463	8.38	2.855	1.69	0.4	105.5	31	0.9	23.8	6.9	0.4	1	21	8.5	0.1	
N255908	Drill Core	0.074	13.9	11	1.80	721	0.458	8.22	2.933	1.77	0.4	86.6	33	1.1	22.4	6.3	0.4	<1	21	7.3	0.1	
N255909	Drill Core	0.079	12.4	12	1.81	636	0.445	8.11	2.707	1.61	0.5	61.2	29	0.9	22.4	6.7	0.4	1	20	8.6	0.2	
N255910	Drill Core	0.082	12.7	12	1.95	342	0.486	8.49	2.285	1.63	0.5	92.8	29	1.1	23.2	7.0	0.4	<1	21	10.4	1.2	
N255912	Drill Core	0.077	11.0	11	1.99	623	0.448	8.47	2.534	1.46	0.8	103.1	26	0.9	20.6	5.7	0.4	<1	22	7.4	<0.1	
N255913	Drill Core	0.077	12.5	11	2.09	654	0.477	8.71	2.864	1.65	0.8	109.9	27	0.9	22.2	6.1	0.4	1	24	9.7	<0.1	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255882	Drill Core	27.2	3.1	0.06	<0.005	<1	0.6	<0.5
N255883	Drill Core	25.9	3.1	<0.05	<0.005	2	<0.5	<0.5
N255884	Drill Core	25.1	3.2	0.05	<0.005	<1	1.4	<0.5
N255885	Drill Core	20.8	3.1	<0.05	<0.005	<1	1.8	<0.5
N255887	Drill Core	31.0	2.6	<0.05	<0.005	<1	0.6	<0.5
N255888	Drill Core	23.7	2.1	<0.05	0.007	<1	0.9	<0.5
N255889	Drill Core	30.8	2.4	0.06	<0.005	<1	0.6	<0.5
N255890	Drill Core	31.8	2.4	<0.05	<0.005	<1	<0.5	<0.5
N255891	Drill Core	46.9	2.2	0.05	0.011	2	1.0	<0.5
N255892	Drill Core	34.9	2.7	0.09	0.007	<1	1.0	<0.5
N255893	Rock Pulp	36.3	0.6	0.10	0.444	<1	1.1	<0.5
N255894	Drill Core	43.7	2.4	0.05	0.006	<1	0.7	<0.5
N255895	Drill Core	39.8	3.1	<0.05	<0.005	<1	1.2	<0.5
N255896	Drill Core	42.8	2.2	0.05	0.006	<1	<0.5	<0.5
N255897	Drill Core	23.2	2.6	<0.05	<0.005	2	0.7	<0.5
N255898	Drill Core	37.2	2.8	<0.05	0.006	<1	0.5	<0.5
N255899	Rock Pulp	35.1	0.6	0.22	0.335	4	3.6	<0.5
N255900	Drill Core	45.7	2.9	<0.05	<0.005	<1	0.9	<0.5
N255901	Drill Core	40.6	2.8	0.05	<0.005	<1	0.7	<0.5
N255902	Drill Core	39.0	2.6	<0.05	0.009	2	<0.5	<0.5
N255903	Drill Core	42.5	2.8	<0.05	<0.005	<1	<0.5	<0.5
N255904	Drill Core	35.5	2.8	<0.05	0.007	1	0.8	<0.5
N255905	Rock	0.5	<0.1	<0.05	<0.005	<1	14.2	<0.5
N255906	Drill Core	40.1	2.9	0.08	0.009	1	<0.5	<0.5
N255907	Drill Core	38.2	3.0	<0.05	0.006	<1	1.1	<0.5
N255908	Drill Core	43.6	2.6	0.05	0.010	<1	0.6	<0.5
N255909	Drill Core	31.1	2.2	<0.05	0.007	1	0.7	<0.5
N255910	Drill Core	33.7	2.7	0.18	<0.005	6	1.3	<0.5
N255912	Drill Core	27.2	3.0	0.06	<0.005	<1	0.6	<0.5
N255913	Drill Core	36.5	3.2	0.06	<0.005	<1	1.4	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255914	Drill Core	3.67	3	1.6	66.0	5.3	79	<0.1	10.9	22.9	1203	5.55	2	1.4	3.2	449	<0.1	0.2	<0.1	202	4.71
N255915	Drill Core	3.87	2	2.1	60.7	5.4	73	<0.1	10.8	20.8	1189	5.41	<1	1.5	3.4	456	0.2	0.3	<0.1	194	4.52
N255916	Rock Pulp	0.06	134	398.6	1984.3	28.0	62	14.7	15.2	10.0	740	3.78	14	1.2	2.2	438	0.7	34.3	2.1	91	2.76
N255917	Drill Core	4.15	<2	2.5	59.0	6.5	81	<0.1	11.2	21.2	1204	5.40	6	1.4	3.4	426	<0.1	0.6	<0.1	197	4.75
N255918	Drill Core	4.11	<2	2.0	62.1	5.8	75	<0.1	11.2	20.0	1184	5.17	4	1.2	2.9	430	0.2	0.5	<0.1	189	4.60
N255919	Drill Core	4.08	5	2.2	64.0	5.4	76	<0.1	10.3	21.3	1219	5.45	1	1.5	3.0	450	0.1	0.3	<0.1	198	4.47
N255920	Drill Core	3.33	2	2.0	61.2	5.0	73	<0.1	11.5	21.7	1201	5.50	2	1.4	3.2	452	<0.1	0.2	<0.1	201	4.73
N255715	Drill Core	4.00	2	4.4	132.4	18.3	57	<0.1	9.2	18.6	76	5.17	10	0.7	2.0	141	0.1	1.0	0.4	133	2.40
N255757	Drill Core	4.02	3	6.6	43.4	9.0	42	<0.1	13.3	21.1	510	5.76	2	1.7	4.3	40	0.2	0.2	0.2	147	2.63
N255787	Drill Core	4.12	4	2.3	92.6	16.6	128	<0.1	18.4	25.8	1354	6.08	10	1.1	3.2	451	0.2	0.5	<0.1	220	4.00
N255792	Drill Core	3.70	3	1.7	78.3	6.7	74	<0.1	13.8	22.8	993	4.85	3	1.4	3.4	376	<0.1	0.3	0.2	177	7.94
N255817	Drill Core	3.56	2	2.4	100.5	7.3	94	<0.1	14.8	23.1	1356	5.38	3	1.6	4.1	539	0.2	0.2	0.1	196	3.05



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255914	Drill Core	0.083	12.8	12	2.03	683	0.491	8.75	2.931	1.63	0.5	110.9	30	1.1	22.9	6.5	0.4	1	22	8.1	<0.1
N255915	Drill Core	0.085	14.2	13	1.96	713	0.476	8.52	2.671	1.62	0.4	125.9	31	1.1	23.7	6.7	0.4	<1	23	9.9	<0.1
N255916	Rock Pulp	0.057	8.6	20	0.88	767	0.208	7.20	2.346	1.96	1.8	10.0	19	3.2	11.8	2.8	0.2	2	9	9.0	0.3
N255917	Drill Core	0.083	13.1	13	1.98	695	0.506	8.65	2.700	1.48	0.5	120.0	30	1.0	23.5	6.8	0.4	<1	23	11.1	0.4
N255918	Drill Core	0.082	13.0	13	1.94	694	0.475	8.52	2.603	1.45	0.4	116.9	29	1.1	23.1	6.7	0.4	<1	21	9.3	0.6
N255919	Drill Core	0.080	12.7	15	2.04	675	0.494	8.44	2.766	1.78	0.4	120.7	27	1.0	22.4	6.8	0.4	<1	23	10.0	0.2
N255920	Drill Core	0.080	12.0	13	2.07	621	0.497	8.80	2.879	1.59	0.4	116.5	27	1.0	22.6	6.5	0.4	<1	22	9.0	0.1
N255715	Drill Core	0.057	7.1	9	0.77	19	0.087	8.12	0.519	1.99	0.1	42.7	19	2.0	8.3	0.8	<0.1	<1	18	2.1	7.8
N255757	Drill Core	0.098	12.5	12	1.19	23	0.142	7.59	1.506	1.86	0.5	80.2	33	3.8	19.5	2.2	0.2	<1	20	5.3	6.6
N255787	Drill Core	0.066	11.5	25	2.21	95	0.445	8.56	1.969	0.99	0.3	45.2	25	2.1	19.9	5.0	0.3	1	24	6.0	2.9
N255792	Drill Core	0.088	13.5	15	2.02	57	0.402	8.14	1.224	0.78	0.4	43.8	29	1.5	21.2	4.9	0.3	<1	20	5.1	3.4
N255817	Drill Core	0.104	14.7	21	2.39	39	0.475	8.32	2.542	1.61	0.3	56.0	36	1.6	25.8	7.2	0.4	1	22	10.4	3.8



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	Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N255914	Drill Core	36.7	3.0	<0.05	0.009	<1	0.7	<0.5
N255915	Drill Core	32.8	3.7	0.08	0.005	1	0.5	<0.5
N255916	Rock Pulp	39.9	0.5	0.09	0.395	<1	1.1	<0.5
N255917	Drill Core	24.5	3.5	0.07	<0.005	1	0.6	<0.5
N255918	Drill Core	25.1	3.5	<0.05	<0.005	1	1.6	<0.5
N255919	Drill Core	29.0	3.3	0.07	0.007	1	<0.5	<0.5
N255920	Drill Core	29.9	3.3	0.09	<0.005	<1	0.8	<0.5
N255715	Drill Core	52.4	1.1	0.13	0.006	18	4.4	1.4
N255757	Drill Core	56.3	2.3	<0.05	0.043	18	0.5	1.2
N255787	Drill Core	26.5	1.3	0.11	0.006	5	0.8	<0.5
N255792	Drill Core	25.2	1.4	0.07	<0.005	8	2.1	<0.5
N255817	Drill Core	43.4	1.7	0.10	0.008	10	1.0	0.5



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QUALITY CONTROL REPORT

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255829	Drill Core	7.36	3	17.5	73.0	8.9	52	<0.1	8.9	16.7	580	4.76	<1	2.6	6.2	173	0.1	0.2	0.1	131	1.48
REP N255829	QC	3																			
N255831	Drill Core	7.29	3	4.4	80.2	8.3	48	<0.1	7.7	16.8	514	4.14	<1	2.7	7.4	175	<0.1	0.1	0.2	119	1.85
REP N255831	QC	4.0		80.9	8.8	49	<0.1	7.6	15.7	512	4.17	<1	2.9	7.1	172	<0.1	0.2	0.1	118	1.83	
N255863	Drill Core	7.65	<2	1.7	46.0	5.2	63	<0.1	9.0	16.8	1099	4.67	2	1.6	3.5	336	0.2	0.2	<0.1	163	3.32
REP N255863	QC	<2																			
N255867	Drill Core	7.50	<2	2.5	53.7	4.7	67	<0.1	9.7	17.4	1096	4.88	6	1.3	2.9	343	<0.1	0.2	<0.1	176	3.93
REP N255867	QC	2.5		49.2	5.0	64	<0.1	9.0	17.7	1084	4.83	7	1.4	3.1	344	<0.1	0.2	<0.1	168	3.79	
N255900	Drill Core	3.97	2	2.0	54.7	6.4	70	<0.1	9.2	19.1	1106	5.07	2	1.6	3.4	466	<0.1	0.1	<0.1	179	4.18
REP N255900	QC	4																			
N255902	Drill Core	3.70	<2	2.3	54.4	5.6	71	<0.1	9.8	19.9	1081	5.07	2	1.4	3.5	400	0.1	0.4	<0.1	180	3.99
REP N255902	QC	2.0		54.2	5.5	72	<0.1	9.2	17.8	1073	5.03	2	1.5	3.7	404	0.1	0.5	<0.1	177	3.94	
REP N255914	QC	3																			
N255792	Drill Core	3.70	3	1.7	78.3	6.7	74	<0.1	13.8	22.8	993	4.85	3	1.4	3.4	376	<0.1	0.3	0.2	177	7.94
REP N255792	QC	4																			
Core Reject Duplicates																					
N255842	Drill Core	3.40	2	5.5	69.4	10.0	40	<0.1	6.9	14.4	472	4.24	1	4.0	8.9	51	<0.1	0.3	<0.1	100	1.68
DUP N255842	QC	2		5.6	75.3	10.4	40	<0.1	6.3	13.6	464	4.25	1	3.9	9.4	51	<0.1	0.2	<0.1	98	1.67
N255878	Drill Core	7.18	<2	2.4	49.2	5.9	67	<0.1	8.6	17.0	1086	4.88	2	1.5	3.3	404	<0.1	0.1	<0.1	167	3.95
DUP N255878	QC	<2		2.7	51.5	5.4	67	<0.1	9.3	17.8	1057	4.77	2	1.5	3.6	415	<0.1	<0.1	<0.1	163	3.91
N255914	Drill Core	3.67	3	1.6	66.0	5.3	79	<0.1	10.9	22.9	1203	5.55	2	1.4	3.2	449	<0.1	0.2	<0.1	202	4.71
DUP N255914	QC	4		2.1	63.3	5.0	73	<0.1	10.2	21.5	1183	5.46	2	1.5	3.2	459	0.2	0.2	<0.1	200	4.61
Reference Materials																					
STD OREAS25A-4A	Standard	2.0		31.6	23.9	41	<0.1	45.1	7.7	496	6.44	10	2.7	15.9	45	<0.1	0.6	0.3	155	0.27	
STD OREAS25A-4A	Standard	2.7		31.2	24.9	47	<0.1	45.6	7.8	502	6.73	11	2.8	15.6	46	<0.1	0.6	0.3	162	0.30	
STD OREAS25A-4A	Standard	2.5		33.7	25.4	44	<0.1	47.8	7.7	529	6.89	11	2.9	16.6	50	<0.1	0.6	0.3	169	0.31	
STD OREAS45E	Standard	2.3		779.5	18.8	45	0.3	456.2	62.5	580	24.69	16	2.5	13.8	16	<0.1	0.9	0.3	320	0.07	
STD OREAS45E	Standard	2.4		784.5	18.7	47	0.3	468.1	58.7	563	23.62	17	2.4	13.6	16	<0.1	1.1	0.3	321	0.06	



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Project: Pemberton

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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255829	Drill Core	0.093	16.0	10	1.57	37	0.283	7.66	2.019	3.23	0.5	99.7	41	1.8	25.2	4.9	0.3	1	18	10.2	4.7
REP N255829	QC																				
N255831	Drill Core	0.085	20.0	9	1.45	43	0.265	7.68	2.319	2.55	0.4	125.1	46	1.3	28.6	4.3	0.3	1	17	7.8	4.9
REP N255831	QC	0.090	19.3	10	1.47	33	0.262	7.51	2.319	2.57	0.3	126.1	45	1.4	28.5	4.3	0.3	2	16	8.4	4.9
N255863	Drill Core	0.066	14.0	11	1.67	760	0.412	7.49	2.633	1.93	0.5	108.3	31	0.8	21.8	6.5	0.4	<1	21	10.8	0.2
REP N255863	QC																				
N255867	Drill Core	0.072	11.4	10	1.68	788	0.437	7.41	2.580	2.00	0.4	107.3	25	0.9	20.4	6.5	0.4	<1	19	9.6	0.3
REP N255867	QC	0.074	12.0	11	1.68	772	0.442	7.41	2.561	1.96	0.3	100.4	27	0.8	21.7	6.4	0.4	<1	19	10.3	0.3
N255900	Drill Core	0.082	13.2	12	1.77	704	0.464	7.98	2.725	1.80	0.5	103.6	32	1.1	24.4	6.5	0.4	1	21	9.7	<0.1
REP N255900	QC																				
N255902	Drill Core	0.074	13.6	11	1.79	622	0.466	8.54	3.113	1.57	0.4	91.4	30	1.0	22.9	6.7	0.4	<1	21	9.4	0.2
REP N255902	QC	0.075	14.1	10	1.78	647	0.456	8.53	3.077	1.57	0.5	89.5	31	0.9	21.9	6.6	0.4	<1	20	9.4	0.2
REP N255914	QC																				
N255792	Drill Core	0.088	13.5	15	2.02	57	0.402	8.14	1.224	0.78	0.4	43.8	29	1.5	21.2	4.9	0.3	<1	20	5.1	3.4
REP N255792	QC																				
Core Reject Duplicates																					
N255842	Drill Core	0.079	22.0	8	1.08	26	0.370	7.42	0.302	3.45	0.5	145.9	51	1.9	31.6	10.1	0.7	<1	13	8.5	3.2
DUP N255842	QC	0.071	23.5	8	1.08	32	0.371	7.45	0.310	3.41	0.5	146.3	55	2.1	32.3	9.8	0.7	<1	14	9.0	3.2
N255878	Drill Core	0.074	12.7	10	1.61	784	0.436	7.45	2.482	1.75	0.4	87.4	29	1.0	20.9	6.7	0.4	1	20	11.7	<0.1
DUP N255878	QC	0.071	13.2	10	1.60	738	0.426	7.68	2.534	1.82	0.5	87.7	29	0.9	22.5	6.6	0.4	1	18	9.9	<0.1
N255914	Drill Core	0.083	12.8	12	2.03	683	0.491	8.75	2.931	1.63	0.5	110.9	30	1.1	22.9	6.5	0.4	1	22	8.1	<0.1
DUP N255914	QC	0.085	13.2	13	2.00	691	0.487	8.81	2.913	1.66	0.5	111.9	30	1.0	22.7	6.5	0.4	<1	22	8.8	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.051	22.4	103	0.32	143	0.871	8.99	0.111	0.48	1.8	143.5	48	3.6	9.7	18.5	1.3	<1	12	37.3	<0.1
STD OREAS25A-4A	Standard	0.050	22.2	112	0.34	147	0.989	9.28	0.118	0.47	1.7	147.5	50	4.1	10.3	19.1	1.4	<1	12	34.7	<0.1
STD OREAS25A-4A	Standard	0.055	23.3	109	0.35	153	0.957	9.59	0.124	0.50	2.0	160.6	53	3.8	10.9	20.2	1.4	1	13	39.8	<0.1
STD OREAS45E	Standard	0.035	11.4	974	0.16	255	0.524	6.98	0.051	0.34	1.0	96.5	25	1.4	8.0	6.5	0.5	1	91	6.8	<0.1
STD OREAS45E	Standard	0.036	11.5	962	0.16	256	0.552	6.85	0.052	0.34	1.0	96.5	25	1.3	7.8	6.2	0.5	<1	92	6.4	<0.1



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255829	Drill Core	80.8	3.0	<0.05	0.010	25	1.1	0.7
REP N255829	QC							
N255831	Drill Core	71.4	3.6	0.06	0.010	20	1.0	0.7
REP N255831	QC	73.6	3.5	0.05	0.009	19	0.9	0.6
N255863	Drill Core	57.6	3.2	<0.05	<0.005	<1	0.6	<0.5
REP N255863	QC							
N255867	Drill Core	42.0	3.0	<0.05	<0.005	<1	0.8	<0.5
REP N255867	QC	45.7	3.0	<0.05	<0.005	<1	0.6	<0.5
N255900	Drill Core	45.7	2.9	<0.05	<0.005	<1	0.9	<0.5
REP N255900	QC							
N255902	Drill Core	39.0	2.6	<0.05	0.009	2	<0.5	<0.5
REP N255902	QC	39.1	2.9	<0.05	0.006	<1	0.8	<0.5
REP N255914	QC							
N255792	Drill Core	25.2	1.4	0.07	<0.005	8	2.1	<0.5
REP N255792	QC							
Core Reject Duplicates								
N255842	Drill Core	116.3	4.5	<0.05	0.007	11	<0.5	1.1
DUP N255842	QC	114.0	4.2	0.07	0.015	12	0.6	1.1
N255878	Drill Core	37.9	2.6	0.06	<0.005	<1	0.6	<0.5
DUP N255878	QC	41.3	2.5	<0.05	<0.005	<1	0.8	<0.5
N255914	Drill Core	36.7	3.0	<0.05	0.009	<1	0.7	<0.5
DUP N255914	QC	36.9	3.3	<0.05	<0.005	<1	0.6	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	55.9	3.9	0.08	<0.005	<1	0.6	<0.5
STD OREAS25A-4A	Standard	57.9	4.1	0.09	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	61.2	4.4	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.0	3.1	0.07	0.007	3	0.6	<0.5
STD OREAS45E	Standard	20.2	2.8	0.14	<0.005	2	<0.5	<0.5



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
STD OREAS45E	Standard			2.4	798.8	19.6	48	0.3	473.3	60.0	560	24.79	18	2.6	14.1	17	<0.1	0.9	0.3	327	0.07	
STD OXC145	Standard		206																			
STD OXC145	Standard		211																			
STD OXC145	Standard		211																			
STD OXC145	Standard		202																			
STD OXC145	Standard		215																			
STD OXH139	Standard		1255																			
STD OXH139	Standard		1309																			
STD OXH139 Expected			1312																			
STD OXC145 Expected			212																			
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309	
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	
BLK	Blank		2																			
BLK	Blank		<2																			
BLK	Blank		2																			
BLK	Blank		2																			
BLK	Blank		3																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		3																			
BLK	Blank			<0.1	0.3	0.1	<1	<0.1	<0.1	<0.2	1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																						
ROCK-VAN	Prep Blank		<2	0.5	2.7	9.2	53	<0.1	1.0	3.8	571	2.02	4	1.1	2.8	195	<0.1	<0.1	<0.1	32	1.42	
ROCK-VAN	Prep Blank		<2	0.7	3.2	6.4	44	<0.1	0.8	4.1	590	2.04	3	1.1	2.8	199	<0.1	<0.1	<0.1	33	1.44	



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS45E	Standard	0.036	11.6	983	0.16	254	0.528	7.03	0.056	0.36	0.8	93.8	26	1.4	7.9	6.2	0.5	<1	93	7.5	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139 Expected																					
STD OXC145 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.042	13.2	3	0.40	826	0.189	6.85	3.168	1.84	0.3	47.8	24	0.7	14.3	4.9	0.4	1	6	2.7	<0.1
ROCK-VAN	Prep Blank	0.045	13.3	3	0.42	831	0.185	6.81	3.136	1.85	0.3	46.6	25	0.8	15.6	5.2	0.4	1	7	3.8	<0.1



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 20, 2018

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QUALITY CONTROL REPORT

VAN18003527.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS45E	Standard	20.9	2.8	0.10	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139 Expected								
STD OXC145 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	37.9	1.4	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	38.0	1.6	<0.05	<0.005	<1	<0.5	<0.5



BUREAU VERITAS MINERAL LABORATORIES
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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: December 04, 2018
Report Date: December 21, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18003528.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 60

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	55	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	5	Sort, label and box pulps			VAN
FA350-Au	59	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	60	Environmental disposal charge-Fire assay lead waste			VAN
MA200	60	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003528.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253401	Drill Core	6.60	4	1.7	78.4	8.7	90	<0.1	12.2	21.4	1587	5.45	41	1.0	2.2	212	0.2	2.5	0.3	191	3.08
N253402	Drill Core	7.19	7	1.6	74.7	8.1	77	<0.1	11.6	22.0	1597	5.27	39	1.1	2.9	246	<0.1	1.2	0.2	183	3.76
N253403	Drill Core	7.51	6	1.7	79.0	8.8	76	<0.1	12.1	21.0	1883	5.36	13	1.0	2.6	297	0.1	0.5	0.3	194	3.36
N253404	Drill Core	7.05	4	2.3	88.9	6.4	71	<0.1	11.7	20.5	1168	5.39	11	1.0	2.4	199	<0.1	1.2	0.4	172	2.32
N253405	Drill Core	7.61	4	1.8	80.4	6.5	73	<0.1	10.3	19.7	1959	5.25	12	0.9	2.3	309	<0.1	0.6	0.1	195	3.09
N253406	Rock Pulp	0.06	619	321.2	3859.4	27.1	104	14.6	24.8	68.7	1467	4.67	2020	2.1	1.3	440	0.8	39.9	13.3	55	5.93
N253407	Drill Core	7.11	7	2.0	88.1	6.3	76	<0.1	11.9	21.2	1830	5.45	12	1.0	2.5	329	0.1	0.5	0.1	191	3.48
N253408	Drill Core	8.25	4	1.9	68.5	6.2	78	<0.1	11.8	20.5	2483	5.30	11	0.8	2.4	350	<0.1	0.3	<0.1	200	3.27
N253409	Drill Core	6.33	4	1.9	60.4	8.4	71	<0.1	10.5	19.0	1346	5.28	10	0.9	2.3	139	0.1	0.8	0.3	184	1.90
N253410	Drill Core	7.04	6	2.4	69.2	6.3	81	<0.1	12.3	22.7	1619	5.61	6	0.9	2.2	182	<0.1	0.5	0.2	198	2.26
N253411	Drill Core	6.63	3	2.5	63.8	5.8	73	<0.1	12.5	21.2	1600	5.33	6	0.9	2.3	270	<0.1	0.3	0.2	189	3.09
N253412	Drill Core	6.30	4	2.7	84.3	7.0	86	<0.1	12.4	20.9	1739	5.52	9	0.9	2.1	169	0.2	0.4	0.4	197	2.30
N253413	Rock	2.12	2	<0.1	3.0	0.6	6	<0.1	0.3	0.6	116	0.11	3	0.1	<0.1	72	<0.1	<0.1	<0.1	1	33.17
N253414	Drill Core	7.24	4	2.9	93.8	5.2	81	<0.1	12.7	23.0	2299	5.52	13	1.0	2.4	227	0.1	0.4	0.4	201	2.96
N253415	Drill Core	7.16	5	3.0	83.4	6.0	81	<0.1	13.0	24.8	1819	5.82	13	1.0	2.3	256	0.2	0.7	0.2	201	2.68
N253416	Drill Core	6.71	4	3.0	78.3	3.9	83	<0.1	13.1	22.7	1890	5.56	8	0.8	2.0	321	<0.1	0.3	0.1	212	3.28
N253417	Drill Core	7.11	4	2.8	89.9	4.7	89	<0.1	12.7	23.0	1900	5.83	28	1.0	2.2	178	0.1	2.0	0.1	197	2.06
N253418	Drill Core	6.51	3	2.4	74.3	7.4	76	<0.1	12.5	22.1	1674	5.89	11	0.9	2.2	131	<0.1	0.8	0.3	190	1.58
N253419	Rock Pulp	0.06	209	377.7	1819.0	24.6	58	12.9	14.1	9.4	719	3.47	14	1.4	1.9	403	0.4	29.5	1.8	79	2.62
N253420	Drill Core	7.05	5	3.5	73.0	5.5	73	<0.1	13.5	23.1	1965	6.02	7	0.9	2.0	112	<0.1	0.8	0.2	206	1.64
N253421	Drill Core	6.97	4	2.7	66.4	10.9	65	<0.1	11.0	20.5	1042	5.54	5	0.8	1.9	128	0.1	0.4	0.3	159	2.36
N253422	Drill Core	7.10	2	2.2	48.4	12.9	48	<0.1	8.6	16.4	264	4.76	2	0.8	2.2	91	0.2	0.3	0.2	107	3.65
N253423	Drill Core	7.06	2	2.1	57.8	8.7	44	<0.1	6.7	17.3	473	5.09	3	0.8	2.2	91	0.1	0.2	0.2	125	1.46
N253424	Drill Core	3.14	3	2.0	45.3	10.4	84	<0.1	7.8	17.6	646	5.30	2	0.8	2.0	86	0.2	0.2	0.3	135	2.11
N253426	Drill Core	6.92	4	1.8	44.8	13.7	58	<0.1	5.9	14.5	230	4.38	5	1.0	2.4	169	0.2	0.2	0.3	113	3.37
N253427	Drill Core	7.11	<2	1.8	60.4	18.4	66	<0.1	6.5	18.6	82	4.32	9	0.9	2.1	167	0.2	0.4	0.3	130	2.33
N253428	Drill Core	7.15	4	1.8	48.3	12.6	80	<0.1	4.2	12.5	354	5.20	6	0.8	1.9	164	0.3	0.2	0.2	145	2.74
N253429	Drill Core	6.69	3	1.5	50.0	9.9	73	<0.1	5.0	13.3	1716	4.35	3	0.8	2.1	202	0.2	0.2	0.3	110	3.22
N253430	Drill Core	6.80	5	1.5	57.9	8.9	61	<0.1	6.1	16.9	1184	4.78	1	0.8	2.0	206	0.3	0.2	0.3	134	3.49
N253431	Drill Core	6.91	6	1.9	71.0	14.7	74	<0.1	8.0	17.4	2139	5.14	2	0.8	2.0	114	0.2	0.4	0.3	147	2.84



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003528.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253401	Drill Core	0.082	10.8	21	2.38	32	0.443	7.76	1.506	1.24	0.3	45.0	26	1.5	22.5	5.3	0.3	<1	23	6.5	4.6
N253402	Drill Core	0.078	12.5	19	2.10	32	0.447	7.98	1.521	1.20	0.3	55.9	30	1.7	23.3	6.4	0.4	1	23	8.7	4.2
N253403	Drill Core	0.082	12.2	20	2.43	41	0.459	8.32	2.177	1.03	0.3	52.6	28	2.1	24.2	5.9	0.3	1	25	8.1	4.1
N253404	Drill Core	0.073	8.9	15	2.29	26	0.343	7.36	1.603	1.53	0.2	48.8	23	1.7	20.9	4.3	0.3	<1	22	6.9	5.8
N253405	Drill Core	0.081	10.8	20	2.43	49	0.444	8.14	2.337	1.05	0.2	47.0	26	1.3	21.8	5.2	0.3	<1	23	7.4	3.6
N253406	Rock Pulp	0.066	14.6	31	0.76	487	0.137	5.80	1.692	1.59	3.8	20.3	22	2.7	8.4	1.6	<0.1	1	5	11.2	0.6
N253407	Drill Core	0.076	11.6	19	2.35	90	0.407	8.07	2.286	0.88	0.2	49.0	27	1.3	22.1	4.9	0.3	<1	22	7.7	3.6
N253408	Drill Core	0.082	11.2	21	2.50	59	0.439	8.28	2.425	0.87	0.2	48.6	26	1.4	22.8	5.1	0.3	1	24	8.7	3.2
N253409	Drill Core	0.082	9.0	14	2.64	21	0.316	7.17	0.858	1.43	0.2	44.2	22	1.4	18.2	3.7	0.2	2	20	9.2	5.6
N253410	Drill Core	0.083	8.8	19	2.76	24	0.351	7.52	1.180	1.02	0.2	46.4	22	1.0	20.7	3.6	0.2	2	23	8.1	5.6
N253411	Drill Core	0.078	10.3	19	2.53	29	0.343	7.92	1.689	0.70	0.2	49.6	24	1.1	20.9	3.7	0.2	<1	24	8.3	5.5
N253412	Drill Core	0.076	8.7	17	2.58	21	0.359	7.24	0.898	1.25	0.3	44.1	22	1.7	20.5	3.7	0.2	<1	24	9.2	5.8
N253413	Rock	0.008	1.1	1	2.23	21	0.006	0.08	0.030	0.02	<0.1	1.5	<1	0.1	1.9	0.2	<0.1	<1	<1	0.9	<0.1
N253414	Drill Core	0.086	10.1	20	2.68	27	0.369	8.51	1.418	1.07	0.3	57.6	25	1.2	22.0	4.2	0.3	1	25	10.5	5.7
N253415	Drill Core	0.084	9.2	18	2.61	19	0.345	8.14	1.582	0.92	0.3	55.5	24	1.1	20.1	3.7	0.2	1	23	10.9	6.2
N253416	Drill Core	0.081	8.4	21	2.19	20	0.381	8.16	2.013	0.42	0.3	53.6	22	0.9	19.8	3.9	0.2	1	23	8.9	5.1
N253417	Drill Core	0.087	9.7	16	2.79	17	0.290	7.29	0.883	0.89	0.3	57.9	25	1.0	19.7	3.2	0.2	<1	24	12.1	6.3
N253418	Drill Core	0.082	9.3	15	2.92	15	0.279	7.92	0.536	0.92	0.2	52.7	23	1.4	17.0	2.8	0.2	1	24	14.5	6.3
N253419	Rock Pulp	0.048	7.0	18	0.81	678	0.189	6.54	2.168	1.73	1.4	9.2	16	2.7	10.2	2.5	0.2	<1	9	8.4	0.3
N253420	Drill Core	0.090	9.7	19	3.15	22	0.368	7.52	0.404	0.83	0.3	45.9	24	1.3	18.2	3.7	0.2	1	23	15.1	5.6
N253421	Drill Core	0.077	8.6	13	2.22	16	0.210	7.40	0.757	0.77	0.2	41.1	22	1.4	14.0	2.1	0.1	1	22	15.8	7.0
N253422	Drill Core	0.075	8.7	9	1.18	17	0.141	7.70	0.594	1.28	0.2	47.2	20	1.2	10.2	1.9	0.1	<1	18	7.0	8.2
N253423	Drill Core	0.082	9.2	6	1.98	14	0.138	7.88	0.753	0.92	0.1	47.7	23	0.4	10.6	1.6	0.1	<1	19	10.2	6.8
N253424	Drill Core	0.074	7.6	8	2.15	15	0.148	7.73	0.534	0.83	0.2	44.9	19	0.9	7.7	1.9	0.1	1	20	10.8	7.5
N253426	Drill Core	0.077	9.7	6	1.16	21	0.150	8.14	0.551	1.08	0.1	62.4	24	4.1	9.8	2.1	0.1	<1	17	13.0	7.3
N253427	Drill Core	0.068	7.6	8	0.48	19	0.151	8.27	0.681	1.98	0.2	41.5	19	3.3	10.3	2.0	0.1	<1	22	4.0	6.7
N253428	Drill Core	0.070	6.1	7	0.98	15	0.184	7.52	0.889	1.44	0.3	37.4	15	1.7	7.9	2.5	0.2	1	19	5.2	8.1
N253429	Drill Core	0.067	8.1	6	1.63	19	0.177	7.39	1.931	0.89	0.2	54.1	21	1.0	9.1	2.7	0.2	1	17	7.8	7.4
N253430	Drill Core	0.062	7.7	7	1.73	18	0.198	7.28	1.741	0.84	0.2	60.6	20	1.1	9.9	2.9	0.2	<1	18	9.2	8.0
N253431	Drill Core	0.068	7.2	7	1.80	19	0.177	7.43	1.322	1.03	0.2	56.2	18	1.1	10.5	2.5	0.2	<1	18	13.0	8.0



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003528.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253401	Drill Core	30.0	1.3	0.12	0.008	11	1.0	0.6
N253402	Drill Core	30.5	1.6	0.15	0.013	10	2.1	<0.5
N253403	Drill Core	23.6	1.5	0.15	0.019	12	1.8	<0.5
N253404	Drill Core	36.8	1.5	0.12	0.021	14	1.1	0.5
N253405	Drill Core	19.2	1.3	0.07	0.016	7	1.1	<0.5
N253406	Rock Pulp	36.5	0.6	0.15	0.342	3	2.7	<0.5
N253407	Drill Core	15.6	1.4	0.08	0.022	8	1.5	<0.5
N253408	Drill Core	15.9	1.4	0.14	0.022	9	1.3	<0.5
N253409	Drill Core	32.3	1.3	0.19	0.019	14	1.7	0.7
N253410	Drill Core	20.8	1.3	0.14	0.026	11	1.3	<0.5
N253411	Drill Core	13.6	1.6	0.15	0.016	12	1.3	<0.5
N253412	Drill Core	30.8	1.3	0.16	0.032	14	1.2	0.5
N253413	Rock	0.7	<0.1	<0.05	<0.005	<1	5.6	<0.5
N253414	Drill Core	24.3	1.6	0.15	0.020	13	1.6	0.5
N253415	Drill Core	17.5	1.5	0.13	0.024	15	1.4	<0.5
N253416	Drill Core	6.6	1.6	0.21	0.022	10	1.6	<0.5
N253417	Drill Core	18.5	1.7	0.17	0.021	15	2.0	<0.5
N253418	Drill Core	19.9	1.5	0.16	0.025	12	1.5	0.6
N253419	Rock Pulp	33.5	0.5	0.06	0.338	<1	1.5	<0.5
N253420	Drill Core	17.8	1.3	0.15	0.022	11	1.7	0.7
N253421	Drill Core	16.2	1.1	0.07	0.012	14	0.9	0.7
N253422	Drill Core	32.9	1.3	0.13	0.013	14	<0.5	0.9
N253423	Drill Core	20.7	1.2	0.10	0.006	14	<0.5	0.6
N253424	Drill Core	17.4	1.4	0.12	<0.005	18	<0.5	0.7
N253426	Drill Core	22.9	1.6	0.12	0.006	12	<0.5	1.3
N253427	Drill Core	53.9	1.1	0.10	<0.005	10	<0.5	2.1
N253428	Drill Core	35.5	1.1	0.10	0.017	13	<0.5	1.0
N253429	Drill Core	17.5	1.5	0.10	<0.005	15	0.6	0.6
N253430	Drill Core	15.6	1.7	0.07	<0.005	19	0.6	0.6
N253431	Drill Core	23.2	1.6	0.10	<0.005	17	<0.5	0.7



Bureau Veritas Commodities Canada Ltd.

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15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 21, 2018

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CERTIFICATE OF ANALYSIS

VAN18003528.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253432	Rock Pulp	0.06	I.S.	328.6	3780.1	26.4	103	14.5	25.1	67.3	1409	4.64	1952	2.1	1.2	433	0.8	39.4	12.9	55	5.80
N253433	Drill Core	7.34	3	3.0	65.2	15.0	123	<0.1	9.4	17.1	711	5.70	7	0.9	1.5	67	0.4	0.5	0.3	164	0.55
N253434	Drill Core	7.21	2	3.3	43.3	28.4	103	<0.1	7.2	15.5	608	5.85	4	0.8	1.6	87	0.3	0.3	0.3	120	0.43
N253435	Drill Core	3.43	3	2.0	73.9	36.5	157	<0.1	10.0	17.7	637	6.03	11	0.8	1.7	114	0.7	0.5	0.5	94	0.58
N253437	Drill Core	7.03	3	3.0	52.6	17.9	152	<0.1	6.5	13.1	750	5.14	6	1.2	2.7	82	0.8	0.3	0.4	118	0.57
N253438	Drill Core	7.27	<2	2.0	47.9	13.8	83	<0.1	10.3	24.5	255	6.26	2	0.4	0.8	87	0.2	0.2	0.2	200	0.44
N253439	Drill Core	6.80	2	2.4	38.7	11.4	87	<0.1	7.1	21.4	677	6.66	<1	0.4	0.7	68	0.4	0.2	0.2	165	0.36
N253440	Drill Core	7.23	3	1.8	70.1	17.7	75	<0.1	6.9	15.9	2459	5.10	3	1.0	2.4	94	0.4	0.3	0.5	141	0.54
N253441	Drill Core	8.00	4	2.6	38.9	11.0	65	<0.1	6.7	16.0	1272	5.05	2	1.0	2.6	130	0.2	0.3	0.3	128	0.70
N253442	Rock Pulp	0.06	191	379.6	1898.4	22.2	55	12.5	14.5	9.2	729	3.57	14	0.8	1.8	416	0.5	31.0	1.6	81	2.72
N253443	Drill Core	6.56	6	2.6	87.7	9.4	69	<0.1	7.9	17.7	1322	6.03	6	0.7	1.6	133	0.1	0.5	0.3	187	0.62
N253444	Drill Core	7.79	3	2.9	82.5	21.3	104	<0.1	7.7	12.8	1170	6.53	6	0.4	0.8	66	0.4	0.5	0.4	217	0.49
N253445	Drill Core	7.68	2	2.6	84.9	34.4	129	<0.1	10.1	18.5	1244	6.09	13	0.6	1.6	127	0.9	0.6	0.5	164	1.62
N253446	Drill Core	6.95	2	3.7	52.3	40.7	141	<0.1	8.2	16.2	357	5.45	4	0.3	0.6	262	0.7	0.3	0.5	145	2.85
N253447	Drill Core	6.27	3	5.8	25.0	23.7	76	<0.1	7.9	15.2	92	5.51	<1	0.5	1.6	242	0.4	0.2	0.3	107	3.99
N253448	Rock	2.22	<2	<0.1	1.9	0.6	4	<0.1	0.6	0.3	116	0.10	1	<0.1	<0.1	77	<0.1	<0.1	<0.1	1	32.90
N253449	Drill Core	6.90	2	1.7	31.5	10.4	58	<0.1	6.2	14.6	116	5.05	1	0.7	2.0	392	0.3	0.2	0.2	93	4.40
N253450	Drill Core	7.42	<2	2.4	28.3	18.1	95	<0.1	6.1	15.2	232	4.70	<1	0.8	2.1	312	0.4	0.9	0.2	76	4.37
N253451	Drill Core	7.36	2	3.9	20.6	13.2	61	<0.1	8.0	17.7	300	4.81	<1	0.7	1.9	266	0.3	0.3	0.3	46	4.63
N253452	Drill Core	7.08	3	4.0	21.6	9.3	48	<0.1	8.8	16.1	482	4.50	<1	0.7	1.9	291	0.2	0.3	0.3	51	4.82
N253453	Drill Core	6.52	4	2.7	49.3	12.7	72	<0.1	9.6	17.7	593	4.43	4	0.7	2.1	226	0.3	0.6	0.4	107	3.46
N253454	Drill Core	2.97	4	1.7	49.8	11.6	68	<0.1	8.2	15.8	684	4.64	2	0.7	2.0	180	0.4	0.8	0.3	126	2.67
N253456	Drill Core	6.86	3	2.9	49.3	12.0	44	<0.1	8.8	15.7	494	4.37	4	0.7	2.0	210	0.3	0.7	0.4	107	3.90
N253457	Drill Core	6.98	5	2.8	77.9	8.7	59	<0.1	9.4	18.1	904	4.78	16	0.7	2.1	210	0.3	0.4	0.7	138	3.11
N253458	Drill Core	7.13	5	2.6	45.1	11.1	63	<0.1	4.7	13.9	1221	4.27	5	1.0	2.5	275	0.2	0.5	0.3	136	2.74
N253459	Drill Core	7.02	5	4.0	30.8	4.5	33	<0.1	5.0	14.2	797	4.31	2	1.1	2.7	189	0.2	0.3	0.4	134	3.41
N253460	Rock Pulp	0.06	634	320.2	3782.4	25.9	104	14.5	25.7	66.6	1438	4.60	1887	2.0	1.3	430	0.7	38.3	13.0	55	5.81
N253461	Drill Core	7.14	3	4.3	63.8	8.5	71	<0.1	5.0	15.8	536	4.05	8	1.3	3.1	147	0.2	1.6	0.3	115	3.47
N253462	Drill Core	6.79	6	8.3	106.2	8.2	50	<0.1	5.2	14.2	1298	5.03	22	1.1	2.9	305	0.1	1.5	0.3	134	2.87
N253463	Drill Core	7.58	3	6.1	63.4	20.5	96	<0.1	8.2	14.3	1031	3.95	2	1.6	3.7	232	0.5	0.3	0.3	116	3.21



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253432	Rock Pulp	0.060	13.6	33	0.73	336	0.133	5.73	1.686	1.68	3.4	19.9	22	2.9	8.5	1.7	0.1	<1	6	13.0	0.6
N253433	Drill Core	0.080	4.8	10	1.28	12	0.121	7.29	0.583	2.34	0.2	44.7	14	1.6	11.9	1.7	0.1	<1	19	8.9	6.9
N253434	Drill Core	0.084	5.4	6	0.82	21	0.105	8.09	1.275	1.68	0.1	44.5	16	2.6	11.8	1.6	<0.1	<1	15	6.3	6.8
N253435	Drill Core	0.088	5.7	6	0.88	14	0.082	8.33	2.220	1.64	<0.1	56.9	17	1.7	12.1	1.2	0.1	<1	18	8.0	7.1
N253437	Drill Core	0.091	8.5	6	0.80	20	0.123	8.21	2.556	1.56	0.1	83.2	23	1.4	16.0	2.1	0.1	1	20	6.4	6.0
N253438	Drill Core	0.076	4.3	8	1.33	13	0.116	8.81	3.366	1.62	0.1	22.9	13	1.4	14.0	1.0	<0.1	1	27	10.6	7.5
N253439	Drill Core	0.086	3.3	5	1.43	15	0.117	8.26	2.663	1.68	0.2	24.1	11	1.0	12.8	1.2	<0.1	<1	24	10.4	7.9
N253440	Drill Core	0.089	9.6	4	1.88	19	0.161	7.59	2.076	0.84	0.2	56.6	24	0.7	12.6	2.4	0.1	<1	20	12.2	6.0
N253441	Drill Core	0.078	10.5	5	1.75	19	0.172	7.60	2.466	0.87	0.2	51.7	26	0.9	10.5	2.3	0.1	1	18	9.8	5.8
N253442	Rock Pulp	0.052	7.4	17	0.84	701	0.183	6.75	2.203	1.94	1.4	9.7	17	2.9	10.5	2.5	0.2	1	9	8.1	0.3
N253443	Drill Core	0.091	8.8	10	1.25	15	0.220	7.73	2.569	1.68	0.2	35.7	24	1.1	11.3	2.4	0.2	<1	20	6.5	6.7
N253444	Drill Core	0.097	3.8	16	0.72	12	0.144	8.32	2.031	3.06	0.2	16.0	12	1.8	8.5	1.1	<0.1	<1	25	3.7	7.9
N253445	Drill Core	0.083	7.2	15	0.40	13	0.123	8.03	1.858	2.56	0.1	26.6	20	1.8	12.4	1.5	0.1	<1	21	2.6	8.3
N253446	Drill Core	0.083	3.3	11	0.33	25	0.088	8.28	2.018	2.62	0.1	13.6	10	1.4	7.6	0.7	<0.1	<1	22	2.0	8.6
N253447	Drill Core	0.086	7.1	7	0.65	20	0.070	7.65	2.089	1.52	<0.1	34.3	18	2.4	11.8	0.8	<0.1	<1	16	6.2	9.4
N253448	Rock	0.006	1.3	2	1.67	16	0.006	0.07	0.026	0.02	<0.1	1.5	<1	<0.1	2.1	0.2	<0.1	<1	<1	0.6	<0.1
N253449	Drill Core	0.070	7.6	6	0.24	20	0.074	7.18	1.235	1.38	<0.1	54.2	19	1.5	10.7	1.0	<0.1	<1	14	3.2	9.2
N253450	Drill Core	0.073	8.8	6	0.72	23	0.085	7.41	2.081	1.58	<0.1	55.4	22	1.0	13.7	1.1	<0.1	<1	15	6.5	8.7
N253451	Drill Core	0.062	8.8	7	0.92	19	0.074	6.76	1.148	1.40	0.1	51.2	22	1.9	11.6	0.9	<0.1	<1	16	8.8	9.1
N253452	Drill Core	0.064	7.7	7	1.39	15	0.084	7.03	1.564	1.24	0.1	49.9	20	1.3	13.1	0.9	<0.1	<1	16	10.5	9.0
N253453	Drill Core	0.071	8.2	11	1.78	18	0.133	7.35	1.815	0.89	0.1	48.1	21	1.0	10.5	1.5	<0.1	<1	17	12.9	7.7
N253454	Drill Core	0.068	8.1	10	1.84	17	0.140	7.43	1.661	1.10	0.2	47.6	20	0.9	8.1	1.4	0.1	<1	20	11.8	7.3
N253456	Drill Core	0.065	8.1	8	1.39	23	0.132	7.12	1.329	1.19	0.2	40.9	20	1.6	10.0	1.3	<0.1	<1	17	10.8	8.0
N253457	Drill Core	0.065	8.5	11	1.87	20	0.191	7.14	1.669	1.13	0.3	43.0	21	1.5	10.7	1.9	0.1	<1	20	11.2	7.4
N253458	Drill Core	0.061	9.6	5	1.62	28	0.225	6.88	2.390	1.34	0.3	60.6	24	0.8	15.5	3.2	0.2	2	17	6.9	6.4
N253459	Drill Core	0.067	11.1	6	1.52	25	0.235	7.05	1.594	1.26	0.3	64.5	26	1.0	11.6	3.6	0.2	1	17	8.9	6.8
N253460	Rock Pulp	0.058	13.5	34	0.74	212	0.134	5.64	1.681	1.59	6.5	19.7	21	2.9	8.5	1.6	<0.1	<1	5	13.2	0.6
N253461	Drill Core	0.063	11.5	5	1.61	112	0.177	7.23	0.453	1.45	0.4	63.8	26	0.9	11.3	2.5	0.2	<1	18	10.0	7.3
N253462	Drill Core	0.073	13.5	6	1.37	28	0.275	7.69	2.829	1.25	0.4	49.5	31	1.1	19.2	3.4	0.2	<1	17	13.0	5.6
N253463	Drill Core	0.062	10.7	12	1.61	23	0.232	7.24	2.024	1.47	0.4	92.9	25	1.2	18.7	3.9	0.3	<1	16	11.5	5.6



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253432	Rock Pulp	36.9	0.8	0.19	0.352	3	3.3	<0.5
N253433	Drill Core	60.3	1.3	0.09	0.016	16	<0.5	1.8
N253434	Drill Core	45.4	1.3	0.10	0.016	12	<0.5	1.7
N253435	Drill Core	47.6	1.5	0.13	0.013	20	<0.5	1.5
N253437	Drill Core	42.4	2.1	0.07	0.038	15	<0.5	1.4
N253438	Drill Core	46.2	0.6	<0.05	0.016	16	<0.5	1.2
N253439	Drill Core	44.4	0.7	0.07	0.008	16	<0.5	1.0
N253440	Drill Core	20.9	1.5	0.10	<0.005	16	0.9	0.6
N253441	Drill Core	21.3	1.5	0.07	<0.005	13	0.7	0.7
N253442	Rock Pulp	34.3	0.6	0.14	0.328	<1	1.4	<0.5
N253443	Drill Core	43.7	1.0	0.11	0.009	17	0.9	1.6
N253444	Drill Core	75.3	0.5	0.08	0.010	17	<0.5	1.7
N253445	Drill Core	72.1	0.8	0.13	0.026	15	<0.5	1.5
N253446	Drill Core	70.6	0.4	0.10	0.034	15	<0.5	2.3
N253447	Drill Core	45.2	1.0	0.09	0.019	15	<0.5	2.1
N253448	Rock	0.3	<0.1	<0.05	<0.005	<1	6.2	<0.5
N253449	Drill Core	40.7	1.6	<0.05	0.017	16	<0.5	1.4
N253450	Drill Core	52.4	1.6	0.06	0.032	16	<0.5	1.5
N253451	Drill Core	42.7	1.4	0.07	0.017	18	<0.5	1.0
N253452	Drill Core	33.7	1.4	<0.05	0.013	16	<0.5	1.1
N253453	Drill Core	25.7	1.3	0.07	0.011	25	0.6	0.9
N253454	Drill Core	25.5	1.3	<0.05	0.011	23	<0.5	1.0
N253456	Drill Core	32.1	1.3	0.06	0.011	21	<0.5	1.1
N253457	Drill Core	32.9	1.2	0.08	0.008	14	<0.5	1.0
N253458	Drill Core	33.8	1.8	0.08	0.008	13	0.5	0.8
N253459	Drill Core	34.6	1.9	0.06	0.043	14	<0.5	1.0
N253460	Rock Pulp	35.5	0.7	0.15	0.325	5	2.5	<0.5
N253461	Drill Core	44.8	2.0	0.07	0.016	20	0.7	1.1
N253462	Drill Core	47.3	1.4	<0.05	0.036	11	1.5	0.7
N253463	Drill Core	45.5	2.5	<0.05	0.021	9	0.7	0.7



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QUALITY CONTROL REPORT

VAN18003528.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N253408	Drill Core	8.25	4	1.9	68.5	6.2	78	<0.1	11.8	20.5	2483	5.30	11	0.8	2.4	350	<0.1	0.3	<0.1	200	3.27
REP N253408	QC	4																			
N253431	Drill Core	6.91	6	1.9	71.0	14.7	74	<0.1	8.0	17.4	2139	5.14	2	0.8	2.0	114	0.2	0.4	0.3	147	2.84
REP N253431	QC	4																			
N253432	Rock Pulp	0.06	I.S.	328.6	3780.1	26.4	103	14.5	25.1	67.3	1409	4.64	1952	2.1	1.2	433	0.8	39.4	12.9	55	5.80
REP N253432	QC	318.4 3595.1 26.6 101 15.0 24.5 65.2 1400 4.55 1892 2.1 1.2 435 0.8 38.3 12.4 53 5.79																			
N253441	Drill Core	8.00	4	2.6	38.9	11.0	65	<0.1	6.7	16.0	1272	5.05	2	1.0	2.6	130	0.2	0.3	0.3	128	0.70
REP N253441	QC	5																			
N253462	Drill Core	6.79	6	8.3	106.2	8.2	50	<0.1	5.2	14.2	1298	5.03	22	1.1	2.9	305	0.1	1.5	0.3	134	2.87
REP N253462	QC	7.7 108.4 8.0 55 <0.1 5.1 13.6 1258 5.06 21 1.1 3.0 326 0.1 1.4 0.3 132 2.86																			
Core Reject Duplicates																					
N253411	Drill Core	6.63	3	2.5	63.8	5.8	73	<0.1	12.5	21.2	1600	5.33	6	0.9	2.3	270	<0.1	0.3	0.2	189	3.09
DUP N253411	QC	3 2.4 63.2 6.0 74 <0.1 12.3 22.4 1625 5.60 6 0.9 2.2 277 <0.1 0.3 0.2 191 3.14																			
N253447	Drill Core	6.27	3	5.8	25.0	23.7	76	<0.1	7.9	15.2	92	5.51	<1	0.5	1.6	242	0.4	0.2	0.3	107	3.99
DUP N253447	QC	3 6.0 24.8 24.9 72 <0.1 7.8 16.1 97 5.48 <1 0.5 1.5 252 0.3 0.1 0.3 105 4.12																			
Reference Materials																					
STD OREAS25A-4A	Standard	2.3 33.3 23.1 38 <0.1 44.7 7.4 497 6.42 10 2.7 14.2 45 <0.1 0.6 0.4 149 0.28																			
STD OREAS25A-4A	Standard	2.4 33.0 25.2 45 <0.1 45.3 7.7 503 6.58 11 2.8 15.5 45 <0.1 0.8 0.3 156 0.29																			
STD OREAS45E	Standard	2.2 766.8 18.4 45 0.3 482.6 57.9 579 24.38 17 2.5 13.4 17 <0.1 1.0 0.2 320 0.07																			
STD OREAS45E	Standard	2.2 756.8 18.2 46 0.3 462.3 57.4 553 23.05 17 2.5 12.7 16 <0.1 0.9 0.3 311 0.07																			
STD OXC145	Standard	213																			
STD OXC145	Standard	219																			
STD OXC145	Standard	210																			
STD OXH139	Standard	1283																			
STD OXH139	Standard	1274																			
STD OXH139 Expected		1312																			
STD OXC145 Expected		212																			
STD OREAS25A-4A Expected		2.55 33.9 25.2 44.4 45.8 8.2 470 6.6 9.94 2.94 15.8 48.5 0.67 0.35 157 0.309																			



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: December 21, 2018

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QUALITY CONTROL REPORT

VAN18003528.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N253408	Drill Core	0.082	11.2	21	2.50	59	0.439	8.28	2.425	0.87	0.2	48.6	26	1.4	22.8	5.1	0.3	1	24	8.7	3.2
REP N253408	QC																				
N253431	Drill Core	0.068	7.2	7	1.80	19	0.177	7.43	1.322	1.03	0.2	56.2	18	1.1	10.5	2.5	0.2	<1	18	13.0	8.0
REP N253431	QC																				
N253432	Rock Pulp	0.060	13.6	33	0.73	336	0.133	5.73	1.686	1.68	3.4	19.9	22	2.9	8.5	1.7	0.1	<1	6	13.0	0.6
REP N253432	QC	0.057	13.3	34	0.72	334	0.129	5.48	1.631	1.60	4.0	19.0	21	2.9	8.3	1.6	<0.1	<1	6	11.7	0.6
N253441	Drill Core	0.078	10.5	5	1.75	19	0.172	7.60	2.466	0.87	0.2	51.7	26	0.9	10.5	2.3	0.1	1	18	9.8	5.8
REP N253441	QC																				
N253462	Drill Core	0.073	13.5	6	1.37	28	0.275	7.69	2.829	1.25	0.4	49.5	31	1.1	19.2	3.4	0.2	<1	17	13.0	5.6
REP N253462	QC	0.080	14.5	6	1.39	38	0.272	7.93	2.744	1.27	0.4	49.0	32	1.1	20.7	3.3	0.2	<1	17	12.9	5.6
Core Reject Duplicates																					
N253411	Drill Core	0.078	10.3	19	2.53	29	0.343	7.92	1.689	0.70	0.2	49.6	24	1.1	20.9	3.7	0.2	<1	24	8.3	5.5
DUP N253411	QC	0.084	9.5	19	2.53	20	0.331	8.10	1.658	0.68	0.2	49.9	23	1.1	20.5	3.5	0.2	2	22	8.6	5.9
N253447	Drill Core	0.086	7.1	7	0.65	20	0.070	7.65	2.089	1.52	<0.1	34.3	18	2.4	11.8	0.8	<0.1	<1	16	6.2	9.4
DUP N253447	QC	0.088	7.1	7	0.65	18	0.076	7.50	1.996	1.55	<0.1	36.6	19	2.2	12.0	0.9	<0.1	<1	15	6.9	9.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.049	20.3	117	0.29	145	0.925	8.76	0.127	0.46	1.7	148.1	46	3.8	9.9	19.4	1.3	<1	12	37.9	<0.1
STD OREAS25A-4A	Standard	0.047	20.5	116	0.29	144	0.971	9.14	0.133	0.47	1.8	143.8	44	4.8	9.9	19.0	1.4	1	13	43.1	<0.1
STD OREAS45E	Standard	0.035	10.5	1040	0.15	255	0.493	7.00	0.052	0.35	1.0	96.7	24	1.3	7.8	6.3	0.6	<1	95	8.3	<0.1
STD OREAS45E	Standard	0.031	10.2	1000	0.14	245	0.483	6.76	0.051	0.33	0.9	90.6	22	1.2	7.7	6.2	0.5	<1	92	7.4	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139 Expected																					
STD OXC145 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047



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Report Date: December 21, 2018

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QUALITY CONTROL REPORT

VAN18003528.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253408	Drill Core	15.9	1.4	0.14	0.022	9	1.3	<0.5
REP N253408	QC							
N253431	Drill Core	23.2	1.6	0.10	<0.005	17	<0.5	0.7
REP N253431	QC							
N253432	Rock Pulp	36.9	0.8	0.19	0.352	3	3.3	<0.5
REP N253432	QC	36.0	0.6	0.22	0.345	3	3.1	<0.5
N253441	Drill Core	21.3	1.5	0.07	<0.005	13	0.7	0.7
REP N253441	QC							
N253462	Drill Core	47.3	1.4	<0.05	0.036	11	1.5	0.7
REP N253462	QC	50.9	1.5	<0.05	0.039	11	1.4	0.7
Core Reject Duplicates								
N253411	Drill Core	13.6	1.6	0.15	0.016	12	1.3	<0.5
DUP N253411	QC	12.3	1.4	0.12	0.012	12	1.3	<0.5
N253447	Drill Core	45.2	1.0	0.09	0.019	15	<0.5	2.1
DUP N253447	QC	43.8	1.0	0.09	0.027	16	<0.5	2.2
Reference Materials								
STD OREAS25A-4A	Standard	61.4	4.0	0.06	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.3	4.0	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.1	3.0	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.7	2.8	0.09	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139 Expected								
STD OXC145 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35



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QUALITY CONTROL REPORT

VAN18003528.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	
BLK	Blank		2																			
BLK	Blank		2																			
BLK	Blank		<2																			
BLK	Blank		2																			
BLK	Blank		2																			
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																						
ROCK-VAN	Prep Blank		2	0.9	112.4	6.9	37	<0.1	21.8	6.1	692	2.30	2	1.2	2.7	201	<0.1	0.2	<0.1	37	1.56	
ROCK-VAN	Prep Blank		<2	0.9	71.7	4.5	37	<0.1	18.1	5.4	679	2.30	2	1.0	2.5	208	<0.1	0.1	<0.1	37	1.60	



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QUALITY CONTROL REPORT

VAN18003528.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.044	12.4	5	0.50	766	0.220	6.84	3.577	1.64	0.3	55.8	24	0.8	16.4	5.7	0.4	<1	7	4.4	<0.1	
ROCK-VAN	Prep Blank	0.042	11.2	7	0.53	744	0.214	6.69	3.477	1.50	0.3	49.3	24	0.9	15.4	5.2	0.3	1	7	3.6	<0.1	



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QUALITY CONTROL REPORT

VAN18003528.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	35.1	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	31.5	1.6	<0.05	<0.005	<1	<0.5	<0.5



BUREAU VERITAS MINERAL LABORATORIES
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Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: December 10, 2018
Report Date: January 17, 2019
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CERTIFICATE OF ANALYSIS

VAN18003633.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 193

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	179	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	14	Sort, label and box pulps			VAN
FA350-Au	191	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	193	Environmental disposal charge-Fire assay lead waste			VAN
MA200	193	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date: January 17, 2019

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CERTIFICATE OF ANALYSIS

VAN18003633.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253464	Drill Core	7.32	4	15.8	36.3	7.9	59	<0.1	8.6	15.7	1075	4.28	3	1.4	3.5	241	0.1	0.2	0.5	131	3.49
N253465	Drill Core	6.92	3	3.3	49.1	6.7	54	0.2	6.1	15.0	1144	4.16	1	1.5	3.8	277	<0.1	0.2	0.4	140	3.13
N253466	Rock	2.25	<2	<0.1	1.9	0.5	3	<0.1	0.2	0.3	131	0.11	<1	0.2	<0.1	84	<0.1	<0.1	<0.1	1	33.84
N253467	Drill Core	7.34	5	43.8	111.2	11.2	90	<0.1	7.7	16.4	1604	4.45	<1	1.1	2.7	274	0.4	0.3	0.3	137	3.10
N253468	Drill Core	7.24	4	50.8	236.2	14.3	101	<0.1	10.4	19.1	818	4.46	<1	0.6	1.1	249	0.8	1.1	0.6	163	3.16
N253469	Drill Core	6.96	8	28.9	122.8	18.8	172	<0.1	10.3	18.8	1246	5.16	3	0.6	1.2	278	1.8	0.5	0.5	191	2.99
N253470	Drill Core	6.77	9	21.1	101.0	16.5	102	<0.1	10.0	18.1	1630	5.62	16	0.9	2.1	199	0.8	0.5	0.5	183	3.45
N253471	Drill Core	6.61	6	17.6	76.0	16.8	151	0.1	10.7	19.9	1145	5.98	<1	1.0	2.2	123	1.1	1.7	0.6	172	1.97
N253472	Rock Pulp	0.06	188	377.8	1858.7	25.5	54	12.7	14.0	9.2	766	3.47	12	1.1	1.8	436	0.3	33.4	2.1	84	2.61
N253473	Drill Core	7.34	3	12.7	78.4	24.1	160	0.1	7.8	13.0	428	5.18	<1	1.1	2.6	62	0.8	1.8	0.4	135	0.42
N253474	Drill Core	8.14	3	9.1	176.1	39.3	150	0.2	17.5	32.2	510	6.54	2	0.5	1.2	51	0.7	0.6	0.6	172	0.41
N253475	Drill Core	7.01	2	9.7	199.2	21.7	143	0.3	14.8	29.5	895	6.28	2	0.5	0.9	45	0.5	2.4	0.3	190	0.47
N253476	Drill Core	6.98	2	9.6	147.2	24.5	132	0.3	5.9	11.8	1002	5.59	<1	1.1	2.8	46	0.7	3.8	0.3	121	0.40
N253477	Drill Core	3.63	3	15.6	65.8	20.0	79	0.3	7.5	8.4	640	3.95	<1	0.7	1.4	45	0.3	2.4	0.2	87	0.29
N253479	Drill Core	7.39	3	65.2	90.5	18.6	85	0.2	23.6	18.5	711	5.79	2	0.2	0.3	70	0.3	3.6	0.2	134	0.28
N253480	Drill Core	7.39	2	53.2	107.5	16.8	79	0.1	21.3	18.9	932	6.37	3	0.5	1.1	63	0.5	4.0	0.2	152	0.29
N253481	Drill Core	7.26	<2	11.4	92.4	20.5	116	0.1	16.5	13.5	748	5.26	14	0.3	0.7	124	0.4	4.6	0.4	116	0.40
N253482	Drill Core	7.39	2	33.1	106.1	23.1	102	0.1	12.4	13.0	1059	4.07	18	0.8	2.0	195	0.4	6.1	0.2	196	0.86
N253483	Drill Core	7.14	3	16.8	73.4	17.5	62	0.1	9.8	15.3	734	4.72	2	0.9	1.9	105	0.2	3.4	0.2	176	0.43
N253484	Rock Pulp	0.06	633	338.2	3893.1	27.4	106	15.2	25.1	67.5	1404	4.65	1934	2.2	1.4	475	1.0	42.6	14.5	59	5.63
N253485	Drill Core	6.95	<2	6.4	48.5	20.7	86	<0.1	6.7	11.9	572	3.46	<1	0.6	1.0	101	0.4	1.7	0.2	137	0.26
N253486	Drill Core	7.15	3	7.6	50.6	22.5	90	0.1	9.1	13.0	659	4.33	<1	0.8	1.6	99	0.4	0.9	0.3	146	0.31
N253487	Drill Core	7.25	3	70.7	48.3	22.4	116	0.1	7.0	18.0	597	4.44	<1	1.1	2.0	94	0.8	1.5	0.3	135	0.35
N253488	Drill Core	6.88	5	14.4	105.9	14.9	87	<0.1	11.4	28.5	707	5.68	<1	0.9	1.4	420	0.4	0.5	0.7	139	0.92
N253489	Drill Core	7.21	6	5.6	83.8	14.2	118	<0.1	10.5	26.2	1905	6.88	<1	0.7	1.1	211	0.2	0.4	0.3	188	0.85
N253490	Rock	2.71	<2	<0.1	1.0	0.4	2	<0.1	0.6	<0.2	122	0.09	<1	0.1	<0.1	85	<0.1	<0.1	<0.1	1	34.25
N253491	Drill Core	7.09	4	2.8	73.2	16.8	99	<0.1	8.2	17.2	1128	3.73	<1	0.7	2.1	215	0.2	0.3	0.2	196	1.09
N253492	Drill Core	7.57	4	10.9	52.4	16.5	86	<0.1	8.9	18.9	1094	3.76	<1	0.8	2.3	319	0.2	0.2	0.3	242	1.31
N253493	Drill Core	7.59	6	3.0	59.8	11.6	77	<0.1	9.7	21.0	1313	6.12	<1	1.1	2.5	250	0.3	0.2	0.4	250	0.96
N253494	Drill Core	7.22	5	3.9	46.2	10.9	78	<0.1	10.3	12.8	1076	4.72	<1	1.7	3.9	253	0.5	0.2	0.4	185	0.94



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Project: Pemberton

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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253464	Drill Core	0.064	8.8	12	1.60	33	0.274	7.36	1.694	1.62	0.5	102.9	21	1.2	17.8	4.6	0.3	<1	15	9.1	5.5
N253465	Drill Core	0.071	10.5	9	1.49	31	0.294	7.66	2.090	1.35	1.6	105.1	27	1.5	18.7	4.6	0.3	<1	15	9.4	4.1
N253466	Rock	0.007	1.6	1	1.74	16	0.005	0.10	0.046	0.03	<0.1	2.0	1	<0.1	2.5	0.3	<0.1	<1	<1	0.9	<0.1
N253467	Drill Core	0.067	8.6	10	1.82	24	0.286	7.35	2.449	1.15	1.6	86.9	21	1.3	17.1	4.0	0.3	<1	14	11.3	5.6
N253468	Drill Core	0.095	4.4	14	1.55	22	0.264	7.13	2.599	1.61	3.7	34.5	13	2.7	11.6	2.9	0.2	1	28	12.1	7.4
N253469	Drill Core	0.076	8.2	14	2.07	57	0.334	7.57	4.101	1.02	2.3	30.9	21	1.9	13.1	3.2	0.2	<1	19	11.3	6.1
N253470	Drill Core	0.072	11.3	14	2.09	44	0.331	7.65	3.436	0.83	1.6	42.3	26	1.7	18.3	3.7	0.3	<1	17	11.6	5.2
N253471	Drill Core	0.075	9.4	13	1.90	17	0.259	9.42	2.068	1.73	1.2	46.8	23	1.6	15.7	2.2	0.2	<1	19	14.1	6.2
N253472	Rock Pulp	0.049	7.1	17	0.81	697	0.193	6.86	2.269	1.78	1.5	9.3	17	2.8	10.0	2.6	0.2	<1	8	8.7	0.3
N253473	Drill Core	0.085	10.0	8	1.44	23	0.150	8.71	0.774	2.76	0.6	41.0	24	2.2	8.7	2.1	0.1	<1	17	14.0	5.9
N253474	Drill Core	0.115	6.5	13	2.04	17	0.142	8.40	0.863	1.99	0.5	21.5	18	1.9	7.5	1.4	0.1	<1	21	27.0	7.6
N253475	Drill Core	0.096	5.4	11	2.93	19	0.191	7.69	1.620	2.18	0.4	21.6	15	2.5	12.6	1.6	<0.1	<1	24	28.0	7.3
N253476	Drill Core	0.075	12.6	6	1.87	20	0.168	6.81	1.091	1.88	0.4	57.3	31	1.9	13.7	2.7	0.1	<1	16	17.4	6.3
N253477	Drill Core	0.068	5.5	11	1.13	29	0.209	4.74	0.873	1.44	0.8	40.4	13	2.1	10.1	2.3	0.1	<1	11	13.5	4.3
N253479	Drill Core	0.083	0.9	36	1.28	35	0.162	7.22	2.067	2.64	0.7	10.0	3	1.8	4.8	0.8	<0.1	<1	27	13.9	6.9
N253480	Drill Core	0.078	2.7	24	1.54	25	0.179	7.31	3.104	2.47	0.7	24.7	8	2.0	8.9	1.6	<0.1	<1	26	13.8	7.7
N253481	Drill Core	0.087	4.0	22	1.53	14	0.155	9.25	4.496	1.92	0.4	18.2	11	2.0	7.0	1.1	<0.1	<1	21	13.6	6.2
N253482	Drill Core	0.114	8.5	11	2.16	27	0.279	11.11	3.463	1.79	1.0	55.5	21	2.1	12.7	3.7	0.2	<1	14	19.3	4.6
N253483	Drill Core	0.100	11.6	8	1.86	23	0.207	8.10	2.557	1.92	0.5	53.1	27	2.0	14.0	3.1	0.2	<1	13	16.0	5.4
N253484	Rock Pulp	0.060	15.5	35	0.75	422	0.144	5.98	1.739	1.62	3.9	20.7	24	3.1	8.6	1.7	<0.1	<1	6	11.5	0.6
N253485	Drill Core	0.081	5.0	17	1.29	22	0.172	7.05	4.556	2.31	0.3	38.8	13	1.5	6.1	1.8	0.1	1	15	8.5	4.1
N253486	Drill Core	0.076	5.8	13	1.33	19	0.185	7.02	3.702	2.46	0.3	45.5	15	1.2	7.8	1.9	0.1	<1	17	7.3	5.0
N253487	Drill Core	0.103	7.7	10	0.96	30	0.185	6.91	1.989	2.87	0.4	51.8	18	1.7	8.6	2.6	0.2	<1	14	6.8	5.1
N253488	Drill Core	0.083	11.5	11	0.87	19	0.195	9.82	1.436	2.13	0.3	49.7	27	1.9	12.8	1.9	<0.1	<1	24	8.4	6.2
N253489	Drill Core	0.107	3.4	9	3.06	16	0.380	7.48	2.719	1.24	0.3	41.1	8	1.1	11.5	3.1	0.2	<1	18	14.2	6.1
N253490	Rock	0.006	1.3	2	1.34	16	0.005	0.07	0.029	0.02	<0.1	1.6	1	<0.1	2.3	0.1	<0.1	<1	<1	0.7	<0.1
N253491	Drill Core	0.099	6.0	9	1.92	24	0.344	9.82	5.617	0.96	0.3	41.1	13	1.4	12.8	3.6	0.2	1	20	9.5	3.7
N253492	Drill Core	0.121	9.6	8	2.35	29	0.425	9.67	5.261	1.15	0.6	42.8	22	1.1	14.6	4.3	0.2	<1	22	15.2	3.3
N253493	Drill Core	0.108	10.5	7	1.90	15	0.413	8.61	3.690	1.61	0.3	49.7	22	1.4	11.1	3.6	0.2	1	24	10.7	5.6
N253494	Drill Core	0.075	12.6	16	1.69	22	0.291	8.08	3.266	1.85	0.3	74.4	29	1.1	17.4	3.5	0.3	<1	20	10.6	4.5



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253464	Drill Core	34.5	2.8	0.06	0.061	12	0.8	0.7
N253465	Drill Core	25.9	2.8	<0.05	0.009	9	0.7	0.6
N253466	Rock	0.7	<0.1	<0.05	<0.005	<1	3.0	<0.5
N253467	Drill Core	22.2	2.4	<0.05	0.408	10	1.0	0.7
N253468	Drill Core	26.6	1.1	0.10	0.276	20	0.9	1.3
N253469	Drill Core	21.2	1.0	0.11	0.121	16	1.4	0.6
N253470	Drill Core	22.3	1.4	0.12	0.103	10	1.4	<0.5
N253471	Drill Core	51.6	1.4	0.12	0.063	19	1.2	1.1
N253472	Rock Pulp	28.8	0.5	0.10	0.402	<1	1.2	<0.5
N253473	Drill Core	70.0	1.1	0.13	0.062	17	0.9	1.8
N253474	Drill Core	42.2	0.6	0.10	0.066	14	<0.5	2.0
N253475	Drill Core	47.8	0.7	<0.05	0.064	12	0.8	2.0
N253476	Drill Core	60.6	1.7	<0.05	0.064	17	0.8	1.7
N253477	Drill Core	49.9	1.2	<0.05	0.062	13	<0.5	1.4
N253479	Drill Core	60.7	0.3	<0.05	0.434	14	0.6	1.8
N253480	Drill Core	62.6	0.7	<0.05	0.466	18	0.9	1.7
N253481	Drill Core	49.3	0.5	0.09	0.090	17	<0.5	1.4
N253482	Drill Core	52.1	1.6	<0.05	0.361	12	<0.5	1.3
N253483	Drill Core	52.6	1.6	<0.05	0.053	18	<0.5	1.3
N253484	Rock Pulp	35.3	0.7	0.14	0.337	3	2.4	<0.5
N253485	Drill Core	39.9	1.3	0.05	0.017	12	<0.5	1.3
N253486	Drill Core	44.4	1.3	0.05	0.020	19	0.6	1.3
N253487	Drill Core	63.6	1.6	0.10	0.719	18	0.8	1.3
N253488	Drill Core	54.2	1.6	0.08	0.098	27	1.2	1.2
N253489	Drill Core	17.6	1.2	<0.05	0.060	29	0.8	0.7
N253490	Rock	0.4	<0.1	<0.05	<0.005	<1	1.6	<0.5
N253491	Drill Core	27.1	1.2	0.05	0.027	14	0.5	0.6
N253492	Drill Core	32.1	1.2	0.07	0.036	12	0.6	0.5
N253493	Drill Core	54.6	1.5	0.08	0.069	22	1.1	0.8
N253494	Drill Core	64.6	2.3	0.07	0.034	15	0.9	0.8



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253495	Drill Core	6.75	7	6.3	59.1	11.9	72	<0.1	8.6	15.0	1112	4.83	1	1.6	4.2	296	0.4	0.3	0.3	195	1.14
N253496	Drill Core	6.77	9	3.5	121.8	7.4	62	<0.1	5.8	18.3	846	4.90	<1	1.7	3.7	318	0.1	0.3	0.3	196	0.71
N253497	Drill Core	7.03	4	2.9	77.2	13.2	49	<0.1	4.0	11.5	550	4.08	<1	3.0	6.1	131	0.1	0.2	0.3	76	0.49
N253498	Drill Core	3.36	3	9.6	70.7	10.7	86	<0.1	5.2	13.7	1130	4.72	<1	2.3	3.2	348	0.4	0.2	0.5	178	1.95
N253500	Drill Core	7.87	3	8.3	60.4	9.6	111	<0.1	5.4	15.5	2054	4.97	2	2.1	3.0	234	0.3	0.2	0.4	160	1.32
N253501	Drill Core	8.45	5	6.5	51.6	9.8	106	<0.1	5.9	15.5	1853	5.01	12	1.7	3.5	299	0.2	0.2	0.3	145	1.83
N253502	Drill Core	7.76	4	2.8	52.9	20.6	103	<0.1	4.9	11.2	785	4.21	<1	3.1	6.6	157	0.5	0.2	0.2	74	0.87
N253503	Drill Core	7.08	2	2.4	69.5	20.5	66	<0.1	3.2	8.5	504	3.39	<1	3.6	8.0	101	0.4	0.2	0.3	48	0.50
N253504	Drill Core	6.60	2	2.0	73.1	22.0	58	<0.1	2.6	11.2	523	3.91	<1	2.9	6.0	85	0.4	0.2	0.2	54	0.44
N253505	Rock Pulp	0.06	185	388.8	1949.6	27.8	65	12.9	15.7	10.7	751	3.73	15	1.5	2.4	453	0.7	35.3	2.2	85	2.83
N253506	Drill Core	8.76	4	1.8	61.6	20.7	118	<0.1	6.1	16.1	1396	4.85	<1	2.3	5.1	392	0.5	0.3	0.2	132	2.00
N253507	Drill Core	8.68	3	2.4	56.2	11.4	102	<0.1	6.1	17.4	1224	4.82	3	2.9	5.9	357	0.5	0.3	0.2	137	2.51
N253508	Drill Core	7.61	3	2.5	56.4	10.1	102	<0.1	6.1	16.9	1457	4.76	3	3.0	6.2	467	0.2	0.3	0.2	133	2.69
N253509	Drill Core	6.85	3	1.6	56.4	8.1	90	<0.1	8.4	17.2	1389	4.92	2	2.3	5.0	555	0.3	0.2	0.1	143	3.04
N253510	Drill Core	7.36	2	1.7	49.4	8.3	101	<0.1	6.3	17.0	1464	5.03	3	2.2	4.9	534	0.2	0.2	0.1	146	3.15
N253511	Rock	1.71	<2	<0.1	3.7	0.5	8	<0.1	<0.1	0.5	116	0.10	<1	0.3	0.1	90	<0.1	<0.1	<0.1	<1	34.76
N253512	Drill Core	7.83	2	1.7	48.1	10.6	91	<0.1	5.5	16.7	1109	4.93	<1	2.3	5.0	360	0.5	0.2	0.2	136	2.64
N253513	Drill Core	7.79	<2	1.6	57.6	13.3	90	<0.1	5.8	15.4	808	4.47	<1	2.8	5.5	343	0.6	0.2	0.3	126	2.10
N253514	Drill Core	8.30	<2	1.7	65.1	9.8	68	<0.1	6.0	14.4	997	4.26	<1	3.2	6.7	372	0.2	0.2	0.3	118	1.84
N253515	Rock Pulp	0.06	623	340.9	4074.8	29.3	110	15.5	25.6	72.3	1465	4.86	2050	2.4	1.5	485	1.3	48.2	15.4	60	5.93
N253516	Drill Core	7.88	7	3.1	59.3	14.2	105	<0.1	5.8	15.3	981	4.69	<1	2.3	5.2	137	0.6	0.3	0.5	131	1.71
N253517	Drill Core	8.55	3	2.0	40.1	7.0	64	<0.1	4.3	20.7	1085	5.70	<1	1.1	2.5	313	0.3	0.2	0.4	160	1.48
N253518	Drill Core	6.34	3	1.8	51.5	8.5	90	<0.1	5.1	16.7	1245	4.78	2	2.2	4.5	553	0.2	0.2	0.3	137	2.17
N253519	Drill Core	3.56	2	2.3	51.6	9.8	89	<0.1	4.8	15.4	1302	4.65	<1	2.0	4.5	383	0.2	0.3	0.2	137	2.09
N253521	Drill Core	7.73	3	2.0	49.0	8.0	67	<0.1	5.0	15.8	1302	4.69	<1	2.3	4.8	428	0.1	0.2	0.4	136	1.43
N253522	Drill Core	7.89	4	1.6	38.3	5.5	57	<0.1	4.3	14.4	1309	4.81	2	2.1	4.3	418	<0.1	0.2	0.3	133	1.73
N253523	Drill Core	7.71	3	3.0	38.3	13.3	76	<0.1	5.8	14.8	1047	4.90	<1	2.7	5.2	113	0.2	0.2	0.3	129	0.94
N253524	Drill Core	7.48	3	3.0	49.1	11.7	57	<0.1	4.7	12.6	986	4.03	<1	3.0	6.7	244	0.2	0.2	0.2	98	1.05
N253525	Drill Core	7.97	4	2.8	48.9	8.2	68	<0.1	2.9	13.5	743	4.84	<1	1.9	4.3	408	0.2	0.2	0.4	116	1.12
N253526	Rock Pulp	0.06	215	372.9	1881.5	27.3	61	12.2	15.2	9.5	747	3.64	15	1.0	2.1	460	0.6	34.7	2.0	81	2.74



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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253495	Drill Core	0.082	13.6	12	2.04	27	0.304	8.90	3.952	1.46	0.3	66.9	31	1.1	22.9	4.2	0.3	<1	18	14.0	4.5
N253496	Drill Core	0.090	15.2	8	1.64	28	0.262	8.42	4.089	1.44	0.2	64.0	35	1.3	20.7	3.4	0.2	<1	16	6.7	4.7
N253497	Drill Core	0.075	15.5	5	1.09	23	0.144	7.49	2.669	2.82	0.3	106.5	36	1.2	24.6	3.2	0.3	<1	11	6.2	4.3
N253498	Drill Core	0.091	15.3	12	1.15	26	0.370	9.01	3.444	1.83	0.4	87.0	37	3.3	17.0	5.2	0.3	<1	12	5.9	4.7
N253500	Drill Core	0.095	17.9	10	2.14	25	0.450	8.94	2.703	2.21	0.7	62.2	39	2.3	19.6	6.3	0.4	<1	13	14.9	3.7
N253501	Drill Core	0.090	17.4	10	2.18	33	0.432	8.36	3.563	0.98	0.5	62.5	38	1.8	20.6	7.0	0.4	<1	17	12.6	3.0
N253502	Drill Core	0.069	16.2	10	1.31	22	0.172	7.94	2.577	2.36	0.2	108.6	39	1.0	24.1	3.2	0.2	1	14	9.8	4.0
N253503	Drill Core	0.059	17.6	5	1.08	26	0.122	7.52	2.801	2.50	0.2	126.1	43	1.3	27.5	3.5	0.3	<1	11	8.4	3.7
N253504	Drill Core	0.053	15.4	6	1.22	23	0.107	7.13	2.475	2.78	0.2	116.1	36	1.7	22.1	2.9	0.2	1	11	11.1	4.3
N253505	Rock Pulp	0.052	9.2	22	0.87	775	0.209	7.26	2.331	1.90	1.7	9.6	21	3.1	12.4	2.8	0.2	<1	9	9.7	0.3
N253506	Drill Core	0.084	16.0	9	1.66	31	0.377	8.77	2.930	2.52	0.4	85.6	36	1.3	24.6	6.7	0.4	<1	17	9.3	3.0
N253507	Drill Core	0.081	17.0	10	1.61	35	0.414	8.41	2.519	2.45	0.4	87.8	38	1.1	25.7	8.9	0.6	1	17	7.5	3.0
N253508	Drill Core	0.084	17.3	9	1.59	71	0.432	8.33	2.788	2.75	0.4	92.4	39	1.3	26.9	9.5	0.7	<1	17	7.7	1.7
N253509	Drill Core	0.080	14.6	17	1.74	87	0.444	8.30	2.815	2.17	0.4	79.8	33	1.1	24.5	8.5	0.6	<1	18	8.1	1.9
N253510	Drill Core	0.090	15.2	10	1.69	85	0.451	8.48	2.919	2.30	0.4	75.1	34	1.1	24.5	8.2	0.5	1	17	7.2	1.6
N253511	Rock	0.008	1.3	2	1.89	19	0.006	0.16	0.071	0.05	<0.1	2.1	1	<0.1	2.7	0.4	<0.1	<1	<1	0.9	<0.1
N253512	Drill Core	0.089	15.7	10	1.61	28	0.383	8.54	2.770	2.52	0.4	86.1	36	1.8	24.3	7.0	0.4	1	17	7.4	3.4
N253513	Drill Core	0.076	15.3	9	1.54	25	0.370	8.18	2.550	2.84	0.3	88.8	35	1.2	23.3	7.4	0.5	<1	16	7.7	4.2
N253514	Drill Core	0.077	17.7	8	1.44	34	0.342	8.15	2.451	2.56	0.3	92.9	39	1.0	26.6	8.4	0.6	<1	16	9.5	3.0
N253515	Rock Pulp	0.063	16.4	34	0.79	201	0.154	6.22	1.815	1.80	4.7	23.7	24	3.2	10.2	1.8	0.1	<1	6	13.5	0.6
N253516	Drill Core	0.082	16.1	6	1.59	24	0.303	8.20	2.167	1.73	0.3	103.9	38	1.9	23.9	4.7	0.4	<1	17	9.6	4.4
N253517	Drill Core	0.101	12.6	5	2.01	23	0.324	8.67	3.331	1.40	0.3	62.5	28	1.2	19.1	3.6	0.2	<1	17	13.8	5.1
N253518	Drill Core	0.082	14.3	7	1.63	34	0.396	8.33	2.863	1.97	0.3	103.2	32	1.3	22.6	7.4	0.5	<1	16	9.3	3.2
N253519	Drill Core	0.085	14.2	7	1.71	34	0.396	8.09	2.741	1.90	0.4	97.1	33	1.2	22.9	7.0	0.5	<1	16	10.1	3.1
N253521	Drill Core	0.078	14.3	7	1.77	26	0.333	8.10	2.284	1.82	0.3	106.6	33	1.2	22.7	5.7	0.4	1	16	9.8	4.0
N253522	Drill Core	0.085	13.9	7	1.71	27	0.324	8.19	2.644	1.52	0.3	92.0	32	1.0	21.1	5.1	0.3	<1	15	11.1	3.8
N253523	Drill Core	0.086	13.1	7	1.86	22	0.295	8.11	1.421	2.87	0.2	120.8	33	1.7	23.0	5.7	0.4	<1	16	13.8	4.4
N253524	Drill Core	0.068	17.5	7	1.37	27	0.253	8.01	2.327	2.65	0.4	118.7	41	1.3	27.4	5.7	0.4	<1	15	7.9	3.9
N253525	Drill Core	0.084	14.1	4	1.47	22	0.207	7.99	3.026	1.69	0.4	88.1	32	1.3	21.0	3.4	0.2	1	13	9.7	4.9
N253526	Rock Pulp	0.055	8.2	18	0.84	724	0.201	6.98	2.273	1.85	1.6	9.7	19	2.9	11.9	2.5	0.2	<1	9	9.1	0.3



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N253495	Drill Core	54.9	2.0	<0.05	0.058	18	1.0	0.8
N253496	Drill Core	56.2	2.0	<0.05	0.080	18	0.9	0.9
N253497	Drill Core	81.6	3.4	<0.05	0.006	20	0.6	1.2
N253498	Drill Core	48.2	2.7	0.11	0.035	21	1.4	0.6
N253500	Drill Core	56.8	1.9	0.12	0.043	12	0.9	0.7
N253501	Drill Core	29.2	2.0	0.07	0.025	11	0.8	<0.5
N253502	Drill Core	67.7	3.5	0.05	0.007	16	0.7	0.9
N253503	Drill Core	68.0	4.0	<0.05	<0.005	14	0.5	1.0
N253504	Drill Core	75.0	3.5	0.05	0.006	18	0.9	1.2
N253505	Rock Pulp	40.1	0.5	0.16	0.397	<1	1.4	<0.5
N253506	Drill Core	66.2	2.6	0.08	<0.005	13	0.8	0.7
N253507	Drill Core	70.9	2.8	<0.05	0.014	12	0.9	0.7
N253508	Drill Core	73.9	2.8	0.08	0.008	8	1.0	0.6
N253509	Drill Core	63.6	2.4	0.12	0.008	7	0.7	<0.5
N253510	Drill Core	64.8	2.2	0.11	0.007	6	0.8	<0.5
N253511	Rock	1.3	<0.1	<0.05	<0.005	<1	9.2	<0.5
N253512	Drill Core	65.5	2.5	0.06	<0.005	15	0.9	0.7
N253513	Drill Core	77.1	2.8	<0.05	0.009	18	0.8	0.8
N253514	Drill Core	68.7	2.8	0.06	<0.005	10	0.8	0.7
N253515	Rock Pulp	39.2	0.7	0.17	0.368	4	2.9	<0.5
N253516	Drill Core	64.3	3.0	0.07	<0.005	18	0.7	0.8
N253517	Drill Core	54.3	1.7	0.07	<0.005	14	<0.5	0.7
N253518	Drill Core	60.4	2.7	0.08	<0.005	12	0.9	0.6
N253519	Drill Core	59.3	2.8	0.07	<0.005	9	1.1	0.6
N253521	Drill Core	63.9	3.2	<0.05	<0.005	15	1.4	0.6
N253522	Drill Core	51.3	2.6	0.11	<0.005	11	0.6	0.5
N253523	Drill Core	94.5	3.5	0.10	<0.005	15	0.8	1.2
N253524	Drill Core	85.0	3.6	0.07	<0.005	14	0.9	0.7
N253525	Drill Core	57.2	2.5	<0.05	0.006	16	0.7	0.7
N253526	Rock Pulp	39.4	0.5	0.08	0.391	<1	1.2	<0.5



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
N253527	Drill Core	7.96	<2	0.7	24.7	8.1	66	<0.1	2.0	19.2	721	5.83	<1	0.7	1.6	163	0.2	0.2	0.3	152	0.81
N253528	Drill Core	6.83	4	3.9	49.1	6.9	55	<0.1	3.7	10.3	660	3.60	<1	3.4	7.1	113	0.3	0.2	0.2	78	0.57
N253529	Drill Core	7.91	<2	4.1	59.7	12.1	108	<0.1	3.9	10.9	505	3.60	<1	3.3	7.5	45	0.5	0.3	0.2	59	0.35
N253530	Drill Core	8.64	<2	3.6	48.9	4.9	41	<0.1	4.3	12.2	458	3.73	<1	3.6	7.5	66	<0.1	0.2	0.1	57	0.42
N253531	Drill Core	6.50	<2	1.7	32.1	3.5	30	<0.1	3.5	8.5	349	3.42	<1	2.9	6.7	79	<0.1	0.2	0.1	52	0.60
N253532	Rock	1.85	<2	<0.1	0.8	0.5	2	<0.1	<0.1	<0.2	110	0.09	4	0.3	<0.1	76	<0.1	<0.1	<0.1	<1	34.21
N253533	Drill Core	6.15	<2	1.4	38.3	6.4	41	<0.1	2.8	12.2	612	4.44	<1	2.0	4.2	88	0.1	0.2	0.2	94	0.61
N253534	Drill Core	7.42	<2	1.3	32.8	7.5	77	<0.1	2.6	14.5	693	4.83	<1	1.5	3.3	116	0.2	0.2	0.2	108	0.65
N253535	Drill Core	7.11	2	2.1	52.0	10.7	95	<0.1	3.9	10.3	867	3.51	<1	3.1	6.7	152	0.3	0.2	0.2	72	0.95
N253536	Drill Core	7.34	<2	3.1	49.2	8.9	86	<0.1	4.4	11.8	1252	3.94	1	3.2	6.8	192	0.2	0.2	0.2	96	1.57
N253537	Drill Core	7.29	3	8.8	41.8	11.1	73	<0.1	4.9	18.8	1283	5.82	<1	1.6	3.8	358	<0.1	0.3	0.3	175	2.00
N253538	Drill Core	7.82	2	1.1	38.4	4.4	60	<0.1	4.4	13.8	1259	4.62	2	1.8	4.0	362	<0.1	0.1	0.2	144	2.34
N253539	Rock Pulp	0.06	679	326.9	3795.0	26.3	104	14.2	24.7	66.4	1421	4.56	2003	2.2	1.3	429	1.2	38.7	14.0	57	5.78
N253540	Drill Core	7.97	<2	2.1	48.8	5.9	96	<0.1	4.9	17.8	1269	5.10	3	1.3	2.9	340	0.2	0.2	0.2	155	2.42
N253541	Drill Core	7.72	3	1.3	60.9	5.8	95	<0.1	7.5	20.7	1506	5.10	2	0.8	1.7	337	0.2	0.2	0.2	178	3.19
N253542	Drill Core	7.52	2	1.2	42.9	5.4	93	<0.1	3.6	16.5	1521	5.01	2	1.3	2.8	408	<0.1	0.2	0.1	150	2.69
N253543	Drill Core	8.08	2	1.2	46.8	4.8	107	<0.1	3.3	18.3	1849	5.30	2	0.9	2.1	436	0.1	0.2	0.1	167	2.71
N253544	Drill Core	3.79	<2	1.7	32.9	5.6	89	<0.1	3.7	15.3	1406	4.78	2	1.5	3.4	322	<0.1	0.2	0.2	146	2.32
N253546	Drill Core	7.19	4	2.2	42.5	9.1	59	<0.1	4.4	16.2	1275	4.95	1	1.3	3.0	94	<0.1	0.2	0.3	150	1.30
N253547	Drill Core	6.31	11	5.5	68.6	21.7	97	0.9	6.1	19.0	1532	5.66	12	0.9	2.0	419	0.2	1.0	0.1	164	5.05
N253548	Drill Core	7.30	12	6.6	37.8	24.2	180	0.4	6.7	19.0	1765	5.67	15	1.3	2.1	389	0.9	1.2	0.1	163	4.07
N253549	Drill Core	7.67	92	9.6	22.8	8.8	74	0.4	6.2	19.3	1469	5.63	63	1.5	2.2	383	0.2	1.4	<0.1	155	4.07
N253550	Rock Pulp	0.06	I.S.	377.4	1829.3	22.3	56	12.9	14.2	9.2	681	3.49	12	1.0	1.8	379	0.6	29.1	1.9	83	2.66
N253551	Drill Core	6.80	32	3.4	31.0	6.1	78	0.3	6.5	19.7	1492	5.63	47	1.1	2.0	389	0.1	1.2	<0.1	158	4.48
N253552	Drill Core	9.11	30	3.0	84.1	5.6	81	0.3	6.6	18.1	1430	5.42	46	1.2	2.3	322	0.2	1.0	<0.1	154	3.49
N253553	Drill Core	9.10	12	2.1	65.1	6.4	71	1.7	11.3	21.6	1240	5.60	36	1.2	2.5	292	0.1	0.8	<0.1	186	2.73
N253554	Drill Core	7.19	4	1.9	34.2	19.2	86	0.1	13.1	23.4	1555	5.87	12	1.3	2.5	340	0.1	0.7	<0.1	193	3.67
N253555	Drill Core	7.39	19	2.1	35.5	13.3	79	0.4	6.9	20.6	1372	6.36	26	0.6	1.5	306	0.4	0.9	<0.1	181	3.79
N253556	Rock	2.54	<2	<0.1	1.2	0.3	3	<0.1	0.5	0.4	111	0.10	<1	0.1	<0.1	67	<0.1	<0.1	<0.1	1	32.67
N253557	Drill Core	7.07	19	2.3	44.9	6.7	79	0.3	7.8	18.8	1219	5.02	42	1.2	2.7	285	0.2	1.3	<0.1	160	4.25



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
N253527	Drill Core	0.110	10.3	3	2.06	16	0.213	8.35	3.262	1.55	0.3	53.6	24	1.1	16.9	1.5	<0.1	1	15	12.0	5.5	
N253528	Drill Core	0.065	17.5	6	1.32	26	0.189	7.56	2.264	2.61	0.4	149.7	42	1.3	23.4	4.3	0.4	<1	13	8.0	3.4	
N253529	Drill Core	0.058	17.1	5	1.36	23	0.086	7.25	1.718	2.95	0.3	151.3	41	0.8	18.8	2.4	0.2	<1	12	8.2	3.9	
N253530	Drill Core	0.063	16.2	5	1.24	22	0.110	6.99	1.656	3.09	0.3	151.0	40	1.1	22.5	3.1	0.3	1	11	7.6	4.1	
N253531	Drill Core	0.054	17.3	4	0.99	19	0.112	6.88	2.221	2.57	0.3	144.8	40	0.7	22.2	3.6	0.3	<1	10	6.3	3.9	
N253532	Rock	0.008	1.2	1	1.55	19	0.005	0.12	0.041	0.05	<0.1	1.7	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.8	<0.1	
N253533	Drill Core	0.082	11.6	4	1.48	13	0.139	6.82	2.101	2.36	0.2	92.9	28	0.7	16.1	2.5	0.2	<1	12	8.9	5.0	
N253534	Drill Core	0.096	12.2	4	1.67	13	0.140	7.60	2.689	1.87	0.2	76.0	29	0.7	16.3	2.0	0.2	<1	14	8.7	5.5	
N253535	Drill Core	0.066	17.2	5	1.19	19	0.163	7.62	2.084	2.58	0.3	134.3	38	0.9	21.6	4.6	0.4	<1	12	6.3	3.9	
N253536	Drill Core	0.069	18.3	7	1.33	19	0.269	8.10	2.109	2.96	0.5	148.8	41	1.0	24.4	6.6	0.5	1	14	8.1	3.9	
N253537	Drill Core	0.104	17.0	4	2.27	21	0.397	10.07	1.954	2.57	0.4	87.3	36	1.2	22.9	5.7	0.4	<1	20	14.1	5.1	
N253538	Drill Core	0.091	16.3	5	1.69	24	0.344	8.23	2.742	1.50	0.3	88.4	35	1.0	20.0	5.3	0.4	<1	16	10.4	3.2	
N253539	Rock Pulp	0.060	14.3	31	0.73	337	0.140	5.68	1.651	1.56	4.3	19.9	22	2.8	7.6	1.6	<0.1	<1	5	10.7	0.6	
N253540	Drill Core	0.088	10.6	6	1.85	25	0.397	8.07	2.567	1.52	0.4	79.2	25	1.1	16.1	5.0	0.4	<1	16	11.0	3.8	
N253541	Drill Core	0.087	9.1	7	2.18	43	0.414	8.05	2.216	1.08	0.3	52.7	21	1.2	14.1	4.0	0.3	<1	19	11.1	3.6	
N253542	Drill Core	0.095	11.5	5	1.89	31	0.388	7.66	2.647	1.54	0.5	74.8	26	1.0	16.3	5.2	0.3	<1	15	9.6	3.7	
N253543	Drill Core	0.103	11.6	4	1.96	43	0.401	8.27	2.916	1.38	0.3	58.9	26	1.3	16.6	4.5	0.3	<1	16	10.7	3.0	
N253544	Drill Core	0.094	13.0	5	1.67	28	0.348	8.24	2.682	1.55	0.3	83.9	29	1.1	17.4	5.2	0.4	<1	15	9.5	3.0	
N253546	Drill Core	0.090	12.5	5	1.86	19	0.371	8.65	1.319	2.54	0.5	76.3	28	1.5	17.5	4.8	0.3	<1	15	10.8	4.5	
N253547	Drill Core	0.095	11.2	6	1.96	179	0.425	8.49	1.796	1.09	0.5	57.0	25	1.0	16.6	4.1	0.3	<1	16	14.0	1.7	
N253548	Drill Core	0.095	11.4	7	1.95	86	0.422	8.11	2.048	1.38	0.6	60.5	24	0.8	17.2	4.1	0.2	<1	15	17.1	2.2	
N253549	Drill Core	0.092	11.7	7	1.79	99	0.402	8.02	2.051	1.85	0.7	62.9	25	0.6	16.0	4.0	0.2	<1	15	16.5	1.8	
N253550	Rock Pulp	0.050	7.3	18	0.81	677	0.188	6.45	2.124	1.73	1.7	9.4	16	2.5	9.1	2.3	0.1	<1	8	7.4	0.3	
N253551	Drill Core	0.091	11.5	7	1.90	166	0.430	8.03	1.896	1.82	0.7	69.4	25	1.0	16.7	4.3	0.3	<1	16	15.9	1.4	
N253552	Drill Core	0.089	11.9	8	1.96	108	0.409	7.70	1.927	2.13	0.6	67.0	26	1.0	16.7	4.2	0.3	<1	17	19.0	1.6	
N253553	Drill Core	0.078	10.7	17	2.21	54	0.440	8.21	1.830	2.12	9.3	66.5	24	1.1	16.7	4.6	0.3	<1	21	18.7	2.3	
N253554	Drill Core	0.086	11.3	19	2.46	148	0.480	8.20	2.000	2.21	0.4	70.8	25	1.0	18.2	4.6	0.3	<1	22	17.8	1.3	
N253555	Drill Core	0.099	10.2	7	2.31	40	0.443	8.33	1.284	1.42	0.8	37.9	23	1.6	16.9	3.3	0.2	<1	18	19.7	3.6	
N253556	Rock	0.007	1.1	1	2.41	12	0.006	0.05	0.022	0.02	<0.1	1.3	<1	<0.1	1.8	0.1	<0.1	<1	<1	0.7	<0.1	
N253557	Drill Core	0.072	12.2	10	1.92	89	0.400	7.83	0.708	2.28	0.6	52.8	26	1.0	16.6	4.4	0.3	<1	17	21.4	1.9	



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253527	Drill Core	57.7	1.2	<0.05	<0.005	11	0.5	0.6
N253528	Drill Core	83.6	4.2	<0.05	<0.005	9	<0.5	0.9
N253529	Drill Core	94.9	4.3	0.09	0.006	10	<0.5	0.8
N253530	Drill Core	95.9	4.4	<0.05	<0.005	10	<0.5	0.8
N253531	Drill Core	74.8	4.1	<0.05	<0.005	10	<0.5	0.6
N253532	Rock	1.3	<0.1	<0.05	<0.005	<1	6.2	<0.5
N253533	Drill Core	69.4	2.9	<0.05	<0.005	17	<0.5	0.7
N253534	Drill Core	64.0	2.4	0.06	<0.005	13	<0.5	0.6
N253535	Drill Core	77.4	4.0	0.05	0.005	12	<0.5	0.6
N253536	Drill Core	84.1	4.3	<0.05	<0.005	10	0.7	0.7
N253537	Drill Core	96.6	2.4	0.05	<0.005	14	0.6	0.8
N253538	Drill Core	47.8	2.4	<0.05	<0.005	8	0.6	<0.5
N253539	Rock Pulp	33.8	0.7	0.14	0.356	5	3.4	<0.5
N253540	Drill Core	45.0	2.4	<0.05	<0.005	10	0.8	0.5
N253541	Drill Core	30.3	1.5	0.08	<0.005	9	1.1	<0.5
N253542	Drill Core	41.0	2.1	<0.05	<0.005	8	1.1	<0.5
N253543	Drill Core	41.2	1.6	0.06	<0.005	7	0.8	<0.5
N253544	Drill Core	50.0	2.4	<0.05	<0.005	7	0.6	0.5
N253546	Drill Core	94.1	2.1	0.07	<0.005	10	1.0	1.0
N253547	Drill Core	35.5	1.8	0.07	<0.005	4	1.8	<0.5
N253548	Drill Core	42.6	1.9	0.07	<0.005	6	1.7	<0.5
N253549	Drill Core	46.0	1.9	0.07	0.008	3	0.8	0.5
N253550	Rock Pulp	31.0	0.6	0.09	0.368	<1	1.3	<0.5
N253551	Drill Core	49.4	2.1	0.06	<0.005	2	1.0	0.6
N253552	Drill Core	62.9	2.0	0.07	<0.005	3	0.9	0.6
N253553	Drill Core	58.1	1.9	0.09	<0.005	5	0.6	0.6
N253554	Drill Core	70.7	2.0	0.06	<0.005	2	0.9	0.7
N253555	Drill Core	63.0	1.3	0.07	<0.005	6	1.5	0.5
N253556	Rock	0.4	<0.1	<0.05	<0.005	<1	8.1	<0.5
N253557	Drill Core	74.9	1.6	<0.05	<0.005	3	0.8	0.8



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253558	Drill Core	5.23	21	4.9	70.2	7.5	70	0.5	6.1	16.6	972	4.53	21	1.4	3.0	275	0.1	0.9	0.2	150	4.04
N253559	Drill Core	2.85	7	2.2	61.6	6.6	73	0.2	7.6	17.4	1177	4.63	7	1.8	4.5	220	<0.1	0.6	<0.1	150	3.98
N253560	Drill Core	3.56	25	2.9	54.5	7.1	64	0.7	7.2	15.7	759	4.58	16	1.9	4.1	118	<0.1	0.8	0.2	144	3.11
N253561	Drill Core	3.98	15	2.8	97.2	8.1	93	0.6	8.8	18.5	998	4.63	14	1.7	3.6	135	0.3	0.8	0.2	152	3.18
N253562	Rock Pulp	0.06	660	321.7	3695.4	24.8	101	14.3	24.2	66.6	1389	4.46	2006	2.0	1.3	413	1.0	38.1	12.8	56	5.64
N253563	Drill Core	3.02	13	8.4	389.9	20.9	139	0.4	7.1	17.8	1549	4.79	7	1.5	3.2	123	0.3	0.7	0.6	143	2.56
N253564	Drill Core	4.15	7	4.2	160.2	11.0	85	0.2	7.9	21.1	1134	4.65	3	1.9	4.1	175	<0.1	0.6	0.4	149	2.04
N253565	Drill Core	4.06	8	3.5	52.4	7.5	76	0.2	8.3	15.9	1269	4.97	3	2.2	5.0	158	0.2	0.6	0.6	159	2.02
N253566	Drill Core	3.07	5	2.8	67.0	7.1	78	0.1	8.4	17.8	1162	4.66	2	2.4	5.3	157	<0.1	0.6	0.3	146	2.90
N253567	Drill Core	3.37	17	8.7	299.8	39.7	115	0.6	7.0	16.4	800	4.01	1	1.8	4.0	101	1.2	0.6	0.7	126	3.52
N253568	Drill Core	4.40	6	5.5	101.6	5.8	51	0.2	7.6	15.9	1076	4.49	3	2.0	4.9	163	<0.1	0.4	0.4	152	1.96
N253569	Rock	2.02	<2	0.1	1.2	0.5	3	<0.1	<0.1	0.4	120	0.12	<1	0.1	<0.1	75	<0.1	<0.1	<0.1	1	32.99
N253570	Drill Core	3.27	2	2.0	49.2	5.6	42	<0.1	7.6	16.7	832	4.47	4	2.0	4.6	326	0.1	0.4	0.2	144	3.17
N253571	Drill Core	4.14	<2	1.9	62.8	4.5	44	<0.1	8.4	16.2	969	4.66	3	2.3	5.7	383	<0.1	0.3	<0.1	154	3.61
N253572	Drill Core	3.88	<2	3.0	64.9	5.4	50	<0.1	8.2	16.3	1067	4.69	3	2.4	5.4	273	<0.1	0.4	<0.1	152	3.97
N253573	Drill Core	4.03	<2	2.4	56.2	6.4	50	<0.1	8.0	16.6	1147	4.74	2	2.5	6.0	317	0.1	0.5	<0.1	157	3.49
N253574	Drill Core	3.81	<2	2.9	152.0	6.8	70	0.3	8.2	15.9	1156	4.59	3	2.6	5.9	251	0.2	0.5	<0.1	157	3.11
N253575	Rock Pulp	0.06	217	379.0	1864.0	24.5	55	12.2	14.0	10.2	713	3.58	12	1.2	2.6	428	0.6	30.1	1.8	83	2.79
N253576	Drill Core	4.30	<2	2.5	52.9	4.5	54	<0.1	8.3	15.7	1106	4.77	2	2.6	6.1	349	<0.1	0.4	<0.1	154	3.23
N253577	Drill Core	3.98	<2	2.9	64.6	5.1	48	<0.1	8.1	16.5	1059	4.77	2	2.4	5.5	389	<0.1	0.4	<0.1	156	3.32
N253578	Drill Core	4.00	<2	3.4	64.9	4.4	46	<0.1	8.5	17.6	1135	4.75	3	2.5	5.6	347	<0.1	0.4	<0.1	156	3.57
N253579	Drill Core	3.60	<2	4.1	60.3	4.4	57	<0.1	9.1	17.8	1066	4.67	3	2.2	5.3	267	<0.1	0.6	0.2	154	2.61
N253580	Drill Core	4.28	3	3.1	63.1	5.9	61	<0.1	8.4	16.9	1101	4.71	3	2.4	5.6	307	<0.1	0.5	<0.1	157	3.14
N253581	Drill Core	4.17	<2	3.6	59.3	6.8	68	<0.1	8.0	16.2	1155	4.52	4	2.4	5.4	316	0.1	0.7	<0.1	152	3.47
N253582	Drill Core	5.13	<2	3.1	66.8	4.9	87	<0.1	7.9	16.9	1252	4.91	3	2.4	5.4	404	0.3	0.4	<0.1	165	3.36
N253583	Rock	1.87	<2	<0.1	0.8	0.3	2	<0.1	<0.1	0.3	130	0.10	<1	<0.1	<0.1	73	<0.1	<0.1	<0.1	1	33.21
N255843	Drill Core	3.66	<2	4.4	66.9	9.0	39	<0.1	5.9	12.2	444	4.18	<1	3.9	8.3	51	<0.1	0.2	<0.1	94	1.67
N255866	Drill Core	4.31	<2	2.1	63.1	4.5	64	<0.1	9.7	17.4	1068	4.84	1	1.9	4.4	348	<0.1	0.2	<0.1	169	4.11
N255886	Drill Core	3.19	<2	1.7	54.5	4.6	67	<0.1	9.2	18.6	1158	5.06	1	1.8	4.3	424	<0.1	0.3	<0.1	180	4.21
N255911	Drill Core	1.98	<2	4.8	298.3	6.8	77	0.1	9.6	18.4	1262	4.97	2	1.4	3.1	363	0.2	0.4	0.1	165	4.04



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253558	Drill Core	0.070	11.7	7	1.48	82	0.354	6.95	0.356	1.81	0.9	57.2	26	0.9	16.6	4.8	0.3	<1	16	24.4	2.6	
N253559	Drill Core	0.072	12.5	12	1.53	86	0.429	7.46	1.346	2.52	0.7	91.9	29	1.3	20.0	7.1	0.5	<1	17	15.0	1.6	
N253560	Drill Core	0.063	11.8	11	1.38	57	0.376	6.83	0.424	1.99	0.7	86.3	27	1.3	18.4	6.4	0.4	<1	17	16.4	3.0	
N253561	Drill Core	0.069	12.9	14	1.50	45	0.370	7.38	0.690	2.17	0.6	62.7	29	1.2	17.5	5.4	0.4	<1	17	16.5	2.6	
N253562	Rock Pulp	0.060	13.9	30	0.71	275	0.134	5.55	1.626	1.51	3.8	18.9	22	2.6	7.4	1.5	<0.1	<1	5	11.2	0.6	
N253563	Drill Core	0.072	12.0	11	1.85	50	0.372	6.73	0.503	2.36	0.7	73.3	26	1.1	18.7	5.7	0.4	<1	17	20.8	2.3	
N253564	Drill Core	0.068	11.6	13	1.65	36	0.414	7.48	0.881	2.47	0.6	97.4	28	8.4	20.7	7.4	0.5	<1	17	13.5	2.9	
N253565	Drill Core	0.068	15.6	13	2.09	32	0.381	7.63	0.661	2.49	0.6	94.5	35	1.4	20.9	6.9	0.5	<1	18	14.5	2.7	
N253566	Drill Core	0.070	16.6	13	1.77	47	0.401	7.49	0.970	2.19	0.5	107.8	36	1.2	22.7	6.9	0.5	<1	19	14.3	2.3	
N253567	Drill Core	0.065	13.7	11	1.17	38	0.355	7.00	0.306	2.27	0.9	93.8	30	1.4	19.1	6.5	0.4	<1	15	13.5	2.7	
N253568	Drill Core	0.069	14.7	12	1.80	38	0.370	8.21	0.788	2.65	0.9	88.7	33	2.0	21.0	6.6	0.5	<1	17	15.8	2.3	
N253569	Rock	0.007	1.3	1	2.25	15	0.005	0.04	0.019	0.01	<0.1	1.5	<1	<0.1	2.0	0.2	<0.1	<1	<1	1.2	<0.1	
N253570	Drill Core	0.062	14.8	12	1.57	42	0.352	8.03	1.928	2.39	0.5	69.6	33	1.2	20.4	6.4	0.4	<1	16	8.8	2.1	
N253571	Drill Core	0.070	19.2	11	1.61	356	0.389	8.23	2.385	2.49	0.5	74.7	41	1.2	23.0	7.1	0.5	<1	18	6.1	0.7	
N253572	Drill Core	0.067	18.3	12	1.62	827	0.408	7.91	2.100	2.40	0.5	76.5	38	1.2	22.9	7.2	0.5	<1	19	6.4	0.5	
N253573	Drill Core	0.064	18.7	11	1.60	488	0.409	7.89	2.331	2.32	0.5	93.3	39	1.2	24.7	7.6	0.5	<1	19	6.4	0.6	
N253574	Drill Core	0.071	19.7	12	1.65	88	0.423	7.80	2.039	2.53	0.5	99.8	43	1.2	24.8	7.5	0.5	<1	20	10.0	1.1	
N253575	Rock Pulp	0.049	11.0	18	0.84	748	0.178	7.01	2.133	1.84	1.6	9.2	24	2.4	11.8	2.4	0.2	<1	9	7.6	0.3	
N253576	Drill Core	0.068	22.1	11	1.63	174	0.396	7.99	2.408	2.82	0.5	103.5	47	1.2	26.0	7.5	0.5	<1	21	6.2	0.8	
N253577	Drill Core	0.067	18.8	12	1.62	185	0.405	7.88	2.503	2.50	0.5	110.9	40	1.2	25.0	7.9	0.5	<1	19	5.8	0.9	
N253578	Drill Core	0.072	20.2	12	1.66	257	0.432	8.06	2.509	2.60	0.6	117.0	43	1.2	26.1	8.3	0.5	<1	20	6.9	0.8	
N253579	Drill Core	0.072	16.7	13	1.93	59	0.396	8.04	1.837	2.31	0.7	114.6	37	1.6	25.1	7.7	0.5	<1	19	14.1	1.4	
N253580	Drill Core	0.069	18.5	12	1.67	61	0.405	8.21	2.674	2.77	0.6	110.9	40	1.3	25.8	7.8	0.5	<1	20	7.5	1.4	
N253581	Drill Core	0.062	18.1	12	1.56	131	0.394	7.70	2.438	2.28	0.6	108.8	37	1.2	23.7	7.6	0.5	<1	19	8.8	1.0	
N253582	Drill Core	0.069	20.3	11	1.71	222	0.416	8.07	2.488	2.36	0.7	109.1	42	1.2	24.7	7.6	0.5	<1	22	6.8	0.8	
N253583	Rock	0.006	1.2	1	2.11	16	0.005	0.05	0.024	0.01	<0.1	1.6	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.8	<0.1	
N255843	Drill Core	0.073	21.8	9	1.03	18	0.341	7.65	0.298	3.62	0.5	145.1	51	1.9	29.8	9.5	0.7	<1	14	8.1	3.1	
N255866	Drill Core	0.066	18.7	10	1.67	630	0.409	8.10	2.473	1.70	0.4	107.5	38	0.9	22.9	6.0	0.4	<1	20	9.4	0.2	
N255886	Drill Core	0.075	17.9	10	1.79	610	0.419	8.38	2.637	1.49	0.4	96.5	37	1.1	24.7	5.8	0.4	<1	24	10.0	0.3	
N255911	Drill Core	0.070	13.8	11	1.79	348	0.434	8.07	2.008	1.42	0.5	89.1	30	1.0	21.3	6.3	0.4	<1	20	10.3	1.0	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253558	Drill Core	60.3	1.8	0.06	<0.005	5	1.4	0.6
N253559	Drill Core	67.3	3.0	<0.05	<0.005	3	1.0	0.6
N253560	Drill Core	68.5	2.6	<0.05	<0.005	8	1.7	0.6
N253561	Drill Core	71.7	2.0	0.08	<0.005	6	1.6	0.6
N253562	Rock Pulp	32.3	0.7	0.12	0.363	3	2.8	<0.5
N253563	Drill Core	79.3	2.2	0.10	<0.005	8	1.7	0.8
N253564	Drill Core	73.1	3.0	0.06	<0.005	6	1.5	0.7
N253565	Drill Core	80.1	2.9	<0.05	<0.005	6	1.4	0.6
N253566	Drill Core	76.2	3.1	0.06	<0.005	5	1.3	0.6
N253567	Drill Core	73.6	2.7	<0.05	<0.005	8	1.3	0.7
N253568	Drill Core	87.9	2.6	0.06	<0.005	5	1.0	0.7
N253569	Rock	0.4	<0.1	<0.05	<0.005	<1	8.4	<0.5
N253570	Drill Core	67.0	2.1	<0.05	<0.005	4	1.0	<0.5
N253571	Drill Core	65.6	2.2	<0.05	<0.005	2	0.8	<0.5
N253572	Drill Core	59.7	2.3	<0.05	<0.005	1	0.5	<0.5
N253573	Drill Core	63.4	2.8	<0.05	<0.005	2	0.8	<0.5
N253574	Drill Core	77.8	2.9	0.06	<0.005	3	0.7	<0.5
N253575	Rock Pulp	40.3	0.5	0.09	0.410	<1	1.2	<0.5
N253576	Drill Core	84.7	2.8	<0.05	<0.005	3	1.1	<0.5
N253577	Drill Core	73.4	3.0	<0.05	<0.005	3	0.8	<0.5
N253578	Drill Core	71.1	3.2	0.06	<0.005	1	0.5	<0.5
N253579	Drill Core	80.3	2.9	0.06	<0.005	3	0.9	<0.5
N253580	Drill Core	74.0	3.1	0.07	<0.005	3	0.9	<0.5
N253581	Drill Core	61.5	3.0	<0.05	<0.005	3	0.8	<0.5
N253582	Drill Core	72.5	3.1	0.07	<0.005	2	0.6	<0.5
N253583	Rock	0.4	<0.1	<0.05	<0.005	<1	1.8	<0.5
N255843	Drill Core	122.4	4.3	0.05	0.021	10	<0.5	1.0
N255866	Drill Core	61.6	3.1	0.06	<0.005	<1	<0.5	<0.5
N255886	Drill Core	57.5	2.7	<0.05	<0.005	<1	0.7	<0.5
N255911	Drill Core	35.6	2.6	0.11	<0.005	3	0.7	<0.5



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253584	Drill Core	3.11	<2	3.0	49.4	6.1	63	<0.1	8.1	18.6	1145	4.81	2	2.4	5.6	380	<0.1	0.6	<0.1	161	3.53
N253585	Drill Core	4.07	2	3.9	91.2	19.3	90	0.1	8.8	17.4	1092	4.55	3	2.1	5.0	339	0.2	0.7	0.1	154	2.82
N253586	Drill Core	4.40	3	5.5	86.2	11.5	74	0.1	8.3	16.5	1279	4.96	1	2.2	5.3	316	<0.1	0.6	0.3	157	2.43
N253656	Drill Core	4.27	<2	3.1	70.9	4.6	66	<0.1	7.9	16.1	1132	4.82	2	2.3	5.7	273	<0.1	0.4	0.1	157	2.64
N253587	Drill Core	4.65	2	2.3	49.2	4.2	54	<0.1	8.2	17.0	1043	4.65	3	2.2	5.5	395	<0.1	0.4	<0.1	150	3.42
N253588	Drill Core	4.39	<2	2.7	60.8	4.5	57	<0.1	8.4	17.3	1151	4.95	2	2.3	5.6	450	<0.1	0.5	<0.1	164	3.61
N253589	Rock Pulp	0.06	580	332.3	3830.0	26.1	100	15.7	25.2	65.9	1429	4.67	2031	2.1	1.3	455	1.1	40.8	13.7	58	5.85
N253590	Drill Core	4.82	2	2.5	55.4	4.4	53	<0.1	8.9	17.8	1094	4.85	3	2.2	5.3	415	<0.1	0.5	<0.1	160	3.31
N253591	Drill Core	4.36	<2	2.4	45.0	4.1	55	<0.1	7.7	19.1	1083	4.81	6	2.5	5.9	430	<0.1	0.4	<0.1	159	3.49
N253592	Drill Core	4.66	<2	2.2	53.3	4.2	51	<0.1	8.5	17.7	1151	4.91	2	2.5	6.1	454	<0.1	0.4	<0.1	166	3.86
N253593	Drill Core	4.51	3	2.3	53.8	4.4	54	<0.1	8.5	18.4	1135	4.85	3	2.5	6.0	379	<0.1	0.4	<0.1	168	4.32
N253594	Drill Core	4.28	2	2.3	55.3	5.4	55	<0.1	8.8	17.8	1110	4.95	4	2.6	5.9	381	<0.1	0.5	<0.1	165	3.76
N253595	Rock	2.47	<2	<0.1	0.7	0.7	3	<0.1	0.4	0.2	124	0.11	<1	0.2	<0.1	76	<0.1	<0.1	<0.1	1	34.02
N253596	Drill Core	4.51	<2	2.7	62.7	4.8	51	<0.1	8.1	16.5	1083	4.81	3	2.5	6.0	358	<0.1	0.6	<0.1	160	3.34
N253597	Drill Core	4.45	2	2.7	69.0	6.1	60	<0.1	8.6	15.9	1179	4.75	4	2.6	6.2	333	<0.1	0.5	<0.1	155	2.98
N253598	Drill Core	4.60	<2	2.6	61.6	4.9	59	<0.1	9.1	19.6	1106	4.87	8	2.0	4.9	345	0.1	0.6	<0.1	158	3.73
N253599	Drill Core	4.42	<2	3.0	74.8	4.9	54	<0.1	8.7	18.9	1143	4.79	4	2.1	4.8	312	<0.1	0.8	<0.1	161	3.74
N253600	Drill Core	4.36	<2	2.5	57.4	5.0	60	<0.1	8.5	18.7	1121	4.67	4	2.2	5.2	358	<0.1	0.7	<0.1	153	3.45
N253601	Drill Core	4.59	<2	2.8	66.1	6.4	58	<0.1	12.3	18.6	1263	5.02	4	2.3	5.3	391	<0.1	0.5	<0.1	161	4.12
N253602	Rock Pulp	0.06	I.S.	390.6	1887.3	25.6	59	12.9	15.8	10.6	741	3.66	14	1.0	1.9	416	0.6	35.8	1.8	84	2.85
N253603	Drill Core	4.28	3	2.3	56.8	6.5	66	<0.1	9.8	18.9	1118	4.76	2	2.3	5.1	362	0.2	0.6	<0.1	154	3.54
N253604	Drill Core	4.23	2	2.3	140.9	4.9	60	0.1	9.0	18.0	1042	4.67	4	2.2	5.2	324	<0.1	0.5	<0.1	154	3.43
N253605	Drill Core	4.40	2	2.8	67.2	5.5	51	<0.1	8.9	17.8	1012	4.58	5	1.6	4.2	282	0.2	0.5	<0.1	155	3.12
N253606	Drill Core	4.46	<2	2.4	74.3	5.1	58	<0.1	8.2	18.6	1089	4.72	4	1.3	3.4	284	0.1	0.7	<0.1	160	3.42
N253607	Drill Core	4.44	<2	2.3	62.6	4.5	49	<0.1	8.8	16.0	1112	4.47	4	1.6	3.6	253	0.2	0.9	<0.1	150	3.06
N253608	Drill Core	4.40	3	2.5	60.8	5.6	54	<0.1	8.5	16.3	825	4.35	5	2.1	4.9	223	<0.1	0.6	<0.1	142	2.86
N253609	Drill Core	4.25	<2	2.2	61.8	4.8	63	<0.1	8.5	16.6	980	4.40	5	1.7	4.2	260	<0.1	0.7	<0.1	144	3.45
N253610	Rock	2.12	<2	<0.1	2.2	0.5	2	<0.1	0.7	0.5	115	0.14	<1	0.1	0.1	78	0.1	<0.1	<0.1	1	33.76
N253611	Drill Core	4.04	4	4.3	65.7	6.2	83	0.1	9.5	21.7	1076	4.90	4	2.1	4.9	245	<0.1	0.6	<0.1	155	2.87
N253612	Drill Core	4.65	9	5.7	102.4	30.8	143	1.0	7.9	15.8	1386	4.39	3	2.1	4.7	339	0.6	0.7	0.2	140	3.02



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253584	Drill Core	0.065	18.0	11	1.60	185	0.397	8.30	2.463	2.46	0.6	110.8	39	1.1	25.2	7.8	0.5	<1	20	6.2	0.8	
N253585	Drill Core	0.070	16.1	11	1.49	69	0.409	8.10	2.019	2.55	0.6	115.2	35	1.1	22.1	7.8	0.5	<1	19	9.8	1.3	
N253586	Drill Core	0.069	17.2	12	1.66	56	0.418	8.39	1.976	2.61	0.6	123.1	39	1.2	24.8	8.0	0.6	1	21	11.3	1.6	
N253656	Drill Core	0.067	20.4	11	1.85	139	0.395	8.18	2.276	2.68	0.5	123.5	42	1.3	26.4	7.8	0.5	<1	20	10.9	1.0	
N253587	Drill Core	0.072	19.6	11	1.56	788	0.398	7.88	2.661	2.39	0.6	118.2	41	1.1	24.6	7.9	0.5	<1	20	5.2	0.2	
N253588	Drill Core	0.069	20.2	12	1.67	864	0.400	8.25	2.686	2.49	0.5	117.8	41	1.3	24.3	7.6	0.5	<1	20	6.5	0.3	
N253589	Rock Pulp	0.066	15.2	32	0.74	329	0.133	5.75	1.626	1.59	5.4	21.0	22	2.9	8.1	1.8	<0.1	<1	5	12.5	0.6	
N253590	Drill Core	0.071	17.7	11	1.68	855	0.391	8.26	2.837	2.47	0.5	109.9	39	1.6	24.1	7.9	0.5	<1	20	8.5	0.4	
N253591	Drill Core	0.076	21.1	12	1.63	883	0.404	8.26	2.656	2.67	0.5	119.2	45	1.1	26.3	8.1	0.5	<1	21	9.9	0.2	
N253592	Drill Core	0.070	20.4	12	1.67	903	0.408	8.26	2.479	2.71	0.5	124.5	43	1.2	25.9	8.3	0.6	<1	23	5.4	0.1	
N253593	Drill Core	0.069	19.1	12	1.70	818	0.412	8.27	2.551	2.44	0.5	128.0	41	1.2	24.5	8.2	0.6	<1	21	6.1	0.3	
N253594	Drill Core	0.071	20.5	12	1.66	521	0.419	8.22	2.823	2.84	0.7	130.3	43	1.4	25.6	8.2	0.5	<1	22	8.8	0.7	
N253595	Rock	0.007	1.5	1	2.14	15	0.005	0.11	0.037	0.05	<0.1	2.2	1	0.1	2.2	0.3	<0.1	<1	<1	0.8	<0.1	
N253596	Drill Core	0.071	20.9	11	1.64	831	0.386	8.15	2.910	2.85	0.7	126.1	44	1.2	25.9	7.9	0.5	<1	21	5.7	0.5	
N253597	Drill Core	0.068	21.6	11	1.68	160	0.376	8.03	2.904	2.92	0.6	127.5	47	1.1	26.4	7.8	0.5	<1	22	9.5	0.8	
N253598	Drill Core	0.072	13.4	14	1.57	467	0.469	8.14	2.704	2.45	0.7	146.4	29	1.6	24.9	8.6	0.6	1	20	9.5	0.6	
N253599	Drill Core	0.070	12.9	12	1.59	768	0.466	7.81	2.853	2.23	0.7	142.8	29	1.3	24.9	8.7	0.6	1	19	7.3	0.3	
N253600	Drill Core	0.068	14.9	13	1.61	585	0.458	8.16	2.809	2.70	0.6	133.9	33	1.2	25.2	8.8	0.6	<1	18	7.3	0.5	
N253601	Drill Core	0.070	15.6	19	1.74	817	0.466	8.45	2.626	2.34	0.7	129.6	34	1.3	25.9	8.6	0.6	<1	20	7.7	0.2	
N253602	Rock Pulp	0.050	9.2	19	0.85	738	0.208	7.12	2.160	1.97	1.7	9.8	20	2.9	12.3	2.5	0.2	1	9	9.1	0.3	
N253603	Drill Core	0.073	15.5	13	1.59	92	0.452	8.32	2.651	2.62	0.5	134.6	34	1.8	25.9	8.6	0.6	1	19	7.3	0.9	
N253604	Drill Core	0.069	14.8	14	1.57	84	0.452	8.02	2.513	2.47	0.6	135.4	34	1.5	25.9	8.8	0.6	1	19	8.2	1.1	
N253605	Drill Core	0.067	11.6	13	1.56	401	0.453	7.13	2.645	2.37	0.8	141.5	27	1.3	23.4	9.1	0.6	<1	18	7.6	1.0	
N253606	Drill Core	0.071	9.0	12	1.52	732	0.460	6.93	2.697	2.16	0.8	131.1	22	1.3	20.8	8.4	0.6	<1	18	7.2	0.6	
N253607	Drill Core	0.067	9.8	12	1.47	706	0.442	7.00	3.022	2.04	0.8	136.6	23	1.2	20.4	8.6	0.5	<1	16	8.5	0.1	
N253608	Drill Core	0.065	13.4	13	1.49	182	0.427	7.43	2.759	2.23	0.5	135.7	29	1.1	23.0	8.1	0.5	<1	18	9.5	0.8	
N253609	Drill Core	0.068	11.7	13	1.45	288	0.422	7.36	2.612	2.10	0.5	128.7	27	1.4	21.5	7.6	0.5	<1	18	7.0	0.8	
N253610	Rock	0.005	1.4	2	1.84	15	0.008	0.07	0.031	0.02	<0.1	3.4	1	<0.1	2.3	0.2	<0.1	<1	<1	0.9	<0.1	
N253611	Drill Core	0.075	14.4	14	1.72	46	0.458	7.89	2.776	2.03	0.6	145.5	32	1.7	25.4	8.6	0.5	1	19	9.3	1.8	
N253612	Drill Core	0.068	14.8	12	1.53	107	0.429	7.53	2.326	2.09	0.6	131.8	31	1.2	23.9	7.8	0.5	<1	18	9.8	0.8	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253584	Drill Core	71.6	3.1	<0.05	<0.005	2	0.7	<0.5
N253585	Drill Core	79.9	3.1	<0.05	<0.005	4	0.6	<0.5
N253586	Drill Core	79.3	3.5	0.11	<0.005	6	0.8	0.6
N253656	Drill Core	85.7	3.3	<0.05	<0.005	2	0.6	<0.5
N253587	Drill Core	74.5	3.3	0.06	<0.005	<1	<0.5	<0.5
N253588	Drill Core	79.9	3.3	<0.05	<0.005	<1	<0.5	<0.5
N253589	Rock Pulp	35.5	0.7	0.18	0.382	3	3.9	<0.5
N253590	Drill Core	76.4	3.1	0.05	<0.005	<1	<0.5	<0.5
N253591	Drill Core	91.0	3.4	<0.05	<0.005	<1	<0.5	<0.5
N253592	Drill Core	91.7	3.6	0.07	<0.005	<1	<0.5	<0.5
N253593	Drill Core	74.9	3.7	0.05	<0.005	<1	0.7	<0.5
N253594	Drill Core	89.6	3.5	0.05	<0.005	<1	<0.5	<0.5
N253595	Rock	1.4	<0.1	<0.05	<0.005	<1	5.9	<0.5
N253596	Drill Core	83.1	3.6	0.07	<0.005	<1	<0.5	<0.5
N253597	Drill Core	85.1	3.5	<0.05	<0.005	<1	<0.5	<0.5
N253598	Drill Core	66.0	4.0	0.07	<0.005	2	0.6	0.5
N253599	Drill Core	53.5	3.9	0.05	<0.005	<1	<0.5	<0.5
N253600	Drill Core	70.5	3.9	0.08	<0.005	<1	<0.5	<0.5
N253601	Drill Core	67.2	3.9	<0.05	<0.005	<1	0.6	<0.5
N253602	Rock Pulp	38.7	0.6	<0.05	0.416	<1	1.2	<0.5
N253603	Drill Core	70.9	3.7	<0.05	<0.005	2	<0.5	<0.5
N253604	Drill Core	69.4	3.7	<0.05	<0.005	2	0.6	<0.5
N253605	Drill Core	43.7	3.7	0.11	<0.005	2	1.0	<0.5
N253606	Drill Core	33.2	3.7	0.08	<0.005	<1	<0.5	<0.5
N253607	Drill Core	33.2	3.7	<0.05	<0.005	<1	0.5	<0.5
N253608	Drill Core	61.9	3.7	<0.05	<0.005	2	0.7	<0.5
N253609	Drill Core	53.7	3.4	<0.05	<0.005	1	0.6	<0.5
N253610	Rock	0.4	<0.1	<0.05	<0.005	<1	5.1	<0.5
N253611	Drill Core	57.9	3.7	<0.05	<0.005	6	0.6	<0.5
N253612	Drill Core	62.6	3.5	0.07	<0.005	3	1.2	<0.5



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253613	Drill Core	3.88	3	9.3	109.9	6.8	83	0.2	8.7	17.6	1286	4.72	3	1.8	4.2	297	0.1	0.6	0.2	146	3.51
N253614	Drill Core	4.51	5	7.5	84.6	8.5	92	0.2	8.6	17.5	1221	4.72	5	1.9	4.5	244	0.3	0.6	0.2	149	2.80
N253615	Drill Core	4.06	5	3.3	76.7	6.3	77	0.2	9.2	17.3	1189	4.66	7	2.0	4.6	249	0.2	0.5	0.1	147	3.07
N253616	Rock	1.87	<2	<0.1	1.1	0.5	2	<0.1	1.5	0.6	121	0.13	<1	0.2	0.2	80	<0.1	<0.1	<0.1	<1	35.20
N253617	Drill Core	4.76	4	2.8	81.9	7.6	83	0.1	8.8	17.6	1170	4.61	8	1.9	4.7	290	0.3	0.4	<0.1	146	3.63
N253618	Drill Core	4.59	<2	1.7	60.1	5.6	66	<0.1	8.7	17.8	1110	4.69	3	2.0	4.7	314	<0.1	0.5	<0.1	150	3.33
N253619	Drill Core	4.81	<2	2.3	65.3	5.2	70	0.1	8.9	19.2	1126	4.76	3	2.0	4.9	338	0.2	0.3	<0.1	153	3.33
N253620	Drill Core	4.02	6	11.9	85.2	5.8	86	0.3	9.8	18.4	932	4.61	9	2.0	4.5	165	0.2	0.5	0.4	146	3.10
N253621	Drill Core	4.78	6	14.8	65.2	6.6	71	0.2	8.5	18.5	890	4.55	10	2.1	4.6	252	0.2	0.5	0.5	142	3.40
N253622	Drill Core	4.18	3	3.0	289.2	7.6	83	0.1	7.8	18.2	1141	4.74	3	1.9	4.5	301	0.2	0.4	0.1	155	3.30
N253623	Rock Pulp	0.06	580	343.2	3933.3	25.9	108	15.1	25.6	70.5	1479	4.75	2049	2.3	1.5	438	1.0	44.8	12.7	60	6.05
N253624	Drill Core	4.59	3	6.4	324.3	9.4	124	0.3	9.3	20.3	1379	5.10	3	2.1	5.0	236	0.3	0.4	0.3	162	2.94
N253625	Drill Core	4.86	2	2.3	80.6	7.8	102	0.3	9.0	20.3	1352	4.99	3	1.9	4.5	303	<0.1	0.5	<0.1	171	2.93
N253626	Drill Core	2.37	<2	2.4	74.0	7.0	109	0.1	7.7	20.2	1104	4.61	13	1.9	4.8	252	0.2	0.6	<0.1	151	4.21
N253627	Drill Core	4.16	4	2.0	65.3	7.2	109	0.1	7.6	19.9	1030	4.68	8	2.0	5.2	255	0.2	0.6	<0.1	152	4.06
N253628	Drill Core	4.29	5	3.8	92.6	16.0	161	0.1	8.3	19.2	1308	4.63	15	2.2	5.5	269	0.6	0.9	0.8	150	4.60
N253629	Drill Core	4.62	2	2.7	75.3	7.4	119	0.1	7.4	18.5	1291	4.73	4	2.3	5.0	343	0.2	0.5	<0.1	153	3.38
N253630	Drill Core	4.53	4	3.4	74.2	6.4	100	0.1	7.7	17.6	1117	4.54	7	2.1	5.0	303	0.2	0.5	<0.1	151	4.20
N253631	Rock Pulp	0.06	175	392.3	1893.0	27.3	62	13.1	15.0	10.2	713	3.70	14	1.1	2.1	457	0.6	34.9	1.9	84	2.88
N253632	Drill Core	4.15	2	2.1	63.9	7.2	100	<0.1	7.9	17.8	1132	4.68	3	2.3	5.3	307	<0.1	0.6	<0.1	156	3.27
N253633	Drill Core	4.17	<2	2.1	67.9	5.9	76	<0.1	7.4	16.4	1237	4.70	4	2.4	5.5	287	0.2	0.5	<0.1	159	2.94
N253634	Drill Core	4.05	3	2.0	63.9	7.3	73	<0.1	7.5	17.3	1043	4.58	4	2.5	5.9	329	<0.1	0.4	<0.1	148	3.18
N253635	Drill Core	4.56	3	3.0	84.8	8.0	83	0.1	7.9	18.4	1279	4.69	4	2.5	5.4	329	0.1	0.6	<0.1	156	2.87
N253636	Drill Core	4.41	3	4.3	84.6	8.3	80	0.2	7.4	17.4	1113	4.55	4	2.5	5.9	265	<0.1	0.6	0.1	151	2.97
N253637	Rock	0.88	<2	<0.1	1.3	0.5	2	<0.1	<0.1	0.6	121	0.10	<1	<0.1	<0.1	78	<0.1	<0.1	<0.1	<1	32.07
N253638	Drill Core	4.47	<2	2.9	61.1	6.6	86	0.1	8.1	19.2	1198	4.83	2	2.7	6.0	326	<0.1	0.4	<0.1	159	2.69
N253639	Drill Core	4.46	2	3.5	68.3	7.7	80	0.1	7.3	18.0	1118	4.70	3	2.5	5.7	275	0.2	0.5	<0.1	150	3.16
N253640	Drill Core	4.61	<2	2.5	204.4	6.4	73	0.1	7.4	16.6	1102	4.35	3	2.3	5.2	304	0.2	0.3	<0.1	145	2.97
N253641	Drill Core	3.42	4	2.8	52.4	5.9	80	0.1	7.1	17.8	945	4.31	12	2.3	5.6	199	0.1	0.5	<0.1	140	4.63
N253642	Drill Core	4.64	3	2.9	54.4	5.0	71	<0.1	8.0	17.0	957	4.57	5	2.7	6.1	318	<0.1	0.4	<0.1	147	2.93



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253613	Drill Core	0.067	12.2	14	1.57	275	0.429	7.73	2.273	2.28	0.6	133.9	27	1.3	23.2	8.0	0.6	<1	17	12.1	0.9	
N253614	Drill Core	0.069	13.2	14	1.62	54	0.430	7.38	2.426	2.54	0.6	130.6	30	1.4	23.4	8.1	0.5	<1	18	16.6	1.6	
N253615	Drill Core	0.064	13.5	14	1.50	98	0.435	7.47	2.453	2.76	0.6	118.3	31	1.5	24.6	8.5	0.6	<1	18	16.0	1.1	
N253616	Rock	0.007	1.6	2	1.91	36	0.006	0.32	0.139	0.14	<0.1	4.4	1	<0.1	2.6	0.5	<0.1	<1	<1	1.0	<0.1	
N253617	Drill Core	0.071	13.6	14	1.50	129	0.431	7.81	2.444	2.46	0.5	111.1	30	1.5	24.5	8.1	0.5	<1	18	10.9	1.0	
N253618	Drill Core	0.069	13.5	14	1.57	66	0.447	7.78	2.683	2.52	0.5	130.2	32	1.3	25.1	8.3	0.5	1	19	8.9	1.2	
N253619	Drill Core	0.075	14.3	14	1.58	57	0.452	8.01	2.530	2.61	0.5	129.4	32	1.2	24.6	8.4	0.5	1	19	7.8	1.3	
N253620	Drill Core	0.062	12.9	16	1.38	29	0.390	7.30	1.419	2.29	0.8	111.5	29	1.3	26.1	7.0	0.4	<1	18	16.6	2.2	
N253621	Drill Core	0.064	13.9	13	1.23	30	0.395	7.70	1.447	2.39	0.6	115.4	30	1.6	30.8	7.5	0.5	1	19	12.7	2.3	
N253622	Drill Core	0.064	12.3	12	1.69	44	0.417	8.08	2.094	2.66	0.5	111.7	29	1.4	23.0	7.4	0.5	<1	19	10.8	1.8	
N253623	Rock Pulp	0.064	15.7	32	0.76	187	0.151	5.93	1.704	1.78	4.0	21.6	24	3.0	9.2	1.7	0.1	<1	6	12.7	0.6	
N253624	Drill Core	0.075	14.1	15	1.73	36	0.464	8.03	2.505	2.33	0.6	122.1	32	1.2	24.8	8.0	0.5	<1	20	9.9	2.2	
N253625	Drill Core	0.072	12.0	15	1.74	53	0.460	7.85	2.666	2.47	0.6	135.8	29	1.6	24.2	8.1	0.5	<1	21	7.8	1.6	
N253626	Drill Core	0.070	12.6	12	1.36	44	0.435	7.80	2.282	1.93	0.7	132.3	30	1.6	24.2	8.1	0.5	<1	19	10.0	1.8	
N253627	Drill Core	0.065	13.3	11	1.38	57	0.442	7.89	2.151	2.43	0.7	141.5	30	1.5	24.1	8.4	0.5	<1	19	10.1	1.6	
N253628	Drill Core	0.073	17.0	11	1.39	47	0.457	7.90	1.828	2.15	0.8	139.9	37	1.4	26.9	8.7	0.6	<1	20	12.4	1.8	
N253629	Drill Core	0.067	14.1	11	1.50	76	0.437	7.98	2.502	2.78	0.7	142.3	31	1.3	24.8	8.3	0.6	<1	19	11.4	1.3	
N253630	Drill Core	0.067	15.2	11	1.49	55	0.431	7.78	2.131	2.03	0.8	132.9	33	1.5	26.2	8.0	0.5	<1	19	9.9	1.8	
N253631	Rock Pulp	0.052	8.7	19	0.86	750	0.207	7.22	2.201	1.91	1.7	10.6	19	2.7	12.1	2.7	0.2	<1	9	8.7	0.3	
N253632	Drill Core	0.068	14.3	11	1.62	48	0.438	8.03	2.425	2.36	0.7	141.4	33	1.3	26.0	8.5	0.5	<1	20	7.2	1.9	
N253633	Drill Core	0.073	17.4	11	1.63	246	0.438	7.66	2.535	2.64	0.7	141.9	36	1.6	27.0	8.4	0.5	1	20	7.0	0.9	
N253634	Drill Core	0.071	15.8	12	1.51	84	0.431	7.51	2.277	2.53	0.6	140.4	34	1.5	24.9	8.6	0.6	<1	19	9.5	1.7	
N253635	Drill Core	0.070	14.9	12	1.60	121	0.448	7.34	2.665	2.47	0.6	147.3	34	1.1	25.3	8.7	0.6	<1	20	9.6	1.3	
N253636	Drill Core	0.070	16.1	12	1.52	77	0.425	7.52	2.382	2.07	0.7	142.9	35	1.4	25.8	8.3	0.6	<1	19	10.6	1.9	
N253637	Rock	0.007	1.2	2	2.44	11	0.006	0.05	0.034	0.01	<0.1	1.7	<1	<0.1	2.3	0.2	<0.1	<1	<1	0.7	<0.1	
N253638	Drill Core	0.070	15.4	13	1.65	55	0.465	7.76	2.579	2.48	0.5	154.8	36	1.4	27.8	8.7	0.6	1	20	10.1	2.4	
N253639	Drill Core	0.073	18.1	12	1.56	49	0.445	7.70	2.442	2.10	0.5	143.0	38	1.3	27.3	8.6	0.6	<1	19	10.3	2.3	
N253640	Drill Core	0.063	13.9	12	1.49	80	0.413	7.55	2.358	2.45	0.4	137.6	31	1.2	24.7	8.3	0.5	<1	18	8.0	1.7	
N253641	Drill Core	0.064	16.3	11	1.35	291	0.417	7.61	1.985	1.70	0.6	125.8	35	1.4	23.9	8.2	0.5	1	17	10.9	1.4	
N253642	Drill Core	0.067	17.4	12	1.49	145	0.428	7.68	2.615	2.67	0.8	146.6	38	1.3	27.0	8.6	0.6	<1	18	10.6	1.1	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253613	Drill Core	56.9	3.7	<0.05	0.007	3	0.7	0.5
N253614	Drill Core	65.6	3.6	<0.05	0.005	4	1.0	0.6
N253615	Drill Core	79.3	3.4	0.09	<0.005	3	0.8	0.7
N253616	Rock	3.7	0.2	<0.05	<0.005	<1	3.1	<0.5
N253617	Drill Core	67.9	3.0	<0.05	<0.005	2	0.6	0.5
N253618	Drill Core	69.6	3.4	0.07	<0.005	3	0.5	<0.5
N253619	Drill Core	71.8	3.6	<0.05	<0.005	4	0.6	<0.5
N253620	Drill Core	79.1	3.0	0.06	<0.005	10	1.6	0.6
N253621	Drill Core	80.6	3.1	<0.05	0.007	8	1.3	0.5
N253622	Drill Core	68.2	3.2	<0.05	<0.005	5	1.0	<0.5
N253623	Rock Pulp	36.4	0.8	0.14	0.353	3	2.8	<0.5
N253624	Drill Core	64.5	3.4	<0.05	<0.005	5	1.6	<0.5
N253625	Drill Core	69.6	3.7	<0.05	<0.005	4	0.9	<0.5
N253626	Drill Core	53.1	3.8	<0.05	<0.005	4	1.2	<0.5
N253627	Drill Core	60.7	3.9	0.06	<0.005	3	0.8	<0.5
N253628	Drill Core	66.5	4.2	0.07	<0.005	3	1.1	0.5
N253629	Drill Core	80.0	4.0	0.07	<0.005	3	0.5	0.6
N253630	Drill Core	60.0	3.9	<0.05	<0.005	3	1.0	<0.5
N253631	Rock Pulp	38.3	0.6	0.12	0.420	<1	1.2	<0.5
N253632	Drill Core	60.5	4.1	0.08	<0.005	4	0.8	<0.5
N253633	Drill Core	77.9	4.1	0.10	<0.005	2	0.8	0.5
N253634	Drill Core	73.9	4.1	0.06	<0.005	4	0.8	0.6
N253635	Drill Core	65.9	4.4	0.09	<0.005	2	0.7	<0.5
N253636	Drill Core	57.8	4.1	<0.05	<0.005	5	1.2	<0.5
N253637	Rock	0.3	<0.1	<0.05	<0.005	<1	5.2	<0.5
N253638	Drill Core	70.2	4.4	0.06	<0.005	4	0.8	0.5
N253639	Drill Core	60.1	4.2	0.08	<0.005	5	1.1	<0.5
N253640	Drill Core	66.9	3.9	<0.05	<0.005	3	0.7	<0.5
N253641	Drill Core	38.9	3.8	0.07	<0.005	4	0.8	<0.5
N253642	Drill Core	78.4	4.2	<0.05	<0.005	3	<0.5	0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253643	Rock Pulp	0.06	613	320.4	3786.6	28.9	112	15.0	24.4	68.8	1426	4.58	2028	2.5	1.5	439	1.1	45.2	15.1	56	5.74
N253644	Drill Core	4.58	3	2.5	57.4	6.4	106	<0.1	8.6	18.5	1045	4.50	6	2.4	5.7	279	0.4	0.6	<0.1	145	3.53
N253645	Drill Core	4.63	<2	3.0	62.8	4.8	75	<0.1	8.7	17.5	1068	4.57	4	2.3	5.6	298	<0.1	0.6	<0.1	150	3.49
N253646	Drill Core	4.56	<2	2.3	69.8	4.8	57	<0.1	7.4	16.7	1043	4.47	3	2.5	5.9	289	<0.1	0.4	<0.1	140	3.16
N253647	Drill Core	4.29	<2	2.9	51.6	4.1	48	<0.1	7.5	17.5	955	4.52	3	2.6	6.0	289	<0.1	0.4	<0.1	144	3.00
N253648	Drill Core	4.50	<2	3.0	44.7	4.1	48	<0.1	8.1	17.2	968	4.46	4	2.5	5.9	356	<0.1	0.4	<0.1	146	3.07
N253649	Drill Core	4.65	<2	3.2	58.1	5.2	47	<0.1	8.3	17.0	920	4.55	2	2.6	5.7	436	<0.1	0.3	<0.1	148	3.05
N253650	Drill Core	4.65	2	3.5	120.3	5.1	55	<0.1	8.4	18.2	932	4.65	2	2.6	5.7	409	<0.1	0.4	0.1	150	3.21
N253651	Drill Core	4.45	<2	3.9	59.1	6.2	60	<0.1	9.1	16.5	1092	4.71	2	2.7	5.8	439	0.1	0.5	<0.1	152	3.44
N253652	Drill Core	4.76	<2	3.2	43.1	4.8	48	<0.1	8.9	18.5	913	4.82	<1	2.7	5.9	435	0.1	0.4	0.1	155	2.95
N253653	Rock	1.21	<2	<0.1	0.7	0.4	2	<0.1	0.8	0.5	110	0.08	<1	<0.1	<0.1	90	<0.1	<0.1	<0.1	<1	34.81
N253654	Drill Core	4.42	<2	3.4	46.4	12.3	54	<0.1	7.4	15.9	851	4.63	2	2.6	6.3	478	<0.1	0.4	<0.1	152	3.46
N253655	Drill Core	4.86	2	3.0	30.3	9.7	54	<0.1	8.1	17.3	882	4.68	3	2.3	5.2	457	<0.1	0.4	<0.1	157	3.50



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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
N253643	Rock Pulp	0.062	16.2	32	0.72	344	0.143	5.63	1.656	1.63	4.4	20.4	23	2.9	8.8	1.8	0.1	<1	6	11.5	0.5
N253644	Drill Core	0.064	16.3	13	1.46	786	0.420	7.43	2.635	2.28	0.5	131.1	36	1.2	26.1	8.9	0.6	1	18	9.0	0.3
N253645	Drill Core	0.067	15.3	12	1.54	808	0.433	7.65	2.603	2.34	0.6	132.2	34	1.5	25.9	8.5	0.6	<1	19	7.2	0.1
N253646	Drill Core	0.068	15.3	11	1.48	102	0.430	7.55	2.633	2.37	0.5	131.0	34	1.5	26.0	8.9	0.6	<1	18	5.6	1.3
N253647	Drill Core	0.068	17.5	13	1.48	61	0.429	7.64	2.658	2.23	0.5	132.6	36	1.5	25.8	8.7	0.6	<1	19	7.2	1.8
N253648	Drill Core	0.068	17.3	12	1.57	120	0.446	7.80	2.579	1.98	0.6	136.5	38	1.3	26.2	8.7	0.6	1	19	8.3	1.3
N253649	Drill Core	0.068	14.8	12	1.53	111	0.431	7.81	2.606	2.16	0.6	143.0	32	1.6	25.7	8.3	0.6	<1	19	7.1	1.4
N253650	Drill Core	0.067	15.1	12	1.58	138	0.438	7.96	2.393	2.08	0.7	150.4	35	1.6	26.5	8.5	0.6	1	20	7.3	1.3
N253651	Drill Core	0.070	15.3	12	1.58	346	0.450	7.86	2.544	2.06	0.7	148.7	34	1.5	26.4	9.1	0.6	<1	19	6.2	0.8
N253652	Drill Core	0.073	16.1	13	1.64	125	0.433	8.22	2.433	2.21	0.5	148.9	36	1.8	25.5	8.5	0.6	<1	20	6.8	1.4
N253653	Rock	0.005	1.6	2	1.92	15	0.006	0.03	0.022	0.02	0.1	1.4	1	<0.1	2.5	0.2	<0.1	<1	<1	0.8	<0.1
N253654	Drill Core	0.069	19.0	12	1.63	116	0.442	8.20	2.571	1.97	0.5	146.6	39	1.4	28.0	8.6	0.5	<1	20	6.0	1.4
N253655	Drill Core	0.067	14.5	12	1.64	109	0.435	7.75	2.410	1.89	0.4	138.3	32	1.4	25.2	8.0	0.5	<1	19	6.5	1.4



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253643	Rock Pulp	35.0	0.8	0.17	0.379	5	2.9	<0.5
N253644	Drill Core	63.7	3.8	0.07	<0.005	2	<0.5	<0.5
N253645	Drill Core	64.9	3.8	<0.05	<0.005	<1	<0.5	<0.5
N253646	Drill Core	64.1	3.8	<0.05	<0.005	3	0.8	<0.5
N253647	Drill Core	60.8	3.8	0.08	<0.005	3	0.7	<0.5
N253648	Drill Core	56.2	4.0	0.09	<0.005	1	0.8	<0.5
N253649	Drill Core	59.5	4.4	<0.05	<0.005	3	0.6	<0.5
N253650	Drill Core	61.9	4.3	0.06	<0.005	4	0.6	<0.5
N253651	Drill Core	51.8	4.5	<0.05	<0.005	2	0.6	<0.5
N253652	Drill Core	61.9	4.9	<0.05	<0.005	4	0.6	<0.5
N253653	Rock	0.5	<0.1	<0.05	<0.005	<1	8.1	<0.5
N253654	Drill Core	54.2	4.1	0.07	<0.005	4	0.8	<0.5
N253655	Drill Core	47.2	4.0	0.08	<0.005	3	0.9	<0.5



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QUALITY CONTROL REPORT

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N253467	Drill Core	7.34	5	43.8	111.2	11.2	90	<0.1	7.7	16.4	1604	4.45	<1	1.1	2.7	274	0.4	0.3	0.3	137	3.10
REP N253467	QC	5																			
N253489	Drill Core	7.21	6	5.6	83.8	14.2	118	<0.1	10.5	26.2	1905	6.88	<1	0.7	1.1	211	0.2	0.4	0.3	188	0.85
REP N253489	QC	7.0 84.7 12.7 108 <0.1 10.2 25.5 1895 6.77 <1 0.8 1.3 217 0.2 0.3 0.3 184 0.83																			
N253502	Drill Core	7.76	4	2.8	52.9	20.6	103	<0.1	4.9	11.2	785	4.21	<1	3.1	6.6	157	0.5	0.2	0.2	74	0.87
REP N253502	QC	4																			
N253503	Drill Core	7.08	2	2.4	69.5	20.5	66	<0.1	3.2	8.5	504	3.39	<1	3.6	8.0	101	0.4	0.2	0.3	48	0.50
REP N253503	QC	2.4 72.0 20.6 66 <0.1 3.8 9.2 498 3.41 <1 3.7 7.8 102 0.3 0.2 0.3 48 0.49																			
N253538	Drill Core	7.82	2	1.1	38.4	4.4	60	<0.1	4.4	13.8	1259	4.62	2	1.8	4.0	362	<0.1	0.1	0.2	144	2.34
REP N253538	QC	2																			
N253539	Rock Pulp	0.06	679	326.9	3795.0	26.3	104	14.2	24.7	66.4	1421	4.56	2003	2.2	1.3	429	1.2	38.7	14.0	57	5.78
REP N253539	QC	342.4 3826.5 26.6 105 14.8 25.9 66.4 1450 4.60 2094 2.1 1.4 427 1.0 39.3 13.7 59 5.86																			
N253574	Drill Core	3.81	<2	2.9	152.0	6.8	70	0.3	8.2	15.9	1156	4.59	3	2.6	5.9	251	0.2	0.5	<0.1	157	3.11
REP N253574	QC	<2																			
N253575	Rock Pulp	0.06	217	379.0	1864.0	24.5	55	12.2	14.0	10.2	713	3.58	12	1.2	2.6	428	0.6	30.1	1.8	83	2.79
REP N253575	QC	387.7 1881.5 24.0 55 11.9 15.0 9.8 713 3.57 13 1.2 2.6 430 0.4 29.4 1.8 84 2.79																			
N253603	Drill Core	4.28	3	2.3	56.8	6.5	66	<0.1	9.8	18.9	1118	4.76	2	2.3	5.1	362	0.2	0.6	<0.1	154	3.54
REP N253603	QC	2																			
N253605	Drill Core	4.40	2	2.8	67.2	5.5	51	<0.1	8.9	17.8	1012	4.58	5	1.6	4.2	282	0.2	0.5	<0.1	155	3.12
REP N253605	QC	3																			
N253640	Drill Core	4.61	<2	2.5	204.4	6.4	73	0.1	7.4	16.6	1102	4.35	3	2.3	5.2	304	0.2	0.3	<0.1	145	2.97
REP N253640	QC	2 2.6 203.8 6.4 72 0.1 7.3 16.7 1100 4.37 2 2.3 5.1 311 0.1 0.4 <0.1 141 2.96																			
N253654	Drill Core	4.42	<2	3.4	46.4	12.3	54	<0.1	7.4	15.9	851	4.63	2	2.6	6.3	478	<0.1	0.4	<0.1	152	3.46
REP N253654	QC	2																			
Core Reject Duplicates																					
N253477	Drill Core	3.63	3	15.6	65.8	20.0	79	0.3	7.5	8.4	640	3.95	<1	0.7	1.4	45	0.3	2.4	0.2	87	0.29
DUP N253477	QC	3 14.8 65.9 20.1 88 0.3 7.1 8.5 646 4.06 <1 0.7 1.4 46 0.3 2.4 0.2 92 0.31																			
N253513	Drill Core	7.79	<2	1.6	57.6	13.3	90	<0.1	5.8	15.4	808	4.47	<1	2.8	5.5	343	0.6	0.2	0.3	126	2.10



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N253467	Drill Core	0.067	8.6	10	1.82	24	0.286	7.35	2.449	1.15	1.6	86.9	21	1.3	17.1	4.0	0.3	<1	14	11.3	5.6
REP N253467	QC																				
N253489	Drill Core	0.107	3.4	9	3.06	16	0.380	7.48	2.719	1.24	0.3	41.1	8	1.1	11.5	3.1	0.2	<1	18	14.2	6.1
REP N253489	QC	0.109	3.8	9	3.08	18	0.374	7.65	2.695	1.25	0.2	40.6	9	0.9	12.4	3.0	0.2	1	17	14.7	6.0
N253502	Drill Core	0.069	16.2	10	1.31	22	0.172	7.94	2.577	2.36	0.2	108.6	39	1.0	24.1	3.2	0.2	1	14	9.8	4.0
REP N253502	QC																				
N253503	Drill Core	0.059	17.6	5	1.08	26	0.122	7.52	2.801	2.50	0.2	126.1	43	1.3	27.5	3.5	0.3	<1	11	8.4	3.7
REP N253503	QC	0.065	19.2	5	1.07	24	0.121	7.43	2.777	2.52	0.2	124.4	44	1.3	27.6	3.6	0.3	1	11	8.0	3.7
N253538	Drill Core	0.091	16.3	5	1.69	24	0.344	8.23	2.742	1.50	0.3	88.4	35	1.0	20.0	5.3	0.4	<1	16	10.4	3.2
REP N253538	QC																				
N253539	Rock Pulp	0.060	14.3	31	0.73	337	0.140	5.68	1.651	1.56	4.3	19.9	22	2.8	7.6	1.6	<0.1	<1	5	10.7	0.6
REP N253539	QC	0.061	14.6	33	0.74	363	0.137	5.73	1.660	1.59	3.6	20.8	22	2.9	7.8	1.7	0.1	<1	5	11.4	0.6
N253574	Drill Core	0.071	19.7	12	1.65	88	0.423	7.80	2.039	2.53	0.5	99.8	43	1.2	24.8	7.5	0.5	<1	20	10.0	1.1
REP N253574	QC																				
N253575	Rock Pulp	0.049	11.0	18	0.84	748	0.178	7.01	2.133	1.84	1.6	9.2	24	2.4	11.8	2.4	0.2	<1	9	7.6	0.3
REP N253575	QC	0.053	11.5	18	0.85	733	0.186	7.23	2.197	1.83	1.6	8.8	25	2.5	11.8	2.4	0.2	<1	9	7.4	0.3
N253603	Drill Core	0.073	15.5	13	1.59	92	0.452	8.32	2.651	2.62	0.5	134.6	34	1.8	25.9	8.6	0.6	1	19	7.3	0.9
REP N253603	QC																				
N253605	Drill Core	0.067	11.6	13	1.56	401	0.453	7.13	2.645	2.37	0.8	141.5	27	1.3	23.4	9.1	0.6	<1	18	7.6	1.0
REP N253605	QC																				
N253640	Drill Core	0.063	13.9	12	1.49	80	0.413	7.55	2.358	2.45	0.4	137.6	31	1.2	24.7	8.3	0.5	<1	18	8.0	1.7
REP N253640	QC	0.062	15.0	11	1.48	68	0.416	7.54	2.357	2.44	0.4	135.4	32	1.2	25.0	8.3	0.5	<1	18	8.8	1.7
N253654	Drill Core	0.069	19.0	12	1.63	116	0.442	8.20	2.571	1.97	0.5	146.6	39	1.4	28.0	8.6	0.5	<1	20	6.0	1.4
REP N253654	QC																				
Core Reject Duplicates																					
N253477	Drill Core	0.068	5.5	11	1.13	29	0.209	4.74	0.873	1.44	0.8	40.4	13	2.1	10.1	2.3	0.1	<1	11	13.5	4.3
DUP N253477	QC	0.068	5.8	10	1.15	31	0.232	4.78	0.886	1.46	0.8	42.9	13	2.5	10.2	2.6	0.1	<1	11	14.9	4.4
N253513	Drill Core	0.076	15.3	9	1.54	25	0.370	8.18	2.550	2.84	0.3	88.8	35	1.2	23.3	7.4	0.5	<1	16	7.7	4.2



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QUALITY CONTROL REPORT

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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253467	Drill Core	22.2	2.4	<0.05	0.408	10	1.0	0.7
REP N253467	QC							
N253489	Drill Core	17.6	1.2	<0.05	0.060	29	0.8	0.7
REP N253489	QC	20.4	1.2	0.07	0.074	29	0.9	0.8
N253502	Drill Core	67.7	3.5	0.05	0.007	16	0.7	0.9
REP N253502	QC							
N253503	Drill Core	68.0	4.0	<0.05	<0.005	14	0.5	1.0
REP N253503	QC	69.6	4.2	0.05	<0.005	19	0.8	1.0
N253538	Drill Core	47.8	2.4	<0.05	<0.005	8	0.6	<0.5
REP N253538	QC							
N253539	Rock Pulp	33.8	0.7	0.14	0.356	5	3.4	<0.5
REP N253539	QC	34.0	0.7	0.19	0.358	4	3.0	<0.5
N253574	Drill Core	77.8	2.9	0.06	<0.005	3	0.7	<0.5
REP N253574	QC							
N253575	Rock Pulp	40.3	0.5	0.09	0.410	<1	1.2	<0.5
REP N253575	QC	42.5	0.5	0.06	0.402	<1	1.0	<0.5
N253603	Drill Core	70.9	3.7	<0.05	<0.005	2	<0.5	<0.5
REP N253603	QC							
N253605	Drill Core	43.7	3.7	0.11	<0.005	2	1.0	<0.5
REP N253605	QC							
N253640	Drill Core	66.9	3.9	<0.05	<0.005	3	0.7	<0.5
REP N253640	QC	69.9	3.7	<0.05	<0.005	4	0.7	0.5
N253654	Drill Core	54.2	4.1	0.07	<0.005	4	0.8	<0.5
REP N253654	QC							
Core Reject Duplicates								
N253477	Drill Core	49.9	1.2	<0.05	0.062	13	<0.5	1.4
DUP N253477	QC	50.8	1.3	0.06	0.089	15	<0.5	1.3
N253513	Drill Core	77.1	2.8	<0.05	0.009	18	0.8	0.8



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 17, 2019

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QUALITY CONTROL REPORT

VAN18003633.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP N253513	QC		2	1.9	55.5	13.1	88	<0.1	5.3	15.6	791	4.57	<1	2.7	5.6	331	0.4	0.1	0.4	125	2.08
N253549	Drill Core	7.67	92	9.6	22.8	8.8	74	0.4	6.2	19.3	1469	5.63	63	1.5	2.2	383	0.2	1.4	<0.1	155	4.07
DUP N253549	QC		89	9.7	21.6	9.0	78	0.4	5.8	20.0	1442	5.60	64	1.2	2.0	379	0.2	1.3	<0.1	155	4.06
N253612	Drill Core	4.65	9	5.7	102.4	30.8	143	1.0	7.9	15.8	1386	4.39	3	2.1	4.7	339	0.6	0.7	0.2	140	3.02
DUP N253612	QC		11	5.3	111.4	36.3	154	1.0	8.5	17.0	1427	4.44	4	2.0	4.6	334	0.8	0.6	0.3	141	3.11
N253646	Drill Core	4.56	<2	2.3	69.8	4.8	57	<0.1	7.4	16.7	1043	4.47	3	2.5	5.9	289	<0.1	0.4	<0.1	140	3.16
DUP N253646	QC		<2	2.9	65.1	4.9	63	0.1	7.9	17.3	1046	4.52	3	2.6	6.0	289	<0.1	0.4	<0.1	144	3.21
Reference Materials																					
STD OREAS25A-4A	Standard			2.7	34.8	25.8	41	<0.1	46.2	7.9	527	6.78	10	3.0	15.9	50	<0.1	0.8	0.3	164	0.28
STD OREAS25A-4A	Standard			2.3	35.3	26.0	54	<0.1	45.6	7.8	500	6.59	9	3.0	16.5	50	<0.1	0.6	0.3	155	0.29
STD OREAS25A-4A	Standard			2.3	34.2	25.6	45	<0.1	40.9	7.7	472	6.38	9	2.9	17.5	49	<0.1	0.7	0.3	151	0.29
STD OREAS25A-4A	Standard			2.1	33.3	22.7	41	<0.1	43.4	7.2	475	6.27	8	2.6	14.3	41	<0.1	0.5	0.3	153	0.27
STD OREAS25A-4A	Standard			2.7	34.5	25.7	48	<0.1	45.2	7.6	476	6.63	9	2.9	16.3	52	<0.1	0.6	0.4	149	0.30
STD OREAS25A-4A	Standard			2.1	31.9	23.5	47	<0.1	46.3	7.2	502	6.58	9	2.6	15.2	45	<0.1	0.6	0.3	159	0.32
STD OREAS45E	Standard			2.4	795.1	18.8	45	0.3	480.0	59.1	613	25.33	17	2.5	12.5	17	<0.1	1.1	0.3	329	0.06
STD OREAS45E	Standard			2.7	772.4	18.8	47	0.3	473.5	61.3	555	24.34	17	2.5	13.5	17	<0.1	1.0	0.2	340	0.07
STD OREAS45E	Standard			2.5	767.7	20.5	47	0.3	468.5	58.6	546	23.48	16	2.9	15.0	17	<0.1	1.2	0.3	335	0.07
STD OREAS45E	Standard			2.3	782.2	17.2	48	0.3	482.5	58.3	562	24.07	16	2.3	12.4	15	<0.1	0.9	0.3	345	0.07
STD OREAS45E	Standard			2.4	801.3	20.8	51	0.3	503.1	63.9	603	26.78	19	2.8	15.2	19	<0.1	1.1	0.3	334	0.07
STD OREAS45E	Standard			2.3	793.0	17.8	46	0.3	489.4	59.9	552	24.10	15	2.3	12.1	16	<0.1	1.0	0.3	347	0.08
STD OREAS45E	Standard			2.5	758.7	18.5	46	0.3	456.6	55.4	544	22.84	16	2.4	12.6	17	<0.1	1.0	0.3	322	0.08
STD OXC145	Standard		211																		
STD OXC145	Standard		217																		
STD OXC145	Standard		198																		
STD OXC145	Standard		210																		
STD OXC145	Standard		213																		
STD OXC145	Standard		206																		
STD OXC145	Standard		209																		
STD OXH139	Standard		1318																		



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP N253513	QC	0.082	15.4	9	1.54	24	0.349	8.23	2.560	2.80	0.3	87.6	35	1.2	24.2	7.4	0.5	<1	15	8.5	4.3
N253549	Drill Core	0.092	11.7	7	1.79	99	0.402	8.02	2.051	1.85	0.7	62.9	25	0.6	16.0	4.0	0.2	<1	15	16.5	1.8
DUP N253549	QC	0.099	11.0	7	1.80	134	0.424	7.90	2.026	1.84	0.6	62.6	24	0.6	15.9	4.2	0.2	<1	15	18.7	1.8
N253612	Drill Core	0.068	14.8	12	1.53	107	0.429	7.53	2.326	2.09	0.6	131.8	31	1.2	23.9	7.8	0.5	<1	18	9.8	0.8
DUP N253612	QC	0.065	14.4	12	1.58	110	0.426	7.66	2.310	2.10	0.5	131.5	31	1.4	23.7	7.9	0.5	<1	18	10.2	0.9
N253646	Drill Core	0.068	15.3	11	1.48	102	0.430	7.55	2.633	2.37	0.5	131.0	34	1.5	26.0	8.9	0.6	<1	18	5.6	1.3
DUP N253646	QC	0.068	17.0	12	1.50	111	0.438	7.59	2.626	2.42	0.5	130.9	36	1.4	27.0	9.0	0.6	1	19	5.5	1.3
Reference Materials																					
STD OREAS25A-4A	Standard	0.051	21.7	112	0.36	153	0.979	9.11	0.132	0.51	2.0	159.2	48	3.9	10.6	20.4	1.5	<1	13	38.7	<0.1
STD OREAS25A-4A	Standard	0.048	22.4	118	0.32	154	0.973	9.45	0.145	0.52	1.9	154.3	46	4.0	11.3	19.9	1.5	1	13	41.5	<0.1
STD OREAS25A-4A	Standard	0.046	23.1	112	0.30	143	0.936	9.18	0.139	0.47	1.9	146.6	49	3.7	10.9	19.0	1.4	1	12	37.2	<0.1
STD OREAS25A-4A	Standard	0.046	20.3	113	0.31	132	0.898	8.55	0.123	0.44	1.9	142.2	46	3.4	8.9	17.9	1.4	<1	11	33.0	<0.1
STD OREAS25A-4A	Standard	0.047	22.4	110	0.31	144	0.927	8.85	0.130	0.48	1.9	145.7	49	4.0	10.6	18.9	1.4	<1	13	36.8	<0.1
STD OREAS25A-4A	Standard	0.050	22.0	114	0.33	147	0.929	9.25	0.132	0.50	2.1	151.8	49	4.0	9.7	19.5	1.5	<1	13	37.1	<0.1
STD OREAS45E	Standard	0.034	9.0	974	0.17	250	0.541	7.07	0.060	0.34	0.9	97.9	20	1.4	6.9	5.9	0.5	<1	88	6.1	<0.1
STD OREAS45E	Standard	0.030	11.9	1019	0.15	257	0.531	7.06	0.055	0.35	0.9	98.6	25	1.5	8.3	6.4	0.5	1	93	7.4	<0.1
STD OREAS45E	Standard	0.033	11.8	1008	0.15	263	0.513	6.89	0.054	0.35	1.1	95.9	25	1.3	8.2	6.3	0.6	<1	90	7.0	<0.1
STD OREAS45E	Standard	0.032	10.9	987	0.16	247	0.548	7.01	0.053	0.34	0.9	99.2	24	1.2	7.2	6.3	0.5	<1	86	6.7	<0.1
STD OREAS45E	Standard	0.036	12.2	1079	0.16	273	0.545	7.44	0.061	0.36	1.1	94.4	26	1.4	8.6	6.3	0.6	1	100	8.4	<0.1
STD OREAS45E	Standard	0.032	10.5	1039	0.15	253	0.495	7.20	0.049	0.33	1.0	101.0	24	1.4	7.4	6.2	0.5	<1	90	6.0	<0.1
STD OREAS45E	Standard	0.031	10.0	987	0.14	254	0.524	6.62	0.048	0.32	1.2	96.6	23	1.3	7.6	6.2	0.5	<1	85	5.5	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				



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QUALITY CONTROL REPORT

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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP N253513	QC	75.6	2.6	0.08	0.008	19	0.9	0.8
N253549	Drill Core	46.0	1.9	0.07	0.008	3	0.8	0.5
DUP N253549	QC	45.1	1.9	0.08	0.009	3	0.9	0.6
N253612	Drill Core	62.6	3.5	0.07	<0.005	3	1.2	<0.5
DUP N253612	QC	59.4	3.7	<0.05	<0.005	3	1.1	<0.5
N253646	Drill Core	64.1	3.8	<0.05	<0.005	3	0.8	<0.5
DUP N253646	QC	67.3	3.6	0.09	<0.005	2	0.7	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	57.4	4.1	0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	61.3	4.4	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	58.6	4.3	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	55.3	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.0	4.2	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	59.5	4.3	0.09	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.4	2.7	0.14	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.4	3.0	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.3	2.9	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.5	3.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.2	3.0	0.10	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	20.8	2.9	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.8	3.2	0.12	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							



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QUALITY CONTROL REPORT

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXH139	Standard		1308																		
STD OXH139	Standard		1268																		
STD OXH139	Standard		1303																		
STD OXH139	Standard		1306																		
STD OXH139	Standard		1240																		
STD OXH139	Standard		1253																		
STD OXH139	Standard		1272																		
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		2																		
BLK	Blank		<2																		
BLK	Blank		<2	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.4	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	1.1	6.3	2.8	38	<0.1	1.3	4.9	693	2.22	3	1.4	2.6	223	<0.1	0.1	<0.1	43	1.61
ROCK-VAN	Prep Blank		<2	0.5	5.0	2.9	40	<0.1	1.1	4.6	664	2.17	1	1.2	2.5	211	<0.1	0.1	<0.1	42	1.54



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXC145 Expected																						
STD OXH139 Expected																						
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	1	<0.01	<1	0.002	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.041	11.5	4	0.58	787	0.224	7.33	3.840	1.64	0.4	52.5	22	0.7	15.4	5.6	0.4	<1	8	4.0	<0.1	
ROCK-VAN	Prep Blank	0.040	12.4	4	0.55	783	0.213	6.89	3.753	1.56	0.3	50.3	25	0.9	15.3	5.3	0.4	<1	7	3.0	<0.1	



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 17, 2019

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QUALITY CONTROL REPORT

VAN18003633.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	32.3	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	31.2	1.6	<0.05	<0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 13, 2018

Report Date: January 21, 2019

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CERTIFICATE OF ANALYSIS

VAN18003682.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 163

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	152	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	11	Sort, label and box pulps			VAN
PULSW	152	Extra Wash with Silica between each sample			VAN
FA350-Au	162	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	163	Environmental disposal charge-Fire assay lead waste			VAN
MA200	163	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 21, 2019

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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
N255921	Drill Core	7.94	4	10.5	78.4	24.7	11	<0.1	4.2	5.7	22	6.25	5	1.2	3.2	367	0.1	0.6	1.6	227	0.14
N255922	Drill Core	3.88	6	11.1	77.9	32.3	14	0.1	4.3	6.4	29	6.92	4	0.9	2.2	517	0.3	0.7	1.9	211	0.15
N255923	Drill Core	4.54	5	5.4	98.5	55.4	25	<0.1	6.3	13.2	19	6.96	9	0.6	1.9	579	0.4	1.0	2.6	250	0.15
N255924	Drill Core	8.75	3	6.8	92.1	44.0	11	<0.1	8.0	17.4	25	5.84	3	1.3	2.3	327	0.2	1.0	1.6	214	0.14
N255925	Drill Core	7.02	8	7.9	103.3	62.0	5	<0.1	5.0	10.7	19	5.38	10	1.4	3.2	499	<0.1	1.7	2.6	242	0.12
N255926	Drill Core	3.91	4	4.4	64.1	37.0	4	<0.1	5.5	10.8	26	2.85	13	1.0	2.7	427	0.2	1.5	2.2	165	0.15
N255928	Drill Core	7.07	6	5.2	116.6	38.5	8	<0.1	6.3	7.4	18	8.00	19	1.3	3.5	440	0.2	1.4	2.5	245	0.12
N255929	Drill Core	7.39	4	4.2	271.4	31.7	13	<0.1	19.6	27.4	23	7.28	31	1.7	2.9	279	0.5	1.9	1.6	221	0.09
N255930	Drill Core	5.07	5	7.6	138.3	39.5	29	0.1	11.4	16.9	38	7.03	33	1.5	3.2	309	0.4	1.4	1.7	221	0.13
N255931	Drill Core	4.91	5	6.1	135.9	32.2	17	<0.1	6.9	8.6	38	8.47	11	1.3	3.2	346	0.2	1.1	1.7	246	0.12
N255932	Drill Core	4.88	10	5.7	152.2	27.7	14	<0.1	1.7	0.9	36	12.44	8	1.4	3.7	642	0.2	1.4	1.0	318	0.13
N255933	Drill Core	5.72	4	6.2	193.9	28.5	35	0.5	6.8	9.4	65	10.32	21	1.2	3.1	399	0.3	0.7	1.3	256	0.12
N255934	Drill Core	6.91	5	8.1	163.4	55.1	57	<0.1	11.5	22.1	52	7.34	19	1.5	3.2	561	0.8	1.4	1.8	219	0.14
N255935	Rock Pulp	0.06	642	332.2	3904.7	27.3	99	15.0	24.1	70.2	1432	4.57	2036	2.3	1.4	453	1.1	40.9	16.6	58	5.81
N255936	Drill Core	7.92	5	7.9	190.5	52.9	55	<0.1	8.5	14.2	44	6.02	28	1.8	3.1	381	0.7	1.2	1.7	262	0.12
N255937	Drill Core	8.42	6	10.4	143.7	60.7	22	0.1	11.5	18.2	40	6.59	20	1.5	3.8	388	0.3	1.0	1.8	204	0.11
N255938	Drill Core	7.78	5	6.3	185.6	73.3	86	0.2	17.7	27.5	28	7.19	18	1.6	3.4	318	1.4	1.2	1.6	226	0.11
N255939	Drill Core	8.42	12	14.8	130.7	86.5	24	0.1	11.3	17.3	16	7.83	20	2.2	4.7	628	0.7	1.6	1.9	228	0.11
N255940	Drill Core	7.35	10	31.6	113.1	81.1	11	0.1	8.5	13.8	13	7.08	23	1.4	3.4	521	0.1	0.9	1.8	195	0.11
N255941	Rock	1.17	<2	<0.1	0.9	1.5	2	<0.1	0.4	0.2	76	0.08	2	0.1	<0.1	61	<0.1	<0.1	<0.1	1	25.62
N255942	Drill Core	6.73	21	33.0	54.7	49.5	2	<0.1	3.0	6.5	17	3.08	14	0.7	2.4	442	<0.1	0.6	1.1	133	0.09
N255943	Drill Core	6.65	15	21.9	57.7	47.6	5	<0.1	6.4	18.2	20	5.01	2	0.8	2.4	442	<0.1	0.5	0.9	127	0.07
N255944	Drill Core	7.81	13	78.3	41.1	13.6	6	<0.1	1.2	2.8	25	1.53	6	0.7	1.2	124	<0.1	0.5	0.5	41	0.03
N255945	Drill Core	6.59	7	9.8	25.3	7.9	6	<0.1	2.1	1.7	30	1.11	6	0.7	1.2	26	<0.1	0.4	0.2	31	0.02
N255946	Drill Core	6.41	15	7.2	38.4	4.9	6	<0.1	0.2	0.8	31	1.89	8	0.9	1.4	8	<0.1	0.3	<0.1	27	<0.01
N255947	Drill Core	5.85	18	5.9	68.9	69.3	2	<0.1	3.6	6.7	14	2.84	14	0.7	3.1	631	<0.1	1.2	1.8	74	0.07
N255948	Rock Pulp	0.05	205	362.7	1848.1	25.0	56	12.1	13.5	9.6	685	3.39	12	0.9	1.7	411	0.5	31.6	1.9	82	2.59
N255949	Drill Core	8.80	23	8.6	92.1	81.7	7	0.2	7.2	16.3	20	4.63	14	1.9	5.4	619	0.2	1.3	2.4	117	0.12
N255950	Drill Core	7.24	7	7.2	125.9	47.1	3	0.2	5.5	12.9	15	8.72	12	1.5	4.7	366	<0.1	0.9	3.2	115	0.12
N255951	Drill Core	8.17	6	12.5	128.2	71.8	4	0.2	6.4	16.4	13	6.09	7	2.6	6.4	483	0.1	0.4	0.6	143	0.15



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 21, 2019

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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255921	Drill Core	0.108	13.0	15	0.11	42	0.517	8.45	0.083	1.14	0.6	51.7	32	4.4	7.9	6.5	0.4	<1	16	0.8	2.3
N255922	Drill Core	0.113	11.6	12	0.12	25	0.500	7.36	0.119	1.25	0.6	29.4	30	6.6	7.6	5.8	0.4	<1	16	0.8	3.4
N255923	Drill Core	0.109	11.7	15	0.07	24	0.595	9.33	0.125	0.93	0.2	19.3	28	7.7	5.5	5.6	0.3	<1	15	0.8	3.9
N255924	Drill Core	0.088	8.8	10	0.09	17	0.533	8.22	0.072	1.05	0.5	72.3	24	10.8	13.3	6.5	0.4	<1	17	0.7	5.7
N255925	Drill Core	0.113	16.0	13	0.04	27	0.570	8.51	0.107	0.57	0.5	72.2	38	15.1	9.7	6.7	0.5	<1	15	1.2	3.6
N255926	Drill Core	0.120	10.2	13	0.02	46	0.365	10.51	0.215	0.19	0.4	61.1	20	11.5	4.9	4.5	0.3	<1	8	1.5	3.7
N255928	Drill Core	0.098	19.1	20	0.02	27	0.405	8.67	0.088	0.10	0.3	64.7	43	19.2	9.9	5.0	0.3	<1	12	1.7	2.9
N255929	Drill Core	0.081	6.8	27	0.05	11	0.571	8.37	0.019	0.25	0.4	73.0	18	31.6	20.6	7.1	0.5	<1	15	1.7	7.9
N255930	Drill Core	0.101	8.5	30	0.04	15	0.636	8.08	0.022	0.18	0.7	72.3	22	14.2	11.5	8.1	0.5	<1	12	1.9	4.4
N255931	Drill Core	0.100	9.9	27	0.05	29	0.549	8.20	0.018	0.23	0.5	70.6	26	9.0	10.5	7.0	0.5	<1	13	2.4	2.4
N255932	Drill Core	0.133	10.9	31	0.03	480	0.454	7.91	0.010	0.08	0.3	89.8	27	4.4	19.1	4.9	0.4	<1	16	0.9	0.3
N255933	Drill Core	0.110	9.8	25	0.12	30	0.445	7.82	0.037	0.60	1.7	76.7	26	11.2	18.3	5.5	0.4	<1	17	1.7	2.5
N255934	Drill Core	0.099	12.6	16	0.11	15	0.472	8.69	0.126	0.90	0.6	71.2	34	17.9	13.0	6.6	0.5	<1	16	1.5	8.0
N255935	Rock Pulp	0.060	14.9	30	0.75	341	0.142	5.91	1.644	1.60	3.9	20.0	23	3.0	8.7	1.8	<0.1	<1	6	11.9	0.6
N255936	Drill Core	0.097	10.3	23	0.16	19	0.617	8.46	0.045	0.92	0.4	90.4	26	19.3	13.5	7.8	0.5	<1	22	1.7	4.7
N255937	Drill Core	0.086	15.5	20	0.03	12	0.490	8.26	0.015	0.11	0.5	78.5	38	13.6	11.4	6.8	0.4	<1	12	2.1	6.1
N255938	Drill Core	0.095	13.0	25	0.03	11	0.526	8.74	0.008	0.04	0.5	85.0	33	13.8	18.6	6.8	0.4	<1	13	1.5	7.7
N255939	Drill Core	0.096	21.3	13	0.01	13	0.311	8.03	0.017	0.09	0.6	86.3	56	12.7	18.9	4.0	0.3	<1	12	1.9	7.9
N255940	Drill Core	0.103	17.8	24	<0.01	15	0.252	9.73	0.020	0.17	0.4	65.4	41	9.1	5.9	3.1	0.2	<1	8	2.6	5.7
N255941	Rock	0.005	1.1	<1	0.81	24	0.005	0.14	0.039	0.03	<0.1	1.2	<1	<0.1	1.7	0.3	<0.1	<1	<1	0.8	<0.1
N255942	Drill Core	0.052	10.8	14	<0.01	34	0.154	6.19	0.047	0.43	0.4	48.1	25	5.3	3.4	1.9	0.1	<1	5	0.9	1.8
N255943	Drill Core	0.047	9.8	12	<0.01	15	0.130	5.64	0.046	0.29	0.3	50.2	23	6.0	4.7	2.2	0.1	<1	5	0.7	4.7
N255944	Drill Core	0.010	2.6	6	<0.01	553	0.173	1.75	0.005	0.02	0.3	48.8	5	3.7	4.7	2.1	<0.1	<1	4	0.5	<0.1
N255945	Drill Core	0.004	1.3	5	<0.01	543	0.211	0.78	0.004	0.02	0.6	46.4	3	2.5	4.8	2.7	<0.1	<1	3	0.3	<0.1
N255946	Drill Core	0.001	0.4	5	<0.01	288	0.117	0.56	0.003	0.02	0.4	62.0	<1	3.2	5.2	1.6	<0.1	<1	2	<0.1	<0.1
N255947	Drill Core	0.072	13.1	9	<0.01	68	0.170	5.88	0.018	0.05	0.6	46.8	26	8.4	3.6	2.9	0.2	<1	4	1.2	1.4
N255948	Rock Pulp	0.051	7.1	16	0.81	712	0.183	6.58	2.076	1.69	1.7	9.4	17	3.0	10.0	2.5	0.2	<1	8	8.1	0.3
N255949	Drill Core	0.127	22.1	7	<0.01	15	0.141	7.25	0.179	1.12	0.6	95.3	52	7.0	8.6	3.2	0.4	<1	9	1.1	6.7
N255950	Drill Core	0.119	17.7	7	<0.01	9	0.144	6.66	0.108	0.62	0.3	52.5	48	2.2	8.5	3.2	0.2	<1	7	0.8	>10
N255951	Drill Core	0.147	25.0	10	<0.01	14	0.358	7.89	0.029	0.11	1.0	62.4	56	2.2	10.7	8.3	0.5	<1	11	1.7	6.8



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255921	Drill Core	22.2	1.6	0.20	0.011	105	3.3	3.6
N255922	Drill Core	27.4	0.9	0.20	0.007	104	4.1	5.0
N255923	Drill Core	15.5	0.7	0.29	0.065	69	3.4	5.5
N255924	Drill Core	18.0	2.2	0.23	0.033	57	2.2	6.2
N255925	Drill Core	7.2	2.3	0.20	0.068	68	4.0	8.3
N255926	Drill Core	0.9	1.8	0.16	0.268	19	0.9	1.5
N255928	Drill Core	1.4	2.0	0.37	0.031	102	3.4	0.6
N255929	Drill Core	4.9	2.2	0.32	0.025	48	2.4	2.6
N255930	Drill Core	3.9	2.2	0.21	0.055	64	2.9	2.3
N255931	Drill Core	5.1	2.1	0.20	0.031	104	2.8	2.0
N255932	Drill Core	2.1	2.7	0.38	0.009	133	3.3	<0.5
N255933	Drill Core	15.7	2.4	0.58	0.091	50	1.9	3.2
N255934	Drill Core	19.0	2.2	0.31	0.172	57	2.5	5.0
N255935	Rock Pulp	37.1	0.7	0.13	0.335	5	3.2	<0.5
N255936	Drill Core	23.0	2.7	0.36	0.070	38	1.7	5.3
N255937	Drill Core	2.6	2.3	0.14	0.544	46	1.2	0.9
N255938	Drill Core	1.0	2.4	0.98	0.069	28	0.6	1.0
N255939	Drill Core	0.8	2.8	0.43	0.222	57	1.1	<0.5
N255940	Drill Core	0.3	2.0	0.43	0.198	45	0.7	<0.5
N255941	Rock	1.1	<0.1	<0.05	<0.005	<1	2.5	<0.5
N255942	Drill Core	0.6	1.3	0.19	0.011	18	<0.5	<0.5
N255943	Drill Core	0.5	1.5	0.11	0.106	22	0.7	<0.5
N255944	Drill Core	0.3	1.4	0.11	0.012	3	0.7	<0.5
N255945	Drill Core	0.3	1.3	0.13	0.006	4	<0.5	<0.5
N255946	Drill Core	0.3	1.7	0.17	<0.005	5	<0.5	<0.5
N255947	Drill Core	0.3	1.5	0.05	0.017	7	0.8	<0.5
N255948	Rock Pulp	32.8	0.5	0.10	0.375	<1	1.3	<0.5
N255949	Drill Core	1.4	2.9	0.29	0.032	7	1.0	2.3
N255950	Drill Core	0.7	1.6	0.09	0.038	8	0.8	<0.5
N255951	Drill Core	0.3	2.0	0.11	0.031	10	0.7	<0.5



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N255952	Drill Core	7.01	11	20.6	132.1	78.2	4	0.2	4.9	8.7	18	5.94	6	2.4	6.5	988	<0.1	0.4	0.4	170	0.20
N255953	Drill Core	2.65	9	14.4	142.4	58.8	6	0.2	4.1	8.5	20	5.49	6	2.8	5.7	783	0.1	0.4	0.2	124	0.14
N255955	Drill Core	6.27	11	31.9	199.2	57.7	10	1.2	7.5	11.9	22	5.74	5	2.9	6.4	582	<0.1	0.4	<0.1	134	0.13
N255956	Drill Core	7.63	7	14.3	83.4	69.2	30	0.2	8.6	18.6	30	5.44	7	2.4	6.4	449	0.4	0.4	0.3	101	0.13
N255957	Drill Core	8.84	3	8.6	80.3	51.5	49	<0.1	7.8	18.2	21	5.13	5	2.5	6.7	292	0.4	0.4	0.3	128	0.12
N255958	Drill Core	7.63	5	20.8	33.9	68.5	117	<0.1	6.3	18.2	57	4.30	3	2.4	5.0	215	1.3	0.3	0.2	115	0.09
N255959	Drill Core	7.89	4	9.5	65.1	36.4	134	0.1	7.5	16.2	64	4.52	4	2.5	5.0	313	0.9	0.4	0.2	138	0.12
N255960	Rock Pulp	0.06	619	333.0	3832.6	27.0	108	15.2	26.0	69.1	1464	4.75	2004	2.2	1.4	425	0.9	43.2	14.2	57	5.95
N255961	Drill Core	7.78	4	10.0	103.3	30.4	35	0.1	8.4	13.5	28	3.15	13	2.8	8.5	822	0.6	0.9	0.5	122	0.19
N255962	Drill Core	6.76	3	9.2	77.5	18.8	32	<0.1	4.9	9.2	24	3.78	8	2.0	6.4	867	0.4	0.5	0.3	97	0.17
N255963	Drill Core	7.85	3	4.8	90.6	13.1	115	<0.1	4.8	13.5	24	4.64	4	2.8	6.2	352	0.7	0.3	0.2	118	0.16
N255964	Drill Core	7.84	3	5.1	103.5	11.8	131	0.2	4.6	13.8	26	5.34	3	2.2	4.3	192	0.8	0.3	0.2	117	0.14
N255965	Drill Core	8.05	4	2.3	94.3	13.0	131	<0.1	5.1	13.7	81	6.01	3	2.4	4.5	314	1.0	0.2	0.3	111	0.14
N255966	Rock	1.22	<2	0.1	2.1	0.6	4	<0.1	1.5	0.6	119	0.11	3	0.2	<0.1	74	<0.1	0.1	0.2	<1	33.71
N255967	Drill Core	8.28	6	2.5	72.4	21.2	63	<0.1	5.8	13.5	73	3.56	4	2.1	5.3	69	0.4	0.2	0.3	104	0.35
N255968	Drill Core	7.58	7	38.2	63.7	22.5	85	<0.1	7.7	15.2	58	5.02	<1	2.5	4.4	85	0.6	0.2	0.3	136	0.35
N255969	Drill Core	7.91	7	36.8	100.5	19.1	137	0.3	15.2	20.4	127	5.17	3	1.8	4.1	245	0.6	0.2	0.3	160	0.20
N255970	Drill Core	7.68	4	16.0	99.6	6.5	225	<0.1	22.1	26.5	286	5.25	6	2.0	3.8	7	0.3	0.3	0.2	228	0.29
N255971	Drill Core	7.27	6	7.5	89.7	9.2	183	<0.1	20.4	25.0	183	6.77	4	2.0	2.8	12	0.6	0.3	0.4	190	0.27
N255972	Drill Core	6.23	4	2.2	91.3	7.2	233	<0.1	21.5	24.5	166	6.27	23	1.9	3.6	6	0.8	0.3	0.2	221	0.29
N255973	Rock Pulp	0.06	181	387.2	1888.9	27.5	65	13.4	14.8	9.8	787	3.70	13	1.0	2.1	439	0.8	35.6	2.2	84	2.83
N255974	Drill Core	7.64	10	2.2	78.1	10.8	174	<0.1	12.6	17.5	121	4.67	25	1.7	4.0	14	0.4	0.3	0.2	185	0.23
N255975	Drill Core	4.42	5	6.2	107.5	13.2	159	<0.1	20.0	25.4	91	5.36	36	1.4	3.0	29	0.7	0.3	0.2	224	0.04
N255976	Drill Core	5.83	8	5.5	81.1	30.9	29	<0.1	8.7	20.4	21	8.90	6	3.3	6.2	732	0.3	0.2	0.3	88	0.11
N255977	Drill Core	4.48	6	4.4	171.9	11.9	52	<0.1	3.8	5.9	22	2.31	7	3.8	7.5	153	0.5	0.2	0.3	145	0.04
N255978	Drill Core	5.51	5	3.9	194.2	15.4	43	<0.1	2.8	5.7	14	1.53	10	3.5	7.0	107	0.4	0.3	0.3	108	0.05
N255979	Rock	1.24	2	0.1	2.3	0.5	3	<0.1	<0.1	0.5	125	0.08	1	0.1	0.1	85	0.3	<0.1	0.2	<1	36.15
N255980	Drill Core	6.22	11	8.4	471.9	91.0	25	0.1	2.5	6.8	17	2.69	11	4.3	7.6	382	0.6	0.4	0.3	121	0.13
N255981	Drill Core	6.98	12	7.0	194.6	44.5	25	0.2	6.2	11.5	15	4.64	10	2.9	5.5	135	0.5	0.3	0.3	103	0.04
N255982	Drill Core	7.69	12	37.8	205.8	26.5	36	<0.1	5.4	9.2	16	3.45	9	3.5	7.0	289	0.5	0.3	0.3	131	0.06



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N255952	Drill Core	0.190	29.0	15	<0.01	26	0.380	7.45	0.021	0.06	1.2	82.0	61	2.6	10.4	10.9	0.6	<1	14	1.9	3.4
N255953	Drill Core	0.137	25.3	11	<0.01	18	0.401	6.47	0.020	0.06	1.1	75.6	53	2.7	11.1	8.6	0.6	<1	13	3.1	3.9
N255955	Drill Core	0.117	21.8	10	0.02	16	0.468	7.67	0.023	0.44	4.9	104.3	53	6.0	13.1	10.7	0.8	<1	15	3.2	4.5
N255956	Drill Core	0.108	22.8	7	0.04	16	0.477	8.75	0.019	1.10	1.1	74.5	52	3.8	15.2	10.6	0.7	<1	13	2.2	5.4
N255957	Drill Core	0.105	22.9	8	0.05	21	0.482	8.75	0.019	1.87	0.7	52.6	51	4.0	18.1	10.7	0.7	<1	14	1.5	5.4
N255958	Drill Core	0.080	17.0	8	0.16	16	0.467	8.73	0.020	2.43	0.8	63.3	44	2.3	18.0	9.3	0.6	<1	17	0.8	4.8
N255959	Drill Core	0.103	15.8	9	0.17	20	0.479	9.43	0.034	2.58	0.9	81.5	40	4.4	17.9	9.8	0.6	<1	20	1.6	5.0
N255960	Rock Pulp	0.059	15.9	35	0.75	340	0.151	5.83	1.683	1.74	4.1	19.6	23	2.9	8.6	1.6	0.1	<1	6	12.8	0.6
N255961	Drill Core	0.208	29.1	10	0.05	31	0.489	9.94	0.028	0.96	1.0	81.4	64	5.1	23.2	11.1	0.7	<1	16	5.1	3.0
N255962	Drill Core	0.159	28.5	9	0.01	26	0.480	9.45	0.029	0.11	0.8	63.8	59	2.3	17.1	10.4	0.7	<1	14	5.1	4.1
N255963	Drill Core	0.082	16.2	8	0.04	18	0.480	8.84	0.087	0.69	0.4	86.0	40	2.9	26.5	10.2	0.7	<1	21	3.1	5.2
N255964	Drill Core	0.047	9.8	8	0.06	12	0.447	8.67	0.095	1.03	1.0	68.6	25	2.8	23.0	9.5	0.6	<1	23	2.0	5.9
N255965	Drill Core	0.069	14.7	8	0.11	30	0.312	8.24	0.036	1.95	0.3	77.5	38	1.0	22.3	5.6	0.4	<1	23	1.2	6.6
N255966	Rock	0.006	1.5	5	2.70	17	0.005	0.14	0.046	0.05	<0.1	2.1	1	<0.1	2.4	0.2	<0.1	<1	<1	0.9	<0.1
N255967	Drill Core	0.081	15.6	7	0.12	22	0.322	8.40	0.031	2.11	0.7	77.4	37	1.2	23.1	6.0	0.4	<1	16	1.7	3.9
N255968	Drill Core	0.091	12.4	11	0.13	13	0.404	8.32	0.026	1.85	0.7	93.1	34	1.7	28.5	7.2	0.5	<1	20	3.6	5.4
N255969	Drill Core	0.075	11.9	20	0.16	15	0.461	8.69	0.024	1.13	2.3	94.4	29	4.3	13.8	7.6	0.5	<1	19	6.9	5.7
N255970	Drill Core	0.091	6.8	28	0.37	15	0.543	9.86	0.014	1.58	0.6	138.1	19	2.7	16.9	8.5	0.6	<1	27	4.0	5.8
N255971	Drill Core	0.079	10.5	22	0.39	11	0.461	8.06	0.017	1.79	0.5	113.8	26	2.4	16.7	7.0	0.5	<1	22	2.7	7.4
N255972	Drill Core	0.085	6.6	29	0.34	12	0.506	9.47	0.015	1.63	0.5	125.2	18	2.7	21.1	8.2	0.5	1	25	4.2	6.9
N255973	Rock Pulp	0.055	8.3	20	0.86	748	0.213	6.92	2.210	1.92	1.7	10.3	19	2.8	11.4	2.8	0.2	<1	9	8.9	0.3
N255974	Drill Core	0.087	10.6	24	0.24	17	0.484	8.81	0.029	1.84	0.6	120.4	31	2.8	25.5	8.8	0.6	1	23	3.0	5.0
N255975	Drill Core	0.092	6.2	31	0.23	18	0.529	9.43	0.022	2.17	0.6	116.3	17	2.2	10.1	8.3	0.5	<1	27	2.9	5.6
N255976	Drill Core	0.121	21.3	7	0.01	21	0.315	7.38	0.020	0.12	0.6	77.1	50	2.0	18.7	8.7	0.6	<1	21	10.3	9.7
N255977	Drill Core	0.046	23.1	8	0.02	37	0.403	8.05	0.069	0.82	1.2	85.2	50	2.7	26.1	8.1	0.7	<1	30	5.5	2.4
N255978	Drill Core	0.042	17.3	5	0.03	92	0.411	8.22	0.127	1.10	1.4	94.8	38	2.6	25.5	8.6	0.7	<1	27	3.1	1.4
N255979	Rock	0.008	1.6	2	1.72	22	0.007	0.18	0.045	0.05	<0.1	2.2	1	<0.1	2.5	0.3	<0.1	<1	<1	0.7	<0.1
N255980	Drill Core	0.105	22.2	8	0.02	31	0.381	7.67	0.109	0.88	1.4	85.2	50	3.1	39.4	12.5	0.7	<1	25	5.2	2.8
N255981	Drill Core	0.053	19.0	7	0.02	22	0.327	7.08	0.070	0.67	0.9	53.9	43	2.6	30.0	6.4	0.5	<1	24	3.9	5.1
N255982	Drill Core	0.077	24.4	8	0.02	30	0.385	7.43	0.082	0.90	1.0	65.7	54	3.1	34.1	8.4	0.6	<1	46	3.8	3.7



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255952	Drill Core	0.7	2.5	0.18	0.024	14	0.9	<0.5
N255953	Drill Core	0.7	2.2	0.16	0.029	13	1.1	<0.5
N255955	Drill Core	3.8	3.1	0.24	0.125	15	2.0	0.5
N255956	Drill Core	8.0	2.3	0.24	0.051	14	1.8	0.8
N255957	Drill Core	13.7	1.6	0.23	0.027	9	1.0	1.0
N255958	Drill Core	19.4	1.9	0.17	0.017	12	0.9	1.5
N255959	Drill Core	28.7	2.5	0.25	0.016	8	0.7	1.9
N255960	Rock Pulp	35.1	0.6	0.12	0.371	3	2.5	<0.5
N255961	Drill Core	9.1	2.3	0.22	0.017	7	<0.5	0.9
N255962	Drill Core	1.2	1.9	0.13	0.020	7	0.5	<0.5
N255963	Drill Core	11.5	2.4	0.13	0.013	5	0.7	0.9
N255964	Drill Core	18.1	2.1	0.14	0.019	9	0.6	1.2
N255965	Drill Core	41.5	2.3	0.15	0.036	15	0.6	1.2
N255966	Rock	1.4	<0.1	<0.05	<0.005	<1	2.9	<0.5
N255967	Drill Core	44.9	2.1	0.08	0.024	10	<0.5	1.5
N255968	Drill Core	39.0	2.7	0.11	0.405	15	0.5	1.7
N255969	Drill Core	29.8	2.8	0.05	0.436	3	0.5	1.2
N255970	Drill Core	37.5	3.9	0.13	0.139	4	0.8	1.0
N255971	Drill Core	41.5	3.1	0.12	0.051	8	1.3	1.2
N255972	Drill Core	37.0	3.6	0.10	0.020	3	0.8	0.8
N255973	Rock Pulp	36.5	0.6	0.10	0.421	<1	1.4	<0.5
N255974	Drill Core	46.3	3.4	0.07	0.021	4	0.6	0.9
N255975	Drill Core	53.1	3.5	0.08	0.056	3	0.5	1.6
N255976	Drill Core	2.4	2.3	<0.05	0.060	5	0.6	1.1
N255977	Drill Core	10.2	2.5	0.19	0.046	<1	<0.5	1.2
N255978	Drill Core	9.6	2.9	0.18	0.044	<1	<0.5	1.5
N255979	Rock	1.2	<0.1	<0.05	<0.005	<1	2.8	<0.5
N255980	Drill Core	8.2	2.4	0.36	0.149	4	<0.5	1.1
N255981	Drill Core	6.3	1.6	0.21	0.123	5	0.7	2.0
N255982	Drill Core	7.9	1.9	0.27	0.738	2	<0.5	2.0



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Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N255983	Drill Core	7.77	10	23.8	199.0	30.8	51	0.1	11.3	19.4	18	5.55	<1	4.9	4.6	314	0.3	0.4	0.4	208	0.06
N255984	Drill Core	6.36	7	30.5	136.1	30.0	28	<0.1	11.3	22.6	15	4.71	<1	2.3	5.5	176	0.5	0.3	0.4	212	0.05
N255985	Drill Core	7.05	5	71.5	138.5	75.2	33	<0.1	3.8	6.8	19	4.70	8	2.1	6.6	365	0.4	0.6	0.4	138	0.09
N255986	Rock Pulp	0.06	646	343.4	3881.6	26.6	110	14.7	24.6	66.6	1490	4.84	2167	2.1	1.4	460	1.4	43.5	14.0	58	6.05
N255987	Drill Core	5.93	4	21.2	120.4	25.4	131	<0.1	3.5	7.6	19	3.70	<1	3.5	5.4	202	1.2	0.5	0.6	106	0.06
N255988	Drill Core	7.26	9	33.3	77.5	35.5	250	0.1	7.8	15.1	22	3.90	<1	1.8	5.3	124	2.0	0.5	0.5	134	0.26
N255989	Drill Core	6.09	8	44.2	82.7	34.8	558	<0.1	7.5	14.7	20	4.80	2	1.7	4.7	88	4.6	0.4	0.6	211	0.18
N255990	Drill Core	6.44	6	12.8	69.9	28.4	40	<0.1	12.0	21.5	18	3.91	2	1.8	4.0	254	0.4	0.4	0.6	195	0.09
N255991	Drill Core	6.88	3	7.8	59.7	20.7	49	<0.1	13.6	14.4	14	4.97	9	2.2	4.9	228	1.0	0.7	0.7	174	0.11
N255992	Drill Core	3.51	6	9.6	66.7	51.4	19	<0.1	12.1	21.3	15	6.44	7	1.9	5.1	440	0.1	0.8	0.3	128	0.09
N255994	Drill Core	8.21	8	20.1	138.8	38.1	39	0.1	15.7	27.5	16	7.67	9	1.4	4.7	229	0.4	1.3	0.5	172	0.09
N255995	Drill Core	8.12	8	17.8	152.0	36.3	19	<0.1	19.3	35.9	19	9.12	<1	1.4	4.7	248	0.2	1.1	0.4	161	0.08
N255996	Drill Core	7.68	18	94.3	112.0	48.7	27	<0.1	16.2	30.7	22	9.66	1	1.4	4.2	358	0.7	1.7	1.5	167	0.09
N255997	Drill Core	7.87	9	8.2	130.7	41.6	108	0.2	21.7	31.3	26	5.75	2	2.5	4.7	192	1.3	0.6	0.6	261	0.11
N255998	Drill Core	8.26	11	7.0	79.1	54.5	85	0.1	19.0	29.5	30	7.21	9	1.8	4.2	169	1.0	0.7	0.6	210	0.11
N255999	Drill Core	6.01	6	9.5	103.1	53.4	211	0.1	9.7	20.7	40	4.21	9	1.5	4.2	279	2.3	0.9	0.3	117	0.08
N256000	Drill Core	6.24	7	12.3	156.0	69.5	130	0.1	8.9	18.3	41	6.69	14	2.7	5.7	388	1.7	0.8	0.9	129	0.18
N256001	Rock Pulp	0.06	187	381.7	1923.8	25.3	58	12.0	15.6	9.4	743	3.50	12	1.1	2.0	429	0.6	32.3	2.0	83	2.66
N256002	Drill Core	5.98	4	8.1	140.4	23.3	157	<0.1	9.2	17.7	213	5.57	5	2.2	3.9	122	1.4	0.6	0.7	124	1.95
N256003	Drill Core	6.85	3	7.8	140.0	23.7	110	0.1	12.2	20.9	554	5.46	7	1.8	4.0	67	1.1	0.8	0.7	105	4.81
N256004	Drill Core	6.54	2	3.1	111.7	11.2	88	<0.1	10.5	17.4	1783	4.67	<1	2.0	4.5	63	0.7	0.4	<0.1	128	2.48
N256005	Drill Core	6.70	<2	5.0	100.1	11.0	94	<0.1	10.5	18.7	1406	4.75	<1	1.9	4.3	70	0.6	0.2	0.4	138	3.22
N256006	Drill Core	5.80	4	7.2	91.5	7.9	110	<0.1	11.6	19.1	1187	4.88	<1	1.8	4.0	115	0.6	0.3	0.3	143	3.92
N256007	Rock	2.00	<2	<0.1	2.2	0.5	4	<0.1	1.3	0.4	144	0.12	1	0.3	0.2	88	<0.1	<0.1	<0.1	<1	34.63
N256008	Drill Core	3.61	3	3.7	84.5	8.9	75	<0.1	12.5	20.9	1076	5.12	<1	1.6	3.5	196	<0.1	0.3	0.7	153	3.80
N256009	Drill Core	7.14	4	5.0	117.1	14.7	68	<0.1	13.4	20.4	686	6.41	<1	2.1	4.3	38	0.5	0.4	0.5	157	1.18
N256010	Drill Core	6.64	8	24.6	126.1	19.9	112	<0.1	13.1	23.5	743	5.36	<1	1.7	3.7	46	0.9	0.3	0.5	157	1.51
N256011	Drill Core	7.29	6	10.3	121.0	8.9	89	<0.1	8.5	18.6	683	4.84	<1	2.0	4.2	77	0.3	0.2	0.4	134	2.37
N256012	Drill Core	3.37	3	7.3	172.5	14.8	97	<0.1	7.2	18.1	678	5.39	<1	1.7	3.8	80	0.5	0.2	1.2	103	2.15
N256014	Drill Core	5.50	3	2.3	138.0	9.9	82	<0.1	11.7	15.9	720	4.38	<1	1.9	4.4	72	0.3	0.2	0.5	118	2.04



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Project: Pemberton

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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
MDL		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N255983	Drill Core	0.074	18.5	13	0.02	24	0.435	9.07	0.083	0.64	1.1	85.0	43	3.9	54.5	12.3	0.5	<1	49	7.6	6.0	
N255984	Drill Core	0.067	17.8	13	0.01	32	0.341	8.57	0.060	0.58	1.1	69.9	41	2.9	25.9	5.1	0.4	<1	30	6.0	5.2	
N255985	Drill Core	0.100	20.8	11	0.02	36	0.350	8.87	0.050	0.46	1.9	75.1	46	5.0	17.4	5.5	0.4	<1	26	6.2	5.2	
N255986	Rock Pulp	0.064	15.8	34	0.76	307	0.142	5.85	1.701	1.75	7.6	20.7	24	3.0	8.7	1.7	0.1	<1	5	11.1	0.6	
N255987	Drill Core	0.066	17.9	15	0.03	54	0.364	9.61	0.123	0.90	2.0	104.8	42	7.5	50.5	6.5	0.5	<1	31	5.3	4.0	
N255988	Drill Core	0.094	17.1	15	0.03	28	0.376	9.91	0.111	1.06	1.7	94.1	44	5.2	33.7	6.1	0.4	<1	15	4.6	4.3	
N255989	Drill Core	0.072	14.5	16	0.03	27	0.358	9.29	0.099	0.97	2.8	86.6	35	4.7	44.9	6.1	0.4	<1	21	4.8	5.4	
N255990	Drill Core	0.082	14.1	14	0.02	53	0.347	8.74	0.039	0.33	1.8	84.2	34	3.9	20.7	6.0	0.4	<1	39	5.6	4.3	
N255991	Drill Core	0.108	19.2	13	<0.01	43	0.278	8.99	0.007	0.02	1.1	71.6	48	2.4	9.1	4.5	0.3	<1	23	5.1	5.5	
N255992	Drill Core	0.098	19.4	14	<0.01	52	0.244	9.10	0.008	0.01	0.8	68.6	45	9.8	8.3	3.9	0.3	<1	10	7.6	6.9	
N255994	Drill Core	0.090	13.3	13	<0.01	28	0.227	8.55	0.009	0.01	1.1	63.3	31	7.3	13.9	3.9	0.3	<1	12	6.7	8.1	
N255995	Drill Core	0.084	15.7	13	<0.01	27	0.177	8.61	0.009	0.01	0.7	62.2	36	6.5	9.9	1.9	0.2	<1	9	5.7	9.5	
N255996	Drill Core	0.082	11.8	12	<0.01	12	0.217	7.86	0.010	0.02	2.2	68.2	30	8.3	14.2	3.4	0.2	<1	10	7.3	>10	
N255997	Drill Core	0.088	13.0	19	0.06	19	0.259	9.68	0.016	0.94	0.7	98.7	36	8.2	36.6	3.9	0.3	<1	36	6.3	6.2	
N255998	Drill Core	0.087	13.8	19	0.06	20	0.218	9.14	0.016	0.78	0.6	95.1	36	4.0	21.0	3.6	0.2	<1	24	6.5	7.7	
N255999	Drill Core	0.077	12.5	13	0.03	21	0.224	8.74	0.018	0.49	0.8	89.4	29	7.9	11.3	3.6	0.3	<1	9	6.5	4.4	
N256000	Drill Core	0.115	19.3	10	0.08	19	0.215	8.89	0.064	1.02	1.0	136.4	46	7.9	17.2	4.8	0.3	<1	16	9.1	7.2	
N256001	Rock Pulp	0.050	7.8	18	0.83	715	0.196	6.71	2.238	1.80	1.5	10.1	18	3.1	10.3	2.5	0.1	<1	8	8.4	0.3	
N256002	Drill Core	0.087	12.8	10	0.73	19	0.214	7.09	0.116	2.33	0.7	133.8	32	4.6	17.7	4.7	0.3	<1	19	5.0	7.6	
N256003	Drill Core	0.071	12.1	11	1.20	28	0.274	6.35	0.056	1.77	0.6	114.3	29	5.7	17.4	4.7	0.3	<1	14	6.9	9.5	
N256004	Drill Core	0.086	12.8	12	2.10	21	0.287	7.06	0.278	1.69	0.4	128.5	32	1.6	21.1	5.3	0.4	<1	18	10.8	6.1	
N256005	Drill Core	0.082	12.9	12	1.87	22	0.334	7.11	0.440	1.92	0.5	115.5	30	2.6	19.5	5.9	0.4	<1	18	10.3	6.7	
N256006	Drill Core	0.081	14.7	13	2.34	26	0.327	7.34	0.855	1.56	0.4	114.1	34	2.4	20.7	5.3	0.4	<1	18	9.9	7.1	
N256007	Rock	0.008	1.6	2	1.97	18	0.006	0.17	0.058	0.07	<0.1	3.1	1	<0.1	2.7	0.4	<0.1	<1	<1	1.3	<0.1	
N256008	Drill Core	0.086	13.1	14	2.43	23	0.254	7.56	1.158	1.71	0.6	99.4	31	1.5	18.1	3.9	0.3	<1	20	8.8	6.9	
N256009	Drill Core	0.079	12.6	11	2.36	17	0.189	7.20	0.189	1.17	0.3	94.3	31	2.1	19.6	2.4	0.2	1	22	19.1	7.2	
N256010	Drill Core	0.086	10.8	15	2.16	24	0.194	7.50	0.269	1.51	0.4	87.5	27	4.6	15.9	2.7	0.2	1	21	14.6	5.9	
N256011	Drill Core	0.076	12.8	11	2.14	22	0.288	7.20	0.562	2.06	0.6	122.7	31	1.3	17.5	5.1	0.3	<1	17	11.2	6.2	
N256012	Drill Core	0.070	10.9	6	1.61	15	0.162	6.85	0.665	1.93	0.2	103.9	28	1.8	15.5	3.0	0.2	<1	15	6.5	6.7	
N256014	Drill Core	0.073	12.6	13	2.06	22	0.198	7.28	0.370	2.14	0.2	99.9	30	0.9	16.3	3.7	0.3	<1	16	9.4	5.1	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N255983	Drill Core	6.3	2.4	0.38	0.151	51	<0.5	1.2
N255984	Drill Core	5.5	2.0	0.23	0.048	49	<0.5	0.8
N255985	Drill Core	5.3	2.2	0.23	0.143	19	<0.5	0.6
N255986	Rock Pulp	37.5	0.6	0.15	0.375	4	2.8	<0.5
N255987	Drill Core	10.4	2.7	0.26	0.114	42	<0.5	0.9
N255988	Drill Core	11.5	2.6	0.55	0.158	34	<0.5	0.9
N255989	Drill Core	10.5	2.4	0.42	0.025	30	<0.5	0.9
N255990	Drill Core	3.8	2.5	<0.05	0.016	19	<0.5	<0.5
N255991	Drill Core	0.4	2.0	0.09	0.018	13	<0.5	<0.5
N255992	Drill Core	0.4	1.8	0.07	0.014	25	0.9	0.6
N255994	Drill Core	0.4	1.7	0.18	0.027	23	1.1	0.6
N255995	Drill Core	0.3	1.6	0.26	0.037	60	0.9	0.8
N255996	Drill Core	0.5	2.0	0.31	0.141	73	2.2	4.4
N255997	Drill Core	22.7	2.8	0.97	0.015	32	0.5	2.9
N255998	Drill Core	17.0	2.5	0.67	0.020	28	<0.5	1.9
N255999	Drill Core	6.7	2.3	0.38	0.021	25	<0.5	1.1
N256000	Drill Core	21.3	3.5	0.36	0.031	15	0.6	1.7
N256001	Rock Pulp	35.5	0.6	0.07	0.373	<1	1.1	<0.5
N256002	Drill Core	68.5	3.6	0.49	0.047	20	<0.5	3.3
N256003	Drill Core	66.3	2.9	0.29	0.072	20	<0.5	1.8
N256004	Drill Core	48.8	3.3	0.17	0.016	18	0.7	1.2
N256005	Drill Core	62.4	3.0	0.18	0.185	22	0.6	1.4
N256006	Drill Core	55.2	3.0	0.18	0.142	22	0.7	0.8
N256007	Rock	2.2	<0.1	<0.05	<0.005	<1	3.5	<0.5
N256008	Drill Core	43.6	2.8	0.16	0.076	21	0.9	1.1
N256009	Drill Core	34.0	2.8	0.26	0.035	25	0.8	2.5
N256010	Drill Core	49.5	2.3	0.35	0.357	27	0.6	2.6
N256011	Drill Core	79.4	3.3	0.25	0.044	21	1.1	1.4
N256012	Drill Core	74.4	2.6	0.14	0.028	30	1.2	1.6
N256014	Drill Core	70.0	2.5	<0.05	0.010	17	1.1	1.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256015	Drill Core	6.36	4	1.4	111.5	6.9	67	<0.1	13.8	19.6	1170	4.66	<1	2.2	4.2	102	<0.1	0.3	0.2	132	2.56
N256016	Drill Core	6.64	3	2.1	73.8	5.3	72	<0.1	8.7	18.7	1331	5.17	<1	2.4	5.4	264	0.1	0.1	<0.1	139	3.45
N256017	Drill Core	6.82	<2	2.4	61.9	5.4	71	<0.1	7.0	17.9	1438	5.08	<1	2.1	4.7	261	<0.1	<0.1	<0.1	150	2.91
N256018	Drill Core	6.19	<2	1.6	70.6	5.1	79	<0.1	8.3	16.9	1451	4.75	2	2.3	5.4	289	0.3	0.1	<0.1	146	3.00
N256019	Rock Pulp	0.06	585	341.1	3908.6	27.2	114	15.4	27.9	71.4	1478	4.87	1965	2.3	1.5	481	1.1	45.3	14.6	60	6.02
N256020	Drill Core	6.55	4	5.1	69.9	5.0	61	<0.1	8.2	17.1	1360	4.92	<1	2.4	5.0	276	0.2	<0.1	<0.1	135	2.74
N256021	Drill Core	6.93	<2	1.4	61.0	4.2	68	<0.1	8.4	17.5	1313	4.67	<1	2.1	4.7	270	0.1	<0.1	<0.1	135	3.42
N256022	Drill Core	7.43	<2	5.3	66.3	8.0	60	<0.1	8.5	16.5	1184	4.49	<1	2.1	4.7	157	<0.1	0.1	0.1	119	3.42
N256023	Drill Core	7.33	<2	5.5	76.8	11.1	82	<0.1	7.3	16.1	743	4.50	<1	2.0	3.9	82	0.3	0.3	0.2	118	2.29
N256024	Drill Core	8.15	3	2.9	80.3	13.9	117	<0.1	7.9	17.9	526	5.32	<1	2.3	4.5	66	0.5	0.4	0.5	141	2.06
N256025	Rock	1.12	<2	<0.1	1.8	0.4	3	<0.1	1.6	0.7	121	0.10	3	0.2	0.2	85	<0.1	<0.1	<0.1	<1	33.95
N256026	Drill Core	9.56	<2	3.3	89.3	16.2	150	<0.1	9.1	19.1	452	5.63	<1	2.4	4.7	67	0.5	0.3	0.5	149	1.54
N256027	Drill Core	7.57	<2	2.0	70.1	10.2	126	<0.1	7.5	17.0	542	4.86	<1	2.2	4.2	68	0.4	0.4	0.5	145	1.95
N256028	Drill Core	8.22	<2	2.0	66.3	9.4	101	<0.1	7.6	19.3	1183	5.16	<1	2.3	5.1	88	0.2	0.2	0.3	155	3.92
N256029	Drill Core	8.28	2	2.7	89.9	7.2	69	<0.1	5.6	16.7	1033	4.50	8	1.9	3.9	90	0.1	0.3	0.2	136	3.71
N256030	Drill Core	8.43	3	3.1	58.5	6.1	66	<0.1	6.9	16.9	1204	4.64	4	1.9	4.0	180	0.1	0.2	0.1	139	3.99
N256031	Drill Core	3.70	<2	2.8	65.2	6.5	68	<0.1	7.5	17.1	1081	4.73	3	1.7	3.9	242	<0.1	0.2	0.1	141	3.73
N256033	Drill Core	7.78	<2	2.7	64.6	6.4	63	<0.1	8.0	17.0	1311	4.70	2	2.0	4.2	262	0.2	0.2	<0.1	140	3.18
N256034	Drill Core	7.45	<2	3.0	74.0	7.6	67	<0.1	8.2	17.4	1148	4.61	3	2.0	4.3	255	0.2	0.2	<0.1	137	3.15
N256035	Drill Core	8.37	2	2.5	68.9	7.9	76	<0.1	8.4	17.6	1490	4.89	1	2.3	4.8	226	<0.1	0.1	<0.1	144	2.40
N256036	Drill Core	8.25	3	2.7	66.0	9.2	84	<0.1	7.5	17.3	1326	4.64	4	2.2	4.4	193	0.3	0.2	<0.1	138	2.07
N256037	Drill Core	8.20	2	3.1	63.1	13.4	67	<0.1	7.7	17.2	1222	4.65	5	2.2	4.6	172	<0.1	0.3	<0.1	135	2.13
N256038	Rock Pulp	0.06	I.S.	380.8	1882.0	26.1	60	12.0	15.1	9.6	711	3.44	13	1.2	2.3	439	0.4	32.5	1.8	81	2.68
N256039	Drill Core	7.20	4	2.7	65.0	8.8	71	<0.1	6.9	17.1	1459	4.70	3	2.4	5.0	189	<0.1	0.3	<0.1	143	2.13
N256040	Drill Core	7.80	3	2.7	66.5	7.9	78	<0.1	7.6	17.9	1365	4.56	4	2.1	4.5	164	0.3	0.3	<0.1	137	2.04
N256041	Drill Core	7.51	2	3.6	72.3	7.5	64	<0.1	7.9	16.4	1414	4.72	3	2.2	4.4	206	<0.1	0.2	<0.1	139	2.56
N256042	Rock Pulp	0.06	609	332.4	3914.8	28.9	111	14.2	26.3	69.4	1443	4.54	2105	2.3	1.4	470	0.8	41.5	14.0	55	5.84
N256043	Drill Core	6.64	<2	1.9	87.5	6.3	71	0.1	7.6	16.8	1629	4.85	4	2.0	4.3	199	<0.1	0.3	<0.1	153	2.48
N256044	Drill Core	8.08	6	1.5	122.2	4.7	74	<0.1	9.6	22.4	1566	5.67	<1	1.9	3.9	241	<0.1	0.1	<0.1	174	2.78
N256045	Drill Core	3.51	9	1.1	118.9	6.3	78	<0.1	9.2	15.1	1347	4.73	4	1.4	2.9	56	0.2	0.2	0.2	176	1.53



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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256015	Drill Core	0.073	13.3	20	2.33	35	0.256	7.56	0.542	1.88	0.2	102.7	31	0.7	20.0	4.8	0.3	<1	18	11.0	4.4
N256016	Drill Core	0.086	15.9	11	2.27	39	0.309	8.03	1.924	1.88	0.3	143.1	36	0.4	24.6	5.9	0.4	<1	19	11.2	4.1
N256017	Drill Core	0.081	14.9	9	2.44	84	0.388	7.80	2.053	1.55	0.3	125.2	34	0.5	24.1	6.8	0.5	<1	20	9.7	2.2
N256018	Drill Core	0.085	16.6	11	2.26	54	0.383	7.67	2.004	1.65	0.2	117.4	36	0.6	24.1	7.4	0.5	<1	18	8.6	2.1
N256019	Rock Pulp	0.063	16.0	33	0.80	467	0.151	5.94	1.740	1.66	3.7	21.8	24	3.1	9.0	1.7	<0.1	1	6	12.2	0.6
N256020	Drill Core	0.084	14.3	10	2.22	45	0.348	7.57	2.166	1.88	0.3	121.3	33	0.7	23.8	6.8	0.5	<1	17	8.9	2.7
N256021	Drill Core	0.077	13.8	10	1.96	36	0.337	7.30	1.859	1.80	0.2	124.2	32	0.5	22.9	6.0	0.5	<1	17	7.8	3.3
N256022	Drill Core	0.077	12.9	9	1.96	27	0.283	6.93	1.156	1.93	0.4	125.8	30	1.2	22.5	5.5	0.4	<1	17	13.3	5.0
N256023	Drill Core	0.068	12.4	7	1.20	20	0.234	6.66	0.315	1.93	0.5	114.1	30	2.5	19.8	4.5	0.4	<1	16	6.3	5.2
N256024	Drill Core	0.082	14.5	7	1.06	19	0.290	7.64	0.096	2.46	0.6	134.2	33	1.8	21.5	5.5	0.4	<1	20	9.4	6.3
N256025	Rock	0.007	2.2	2	1.59	25	0.005	0.28	0.092	0.13	<0.1	3.7	2	0.1	2.7	0.5	<0.1	<1	<1	0.9	<0.1
N256026	Drill Core	0.081	14.7	7	1.26	16	0.305	7.53	0.137	1.69	0.8	142.2	34	2.0	27.0	5.9	0.4	<1	20	14.6	6.6
N256027	Drill Core	0.076	13.2	7	1.31	16	0.349	7.12	0.107	1.89	0.6	120.3	31	3.1	21.8	6.5	0.5	<1	18	8.0	6.1
N256028	Drill Core	0.090	15.1	9	1.55	39	0.425	7.89	0.063	1.97	0.7	133.1	35	1.8	24.6	7.4	0.5	<1	19	10.8	6.0
N256029	Drill Core	0.075	12.4	7	1.29	42	0.389	7.21	0.110	1.83	0.5	113.0	28	2.9	20.4	6.4	0.4	<1	16	9.2	5.2
N256030	Drill Core	0.072	12.6	7	1.54	29	0.367	7.47	0.865	1.59	0.6	125.3	29	1.3	23.4	6.6	0.4	<1	17	6.4	5.0
N256031	Drill Core	0.075	12.5	10	1.59	32	0.400	7.52	1.550	1.49	0.6	120.9	29	1.1	22.0	6.6	0.5	<1	17	6.5	4.8
N256033	Drill Core	0.075	12.1	9	1.89	44	0.387	7.48	1.961	1.66	0.6	134.6	30	1.3	20.9	6.9	0.5	<1	16	6.9	4.0
N256034	Drill Core	0.078	12.1	8	1.76	31	0.375	7.40	1.982	1.81	0.6	130.0	30	2.2	21.7	6.3	0.5	<1	17	8.8	4.4
N256035	Drill Core	0.078	14.9	9	2.26	36	0.386	8.03	2.326	1.65	0.6	136.0	34	1.6	22.8	6.8	0.5	<1	17	10.6	3.9
N256036	Drill Core	0.078	12.6	8	2.10	27	0.362	7.68	2.203	1.65	0.5	134.4	30	1.9	21.3	6.8	0.5	<1	16	11.0	4.4
N256037	Drill Core	0.079	13.1	7	1.88	25	0.356	7.53	2.096	1.71	0.5	130.6	31	1.8	22.1	7.0	0.5	<1	16	8.7	4.7
N256038	Rock Pulp	0.052	8.2	18	0.82	697	0.190	6.98	2.131	1.71	1.5	9.1	19	2.9	10.3	2.3	0.1	<1	8	8.1	0.3
N256039	Drill Core	0.077	15.0	11	2.07	31	0.408	7.35	2.067	1.46	0.5	138.1	34	1.5	24.6	7.5	0.5	<1	18	9.6	3.9
N256040	Drill Core	0.081	13.0	9	2.28	25	0.402	7.47	1.735	1.34	0.5	131.0	32	1.6	21.3	7.3	0.5	1	16	9.3	4.3
N256041	Drill Core	0.079	11.9	10	2.06	32	0.400	7.62	1.548	1.80	0.5	147.7	29	1.3	22.8	7.8	0.5	<1	17	7.9	3.6
N256042	Rock Pulp	0.058	15.1	31	0.74	261	0.138	5.95	1.661	1.57	4.0	19.6	23	3.0	8.2	1.6	0.1	<1	6	12.1	0.6
N256043	Drill Core	0.072	12.9	11	2.22	78	0.429	7.90	0.831	1.75	0.4	113.6	30	0.9	21.8	7.7	0.5	1	17	6.6	1.6
N256044	Drill Core	0.083	12.5	12	2.39	103	0.429	8.30	0.588	1.39	0.2	79.6	29	0.7	22.9	6.9	0.5	1	19	7.1	1.6
N256045	Drill Core	0.074	11.7	12	1.93	36	0.300	8.19	0.056	2.12	0.1	58.0	29	1.4	19.3	3.9	0.2	1	23	8.1	3.7



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256015	Drill Core	57.3	2.7	0.13	<0.005	16	0.7	1.1
N256016	Drill Core	54.6	4.0	0.09	<0.005	16	0.7	0.7
N256017	Drill Core	40.8	3.4	<0.05	0.008	10	0.5	0.6
N256018	Drill Core	43.3	3.3	0.06	<0.005	6	0.6	0.5
N256019	Rock Pulp	38.3	0.7	0.15	0.357	4	2.8	<0.5
N256020	Drill Core	50.3	3.3	<0.05	0.033	11	1.0	0.8
N256021	Drill Core	46.7	3.5	<0.05	<0.005	10	0.7	0.7
N256022	Drill Core	59.2	3.4	<0.05	0.008	29	0.9	1.3
N256023	Drill Core	72.7	3.0	0.07	0.013	40	0.9	1.6
N256024	Drill Core	87.1	3.4	0.08	0.008	43	1.1	1.9
N256025	Rock	3.3	0.1	<0.05	<0.005	<1	3.8	<0.5
N256026	Drill Core	56.2	3.7	0.13	<0.005	46	0.9	1.4
N256027	Drill Core	64.6	3.2	0.12	0.008	38	1.0	1.4
N256028	Drill Core	63.4	3.8	0.11	<0.005	37	1.3	1.2
N256029	Drill Core	67.4	3.0	0.05	0.013	29	1.3	0.9
N256030	Drill Core	50.5	3.3	0.10	<0.005	21	0.7	0.9
N256031	Drill Core	46.2	3.3	0.10	<0.005	19	0.7	0.7
N256033	Drill Core	42.7	3.7	0.06	<0.005	18	0.8	0.6
N256034	Drill Core	47.1	3.6	<0.05	<0.005	20	0.9	0.8
N256035	Drill Core	46.5	3.8	0.06	<0.005	16	0.7	0.9
N256036	Drill Core	53.3	3.8	0.10	<0.005	18	<0.5	0.9
N256037	Drill Core	63.2	3.6	0.08	<0.005	16	1.0	1.1
N256038	Rock Pulp	36.6	0.5	0.10	0.369	<1	1.4	<0.5
N256039	Drill Core	49.2	3.9	0.11	<0.005	10	0.9	0.9
N256040	Drill Core	47.0	3.5	0.07	<0.005	15	0.8	0.8
N256041	Drill Core	51.6	3.9	<0.05	<0.005	10	0.7	0.8
N256042	Rock Pulp	36.0	0.6	0.22	0.366	3	2.6	<0.5
N256043	Drill Core	51.7	3.1	0.12	<0.005	7	<0.5	0.9
N256044	Drill Core	31.4	2.2	<0.05	0.010	8	0.6	0.7
N256045	Drill Core	45.9	1.5	0.06	<0.005	13	0.8	1.2



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256047	Drill Core	8.42	6	2.1	116.7	7.1	80	<0.1	8.8	12.9	883	4.76	4	1.5	3.3	51	0.2	0.2	0.2	156	1.41
N256048	Drill Core	8.95	4	1.6	71.7	7.2	68	<0.1	9.9	15.8	1058	4.64	4	1.7	3.4	88	0.2	0.2	0.4	162	2.33
N256049	Drill Core	8.45	7	4.0	69.1	7.3	97	<0.1	8.3	17.5	968	4.98	4	1.3	3.1	129	0.2	0.2	0.4	141	2.84
N256050	Drill Core	8.69	4	5.6	99.8	9.3	170	<0.1	8.4	17.8	509	6.72	5	1.3	3.0	78	0.3	0.3	0.5	121	2.07
N256051	Drill Core	7.79	4	6.5	99.3	11.0	110	<0.1	8.7	16.1	330	4.70	<1	1.3	2.8	125	0.2	0.4	0.3	154	2.02
N256052	Drill Core	8.86	6	5.6	98.3	8.2	46	<0.1	11.3	20.8	292	6.35	6	1.9	3.9	71	0.4	0.3	0.2	137	2.00
N256053	Drill Core	8.88	2	2.9	66.6	20.2	84	<0.1	8.4	20.0	213	5.91	<1	0.9	1.9	79	0.7	0.3	0.5	138	1.12
N256054	Drill Core	8.11	<2	2.4	56.4	22.5	109	<0.1	7.9	18.8	121	5.79	5	0.8	1.8	145	1.1	0.4	0.7	155	0.49
N256055	Rock Pulp	0.06	195	375.5	1894.5	25.7	56	12.5	14.5	9.5	748	3.64	12	1.0	2.0	439	0.9	34.5	2.1	82	2.68
N256056	Drill Core	8.88	2	2.1	53.9	49.6	278	<0.1	7.8	18.2	48	5.79	2	0.6	1.6	285	2.5	0.5	0.6	144	0.51
N256057	Drill Core	8.76	<2	2.3	58.9	53.5	132	<0.1	8.7	22.2	33	6.01	3	0.9	2.2	503	1.6	0.5	0.6	167	0.14
N256058	Drill Core	6.80	<2	2.8	59.6	64.9	143	<0.1	10.3	22.0	22	6.27	<1	0.7	1.9	467	1.2	0.4	0.5	159	0.21
N256059	Drill Core	7.00	<2	2.3	50.2	20.3	100	<0.1	6.3	20.1	35	5.60	<1	1.0	2.2	275	0.4	0.3	0.7	136	0.13
N256060	Drill Core	7.61	<2	1.9	83.9	19.3	40	<0.1	9.6	20.9	50	6.03	6	1.7	3.7	413	<0.1	0.8	3.0	180	0.48
N256061	Rock	1.07	<2	<0.1	1.4	0.4	4	<0.1	1.7	0.5	112	0.10	<1	0.1	<0.1	86	<0.1	<0.1	<0.1	<1	33.77
N256062	Drill Core	7.92	3	1.5	48.2	58.5	6	<0.1	6.6	16.4	33	4.92	5	0.6	2.2	896	<0.1	0.4	0.6	125	0.86
N256063	Drill Core	8.29	2	3.2	43.5	51.0	18	<0.1	7.0	14.6	31	3.76	3	1.5	4.7	836	0.2	0.5	0.7	110	0.54
N256064	Drill Core	8.34	4	2.9	56.5	106.4	19	<0.1	10.6	16.7	23	4.50	<1	1.2	3.0	1227	0.2	0.7	0.6	130	0.46
N256065	Drill Core	8.37	<2	2.8	92.2	21.4	63	<0.1	13.0	17.7	33	5.41	5	2.4	5.3	448	0.5	0.6	0.5	121	0.40
N256066	Drill Core	3.44	<2	4.2	110.5	18.1	114	<0.1	16.6	22.8	33	5.68	6	2.9	5.9	198	0.6	0.4	0.7	129	0.12
N256068	Drill Core	7.98	<2	4.1	111.3	16.2	125	<0.1	15.7	21.7	29	5.30	4	3.1	6.4	248	0.8	0.3	0.7	138	0.16
N256069	Drill Core	8.19	<2	3.9	101.4	15.3	62	<0.1	16.0	22.5	25	5.33	4	3.1	6.7	352	0.1	0.5	0.6	143	0.11
N256070	Drill Core	8.05	<2	4.1	102.9	13.8	70	<0.1	16.1	23.8	32	5.40	4	3.4	7.2	239	0.3	0.4	0.9	143	0.09
N256071	Drill Core	7.96	<2	4.0	93.2	17.9	89	<0.1	17.4	24.1	41	5.44	5	3.4	5.7	220	0.5	0.3	1.4	146	0.11
N256072	Drill Core	7.57	<2	4.0	68.5	50.9	32	<0.1	11.0	13.8	30	3.65	3	2.8	6.2	568	0.3	0.3	1.3	114	0.49
N256073	Rock Pulp	0.06	621	333.4	3883.7	28.8	106	15.1	27.1	70.9	1483	4.81	2172	2.3	1.3	440	1.0	42.0	15.1	58	5.99
N256074	Drill Core	8.44	<2	4.3	95.3	14.8	107	<0.1	17.0	21.4	50	5.30	6	3.4	5.8	178	0.3	0.3	1.5	152	0.22
N256075	Drill Core	8.52	<2	3.9	99.4	11.3	131	<0.1	15.5	20.7	251	5.22	6	3.3	5.0	45	0.2	0.4	0.4	149	0.48
N256076	Drill Core	9.01	<2	3.8	96.3	7.5	89	<0.1	15.6	20.7	861	5.01	5	3.1	4.8	50	0.1	0.4	0.4	144	0.45
N256077	Drill Core	8.38	<2	4.1	74.0	13.5	56	<0.1	12.2	15.2	142	3.96	4	2.9	4.2	254	0.2	0.2	0.6	124	0.36



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N256047	Drill Core	0.061	11.0	8	1.32	23	0.262	8.11	0.043	2.34	0.2	63.1	28	0.8	18.1	3.3	0.3	<1	21	5.0	4.8
N256048	Drill Core	0.075	9.6	9	1.92	22	0.357	7.51	0.067	1.65	0.3	73.0	24	1.2	18.5	5.7	0.3	<1	21	8.8	5.7
N256049	Drill Core	0.081	9.8	8	1.19	32	0.299	8.22	0.116	1.46	0.4	60.2	25	1.4	16.1	4.1	0.3	<1	13	6.0	6.3
N256050	Drill Core	0.066	12.1	8	1.13	17	0.253	7.13	0.081	1.39	0.2	59.4	30	1.2	12.7	3.5	0.2	<1	13	5.7	8.6
N256051	Drill Core	0.070	13.0	9	1.14	22	0.298	7.96	0.171	1.09	0.7	53.1	30	1.0	14.4	3.6	0.3	<1	20	5.6	6.5
N256052	Drill Core	0.076	14.0	11	1.44	18	0.261	7.61	0.069	1.24	0.4	75.4	32	1.9	15.7	4.1	0.3	<1	18	6.2	8.2
N256053	Drill Core	0.086	8.0	6	1.16	19	0.230	7.81	0.185	1.59	0.2	39.7	21	2.5	13.9	3.0	0.2	<1	16	4.9	7.1
N256054	Drill Core	0.072	6.2	7	0.64	16	0.199	7.60	0.133	1.52	0.2	37.5	17	4.0	15.1	2.5	0.2	<1	18	3.9	6.6
N256055	Rock Pulp	0.056	8.1	18	0.82	751	0.196	7.11	2.128	1.79	1.7	9.5	19	2.9	10.5	2.4	0.2	<1	9	7.5	0.3
N256056	Drill Core	0.087	9.3	9	0.15	19	0.195	8.35	0.084	1.29	0.1	33.8	23	3.5	14.6	2.5	0.2	<1	16	4.4	6.5
N256057	Drill Core	0.102	12.1	10	0.05	22	0.350	9.25	0.078	0.52	0.2	41.8	28	4.5	6.5	4.9	0.3	<1	15	6.5	6.6
N256058	Drill Core	0.092	10.4	11	0.01	13	0.226	10.21	0.037	0.03	0.2	37.8	24	3.9	7.5	2.7	0.2	<1	12	4.3	6.9
N256059	Drill Core	0.095	9.6	6	0.03	16	0.292	9.74	0.080	0.17	0.2	44.3	25	2.4	12.4	4.2	0.3	<1	15	2.7	6.1
N256060	Drill Core	0.052	9.7	9	0.09	18	0.359	8.51	0.064	0.80	0.4	91.7	23	8.2	15.4	5.5	0.3	<1	23	1.7	6.6
N256061	Rock	0.007	1.4	1	1.69	20	0.006	0.10	0.023	0.02	<0.1	1.2	1	<0.1	2.3	0.2	<0.1	<1	<1	0.5	<0.1
N256062	Drill Core	0.089	10.8	10	0.01	14	0.191	7.47	0.048	0.03	0.8	23.3	24	2.7	4.2	2.7	0.1	<1	9	3.7	5.5
N256063	Drill Core	0.077	15.3	10	0.01	23	0.231	7.85	0.043	0.03	0.3	57.5	33	4.2	6.7	4.5	0.3	<1	10	2.9	4.1
N256064	Drill Core	0.134	16.6	12	0.01	20	0.194	8.84	0.033	0.02	0.3	58.1	41	4.0	7.1	2.7	0.2	<1	8	3.6	5.1
N256065	Drill Core	0.055	11.5	18	<0.01	15	0.290	8.26	0.025	0.02	0.5	123.8	29	3.3	11.9	6.6	0.4	<1	12	2.0	5.8
N256066	Drill Core	0.032	14.3	18	<0.01	14	0.375	9.67	0.018	0.02	0.6	135.9	33	3.7	17.0	8.6	0.6	<1	15	2.0	6.2
N256068	Drill Core	0.053	16.4	22	0.01	13	0.408	9.71	0.018	0.02	0.7	136.5	36	2.6	15.6	9.0	0.6	<1	15	3.1	5.9
N256069	Drill Core	0.078	16.4	20	0.01	15	0.393	10.02	0.018	0.02	0.8	138.6	37	3.2	16.8	9.0	0.7	<1	20	2.4	6.0
N256070	Drill Core	0.068	18.9	22	0.02	16	0.408	10.23	0.025	0.06	0.8	151.1	42	2.6	19.8	9.3	0.7	<1	21	2.9	6.1
N256071	Drill Core	0.053	11.9	23	0.07	17	0.368	10.16	0.052	0.72	0.9	160.5	31	2.2	18.7	8.7	0.6	<1	20	2.3	6.2
N256072	Drill Core	0.080	16.0	19	0.01	24	0.287	9.04	0.031	0.02	0.6	151.0	37	3.9	12.5	6.3	0.5	<1	12	3.0	4.1
N256073	Rock Pulp	0.057	15.7	31	0.75	275	0.145	5.82	1.723	1.54	4.3	19.9	23	3.2	9.3	1.7	0.1	1	5	11.3	0.6
N256074	Drill Core	0.060	13.1	23	0.07	16	0.432	9.71	0.032	0.69	0.8	153.9	33	2.7	26.7	9.8	0.7	<1	20	3.0	6.0
N256075	Drill Core	0.079	6.9	24	1.28	16	0.473	8.73	0.030	1.90	0.8	160.0	19	2.5	22.9	10.6	0.7	1	18	2.6	5.9
N256076	Drill Core	0.077	9.9	18	0.88	18	0.442	8.35	0.044	2.43	0.7	144.9	26	3.1	24.5	9.5	0.6	1	18	2.2	5.7
N256077	Drill Core	0.090	6.9	19	0.87	27	0.374	8.55	0.035	1.29	0.6	150.3	19	2.3	16.2	8.2	0.6	<1	16	4.3	4.5



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256047	Drill Core	54.7	1.8	<0.05	0.014	18	0.6	1.1
N256048	Drill Core	41.5	1.9	0.11	0.009	25	1.0	1.1
N256049	Drill Core	40.8	1.8	0.09	0.021	24	0.9	1.1
N256050	Drill Core	34.4	1.7	0.14	0.032	48	1.6	1.2
N256051	Drill Core	25.3	1.6	<0.05	0.026	40	3.2	1.6
N256052	Drill Core	33.0	2.1	0.10	0.026	46	1.1	1.9
N256053	Drill Core	43.9	1.3	0.29	0.019	26	0.6	2.9
N256054	Drill Core	40.1	1.1	0.43	0.015	19	0.7	3.6
N256055	Rock Pulp	37.5	0.6	0.10	0.418	<1	1.0	<0.5
N256056	Drill Core	35.2	1.0	0.43	0.012	16	<0.5	3.5
N256057	Drill Core	12.2	1.2	0.38	0.096	12	<0.5	1.5
N256058	Drill Core	0.7	1.1	0.48	0.096	14	<0.5	<0.5
N256059	Drill Core	3.6	1.2	0.16	0.060	18	<0.5	<0.5
N256060	Drill Core	22.0	2.6	0.37	0.007	15	0.8	2.0
N256061	Rock	0.6	<0.1	<0.05	<0.005	<1	3.9	<0.5
N256062	Drill Core	0.5	0.6	<0.05	<0.005	9	<0.5	<0.5
N256063	Drill Core	0.6	1.6	0.19	0.007	7	0.6	<0.5
N256064	Drill Core	0.4	1.6	0.12	<0.005	16	0.6	<0.5
N256065	Drill Core	0.5	3.4	0.24	<0.005	10	0.6	<0.5
N256066	Drill Core	0.8	4.4	0.35	<0.005	12	0.8	<0.5
N256068	Drill Core	0.7	4.4	0.33	<0.005	12	0.7	<0.5
N256069	Drill Core	1.0	4.6	0.19	0.009	12	0.8	<0.5
N256070	Drill Core	2.1	4.8	0.28	<0.005	11	<0.5	<0.5
N256071	Drill Core	21.7	5.1	0.18	0.014	10	<0.5	0.9
N256072	Drill Core	0.8	4.7	0.07	<0.005	8	<0.5	<0.5
N256073	Rock Pulp	36.9	0.7	0.19	0.348	4	3.1	<0.5
N256074	Drill Core	19.2	4.9	0.10	<0.005	14	<0.5	0.7
N256075	Drill Core	52.7	5.1	0.13	<0.005	14	0.5	1.3
N256076	Drill Core	72.1	4.8	0.08	<0.005	15	0.8	1.2
N256077	Drill Core	31.3	4.7	0.06	<0.005	10	0.8	0.8



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256078	Drill Core	8.39	<2	4.1	97.4	8.9	56	<0.1	16.9	20.2	133	5.18	7	3.4	5.4	56	0.2	0.8	1.3	152	0.43
N256079	Rock	1.46	<2	<0.1	2.1	0.5	3	<0.1	0.9	0.6	119	0.11	<1	0.3	<0.1	78	<0.1	<0.1	<0.1	<1	34.63
N256080	Drill Core	8.74	<2	3.8	94.7	9.6	86	<0.1	15.4	19.8	1062	5.06	5	3.2	7.3	57	0.2	0.4	0.4	146	0.47
N256081	Drill Core	8.74	<2	3.5	85.0	9.1	69	<0.1	14.0	19.1	1248	5.01	4	2.9	5.4	40	0.1	0.4	0.6	140	0.66
N256082	Drill Core	8.71	<2	3.7	89.2	9.2	61	<0.1	14.7	19.6	747	4.97	5	2.8	4.5	48	0.1	0.4	0.8	141	0.51
N256083	Drill Core	8.97	<2	3.8	83.5	7.8	74	<0.1	13.9	20.1	1298	5.00	4	2.8	4.9	56	0.1	0.4	0.3	141	0.93
N253425	Drill Core	3.35	2	1.8	52.6	11.4	66	<0.1	10.3	20.1	489	5.49	2	0.9	2.2	92	0.1	0.3	0.3	134	2.16
N253436	Drill Core	3.66	<2	2.4	88.0	35.5	177	<0.1	12.1	21.2	532	6.39	13	0.9	1.5	114	0.6	0.5	0.5	95	0.57
N253455	Drill Core	3.58	3	2.1	51.4	12.8	71	<0.1	9.6	17.9	661	5.09	3	0.8	2.2	180	0.5	0.7	0.3	128	2.81
N253478	Drill Core	3.21	3	14.2	58.1	14.1	53	0.2	6.7	6.0	467	3.32	2	0.7	1.6	38	0.3	1.6	0.2	66	0.31
N253499	Drill Core	3.03	3	9.9	83.4	8.2	72	<0.1	6.4	15.7	1167	4.83	<1	2.2	2.9	322	0.2	0.2	0.5	181	1.88
N253520	Drill Core	3.80	3	1.6	57.2	10.1	94	<0.1	6.2	16.1	1348	4.79	3	1.9	4.2	379	0.4	0.2	0.2	144	2.18
N253545	Drill Core	3.88	<2	1.8	44.8	6.5	96	<0.1	5.5	17.7	1481	5.11	3	1.6	3.3	344	<0.1	0.2	0.2	148	2.19



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CERTIFICATE OF ANALYSIS

VAN18003682.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	
N256078	Drill Core	0.078	10.4	18	0.88	20	0.462	8.56	0.047	1.76	0.8	149.0	26	4.3	34.7	10.3	0.7	<1	19	2.4	5.9
N256079	Rock	0.007	1.5	1	2.12	28	0.006	0.13	0.039	0.05	<0.1	2.2	1	0.1	2.5	0.3	<0.1	<1	<1	0.9	<0.1
N256080	Drill Core	0.087	17.9	16	2.38	718	0.484	9.15	0.039	2.20	0.8	155.0	40	2.0	35.2	10.8	0.7	1	20	6.1	5.5
N256081	Drill Core	0.080	14.3	17	2.60	77	0.464	8.11	0.039	2.40	0.8	138.3	35	1.8	22.1	10.3	0.7	1	18	6.6	5.1
N256082	Drill Core	0.082	11.4	20	1.61	26	0.459	8.18	0.052	2.45	0.9	137.4	29	2.7	20.9	10.3	0.7	<1	17	4.0	5.3
N256083	Drill Core	0.080	11.7	21	2.39	31	0.452	8.12	0.056	2.11	0.6	131.7	29	2.2	20.8	9.9	0.7	<1	17	7.8	5.4
N253425	Drill Core	0.073	9.0	8	2.17	19	0.159	8.37	0.594	0.80	0.2	51.5	22	1.0	8.3	2.1	0.1	<1	19	10.8	7.4
N253436	Drill Core	0.104	5.4	5	0.89	15	0.093	9.68	2.306	1.70	0.1	52.9	16	1.8	13.1	1.1	<0.1	<1	18	7.0	7.2
N253455	Drill Core	0.074	9.2	6	1.90	21	0.149	8.27	1.626	1.21	0.2	51.7	23	1.1	9.4	1.5	<0.1	<1	19	10.8	7.4
N253478	Drill Core	0.061	6.4	7	1.15	27	0.210	4.96	0.794	1.33	0.7	38.4	14	2.0	10.5	2.3	0.1	<1	10	15.6	3.6
N253499	Drill Core	0.081	14.3	13	1.15	23	0.390	9.23	3.142	1.66	0.5	91.0	37	3.8	17.2	5.5	0.3	<1	10	5.1	4.8
N253520	Drill Core	0.081	13.9	8	1.70	33	0.409	8.21	2.644	1.73	0.4	97.9	31	1.5	20.8	7.3	0.5	<1	16	9.3	3.1
N253545	Drill Core	0.088	12.2	7	1.73	32	0.399	8.48	2.836	1.67	0.5	90.9	29	1.4	19.4	6.1	0.4	1	15	11.2	3.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N256078	Drill Core	51.0	5.1	0.12	<0.005	14	0.8	1.2
N256079	Rock	1.5	<0.1	<0.05	<0.005	<1	7.6	<0.5
N256080	Drill Core	70.2	5.2	0.09	<0.005	16	1.3	1.1
N256081	Drill Core	61.8	4.4	0.08	<0.005	13	1.0	1.1
N256082	Drill Core	62.0	4.3	0.14	<0.005	13	0.8	1.1
N256083	Drill Core	45.0	4.3	0.10	<0.005	18	1.0	0.8
N253425	Drill Core	15.8	1.5	0.12	<0.005	17	0.6	0.8
N253436	Drill Core	49.2	1.5	0.09	0.010	22	<0.5	1.7
N253455	Drill Core	28.1	1.5	<0.05	0.010	25	<0.5	1.1
N253478	Drill Core	49.3	1.2	<0.05	0.072	11	<0.5	1.3
N253499	Drill Core	46.2	2.7	0.16	0.035	21	1.4	0.6
N253520	Drill Core	54.7	2.9	0.08	<0.005	11	1.1	0.6
N253545	Drill Core	54.9	2.5	0.09	<0.005	7	0.9	0.6



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QUALITY CONTROL REPORT

VAN18003682.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N255932	Drill Core	4.88	10	5.7	152.2	27.7	14	<0.1	1.7	0.9	36	12.44	8	1.4	3.7	642	0.2	1.4	1.0	318	0.13
REP N255932	QC		7																		
N255942	Drill Core	6.73	21	33.0	54.7	49.5	2	<0.1	3.0	6.5	17	3.08	14	0.7	2.4	442	<0.1	0.6	1.1	133	0.09
REP N255942	QC		20																		
N255944	Drill Core	7.81	13	78.3	41.1	13.6	6	<0.1	1.2	2.8	25	1.53	6	0.7	1.2	124	<0.1	0.5	0.5	41	0.03
REP N255944	QC			77.7	41.8	13.3	6	<0.1	1.5	2.7	25	1.53	6	0.7	1.3	123	<0.1	0.5	0.6	40	0.02
N255978	Drill Core	5.51	5	3.9	194.2	15.4	43	<0.1	2.8	5.7	14	1.53	10	3.5	7.0	107	0.4	0.3	0.3	108	0.05
REP N255978	QC		5																		
N255980	Drill Core	6.22	11	8.4	471.9	91.0	25	0.1	2.5	6.8	17	2.69	11	4.3	7.6	382	0.6	0.4	0.3	121	0.13
REP N255980	QC			8.5	473.8	91.8	29	0.1	2.9	6.9	17	2.71	12	4.3	7.8	381	0.5	0.5	0.3	120	0.10
N256016	Drill Core	6.64	3	2.1	73.8	5.3	72	<0.1	8.7	18.7	1331	5.17	<1	2.4	5.4	264	0.1	0.1	<0.1	139	3.45
REP N256016	QC		<2																		
N256018	Drill Core	6.19	<2	1.6	70.6	5.1	79	<0.1	8.3	16.9	1451	4.75	2	2.3	5.4	289	0.3	0.1	<0.1	146	3.00
REP N256018	QC			1.9	72.2	5.5	86	<0.1	8.0	17.8	1519	5.02	3	2.3	5.1	296	0.2	0.2	<0.1	151	3.16
N256053	Drill Core	8.88	2	2.9	66.6	20.2	84	<0.1	8.4	20.0	213	5.91	<1	0.9	1.9	79	0.7	0.3	0.5	138	1.12
REP N256053	QC		3																		
N256055	Rock Pulp	0.06	195	375.5	1894.5	25.7	56	12.5	14.5	9.5	748	3.64	12	1.0	2.0	439	0.9	34.5	2.1	82	2.68
REP N256055	QC			377.2	1864.8	25.8	62	12.2	14.6	10.0	751	3.53	14	1.0	2.0	450	0.7	34.0	1.9	83	2.67
N256081	Drill Core	8.74	<2	3.5	85.0	9.1	69	<0.1	14.0	19.1	1248	5.01	4	2.9	5.4	40	0.1	0.4	0.6	140	0.66
REP N256081	QC		<2																		
N256083	Drill Core	8.97	<2	3.8	83.5	7.8	74	<0.1	13.9	20.1	1298	5.00	4	2.8	4.9	56	0.1	0.4	0.3	141	0.93
REP N256083	QC			4.1	84.4	7.7	75	<0.1	14.2	19.3	1306	4.94	3	2.7	4.6	52	0.2	0.4	0.3	141	0.93
Core Reject Duplicates																					
N255951	Drill Core	8.17	6	12.5	128.2	71.8	4	0.2	6.4	16.4	13	6.09	7	2.6	6.4	483	0.1	0.4	0.6	143	0.15
DUP N255951	QC		6	11.4	123.5	69.3	5	0.2	5.9	15.3	13	5.92	6	2.6	6.6	465	<0.1	0.4	0.5	140	0.16
N256022	Drill Core	7.43	<2	5.3	66.3	8.0	60	<0.1	8.5	16.5	1184	4.49	<1	2.1	4.7	157	<0.1	0.1	0.1	119	3.42
DUP N256022	QC		2	5.0	66.2	8.2	63	<0.1	8.1	17.8	1241	4.67	<1	2.2	5.2	165	<0.1	0.2	0.1	129	3.58
N256058	Drill Core	6.80	<2	2.8	59.6	64.9	143	<0.1	10.3	22.0	22	6.27	<1	0.7	1.9	467	1.2	0.4	0.5	159	0.21



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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N255932	Drill Core	0.133	10.9	31	0.03	480	0.454	7.91	0.010	0.08	0.3	89.8	27	4.4	19.1	4.9	0.4	<1	16	0.9	0.3
REP N255932	QC																				
N255942	Drill Core	0.052	10.8	14	<0.01	34	0.154	6.19	0.047	0.43	0.4	48.1	25	5.3	3.4	1.9	0.1	<1	5	0.9	1.8
REP N255942	QC																				
N255944	Drill Core	0.010	2.6	6	<0.01	553	0.173	1.75	0.005	0.02	0.3	48.8	5	3.7	4.7	2.1	<0.1	<1	4	0.5	<0.1
REP N255944	QC	0.011	2.5	6	<0.01	575	0.159	1.78	0.005	0.02	0.2	46.2	5	3.8	4.5	2.0	<0.1	<1	3	0.5	<0.1
N255978	Drill Core	0.042	17.3	5	0.03	92	0.411	8.22	0.127	1.10	1.4	94.8	38	2.6	25.5	8.6	0.7	<1	27	3.1	1.4
REP N255978	QC																				
N255980	Drill Core	0.105	22.2	8	0.02	31	0.381	7.67	0.109	0.88	1.4	85.2	50	3.1	39.4	12.5	0.7	<1	25	5.2	2.8
REP N255980	QC	0.105	22.5	8	0.02	33	0.383	7.95	0.111	0.88	1.4	83.5	53	3.1	39.7	12.6	0.7	<1	26	5.2	2.8
N256016	Drill Core	0.086	15.9	11	2.27	39	0.309	8.03	1.924	1.88	0.3	143.1	36	0.4	24.6	5.9	0.4	<1	19	11.2	4.1
REP N256016	QC																				
N256018	Drill Core	0.085	16.6	11	2.26	54	0.383	7.67	2.004	1.65	0.2	117.4	36	0.6	24.1	7.4	0.5	<1	18	8.6	2.1
REP N256018	QC	0.084	15.3	11	2.33	91	0.399	8.11	2.051	1.72	0.3	122.6	36	0.5	24.3	7.8	0.5	<1	18	8.6	2.2
N256053	Drill Core	0.086	8.0	6	1.16	19	0.230	7.81	0.185	1.59	0.2	39.7	21	2.5	13.9	3.0	0.2	<1	16	4.9	7.1
REP N256053	QC																				
N256055	Rock Pulp	0.056	8.1	18	0.82	751	0.196	7.11	2.128	1.79	1.7	9.5	19	2.9	10.5	2.4	0.2	<1	9	7.5	0.3
REP N256055	QC	0.053	8.0	20	0.82	723	0.198	7.00	2.110	1.75	1.6	9.4	18	2.7	11.1	2.6	0.2	<1	10	7.0	0.3
N256081	Drill Core	0.080	14.3	17	2.60	77	0.464	8.11	0.039	2.40	0.8	138.3	35	1.8	22.1	10.3	0.7	1	18	6.6	5.1
REP N256081	QC																				
N256083	Drill Core	0.080	11.7	21	2.39	31	0.452	8.12	0.056	2.11	0.6	131.7	29	2.2	20.8	9.9	0.7	<1	17	7.8	5.4
REP N256083	QC	0.081	10.2	22	2.36	26	0.448	7.87	0.056	2.08	0.8	127.0	27	2.0	19.8	10.0	0.7	<1	17	6.7	5.3
Core Reject Duplicates																					
N255951	Drill Core	0.147	25.0	10	<0.01	14	0.358	7.89	0.029	0.11	1.0	62.4	56	2.2	10.7	8.3	0.5	<1	11	1.7	6.8
DUP N255951	QC	0.152	24.8	10	<0.01	13	0.343	7.72	0.028	0.11	1.1	59.3	53	1.7	10.1	7.8	0.5	<1	11	2.1	6.6
N256022	Drill Core	0.077	12.9	9	1.96	27	0.283	6.93	1.156	1.93	0.4	125.8	30	1.2	22.5	5.5	0.4	<1	17	13.3	5.0
DUP N256022	QC	0.083	14.2	8	2.05	27	0.283	7.60	1.139	1.94	0.4	134.8	33	1.1	24.1	5.7	0.4	1	17	12.8	5.1
N256058	Drill Core	0.092	10.4	11	0.01	13	0.226	10.21	0.037	0.03	0.2	37.8	24	3.9	7.5	2.7	0.2	<1	12	4.3	6.9



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N255932	Drill Core	2.1	2.7	0.38	0.009	133	3.3	<0.5
REP N255932	QC							
N255942	Drill Core	0.6	1.3	0.19	0.011	18	<0.5	<0.5
REP N255942	QC							
N255944	Drill Core	0.3	1.4	0.11	0.012	3	0.7	<0.5
REP N255944	QC	0.3	1.3	0.09	0.010	4	0.6	<0.5
N255978	Drill Core	9.6	2.9	0.18	0.044	<1	<0.5	1.5
REP N255978	QC							
N255980	Drill Core	8.2	2.4	0.36	0.149	4	<0.5	1.1
REP N255980	QC	8.0	2.4	0.15	0.146	2	<0.5	1.1
N256016	Drill Core	54.6	4.0	0.09	<0.005	16	0.7	0.7
REP N256016	QC							
N256018	Drill Core	43.3	3.3	0.06	<0.005	6	0.6	0.5
REP N256018	QC	41.1	3.6	0.07	<0.005	8	<0.5	0.5
N256053	Drill Core	43.9	1.3	0.29	0.019	26	0.6	2.9
REP N256053	QC							
N256055	Rock Pulp	37.5	0.6	0.10	0.418	<1	1.0	<0.5
REP N256055	QC	37.9	0.6	0.09	0.407	<1	1.1	<0.5
N256081	Drill Core	61.8	4.4	0.08	<0.005	13	1.0	1.1
REP N256081	QC							
N256083	Drill Core	45.0	4.3	0.10	<0.005	18	1.0	0.8
REP N256083	QC	42.7	4.2	0.09	<0.005	18	1.1	0.8
Core Reject Duplicates								
N255951	Drill Core	0.3	2.0	0.11	0.031	10	0.7	<0.5
DUP N255951	QC	0.3	1.8	0.09	0.036	10	0.8	<0.5
N256022	Drill Core	59.2	3.4	<0.05	0.008	29	0.9	1.3
DUP N256022	QC	63.7	3.5	0.06	0.007	32	0.9	1.5
N256058	Drill Core	0.7	1.1	0.48	0.096	14	<0.5	<0.5



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP N256058	QC		2	2.6	55.5	57.3	133	<0.1	8.2	21.2	21	6.09	1	0.6	1.6	416	1.1	0.4	0.5	144	0.19
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	37.0	26.4	49	<0.1	49.0	8.1	499	6.56	11	3.0	16.9	48	<0.1	0.5	0.4	151	0.30
STD OREAS25A-4A	Standard			2.6	37.0	24.4	46	<0.1	45.4	7.8	501	6.44	10	2.7	15.9	50	0.2	0.6	0.6	148	0.30
STD OREAS25A-4A	Standard			2.8	33.8	26.0	43	<0.1	42.9	7.3	505	6.58	11	3.1	16.2	49	<0.1	0.7	0.3	157	0.31
STD OREAS25A-4A	Standard			1.9	32.6	25.0	44	<0.1	42.7	8.1	491	6.47	7	2.7	15.1	48	<0.1	0.5	0.4	155	0.28
STD OREAS25A-4A	Standard			2.1	37.2	26.4	53	<0.1	45.9	8.4	522	7.12	9	3.1	17.0	49	<0.1	0.7	0.4	179	0.30
STD OREAS45E	Standard			2.4	761.8	20.6	49	0.3	467.7	62.5	550	24.10	19	2.7	14.3	16	<0.1	1.0	0.4	334	0.06
STD OREAS45E	Standard			2.2	771.5	19.2	54	0.3	484.9	59.7	570	24.90	16	2.5	13.4	17	0.2	1.1	0.5	348	0.07
STD OREAS45E	Standard			2.4	777.8	20.3	45	0.3	458.3	54.7	557	23.94	17	2.8	14.0	18	<0.1	1.1	0.3	319	0.08
STD OREAS45E	Standard			2.0	755.8	18.6	44	0.3	448.4	55.1	553	23.41	16	2.6	13.3	17	<0.1	1.0	0.3	306	0.07
STD OREAS45E	Standard			2.5	795.8	19.5	48	0.3	488.4	63.1	584	24.94	17	2.6	14.3	18	<0.1	1.2	0.3	346	0.08
STD OXC145	Standard		213																		
STD OXC145	Standard		214																		
STD OXC145	Standard		206																		
STD OXC145	Standard		209																		
STD OXC145	Standard		206																		
STD OXC145	Standard		214																		
STD OXH139	Standard		1306																		
STD OXH139	Standard		1326																		
STD OXH139	Standard		1330																		
STD OXH139	Standard		1320																		
STD OXH139	Standard		1284																		
STD OXH139	Standard		1286																		
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		6																		



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP N256058	QC	0.089	9.0	9	0.01	20	0.187	9.38	0.033	0.03	0.2	32.4	22	3.2	6.3	2.3	0.2	<1	11	3.4	6.3
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	24.5	114	0.31	163	0.912	9.65	0.132	0.47	2.0	146.9	51	4.0	10.5	19.8	1.5	1	13	38.7	<0.1
STD OREAS25A-4A	Standard	0.045	24.2	112	0.31	145	0.886	9.28	0.138	0.49	1.9	149.5	49	3.9	10.3	18.6	1.4	<1	12	41.0	<0.1
STD OREAS25A-4A	Standard	0.048	22.1	111	0.31	166	0.945	9.31	0.146	0.48	2.1	154.7	49	4.2	10.5	19.8	1.6	1	12	39.8	<0.1
STD OREAS25A-4A	Standard	0.047	19.7	111	0.30	141	0.906	8.76	0.113	0.45	1.7	141.1	44	3.6	9.3	18.2	1.4	<1	12	36.9	<0.1
STD OREAS25A-4A	Standard	0.047	21.2	117	0.33	154	1.071	9.54	0.125	0.50	2.0	161.2	50	4.1	10.4	20.3	1.6	1	12	43.3	<0.1
STD OREAS45E	Standard	0.032	12.0	998	0.15	277	0.527	7.25	0.050	0.31	1.1	98.0	26	1.3	8.3	6.7	0.6	<1	88	7.4	<0.1
STD OREAS45E	Standard	0.032	11.3	992	0.15	267	0.535	7.38	0.052	0.35	1.0	98.3	25	1.3	8.7	6.1	0.5	<1	94	6.5	<0.1
STD OREAS45E	Standard	0.032	11.3	968	0.16	278	0.532	6.86	0.054	0.33	1.1	109.7	25	1.4	8.1	6.3	0.6	<1	91	7.1	<0.1
STD OREAS45E	Standard	0.033	10.6	927	0.15	252	0.494	6.86	0.053	0.31	0.9	89.4	24	1.3	7.5	5.7	0.5	<1	83	6.1	<0.1
STD OREAS45E	Standard	0.036	11.6	992	0.16	256	0.574	7.26	0.055	0.34	1.0	103.7	26	1.4	8.1	6.6	0.6	<1	91	7.0	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 21, 2019

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QUALITY CONTROL REPORT

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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP N256058	QC	0.5	1.0	0.34	0.056	11	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	64.0	4.4	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.2	4.1	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.9	4.6	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.5	3.9	0.06	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.7	4.1	0.10	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	23.2	3.3	0.11	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.5	3.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.0	3.3	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.2	2.8	0.06	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.9	2.8	0.14	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							



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QUALITY CONTROL REPORT

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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	0.4	<0.1	0.3	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.1	<0.2	<1	0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	0.6	4.2	3.9	39	<0.1	1.2	4.7	630	2.23	2	1.2	2.8	217	0.2	0.1	<0.1	41	1.66
ROCK-VAN	Prep Blank		<2	0.7	6.5	5.3	39	<0.1	1.0	4.4	596	2.09	3	1.2	2.8	190	<0.1	0.1	<0.1	38	1.55



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton
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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	0.02	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.045	13.9	3	0.51	794	0.227	7.08	3.332	1.58	0.4	48.1	27	0.9	16.4	5.7	0.4	1	7	3.0	<0.1	
ROCK-VAN	Prep Blank	0.037	12.2	3	0.47	800	0.210	6.96	3.218	1.68	0.2	50.9	24	0.7	14.8	5.4	0.4	1	7	3.6	<0.1	



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QUALITY CONTROL REPORT

VAN18003682.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	35.5	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	38.8	1.7	<0.05	<0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Northisle Copper and Gold Inc.**
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock
Receiving Lab: Canada-Vancouver
Received: December 21, 2018
Report Date: January 24, 2019
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CERTIFICATE OF ANALYSIS

VAN18003766.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 143

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	133	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	10	Sort, label and box pulps			VAN
FA350-Au	143	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	143	Environmental disposal charge-Fire assay lead waste			VAN
MA200	143	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date: January 24, 2019

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CERTIFICATE OF ANALYSIS

VAN18003766.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256084	Drill Core	4.14	2	3.2	84.2	10.4	133	<0.1	12.8	17.4	370	4.86	2	2.8	5.3	50	0.3	0.6	0.4	148	0.44
N256086	Drill Core	8.27	<2	2.9	68.2	6.9	43	<0.1	9.7	19.7	896	5.09	<1	2.1	4.1	95	<0.1	0.3	0.4	166	1.22
N256087	Drill Core	7.90	3	2.1	75.9	6.0	67	<0.1	8.7	20.9	3051	5.42	3	2.0	4.1	344	<0.1	0.2	<0.1	193	3.72
N256088	Drill Core	7.94	3	2.8	78.8	5.3	65	<0.1	9.1	21.1	3920	5.05	2	2.1	4.4	337	<0.1	0.1	<0.1	190	3.50
N256089	Drill Core	9.10	<2	4.1	71.0	5.7	63	<0.1	8.5	20.5	3330	5.22	1	2.1	4.4	228	0.1	0.1	<0.1	182	3.00
N256090	Drill Core	8.83	<2	1.9	46.4	8.3	189	<0.1	4.5	16.0	4697	5.17	<1	1.0	2.1	79	0.3	0.3	0.2	137	0.98
N256091	Rock Pulp	0.06	209	369.6	1830.0	25.5	56	13.1	13.5	8.9	700	3.42	14	1.1	2.3	408	0.5	31.0	1.8	84	2.60
N256092	Drill Core	7.80	<2	1.5	25.6	5.0	149	<0.1	3.4	12.2	5513	4.80	<1	0.8	1.8	74	0.2	0.1	0.2	133	0.73
N256093	Drill Core	9.18	<2	1.2	44.5	5.3	161	<0.1	3.4	12.7	1818	4.93	<1	0.8	1.7	93	0.3	0.2	0.1	140	0.65
N256094	Drill Core	7.53	3	2.1	40.1	5.1	193	<0.1	3.5	14.8	2148	5.11	<1	0.8	1.8	101	0.4	0.3	<0.1	143	0.75
N256095	Drill Core	8.50	<2	0.6	33.5	4.3	132	<0.1	4.0	15.2	2291	4.94	<1	0.8	1.9	93	0.2	0.2	<0.1	134	0.72
N256096	Drill Core	7.66	2	2.5	63.4	10.2	49	<0.1	12.3	20.5	220	8.08	3	0.5	1.6	532	0.2	0.6	0.4	212	0.42
N256097	Rock Pulp	0.06	609	337.1	3902.3	27.0	102	15.8	23.9	62.0	1411	4.62	1931	2.1	1.4	455	0.9	39.5	13.9	59	5.62
N256098	Drill Core	7.49	<2	2.3	97.1	10.4	16	<0.1	19.7	27.3	18	8.37	10	0.3	1.3	1048	<0.1	0.6	0.3	266	0.20
N256099	Drill Core	7.30	<2	1.5	97.4	10.4	60	<0.1	25.0	32.3	18	6.30	10	0.3	1.3	1219	0.3	0.8	0.2	272	0.20
N256100	Drill Core	6.31	<2	1.1	86.9	10.3	12	<0.1	19.0	31.0	20	5.06	15	0.4	1.5	1419	0.1	0.8	0.3	246	0.23
N256101	Drill Core	7.77	<2	2.2	46.2	9.3	19	<0.1	12.7	22.7	82	5.57	15	0.7	1.9	424	<0.1	0.7	0.4	208	0.38
N256102	Drill Core	9.82	<2	1.5	59.7	6.7	15	<0.1	10.2	18.0	134	6.43	19	0.8	1.6	239	<0.1	0.7	0.4	202	0.47
N256103	Rock	1.37	<2	<0.1	1.4	0.5	3	<0.1	0.2	<0.2	130	0.14	2	0.1	0.3	79	<0.1	<0.1	<0.1	3	33.87
N256104	Drill Core	8.43	<2	1.4	65.0	8.6	37	<0.1	24.9	21.4	286	6.06	17	0.8	1.5	228	<0.1	0.7	0.6	199	0.45
N256105	Drill Core	8.61	<2	1.2	28.3	5.0	77	<0.1	6.4	17.9	43	5.43	10	1.4	3.4	179	0.2	0.6	0.2	164	0.18
N256106	Drill Core	8.37	<2	1.2	62.0	8.5	123	<0.1	6.7	15.8	41	5.48	14	1.3	3.2	486	0.6	1.2	0.4	149	0.18
N256107	Drill Core	8.80	<2	0.8	45.5	6.0	46	0.3	6.5	17.5	65	4.70	9	1.3	3.1	170	0.2	0.8	0.3	146	0.24
N256108	Drill Core	4.21	<2	1.1	48.6	3.6	53	<0.1	5.8	15.0	74	5.05	6	1.0	2.3	131	0.1	0.5	<0.1	191	0.22
N256110	Drill Core	8.56	<2	1.3	25.5	6.5	78	<0.1	5.2	18.5	69	4.37	9	0.9	2.1	350	0.4	0.4	0.1	197	0.26
N256111	Drill Core	8.64	<2	0.8	33.6	4.4	53	<0.1	4.8	21.0	134	4.86	11	0.8	1.7	236	0.2	0.6	0.1	203	0.26
N256112	Drill Core	8.52	<2	1.3	32.4	4.7	43	<0.1	3.8	14.6	172	4.58	6	0.6	1.5	256	<0.1	0.4	0.1	172	0.41
N256113	Drill Core	8.64	<2	1.7	35.2	5.9	48	<0.1	6.9	20.3	221	6.39	7	0.9	3.1	134	0.2	0.7	0.2	203	0.44
N256114	Drill Core	8.50	<2	0.8	37.3	3.1	40	<0.1	7.3	17.9	410	5.56	11	0.7	1.4	137	<0.1	0.4	<0.1	208	0.38
N256115	Rock Pulp	0.06	188	386.5	1915.1	24.6	56	12.9	14.1	9.7	708	3.53	13	1.1	2.1	399	0.3	33.8	1.9	81	2.60



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CERTIFICATE OF ANALYSIS

VAN18003766.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
N256084	Drill Core	0.082	14.1	15	1.33	18	0.416	7.75	0.063	2.50	1.2	127.4	34	1.9	23.0	9.6	0.6	1	19	4.0	5.4	
N256086	Drill Core	0.078	11.8	9	1.95	27	0.386	7.57	0.344	1.77	0.6	105.5	26	2.0	18.2	6.7	0.5	<1	18	4.0	5.6	
N256087	Drill Core	0.078	14.5	11	2.06	43	0.440	8.25	2.016	1.04	0.5	123.3	30	1.2	22.1	7.0	0.4	<1	22	3.5	3.7	
N256088	Drill Core	0.070	14.1	10	2.53	50	0.435	8.20	1.932	1.08	0.5	125.1	30	0.9	21.0	6.7	0.5	<1	23	3.9	2.9	
N256089	Drill Core	0.070	14.4	9	2.38	29	0.419	7.61	1.143	1.08	0.3	112.0	30	0.9	22.8	7.2	0.5	1	20	4.0	4.4	
N256090	Drill Core	0.090	11.3	4	1.87	25	0.406	7.95	0.224	2.24	0.4	50.8	28	1.5	19.2	5.8	0.4	<1	15	4.3	5.5	
N256091	Rock Pulp	0.054	9.5	18	0.83	686	0.180	6.76	2.127	1.68	1.4	9.7	19	2.8	11.4	2.5	0.1	<1	9	7.2	0.3	
N256092	Drill Core	0.064	12.0	4	2.34	25	0.363	7.88	0.180	1.35	0.2	39.3	26	1.3	16.2	5.1	0.3	1	14	6.6	5.0	
N256093	Drill Core	0.071	11.6	4	1.29	17	0.376	8.20	0.225	1.95	0.3	43.9	25	2.7	16.7	5.4	0.3	1	14	3.1	5.5	
N256094	Drill Core	0.112	12.3	3	1.69	19	0.383	8.22	0.286	1.35	0.3	55.7	29	1.8	15.0	5.3	0.3	<1	15	4.0	5.8	
N256095	Drill Core	0.115	10.8	4	2.18	23	0.335	8.46	0.264	0.84	0.2	61.2	26	1.0	18.8	4.4	0.3	1	14	6.4	5.2	
N256096	Drill Core	0.101	9.9	9	0.34	16	0.352	8.64	0.144	0.29	0.3	24.8	22	2.0	9.4	3.7	0.2	<1	14	3.6	9.3	
N256097	Rock Pulp	0.059	14.0	32	0.78	293	0.132	5.95	1.690	1.53	3.8	19.6	21	3.0	8.3	1.6	0.1	1	6	11.7	0.6	
N256098	Drill Core	0.127	3.1	13	<0.01	24	0.415	10.34	0.035	0.03	0.2	7.7	8	2.6	2.7	3.7	0.2	<1	12	3.5	9.7	
N256099	Drill Core	0.136	2.9	14	<0.01	33	0.485	10.23	0.029	0.03	0.2	8.1	8	3.4	3.1	4.4	0.2	<1	13	2.8	7.0	
N256100	Drill Core	0.152	5.1	12	0.02	43	0.440	10.64	0.040	0.04	0.2	11.3	12	4.1	3.5	3.8	0.3	<1	12	2.3	5.6	
N256101	Drill Core	0.118	7.6	7	0.23	25	0.332	9.93	0.249	0.98	0.2	34.5	18	3.1	9.3	3.9	0.3	<1	16	1.3	6.4	
N256102	Drill Core	0.082	8.0	12	0.41	12	0.396	8.34	0.235	1.16	0.3	40.2	19	1.5	14.0	4.9	0.3	<1	20	1.2	7.4	
N256103	Rock	0.006	1.3	<1	1.79	14	0.006	0.10	0.021	0.01	1.8	1.3	1	0.1	2.1	0.1	<0.1	<1	<1	0.9	<0.1	
N256104	Drill Core	0.063	4.4	43	1.25	14	0.366	6.81	0.149	0.70	0.2	44.0	11	1.5	6.9	4.3	0.3	<1	20	3.2	7.3	
N256105	Drill Core	0.063	11.9	6	0.03	26	0.428	8.56	0.058	0.10	0.4	84.4	25	1.0	13.3	5.3	0.3	<1	18	0.6	5.7	
N256106	Drill Core	0.082	14.5	7	0.02	23	0.339	8.04	0.065	0.03	0.3	79.6	30	1.1	9.4	4.0	0.3	<1	15	1.0	6.0	
N256107	Drill Core	0.065	13.7	9	0.07	34	0.347	7.98	0.059	0.16	11.7	67.3	29	1.2	9.9	4.7	0.3	<1	15	0.8	4.9	
N256108	Drill Core	0.071	11.2	5	0.10	12	0.386	7.37	0.072	1.41	0.3	45.9	26	1.0	10.0	4.6	0.3	<1	16	0.4	5.7	
N256110	Drill Core	0.090	7.1	5	0.10	24	0.475	8.65	0.181	1.47	0.4	52.6	18	1.1	15.0	5.7	0.3	1	18	0.3	4.8	
N256111	Drill Core	0.079	8.6	4	0.10	22	0.486	7.95	0.216	1.25	0.3	43.8	21	1.0	13.8	4.9	0.3	<1	19	0.4	5.5	
N256112	Drill Core	0.081	7.3	4	0.45	14	0.436	6.86	0.161	1.16	0.2	33.9	18	0.9	12.5	4.8	0.3	<1	14	1.1	5.4	
N256113	Drill Core	0.087	7.3	14	0.57	17	0.494	8.33	0.196	2.56	0.4	60.7	21	1.0	16.9	5.2	0.3	1	19	1.0	7.1	
N256114	Drill Core	0.072	8.9	18	0.97	15	0.466	7.87	0.196	1.55	0.3	31.9	21	0.9	10.9	4.4	0.3	2	17	1.3	6.3	
N256115	Rock Pulp	0.047	8.4	18	0.84	687	0.193	6.37	2.162	1.73	1.4	9.2	19	2.5	11.2	2.3	0.2	<1	8	8.2	0.3	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256084	Drill Core	76.1	3.9	0.14	<0.005	15	0.8	0.8
N256086	Drill Core	58.3	3.1	0.06	0.006	14	1.1	0.6
N256087	Drill Core	28.1	3.6	<0.05	<0.005	4	1.1	<0.5
N256088	Drill Core	29.5	3.5	0.06	<0.005	3	0.8	<0.5
N256089	Drill Core	33.0	3.3	<0.05	0.005	9	1.6	<0.5
N256090	Drill Core	59.7	1.5	0.10	0.015	17	2.4	0.8
N256091	Rock Pulp	39.6	0.6	0.09	0.372	<1	1.3	<0.5
N256092	Drill Core	36.1	1.1	0.06	0.007	14	1.3	0.6
N256093	Drill Core	46.1	1.3	0.10	<0.005	13	1.5	0.7
N256094	Drill Core	31.5	1.5	0.11	0.014	14	0.8	0.6
N256095	Drill Core	19.9	1.6	<0.05	0.008	13	0.6	<0.5
N256096	Drill Core	6.3	0.6	0.06	0.016	24	1.4	<0.5
N256097	Rock Pulp	36.0	0.7	0.15	0.300	3	2.7	<0.5
N256098	Drill Core	0.4	0.2	<0.05	0.030	19	1.4	<0.5
N256099	Drill Core	0.3	0.3	0.17	0.014	24	0.9	<0.5
N256100	Drill Core	0.5	0.3	<0.05	0.008	15	0.8	<0.5
N256101	Drill Core	20.9	0.9	<0.05	0.009	12	0.6	0.7
N256102	Drill Core	27.1	1.1	0.05	<0.005	11	0.6	0.8
N256103	Rock	0.5	<0.1	<0.05	<0.005	<1	1.2	<0.5
N256104	Drill Core	11.0	1.2	0.06	<0.005	8	0.6	0.9
N256105	Drill Core	2.0	2.2	0.10	<0.005	8	0.7	<0.5
N256106	Drill Core	0.8	2.2	0.16	<0.005	11	1.0	<0.5
N256107	Drill Core	4.2	1.8	0.15	<0.005	2	0.7	<0.5
N256108	Drill Core	33.8	1.1	0.09	<0.005	2	0.5	0.8
N256110	Drill Core	32.4	1.5	0.06	<0.005	6	<0.5	0.7
N256111	Drill Core	26.8	1.3	0.07	<0.005	7	<0.5	0.7
N256112	Drill Core	25.2	0.9	0.05	<0.005	4	0.5	0.8
N256113	Drill Core	49.9	1.8	0.07	<0.005	7	0.6	1.1
N256114	Drill Core	35.7	1.0	<0.05	<0.005	7	0.7	0.8
N256115	Rock Pulp	36.5	0.5	0.07	0.396	<1	1.1	<0.5



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N256116	Drill Core	8.53	<2	1.4	47.3	3.9	46	<0.1	7.5	19.8	70	5.80	7	0.9	2.1	185	0.1	0.7	0.2	210	0.29
N256117	Drill Core	8.54	<2	0.4	25.0	5.4	111	<0.1	5.2	16.1	682	4.83	17	0.8	1.5	83	<0.1	1.4	0.2	142	0.39
N256118	Drill Core	8.68	<2	0.2	66.4	7.8	117	<0.1	6.1	18.5	536	5.49	15	0.9	2.0	161	0.4	2.4	0.3	171	0.43
N256119	Drill Core	8.37	2	0.5	40.0	8.9	69	<0.1	8.3	17.4	392	5.80	16	1.1	2.1	192	0.3	3.3	0.4	187	0.39
N256120	Drill Core	7.34	2	0.9	21.5	5.8	31	<0.1	7.4	22.7	521	5.19	23	1.2	2.4	81	<0.1	3.2	0.2	203	0.38
N256121	Rock Pulp	0.06	620	335.3	3869.2	30.6	103	15.0	25.5	70.2	1457	4.70	2018	2.4	1.5	436	0.7	43.2	14.5	57	5.72
N256122	Drill Core	8.16	3	0.6	19.4	5.0	39	<0.1	7.7	19.6	395	5.16	18	1.1	2.1	78	<0.1	3.3	0.1	207	0.44
N256123	Drill Core	8.44	3	0.7	20.6	5.0	34	<0.1	7.0	24.5	301	5.13	15	1.1	1.9	108	<0.1	2.0	0.2	204	0.36
N256124	Drill Core	8.63	2	0.6	18.4	6.1	64	<0.1	7.1	16.6	223	4.57	18	1.0	1.9	117	0.2	1.8	0.2	217	0.41
N256125	Drill Core	8.26	3	0.9	18.1	5.0	33	<0.1	6.1	22.1	797	4.74	16	1.1	2.3	86	<0.1	1.3	0.1	171	0.42
N256126	Drill Core	7.74	3	0.6	21.3	6.5	28	<0.1	5.2	18.0	870	4.63	13	1.4	2.6	214	<0.1	1.3	0.2	154	0.50
N256127	Rock	1.14	2	<0.1	2.2	0.5	5	<0.1	0.8	<0.2	108	0.10	2	0.1	<0.1	79	<0.1	<0.1	<0.1	3	34.63
N256128	Drill Core	8.95	<2	1.0	21.7	6.1	49	<0.1	6.1	23.7	426	6.35	5	1.0	1.9	169	<0.1	0.6	0.2	196	0.40
N256129	Drill Core	8.20	2	0.2	23.0	3.4	46	<0.1	7.7	18.4	1493	4.51	20	0.9	2.0	200	<0.1	1.6	<0.1	176	2.48
N256130	Drill Core	8.11	<2	0.2	24.7	4.0	35	<0.1	6.2	19.5	878	4.20	14	1.0	2.2	254	<0.1	0.9	0.2	160	4.27
N256131	Drill Core	7.89	<2	0.3	28.2	4.1	68	<0.1	6.3	18.5	707	4.73	18	0.8	1.5	221	0.1	0.6	<0.1	170	3.45
N256132	Drill Core	9.27	2	0.6	48.4	4.2	36	<0.1	7.5	19.3	1291	4.93	31	1.0	2.2	200	<0.1	1.8	<0.1	173	3.36
N256133	Rock Pulp	0.06	194	368.1	1868.2	26.3	56	13.2	13.8	9.2	734	3.49	13	0.9	2.2	419	0.2	34.2	2.0	81	2.61
N256134	Drill Core	8.08	<2	1.1	62.1	6.3	131	<0.1	6.8	18.9	1858	5.25	24	1.0	2.3	273	0.4	1.6	<0.1	180	3.85
N256135	Drill Core	7.82	3	1.9	46.5	6.2	178	<0.1	7.2	21.5	338	5.24	7	0.8	1.9	279	1.1	1.0	0.3	151	3.76
N256136	Drill Core	8.48	<2	0.8	20.0	5.4	65	<0.1	5.7	16.7	1238	4.66	3	0.8	2.2	226	<0.1	0.3	0.2	148	3.00
N256137	Drill Core	8.38	<2	0.5	29.2	5.0	72	<0.1	5.1	15.9	1921	4.37	5	0.8	2.0	203	<0.1	0.5	<0.1	150	3.35
N256138	Drill Core	3.77	<2	0.7	35.1	7.7	45	<0.1	5.6	16.8	876	5.14	4	0.8	1.7	188	<0.1	0.5	<0.1	159	3.73
N256140	Drill Core	7.74	<2	0.8	43.1	7.3	81	<0.1	5.8	17.4	1117	4.54	5	0.7	1.6	256	0.2	0.5	0.3	151	4.35
N256141	Drill Core	8.35	<2	1.4	36.2	5.1	45	<0.1	5.8	17.3	386	4.80	4	0.6	1.2	189	<0.1	0.4	0.7	154	4.33
N256142	Drill Core	8.03	<2	2.4	25.0	7.2	8	<0.1	3.3	11.1	62	2.80	<1	0.3	1.0	296	<0.1	0.2	0.4	75	5.93
N256143	Drill Core	8.45	<2	2.0	39.8	7.0	62	<0.1	5.5	20.0	536	5.27	5	0.8	1.7	271	0.2	0.6	0.5	168	3.61
N256144	Rock Pulp	0.06	591	331.4	3906.9	29.1	108	15.5	25.8	74.1	1487	4.72	2024	2.4	1.4	466	1.0	44.3	14.6	58	5.79
N256145	Drill Core	7.67	3	1.4	40.7	5.9	70	<0.1	7.0	18.6	1400	4.86	11	1.0	2.4	255	0.1	1.4	0.3	166	2.99
N256146	Drill Core	8.95	<2	1.0	47.0	4.2	33	<0.1	4.7	20.4	1282	4.27	13	1.0	2.3	313	0.1	2.5	0.4	134	3.98



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256116	Drill Core	0.079	9.7	12	0.16	15	0.421	8.01	0.121	1.43	0.4	37.7	23	1.1	14.5	4.6	0.3	<1	18	0.7	6.6
N256117	Drill Core	0.072	4.4	5	2.12	54	0.380	7.52	0.152	0.37	0.2	37.0	10	1.1	9.2	4.5	0.3	1	14	4.0	5.6
N256118	Drill Core	0.066	6.3	6	1.70	43	0.399	7.58	0.155	0.26	0.3	38.7	16	1.1	9.4	4.0	0.2	<1	17	3.6	6.2
N256119	Drill Core	0.067	7.2	8	0.99	23	0.428	8.05	0.233	0.40	0.3	60.6	18	1.8	9.6	4.6	0.3	<1	19	2.4	6.5
N256120	Drill Core	0.074	6.9	7	1.08	13	0.422	7.59	0.391	1.39	0.3	63.3	17	0.8	9.5	4.4	0.3	<1	17	1.7	5.9
N256121	Rock Pulp	0.061	15.6	33	0.76	718	0.144	5.99	1.658	1.54	4.1	19.5	22	2.9	8.9	1.6	<0.1	1	6	12.6	0.6
N256122	Drill Core	0.071	4.4	9	1.64	16	0.454	7.93	0.395	0.99	0.2	60.5	11	0.9	8.8	4.5	0.3	<1	18	2.3	5.9
N256123	Drill Core	0.064	3.4	8	1.22	11	0.412	7.29	0.384	1.30	0.2	58.7	9	0.8	8.6	4.0	0.3	<1	18	1.7	5.8
N256124	Drill Core	0.071	4.7	9	1.43	21	0.445	7.17	0.281	0.98	0.3	56.9	12	1.0	9.9	4.2	0.3	<1	19	1.6	5.2
N256125	Drill Core	0.067	7.0	6	2.07	19	0.384	7.92	0.377	0.99	0.2	65.3	16	0.7	10.7	4.2	0.3	<1	16	3.6	5.0
N256126	Drill Core	0.072	6.8	4	1.76	26	0.354	7.17	0.207	0.86	0.2	72.4	16	1.1	15.0	4.5	0.3	<1	13	3.1	5.0
N256127	Rock	0.006	1.4	<1	1.49	16	0.005	0.07	0.019	0.01	<0.1	1.2	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.0	<0.1
N256128	Drill Core	0.063	7.0	6	1.11	18	0.375	6.45	0.255	0.30	0.2	44.4	16	1.1	10.5	3.9	0.3	<1	15	2.5	7.3
N256129	Drill Core	0.069	8.9	8	2.51	26	0.402	7.74	0.499	0.64	0.3	41.0	20	0.9	11.7	3.8	0.2	<1	18	3.7	5.5
N256130	Drill Core	0.071	9.7	7	1.97	15	0.396	7.57	0.525	0.69	0.2	52.9	20	0.4	11.4	3.9	0.2	<1	16	4.7	7.3
N256131	Drill Core	0.060	6.3	7	1.80	20	0.373	6.57	0.266	0.61	0.2	44.0	14	0.7	9.4	3.5	0.2	<1	16	3.7	7.4
N256132	Drill Core	0.066	9.8	7	1.75	28	0.401	8.00	0.268	1.20	0.4	50.1	20	0.7	13.6	3.8	0.2	<1	17	2.5	6.1
N256133	Rock Pulp	0.050	8.8	19	0.82	709	0.195	6.42	2.086	1.69	1.5	8.7	18	2.6	10.9	2.2	0.1	<1	9	8.4	0.3
N256134	Drill Core	0.071	11.4	8	1.95	27	0.423	8.20	0.431	0.50	0.3	51.5	24	1.2	16.8	4.0	0.3	<1	18	2.7	6.5
N256135	Drill Core	0.056	8.2	4	0.34	24	0.347	6.46	0.221	1.49	0.4	33.8	19	1.2	12.1	3.8	0.2	<1	15	0.8	8.6
N256136	Drill Core	0.068	12.5	5	1.95	19	0.378	7.93	0.315	1.11	0.2	43.3	26	0.8	13.2	4.5	0.3	1	14	3.5	6.7
N256137	Drill Core	0.071	11.8	5	2.23	25	0.378	7.86	0.545	0.88	0.2	41.6	24	0.9	13.9	4.4	0.3	<1	14	3.2	5.9
N256138	Drill Core	0.056	10.1	5	1.13	16	0.387	8.05	0.372	1.64	0.2	44.1	22	1.1	12.2	4.3	0.3	1	15	2.0	8.0
N256140	Drill Core	0.070	8.9	4	1.36	21	0.383	7.47	0.460	1.00	0.2	47.4	20	1.0	12.4	4.4	0.3	<1	12	3.2	7.7
N256141	Drill Core	0.057	6.2	4	0.69	19	0.367	6.31	0.321	0.71	0.3	38.1	15	1.5	9.8	4.4	0.3	<1	12	1.9	8.6
N256142	Drill Core	0.085	5.8	3	0.03	20	0.213	3.90	0.112	0.30	0.2	31.2	14	1.0	8.5	2.6	0.2	<1	4	4.4	7.9
N256143	Drill Core	0.071	6.9	4	0.86	16	0.409	7.62	0.444	1.08	0.3	42.2	17	2.5	11.4	4.6	0.3	<1	12	2.1	8.3
N256144	Rock Pulp	0.063	15.9	32	0.76	514	0.148	6.06	1.663	1.65	4.4	21.0	24	3.3	8.7	1.7	0.1	1	6	12.1	0.6
N256145	Drill Core	0.077	9.6	5	2.18	43	0.389	8.26	0.270	0.97	0.3	54.8	22	2.0	13.2	4.0	0.3	1	16	3.2	6.3
N256146	Drill Core	0.075	9.7	5	1.34	49	0.372	7.16	0.488	0.41	0.2	59.4	21	1.6	12.9	4.6	0.3	<1	12	2.9	5.5



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256116	Drill Core	33.6	1.1	0.07	<0.005	9	<0.5	0.9
N256117	Drill Core	1.9	1.1	0.17	<0.005	10	0.8	<0.5
N256118	Drill Core	1.6	1.2	0.23	<0.005	13	0.7	<0.5
N256119	Drill Core	4.8	1.6	0.11	<0.005	12	1.1	0.5
N256120	Drill Core	27.5	1.8	0.07	<0.005	13	0.8	0.9
N256121	Rock Pulp	35.1	0.7	0.16	0.355	5	2.2	<0.5
N256122	Drill Core	17.6	1.7	0.08	<0.005	15	1.5	0.6
N256123	Drill Core	24.1	1.5	0.08	<0.005	11	0.8	0.6
N256124	Drill Core	13.1	1.7	0.16	<0.005	11	1.0	0.6
N256125	Drill Core	16.9	1.8	0.08	<0.005	10	1.4	0.6
N256126	Drill Core	12.1	1.9	0.06	<0.005	7	0.7	0.6
N256127	Rock	0.3	<0.1	<0.05	<0.005	<1	1.6	<0.5
N256128	Drill Core	3.7	1.4	0.09	<0.005	10	0.5	<0.5
N256129	Drill Core	10.3	1.2	<0.05	<0.005	9	1.0	<0.5
N256130	Drill Core	12.2	1.5	0.06	<0.005	8	0.6	<0.5
N256131	Drill Core	5.3	1.4	0.08	<0.005	9	0.8	<0.5
N256132	Drill Core	27.6	1.5	<0.05	<0.005	9	0.7	<0.5
N256133	Rock Pulp	36.0	0.5	0.09	0.380	<1	0.9	<0.5
N256134	Drill Core	8.3	1.6	0.06	<0.005	8	1.0	<0.5
N256135	Drill Core	28.1	1.0	0.18	<0.005	8	0.6	0.7
N256136	Drill Core	29.0	1.3	0.07	<0.005	3	<0.5	0.5
N256137	Drill Core	18.9	1.3	0.07	<0.005	4	0.6	<0.5
N256138	Drill Core	44.7	1.2	0.07	<0.005	4	<0.5	0.7
N256140	Drill Core	14.5	1.4	0.12	<0.005	5	0.7	<0.5
N256141	Drill Core	8.1	1.0	0.10	<0.005	5	<0.5	<0.5
N256142	Drill Core	3.7	0.8	<0.05	<0.005	3	<0.5	<0.5
N256143	Drill Core	17.9	1.1	0.13	<0.005	4	0.6	0.6
N256144	Rock Pulp	35.7	0.7	0.19	0.375	3	2.4	<0.5
N256145	Drill Core	16.6	1.6	0.25	<0.005	8	1.1	0.8
N256146	Drill Core	3.3	1.8	0.21	<0.005	10	1.2	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256147	Drill Core	7.91	3	1.9	26.8	4.5	44	<0.1	5.9	18.6	2181	4.65	10	1.0	2.4	277	0.3	1.3	0.1	155	3.68
N256148	Drill Core	7.60	<2	0.2	15.9	4.4	41	<0.1	6.3	17.3	1700	4.26	9	1.1	2.3	237	<0.1	0.7	0.1	158	2.76
N256149	Drill Core	7.95	<2	0.7	21.1	3.3	44	<0.1	6.0	20.3	615	4.82	2	1.0	2.2	201	0.1	0.6	0.1	143	4.15
N256150	Rock	1.37	<2	<0.1	3.2	0.5	4	<0.1	0.5	0.5	135	0.20	<1	0.2	0.2	76	<0.1	<0.1	<0.1	3	34.48
N256151	Drill Core	7.90	2	0.7	100.7	5.6	67	<0.1	6.6	21.2	1348	5.23	23	1.0	2.1	242	0.1	3.3	0.1	156	3.66
N256152	Drill Core	8.22	3	0.6	40.3	7.6	27	<0.1	7.5	22.4	131	4.96	5	0.8	1.8	240	<0.1	0.5	0.2	166	4.60
N256153	Drill Core	8.25	<2	4.7	15.9	4.5	21	<0.1	5.9	16.5	79	4.28	4	0.9	2.2	163	0.2	0.4	<0.1	148	4.37
N256154	Drill Core	8.14	<2	0.9	37.6	5.6	17	<0.1	7.1	19.4	38	4.51	4	0.7	2.1	198	<0.1	1.1	0.2	145	4.65
N256155	Drill Core	8.11	<2	2.5	33.1	10.0	18	<0.1	6.8	17.6	53	4.89	3	0.8	1.7	264	<0.1	0.7	0.2	151	2.99
N256156	Rock Pulp	0.06	203	376.2	1913.8	27.4	58	12.8	14.4	9.8	742	3.57	13	1.1	2.0	430	0.4	33.7	2.1	81	2.66
N256157	Drill Core	8.00	<2	2.0	33.0	9.4	53	<0.1	4.7	19.9	51	5.17	3	1.0	2.6	287	0.1	0.9	0.6	150	1.09
N256158	Drill Core	8.69	<2	1.3	18.0	5.8	4	<0.1	3.5	13.3	27	4.02	3	1.4	4.1	375	<0.1	0.5	0.6	80	0.27
N256159	Drill Core	8.33	<2	1.5	17.2	8.9	4	<0.1	4.2	11.7	94	3.37	3	1.7	4.1	606	<0.1	0.4	0.2	100	0.24
N256160	Drill Core	7.63	3	1.1	11.5	10.1	13	<0.1	3.1	14.1	27	3.31	2	1.1	3.9	584	0.2	0.2	0.3	81	0.22
N256161	Rock	1.27	<2	<0.1	0.9	0.4	2	<0.1	<0.1	0.5	114	0.12	4	<0.1	<0.1	82	<0.1	<0.1	<0.1	3	34.67
N256162	Drill Core	8.65	3	1.0	60.7	9.9	148	<0.1	4.5	16.6	46	5.27	10	1.1	3.2	210	0.4	1.1	0.5	115	0.37
N256163	Drill Core	9.06	<2	0.5	65.3	23.7	145	<0.1	4.8	14.8	333	4.59	25	1.4	2.4	48	0.3	2.2	<0.1	129	0.36
N256164	Drill Core	3.82	<2	0.7	96.5	14.0	131	<0.1	4.9	13.4	287	4.67	15	1.4	2.3	71	0.3	1.6	0.2	121	0.28
N256166	Drill Core	8.57	2	1.6	32.4	7.9	15	<0.1	4.2	14.6	27	4.38	1	1.2	3.2	376	<0.1	0.4	0.4	101	0.29
N256167	Drill Core	8.36	<2	1.5	38.7	9.0	5	<0.1	4.9	17.7	23	5.66	2	1.1	2.6	264	<0.1	0.3	0.4	109	0.22
N256168	Drill Core	8.09	2	2.0	21.8	9.9	4	<0.1	3.1	11.0	50	3.34	3	1.1	2.5	354	<0.1	0.6	0.3	109	0.33
N256169	Drill Core	8.41	5	0.9	39.1	13.8	32	<0.1	9.1	22.6	77	6.29	5	0.6	1.0	274	<0.1	0.7	0.4	184	0.43
N256170	Drill Core	9.06	2	0.8	55.6	16.6	56	0.1	10.2	24.8	360	6.85	9	0.7	0.7	105	<0.1	1.1	<0.1	253	0.44
N256171	Rock Pulp	0.06	633	329.0	3906.6	27.9	105	14.7	25.7	74.7	1490	4.69	1989	2.3	1.5	458	1.0	42.8	14.7	56	5.83
N256172	Drill Core	8.03	<2	1.8	62.7	15.4	71	0.1	5.5	16.6	521	4.91	15	0.7	1.5	113	<0.1	1.0	0.1	172	0.46
N256173	Drill Core	8.20	<2	1.5	57.1	9.7	40	0.1	6.8	22.6	361	5.25	10	0.9	1.5	126	<0.1	0.9	0.1	202	0.41
N256174	Drill Core	8.57	<2	1.2	51.6	7.1	65	<0.1	6.1	16.9	1087	5.51	4	0.9	1.5	154	<0.1	0.7	<0.1	194	0.59
N256175	Drill Core	8.90	<2	1.0	63.0	7.6	157	<0.1	5.2	18.2	2941	5.47	14	0.9	1.9	232	<0.1	1.5	<0.1	169	2.71
N256176	Drill Core	8.42	<2	1.3	49.0	5.5	78	<0.1	4.8	17.2	2188	5.15	26	1.0	4.0	298	<0.1	1.9	0.1	187	2.73
N256177	Drill Core	9.56	<2	0.8	62.1	5.3	55	<0.1	6.0	15.5	1165	5.41	35	1.0	2.0	207	0.2	1.1	0.2	203	1.19



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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
N256147	Drill Core	0.065	13.8	6	2.13	56	0.383	7.72	1.018	0.26	0.3	65.5	31	0.7	17.1	4.9	0.3	1	13	2.9	4.9
N256148	Drill Core	0.069	12.4	6	2.70	63	0.395	7.66	0.867	0.24	0.3	70.9	27	0.9	17.0	4.7	0.3	<1	13	5.2	4.7
N256149	Drill Core	0.062	11.8	6	1.71	30	0.397	7.97	0.389	1.30	0.2	55.7	26	0.9	11.8	3.8	0.3	<1	17	4.1	7.9
N256150	Rock	0.005	1.3	<1	2.11	17	0.005	0.17	0.061	0.07	<0.1	2.2	2	0.1	2.2	0.3	<0.1	<1	<1	0.9	<0.1
N256151	Drill Core	0.069	7.9	6	1.92	32	0.381	8.16	0.306	0.77	0.3	50.4	19	1.0	12.3	4.2	0.3	1	16	4.3	6.9
N256152	Drill Core	0.075	3.6	6	0.77	30	0.396	7.57	0.303	1.07	0.4	43.3	10	1.3	9.5	4.3	0.3	1	14	1.9	8.8
N256153	Drill Core	0.067	5.6	4	0.59	20	0.370	7.15	0.150	0.68	0.3	41.2	13	1.1	10.1	4.3	0.3	<1	10	1.1	8.0
N256154	Drill Core	0.074	7.4	4	0.03	27	0.391	6.42	0.140	0.31	0.3	35.7	16	0.9	8.2	4.6	0.3	<1	7	0.5	8.7
N256155	Drill Core	0.074	4.1	3	0.06	19	0.372	6.98	0.228	0.52	0.3	45.8	10	0.9	7.3	4.8	0.3	<1	8	0.5	7.7
N256156	Rock Pulp	0.049	7.4	18	0.84	711	0.201	6.69	2.130	1.86	1.5	9.5	17	2.9	10.4	2.5	0.2	1	8	9.2	0.3
N256157	Drill Core	0.073	5.7	3	0.11	19	0.313	7.53	0.122	0.45	0.3	47.6	14	1.0	6.9	3.8	0.3	<1	8	0.9	6.5
N256158	Drill Core	0.052	8.2	3	0.01	25	0.223	7.93	0.040	0.02	0.3	64.6	18	0.6	6.8	4.0	0.3	<1	7	1.7	4.5
N256159	Drill Core	0.063	10.2	4	0.06	37	0.214	7.85	0.057	0.05	0.4	75.2	22	0.9	6.2	3.5	0.3	<1	6	0.9	3.7
N256160	Drill Core	0.066	11.2	3	<0.01	62	0.163	9.00	0.043	0.01	0.3	48.8	25	0.8	5.2	2.7	0.2	<1	6	0.6	3.7
N256161	Rock	0.006	1.3	<1	1.97	17	0.006	0.10	0.021	0.02	<0.1	1.7	1	<0.1	2.2	0.2	<0.1	<1	<1	0.9	<0.1
N256162	Drill Core	0.076	10.5	4	0.03	14	0.291	9.13	0.037	0.16	0.3	41.5	24	1.0	14.3	4.7	0.4	<1	11	1.0	5.9
N256163	Drill Core	0.091	8.4	4	1.42	23	0.431	8.31	0.034	0.90	0.2	70.8	20	1.3	14.5	7.5	0.5	<1	13	1.5	5.2
N256164	Drill Core	0.080	7.2	4	0.66	24	0.386	8.29	0.045	1.83	0.3	82.8	20	1.4	19.1	6.8	0.4	<1	13	0.8	5.1
N256166	Drill Core	0.074	8.6	4	0.03	31	0.317	9.30	0.037	0.26	0.4	71.6	21	1.4	12.8	5.3	0.3	<1	9	1.3	4.9
N256167	Drill Core	0.088	8.9	4	0.01	26	0.237	9.52	0.037	0.02	0.3	52.0	17	0.8	6.7	3.7	0.3	<1	7	2.3	6.3
N256168	Drill Core	0.073	7.7	4	0.01	62	0.210	9.63	0.041	0.01	0.6	54.6	19	1.0	5.4	3.3	0.2	<1	7	1.8	3.8
N256169	Drill Core	0.060	3.7	6	0.20	15	0.433	9.68	0.139	0.78	0.5	21.7	10	1.1	8.8	2.8	0.2	<1	15	2.6	7.2
N256170	Drill Core	0.067	1.8	7	1.59	14	0.573	8.34	0.217	1.45	0.5	28.4	6	1.4	11.6	4.9	0.3	1	19	3.7	7.8
N256171	Rock Pulp	0.062	15.6	33	0.75	511	0.141	6.05	1.675	1.61	4.3	20.9	23	3.1	8.7	1.7	<0.1	1	6	13.1	0.6
N256172	Drill Core	0.092	7.6	5	1.41	16	0.519	7.98	0.462	1.19	0.4	37.9	21	1.0	15.1	7.1	0.4	1	14	6.0	5.4
N256173	Drill Core	0.075	8.2	5	0.76	15	0.528	7.84	0.568	1.79	0.5	42.4	23	1.1	18.7	7.3	0.4	2	15	3.1	5.6
N256174	Drill Core	0.093	9.2	4	1.58	16	0.522	8.23	0.446	1.03	0.3	51.0	25	0.9	18.7	7.0	0.4	2	15	4.8	5.4
N256175	Drill Core	0.095	15.2	4	1.83	19	0.481	7.85	0.644	0.35	0.2	52.1	34	1.4	21.8	6.3	0.4	<1	15	3.6	4.7
N256176	Drill Core	0.102	17.4	4	1.93	42	0.489	7.73	0.781	0.41	0.3	52.2	36	1.0	23.5	6.0	0.4	1	16	3.2	3.8
N256177	Drill Core	0.099	11.8	4	1.63	19	0.523	7.64	0.348	0.95	0.3	48.1	27	1.2	20.8	6.0	0.4	1	17	4.6	5.3



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256147	Drill Core	2.7	2.1	0.11	<0.005	11	1.7	<0.5
N256148	Drill Core	2.6	1.9	<0.05	<0.005	7	1.1	<0.5
N256149	Drill Core	25.1	1.4	0.08	<0.005	12	0.9	0.5
N256150	Rock	1.7	<0.1	<0.05	<0.005	<1	2.0	<0.5
N256151	Drill Core	12.2	1.4	0.13	<0.005	6	1.4	<0.5
N256152	Drill Core	10.6	1.3	<0.05	0.006	3	0.6	<0.5
N256153	Drill Core	8.8	1.2	<0.05	0.023	2	<0.5	<0.5
N256154	Drill Core	4.3	1.1	<0.05	<0.005	2	0.7	<0.5
N256155	Drill Core	7.1	1.2	<0.05	<0.005	2	0.6	<0.5
N256156	Rock Pulp	30.5	0.5	0.06	0.433	<1	1.1	<0.5
N256157	Drill Core	6.7	1.3	0.06	<0.005	4	<0.5	<0.5
N256158	Drill Core	0.4	1.6	<0.05	<0.005	3	<0.5	<0.5
N256159	Drill Core	1.1	2.0	<0.05	<0.005	4	<0.5	<0.5
N256160	Drill Core	0.4	1.3	<0.05	<0.005	4	<0.5	<0.5
N256161	Rock	0.6	<0.1	<0.05	<0.005	<1	3.4	<0.5
N256162	Drill Core	5.0	1.2	0.29	<0.005	7	1.3	<0.5
N256163	Drill Core	19.7	1.9	0.20	<0.005	6	1.8	1.0
N256164	Drill Core	47.6	2.1	0.23	<0.005	7	2.0	1.2
N256166	Drill Core	5.6	1.8	0.07	<0.005	3	<0.5	<0.5
N256167	Drill Core	0.5	1.3	<0.05	<0.005	4	<0.5	<0.5
N256168	Drill Core	0.3	1.4	<0.05	<0.005	3	0.6	<0.5
N256169	Drill Core	19.2	0.5	0.10	<0.005	4	0.8	<0.5
N256170	Drill Core	26.8	0.8	<0.05	<0.005	5	1.1	<0.5
N256171	Rock Pulp	35.8	0.7	0.18	0.335	5	2.3	<0.5
N256172	Drill Core	27.8	1.1	0.10	<0.005	10	1.3	<0.5
N256173	Drill Core	42.3	1.0	0.10	<0.005	8	0.9	<0.5
N256174	Drill Core	21.5	1.4	0.07	<0.005	7	1.1	<0.5
N256175	Drill Core	4.3	1.5	0.18	<0.005	6	1.0	<0.5
N256176	Drill Core	8.7	1.4	0.13	<0.005	7	0.9	<0.5
N256177	Drill Core	18.9	1.4	0.06	<0.005	12	1.2	<0.5



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CERTIFICATE OF ANALYSIS

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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N256178	Rock	1.04	<2	<0.1	1.0	0.5	3	<0.1	0.1	<0.2	127	0.11	<1	0.2	<0.1	79	<0.1	<0.1	<0.1	2	33.25
N256179	Drill Core	8.63	<2	0.6	49.5	3.7	17	<0.1	5.5	16.1	335	5.12	13	0.7	1.8	172	<0.1	0.8	0.1	189	0.56
N256180	Drill Core	9.84	<2	1.5	51.9	3.8	23	<0.1	4.7	19.5	841	5.77	18	0.7	1.6	209	<0.1	0.9	0.2	181	1.03
N256181	Drill Core	8.59	2	1.4	45.7	3.2	13	<0.1	5.5	16.6	780	5.37	23	0.7	1.7	282	<0.1	1.1	0.1	197	1.97
N256182	Drill Core	3.73	<2	0.8	47.0	3.0	20	<0.1	5.4	16.8	1302	5.35	17	0.7	1.7	215	<0.1	1.4	<0.1	189	2.79
N256184	Drill Core	8.53	<2	1.3	44.1	4.3	23	<0.1	4.8	15.3	402	5.34	11	0.6	1.7	283	<0.1	1.1	0.2	165	2.03
N256185	Drill Core	8.91	<2	1.8	47.7	3.4	16	<0.1	3.5	14.7	934	5.21	10	0.9	1.7	227	<0.1	1.2	<0.1	147	1.82
N256186	Drill Core	8.64	<2	1.4	32.8	3.5	17	<0.1	3.9	13.9	898	6.36	17	0.8	1.8	172	<0.1	1.1	<0.1	131	2.66
N256187	Drill Core	8.12	<2	0.9	26.3	3.1	19	<0.1	3.4	14.8	1202	5.14	20	0.9	1.8	219	<0.1	0.9	<0.1	152	3.61
N256188	Drill Core	8.07	2	1.0	38.7	3.6	20	<0.1	3.4	12.0	1366	4.60	46	1.0	2.2	355	<0.1	0.9	<0.1	145	3.18
N256189	Drill Core	7.99	2	0.4	55.7	3.5	18	<0.1	3.4	12.2	883	5.98	41	0.9	2.0	242	<0.1	1.1	<0.1	131	2.47
N256190	Rock	2.30	<2	<0.1	0.8	1.0	3	<0.1	0.9	<0.2	139	0.12	<1	0.2	<0.1	79	<0.1	<0.1	<0.1	1	31.08
N256191	Drill Core	8.44	<2	1.3	27.7	4.6	20	<0.1	3.3	14.3	1232	5.47	39	0.9	1.9	206	<0.1	0.8	<0.1	156	2.14
N256192	Drill Core	8.80	<2	1.2	23.1	5.2	23	<0.1	3.5	14.0	1072	5.17	32	0.7	1.8	182	<0.1	0.8	<0.1	144	2.00
N256193	Drill Core	7.94	2	1.3	22.3	6.4	21	<0.1	3.3	13.5	1175	4.87	41	0.7	2.3	133	<0.1	0.7	<0.1	142	1.66
N256194	Drill Core	6.62	2	1.9	57.5	14.1	49	<0.1	3.4	15.5	875	5.30	72	0.7	2.0	103	0.2	1.6	0.5	144	1.12
N256195	Drill Core	6.12	<2	1.2	26.3	9.1	17	<0.1	2.8	5.8	175	2.79	40	0.5	1.8	222	<0.1	1.1	0.7	124	6.16
N256196	Drill Core	5.52	<2	1.3	28.1	7.6	5	<0.1	4.0	17.8	31	5.23	22	0.7	1.7	125	<0.1	1.0	0.5	110	1.69
N256197	Rock Pulp	0.06	196	373.1	1896.8	25.8	56	12.5	13.1	10.0	713	3.48	12	1.1	2.3	430	0.4	32.9	1.9	81	2.66
N256198	Drill Core	6.26	2	1.9	28.5	9.9	2	<0.1	3.9	21.2	30	6.19	16	0.7	2.2	225	<0.1	1.5	0.6	97	2.31
N256199	Drill Core	7.05	2	1.3	19.2	8.6	2	<0.1	4.4	12.9	31	4.52	15	1.1	2.5	245	<0.1	1.1	0.6	125	2.97
N256200	Drill Core	5.99	3	1.6	12.7	9.1	2	<0.1	2.7	6.5	23	2.71	20	0.8	2.7	533	<0.1	0.6	0.7	82	2.63
N256201	Drill Core	2.87	<2	1.6	13.0	6.5	2	<0.1	3.7	11.3	19	4.56	14	0.7	2.0	393	<0.1	0.7	0.5	87	1.66
N256203	Drill Core	7.66	<2	1.1	21.5	2.2	28	<0.1	4.1	11.3	31	4.86	7	0.8	2.2	86	<0.1	0.5	0.8	115	0.68
N256204	Drill Core	6.51	<2	1.3	29.2	2.8	4	<0.1	3.7	12.6	24	4.80	5	0.8	2.3	134	<0.1	0.7	0.7	106	0.58
N256205	Drill Core	7.30	2	2.0	28.3	5.1	3	<0.1	4.0	11.4	21	4.13	3	0.7	2.3	225	<0.1	0.5	0.2	91	4.64
N256206	Drill Core	6.68	<2	1.5	17.9	1.8	5	<0.1	3.7	11.4	25	4.72	6	0.7	2.1	144	<0.1	0.5	0.2	118	1.14
N256207	Drill Core	7.17	26	1.2	37.1	2.0	7	<0.1	6.5	12.6	22	5.16	6	0.8	2.2	215	<0.1	1.6	0.4	119	1.34
N256208	Rock	1.21	15	<0.1	1.0	0.3	3	<0.1	<0.1	<0.2	117	0.10	4	0.1	<0.1	81	<0.1	<0.1	<0.1	<1	33.18
N256209	Drill Core	6.21	6	1.5	14.9	5.7	1	<0.1	6.1	12.7	16	3.91	8	0.4	1.7	361	<0.1	2.1	0.3	96	4.37



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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
N256178	Rock	0.006	1.4	<1	1.57	29	0.008	0.20	0.057	0.07	<0.1	2.4	1	<0.1	2.6	0.4	<0.1	<1	<1	0.8	<0.1
N256179	Drill Core	0.098	11.0	3	1.10	15	0.452	7.07	0.417	1.43	0.2	33.8	28	1.2	20.3	5.4	0.3	1	17	3.4	5.8
N256180	Drill Core	0.094	11.5	3	1.51	16	0.434	7.27	0.322	0.96	0.2	28.2	27	0.9	17.9	5.2	0.3	1	16	3.6	6.2
N256181	Drill Core	0.099	12.9	3	1.27	18	0.466	7.46	0.342	0.78	0.3	27.9	28	1.0	20.3	5.4	0.3	<1	17	2.4	5.9
N256182	Drill Core	0.097	14.0	3	1.81	19	0.489	7.54	0.171	0.64	0.2	27.5	32	1.2	23.3	5.5	0.3	1	16	3.7	5.4
N256184	Drill Core	0.094	9.8	3	1.06	17	0.392	7.17	0.235	0.72	0.3	26.2	22	1.0	11.9	4.8	0.3	<1	13	3.3	7.3
N256185	Drill Core	0.105	12.4	3	1.42	16	0.425	7.45	0.182	1.22	0.3	32.3	27	1.3	20.7	5.7	0.3	1	14	2.4	5.6
N256186	Drill Core	0.102	14.6	3	1.29	16	0.382	7.04	0.202	1.02	0.2	31.3	31	1.3	19.3	5.6	0.3	1	12	1.8	6.9
N256187	Drill Core	0.093	14.8	3	1.49	33	0.446	7.80	0.257	0.94	0.2	32.2	31	0.9	19.8	5.7	0.3	1	15	1.8	5.0
N256188	Drill Core	0.092	17.2	3	1.57	37	0.429	7.19	1.349	0.42	0.3	37.4	36	1.4	19.4	5.9	0.4	1	13	1.4	3.7
N256189	Drill Core	0.084	14.0	3	1.27	18	0.405	7.20	1.537	1.07	0.3	36.3	31	1.1	18.0	6.0	0.4	<1	12	1.2	5.8
N256190	Rock	0.008	1.2	<1	2.31	20	0.008	0.17	0.056	0.04	<0.1	1.5	1	<0.1	2.5	0.4	<0.1	<1	<1	1.1	<0.1
N256191	Drill Core	0.100	15.3	3	1.91	21	0.443	7.30	0.768	0.77	0.2	31.1	33	1.5	18.4	5.7	0.3	1	14	2.6	5.0
N256192	Drill Core	0.096	14.5	2	1.70	23	0.419	7.04	0.514	1.08	0.2	30.6	31	1.4	18.0	5.5	0.3	1	14	2.2	5.1
N256193	Drill Core	0.094	17.2	3	1.69	22	0.409	7.29	0.238	1.45	0.3	34.3	36	1.2	20.6	5.8	0.4	2	14	1.9	4.4
N256194	Drill Core	0.092	14.6	3	1.82	16	0.333	7.39	0.107	1.31	0.2	31.9	31	0.7	12.1	4.4	0.3	<1	13	3.3	5.9
N256195	Drill Core	0.107	12.1	3	0.74	21	0.313	6.03	0.052	0.98	0.4	26.1	26	1.0	18.0	3.9	0.2	1	13	2.2	7.8
N256196	Drill Core	0.063	8.8	2	0.02	10	0.188	5.69	0.036	0.02	0.2	23.0	19	0.4	11.1	2.9	0.2	<1	7	0.8	7.3
N256197	Rock Pulp	0.054	9.2	17	0.83	728	0.198	6.40	2.200	1.77	1.5	9.4	20	2.8	11.5	2.3	0.2	1	9	9.4	0.3
N256198	Drill Core	0.096	7.9	2	0.01	11	0.118	5.65	0.036	<0.01	0.3	26.4	19	0.7	13.8	2.1	0.1	<1	7	0.9	8.6
N256199	Drill Core	0.085	11.1	3	0.02	11	0.199	5.65	0.036	0.01	0.3	46.4	26	0.8	14.2	3.2	0.2	<1	8	1.0	7.6
N256200	Drill Core	0.080	11.9	3	<0.01	23	0.165	5.84	0.034	<0.01	0.3	36.5	26	0.8	14.4	3.1	0.2	<1	7	0.6	5.4
N256201	Drill Core	0.059	8.6	3	<0.01	19	0.174	5.69	0.029	<0.01	0.2	22.8	20	0.8	8.0	2.7	0.2	<1	6	0.7	6.7
N256203	Drill Core	0.066	6.9	3	0.05	17	0.275	7.24	0.031	1.20	0.4	39.1	17	0.9	11.9	4.8	0.3	<1	10	0.6	5.9
N256204	Drill Core	0.063	6.1	3	0.01	12	0.221	6.58	0.032	0.10	0.3	33.3	14	0.7	10.9	3.7	0.2	<1	9	0.7	5.8
N256205	Drill Core	0.066	7.7	3	<0.01	10	0.219	4.44	0.039	0.02	0.4	34.3	19	0.7	14.7	3.6	0.2	<1	5	0.5	8.3
N256206	Drill Core	0.054	3.8	3	0.04	14	0.202	6.09	0.048	0.36	0.4	34.4	10	0.6	9.9	3.5	0.2	<1	8	0.5	6.4
N256207	Drill Core	0.058	5.7	6	0.03	15	0.181	6.51	0.048	0.37	0.2	34.2	14	0.5	8.6	2.6	0.2	<1	8	0.4	6.9
N256208	Rock	0.006	1.1	<1	1.86	14	0.005	0.06	0.023	0.01	<0.1	1.8	<1	<0.1	2.1	<0.1	<0.1	<1	<1	0.9	<0.1
N256209	Drill Core	0.073	5.6	6	<0.01	14	0.108	5.04	0.033	0.01	0.1	21.5	14	0.3	9.6	1.1	<0.1	<1	6	2.5	7.8



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256178	Rock	2.1	<0.1	<0.05	<0.005	<1	1.7	<0.5
N256179	Drill Core	34.3	1.2	<0.05	<0.005	8	0.7	<0.5
N256180	Drill Core	24.7	1.0	0.08	<0.005	10	1.2	<0.5
N256181	Drill Core	20.8	1.0	<0.05	<0.005	7	0.8	<0.5
N256182	Drill Core	17.3	1.0	0.07	<0.005	5	0.8	<0.5
N256184	Drill Core	15.1	0.8	0.11	<0.005	7	1.5	<0.5
N256185	Drill Core	32.8	1.0	0.09	<0.005	5	1.8	<0.5
N256186	Drill Core	28.1	1.1	0.09	<0.005	6	0.8	<0.5
N256187	Drill Core	22.8	1.1	0.07	<0.005	4	0.6	<0.5
N256188	Drill Core	9.6	1.2	0.08	<0.005	5	1.0	<0.5
N256189	Drill Core	29.7	1.1	0.10	<0.005	6	1.7	<0.5
N256190	Rock	1.0	<0.1	<0.05	<0.005	<1	1.0	<0.5
N256191	Drill Core	21.3	1.1	0.07	<0.005	6	1.3	<0.5
N256192	Drill Core	29.3	0.9	<0.05	<0.005	5	1.2	<0.5
N256193	Drill Core	40.1	1.1	0.06	<0.005	2	3.1	<0.5
N256194	Drill Core	38.5	1.0	0.14	<0.005	4	6.2	0.7
N256195	Drill Core	24.3	0.7	<0.05	<0.005	7	3.4	<0.5
N256196	Drill Core	0.2	0.6	<0.05	<0.005	3	1.2	<0.5
N256197	Rock Pulp	38.6	0.5	0.07	0.359	<1	1.0	<0.5
N256198	Drill Core	0.1	0.7	<0.05	<0.005	3	1.0	<0.5
N256199	Drill Core	0.1	1.3	<0.05	<0.005	6	0.9	<0.5
N256200	Drill Core	<0.1	1.0	<0.05	<0.005	10	1.3	<0.5
N256201	Drill Core	<0.1	0.6	<0.05	<0.005	4	<0.5	<0.5
N256203	Drill Core	33.5	1.1	0.08	<0.005	3	<0.5	<0.5
N256204	Drill Core	2.9	0.8	0.05	<0.005	2	<0.5	<0.5
N256205	Drill Core	0.2	1.0	<0.05	<0.005	2	<0.5	<0.5
N256206	Drill Core	9.3	0.9	<0.05	<0.005	2	<0.5	<0.5
N256207	Drill Core	9.1	0.8	0.08	<0.005	2	<0.5	<0.5
N256208	Rock	0.3	<0.1	<0.05	<0.005	<1	0.5	<0.5
N256209	Drill Core	<0.1	0.5	<0.05	<0.005	4	0.5	<0.5



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N256210	Drill Core	6.87	12	1.0	28.3	3.1	2	<0.1	10.6	17.8	18	5.98	6	0.4	1.5	310	<0.1	0.7	0.2	103	1.88
N256211	Drill Core	6.86	5	1.9	23.7	12.7	3	<0.1	7.0	11.6	47	3.90	9	0.6	1.7	379	<0.1	0.9	0.4	92	5.62
N256212	Drill Core	7.09	14	2.1	64.7	4.5	63	<0.1	29.7	23.2	2175	6.33	12	0.4	0.8	148	<0.1	5.4	0.7	219	2.40
N256213	Drill Core	3.30	17	3.2	42.3	4.3	57	<0.1	21.6	23.1	1880	5.87	8	0.4	0.7	238	<0.1	3.5	<0.1	212	2.97
N256215	Drill Core	7.06	32	1.1	60.8	3.2	63	<0.1	13.9	20.0	2079	5.27	12	0.4	0.7	269	<0.1	11.3	0.1	226	3.23
N256216	Drill Core	6.90	17	1.8	63.5	3.5	155	<0.1	15.5	20.8	1969	5.54	20	0.4	0.7	373	0.2	11.6	<0.1	215	4.20
N256217	Drill Core	7.31	3	2.5	56.3	4.1	192	<0.1	13.8	19.8	2360	5.25	28	0.7	1.3	321	0.3	5.3	<0.1	209	4.37
N256218	Drill Core	6.96	<2	0.9	50.9	4.4	56	<0.1	14.4	23.0	1804	5.23	31	0.7	1.2	225	<0.1	3.3	<0.1	224	3.26
N256219	Drill Core	7.05	<2	1.4	64.8	5.9	85	<0.1	27.8	31.0	1622	4.68	28	0.5	1.0	106	0.2	6.1	2.5	205	3.25
N256220	Rock Pulp	0.06	604	346.0	3884.9	26.1	104	15.9	25.8	68.0	1426	4.65	1853	2.2	1.4	452	1.0	42.1	14.0	61	5.69
N256221	Drill Core	6.31	4	0.9	52.3	7.0	41	<0.1	21.5	22.3	942	4.95	24	0.4	0.8	137	0.1	11.7	2.5	167	4.07
N256222	Drill Core	6.97	<2	1.0	42.1	7.5	104	<0.1	24.2	25.5	1989	5.23	41	0.5	1.0	446	0.1	11.4	0.1	187	4.24
N256223	Drill Core	6.95	<2	0.9	37.0	4.3	57	<0.1	26.7	27.5	2098	5.50	26	0.4	0.8	425	<0.1	8.3	0.2	196	4.83
N256224	Drill Core	6.79	<2	0.6	52.4	3.7	117	<0.1	30.2	28.7	2234	5.84	26	0.4	0.8	513	<0.1	6.9	<0.1	211	4.65
N256225	Drill Core	6.88	<2	0.8	49.9	5.2	111	<0.1	27.7	29.7	2547	5.74	20	0.4	0.8	408	<0.1	5.8	0.1	207	4.35
N256226	Rock	1.30	<2	<0.1	2.5	0.6	5	<0.1	0.4	0.4	138	0.14	<1	0.1	<0.1	81	0.1	<0.1	<0.1	1	34.12
N255927	Drill Core	3.91	6	4.1	60.5	31.1	4	<0.1	4.6	8.0	26	2.62	8	0.9	2.4	398	0.1	1.2	1.6	163	0.19
N255954	Drill Core	2.56	9	22.3	156.8	60.9	5	0.1	4.0	7.3	23	5.74	5	2.6	6.2	803	<0.1	0.5	0.2	137	0.17
N255993	Drill Core	3.47	4	7.9	51.1	36.5	15	<0.1	10.9	18.9	11	5.58	5	1.4	4.2	381	0.2	0.5	0.2	127	0.10
N256013	Drill Core	3.50	<2	5.9	159.9	13.6	98	<0.1	7.8	17.0	883	5.24	<1	1.8	4.0	85	0.2	0.3	1.2	113	2.59
N256032	Drill Core	4.11	<2	2.7	76.3	6.5	73	<0.1	8.2	19.0	1154	4.98	<1	1.9	4.2	238	0.2	0.2	<0.1	156	3.88
N256046	Drill Core	4.09	7	1.2	111.0	5.8	74	<0.1	8.5	15.9	1364	4.63	<1	1.5	2.9	58	<0.1	0.1	0.2	182	1.65
N256067	Drill Core	3.81	<2	3.5	93.3	14.8	109	<0.1	15.6	21.2	28	5.32	2	2.5	5.7	180	0.5	0.4	0.5	135	0.14



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256210	Drill Core	0.073	5.8	7	<0.01	9	0.057	5.96	0.031	0.01	<0.1	18.0	14	0.2	5.1	0.5	<0.1	<1	6	1.2	8.2
N256211	Drill Core	0.084	7.5	9	0.07	15	0.149	4.85	0.034	0.45	0.5	26.2	18	1.2	15.0	1.6	<0.1	<1	9	5.9	8.6
N256212	Drill Core	0.061	7.7	44	2.28	18	0.459	7.58	0.137	1.51	0.2	18.2	18	1.4	14.7	3.4	0.2	1	29	3.6	8.3
N256213	Drill Core	0.092	7.6	24	2.11	21	0.440	7.54	0.668	0.71	0.2	17.9	17	0.7	14.1	4.1	0.2	<1	22	4.4	7.2
N256215	Drill Core	0.066	7.7	17	2.54	43	0.431	7.44	0.624	0.68	0.1	14.2	17	1.2	14.8	3.9	0.2	<1	23	5.7	5.7
N256216	Drill Core	0.072	8.7	17	2.39	35	0.448	8.23	1.156	0.44	0.4	18.2	19	1.1	14.8	4.1	0.2	<1	23	4.5	5.9
N256217	Drill Core	0.089	11.9	17	3.46	51	0.458	8.68	0.157	0.39	0.2	36.2	25	0.8	18.1	4.4	0.2	<1	24	6.2	3.7
N256218	Drill Core	0.078	9.2	18	2.69	52	0.453	8.24	0.263	0.82	0.1	39.1	21	0.8	16.6	4.4	0.2	<1	23	5.0	4.2
N256219	Drill Core	0.074	7.6	23	3.54	22	0.411	8.41	0.079	0.84	0.3	23.3	16	2.2	13.8	3.6	0.2	1	21	9.2	6.3
N256220	Rock Pulp	0.058	15.5	33	0.78	719	0.138	5.92	1.695	1.60	4.0	20.8	23	3.0	8.9	1.8	<0.1	<1	6	13.0	0.6
N256221	Drill Core	0.064	5.7	16	2.55	29	0.329	6.65	0.114	0.88	0.1	19.7	13	1.8	9.7	3.2	0.2	<1	18	4.9	8.4
N256222	Drill Core	0.069	10.8	23	3.49	34	0.394	8.11	1.484	0.48	0.2	21.5	22	0.7	14.9	3.8	0.2	1	22	5.5	5.6
N256223	Drill Core	0.059	8.8	23	3.43	30	0.401	8.11	1.337	0.52	0.2	17.6	18	0.8	14.5	3.3	0.2	<1	23	4.5	6.6
N256224	Drill Core	0.066	9.0	26	3.77	39	0.418	8.27	1.602	0.31	0.2	20.0	19	1.0	13.9	3.1	0.2	<1	25	5.5	5.9
N256225	Drill Core	0.070	9.8	27	3.98	44	0.417	8.22	1.542	0.41	0.2	19.3	20	0.8	15.0	3.4	0.2	<1	24	6.6	5.6
N256226	Rock	0.006	1.6	2	2.09	32	0.006	0.19	0.098	0.04	<0.1	1.4	1	0.1	2.3	0.2	<0.1	<1	<1	1.7	<0.1
N255927	Drill Core	0.102	10.3	12	0.03	56	0.314	9.33	0.185	0.18	0.3	60.8	19	10.6	5.2	4.1	0.3	<1	8	1.5	3.5
N255954	Drill Core	0.128	27.8	12	0.01	21	0.397	6.49	0.020	0.06	1.1	87.3	58	2.4	10.5	10.0	0.6	<1	14	3.8	3.6
N255993	Drill Core	0.087	17.2	15	<0.01	63	0.213	8.63	0.008	<0.01	0.7	54.3	39	4.5	6.8	3.3	0.2	<1	10	6.7	6.3
N256013	Drill Core	0.068	12.7	10	1.76	18	0.197	7.04	0.678	1.97	0.3	112.1	29	2.1	17.6	3.7	0.2	<1	17	7.9	6.8
N256032	Drill Core	0.074	14.5	16	1.61	52	0.393	7.47	1.589	1.70	0.6	131.4	31	1.3	24.9	7.3	0.5	<1	19	6.6	4.9
N256046	Drill Core	0.067	12.8	13	1.94	49	0.302	7.96	0.058	1.96	0.2	65.7	29	2.0	20.5	4.5	0.3	<1	23	8.5	3.5
N256067	Drill Core	0.031	13.8	20	<0.01	20	0.354	8.80	0.017	0.02	0.6	137.4	32	2.9	16.6	8.8	0.5	<1	15	2.0	6.0



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256210	Drill Core	<0.1	0.5	<0.05	<0.005	3	<0.5	<0.5
N256211	Drill Core	7.5	0.8	<0.05	<0.005	6	0.6	<0.5
N256212	Drill Core	37.1	0.5	0.11	<0.005	6	2.6	<0.5
N256213	Drill Core	11.6	0.6	0.06	<0.005	5	3.6	<0.5
N256215	Drill Core	6.1	0.5	0.09	<0.005	7	9.6	<0.5
N256216	Drill Core	5.2	0.7	0.08	<0.005	6	7.3	<0.5
N256217	Drill Core	7.5	1.3	0.13	<0.005	3	4.3	<0.5
N256218	Drill Core	10.3	1.2	0.07	<0.005	4	4.9	<0.5
N256219	Drill Core	18.5	0.7	0.21	<0.005	8	5.2	0.5
N256220	Rock Pulp	36.0	0.7	0.16	0.337	4	3.1	<0.5
N256221	Drill Core	7.2	0.7	0.19	<0.005	12	2.3	0.7
N256222	Drill Core	8.7	0.8	0.11	<0.005	9	6.5	<0.5
N256223	Drill Core	8.6	0.7	0.10	<0.005	11	3.1	<0.5
N256224	Drill Core	5.6	0.8	0.05	<0.005	10	5.6	<0.5
N256225	Drill Core	8.4	0.8	<0.05	<0.005	11	4.5	<0.5
N256226	Rock	1.2	<0.1	<0.05	<0.005	<1	3.6	<0.5
N255927	Drill Core	1.1	1.7	0.08	0.182	18	1.0	1.5
N255954	Drill Core	0.6	2.3	0.21	0.028	15	1.2	<0.5
N255993	Drill Core	0.4	1.4	0.10	0.016	20	0.5	<0.5
N256013	Drill Core	79.2	2.9	0.20	0.016	31	0.7	1.6
N256032	Drill Core	51.8	3.5	0.07	<0.005	20	0.9	0.6
N256046	Drill Core	51.4	1.8	0.06	<0.005	11	0.8	1.1
N256067	Drill Core	0.7	3.7	0.30	<0.005	13	0.6	<0.5



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QUALITY CONTROL REPORT

VAN18003766.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N256098	Drill Core	7.49	<2	2.3	97.1	10.4	16	<0.1	19.7	27.3	18	8.37	10	0.3	1.3	1048	<0.1	0.6	0.3	266	0.20
REP N256098	QC		<2																		
N256110	Drill Core	8.56	<2	1.3	25.5	6.5	78	<0.1	5.2	18.5	69	4.37	9	0.9	2.1	350	0.4	0.4	0.1	197	0.26
REP N256110	QC			1.6	25.3	6.3	81	<0.1	5.0	18.3	67	4.30	9	0.9	2.1	333	0.4	0.6	0.1	195	0.26
N256134	Drill Core	8.08	<2	1.1	62.1	6.3	131	<0.1	6.8	18.9	1858	5.25	24	1.0	2.3	273	0.4	1.6	<0.1	180	3.85
REP N256134	QC		<2																		
N256146	Drill Core	8.95	<2	1.0	47.0	4.2	33	<0.1	4.7	20.4	1282	4.27	13	1.0	2.3	313	0.1	2.5	0.4	134	3.98
REP N256146	QC			0.7	48.1	4.3	35	<0.1	5.4	19.1	1282	4.22	13	1.0	2.4	317	<0.1	2.3	0.4	134	4.01
N256170	Drill Core	9.06	2	0.8	55.6	16.6	56	0.1	10.2	24.8	360	6.85	9	0.7	0.7	105	<0.1	1.1	<0.1	253	0.44
REP N256170	QC		<2																		
N256182	Drill Core	3.73	<2	0.8	47.0	3.0	20	<0.1	5.4	16.8	1302	5.35	17	0.7	1.7	215	<0.1	1.4	<0.1	189	2.79
REP N256182	QC			0.9	47.0	2.9	20	<0.1	5.5	16.4	1320	5.39	17	0.8	1.6	212	<0.1	1.3	<0.1	191	2.82
N256207	Drill Core	7.17	26	1.2	37.1	2.0	7	<0.1	6.5	12.6	22	5.16	6	0.8	2.2	215	<0.1	1.6	0.4	119	1.34
REP N256207	QC		45																		
N256217	Drill Core	7.31	3	2.5	56.3	4.1	192	<0.1	13.8	19.8	2360	5.25	28	0.7	1.3	321	0.3	5.3	<0.1	209	4.37
REP N256217	QC			2.6	56.5	3.6	173	<0.1	13.6	18.9	2359	5.12	28	0.7	1.2	317	0.3	5.3	<0.1	206	4.28
N255927	Drill Core	3.91	6	4.1	60.5	31.1	4	<0.1	4.6	8.0	26	2.62	8	0.9	2.4	398	0.1	1.2	1.6	163	0.19
REP N255927	QC		5																		
N256032	Drill Core	4.11	<2	2.7	76.3	6.5	73	<0.1	8.2	19.0	1154	4.98	<1	1.9	4.2	238	0.2	0.2	<0.1	156	3.88
REP N256032	QC		<2																		
Core Reject Duplicates																					
N256107	Drill Core	8.80	<2	0.8	45.5	6.0	46	0.3	6.5	17.5	65	4.70	9	1.3	3.1	170	0.2	0.8	0.3	146	0.24
DUP N256107	QC		<2	0.9	44.1	6.4	41	0.2	6.8	17.6	64	4.76	8	1.4	3.4	174	<0.1	0.7	0.3	147	0.25
N256143	Drill Core	8.45	<2	2.0	39.8	7.0	62	<0.1	5.5	20.0	536	5.27	5	0.8	1.7	271	0.2	0.6	0.5	168	3.61
DUP N256143	QC		<2	2.7	39.1	7.4	62	<0.1	5.0	19.5	558	5.28	3	0.9	1.8	274	<0.1	0.6	0.5	170	3.55
N256178	Rock	1.04	<2	<0.1	1.0	0.5	3	<0.1	0.1	<0.2	127	0.11	<1	0.2	<0.1	79	<0.1	<0.1	<0.1	2	33.25
DUP N256178	QC		<2	<0.1	0.8	0.8	2	<0.1	<0.1	<0.2	108	0.09	2	0.2	<0.1	77	<0.1	<0.1	<0.1	<1	32.94
N256215	Drill Core	7.06	32	1.1	60.8	3.2	63	<0.1	13.9	20.0	2079	5.27	12	0.4	0.7	269	<0.1	11.3	0.1	226	3.23



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QUALITY CONTROL REPORT

VAN18003766.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N256098	Drill Core	0.127	3.1	13	<0.01	24	0.415	10.34	0.035	0.03	0.2	7.7	8	2.6	2.7	3.7	0.2	<1	12	3.5	9.7
REP N256098	QC																				
N256110	Drill Core	0.090	7.1	5	0.10	24	0.475	8.65	0.181	1.47	0.4	52.6	18	1.1	15.0	5.7	0.3	1	18	0.3	4.8
REP N256110	QC	0.087	7.1	6	0.10	21	0.462	8.27	0.167	1.41	0.5	50.4	17	1.1	14.8	5.3	0.3	<1	17	0.2	4.8
N256134	Drill Core	0.071	11.4	8	1.95	27	0.423	8.20	0.431	0.50	0.3	51.5	24	1.2	16.8	4.0	0.3	<1	18	2.7	6.5
REP N256134	QC																				
N256146	Drill Core	0.075	9.7	5	1.34	49	0.372	7.16	0.488	0.41	0.2	59.4	21	1.6	12.9	4.6	0.3	<1	12	2.9	5.5
REP N256146	QC	0.077	9.2	5	1.35	36	0.364	7.25	0.510	0.39	0.2	60.6	21	1.3	14.3	4.5	0.3	<1	12	2.8	5.5
N256170	Drill Core	0.067	1.8	7	1.59	14	0.573	8.34	0.217	1.45	0.5	28.4	6	1.4	11.6	4.9	0.3	1	19	3.7	7.8
REP N256170	QC																				
N256182	Drill Core	0.097	14.0	3	1.81	19	0.489	7.54	0.171	0.64	0.2	27.5	32	1.2	23.3	5.5	0.3	1	16	3.7	5.4
REP N256182	QC	0.099	13.6	3	1.81	24	0.487	7.68	0.174	0.63	0.3	27.9	32	1.0	22.6	5.7	0.3	<1	17	3.2	5.6
N256207	Drill Core	0.058	5.7	6	0.03	15	0.181	6.51	0.048	0.37	0.2	34.2	14	0.5	8.6	2.6	0.2	<1	8	0.4	6.9
REP N256207	QC																				
N256217	Drill Core	0.089	11.9	17	3.46	51	0.458	8.68	0.157	0.39	0.2	36.2	25	0.8	18.1	4.4	0.2	<1	24	6.2	3.7
REP N256217	QC	0.079	11.5	18	3.47	51	0.451	8.62	0.146	0.39	0.2	39.6	24	0.9	18.0	4.4	0.2	1	24	5.9	3.7
N255927	Drill Core	0.102	10.3	12	0.03	56	0.314	9.33	0.185	0.18	0.3	60.8	19	10.6	5.2	4.1	0.3	<1	8	1.5	3.5
REP N255927	QC																				
N256032	Drill Core	0.074	14.5	16	1.61	52	0.393	7.47	1.589	1.70	0.6	131.4	31	1.3	24.9	7.3	0.5	<1	19	6.6	4.9
REP N256032	QC																				
Core Reject Duplicates																					
N256107	Drill Core	0.065	13.7	9	0.07	34	0.347	7.98	0.059	0.16	11.7	67.3	29	1.2	9.9	4.7	0.3	<1	15	0.8	4.9
DUP N256107	QC	0.069	14.7	9	0.07	24	0.386	7.92	0.060	0.16	9.2	74.5	31	1.1	10.9	4.9	0.3	<1	16	0.7	5.1
N256143	Drill Core	0.071	6.9	4	0.86	16	0.409	7.62	0.444	1.08	0.3	42.2	17	2.5	11.4	4.6	0.3	<1	12	2.1	8.3
DUP N256143	QC	0.074	6.9	4	0.86	17	0.420	7.79	0.482	1.06	0.4	42.0	18	2.1	11.7	4.6	0.3	1	13	2.1	8.2
N256178	Rock	0.006	1.4	<1	1.57	29	0.008	0.20	0.057	0.07	<0.1	2.4	1	<0.1	2.6	0.4	<0.1	<1	<1	0.8	<0.1
DUP N256178	QC	0.005	1.4	<1	1.56	29	0.006	0.18	0.058	0.07	<0.1	1.8	1	<0.1	2.5	0.3	<0.1	<1	<1	0.8	<0.1
N256215	Drill Core	0.066	7.7	17	2.54	43	0.431	7.44	0.624	0.68	0.1	14.2	17	1.2	14.8	3.9	0.2	<1	23	5.7	5.7



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N256098	Drill Core	0.4	0.2	<0.05	0.030	19	1.4	<0.5
REP N256098	QC							
N256110	Drill Core	32.4	1.5	0.06	<0.005	6	<0.5	0.7
REP N256110	QC	31.3	1.4	0.11	<0.005	6	<0.5	0.6
N256134	Drill Core	8.3	1.6	0.06	<0.005	8	1.0	<0.5
REP N256134	QC							
N256146	Drill Core	3.3	1.8	0.21	<0.005	10	1.2	<0.5
REP N256146	QC	3.8	1.8	0.16	<0.005	10	0.8	<0.5
N256170	Drill Core	26.8	0.8	<0.05	<0.005	5	1.1	<0.5
REP N256170	QC							
N256182	Drill Core	17.3	1.0	0.07	<0.005	5	0.8	<0.5
REP N256182	QC	17.1	1.0	0.06	<0.005	6	0.6	<0.5
N256207	Drill Core	9.1	0.8	0.08	<0.005	2	<0.5	<0.5
REP N256207	QC							
N256217	Drill Core	7.5	1.3	0.13	<0.005	3	4.3	<0.5
REP N256217	QC	7.6	1.2	0.07	<0.005	3	3.7	<0.5
N255927	Drill Core	1.1	1.7	0.08	0.182	18	1.0	1.5
REP N255927	QC							
N256032	Drill Core	51.8	3.5	0.07	<0.005	20	0.9	0.6
REP N256032	QC							
Core Reject Duplicates								
N256107	Drill Core	4.2	1.8	0.15	<0.005	2	0.7	<0.5
DUP N256107	QC	3.8	2.1	0.14	<0.005	3	0.8	<0.5
N256143	Drill Core	17.9	1.1	0.13	<0.005	4	0.6	0.6
DUP N256143	QC	17.6	1.2	0.10	<0.005	4	<0.5	0.7
N256178	Rock	2.1	<0.1	<0.05	<0.005	<1	1.7	<0.5
DUP N256178	QC	2.1	<0.1	<0.05	<0.005	<1	1.7	<0.5
N256215	Drill Core	6.1	0.5	0.09	<0.005	7	9.6	<0.5



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP N256215	QC		24	1.2	72.4	3.4	75	<0.1	14.9	22.6	2164	5.46	14	0.4	0.7	285	0.1	12.5	0.1	234	3.36
Reference Materials																					
STD OREAS25A-4A	Standard			2.5	38.9	26.4	51	<0.1	46.4	8.2	518	6.65	9	3.0	16.7	49	<0.1	0.6	0.3	155	0.28
STD OREAS25A-4A	Standard			2.6	31.1	23.1	43	<0.1	43.0	7.4	492	6.58	10	2.7	14.7	48	<0.1	0.6	0.4	165	0.30
STD OREAS25A-4A	Standard			2.2	32.7	23.9	36	<0.1	42.6	7.1	457	6.53	9	2.7	15.5	47	<0.1	0.7	0.3	161	0.30
STD OREAS25A-4A	Standard			2.5	31.2	23.5	37	<0.1	40.8	7.5	456	6.32	9	2.6	16.1	47	<0.1	0.7	0.4	158	0.28
STD OREAS25A-4A	Standard			2.3	30.9	23.4	36	<0.1	42.4	8.1	472	6.38	9	2.6	16.2	45	<0.1	0.6	0.4	155	0.28
STD OREAS45E	Standard			2.2	806.3	19.9	50	0.4	503.6	64.0	574	24.83	16	2.8	14.9	18	<0.1	1.0	0.3	337	0.07
STD OREAS45E	Standard			2.6	798.6	18.7	48	0.3	483.0	60.1	601	25.46	17	2.5	13.3	16	<0.1	1.1	0.3	329	0.07
STD OREAS45E	Standard			2.4	767.0	18.7	43	0.3	458.4	57.1	539	24.82	16	2.5	13.1	16	<0.1	1.0	0.3	315	0.07
STD OREAS45E	Standard			2.0	776.8	18.5	41	0.3	471.2	56.8	554	24.21	16	2.5	14.1	17	<0.1	1.0	0.3	322	0.08
STD OREAS45E	Standard			2.3	795.2	18.7	43	0.3	501.1	62.6	585	24.61	16	2.6	11.2	17	<0.1	1.1	0.3	334	0.06
STD OXC145	Standard		202																		
STD OXC145	Standard		215																		
STD OXC145	Standard		210																		
STD OXC145	Standard		208																		
STD OXC145	Standard		205																		
STD OXC145	Standard		212																		
STD OXH139	Standard		1262																		
STD OXH139	Standard		1360																		
STD OXH139	Standard		1264																		
STD OXH139	Standard		1283																		
STD OXH139	Standard		1303																		
STD OXH139	Standard		1304																		
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<2																		



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP N256215	QC	0.076	7.1	19	2.67	41	0.480	7.94	0.655	0.75	0.2	15.4	16	1.3	14.3	4.4	0.2	<1	22	6.4	5.9
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	22.2	110	0.32	158	0.915	9.55	0.123	0.48	1.9	151.7	49	3.6	9.9	19.3	1.4	<1	12	40.6	<0.1
STD OREAS25A-4A	Standard	0.049	22.0	119	0.31	149	0.902	8.69	0.128	0.47	1.8	148.9	46	3.7	9.9	19.6	1.4	<1	13	38.4	<0.1
STD OREAS25A-4A	Standard	0.051	22.8	107	0.33	142	0.866	8.97	0.127	0.47	1.9	143.6	49	4.0	9.9	18.3	1.3	<1	13	35.1	<0.1
STD OREAS25A-4A	Standard	0.045	20.6	97	0.31	133	0.877	8.64	0.117	0.48	1.6	136.6	44	3.6	9.4	17.2	1.3	<1	11	35.6	<0.1
STD OREAS25A-4A	Standard	0.046	21.4	113	0.33	132	0.921	8.82	0.112	0.44	1.6	135.4	45	3.6	9.4	17.6	1.3	1	12	35.0	<0.1
STD OREAS45E	Standard	0.032	12.1	1047	0.16	267	0.525	7.26	0.056	0.35	1.0	101.6	26	1.4	8.4	6.3	0.5	<1	91	7.3	<0.1
STD OREAS45E	Standard	0.034	11.6	1045	0.16	265	0.544	7.03	0.058	0.35	1.1	99.0	26	1.4	8.6	6.5	0.5	1	97	6.5	<0.1
STD OREAS45E	Standard	0.035	10.7	985	0.17	230	0.492	6.92	0.057	0.33	1.0	91.8	23	1.4	7.4	5.9	0.5	<1	95	6.7	<0.1
STD OREAS45E	Standard	0.033	11.0	939	0.16	246	0.541	6.74	0.052	0.33	1.0	90.5	24	1.2	7.6	6.0	0.5	<1	87	7.3	<0.1
STD OREAS45E	Standard	0.032	12.0	1069	0.17	249	0.533	6.81	0.053	0.32	0.8	88.8	25	1.2	8.0	5.7	0.5	<1	92	6.8	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				



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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP N256215	QC	5.9	0.6	<0.05	<0.005	7	10.2	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	59.3	4.4	0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.5	3.8	0.07	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.1	4.0	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	58.0	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	56.1	3.7	0.06	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.1	<0.05	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.3	2.9	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.5	2.7	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.5	3.1	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.7	2.8	0.15	<0.005	3	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank		<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.5	0.2	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<2	0.9	5.6	3.1	34	<0.1	0.7	3.8	643	2.09	1	1.3	3.0	194	<0.1	0.1	<0.1	36	1.53
ROCK-VAN	Prep Blank		<2	0.8	5.5	2.9	32	<0.1	0.7	4.1	612	2.09	2	1.3	2.9	195	<0.1	<0.1	<0.1	36	1.51



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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.044	13.3	3	0.49	769	0.193	6.96	3.570	1.66	0.6	48.5	25	0.8	16.0	5.4	0.4	<1	7	3.3	<0.1
ROCK-VAN	Prep Blank	0.040	13.1	4	0.50	713	0.188	6.87	3.471	1.58	0.3	49.3	25	0.7	15.4	5.1	0.4	<1	7	3.4	<0.1



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 24, 2019

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QUALITY CONTROL REPORT

VAN18003766.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	38.8	1.6	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	36.1	1.8	<0.05	<0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 27, 2018

Report Date: January 24, 2019

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CERTIFICATE OF ANALYSIS

VAN18003780.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	76	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	4	Sort, label and box pulps			VAN
FA350-Au	80	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	80	Environmental disposal charge-Fire assay lead waste			VAN
MA200	80	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	80	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

VAN18003780.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256227	Drill Core	7.26	<2	0.2	43.8	7.4	185	<0.1	26.6	27.4	2527	5.73	24	0.5	0.7	481	0.3	4.4	<0.1	192	5.52
N256228	Drill Core	6.81	<2	1.4	34.0	9.3	75	<0.1	15.6	17.3	1171	4.27	13	0.6	1.2	417	0.2	4.7	0.1	136	5.83
N256229	Drill Core	6.62	<2	1.4	21.5	6.5	32	<0.1	9.8	14.7	482	4.09	2	0.4	1.3	465	<0.1	2.5	0.4	108	6.17
N256230	Drill Core	6.51	<2	1.1	27.1	5.7	59	<0.1	8.9	15.4	838	4.19	2	0.6	1.4	399	0.2	3.9	0.4	96	4.24
N256231	Drill Core	3.54	<2	4.3	32.7	4.3	64	<0.1	8.8	13.4	828	3.98	4	0.6	1.3	396	<0.1	4.0	0.7	94	4.74
N256233	Drill Core	7.25	<2	2.2	29.4	4.1	71	<0.1	10.0	13.2	1043	4.14	3	0.7	1.7	494	<0.1	3.3	0.4	108	4.63
N256234	Drill Core	6.64	<2	1.1	47.1	18.1	156	<0.1	21.8	21.7	2938	5.23	11	0.7	1.5	578	0.4	5.8	<0.1	154	5.91
N256235	Drill Core	6.90	<2	0.6	38.3	9.2	124	<0.1	14.2	21.5	1870	5.18	5	0.4	0.7	593	0.2	4.3	0.1	182	5.59
N256236	Drill Core	6.31	<2	0.9	43.9	5.8	78	<0.1	12.8	19.7	1799	5.19	13	0.4	0.7	615	<0.1	3.5	0.1	194	4.78
N256237	Drill Core	6.63	<2	0.8	49.3	5.3	78	<0.1	21.8	25.8	2039	5.49	14	0.4	0.8	551	<0.1	2.8	0.2	221	5.09
N256238	Rock	1.26	<2	<0.1	0.7	0.5	3	<0.1	2.1	0.6	134	0.13	<1	0.4	<0.1	93	<0.1	<0.1	<0.1	2	35.08
N256239	Drill Core	7.20	<2	0.5	43.3	5.3	110	<0.1	20.1	22.0	1681	5.27	7	0.3	0.7	408	0.2	3.0	0.3	188	4.98
N256240	Drill Core	6.50	<2	0.5	53.2	5.7	67	<0.1	21.4	24.9	1797	5.50	22	0.4	0.8	537	<0.1	3.2	0.1	210	5.61
N256241	Drill Core	7.24	<2	0.6	58.6	4.4	85	<0.1	22.0	27.1	1682	5.75	30	0.6	1.2	567	0.1	4.0	0.1	222	6.35
N256242	Drill Core	6.85	<2	0.8	57.6	6.2	109	<0.1	20.7	26.7	1771	5.83	16	0.5	0.9	598	0.3	4.5	<0.1	219	5.77
N256243	Drill Core	6.87	<2	0.5	50.9	5.5	72	<0.1	26.3	26.7	1720	6.09	10	0.4	0.8	546	<0.1	4.7	<0.1	212	4.85
N256244	Rock Pulp	0.06	204	398.1	1901.5	27.3	59	13.1	13.8	9.7	758	3.59	13	1.2	2.3	412	0.5	30.7	2.0	89	2.70
N256245	Drill Core	7.19	<2	0.4	44.5	5.6	88	<0.1	11.9	21.8	973	5.38	14	0.4	0.8	473	0.2	5.8	0.2	197	8.22
N256246	Drill Core	6.78	<2	1.0	38.7	5.0	89	<0.1	10.3	28.2	2115	6.20	22	0.6	1.1	539	<0.1	5.7	0.2	259	4.81
N256247	Drill Core	7.25	<2	1.5	34.7	8.1	195	<0.1	6.9	19.0	1364	4.68	9	0.8	1.7	301	0.6	7.7	0.5	174	4.64
N256248	Drill Core	3.06	<2	1.1	30.4	4.8	45	<0.1	4.3	16.3	1443	4.69	14	0.9	2.1	291	<0.1	5.3	0.3	177	5.13
N256250	Drill Core	6.30	<2	0.7	40.0	3.2	65	<0.1	4.9	18.3	1051	5.18	17	1.0	2.2	344	0.2	7.8	0.1	177	4.54
N256251	Drill Core	6.43	<2	1.2	47.9	3.6	53	<0.1	4.7	17.1	1197	4.97	21	0.9	2.1	443	0.1	8.5	0.2	197	4.56
N256252	Drill Core	7.18	<2	0.7	64.7	6.9	145	<0.1	11.1	21.9	1191	5.54	21	0.4	0.9	410	0.3	13.0	0.1	234	4.93
N256253	Drill Core	6.88	<2	0.4	48.9	3.8	89	<0.1	13.8	23.9	1416	5.80	17	0.4	0.8	442	0.1	15.0	0.1	242	5.48
N256254	Rock	1.27	<2	<0.1	0.6	0.4	3	<0.1	0.3	0.3	128	0.13	<1	0.4	<0.1	88	<0.1	0.1	<0.1	1	34.20
N256255	Drill Core	7.49	<2	0.9	38.9	3.7	41	<0.1	23.9	31.4	1531	6.12	36	0.4	0.6	379	<0.1	12.9	0.1	245	5.47
N256256	Drill Core	6.74	<2	0.3	69.1	6.9	78	<0.1	25.1	31.6	2280	6.32	48	0.3	0.7	489	0.1	24.6	<0.1	233	6.17
N256257	Drill Core	6.66	<2	0.7	55.4	4.5	53	<0.1	18.5	28.5	1670	6.37	25	0.3	0.9	390	<0.1	16.4	<0.1	252	4.09
N256258	Drill Core	6.96	<2	0.5	57.0	3.2	53	<0.1	20.2	25.9	1100	6.08	24	0.3	0.8	231	<0.1	10.9	0.2	239	5.10



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Project: Pemberton

Report Date: January 24, 2019

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CERTIFICATE OF ANALYSIS

VAN18003780.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N256227	Drill Core	0.065	7.7	22	4.40	48	0.428	8.16	1.126	0.09	0.1	24.0	17	0.7	12.8	3.3	0.2	<1	21	6.2	4.3
N256228	Drill Core	0.077	9.5	13	2.89	64	0.348	8.02	0.691	0.85	0.3	29.7	22	1.4	12.0	4.0	0.3	<1	15	5.4	6.5
N256229	Drill Core	0.088	8.2	7	1.26	27	0.295	7.58	0.972	1.26	0.2	41.3	20	1.3	11.1	5.0	0.3	<1	9	2.9	8.2
N256230	Drill Core	0.092	11.0	8	1.64	43	0.279	7.21	1.357	1.03	0.2	36.1	26	1.2	10.7	4.4	0.3	<1	9	2.9	6.8
N256231	Drill Core	0.222	11.3	7	1.54	26	0.248	7.59	1.353	1.25	0.3	34.1	25	1.9	11.4	4.4	0.3	<1	9	2.4	6.6
N256233	Drill Core	0.100	13.9	9	1.90	23	0.303	8.27	1.786	0.80	0.3	45.5	30	0.7	12.4	5.3	0.4	<1	10	3.1	6.2
N256234	Drill Core	0.091	13.6	23	2.91	33	0.365	8.67	1.675	0.65	0.2	38.8	29	0.6	14.8	4.6	0.3	<1	17	5.4	7.0
N256235	Drill Core	0.075	9.9	16	3.03	40	0.396	8.56	1.944	0.49	0.2	22.9	21	0.9	14.7	3.2	0.2	<1	17	5.2	6.8
N256236	Drill Core	0.080	11.0	10	3.11	48	0.434	9.06	2.424	0.48	0.3	21.5	24	1.0	15.7	3.6	0.2	<1	18	4.1	6.3
N256237	Drill Core	0.082	9.6	19	3.25	76	0.467	9.30	2.058	0.36	0.2	19.6	22	0.9	16.2	3.5	0.2	<1	22	4.7	5.9
N256238	Rock	0.006	1.6	1	1.82	20	0.006	0.13	0.045	0.04	<0.1	1.9	1	0.1	2.6	0.6	<0.1	<1	<1	0.6	<0.1
N256239	Drill Core	0.069	8.7	16	3.28	16	0.410	8.39	2.385	0.74	0.2	20.8	20	1.2	15.1	3.0	0.2	<1	20	3.7	7.4
N256240	Drill Core	0.077	10.0	20	2.93	69	0.460	9.15	2.226	0.32	0.2	29.2	22	0.7	16.9	3.4	0.2	<1	23	4.6	5.1
N256241	Drill Core	0.079	10.2	20	2.55	256	0.472	9.48	2.044	0.39	0.2	55.5	22	1.2	18.5	3.4	0.2	<1	24	5.5	3.2
N256242	Drill Core	0.075	9.5	22	2.87	119	0.476	9.18	2.202	0.46	0.2	30.2	22	0.9	17.3	3.4	0.2	1	22	4.6	4.6
N256243	Drill Core	0.067	9.3	32	2.99	64	0.455	9.00	2.049	0.35	0.1	15.6	20	1.0	15.2	3.1	0.2	<1	24	4.6	6.1
N256244	Rock Pulp	0.053	9.4	17	0.86	708	0.199	7.25	2.262	1.75	1.8	8.9	21	2.8	10.9	2.5	0.2	<1	9	8.3	0.3
N256245	Drill Core	0.059	8.6	9	1.95	16	0.377	7.20	0.926	0.62	0.2	17.7	19	1.2	14.4	2.7	0.2	<1	18	4.1	>10
N256246	Drill Core	0.084	9.7	4	2.42	23	0.482	8.74	1.592	0.28	0.2	31.4	22	1.0	15.7	3.4	0.2	<1	21	5.4	6.4
N256247	Drill Core	0.070	10.7	2	2.72	15	0.360	7.99	0.869	1.02	0.3	25.9	24	1.3	15.2	3.8	0.3	<1	15	7.1	7.8
N256248	Drill Core	0.071	12.5	3	1.99	25	0.378	8.19	0.850	0.95	0.3	39.3	28	1.1	16.4	4.1	0.3	1	16	4.9	5.7
N256250	Drill Core	0.071	13.9	3	2.05	21	0.395	8.42	1.173	0.65	0.2	35.5	29	0.8	16.5	4.2	0.3	<1	16	5.7	6.6
N256251	Drill Core	0.080	10.6	3	1.98	25	0.417	8.75	1.383	0.88	0.3	44.2	25	1.1	16.3	4.4	0.3	1	16	5.2	6.4
N256252	Drill Core	0.059	8.3	12	2.66	33	0.448	8.99	1.582	0.80	0.3	14.0	19	1.0	13.2	3.0	0.2	<1	22	6.5	7.0
N256253	Drill Core	0.062	7.3	20	2.62	39	0.449	9.02	1.544	0.53	0.2	12.8	18	0.6	13.6	2.7	0.2	<1	25	6.5	7.4
N256254	Rock	0.007	1.6	<1	1.68	17	0.007	0.07	0.023	0.01	<0.1	1.4	1	<0.1	2.4	0.2	<0.1	<1	<1	1.0	<0.1
N256255	Drill Core	0.059	6.5	22	2.75	27	0.461	8.98	1.151	0.49	0.2	12.7	15	0.6	14.4	2.7	0.2	<1	28	6.6	7.2
N256256	Drill Core	0.055	7.2	19	2.78	19	0.442	8.51	1.228	0.33	0.4	11.1	16	0.7	18.0	2.5	0.1	<1	26	7.7	8.9
N256257	Drill Core	0.064	8.6	19	2.80	29	0.512	9.02	0.995	0.30	0.2	12.2	20	0.9	16.5	3.3	0.2	<1	28	9.8	7.5
N256258	Drill Core	0.059	8.0	23	2.79	27	0.469	8.58	0.614	0.65	0.2	12.2	18	2.0	14.2	2.9	0.2	<1	28	7.5	7.0



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Project: Pemberton

Report Date: January 24, 2019

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CERTIFICATE OF ANALYSIS

VAN18003780.1

Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N256227	Drill Core	0.9	0.8	0.12	<0.005	8	2.4	<0.5
N256228	Drill Core	11.5	0.8	0.09	<0.005	9	3.5	<0.5
N256229	Drill Core	17.6	1.0	<0.05	<0.005	8	1.2	<0.5
N256230	Drill Core	16.1	1.0	0.06	<0.005	11	2.1	<0.5
N256231	Drill Core	24.0	0.9	0.06	<0.005	7	1.8	<0.5
N256233	Drill Core	13.9	1.1	0.07	<0.005	7	1.6	<0.5
N256234	Drill Core	13.5	1.2	<0.05	<0.005	13	4.6	<0.5
N256235	Drill Core	11.0	0.7	<0.05	<0.005	9	2.8	<0.5
N256236	Drill Core	11.3	0.8	<0.05	<0.005	10	4.2	<0.5
N256237	Drill Core	8.5	0.9	0.06	<0.005	10	6.0	<0.5
N256238	Rock	1.1	<0.1	<0.05	<0.005	<1	5.7	<0.5
N256239	Drill Core	16.8	0.8	0.06	<0.005	13	6.6	<0.5
N256240	Drill Core	7.4	1.1	0.06	<0.005	6	7.5	<0.5
N256241	Drill Core	7.0	1.9	<0.05	<0.005	6	9.8	<0.5
N256242	Drill Core	7.2	1.2	<0.05	<0.005	4	12.4	<0.5
N256243	Drill Core	6.6	0.7	0.06	<0.005	8	9.9	<0.5
N256244	Rock Pulp	36.5	0.5	0.10	0.412	<1	1.2	<0.5
N256245	Drill Core	11.5	0.6	0.10	<0.005	16	5.6	<0.5
N256246	Drill Core	3.3	1.1	0.07	<0.005	13	8.9	<0.5
N256247	Drill Core	22.5	1.0	0.08	<0.005	20	11.6	<0.5
N256248	Drill Core	20.3	1.3	<0.05	<0.005	15	10.9	<0.5
N256250	Drill Core	17.8	1.2	0.08	<0.005	21	6.3	<0.5
N256251	Drill Core	17.4	1.4	<0.05	<0.005	11	6.7	<0.5
N256252	Drill Core	15.7	0.6	0.08	<0.005	13	19.8	<0.5
N256253	Drill Core	10.8	0.5	0.06	<0.005	21	26.0	<0.5
N256254	Rock	0.3	<0.1	<0.05	<0.005	<1	8.8	<0.5
N256255	Drill Core	7.9	0.5	0.06	<0.005	16	18.3	<0.5
N256256	Drill Core	11.3	0.6	0.06	<0.005	17	28.7	<0.5
N256257	Drill Core	6.5	0.8	0.09	<0.005	14	4.5	<0.5
N256258	Drill Core	14.1	0.6	0.06	<0.005	9	3.8	<0.5



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N256259	Drill Core	3.18	<2	0.6	68.4	4.2	135	<0.1	11.0	23.5	767	6.07	33	0.3	0.7	394	0.3	8.1	0.2	240	4.18
N256261	Drill Core	6.82	<2	0.8	34.0	4.0	83	<0.1	11.1	23.8	600	5.92	26	0.3	0.7	359	0.2	3.3	0.2	247	4.40
N256262	Drill Core	7.08	<2	0.5	32.1	4.1	73	<0.1	8.1	23.2	738	5.89	23	0.3	0.8	308	0.2	2.0	0.2	259	3.90
N256263	Drill Core	7.55	<2	0.7	53.6	3.9	75	<0.1	7.0	22.0	543	5.22	22	0.3	0.7	279	0.2	4.6	0.4	216	4.15
N256264	Drill Core	7.13	<2	0.8	26.5	2.8	36	<0.1	12.9	22.6	426	5.06	28	0.5	1.2	320	<0.1	1.8	0.3	215	4.35
N256265	Drill Core	7.07	<2	1.1	77.9	4.0	44	<0.1	13.4	23.8	759	4.92	39	0.7	1.4	297	<0.1	1.6	0.2	230	3.80
N256266	Rock Pulp	0.06	652	364.7	4005.2	28.0	103	16.0	24.4	68.2	1439	4.76	1929	2.4	1.5	435	1.1	40.5	14.3	64	5.85
N256267	Drill Core	6.81	<2	0.9	71.3	2.9	57	<0.1	17.0	27.4	1517	5.54	38	0.7	1.4	406	<0.1	2.7	0.2	248	4.82
N256268	Drill Core	7.13	<2	1.1	41.4	13.6	14	<0.1	11.1	23.4	284	5.78	19	0.5	1.6	398	<0.1	0.9	0.6	181	6.52
N256269	Drill Core	6.62	<2	1.2	20.3	1.9	17	<0.1	1.5	17.4	84	5.13	16	0.6	1.3	161	<0.1	1.0	0.9	190	3.11
N256270	Drill Core	7.13	<2	1.2	21.4	2.0	31	<0.1	3.0	33.5	312	4.98	19	0.5	1.0	218	<0.1	1.2	0.6	210	3.59
N256271	Drill Core	6.54	30	0.5	39.6	2.1	21	<0.1	3.3	20.5	507	5.71	31	0.4	1.0	238	<0.1	0.9	0.4	249	4.22
N256272	Rock	1.48	<2	<0.1	2.1	0.7	4	<0.1	0.3	0.6	121	0.12	3	0.1	<0.1	87	<0.1	<0.1	<0.1	<1	35.15
N256273	Drill Core	6.52	<2	0.8	54.3	2.0	28	<0.1	3.1	22.8	604	5.42	46	0.5	1.0	333	<0.1	1.5	0.4	253	4.53
N256274	Drill Core	7.26	<2	0.8	30.4	1.7	21	<0.1	3.8	19.6	260	5.22	31	0.4	0.9	308	<0.1	2.3	0.4	232	4.27
N256275	Drill Core	7.04	<2	1.1	30.9	1.7	28	<0.1	3.5	21.6	310	5.28	20	0.5	0.9	244	<0.1	2.9	0.3	251	3.78
N256276	Drill Core	6.85	<2	0.5	21.4	1.6	28	<0.1	2.7	21.2	617	5.08	22	0.6	1.4	328	<0.1	1.2	0.3	186	2.61
N256277	Drill Core	3.09	<2	0.8	37.9	1.8	29	<0.1	2.2	14.7	619	5.09	24	0.7	1.7	409	<0.1	2.9	0.2	131	2.69
N256279	Drill Core	6.54	<2	1.6	25.0	2.1	32	<0.1	2.1	15.8	778	5.22	16	0.7	1.6	201	<0.1	1.1	0.3	132	3.76
N256280	Drill Core	6.70	<2	0.9	29.4	2.5	49	<0.1	1.8	15.4	918	5.08	23	0.8	1.6	229	<0.1	2.0	0.2	137	2.31
N256281	Drill Core	6.74	<2	0.7	40.9	2.6	46	<0.1	2.0	16.4	1275	5.04	21	0.9	1.8	445	<0.1	1.5	<0.1	135	3.57
N256282	Drill Core	6.75	<2	0.9	13.7	2.7	43	<0.1	1.6	15.5	1500	4.81	18	0.8	1.9	461	<0.1	2.5	<0.1	136	4.22
N256283	Rock	1.23	<2	<0.1	0.3	0.4	2	<0.1	<0.1	0.3	122	0.11	<1	<0.1	<0.1	80	<0.1	<0.1	<0.1	1	33.24
N256284	Drill Core	7.34	<2	0.9	22.7	2.7	64	<0.1	2.0	17.6	1969	5.23	35	1.1	2.5	524	<0.1	4.4	<0.1	138	4.99
N256285	Drill Core	7.27	<2	0.9	27.6	2.5	55	<0.1	2.0	16.1	1891	5.05	29	0.9	2.1	494	<0.1	3.0	<0.1	134	4.01
N256286	Drill Core	6.32	<2	1.4	28.8	1.5	41	<0.1	2.1	14.8	1673	5.19	11	0.8	1.6	284	<0.1	1.1	0.1	128	1.75
N256287	Drill Core	6.93	<2	2.2	15.4	2.6	50	<0.1	3.8	16.5	1179	5.27	12	0.7	1.1	128	<0.1	1.1	0.5	151	0.92
N256288	Rock Pulp	0.06	198	382.5	1990.4	28.2	57	12.8	14.8	9.9	730	3.67	14	1.2	2.1	410	0.3	33.0	2.0	85	2.90
N253657	Drill Core	8.08	3	0.9	34.1	43.0	38	<0.1	5.4	16.4	138	5.54	12	1.3	3.0	81	0.2	1.1	0.8	139	0.51
N253658	Drill Core	6.33	2	1.8	45.9	40.5	27	<0.1	7.1	17.9	184	7.18	6	1.2	2.5	50	0.1	1.2	1.2	144	0.48



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N256259	Drill Core	0.075	6.4	8	2.24	20	0.511	8.51	1.657	0.81	0.1	14.0	17	1.2	13.8	3.6	0.2	<1	19	5.4	8.4
N256261	Drill Core	0.070	6.8	7	2.08	17	0.530	8.45	1.536	0.62	0.2	12.9	18	0.7	13.2	3.5	0.2	<1	20	6.3	8.6
N256262	Drill Core	0.070	6.3	6	2.75	15	0.533	8.02	0.966	0.34	0.2	14.7	17	0.7	13.6	3.6	0.3	1	21	7.2	8.9
N256263	Drill Core	0.066	5.9	3	2.69	16	0.456	7.67	0.826	0.45	0.2	13.4	15	1.0	7.5	3.5	0.2	1	17	7.0	8.6
N256264	Drill Core	0.071	12.4	8	2.93	24	0.416	8.40	0.707	0.37	0.2	19.0	27	0.7	9.8	3.3	0.2	1	19	9.8	8.4
N256265	Drill Core	0.080	11.1	8	2.93	33	0.458	8.82	0.733	0.36	0.2	34.4	25	1.1	15.7	3.8	0.3	<1	21	10.8	6.0
N256266	Rock Pulp	0.063	15.3	31	0.78	275	0.148	6.18	1.763	1.75	3.9	20.6	24	3.3	8.4	1.7	0.1	<1	6	12.5	0.6
N256267	Drill Core	0.080	9.2	9	2.82	53	0.489	8.94	0.930	0.19	0.3	46.2	21	0.9	15.3	3.8	0.2	<1	23	5.6	5.3
N256268	Drill Core	0.070	9.8	4	1.44	23	0.298	7.06	0.155	0.27	0.2	29.5	21	1.9	13.7	2.5	0.2	<1	14	6.9	>10
N256269	Drill Core	0.062	6.0	<1	1.84	21	0.355	7.17	0.184	0.84	0.2	28.0	14	0.6	5.9	3.0	0.2	<1	14	6.3	8.0
N256270	Drill Core	0.061	6.2	1	2.25	18	0.397	7.66	0.792	0.76	0.2	21.3	16	0.7	7.5	2.8	0.2	<1	15	5.7	8.0
N256271	Drill Core	0.062	7.7	1	2.04	26	0.448	7.80	1.261	0.65	0.3	15.1	18	1.3	13.1	2.6	0.2	<1	19	4.9	7.6
N256272	Rock	0.007	1.6	<1	1.78	18	0.005	0.05	0.020	0.01	<0.1	1.4	1	<0.1	2.3	0.2	<0.1	<1	<1	0.7	<0.1
N256273	Drill Core	0.060	8.2	2	1.89	39	0.426	7.82	0.944	0.27	0.3	21.3	18	1.1	13.1	2.9	0.2	<1	18	4.3	5.8
N256274	Drill Core	0.059	6.9	2	1.86	18	0.397	7.43	1.772	0.91	0.3	14.4	17	1.0	9.1	2.6	0.2	<1	17	6.8	8.8
N256275	Drill Core	0.061	7.2	2	2.06	16	0.407	7.49	2.053	1.12	0.2	15.4	17	0.9	8.1	2.7	0.2	<1	18	5.8	8.3
N256276	Drill Core	0.078	10.4	2	2.38	18	0.352	7.78	2.494	0.81	0.3	22.3	24	0.7	12.7	3.3	0.2	<1	14	6.2	6.3
N256277	Drill Core	0.090	11.7	2	1.90	23	0.336	7.79	3.017	0.49	0.2	27.8	24	0.7	13.9	4.3	0.3	<1	9	5.3	5.9
N256279	Drill Core	0.087	9.5	2	1.88	21	0.317	7.67	2.041	1.05	0.3	25.1	23	1.0	13.3	4.0	0.2	<1	10	5.1	5.9
N256280	Drill Core	0.093	10.2	2	1.91	19	0.332	7.62	2.218	1.30	0.3	28.5	24	1.2	12.6	4.3	0.3	1	10	5.6	5.7
N256281	Drill Core	0.095	11.6	2	1.82	28	0.343	7.89	1.943	0.76	0.3	34.6	25	1.3	13.9	4.7	0.3	<1	11	4.9	5.2
N256282	Drill Core	0.094	11.7	2	1.77	86	0.348	8.02	1.815	0.78	0.3	37.2	25	0.7	13.9	4.5	0.3	1	11	4.3	3.5
N256283	Rock	0.005	1.3	<1	1.86	14	0.005	0.04	0.022	0.01	<0.1	1.3	1	<0.1	2.1	0.1	<0.1	<1	<1	0.8	<0.1
N256284	Drill Core	0.099	14.8	2	1.72	243	0.368	8.49	1.829	0.42	0.4	51.2	31	0.8	16.1	4.9	0.3	<1	12	4.5	2.2
N256285	Drill Core	0.099	12.8	2	1.85	76	0.364	8.14	1.843	0.50	0.3	45.8	27	0.9	14.8	4.9	0.3	1	12	5.5	3.5
N256286	Drill Core	0.098	11.3	1	2.70	17	0.332	7.62	2.277	0.73	0.2	18.5	25	0.9	13.4	4.6	0.3	<1	10	8.9	5.9
N256287	Drill Core	0.091	6.8	3	2.89	20	0.347	7.63	0.776	1.41	0.4	22.5	18	0.7	10.4	4.3	0.3	1	11	10.9	6.0
N256288	Rock Pulp	0.053	7.9	18	0.87	759	0.202	7.05	2.309	1.85	1.5	9.2	18	2.9	10.8	2.5	0.2	1	9	9.4	0.3
N253657	Drill Core	0.068	10.7	6	0.34	27	0.183	8.66	0.388	1.94	0.2	76.6	26	2.4	16.3	1.9	0.2	<1	15	2.9	3.7
N253658	Drill Core	0.080	11.3	8	0.36	20	0.199	7.89	0.215	1.79	0.2	64.3	28	4.0	14.2	2.6	0.2	<1	16	3.2	4.5



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N256259	Drill Core	9.9	0.6	0.08	<0.005	10	3.6	<0.5
N256261	Drill Core	7.4	0.6	<0.05	<0.005	7	1.7	<0.5
N256262	Drill Core	2.5	0.6	<0.05	<0.005	4	1.7	<0.5
N256263	Drill Core	3.2	0.5	0.09	<0.005	5	1.2	<0.5
N256264	Drill Core	6.0	0.8	0.06	<0.005	9	1.5	<0.5
N256265	Drill Core	5.3	1.1	0.07	<0.005	5	2.3	<0.5
N256266	Rock Pulp	35.1	0.7	0.15	0.370	3	3.2	<0.5
N256267	Drill Core	1.8	1.4	0.15	<0.005	5	3.9	<0.5
N256268	Drill Core	4.4	0.9	0.05	<0.005	12	1.6	<0.5
N256269	Drill Core	12.6	0.8	0.07	<0.005	11	1.1	<0.5
N256270	Drill Core	8.2	0.7	0.08	<0.005	7	1.6	<0.5
N256271	Drill Core	10.5	0.5	<0.05	<0.005	11	3.0	<0.5
N256272	Rock	0.5	<0.1	<0.05	<0.005	<1	4.6	<0.5
N256273	Drill Core	3.5	0.6	0.10	<0.005	9	3.9	<0.5
N256274	Drill Core	17.4	0.5	0.06	<0.005	14	1.4	<0.5
N256275	Drill Core	21.6	0.5	0.07	<0.005	18	1.6	<0.5
N256276	Drill Core	15.8	0.7	0.12	<0.005	12	1.2	<0.5
N256277	Drill Core	9.0	0.8	0.06	<0.005	15	2.0	<0.5
N256279	Drill Core	19.0	0.9	0.07	<0.005	11	1.5	<0.5
N256280	Drill Core	24.5	0.8	0.08	<0.005	12	1.6	<0.5
N256281	Drill Core	13.3	0.9	0.09	<0.005	17	2.5	<0.5
N256282	Drill Core	12.8	1.1	0.06	<0.005	5	2.8	<0.5
N256283	Rock	0.3	<0.1	<0.05	<0.005	<1	3.4	<0.5
N256284	Drill Core	7.6	1.5	0.07	<0.005	2	3.8	<0.5
N256285	Drill Core	8.9	1.3	0.08	<0.005	5	6.7	<0.5
N256286	Drill Core	14.5	0.6	0.08	<0.005	9	1.1	<0.5
N256287	Drill Core	22.8	0.8	<0.05	<0.005	9	1.2	<0.5
N256288	Rock Pulp	38.2	0.5	<0.05	0.409	<1	1.2	<0.5
N253657	Drill Core	58.0	2.1	0.05	0.006	14	0.5	2.0
N253658	Drill Core	46.8	1.9	0.06	<0.005	7	<0.5	1.7



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Method	Analyte	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253659	Drill Core	6.35	4	2.9	46.8	48.3	47	<0.1	7.6	21.6	265	7.08	11	1.1	2.7	48	0.6	1.1	1.2	175	0.47	
N253660	Rock	1.25	<2	0.1	1.5	0.4	2	<0.1	0.6	0.4	99	0.10	<1	0.2	<0.1	75	<0.1	<0.1	<0.1	1	33.10	
N253661	Drill Core	7.65	2	2.0	27.5	26.0	73	<0.1	6.0	16.4	225	5.34	9	1.2	2.6	55	0.2	0.9	0.8	150	0.47	
N253662	Drill Core	8.06	<2	0.8	28.4	25.8	93	<0.1	5.8	15.8	140	4.39	8	1.1	2.7	64	0.2	1.2	1.6	145	0.47	
N253663	Drill Core	7.27	<2	0.8	33.9	13.1	155	<0.1	5.9	14.5	51	4.84	6	1.1	2.4	49	0.9	0.3	1.4	131	0.47	
N253664	Drill Core	5.36	<2	1.1	25.9	13.8	168	<0.1	4.9	15.5	38	4.94	10	1.1	2.4	45	0.9	1.2	1.2	115	0.46	
N253665	Drill Core	8.71	3	1.1	15.3	22.1	50	<0.1	6.1	16.8	85	5.30	14	1.2	2.0	43	0.2	0.7	1.1	140	0.49	
N253666	Rock Pulp	0.06	623	344.1	4063.7	27.7	110	14.9	25.5	69.9	1514	4.81	2025	2.5	1.4	446	0.9	41.8	13.6	60	6.12	
N253667	Drill Core	8.35	2	1.6	25.7	13.1	45	<0.1	4.7	16.7	94	4.28	12	1.3	2.2	44	<0.1	0.9	1.0	123	0.38	
N253668	Drill Core	8.50	2	1.2	59.2	11.9	38	<0.1	5.0	14.1	98	4.77	9	1.0	2.1	36	0.1	1.0	0.7	124	0.41	
N253669	Drill Core	5.58	3	1.1	54.8	13.2	28	<0.1	9.0	26.5	108	5.48	17	0.6	1.1	37	0.2	1.0	1.5	160	0.49	
N253670	Drill Core	9.51	9	1.1	36.8	12.1	39	<0.1	7.7	27.1	162	6.15	16	0.6	0.9	30	0.2	0.6	1.9	141	0.41	
N253671	Drill Core	6.91	<2	1.6	46.4	12.1	56	<0.1	8.0	20.4	138	5.64	14	0.8	1.2	31	0.3	0.8	1.5	134	0.42	
N253672	Rock	1.27	<2	<0.1	0.3	0.4	2	<0.1	1.4	0.4	114	0.10	<1	<0.1	<0.1	79	<0.1	<0.1	<0.1	1	31.60	
N253673	Drill Core	7.30	2	1.6	33.2	9.7	41	<0.1	6.8	21.4	119	6.20	4	0.7	1.1	100	0.2	0.6	1.1	143	0.50	
N253674	Drill Core	7.29	2	2.3	44.4	10.3	65	<0.1	7.5	31.3	156	7.83	4	0.5	0.9	122	0.1	0.7	1.3	163	0.64	
N253675	Drill Core	7.66	2	5.1	64.8	21.3	98	<0.1	17.6	24.9	149	6.21	9	0.5	0.8	87	0.3	0.9	1.8	162	0.58	
N253676	Drill Core	8.19	<2	4.4	58.8	15.1	70	<0.1	13.1	22.6	100	5.27	16	0.6	1.0	61	0.1	1.0	1.5	166	0.52	
N253677	Drill Core	3.70	3	3.2	50.1	9.3	34	<0.1	4.8	15.2	101	4.97	15	1.3	3.3	137	0.1	0.8	1.6	103	3.03	
N253679	Drill Core	6.59	<2	3.8	31.1	17.7	26	<0.1	4.0	12.6	78	3.99	10	1.3	2.9	118	<0.1	0.9	1.0	102	0.63	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253659	Drill Core	0.073	13.8	6	0.55	28	0.184	8.61	0.239	1.71	0.3	60.3	34	5.7	14.0	1.4	0.1	<1	16	7.2	3.7	
N253660	Rock	0.006	2.0	<1	1.71	14	0.004	0.04	0.017	0.01	<0.1	1.0	<1	<0.1	1.9	0.1	<0.1	<1	<1	0.8	<0.1	
N253661	Drill Core	0.085	11.1	7	0.52	33	0.159	9.07	0.202	2.38	0.2	68.0	29	4.1	16.0	1.7	0.1	<1	18	2.7	2.7	
N253662	Drill Core	0.079	13.0	8	0.34	30	0.137	8.69	0.327	2.36	0.1	70.5	32	2.9	14.9	1.7	0.1	1	17	2.1	2.8	
N253663	Drill Core	0.070	8.3	6	0.27	20	0.092	8.44	0.313	2.29	<0.1	72.8	22	3.0	15.1	1.2	<0.1	1	17	3.5	5.2	
N253664	Drill Core	0.061	5.3	6	0.30	19	0.106	8.15	0.269	2.22	0.1	75.7	16	2.6	13.4	1.7	<0.1	<1	15	4.0	5.5	
N253665	Drill Core	0.094	5.9	6	1.13	21	0.172	8.58	0.155	1.82	0.1	80.5	17	2.2	12.7	1.8	0.1	<1	17	8.3	5.9	
N253666	Rock Pulp	0.063	15.4	31	0.78	321	0.146	6.06	1.743	1.74	4.2	20.9	23	3.2	8.6	1.8	<0.1	1	6	13.4	0.6	
N253667	Drill Core	0.072	5.7	6	1.19	22	0.135	7.55	0.110	2.21	0.3	110.7	17	2.7	11.6	2.1	0.2	<1	16	6.5	4.7	
N253668	Drill Core	0.074	7.5	5	1.13	23	0.151	7.66	0.160	2.19	0.2	76.9	19	3.2	11.3	2.0	0.1	1	15	4.5	5.2	
N253669	Drill Core	0.085	4.2	6	1.23	20	0.166	7.46	0.196	1.90	0.1	50.2	12	3.2	9.3	1.7	0.1	<1	17	6.1	6.3	
N253670	Drill Core	0.076	3.7	3	1.65	20	0.150	6.96	0.160	1.36	0.4	52.9	11	4.0	11.3	1.6	<0.1	<1	15	8.3	7.0	
N253671	Drill Core	0.091	3.9	5	1.62	20	0.121	7.03	0.154	1.47	0.4	65.7	11	3.8	12.5	1.5	0.1	1	16	8.0	6.4	
N253672	Rock	0.005	1.3	1	1.47	14	0.005	0.05	0.017	0.01	<0.1	1.3	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.8	<0.1	
N253673	Drill Core	0.091	5.8	6	0.88	17	0.099	7.82	0.357	1.63	0.3	58.8	18	1.8	14.5	1.3	<0.1	<1	13	6.3	7.1	
N253674	Drill Core	0.093	5.1	4	1.45	16	0.128	7.48	0.274	1.01	0.2	43.3	15	2.0	12.0	1.4	<0.1	<1	19	10.6	9.2	
N253675	Drill Core	0.065	3.3	11	1.97	21	0.121	7.84	0.182	0.84	0.2	42.0	9	2.7	10.4	1.0	<0.1	<1	21	13.0	7.0	
N253676	Drill Core	0.085	4.3	9	1.81	25	0.136	7.65	0.168	1.14	0.3	49.1	12	3.3	10.2	1.6	<0.1	<1	18	12.5	6.0	
N253677	Drill Core	0.077	13.2	4	1.21	15	0.130	7.79	0.196	1.62	0.2	73.4	28	4.9	11.6	2.1	0.1	<1	15	6.5	8.1	
N253679	Drill Core	0.100	10.7	4	0.50	18	0.120	7.15	0.124	1.25	0.4	83.4	23	2.6	11.8	1.7	0.1	<1	12	9.9	5.0	



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253659	Drill Core	51.2	1.8	0.09	0.008	12	<0.5	1.8
N253660	Rock	0.3	<0.1	<0.05	<0.005	<1	6.1	<0.5
N253661	Drill Core	67.9	1.8	0.12	0.010	8	0.9	2.2
N253662	Drill Core	66.1	2.0	0.16	<0.005	7	<0.5	2.1
N253663	Drill Core	64.1	2.1	0.31	<0.005	3	<0.5	2.2
N253664	Drill Core	61.9	2.3	0.22	<0.005	4	<0.5	2.0
N253665	Drill Core	53.1	2.4	0.06	0.008	16	2.1	1.4
N253666	Rock Pulp	36.1	0.7	0.14	0.376	4	2.7	<0.5
N253667	Drill Core	65.8	3.0	<0.05	0.007	17	1.3	1.5
N253668	Drill Core	66.7	2.0	0.08	<0.005	13	1.0	1.8
N253669	Drill Core	58.3	1.4	0.10	<0.005	16	1.0	1.8
N253670	Drill Core	29.9	1.5	0.08	<0.005	24	3.2	1.2
N253671	Drill Core	34.1	1.8	<0.05	<0.005	11	1.7	1.4
N253672	Rock	0.3	<0.1	<0.05	<0.005	<1	6.7	<0.5
N253673	Drill Core	58.0	1.6	0.06	<0.005	8	0.8	1.8
N253674	Drill Core	25.5	1.2	<0.05	<0.005	7	0.5	1.0
N253675	Drill Core	17.0	1.1	0.07	<0.005	15	1.0	1.0
N253676	Drill Core	21.4	1.4	0.15	0.010	18	0.9	1.1
N253677	Drill Core	53.4	1.9	0.09	0.012	11	0.9	1.1
N253679	Drill Core	32.4	2.2	0.07	0.053	11	0.8	0.8



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QUALITY CONTROL REPORT

VAN18003780.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N256242	Drill Core	6.85	<2	0.8	57.6	6.2	109	<0.1	20.7	26.7	1771	5.83	16	0.5	0.9	598	0.3	4.5	<0.1	219	5.77
REP N256242	QC			0.7	57.3	5.9	106	<0.1	20.5	26.3	1821	5.78	16	0.5	0.9	577	0.2	4.4	<0.1	216	5.82
N256252	Drill Core	7.18	<2	0.7	64.7	6.9	145	<0.1	11.1	21.9	1191	5.54	21	0.4	0.9	410	0.3	13.0	0.1	234	4.93
REP N256252	QC		<2																		
N256281	Drill Core	6.74	<2	0.7	40.9	2.6	46	<0.1	2.0	16.4	1275	5.04	21	0.9	1.8	445	<0.1	1.5	<0.1	135	3.57
REP N256281	QC			1.0	40.3	2.5	41	<0.1	2.3	16.0	1286	4.91	20	0.8	1.7	432	<0.1	1.4	<0.1	133	3.46
N253658	Drill Core	6.33	2	1.8	45.9	40.5	27	<0.1	7.1	17.9	184	7.18	6	1.2	2.5	50	0.1	1.2	1.2	144	0.48
REP N253658	QC		3																		
Core Reject Duplicates																					
N256236	Drill Core	6.31	<2	0.9	43.9	5.8	78	<0.1	12.8	19.7	1799	5.19	13	0.4	0.7	615	<0.1	3.5	0.1	194	4.78
DUP N256236	QC		<2	0.9	41.0	5.6	77	<0.1	12.1	19.9	1761	5.23	12	0.4	0.7	596	<0.1	3.2	0.2	196	4.89
N253675	Drill Core	7.66	2	5.1	64.8	21.3	98	<0.1	17.6	24.9	149	6.21	9	0.5	0.8	87	0.3	0.9	1.8	162	0.58
DUP N253675	QC		2	5.1	62.0	20.7	96	<0.1	17.0	24.7	147	6.25	8	0.5	0.8	84	0.3	0.8	1.8	170	0.57
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	36.3	25.5	53	<0.1	46.8	7.5	521	6.99	11	2.9	15.5	48	0.1	0.6	0.4	168	0.27
STD OREAS25A-4A	Standard			2.4	38.9	26.4	50	<0.1	45.8	7.9	464	6.40	10	3.2	17.5	51	<0.1	0.7	0.4	155	0.32
STD OREAS25A-4A	Standard			2.6	36.5	26.1	41	<0.1	44.4	7.4	497	6.65	9	3.0	16.5	47	<0.1	0.7	0.3	169	0.30
STD OREAS25A-4A	Standard			2.3	31.7	24.7	44	<0.1	42.9	7.7	487	6.49	11	2.8	15.3	46	<0.1	0.6	0.3	157	0.29
STD OREAS45E	Standard			2.5	814.6	19.8	51	0.3	515.0	60.9	622	25.31	19	2.7	13.9	18	<0.1	1.0	0.4	356	0.07
STD OREAS45E	Standard			2.1	831.4	19.4	51	0.3	505.0	62.2	576	25.44	17	2.7	14.2	18	<0.1	1.0	0.3	347	0.07
STD OREAS45E	Standard			2.6	819.2	20.6	50	0.3	485.6	61.9	579	25.31	18	2.8	14.5	18	<0.1	1.2	0.3	335	0.07
STD OREAS45E	Standard			2.4	786.6	18.6	44	0.3	484.2	56.9	557	23.14	17	2.5	13.1	17	<0.1	1.0	0.3	345	0.07
STD OXC145	Standard		211																		
STD OXC145	Standard		215																		
STD OXC145	Standard		224																		
STD OXH139	Standard		1301																		
STD OXH139	Standard		1323																		
STD OXH139	Standard		1352																		



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N256242	Drill Core	0.075	9.5	22	2.87	119	0.476	9.18	2.202	0.46	0.2	30.2	22	0.9	17.3	3.4	0.2	1	22	4.6	4.6
REP N256242	QC	0.076	9.7	22	2.87	123	0.474	9.26	2.245	0.44	0.2	30.1	21	0.9	16.8	3.4	0.2	<1	21	4.6	4.7
N256252	Drill Core	0.059	8.3	12	2.66	33	0.448	8.99	1.582	0.80	0.3	14.0	19	1.0	13.2	3.0	0.2	<1	22	6.5	7.0
REP N256252	QC																				
N256281	Drill Core	0.095	11.6	2	1.82	28	0.343	7.89	1.943	0.76	0.3	34.6	25	1.3	13.9	4.7	0.3	<1	11	4.9	5.2
REP N256281	QC	0.095	11.2	2	1.81	29	0.334	7.68	1.928	0.77	0.2	33.0	24	1.6	12.9	4.5	0.3	<1	11	4.6	5.0
N253658	Drill Core	0.080	11.3	8	0.36	20	0.199	7.89	0.215	1.79	0.2	64.3	28	4.0	14.2	2.6	0.2	<1	16	3.2	4.5
REP N253658	QC																				
Core Reject Duplicates																					
N256236	Drill Core	0.080	11.0	10	3.11	48	0.434	9.06	2.424	0.48	0.3	21.5	24	1.0	15.7	3.6	0.2	<1	18	4.1	6.3
DUP N256236	QC	0.075	10.6	9	3.09	41	0.427	9.06	2.430	0.48	0.2	20.0	23	1.0	14.5	3.4	0.2	<1	18	4.2	6.3
N253675	Drill Core	0.065	3.3	11	1.97	21	0.121	7.84	0.182	0.84	0.2	42.0	9	2.7	10.4	1.0	<0.1	<1	21	13.0	7.0
DUP N253675	QC	0.062	3.2	12	1.97	18	0.114	7.65	0.176	0.79	0.2	39.7	9	2.4	10.0	0.9	<0.1	1	18	12.4	7.2
Reference Materials																					
STD OREAS25A-4A	Standard	0.049	20.0	118	0.33	153	1.048	9.17	0.123	0.51	2.1	162.1	46	4.2	10.0	21.7	1.6	<1	12	40.3	<0.1
STD OREAS25A-4A	Standard	0.052	26.2	108	0.33	142	0.912	9.37	0.133	0.46	1.9	139.5	53	4.1	11.2	18.6	1.4	1	14	36.4	<0.1
STD OREAS25A-4A	Standard	0.046	23.4	105	0.29	149	0.931	9.38	0.138	0.48	2.0	147.5	50	4.0	9.7	18.7	1.5	<1	13	40.2	<0.1
STD OREAS25A-4A	Standard	0.045	20.7	103	0.29	153	0.949	8.93	0.118	0.46	1.8	147.1	47	3.8	9.7	19.4	1.4	<1	12	37.6	<0.1
STD OREAS45E	Standard	0.037	9.5	1089	0.17	276	0.584	7.27	0.060	0.37	1.0	105.2	22	1.1	7.8	6.7	0.6	<1	96	7.3	<0.1
STD OREAS45E	Standard	0.037	12.8	981	0.16	254	0.564	7.29	0.059	0.34	1.0	94.2	26	1.5	8.6	6.1	0.5	<1	97	6.6	<0.1
STD OREAS45E	Standard	0.038	12.1	1065	0.15	279	0.553	7.39	0.051	0.35	1.3	103.4	27	1.4	8.5	6.8	0.6	<1	99	7.0	<0.1
STD OREAS45E	Standard	0.030	11.2	963	0.14	264	0.536	6.90	0.048	0.33	0.9	99.5	25	1.4	8.3	6.6	0.5	<1	88	6.9	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 24, 2019

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QUALITY CONTROL REPORT

VAN18003780.1

Method Analyte		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N256242	Drill Core	7.2	1.2	<0.05	<0.005	4	12.4	<0.5
REP N256242	QC	7.0	1.2	0.08	<0.005	5	12.6	<0.5
N256252	Drill Core	15.7	0.6	0.08	<0.005	13	19.8	<0.5
REP N256252	QC							
N256281	Drill Core	13.3	0.9	0.09	<0.005	17	2.5	<0.5
REP N256281	QC	11.9	0.9	0.11	<0.005	16	2.6	<0.5
N253658	Drill Core	46.8	1.9	0.06	<0.005	7	<0.5	1.7
REP N253658	QC							
Core Reject Duplicates								
N256236	Drill Core	11.3	0.8	<0.05	<0.005	10	4.2	<0.5
DUP N256236	QC	10.9	0.8	<0.05	<0.005	10	4.0	<0.5
N253675	Drill Core	17.0	1.1	0.07	<0.005	15	1.0	1.0
DUP N253675	QC	12.1	1.0	0.09	<0.005	14	1.0	0.9
Reference Materials								
STD OREAS25A-4A	Standard	59.6	4.1	0.10	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	61.2	4.0	<0.05	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.7	4.3	0.09	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.0	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.4	2.9	0.14	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.6	2.8	0.14	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.8	3.3	0.14	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	23.5	2.9	0.14	<0.005	2	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							



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QUALITY CONTROL REPORT

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	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXC145 Expected		212																		
STD OXH139 Expected		1312																		
STD OREAS25A-4A Expected			2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK Blank			<0.1	0.5	0.2	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK Blank		<2																		
BLK Blank		<2																		
BLK Blank		<2																		
BLK Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																				
ROCK-VAN Prep Blank		<2	0.8	3.9	3.9	40	<0.1	1.0	4.4	690	2.20	1	1.1	2.7	222	<0.1	<0.1	<0.1	36	1.61
ROCK-VAN Prep Blank		<2	1.2	4.1	3.3	37	<0.1	0.7	4.3	665	2.16	1	1.1	2.7	226	<0.1	<0.1	<0.1	35	1.57



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.042	11.4	3	0.49	764	0.211	6.76	3.471	1.69	0.3	53.2	23	0.9	15.0	5.8	0.4	<1	7	3.6	<0.1
ROCK-VAN	Prep Blank	0.044	11.3	3	0.50	793	0.210	6.72	3.447	1.72	0.3	54.3	23	0.8	15.5	5.6	0.4	1	7	3.1	<0.1



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QUALITY CONTROL REPORT

VAN18003780.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	37.1	1.6	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	36.7	1.7	<0.05	<0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 27, 2018

Report Date: January 29, 2019

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CERTIFICATE OF ANALYSIS

VAN18003781.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 140

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	131	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	9	Sort, label and box pulps			VAN
FA350-Au	140	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	140	Environmental disposal charge-Fire assay lead waste			VAN
MA200	140	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	140	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Report Date: January 29, 2019

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CERTIFICATE OF ANALYSIS

VAN18003781.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253680	Drill Core	5.09	<2	4.9	36.2	16.2	12	<0.1	2.4	4.5	39	1.88	<1	1.2	3.6	86	<0.1	0.3	0.3	62	0.33
N253681	Drill Core	6.82	<2	4.1	25.9	14.9	77	<0.1	2.5	7.1	132	2.70	2	1.4	2.9	49	0.3	1.8	0.7	79	0.33
N253682	Drill Core	8.27	2	3.6	19.5	19.7	145	<0.1	2.9	7.7	434	3.34	<1	1.1	2.5	51	0.5	1.3	0.8	69	0.35
N253683	Drill Core	7.89	3	0.8	11.7	18.0	106	<0.1	1.6	9.3	829	4.20	<1	1.4	2.3	60	0.3	0.8	1.0	73	0.38
N253684	Rock Pulp	0.06	199	387.2	1888.9	26.5	57	12.8	14.5	9.6	709	3.63	12	1.2	2.0	399	0.5	33.4	2.1	82	2.70
N253685	Drill Core	7.86	4	1.3	12.6	19.0	107	<0.1	1.8	12.2	808	4.30	<1	1.4	2.2	66	0.2	0.8	0.8	74	0.37
N253686	Drill Core	8.15	2	2.3	14.1	17.6	95	<0.1	1.4	8.3	892	3.80	<1	1.5	2.3	77	0.2	1.3	1.3	75	0.43
N253687	Drill Core	6.94	<2	3.3	15.8	18.9	114	<0.1	1.5	8.4	1139	3.64	6	1.5	2.4	80	0.3	0.7	0.9	73	0.43
N253688	Drill Core	3.75	2	0.7	15.2	16.8	104	<0.1	1.8	8.1	780	3.51	<1	1.6	2.9	59	0.4	1.3	0.8	62	0.34
N253689	Drill Core	7.59	4	0.8	17.7	20.1	125	0.4	2.0	9.1	883	4.13	<1	1.5	2.3	58	0.4	0.7	1.0	70	0.40
N253691	Drill Core	8.13	2	0.5	11.4	14.9	125	<0.1	2.2	7.9	795	4.01	<1	1.5	2.3	42	0.3	0.7	0.8	61	0.32
N253692	Drill Core	6.88	3	1.5	21.9	16.1	63	<0.1	3.9	13.7	145	5.00	<1	1.7	2.6	38	0.3	0.5	0.9	71	0.30
N253693	Drill Core	7.27	3	1.0	29.5	13.5	37	<0.1	6.8	16.6	134	3.27	<1	1.6	3.4	59	<0.1	0.5	0.6	105	0.35
N253694	Drill Core	7.08	3	2.3	26.3	15.1	42	<0.1	8.8	17.3	132	3.46	<1	1.2	2.8	62	0.3	0.7	0.7	99	0.33
N253695	Drill Core	7.44	3	2.7	27.8	16.9	72	<0.1	10.2	21.2	182	5.63	<1	0.6	1.2	62	0.4	0.6	1.3	189	0.28
N253696	Rock	1.06	<2	<0.1	1.2	0.4	3	<0.1	<0.1	<0.2	123	0.10	2	<0.1	<0.1	82	<0.1	<0.1	<0.1	2	35.51
N253697	Drill Core	7.79	4	1.9	32.0	16.9	76	<0.1	6.7	21.2	146	4.69	<1	0.9	1.7	60	0.5	1.1	1.6	152	0.33
N253698	Drill Core	7.16	<2	1.9	26.6	18.1	52	<0.1	4.9	12.8	141	2.83	<1	1.4	2.9	50	0.3	0.5	0.8	93	0.36
N253699	Drill Core	6.75	<2	1.6	16.8	17.8	26	<0.1	1.5	5.3	104	1.19	<1	0.9	2.3	41	<0.1	0.5	0.5	46	0.26
N253700	Drill Core	7.38	2	2.0	30.4	13.5	28	<0.1	2.4	10.5	116	3.19	<1	1.7	3.9	52	<0.1	0.4	0.5	87	0.35
N253701	Drill Core	7.44	2	2.1	22.4	28.5	32	<0.1	2.7	16.5	124	4.49	1	1.5	3.3	60	<0.1	0.5	0.7	92	0.32
N253702	Drill Core	3.06	<2	3.3	23.4	21.6	102	<0.1	2.7	8.8	183	2.72	<1	1.0	2.4	54	0.7	0.5	0.5	134	0.28
N253704	Drill Core	7.84	<2	2.0	24.3	16.8	68	<0.1	4.6	11.0	179	3.28	<1	1.1	2.4	50	0.3	0.7	0.6	109	0.29
N253705	Drill Core	8.43	<2	2.0	23.8	14.8	82	<0.1	4.7	14.6	309	3.34	<1	1.2	2.5	49	0.2	0.6	0.6	98	0.31
N253706	Drill Core	8.40	<2	3.4	26.1	11.7	75	<0.1	4.4	15.4	323	3.88	<1	1.3	3.3	69	0.1	1.8	0.5	108	0.37
N253707	Drill Core	7.26	<2	0.9	32.1	12.3	97	<0.1	4.4	12.2	509	3.70	1	1.2	3.3	90	0.3	1.0	0.4	115	0.33
N253708	Rock Pulp	0.06	626	330.6	3816.4	26.7	105	14.6	25.6	69.6	1476	4.67	1770	2.3	1.4	430	0.7	44.5	14.6	57	5.72
N253709	Drill Core	7.33	2	1.8	32.0	11.6	58	<0.1	6.1	16.4	457	4.13	10	1.3	3.2	141	0.3	1.5	0.6	163	0.45
N253710	Drill Core	8.09	2	1.3	44.8	12.0	59	<0.1	11.9	16.2	568	4.90	5	1.0	3.0	179	0.2	1.6	0.6	177	0.55
N253711	Drill Core	7.10	2	6.1	132.6	12.9	72	<0.1	30.5	33.4	2062	7.27	4	0.8	1.4	184	0.1	10.0	0.7	264	0.77



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253680	Drill Core	0.084	11.2	5	0.08	55	0.135	7.57	0.073	1.52	0.5	83.1	26	1.6	7.8	2.4	0.2	<1	8	3.7	2.0
N253681	Drill Core	0.095	7.0	4	0.69	38	0.119	8.83	0.243	2.89	0.4	80.7	18	1.9	8.6	2.0	0.2	<1	11	5.2	2.9
N253682	Drill Core	0.081	8.1	4	1.00	25	0.137	7.16	0.370	2.14	0.4	78.6	20	1.7	9.6	2.3	0.2	1	8	5.7	3.5
N253683	Drill Core	0.100	7.0	2	2.26	39	0.145	8.00	0.325	1.63	0.5	96.0	19	0.8	10.8	2.5	0.2	<1	9	11.1	4.6
N253684	Rock Pulp	0.051	8.2	18	0.86	714	0.196	7.08	2.188	1.77	1.6	9.5	19	3.0	11.2	2.5	0.2	1	10	8.1	0.3
N253685	Drill Core	0.104	6.2	2	2.02	24	0.122	8.36	0.440	2.00	0.2	94.7	17	0.8	11.8	2.2	0.2	1	9	8.9	4.5
N253686	Drill Core	0.090	6.1	2	2.23	31	0.132	8.33	0.349	1.57	0.2	90.8	16	0.8	11.1	2.6	0.2	2	11	14.5	4.0
N253687	Drill Core	0.099	6.6	2	2.30	37	0.136	8.17	0.418	1.55	0.3	92.2	17	0.8	11.5	2.4	0.2	2	10	15.7	3.8
N253688	Drill Core	0.107	9.1	1	1.86	22	0.111	8.71	0.979	1.75	1.6	103.0	25	0.5	12.8	1.9	0.1	<1	9	15.1	3.8
N253689	Drill Core	0.109	6.6	2	2.00	22	0.108	7.84	0.506	1.76	2.8	100.5	18	0.8	10.9	1.8	0.1	1	9	15.5	4.3
N253691	Drill Core	0.101	6.0	2	1.86	19	0.100	7.95	0.504	1.95	0.3	91.3	17	0.7	9.9	1.5	0.1	2	8	9.9	4.2
N253692	Drill Core	0.108	8.3	2	0.51	14	0.095	8.22	0.405	2.81	0.3	81.0	23	1.8	13.8	1.3	0.1	<1	12	4.6	5.5
N253693	Drill Core	0.118	13.1	2	0.50	23	0.105	8.94	0.414	2.92	0.3	76.2	30	1.2	9.4	1.6	0.1	<1	13	6.3	3.5
N253694	Drill Core	0.093	10.1	5	0.62	22	0.098	8.86	0.386	2.77	0.3	61.6	25	1.3	7.4	1.4	0.1	<1	10	6.1	3.6
N253695	Drill Core	0.077	6.1	5	1.43	14	0.122	9.03	0.425	1.65	0.2	32.3	18	0.9	12.0	1.2	<0.1	2	19	6.9	5.9
N253696	Rock	0.006	1.3	<1	1.51	20	0.005	0.10	0.019	0.03	<0.1	1.3	1	<0.1	2.7	0.2	<0.1	<1	<1	0.9	<0.1
N253697	Drill Core	0.094	5.3	4	1.06	18	0.113	9.36	0.380	2.45	0.2	42.6	15	1.1	11.0	1.2	<0.1	1	15	9.7	5.0
N253698	Drill Core	0.111	9.6	6	0.66	35	0.143	9.01	0.473	2.76	0.4	64.3	24	1.6	10.6	1.8	0.1	<1	10	5.0	3.0
N253699	Drill Core	0.067	6.8	4	0.40	64	0.144	5.66	0.238	1.64	0.8	53.0	15	1.8	6.2	2.1	0.2	<1	4	4.7	1.1
N253700	Drill Core	0.106	11.8	3	0.53	29	0.114	8.66	0.400	2.73	3.6	84.2	29	1.2	12.1	1.8	0.1	1	10	11.1	3.5
N253701	Drill Core	0.097	10.8	3	0.63	19	0.112	8.76	0.442	2.63	0.2	63.5	28	1.1	16.3	1.7	0.1	<1	10	15.5	4.9
N253702	Drill Core	0.084	5.9	6	0.89	30	0.151	8.78	0.490	2.42	0.4	49.4	16	2.0	6.7	2.1	0.2	<1	7	10.7	2.9
N253704	Drill Core	0.092	6.3	5	0.79	23	0.137	8.79	0.549	2.45	0.3	57.2	17	1.4	8.9	1.9	0.1	<1	8	9.0	3.6
N253705	Drill Core	0.084	6.7	4	1.45	28	0.109	8.55	0.433	1.76	0.2	65.1	18	0.9	14.2	1.5	0.1	<1	11	11.5	3.7
N253706	Drill Core	0.088	10.2	4	1.09	22	0.131	9.13	0.553	2.24	0.3	61.4	27	1.2	14.4	1.9	0.1	1	12	10.8	4.2
N253707	Drill Core	0.089	11.8	3	1.19	24	0.112	9.10	0.626	2.29	0.3	53.2	31	0.9	14.6	1.8	0.1	<1	12	10.8	3.9
N253708	Rock Pulp	0.064	14.6	34	0.75	375	0.145	5.92	1.657	1.69	4.2	19.0	23	3.0	8.8	1.7	<0.1	<1	6	11.7	0.6
N253709	Drill Core	0.094	11.6	6	0.70	23	0.142	9.07	0.696	2.22	0.4	62.9	29	1.0	10.7	2.1	0.2	1	10	9.3	4.5
N253710	Drill Core	0.094	10.2	16	0.84	20	0.125	9.49	0.835	1.98	0.2	50.6	26	0.9	9.3	1.4	0.1	<1	16	9.5	5.2
N253711	Drill Core	0.121	10.5	35	2.02	17	0.124	9.22	0.646	1.27	0.2	36.6	23	0.8	11.3	0.8	<0.1	1	33	15.3	7.2



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253680	Drill Core	38.3	2.2	0.07	0.009	12	<0.5	0.8
N253681	Drill Core	68.9	2.1	0.10	0.016	12	0.7	2.1
N253682	Drill Core	53.2	2.0	0.12	0.017	17	<0.5	1.6
N253683	Drill Core	21.1	2.6	0.07	<0.005	13	1.0	1.3
N253684	Rock Pulp	33.5	0.7	0.06	0.368	<1	1.5	<0.5
N253685	Drill Core	27.4	2.6	<0.05	0.011	15	0.8	1.5
N253686	Drill Core	20.1	2.6	<0.05	<0.005	15	0.6	1.2
N253687	Drill Core	21.6	2.6	<0.05	0.007	14	0.6	1.2
N253688	Drill Core	40.0	2.7	<0.05	0.006	15	<0.5	1.4
N253689	Drill Core	30.1	2.5	0.08	<0.005	18	0.7	1.5
N253691	Drill Core	35.0	2.3	0.05	<0.005	14	<0.5	1.7
N253692	Drill Core	64.4	2.2	0.07	<0.005	26	<0.5	2.2
N253693	Drill Core	66.7	2.0	0.07	<0.005	16	0.6	2.1
N253694	Drill Core	65.7	1.8	<0.05	0.013	18	<0.5	2.0
N253695	Drill Core	35.2	0.9	0.14	<0.005	26	0.7	1.3
N253696	Rock	1.2	<0.1	<0.05	<0.005	<1	4.2	<0.5
N253697	Drill Core	58.8	1.2	<0.05	0.007	24	0.6	1.8
N253698	Drill Core	62.3	1.7	0.08	0.009	17	0.5	2.0
N253699	Drill Core	37.1	1.4	<0.05	0.012	6	<0.5	1.1
N253700	Drill Core	65.5	2.4	0.06	0.006	15	<0.5	2.3
N253701	Drill Core	62.1	1.9	<0.05	<0.005	22	<0.5	2.1
N253702	Drill Core	51.1	1.3	<0.05	0.006	15	0.7	1.9
N253704	Drill Core	56.8	1.5	0.09	<0.005	20	0.7	1.8
N253705	Drill Core	37.6	1.6	0.10	0.005	18	0.9	1.3
N253706	Drill Core	57.5	1.8	0.09	<0.005	14	0.7	1.7
N253707	Drill Core	57.1	1.5	0.07	<0.005	14	0.8	1.6
N253708	Rock Pulp	33.6	0.6	0.14	0.371	4	2.9	<0.5
N253709	Drill Core	55.3	1.7	0.05	<0.005	15	0.7	1.6
N253710	Drill Core	48.3	1.4	0.10	<0.005	18	2.0	1.5
N253711	Drill Core	28.2	1.2	<0.05	<0.005	24	3.1	0.9



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253712	Drill Core	3.49	3	2.9	138.6	8.5	60	<0.1	17.7	18.4	1499	7.07	3	1.0	1.5	151	0.1	9.9	0.7	189	0.63
N253714	Drill Core	6.52	3	3.6	81.0	7.8	72	<0.1	10.2	22.5	1471	5.76	2	0.9	1.3	80	0.1	3.2	0.4	220	0.44
N253715	Drill Core	6.48	3	4.8	47.4	7.2	58	<0.1	8.4	21.9	858	5.77	<1	0.8	1.4	71	<0.1	0.8	0.5	209	0.40
N253716	Drill Core	6.86	2	3.4	72.3	10.2	62	<0.1	8.8	20.2	590	5.57	2	0.9	1.8	75	<0.1	2.7	0.5	161	0.39
N253717	Drill Core	8.13	<2	1.2	46.6	10.4	64	<0.1	6.7	14.5	724	5.14	3	0.9	1.9	78	<0.1	2.3	0.4	155	0.46
N253718	Rock	0.94	<2	<0.1	1.0	0.7	2	<0.1	<0.1	<0.2	129	0.11	<1	0.2	0.2	78	<0.1	<0.1	<0.1	1	35.14
N253719	Drill Core	8.29	<2	1.9	49.6	8.8	82	<0.1	7.8	18.0	1760	5.65	5	0.8	2.0	122	<0.1	5.6	0.7	142	0.52
N253720	Drill Core	6.02	2	1.3	42.3	8.7	95	<0.1	6.4	18.1	3426	5.10	3	0.9	2.5	157	<0.1	2.3	0.5	148	1.62
N253721	Drill Core	7.46	<2	1.8	67.2	11.4	168	<0.1	8.1	17.2	4895	5.47	3	0.9	2.4	148	0.3	0.7	0.8	161	1.00
N253722	Drill Core	7.98	<2	3.5	93.0	10.2	87	<0.1	9.2	21.8	1746	6.01	2	0.8	2.1	119	<0.1	1.2	0.4	149	0.56
N253723	Drill Core	7.44	<2	7.8	141.9	11.4	73	<0.1	14.7	22.9	1142	5.02	4	0.8	2.1	101	0.3	1.8	0.4	148	0.47
N253724	Rock Pulp	0.06	195	402.4	1881.0	24.8	54	13.8	16.2	9.8	741	3.59	11	0.9	2.0	437	0.5	32.8	1.9	87	2.68
N253725	Drill Core	7.72	<2	3.9	39.2	10.3	85	<0.1	13.1	20.4	1548	4.59	3	0.5	1.3	145	0.1	0.4	0.3	157	0.67
N253726	Drill Core	6.12	<2	6.7	73.8	15.6	97	<0.1	20.8	27.0	1094	5.29	<1	0.7	1.5	93	0.4	1.1	1.0	196	0.47
N253727	Drill Core	8.68	3	14.3	70.3	13.1	109	<0.1	19.0	31.0	1163	6.95	1	0.9	1.8	67	<0.1	1.1	1.0	185	0.41
N253728	Drill Core	6.98	2	1.2	33.4	8.8	87	<0.1	14.6	20.1	1291	5.23	1	0.5	1.3	125	0.3	0.3	0.5	156	0.55
N253729	Drill Core	7.43	3	1.6	28.2	13.1	85	<0.1	18.2	20.9	1116	5.08	<1	0.4	1.2	99	0.2	0.2	0.3	131	0.50
N253730	Drill Core	4.06	7	7.1	37.2	11.9	96	0.8	15.1	34.5	2084	7.53	<1	0.5	1.0	174	<0.1	0.5	0.7	267	1.68
N253732	Drill Core	8.78	4	1.0	51.6	5.8	95	<0.1	12.8	27.9	3665	6.57	1	0.4	1.0	625	0.1	0.4	0.3	261	3.63
N253733	Drill Core	8.10	6	0.7	39.5	6.2	109	<0.1	13.2	24.1	4049	6.44	4	0.5	1.2	620	<0.1	0.4	0.3	274	3.82
N253734	Drill Core	7.38	5	0.8	70.4	6.1	93	<0.1	13.9	26.7	3185	6.51	3	0.5	1.3	610	<0.1	0.6	0.4	265	4.02
N253735	Drill Core	7.94	3	0.6	64.8	5.5	83	<0.1	13.9	24.8	3206	6.67	4	0.5	1.5	620	<0.1	0.5	0.4	276	4.39
N253736	Rock Pulp	0.06	646	358.6	4079.0	27.6	106	15.8	28.7	69.9	1469	5.00	1817	2.3	1.4	461	1.1	40.3	14.7	65	5.97
N253737	Drill Core	7.48	4	1.0	82.8	8.3	92	<0.1	8.7	21.6	2838	5.93	2	0.5	1.2	540	0.1	0.5	0.5	252	3.09
N253738	Drill Core	8.38	4	1.0	65.8	8.6	105	<0.1	7.3	23.4	3148	5.94	2	0.4	1.1	652	<0.1	0.2	0.4	240	3.34
N253739	Drill Core	7.86	3	1.6	52.9	6.5	58	<0.1	7.1	22.8	1671	6.29	<1	0.4	1.2	458	<0.1	0.1	0.9	212	2.20
N253740	Drill Core	8.81	<2	1.2	44.3	7.0	31	<0.1	7.7	22.3	709	5.27	1	0.4	0.9	255	<0.1	0.3	0.6	187	0.74
N253741	Rock	0.89	<2	<0.1	1.6	0.4	2	<0.1	<0.1	0.5	142	0.14	<1	0.2	<0.1	85	0.1	<0.1	<0.1	2	34.86
N253742	Drill Core	7.94	<2	0.8	26.0	5.5	34	<0.1	10.8	26.9	651	5.99	<1	0.5	1.1	86	0.1	0.4	0.4	207	0.52
N253743	Drill Core	7.50	3	0.2	31.7	4.7	25	<0.1	11.8	21.8	464	6.60	<1	0.5	1.0	83	<0.1	0.3	1.2	172	0.45



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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253712	Drill Core	0.098	5.1	19	2.39	17	0.088	8.83	0.577	1.12	0.1	50.1	14	0.6	9.1	0.7	<0.1	<1	22	18.0	7.4
N253714	Drill Core	0.111	4.2	4	2.81	37	0.129	8.80	0.428	1.56	0.1	51.1	12	0.8	7.8	1.0	<0.1	<1	17	17.2	5.5
N253715	Drill Core	0.118	4.2	3	2.09	20	0.104	8.91	0.484	1.65	0.1	37.5	12	0.6	8.1	0.9	<0.1	<1	18	13.1	6.0
N253716	Drill Core	0.115	5.9	3	1.85	30	0.121	9.40	0.528	1.94	0.2	58.0	16	1.1	11.0	1.1	<0.1	<1	17	12.5	5.9
N253717	Drill Core	0.106	5.5	4	1.91	18	0.126	10.94	0.700	2.43	0.2	46.1	16	1.2	10.3	1.3	<0.1	1	15	13.5	5.4
N253718	Rock	0.007	1.1	<1	1.91	32	0.005	0.21	0.058	0.08	<0.1	2.6	1	<0.1	2.4	0.4	<0.1	<1	<1	0.8	<0.1
N253719	Drill Core	0.085	9.1	3	2.15	20	0.096	8.34	0.727	1.12	<0.1	57.5	22	0.2	10.3	1.2	<0.1	<1	16	15.5	6.2
N253720	Drill Core	0.082	12.8	3	2.13	24	0.209	8.29	0.727	1.44	0.2	61.9	28	0.8	14.7	2.4	0.2	1	16	12.8	4.6
N253721	Drill Core	0.093	11.4	3	2.29	22	0.221	8.35	0.927	1.15	0.3	61.2	26	0.8	15.7	2.6	0.2	1	17	16.1	5.2
N253722	Drill Core	0.109	7.4	2	2.72	21	0.128	8.53	0.936	1.11	0.2	53.5	20	1.0	14.7	1.4	<0.1	1	16	15.6	6.1
N253723	Drill Core	0.108	7.8	3	1.92	19	0.090	8.86	1.214	1.78	<0.1	38.7	20	0.7	13.1	1.1	<0.1	<1	16	11.4	5.3
N253724	Rock Pulp	0.054	8.3	19	0.85	716	0.187	7.27	2.284	1.78	1.4	9.2	19	2.6	11.3	2.5	0.1	1	10	8.2	0.3
N253725	Drill Core	0.085	7.3	5	2.40	22	0.112	8.59	1.609	1.34	0.1	31.9	19	0.8	10.3	1.1	<0.1	2	16	17.1	4.5
N253726	Drill Core	0.098	6.4	7	2.00	26	0.159	9.40	0.762	2.50	0.3	37.5	18	0.9	10.1	1.8	0.1	1	14	13.3	5.5
N253727	Drill Core	0.092	7.6	4	2.02	15	0.117	8.10	0.665	1.66	0.2	44.3	21	1.0	11.2	1.2	<0.1	<1	14	11.9	7.5
N253728	Drill Core	0.079	5.6	5	2.56	20	0.110	8.60	1.247	1.12	0.1	31.0	14	0.8	9.8	1.1	<0.1	<1	18	19.6	5.1
N253729	Drill Core	0.081	7.1	8	2.35	18	0.083	8.44	1.485	1.56	0.1	29.7	19	0.6	10.1	0.8	<0.1	2	18	22.9	5.5
N253730	Drill Core	0.079	6.4	7	2.37	20	0.418	9.61	0.709	3.00	0.7	28.4	17	1.1	17.2	2.4	0.2	2	25	17.2	7.3
N253732	Drill Core	0.068	7.7	11	2.29	269	0.415	8.99	2.301	0.37	0.1	29.6	18	0.8	15.2	2.5	0.2	<1	23	13.3	2.9
N253733	Drill Core	0.072	8.7	10	2.50	267	0.456	9.41	2.214	0.33	0.2	33.1	19	0.5	16.6	2.7	0.1	<1	25	9.8	2.6
N253734	Drill Core	0.072	9.1	12	2.67	247	0.409	9.47	2.361	0.30	0.1	33.6	21	1.4	17.9	2.7	0.2	<1	26	9.1	3.1
N253735	Drill Core	0.069	10.1	13	2.62	349	0.454	9.74	2.404	0.30	0.1	36.0	22	0.7	17.9	2.9	0.2	1	26	11.3	2.5
N253736	Rock Pulp	0.067	15.1	37	0.79	706	0.142	6.34	1.797	1.69	4.6	21.7	23	2.9	8.7	1.6	0.1	1	6	11.9	0.7
N253737	Drill Core	0.076	7.5	6	2.33	139	0.423	9.07	2.795	0.54	0.2	37.6	18	0.5	16.6	2.9	0.2	<1	21	13.4	3.4
N253738	Drill Core	0.074	6.7	5	2.18	174	0.438	8.93	2.661	0.33	0.2	35.9	17	0.7	14.0	2.9	0.2	1	20	11.2	3.3
N253739	Drill Core	0.074	9.2	4	2.21	19	0.219	9.35	2.454	0.73	0.1	28.2	21	0.8	12.2	1.4	<0.1	<1	23	13.0	6.3
N253740	Drill Core	0.074	5.5	4	2.33	19	0.114	8.44	1.550	1.02	<0.1	29.6	15	1.2	11.2	0.7	<0.1	1	18	16.8	6.1
N253741	Rock	0.007	1.5	<1	2.01	26	0.007	0.18	0.035	0.05	<0.1	2.5	1	<0.1	2.5	0.3	<0.1	<1	<1	1.2	<0.1
N253742	Drill Core	0.087	7.1	7	2.39	17	0.107	8.95	0.775	1.36	<0.1	29.3	18	1.2	13.0	0.7	<0.1	<1	21	19.6	6.7
N253743	Drill Core	0.069	5.5	6	1.79	14	0.113	7.86	0.848	0.95	0.1	17.8	15	0.9	8.9	1.0	<0.1	<1	17	11.9	7.7



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253712	Drill Core	13.0	1.4	0.07	<0.005	23	3.2	0.7
N253714	Drill Core	14.4	1.3	0.12	0.005	18	2.4	1.2
N253715	Drill Core	23.7	1.0	0.07	0.006	17	1.9	1.3
N253716	Drill Core	40.4	1.5	0.09	<0.005	22	1.7	1.4
N253717	Drill Core	46.9	1.3	0.11	<0.005	15	0.8	1.7
N253718	Rock	1.9	0.1	<0.05	<0.005	<1	2.4	<0.5
N253719	Drill Core	31.5	1.5	0.07	<0.005	17	0.8	0.6
N253720	Drill Core	57.0	1.7	0.07	<0.005	11	1.1	0.9
N253721	Drill Core	38.8	1.5	0.07	<0.005	11	0.6	0.9
N253722	Drill Core	19.1	1.5	0.07	<0.005	24	1.4	0.7
N253723	Drill Core	45.1	1.0	0.13	0.007	15	1.8	1.1
N253724	Rock Pulp	38.4	0.6	0.11	0.438	<1	1.3	<0.5
N253725	Drill Core	32.4	0.8	0.10	0.008	12	1.1	0.9
N253726	Drill Core	48.9	1.0	0.19	<0.005	18	1.7	1.6
N253727	Drill Core	35.7	1.1	0.14	<0.005	27	1.6	1.1
N253728	Drill Core	29.2	0.8	0.07	0.010	16	1.3	0.6
N253729	Drill Core	41.3	0.7	0.09	<0.005	15	1.3	0.9
N253730	Drill Core	82.0	0.8	0.12	<0.005	17	1.7	1.6
N253732	Drill Core	6.9	0.8	0.25	<0.005	7	1.4	<0.5
N253733	Drill Core	5.7	0.8	0.09	<0.005	6	2.3	<0.5
N253734	Drill Core	6.1	1.0	0.13	<0.005	9	0.7	<0.5
N253735	Drill Core	8.2	1.1	0.26	<0.005	8	0.7	<0.5
N253736	Rock Pulp	34.8	0.8	0.27	0.343	5	2.3	<0.5
N253737	Drill Core	10.6	0.9	0.10	0.007	11	1.5	<0.5
N253738	Drill Core	4.8	0.8	0.11	<0.005	10	1.0	<0.5
N253739	Drill Core	20.4	0.8	<0.05	<0.005	11	<0.5	<0.5
N253740	Drill Core	21.2	0.8	<0.05	<0.005	17	0.6	0.6
N253741	Rock	1.5	<0.1	<0.05	<0.005	<1	2.6	<0.5
N253742	Drill Core	29.2	0.7	<0.05	<0.005	20	<0.5	0.8
N253743	Drill Core	20.1	0.5	<0.05	<0.005	12	0.7	0.7



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253744	Drill Core	8.10	2	0.4	33.6	4.4	29	<0.1	19.5	35.6	625	7.16	<1	0.4	1.0	66	<0.1	0.3	0.7	186	0.46
N253745	Drill Core	7.41	2	0.5	47.6	3.9	27	<0.1	3.7	16.4	520	5.98	<1	0.3	1.3	91	0.1	0.5	0.4	165	0.46
N253746	Rock	1.03	<2	<0.1	4.0	0.4	2	<0.1	<0.1	0.4	134	0.14	1	0.1	<0.1	85	<0.1	<0.1	<0.1	3	36.83
N253747	Drill Core	8.00	4	0.5	77.2	6.8	33	<0.1	15.7	29.5	517	8.99	<1	0.4	0.5	72	0.2	0.4	0.9	204	0.39
N253748	Drill Core	7.77	<2	0.8	26.8	3.7	12	<0.1	12.0	27.3	220	6.37	2	0.3	1.1	106	<0.1	0.3	0.4	142	0.50
N253749	Drill Core	8.67	<2	0.6	24.2	3.9	25	<0.1	6.2	18.3	379	5.88	<1	0.4	1.0	75	<0.1	0.1	0.3	151	0.46
N253750	Drill Core	8.60	<2	0.4	32.2	4.8	29	<0.1	7.4	19.5	381	6.14	<1	0.3	0.6	60	0.2	0.2	0.6	164	0.43
N253751	Drill Core	9.06	3	0.3	27.2	2.9	21	<0.1	10.1	25.8	906	6.56	<1	0.3	1.1	204	0.1	0.2	0.3	181	0.58
N253752	Drill Core	8.17	3	0.4	40.9	2.8	22	<0.1	16.7	37.1	1012	6.95	<1	0.2	1.1	187	<0.1	<0.1	0.4	182	0.72
N253753	Rock Pulp	0.06	187	384.6	1867.2	24.6	53	12.9	14.4	9.6	741	3.53	10	1.1	2.1	416	0.2	30.6	1.9	86	2.63
N253754	Drill Core	8.43	3	0.2	42.8	2.6	30	<0.1	30.0	33.6	2110	14.42	4	0.2	0.4	147	<0.1	0.5	0.2	216	0.61
N253755	Drill Core	8.38	3	0.4	70.6	2.7	25	<0.1	26.7	36.6	1431	8.48	2	0.2	0.7	167	0.4	0.3	0.3	205	0.55
N253756	Drill Core	8.61	3	0.2	43.5	2.3	22	<0.1	30.5	41.6	897	7.38	3	0.1	0.7	173	<0.1	0.1	0.3	211	0.52
N253757	Drill Core	4.02	2	1.9	27.0	3.9	27	<0.1	24.8	17.8	685	5.94	<1	0.2	1.0	146	0.2	0.2	0.9	182	0.57
N253759	Drill Core	7.89	3	0.7	65.8	4.2	50	<0.1	46.5	45.2	1139	6.99	2	0.1	0.6	431	<0.1	0.2	0.9	210	0.99
N253760	Drill Core	7.89	2	0.4	48.0	2.5	32	<0.1	21.9	25.3	672	6.53	<1	0.2	0.9	346	<0.1	<0.1	0.4	208	1.05
N253761	Drill Core	6.68	3	0.5	93.6	2.5	27	<0.1	23.3	26.1	384	6.54	<1	0.2	0.9	100	0.6	<0.1	0.4	229	0.56
N253762	Drill Core	8.27	2	0.5	93.6	2.5	36	<0.1	24.9	26.1	787	6.79	2	0.1	0.9	239	0.2	0.1	0.5	183	0.65
N253763	Drill Core	8.09	2	1.2	31.2	4.9	37	<0.1	12.4	16.3	750	5.06	<1	0.8	2.1	72	<0.1	0.2	0.4	136	0.44
N253764	Drill Core	4.10	<2	1.4	37.2	4.1	32	<0.1	15.2	17.7	763	5.10	1	0.7	1.9	111	<0.1	0.1	1.0	163	0.53
N253766	Drill Core	7.85	2	1.9	14.0	3.4	44	<0.1	17.6	16.6	1139	4.57	2	0.6	1.6	84	<0.1	<0.1	0.4	183	0.55
N253767	Drill Core	8.20	2	1.5	25.8	4.1	55	<0.1	19.1	16.5	1548	4.67	1	0.5	1.2	65	0.1	<0.1	0.4	183	0.48
N253768	Drill Core	8.20	3	4.5	79.7	23.4	133	0.1	20.7	21.4	3946	5.84	5	0.8	1.8	178	0.3	0.3	0.7	218	1.31
N253769	Drill Core	8.06	2	2.0	65.4	7.7	118	<0.1	16.8	24.4	3075	5.29	7	0.9	2.2	490	<0.1	0.4	0.4	210	3.10
N253770	Rock Pulp	0.06	620	325.1	3811.5	25.8	100	15.4	25.1	66.4	1486	4.56	2071	2.0	1.2	441	0.4	40.2	13.4	58	5.82
N253771	Drill Core	8.03	4	1.3	68.3	5.8	88	<0.1	17.4	24.9	2210	5.33	4	0.8	1.9	662	<0.1	0.3	0.4	208	2.56
N253772	Drill Core	8.10	3	1.1	81.7	4.6	91	<0.1	18.2	24.6	2748	5.27	3	0.7	1.8	548	0.2	0.4	0.6	206	2.56
N253773	Drill Core	7.82	3	1.0	38.4	5.3	38	<0.1	16.9	20.1	487	4.62	<1	0.6	1.8	92	0.1	0.1	0.7	169	0.64
N253774	Drill Core	8.40	7	1.3	71.2	4.0	68	<0.1	29.4	24.5	1614	5.81	2	0.7	1.5	255	<0.1	0.2	0.5	181	1.14
N253775	Drill Core	8.06	3	1.1	38.5	4.8	43	<0.1	13.9	22.3	762	5.27	2	0.5	1.7	279	<0.1	0.3	0.5	125	0.66



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253744	Drill Core	0.071	4.4	11	2.10	13	0.100	8.65	0.624	1.40	<0.1	13.8	12	0.7	10.0	0.7	<0.1	1	22	16.5	8.1
N253745	Drill Core	0.091	6.1	3	1.73	18	0.109	8.20	0.732	1.16	0.1	12.3	16	0.9	7.9	1.1	<0.1	<1	16	11.9	7.0
N253746	Rock	0.008	1.6	<1	1.68	20	0.007	0.18	0.031	0.02	<0.1	2.4	1	<0.1	2.8	0.2	<0.1	<1	<1	1.8	<0.1
N253747	Drill Core	0.051	3.2	9	1.35	12	0.134	7.94	0.582	1.70	0.2	14.0	9	2.5	7.9	0.7	<0.1	<1	23	9.7	>10
N253748	Drill Core	0.075	6.8	5	1.01	17	0.107	9.42	0.694	1.53	0.1	16.1	17	1.6	10.2	0.9	<0.1	<1	15	7.0	7.4
N253749	Drill Core	0.094	4.6	3	1.68	17	0.111	8.21	0.715	1.44	0.2	14.7	13	1.5	10.0	1.0	<0.1	1	15	13.4	6.7
N253750	Drill Core	0.100	3.6	3	1.60	17	0.136	6.98	0.699	1.84	0.2	11.3	10	1.8	7.9	1.0	<0.1	<1	12	13.6	7.0
N253751	Drill Core	0.085	7.4	2	1.91	19	0.126	8.81	1.663	1.25	<0.1	7.9	21	0.6	9.3	0.9	<0.1	2	17	12.4	6.0
N253752	Drill Core	0.091	8.6	8	1.90	19	0.152	8.41	1.431	1.05	0.1	4.3	21	0.5	8.1	0.9	<0.1	<1	17	9.7	5.2
N253753	Rock Pulp	0.051	8.9	18	0.84	711	0.182	7.26	2.290	1.78	1.7	8.9	19	2.8	11.5	2.4	0.2	<1	9	8.4	0.3
N253754	Drill Core	0.081	3.4	43	3.35	35	0.124	9.53	1.128	0.74	<0.1	3.2	9	0.3	6.3	0.5	<0.1	<1	20	18.4	6.8
N253755	Drill Core	0.048	6.5	20	2.56	20	0.243	8.02	1.328	0.69	0.1	3.4	15	0.7	8.5	1.1	0.1	<1	24	12.6	4.5
N253756	Drill Core	0.060	6.3	26	1.87	12	0.199	8.03	1.445	0.86	0.2	3.9	16	0.5	7.9	0.8	<0.1	<1	27	7.9	5.0
N253757	Drill Core	0.073	7.1	13	2.15	14	0.124	8.53	0.903	0.88	0.1	9.6	18	1.0	9.2	0.9	<0.1	1	19	13.2	5.7
N253759	Drill Core	0.053	6.4	55	2.45	16	0.111	7.50	1.417	0.67	0.1	7.3	16	0.6	9.0	0.4	<0.1	<1	32	11.9	6.7
N253760	Drill Core	0.068	5.7	10	2.15	13	0.091	8.20	1.791	0.81	0.1	13.6	15	0.3	8.9	0.7	<0.1	<1	21	10.6	7.2
N253761	Drill Core	0.050	6.9	23	1.26	10	0.112	7.41	0.801	1.84	0.3	13.3	19	0.4	7.5	0.9	<0.1	<1	27	6.9	7.5
N253762	Drill Core	0.046	6.3	24	2.33	13	0.075	7.60	0.879	0.94	0.1	9.4	18	0.4	8.1	0.5	<0.1	<1	26	13.0	7.5
N253763	Drill Core	0.072	8.3	9	2.34	22	0.080	8.03	0.382	1.16	0.2	42.3	21	0.4	12.2	0.8	<0.1	<1	17	14.7	5.6
N253764	Drill Core	0.076	6.3	14	1.98	17	0.106	7.23	0.610	1.52	0.2	35.6	16	0.3	11.0	0.9	<0.1	<1	20	10.8	5.6
N253766	Drill Core	0.067	5.9	14	2.15	25	0.077	7.55	0.748	1.84	0.5	35.2	16	0.6	9.4	0.5	<0.1	<1	23	12.2	5.0
N253767	Drill Core	0.072	4.4	17	2.79	35	0.112	7.61	0.557	1.90	0.3	36.1	13	0.4	8.5	0.8	<0.1	<1	22	16.4	5.0
N253768	Drill Core	0.081	9.5	20	2.71	29	0.280	7.91	0.829	1.84	0.3	44.2	24	1.0	16.6	2.7	0.1	1	26	14.9	5.2
N253769	Drill Core	0.081	12.1	25	2.61	182	0.419	8.88	2.189	0.89	0.2	53.5	27	1.0	17.8	4.1	0.2	<1	24	13.0	2.6
N253770	Rock Pulp	0.062	15.0	31	0.75	418	0.134	5.82	1.767	1.56	6.1	19.5	22	2.6	8.6	1.6	<0.1	<1	6	10.7	0.6
N253771	Drill Core	0.078	10.4	22	2.47	66	0.338	8.75	2.959	0.56	0.2	50.8	23	1.0	15.5	3.1	0.2	<1	25	16.0	3.4
N253772	Drill Core	0.085	9.0	22	2.64	212	0.376	8.60	2.326	0.52	0.3	50.8	21	0.9	13.0	3.3	0.2	1	24	19.8	2.7
N253773	Drill Core	0.073	6.1	17	1.71	19	0.121	7.58	0.576	2.70	0.1	38.3	17	1.3	12.7	1.1	<0.1	1	22	12.9	4.9
N253774	Drill Core	0.066	6.8	30	2.92	38	0.210	7.33	0.562	1.39	<0.1	35.9	18	0.5	12.8	2.0	0.1	<1	22	18.5	4.8
N253775	Drill Core	0.077	8.9	6	1.93	16	0.077	7.64	1.816	1.63	0.1	33.9	22	0.3	12.0	0.7	<0.1	<1	19	13.2	5.9



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
N253744	Drill Core	26.3	0.3	<0.05	<0.005	16	0.9	0.8
N253745	Drill Core	23.2	0.3	<0.05	<0.005	16	0.6	0.7
N253746	Rock	0.6	<0.1	<0.05	<0.005	<1	2.7	<0.5
N253747	Drill Core	43.1	0.3	<0.05	<0.005	38	1.1	1.0
N253748	Drill Core	43.9	0.5	0.06	<0.005	11	<0.5	0.9
N253749	Drill Core	32.4	0.4	<0.05	<0.005	11	<0.5	0.9
N253750	Drill Core	35.7	0.3	0.07	<0.005	21	0.6	1.1
N253751	Drill Core	32.8	0.2	<0.05	<0.005	13	0.8	0.8
N253752	Drill Core	26.1	<0.1	<0.05	<0.005	9	1.1	0.7
N253753	Rock Pulp	38.0	0.7	0.06	0.473	1	1.2	<0.5
N253754	Drill Core	5.1	<0.1	<0.05	<0.005	11	1.5	0.7
N253755	Drill Core	17.2	<0.1	<0.05	<0.005	8	0.8	0.7
N253756	Drill Core	24.7	0.1	<0.05	<0.005	11	0.6	0.6
N253757	Drill Core	26.4	0.3	<0.05	<0.005	15	1.5	0.6
N253759	Drill Core	19.8	0.1	<0.05	<0.005	10	1.3	0.7
N253760	Drill Core	27.1	0.4	0.06	<0.005	6	<0.5	0.6
N253761	Drill Core	54.5	0.4	<0.05	<0.005	8	1.2	1.0
N253762	Drill Core	27.1	0.3	<0.05	<0.005	7	<0.5	0.6
N253763	Drill Core	28.5	1.3	<0.05	<0.005	10	0.9	0.8
N253764	Drill Core	42.5	0.9	<0.05	<0.005	6	0.7	0.9
N253766	Drill Core	48.6	1.1	<0.05	<0.005	8	0.8	1.1
N253767	Drill Core	29.1	0.9	<0.05	<0.005	6	0.7	1.2
N253768	Drill Core	59.5	1.2	0.14	<0.005	10	1.8	1.1
N253769	Drill Core	31.6	1.4	0.10	<0.005	5	1.2	0.6
N253770	Rock Pulp	34.7	0.8	0.12	0.392	5	2.6	<0.5
N253771	Drill Core	17.5	1.4	0.06	<0.005	15	0.5	<0.5
N253772	Drill Core	11.0	1.4	0.07	<0.005	13	0.5	<0.5
N253773	Drill Core	55.8	1.0	<0.05	<0.005	10	<0.5	1.1
N253774	Drill Core	20.2	1.0	<0.05	<0.005	5	1.3	1.0
N253775	Drill Core	46.5	0.8	<0.05	<0.005	6	0.7	0.8



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Project: Pemberton

Report Date: January 29, 2019

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Method Analyte	Unit	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
MDL	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
N253776	Rock	0.79	<2	0.1	2.2	0.4	2	<0.1	0.1	<0.2	114	0.10	<1	0.1	<0.1	77	<0.1	<0.1	<0.1	<1	34.67
N253777	Drill Core	8.18	3	1.3	40.5	5.0	51	<0.1	10.5	18.9	1092	5.70	<1	0.5	1.7	423	0.2	0.2	0.6	121	1.29
N253778	Drill Core	8.14	2	8.8	33.6	5.7	45	<0.1	12.7	24.7	993	6.12	<1	0.6	2.0	283	0.1	0.3	0.6	112	1.27
N253779	Drill Core	7.85	2	0.9	47.6	4.6	49	<0.1	10.7	18.8	1200	5.26	<1	0.6	2.0	197	0.1	0.1	0.4	113	1.14
N253780	Drill Core	8.47	2	0.9	62.8	5.1	50	<0.1	9.9	20.3	1114	5.26	1	0.6	2.0	305	0.1	0.1	0.4	125	0.76
N253781	Rock	1.16	<2	0.1	2.5	0.3	2	<0.1	0.5	0.4	101	0.09	3	<0.1	<0.1	68	0.2	<0.1	<0.1	<1	33.62
N253782	Drill Core	8.79	6	1.0	47.6	5.2	45	<0.1	10.5	18.9	1817	5.63	<1	0.8	2.2	421	<0.1	0.1	0.4	167	1.94
N253783	Drill Core	7.57	5	0.7	58.4	5.7	39	<0.1	12.3	20.9	1986	5.87	2	0.8	2.3	517	0.2	0.1	0.4	175	1.58
N253784	Drill Core	8.33	5	1.4	34.2	5.1	33	<0.1	11.7	15.8	876	6.13	<1	0.6	2.0	192	0.2	0.1	0.4	137	0.97
N253785	Rock Pulp	0.06	170	380.4	1883.2	22.8	59	12.6	13.9	9.0	713	3.51	12	1.0	2.1	420	0.3	30.9	1.7	83	2.65
N253786	Drill Core	8.34	3	6.7	24.6	11.4	57	<0.1	10.0	18.1	771	6.22	<1	0.5	1.6	106	0.5	0.1	0.4	104	0.59
N253787	Drill Core	7.61	8	1.5	48.2	5.8	48	<0.1	12.0	26.6	1117	5.74	<1	0.7	1.7	273	<0.1	0.2	0.6	179	1.29
N253788	Drill Core	8.44	8	2.0	45.0	5.6	47	<0.1	10.6	21.3	1884	5.37	2	0.8	2.1	464	0.2	0.1	0.4	189	1.45
N253789	Drill Core	4.11	6	1.3	44.8	4.4	47	<0.1	11.2	21.0	1950	5.31	4	0.8	2.0	563	0.1	0.2	0.2	206	2.35
N253791	Drill Core	8.13	5	1.1	55.1	4.1	41	<0.1	11.5	20.8	1596	5.35	3	0.8	2.0	581	0.2	0.1	0.3	202	1.85
N253792	Drill Core	7.75	4	1.2	45.0	9.1	62	<0.1	10.5	18.3	1981	5.14	3	0.8	2.1	452	0.1	0.3	0.4	189	2.20
N253793	Drill Core	8.74	3	1.7	53.9	4.6	53	<0.1	10.8	21.4	1751	5.30	4	0.8	2.0	591	<0.1	0.2	0.3	212	2.55
N253794	Drill Core	8.25	3	1.7	49.7	5.7	60	<0.1	10.8	20.7	2074	5.67	1	0.9	2.0	592	<0.1	0.2	0.2	219	3.31
N253795	Drill Core	7.05	2	0.8	59.5	4.5	48	<0.1	12.5	23.7	1696	5.52	1	0.9	2.2	601	0.3	0.2	0.3	207	2.78
N253796	Drill Core	4.51	4	0.8	50.8	5.9	60	<0.1	12.0	20.2	2198	6.05	3	0.9	2.0	559	0.2	0.3	0.3	227	3.05
N253798	Drill Core	7.41	3	1.0	36.0	4.6	51	<0.1	12.0	20.1	1866	5.58	5	0.8	2.0	428	<0.1	0.3	0.3	221	2.91
N253799	Drill Core	10.20	3	1.4	50.2	4.8	55	<0.1	12.1	23.3	1858	5.88	4	0.8	2.2	564	<0.1	0.3	0.3	222	2.97
N253800	Drill Core	7.67	3	2.4	46.2	5.6	38	<0.1	9.7	19.2	1327	4.50	<1	0.9	2.5	455	<0.1	0.2	0.3	176	1.85
N253801	Drill Core	8.64	4	1.9	45.3	6.2	37	<0.1	10.1	19.5	1285	5.21	1	1.2	2.9	445	<0.1	0.3	0.4	175	2.02
N253802	Drill Core	8.19	3	1.0	31.2	4.8	42	<0.1	9.3	16.4	1787	5.18	5	1.2	2.9	541	0.1	0.3	0.3	168	2.41
N253803	Drill Core	7.18	4	11.9	43.2	4.3	32	<0.1	7.7	20.6	1139	4.71	<1	1.2	3.1	363	<0.1	0.2	0.3	159	1.94
N253804	Rock Pulp	0.06	608	358.2	4022.5	27.0	100	16.6	25.9	72.7	1447	4.82	1904	2.3	1.4	457	0.5	40.3	14.4	63	5.88
N253805	Drill Core	7.13	4	1.0	49.3	3.7	29	<0.1	7.8	16.6	1049	4.42	1	1.1	3.0	300	<0.1	0.2	0.3	162	1.70
N253806	Drill Core	7.64	4	1.5	43.5	5.1	36	<0.1	7.3	16.4	1084	4.68	1	1.1	2.9	365	0.1	0.3	0.3	150	1.60
N253807	Drill Core	7.43	3	1.2	32.3	4.3	36	<0.1	6.3	15.4	1203	4.36	2	1.1	2.9	382	<0.1	0.3	0.2	146	2.06



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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253776	Rock	0.005	1.4	1	1.76	16	0.005	0.07	0.021	0.01	<0.1	1.3	1	<0.1	2.0	0.1	<0.1	<1	<1	0.5	<0.1
N253777	Drill Core	0.071	10.6	5	1.99	16	0.103	7.79	2.582	0.64	<0.1	33.4	24	0.3	10.8	1.0	<0.1	1	19	12.9	6.5
N253778	Drill Core	0.075	11.5	3	1.67	17	0.079	8.37	2.223	0.94	<0.1	36.6	26	0.6	12.7	0.8	<0.1	1	20	15.0	6.9
N253779	Drill Core	0.078	11.2	5	1.86	17	0.096	8.12	2.497	0.80	0.2	36.3	25	0.6	11.8	1.0	<0.1	<1	18	15.6	6.0
N253780	Drill Core	0.072	11.6	4	1.83	13	0.088	8.28	2.538	1.03	<0.1	36.7	27	0.5	10.9	1.0	<0.1	<1	19	13.6	6.1
N253781	Rock	0.009	0.9	<1	1.59	14	0.005	0.07	0.027	0.02	<0.1	1.4	<1	<0.1	2.0	<0.1	<0.1	<1	<1	0.9	<0.1
N253782	Drill Core	0.076	12.5	7	1.83	25	0.219	8.65	2.612	0.84	0.3	45.8	27	0.3	15.6	2.0	0.1	<1	21	14.0	4.7
N253783	Drill Core	0.082	12.6	7	2.03	27	0.245	8.01	2.986	0.76	0.2	45.5	28	0.7	14.7	2.3	0.2	<1	21	12.1	4.6
N253784	Drill Core	0.069	9.9	4	1.42	12	0.109	7.83	2.672	1.35	0.2	37.4	23	0.5	15.5	1.1	<0.1	<1	18	7.0	6.7
N253785	Rock Pulp	0.049	9.3	17	0.84	707	0.181	6.65	2.244	1.72	1.7	8.9	22	2.3	11.7	2.5	0.2	<1	9	8.5	0.3
N253786	Drill Core	0.090	5.7	5	1.66	12	0.078	6.69	2.395	1.54	0.1	34.6	16	0.8	12.3	0.8	<0.1	1	16	11.5	7.2
N253787	Drill Core	0.080	8.8	8	1.83	15	0.179	7.71	3.076	1.12	0.2	44.0	21	0.7	12.9	1.4	0.1	<1	18	9.7	5.9
N253788	Drill Core	0.072	11.6	8	2.19	30	0.272	8.11	2.843	1.24	0.3	44.6	28	0.6	15.6	2.3	0.2	1	20	12.1	3.7
N253789	Drill Core	0.076	10.1	9	2.36	210	0.385	8.34	3.021	0.78	0.3	48.3	24	0.8	15.6	3.6	0.2	<1	21	15.9	1.8
N253791	Drill Core	0.076	12.4	9	2.65	95	0.340	8.20	2.799	0.86	0.3	42.6	27	0.4	15.3	3.0	0.2	1	19	18.3	2.5
N253792	Drill Core	0.076	13.0	8	2.29	49	0.306	8.47	2.334	1.27	0.2	41.5	31	0.9	18.9	3.0	0.2	<1	21	13.9	3.0
N253793	Drill Core	0.086	10.2	9	2.39	154	0.401	8.42	3.042	1.16	0.3	46.8	22	0.9	15.7	3.5	0.2	1	22	13.1	1.8
N253794	Drill Core	0.094	11.5	9	2.56	458	0.429	9.00	2.953	1.02	0.3	52.7	24	0.8	17.2	4.1	0.2	<1	22	14.7	1.5
N253795	Drill Core	0.091	10.8	10	2.39	147	0.379	8.84	3.040	1.18	0.2	49.7	24	0.6	16.6	3.3	0.2	<1	22	12.3	2.2
N253796	Drill Core	0.095	10.0	10	2.60	256	0.415	9.20	3.353	1.12	0.9	50.1	24	0.8	17.4	3.7	0.2	2	21	14.1	2.1
N253798	Drill Core	0.092	11.3	9	2.41	372	0.432	8.71	3.275	1.11	0.2	50.2	25	0.5	16.2	3.9	0.3	<1	23	12.6	1.4
N253799	Drill Core	0.093	10.5	10	2.50	421	0.434	9.01	3.243	1.02	0.3	51.0	24	0.7	17.3	4.0	0.2	1	22	12.9	1.6
N253800	Drill Core	0.087	13.4	7	2.20	44	0.302	9.06	2.475	1.29	0.4	49.2	29	0.9	15.6	3.0	0.2	<1	19	15.1	2.3
N253801	Drill Core	0.094	16.1	5	2.28	54	0.345	9.04	2.942	1.11	0.4	63.0	32	0.8	18.1	4.1	0.2	1	17	12.9	2.4
N253802	Drill Core	0.091	14.3	5	2.15	342	0.365	8.93	3.376	0.86	0.3	63.4	30	0.7	17.6	4.5	0.3	2	17	13.3	1.3
N253803	Drill Core	0.088	14.8	5	2.03	92	0.340	8.36	3.061	0.94	0.5	61.4	31	0.9	17.1	4.3	0.3	<1	16	12.1	1.9
N253804	Rock Pulp	0.068	15.7	35	0.78	634	0.137	6.19	1.805	1.63	3.9	21.0	24	3.1	8.6	1.6	<0.1	1	6	11.8	0.7
N253805	Drill Core	0.090	14.8	6	2.09	124	0.338	8.32	2.979	1.08	0.4	60.6	31	1.0	17.1	4.4	0.3	2	15	13.3	1.9
N253806	Drill Core	0.090	14.1	6	1.99	81	0.294	8.32	3.078	1.00	0.3	61.0	29	0.7	16.1	3.8	0.2	<1	14	16.8	2.2
N253807	Drill Core	0.087	14.4	5	1.86	277	0.302	8.15	3.210	0.69	0.4	57.6	30	0.7	16.1	3.8	0.3	<1	14	15.2	1.5



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253776	Rock	0.4	<0.1	<0.05	<0.005	<1	2.4	<0.5
N253777	Drill Core	25.2	0.9	<0.05	<0.005	10	<0.5	<0.5
N253778	Drill Core	34.7	1.0	<0.05	<0.005	17	0.5	0.6
N253779	Drill Core	30.0	1.1	<0.05	<0.005	12	<0.5	0.6
N253780	Drill Core	35.5	1.1	<0.05	<0.005	7	<0.5	0.7
N253781	Rock	0.6	<0.1	<0.05	<0.005	<1	2.1	<0.5
N253782	Drill Core	34.1	1.3	<0.05	<0.005	11	<0.5	0.6
N253783	Drill Core	31.7	1.2	0.13	<0.005	11	0.6	0.6
N253784	Drill Core	48.5	0.9	<0.05	<0.005	14	0.5	0.8
N253785	Rock Pulp	39.5	0.5	<0.05	0.384	<1	0.7	<0.5
N253786	Drill Core	46.0	0.9	<0.05	0.009	27	<0.5	0.9
N253787	Drill Core	38.5	1.0	<0.05	<0.005	20	0.8	0.9
N253788	Drill Core	43.3	1.2	<0.05	0.010	6	<0.5	0.8
N253789	Drill Core	23.4	1.1	<0.05	0.012	5	<0.5	<0.5
N253791	Drill Core	31.2	1.2	<0.05	<0.005	7	0.5	<0.5
N253792	Drill Core	43.1	1.0	0.07	<0.005	7	1.0	0.7
N253793	Drill Core	28.2	1.2	<0.05	<0.005	7	1.0	0.5
N253794	Drill Core	18.1	1.3	0.08	<0.005	8	0.9	<0.5
N253795	Drill Core	28.9	1.3	<0.05	<0.005	8	0.8	0.6
N253796	Drill Core	21.8	1.5	0.06	<0.005	6	1.0	<0.5
N253798	Drill Core	23.5	1.2	<0.05	<0.005	6	0.8	<0.5
N253799	Drill Core	20.7	1.3	<0.05	<0.005	7	0.7	<0.5
N253800	Drill Core	44.0	1.5	<0.05	<0.005	10	<0.5	0.8
N253801	Drill Core	39.0	1.6	0.09	<0.005	10	0.7	0.7
N253802	Drill Core	27.0	1.7	0.07	<0.005	7	0.5	<0.5
N253803	Drill Core	30.9	1.5	<0.05	<0.005	12	0.8	<0.5
N253804	Rock Pulp	36.0	0.7	0.12	0.348	7	2.2	<0.5
N253805	Drill Core	36.0	1.6	<0.05	<0.005	11	1.1	0.5
N253806	Drill Core	33.9	1.8	<0.05	<0.005	7	0.7	0.6
N253807	Drill Core	23.8	1.6	<0.05	<0.005	13	<0.5	<0.5



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Project: Pemberton

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CERTIFICATE OF ANALYSIS

VAN18003781.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253808	Drill Core	8.81	3	1.3	39.6	5.6	42	<0.1	7.9	13.2	1446	4.77	5	1.2	3.2	407	<0.1	0.1	0.3	157	2.00
N253809	Drill Core	7.88	6	0.7	33.6	42.7	49	<0.1	8.1	13.3	1046	4.73	1	0.9	3.0	161	<0.1	0.2	0.2	148	0.83
N253810	Rock	1.20	<2	<0.1	1.8	0.4	3	<0.1	0.4	<0.2	113	0.11	<1	0.1	<0.1	78	0.1	<0.1	<0.1	1	36.01
N253811	Drill Core	7.65	4	1.8	13.4	5.1	31	<0.1	9.7	18.8	626	4.83	1	0.9	2.8	107	<0.1	0.3	0.2	130	0.73
N253812	Drill Core	8.85	5	0.7	38.5	4.8	38	<0.1	4.2	14.2	942	4.91	<1	1.0	2.5	69	<0.1	0.1	0.3	141	0.44
N253813	Drill Core	8.01	2	1.6	19.6	10.3	24	<0.1	4.9	18.9	243	5.08	<1	0.9	2.2	57	0.4	0.3	0.3	127	0.73
N253814	Drill Core	8.62	2	1.0	18.2	10.3	84	<0.1	4.3	10.3	228	4.35	<1	1.0	2.2	52	0.8	0.3	0.3	130	0.57
N253815	Drill Core	7.99	6	2.2	32.7	6.9	32	0.1	4.1	19.5	632	5.50	2	0.8	2.6	141	<0.1	0.2	0.3	157	1.01
N253816	Rock	1.15	<2	<0.1	1.7	0.4	4	<0.1	0.2	<0.2	122	0.11	<1	0.1	<0.1	75	<0.1	<0.1	<0.1	1	32.92
N253817	Drill Core	7.83	3	1.5	28.2	8.2	56	<0.1	3.1	18.0	1432	5.24	<1	0.7	2.1	389	<0.1	0.3	0.1	217	2.74
N253818	Drill Core	7.84	5	0.9	13.4	5.8	56	<0.1	2.4	16.5	1587	5.84	6	0.7	2.2	337	0.2	0.4	0.1	203	2.49
N253819	Drill Core	8.22	24	0.8	27.6	6.4	52	<0.1	3.0	17.1	1464	5.72	16	0.7	2.3	350	0.2	0.4	<0.1	228	2.54
N253820	Drill Core	7.94	58	0.9	45.1	9.7	52	0.1	2.5	17.1	980	5.72	44	0.7	2.5	262	<0.1	0.8	<0.1	219	2.02
N253821	Drill Core	7.75	7	0.8	31.0	5.0	37	<0.1	3.2	23.3	858	5.97	9	0.6	2.3	286	<0.1	0.6	0.1	223	2.22
N253822	Rock Pulp	0.06	192	392.6	1880.6	24.5	58	13.2	14.4	8.6	724	3.53	12	1.2	2.0	416	0.3	28.8	2.0	86	2.70
N253823	Drill Core	8.80	4	3.9	16.1	9.5	68	<0.1	2.8	20.0	713	5.64	2	0.8	2.3	314	0.7	0.3	0.3	206	2.66
N253824	Drill Core	7.14	4	1.9	19.2	5.6	58	<0.1	2.6	14.4	754	5.10	6	1.0	2.6	229	0.4	0.4	0.1	194	4.11
N253825	Drill Core	9.58	5	4.8	176.5	8.4	152	0.1	2.8	17.0	741	6.07	4	0.9	2.2	204	1.1	0.3	0.2	203	1.90
N253826	Drill Core	8.33	4	1.0	37.4	5.0	25	<0.1	3.7	16.3	541	5.86	<1	0.7	2.1	231	<0.1	0.1	<0.1	208	1.69
N253827	Drill Core	3.89	4	2.3	24.2	9.6	39	0.1	5.9	20.3	667	5.70	2	0.8	2.7	208	0.4	0.2	0.2	193	1.51



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
N253808	Drill Core	0.092	14.3	6	1.98	323	0.319	8.42	3.246	0.69	0.2	58.7	31	0.9	16.9	4.3	0.2	<1	15	14.9	1.3
N253809	Drill Core	0.095	13.1	4	1.93	35	0.153	8.61	2.016	1.72	0.2	50.6	29	71.4	16.0	1.3	0.1	1	15	16.3	2.4
N253810	Rock	0.007	1.2	<1	2.11	14	0.006	0.07	0.029	0.01	<0.1	1.4	1	<0.1	2.3	0.1	<0.1	<1	<1	0.9	<0.1
N253811	Drill Core	0.095	8.8	4	1.45	24	0.099	8.16	1.596	2.57	0.2	46.6	22	0.5	15.0	1.0	<0.1	<1	15	12.9	4.1
N253812	Drill Core	0.095	8.3	3	1.73	24	0.113	7.86	0.881	2.72	0.3	45.3	22	0.6	12.8	1.0	<0.1	1	15	12.7	4.1
N253813	Drill Core	0.091	7.2	4	0.96	21	0.067	7.72	0.431	1.93	0.4	41.3	19	1.1	12.7	0.8	<0.1	<1	11	13.7	5.6
N253814	Drill Core	0.086	7.1	4	1.62	25	0.078	7.89	0.292	1.85	0.6	48.9	18	1.5	13.6	1.0	<0.1	<1	12	21.2	4.7
N253815	Drill Core	0.098	11.0	3	2.13	22	0.133	8.09	1.508	1.60	0.4	30.4	26	0.9	14.3	1.1	<0.1	1	14	21.2	4.3
N253816	Rock	0.007	1.2	<1	2.12	16	0.006	0.07	0.029	0.02	<0.1	1.3	1	<0.1	2.3	0.1	<0.1	<1	<1	1.3	<0.1
N253817	Drill Core	0.108	11.9	4	2.63	166	0.416	8.95	2.864	1.17	0.4	22.4	29	1.6	20.1	3.8	0.2	<1	15	20.0	2.6
N253818	Drill Core	0.106	12.5	2	2.49	205	0.397	8.45	3.035	1.08	0.5	21.5	28	1.1	18.6	3.5	0.3	<1	16	18.0	2.3
N253819	Drill Core	0.113	12.9	3	2.58	408	0.429	8.99	2.867	1.19	0.6	21.3	29	1.0	19.1	4.0	0.3	<1	17	20.4	1.5
N253820	Drill Core	0.104	14.0	3	2.18	66	0.385	9.09	3.331	1.18	0.4	18.5	29	1.7	19.9	3.2	0.2	<1	16	17.1	2.8
N253821	Drill Core	0.098	11.9	3	2.22	47	0.357	8.99	2.650	1.55	0.6	15.1	28	1.9	18.0	3.2	0.2	<1	16	22.2	2.6
N253822	Rock Pulp	0.053	8.6	18	0.83	721	0.182	7.14	2.213	1.69	1.6	9.0	20	3.2	11.3	2.5	0.1	<1	8	6.6	0.3
N253823	Drill Core	0.098	12.0	3	1.68	41	0.354	8.88	4.159	1.15	0.6	19.1	27	1.8	17.5	3.3	0.2	<1	14	11.6	3.8
N253824	Drill Core	0.113	12.5	2	1.69	78	0.345	8.14	3.339	1.26	0.4	19.1	27	1.5	17.9	3.4	0.2	<1	14	11.8	3.0
N253825	Drill Core	0.101	12.6	2	1.84	22	0.310	8.79	3.265	1.30	0.5	17.0	28	1.0	18.6	2.7	0.2	1	13	13.9	4.2
N253826	Drill Core	0.107	13.1	3	1.76	23	0.213	9.07	3.539	1.19	0.5	14.2	29	0.7	18.1	1.6	0.1	1	15	16.9	4.3
N253827	Drill Core	0.098	12.6	4	1.53	21	0.221	8.97	2.667	1.55	0.5	17.9	29	1.1	17.9	1.7	0.1	1	15	17.2	3.9



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253808	Drill Core	25.4	1.5	<0.05	<0.005	6	<0.5	<0.5
N253809	Drill Core	57.7	1.4	<0.05	<0.005	12	0.9	1.2
N253810	Rock	0.4	<0.1	<0.05	<0.005	<1	2.6	<0.5
N253811	Drill Core	69.8	1.4	<0.05	0.008	13	1.3	1.2
N253812	Drill Core	70.9	1.0	<0.05	<0.005	9	1.1	1.4
N253813	Drill Core	62.4	1.0	<0.05	<0.005	17	<0.5	1.3
N253814	Drill Core	51.3	1.3	0.05	<0.005	17	0.7	0.9
N253815	Drill Core	64.6	0.8	<0.05	0.008	14	0.8	0.8
N253816	Rock	0.3	<0.1	<0.05	<0.005	<1	1.7	<0.5
N253817	Drill Core	29.2	0.7	<0.05	0.029	6	1.3	0.5
N253818	Drill Core	31.3	0.7	0.05	0.006	5	0.8	0.5
N253819	Drill Core	36.1	0.5	<0.05	<0.005	2	0.7	0.7
N253820	Drill Core	49.4	0.5	0.10	<0.005	4	0.8	0.5
N253821	Drill Core	62.4	0.3	0.10	<0.005	12	1.2	0.8
N253822	Rock Pulp	38.5	0.5	0.13	0.410	<1	1.1	<0.5
N253823	Drill Core	42.0	0.6	<0.05	0.064	9	2.0	0.5
N253824	Drill Core	44.0	0.6	<0.05	0.019	7	1.6	0.6
N253825	Drill Core	50.7	0.5	0.08	<0.005	8	1.1	0.5
N253826	Drill Core	47.5	0.4	<0.05	<0.005	13	1.1	<0.5
N253827	Drill Core	58.2	0.5	<0.05	<0.005	7	0.7	0.6



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QUALITY CONTROL REPORT

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
N253688	Drill Core	3.75	2	0.7	15.2	16.8	104	<0.1	1.8	8.1	780	3.51	<1	1.6	2.9	59	0.4	1.3	0.8	62	0.34
REP N253688	QC	3																			
N253717	Drill Core	8.13	<2	1.2	46.6	10.4	64	<0.1	6.7	14.5	724	5.14	3	0.9	1.9	78	<0.1	2.3	0.4	155	0.46
REP N253717	QC	1.5 44.8 10.6 67 <0.1 7.1 14.7 750 5.13 2 0.9 2.0 78 0.1 2.3 0.5 154 0.44																			
N253725	Drill Core	7.72	<2	3.9	39.2	10.3	85	<0.1	13.1	20.4	1548	4.59	3	0.5	1.3	145	0.1	0.4	0.3	157	0.67
REP N253725	QC	<2																			
N253750	Drill Core	8.60	<2	0.4	32.2	4.8	29	<0.1	7.4	19.5	381	6.14	<1	0.3	0.6	60	0.2	0.2	0.6	164	0.43
REP N253750	QC	0.6 32.4 4.5 28 <0.1 7.4 18.4 383 6.18 <1 0.3 0.6 59 <0.1 0.2 0.5 163 0.44																			
N253753	Rock Pulp	0.06	187	384.6	1867.2	24.6	53	12.9	14.4	9.6	741	3.53	10	1.1	2.1	416	0.2	30.6	1.9	86	2.63
REP N253753	QC	402.3 1914.4 24.8 58 13.7 15.3 9.5 742 3.65 10 1.2 2.3 432 0.3 31.4 1.9 89 2.73																			
N253761	Drill Core	6.68	3	0.5	93.6	2.5	27	<0.1	23.3	26.1	384	6.54	<1	0.2	0.9	100	0.6	<0.1	0.4	229	0.56
REP N253761	QC	3																			
N253791	Drill Core	8.13	5	1.1	55.1	4.1	41	<0.1	11.5	20.8	1596	5.35	3	0.8	2.0	581	0.2	0.1	0.3	202	1.85
REP N253791	QC	1.2 57.4 4.4 45 <0.1 11.3 21.8 1635 5.46 3 0.9 2.1 612 <0.1 0.2 0.4 206 1.91																			
N253799	Drill Core	10.20	3	1.4	50.2	4.8	55	<0.1	12.1	23.3	1858	5.88	4	0.8	2.2	564	<0.1	0.3	0.3	222	2.97
REP N253799	QC	3																			
N253823	Drill Core	8.80	4	3.9	16.1	9.5	68	<0.1	2.8	20.0	713	5.64	2	0.8	2.3	314	0.7	0.3	0.3	206	2.66
REP N253823	QC	5																			
N253826	Drill Core	8.33	4	1.0	37.4	5.0	25	<0.1	3.7	16.3	541	5.86	<1	0.7	2.1	231	<0.1	0.1	<0.1	208	1.69
REP N253826	QC	0.8 39.8 5.4 27 <0.1 3.6 17.1 567 5.92 1 0.7 2.4 233 <0.1 0.2 <0.1 208 1.72																			
Core Reject Duplicates																					
N253686	Drill Core	8.15	2	2.3	14.1	17.6	95	<0.1	1.4	8.3	892	3.80	<1	1.5	2.3	77	0.2	1.3	1.3	75	0.43
DUP N253686	QC	2 2.4 13.8 19.2 93 <0.1 1.5 8.5 913 3.85 <1 1.4 2.3 75 0.2 1.4 1.3 76 0.38																			
N253723	Drill Core	7.44	<2	7.8	141.9	11.4	73	<0.1	14.7	22.9	1142	5.02	4	0.8	2.1	101	0.3	1.8	0.4	148	0.47
DUP N253723	QC	5 8.8 145.6 12.3 75 <0.1 15.6 24.6 1190 5.38 4 0.7 2.1 104 0.2 2.0 0.4 157 0.46																			
N253759	Drill Core	7.89	3	0.7	65.8	4.2	50	<0.1	46.5	45.2	1139	6.99	2	0.1	0.6	431	<0.1	0.2	0.9	210	0.99
DUP N253759	QC	4 0.7 63.8 4.1 47 <0.1 52.8 43.2 1181 6.98 <1 0.2 0.6 423 <0.1 0.1 0.9 213 1.05																			
N253795	Drill Core	7.05	2	0.8	59.5	4.5	48	<0.1	12.5	23.7	1696	5.52	1	0.9	2.2	601	0.3	0.2	0.3	207	2.78



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QUALITY CONTROL REPORT

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
N253688	Drill Core	0.107	9.1	1	1.86	22	0.111	8.71	0.979	1.75	1.6	103.0	25	0.5	12.8	1.9	0.1	<1	9	15.1	3.8
REP N253688	QC																				
N253717	Drill Core	0.106	5.5	4	1.91	18	0.126	10.94	0.700	2.43	0.2	46.1	16	1.2	10.3	1.3	<0.1	1	15	13.5	5.4
REP N253717	QC	0.107	4.7	4	1.89	18	0.116	10.92	0.767	2.45	0.1	43.8	14	1.2	10.3	1.1	<0.1	1	15	14.2	5.4
N253725	Drill Core	0.085	7.3	5	2.40	22	0.112	8.59	1.609	1.34	0.1	31.9	19	0.8	10.3	1.1	<0.1	2	16	17.1	4.5
REP N253725	QC																				
N253750	Drill Core	0.100	3.6	3	1.60	17	0.136	6.98	0.699	1.84	0.2	11.3	10	1.8	7.9	1.0	<0.1	<1	12	13.6	7.0
REP N253750	QC	0.090	3.4	5	1.57	14	0.140	6.64	0.708	1.77	0.2	10.5	9	1.7	8.5	1.0	<0.1	<1	11	12.1	6.9
N253753	Rock Pulp	0.051	8.9	18	0.84	711	0.182	7.26	2.290	1.78	1.7	8.9	19	2.8	11.5	2.4	0.2	<1	9	8.4	0.3
REP N253753	QC	0.049	9.3	20	0.87	736	0.185	7.41	2.340	1.84	1.4	9.5	21	2.8	12.0	2.5	0.2	<1	9	8.4	0.3
N253761	Drill Core	0.050	6.9	23	1.26	10	0.112	7.41	0.801	1.84	0.3	13.3	19	0.4	7.5	0.9	<0.1	<1	27	6.9	7.5
REP N253761	QC																				
N253791	Drill Core	0.076	12.4	9	2.65	95	0.340	8.20	2.799	0.86	0.3	42.6	27	0.4	15.3	3.0	0.2	1	19	18.3	2.5
REP N253791	QC	0.084	12.2	8	2.69	74	0.348	8.77	2.906	0.91	0.3	44.3	28	0.5	16.0	3.4	0.2	<1	21	17.3	2.5
N253799	Drill Core	0.093	10.5	10	2.50	421	0.434	9.01	3.243	1.02	0.3	51.0	24	0.7	17.3	4.0	0.2	1	22	12.9	1.6
REP N253799	QC																				
N253823	Drill Core	0.098	12.0	3	1.68	41	0.354	8.88	4.159	1.15	0.6	19.1	27	1.8	17.5	3.3	0.2	<1	14	11.6	3.8
REP N253823	QC																				
N253826	Drill Core	0.107	13.1	3	1.76	23	0.213	9.07	3.539	1.19	0.5	14.2	29	0.7	18.1	1.6	0.1	1	15	16.9	4.3
REP N253826	QC	0.107	13.4	2	1.77	23	0.224	9.13	3.572	1.24	0.3	14.8	30	0.5	19.5	1.6	0.1	<1	15	17.9	4.4
Core Reject Duplicates																					
N253686	Drill Core	0.090	6.1	2	2.23	31	0.132	8.33	0.349	1.57	0.2	90.8	16	0.8	11.1	2.6	0.2	2	11	14.5	4.0
DUP N253686	QC	0.101	6.3	2	2.21	33	0.138	8.36	0.402	1.40	0.3	90.9	17	0.8	11.8	2.6	0.2	1	11	14.5	4.1
N253723	Drill Core	0.108	7.8	3	1.92	19	0.090	8.86	1.214	1.78	<0.1	38.7	20	0.7	13.1	1.1	<0.1	<1	16	11.4	5.3
DUP N253723	QC	0.105	8.1	3	1.99	21	0.096	9.43	1.243	1.87	0.2	39.7	22	1.0	14.0	1.1	<0.1	1	17	11.0	5.5
N253759	Drill Core	0.053	6.4	55	2.45	16	0.111	7.50	1.417	0.67	0.1	7.3	16	0.6	9.0	0.4	<0.1	<1	32	11.9	6.7
DUP N253759	QC	0.057	6.8	54	2.49	17	0.109	8.06	1.448	0.69	0.1	7.0	16	0.8	8.8	0.4	<0.1	<1	32	11.1	6.6
N253795	Drill Core	0.091	10.8	10	2.39	147	0.379	8.84	3.040	1.18	0.2	49.7	24	0.6	16.6	3.3	0.2	<1	22	12.3	2.2



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Method Analyte	Unit	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253688	Drill Core	40.0	2.7	<0.05	0.006	15	<0.5	1.4
REP N253688	QC							
N253717	Drill Core	46.9	1.3	0.11	<0.005	15	0.8	1.7
REP N253717	QC	44.0	1.3	0.10	<0.005	15	0.8	1.7
N253725	Drill Core	32.4	0.8	0.10	0.008	12	1.1	0.9
REP N253725	QC							
N253750	Drill Core	35.7	0.3	0.07	<0.005	21	0.6	1.1
REP N253750	QC	34.7	0.3	<0.05	<0.005	19	<0.5	1.1
N253753	Rock Pulp	38.0	0.7	0.06	0.473	1	1.2	<0.5
REP N253753	QC	38.1	0.4	0.11	0.408	<1	0.9	<0.5
N253761	Drill Core	54.5	0.4	<0.05	<0.005	8	1.2	1.0
REP N253761	QC							
N253791	Drill Core	31.2	1.2	<0.05	<0.005	7	0.5	<0.5
REP N253791	QC	32.3	1.0	0.05	<0.005	8	0.7	<0.5
N253799	Drill Core	20.7	1.3	<0.05	<0.005	7	0.7	<0.5
REP N253799	QC							
N253823	Drill Core	42.0	0.6	<0.05	0.064	9	2.0	0.5
REP N253823	QC							
N253826	Drill Core	47.5	0.4	<0.05	<0.005	13	1.1	<0.5
REP N253826	QC	49.1	0.5	<0.05	<0.005	12	0.8	<0.5
Core Reject Duplicates								
N253686	Drill Core	20.1	2.6	<0.05	<0.005	15	0.6	1.2
DUP N253686	QC	20.4	2.5	<0.05	<0.005	17	0.7	1.2
N253723	Drill Core	45.1	1.0	0.13	0.007	15	1.8	1.1
DUP N253723	QC	46.5	0.9	0.13	0.005	16	1.6	1.1
N253759	Drill Core	19.8	0.1	<0.05	<0.005	10	1.3	0.7
DUP N253759	QC	21.7	0.2	<0.05	<0.005	13	1.3	0.7
N253795	Drill Core	28.9	1.3	<0.05	<0.005	8	0.8	0.6



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP N253795	QC		4	1.2	61.6	4.7	43	<0.1	11.9	24.1	1659	5.57	2	0.8	2.1	599	<0.1	0.3	0.4	208	2.82
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	35.6	24.6	45	<0.1	45.0	7.8	493	6.55	10	3.0	16.3	51	<0.1	0.7	0.3	157	0.30
STD OREAS25A-4A	Standard			2.1	36.0	25.4	45	<0.1	44.3	7.9	530	6.56	10	2.8	16.7	51	<0.1	0.6	0.4	157	0.31
STD OREAS25A-4A	Standard			2.1	30.4	23.2	39	<0.1	42.6	7.2	483	6.31	10	2.5	14.7	45	<0.1	0.4	0.4	158	0.28
STD OREAS25A-4A	Standard			2.1	35.3	24.1	39	<0.1	42.7	7.5	493	6.44	9	2.6	14.5	46	<0.1	0.5	0.4	160	0.32
STD OREAS25A-4A	Standard			2.0	29.8	23.1	43	<0.1	44.2	8.0	496	6.58	9	2.7	15.1	46	<0.1	0.5	0.3	160	0.31
STD OREAS25A-4A	Standard			2.3	31.1	22.9	42	<0.1	43.5	7.2	446	6.44	9	2.6	13.1	41	<0.1	0.6	0.4	158	0.25
STD OREAS45E	Standard			2.2	770.5	18.8	45	0.3	475.2	59.8	579	24.53	18	2.6	12.6	17	<0.1	1.1	0.3	344	0.06
STD OREAS45E	Standard			2.5	802.6	19.1	49	0.3	500.6	59.7	558	25.33	17	2.6	14.7	17	<0.1	0.9	0.3	340	0.07
STD OREAS45E	Standard			2.1	763.1	18.6	44	0.2	469.5	58.8	573	24.06	17	2.4	13.4	16	<0.1	1.3	0.3	330	0.06
STD OREAS45E	Standard			2.7	802.9	17.9	43	0.3	475.1	60.3	581	24.99	16	2.4	13.0	17	<0.1	0.8	0.4	327	0.07
STD OREAS45E	Standard			2.6	808.8	18.7	47	0.4	483.1	61.0	591	25.53	16	2.5	13.7	17	<0.1	0.7	0.3	333	0.07
STD OREAS45E	Standard			2.1	756.8	16.7	39	0.3	463.7	54.1	498	22.41	14	2.2	11.0	14	<0.1	0.9	0.3	334	0.06
STD OXC145	Standard		212																		
STD OXC145	Standard		202																		
STD OXC145	Standard		215																		
STD OXC145	Standard		209																		
STD OXC145	Standard		209																		
STD OXC145	Standard		210																		
STD OXH139	Standard		1352																		
STD OXH139	Standard		1317																		
STD OXH139	Standard		1354																		
STD OXH139	Standard		1338																		
STD OXH139	Standard		1235																		
STD OXH139	Standard		1291																		
STD OXC145 Expected			212																		
STD OXH139 Expected			1312																		
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
DUP N253795	QC	0.091	10.1	10	2.36	137	0.374	8.76	2.978	1.24	0.2	49.8	23	0.8	15.6	3.7	0.2	<1	22	12.7	2.3
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	22.9	113	0.33	150	0.962	9.74	0.144	0.50	1.8	150.3	50	3.8	10.9	19.3	1.4	<1	13	36.9	<0.1
STD OREAS25A-4A	Standard	0.053	22.2	111	0.31	153	0.891	9.76	0.136	0.48	2.0	144.4	49	4.3	10.3	18.2	1.3	1	14	38.0	<0.1
STD OREAS25A-4A	Standard	0.047	22.6	114	0.31	142	0.897	9.19	0.120	0.44	2.0	145.0	50	4.0	10.3	18.7	1.4	1	12	32.4	<0.1
STD OREAS25A-4A	Standard	0.044	20.8	109	0.32	136	0.900	8.59	0.125	0.45	1.8	157.6	53	3.7	11.0	18.8	1.4	<1	13	36.9	<0.1
STD OREAS25A-4A	Standard	0.051	22.5	116	0.32	141	0.863	8.87	0.126	0.46	1.9	146.9	48	4.3	9.6	17.6	1.3	1	13	32.5	<0.1
STD OREAS25A-4A	Standard	0.046	18.6	118	0.30	139	0.923	8.63	0.136	0.46	1.7	142.2	41	3.7	8.8	18.6	1.3	<1	11	33.8	<0.1
STD OREAS45E	Standard	0.036	8.3	924	0.16	260	0.554	7.10	0.059	0.34	1.1	102.0	19	1.4	6.9	6.0	0.5	<1	96	7.6	<0.1
STD OREAS45E	Standard	0.036	11.1	977	0.16	251	0.537	7.32	0.056	0.36	1.1	89.0	24	1.3	8.2	6.1	0.5	<1	99	7.4	<0.1
STD OREAS45E	Standard	0.037	11.9	1029	0.15	259	0.557	6.99	0.054	0.34	1.1	97.7	26	1.5	8.4	6.5	0.6	<1	92	8.3	<0.1
STD OREAS45E	Standard	0.035	11.2	1019	0.16	254	0.522	7.13	0.058	0.34	1.0	100.5	25	1.1	7.9	6.0	0.5	<1	94	6.4	<0.1
STD OREAS45E	Standard	0.036	11.5	1090	0.16	263	0.528	7.20	0.061	0.35	1.2	100.3	26	1.1	8.0	6.3	0.5	<1	99	7.7	<0.1
STD OREAS45E	Standard	0.032	8.1	942	0.13	228	0.491	6.79	0.056	0.30	1.0	98.6	18	1.1	6.4	5.7	0.5	<1	81	6.4	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047



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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP N253795	QC	30.1	1.3	<0.05	<0.005	4	0.6	0.5
Reference Materials								
STD OREAS25A-4A	Standard	61.0	4.2	0.12	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	59.0	4.4	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	61.5	4.0	0.06	<0.005	4	<0.5	<0.5
STD OREAS25A-4A	Standard	65.1	4.1	0.17	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	59.2	3.9	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	50.1	3.7	0.08	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	20.8	3.3	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.9	2.8	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.1	0.13	<0.005	5	<0.5	<0.5
STD OREAS45E	Standard	21.6	2.9	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.5	3.0	0.11	<0.005	7	<0.5	<0.5
STD OREAS45E	Standard	18.0	2.5	0.10	<0.005	3	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35



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		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.2	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	<0.1	0.4	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.03	
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank		<2																			
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																						
ROCK-VAN	Prep Blank		<2	1.0	4.7	2.8	31	<0.1	1.0	4.7	602	2.20	2	1.2	2.9	210	<0.1	<0.1	<0.1	36	1.62	
ROCK-VAN	Prep Blank		<2	1.1	5.0	3.0	35	<0.1	1.1	4.7	626	2.22	2	1.3	2.7	224	<0.1	<0.1	<0.1	37	1.64	



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QUALITY CONTROL REPORT

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		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.3	<0.1	
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
BLK	Blank																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	
Prep Wash																						
ROCK-VAN	Prep Blank	0.037	11.5	4	0.48	801	0.200	7.06	3.279	1.65	0.3	49.4	24	0.8	16.4	5.0	0.3	<1	7	3.4	<0.1	
ROCK-VAN	Prep Blank	0.039	12.8	3	0.48	826	0.206	7.32	3.341	1.73	0.3	53.0	27	0.7	17.2	5.4	0.4	<1	7	3.0	<0.1	



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 29, 2019

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QUALITY CONTROL REPORT

VAN18003781.1

		MA200 Rb ppm	MA200 Hf ppm	MA200 In ppm	MA200 Re ppm	MA200 Se ppm	MA200 Te ppm	MA200 Tl ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	33.9	1.8	0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	37.0	1.7	<0.05	0.005	<1	<0.5	<0.5



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Northisle Copper and Gold Inc.

15th floor - 1040 West Georgia Street

Vancouver British Columbia V6E 4H1 Canada

Submitted By: John McClintock

Receiving Lab: Canada-Vancouver

Received: December 28, 2018

Report Date: January 25, 2019

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CERTIFICATE OF ANALYSIS

VAN18003794.1

CLIENT JOB INFORMATION

Project: Pemberton
Shipment ID:
P.O. Number
Number of Samples: 106

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
RTRN-RJT Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Northisle Copper and Gold Inc.
15th floor - 1040 West Georgia Street
Vancouver British Columbia V6E 4H1
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	102	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SLBHP	4	Sort, label and box pulps			VAN
FA350-Au	106	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
EN002	106	Environmental disposal charge-Fire assay lead waste			VAN
MA200	106	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	106	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS



LILYBETH DE VERA-BOY
Fire Assay Spectroscopy Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. *** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Pemberton

Report Date: January 25, 2019

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CERTIFICATE OF ANALYSIS

VAN18003794.1

Method Analyte Unit MDL	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253829	Drill Core	8.15	7	5.4	62.6	15.9	32	0.3	5.9	19.9	349	6.21	<1	1.2	3.0	251	<0.1	0.3	0.2	172	1.24
N253830	Drill Core	8.75	4	8.5	44.4	8.5	33	<0.1	8.4	20.6	517	5.97	<1	1.3	2.9	272	<0.1	0.2	0.2	173	1.41
N253831	Drill Core	8.42	5	16.6	59.1	7.7	40	<0.1	7.4	21.5	848	5.79	<1	1.3	2.5	357	<0.1	0.2	0.3	179	1.31
N253832	Drill Core	8.82	4	5.1	32.9	5.2	42	<0.1	12.7	21.8	983	6.23	2	0.8	2.0	299	<0.1	0.2	0.1	202	0.86
N253833	Drill Core	8.07	4	3.3	33.0	6.4	52	<0.1	15.3	24.4	992	5.84	2	0.7	1.9	405	<0.1	0.1	0.1	194	0.83
N253834	Drill Core	8.37	3	3.5	69.5	4.0	49	<0.1	18.0	25.0	1016	6.09	<1	0.7	1.7	360	<0.1	0.1	0.1	216	0.76
N253835	Drill Core	7.77	3	25.9	51.4	12.9	99	<0.1	14.9	24.1	1297	5.44	<1	1.5	3.4	210	0.9	0.2	0.4	204	1.59
N253836	Drill Core	7.38	3	2.6	28.9	9.5	105	<0.1	6.4	15.5	1313	4.31	4	3.0	7.0	239	0.5	0.5	0.2	132	1.77
N253837	Drill Core	7.20	3	9.7	38.2	22.0	82	<0.1	3.7	9.9	582	3.44	3	4.0	6.9	111	0.5	0.4	0.5	67	0.74
N253838	Drill Core	4.23	5	15.0	27.5	18.8	56	<0.1	3.8	9.5	666	3.21	4	4.0	8.6	55	0.3	0.6	1.0	67	0.51
N253840	Drill Core	6.98	4	12.3	30.3	20.6	69	<0.1	3.4	8.7	646	3.49	1	3.9	7.2	58	0.5	0.5	0.6	64	0.46
N253841	Drill Core	7.39	10	17.2	42.2	10.8	45	0.2	3.9	9.9	496	3.11	12	3.5	7.3	106	0.2	0.8	0.4	65	1.93
N253842	Drill Core	8.12	8	3.2	71.5	17.0	80	0.1	6.6	15.0	1156	4.02	21	3.2	7.1	286	0.3	1.1	<0.1	117	3.27
N253843	Rock Pulp	0.06	181	413.4	2038.9	27.4	62	13.5	16.1	10.8	743	3.70	14	1.2	2.5	432	0.6	35.9	2.2	91	2.71
N253844	Drill Core	7.48	3	2.8	58.4	11.6	84	<0.1	6.4	14.3	1082	4.25	9	3.5	8.4	388	0.2	0.5	<0.1	119	2.94
N253845	Drill Core	7.92	6	2.5	58.5	10.8	71	<0.1	6.2	15.1	1081	4.10	12	3.7	8.7	356	0.1	0.6	<0.1	115	2.91
N253846	Drill Core	7.84	4	3.4	59.9	18.7	87	<0.1	6.3	14.2	1076	4.16	10	3.5	8.7	356	0.2	0.4	<0.1	116	2.89
N253847	Drill Core	8.95	2	2.8	60.4	12.4	71	<0.1	6.3	14.6	1113	4.19	5	3.4	8.3	358	0.1	0.3	<0.1	119	3.30
N253848	Rock	1.36	<2	<0.1	1.7	0.6	5	<0.1	1.6	0.5	147	0.11	<1	0.1	<0.1	90	<0.1	<0.1	<0.1	<1	35.70
N253849	Drill Core	9.26	2	2.4	56.6	10.9	66	<0.1	6.2	14.5	1165	4.27	8	3.5	8.5	372	0.2	0.3	<0.1	120	3.01
N253850	Drill Core	7.78	<2	2.1	63.9	11.0	68	<0.1	6.2	14.8	1069	4.17	5	3.4	8.1	379	<0.1	0.3	<0.1	116	2.87
N253851	Drill Core	8.31	<2	2.2	65.1	11.5	77	<0.1	5.9	14.9	1139	4.14	7	3.4	7.7	351	0.1	0.3	<0.1	114	3.15
N253852	Drill Core	9.16	<2	2.4	57.2	9.6	68	<0.1	6.1	13.6	957	4.07	4	3.3	8.1	365	0.1	0.2	<0.1	115	3.19
N253853	Drill Core	6.96	<2	1.8	54.5	10.6	73	<0.1	6.2	13.7	1053	3.91	5	3.1	7.6	327	0.2	0.3	<0.1	111	2.98
N253854	Rock	1.11	<2	0.1	2.3	0.7	5	<0.1	1.4	0.4	124	0.10	<1	0.3	<0.1	86	<0.1	<0.1	<0.1	<1	35.21
N253855	Drill Core	8.96	<2	2.0	63.0	10.0	71	<0.1	6.0	13.4	1059	3.96	3	3.4	8.1	327	0.1	0.2	<0.1	108	3.13
N253856	Drill Core	8.03	<2	2.4	60.3	8.7	77	<0.1	5.5	14.0	1075	4.01	3	3.3	8.0	343	0.3	0.2	<0.1	112	3.10
N253857	Drill Core	9.49	<2	2.3	57.1	9.7	80	<0.1	5.7	12.9	1064	3.98	3	3.6	8.3	360	0.2	0.2	<0.1	106	2.61
N253858	Drill Core	7.80	3	3.0	66.6	9.2	79	<0.1	5.6	13.0	1028	3.69	11	3.1	7.6	229	0.2	0.6	<0.1	103	4.24
N253859	Drill Core	7.75	4	2.9	56.3	8.9	62	<0.1	5.5	14.2	992	3.56	6	3.2	7.8	285	0.1	0.4	<0.1	94	5.96



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 25, 2019

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CERTIFICATE OF ANALYSIS

VAN18003794.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253829	Drill Core	0.089	11.6	6	0.37	20	0.311	8.89	2.658	3.39	0.8	21.0	26	2.3	18.7	3.1	0.2	<1	16	6.7	5.6
N253830	Drill Core	0.083	13.9	6	0.60	20	0.299	8.36	2.900	1.94	0.8	30.3	30	1.5	19.3	3.0	0.2	1	16	8.7	5.1
N253831	Drill Core	0.102	12.8	8	1.26	26	0.338	8.33	2.623	1.88	0.9	30.3	26	1.7	16.9	2.9	0.2	<1	15	13.9	3.9
N253832	Drill Core	0.099	9.2	10	2.33	25	0.207	8.23	1.537	2.72	0.6	20.7	22	1.4	15.1	1.4	<0.1	<1	17	27.2	3.1
N253833	Drill Core	0.095	8.8	16	2.28	26	0.181	8.00	1.454	2.59	0.3	19.3	21	1.6	15.9	1.0	<0.1	<1	20	28.2	3.5
N253834	Drill Core	0.094	6.5	23	2.76	24	0.219	7.87	1.559	2.75	0.2	17.5	16	1.4	13.0	1.3	<0.1	<1	22	27.3	4.0
N253835	Drill Core	0.095	12.4	21	2.49	22	0.411	8.15	2.469	1.88	0.6	43.7	27	3.4	21.3	4.3	0.3	1	24	18.6	4.5
N253836	Drill Core	0.078	19.0	10	1.51	34	0.379	8.04	2.600	2.96	0.7	95.2	39	2.0	26.9	7.1	0.5	<1	17	11.3	3.0
N253837	Drill Core	0.062	15.5	6	1.30	26	0.270	7.42	2.191	3.50	0.6	139.4	37	1.8	27.0	7.7	0.5	<1	12	11.8	3.6
N253838	Drill Core	0.069	19.7	6	1.24	28	0.271	7.47	1.716	3.90	0.8	146.8	45	2.9	27.7	7.9	0.5	1	13	11.5	3.3
N253840	Drill Core	0.063	17.0	5	1.09	21	0.280	7.06	1.920	4.07	1.2	133.9	40	2.2	27.6	7.6	0.5	1	12	10.4	3.7
N253841	Drill Core	0.056	16.9	5	0.86	34	0.282	6.98	0.869	3.17	1.3	112.8	37	2.2	25.9	7.8	0.5	<1	11	19.5	2.9
N253842	Drill Core	0.073	24.2	9	1.28	305	0.424	7.52	2.159	3.64	0.8	83.9	45	2.0	29.2	9.6	0.7	<1	16	14.9	0.6
N253843	Rock Pulp	0.058	10.2	21	0.87	714	0.228	7.20	2.440	1.85	1.6	10.3	21	3.3	12.7	2.6	0.2	<1	10	8.0	0.3
N253844	Drill Core	0.074	25.1	9	1.24	1048	0.425	8.07	2.947	3.76	0.8	79.5	48	1.8	30.4	10.0	0.7	1	16	7.5	0.3
N253845	Drill Core	0.076	26.1	10	1.23	818	0.407	7.89	2.970	3.64	0.7	79.0	49	1.7	30.0	9.9	0.7	<1	16	8.7	0.4
N253846	Drill Core	0.077	24.7	10	1.24	1013	0.407	7.94	2.790	3.24	0.7	88.4	47	1.7	30.4	10.1	0.7	1	16	8.7	0.3
N253847	Drill Core	0.073	22.9	9	1.23	1040	0.418	8.05	2.924	3.30	0.6	92.0	44	1.6	29.9	10.2	0.7	1	16	5.4	0.3
N253848	Rock	0.008	1.6	1	2.31	17	0.007	0.05	0.031	0.02	<0.1	1.6	1	<0.1	2.6	0.2	<0.1	<1	<1	1.0	<0.1
N253849	Drill Core	0.076	23.5	8	1.26	1033	0.433	8.07	3.035	3.45	0.6	94.3	46	1.6	30.7	10.4	0.7	1	16	7.5	0.3
N253850	Drill Core	0.078	22.9	9	1.27	1119	0.429	7.96	3.003	3.44	0.7	94.8	46	1.7	29.2	10.5	0.7	<1	16	7.3	0.3
N253851	Drill Core	0.077	22.5	9	1.24	1067	0.424	7.68	2.981	3.12	0.6	92.7	46	1.7	29.7	10.6	0.7	1	16	6.1	0.3
N253852	Drill Core	0.072	21.8	8	1.19	930	0.413	7.82	2.960	3.15	0.6	89.0	44	1.6	28.8	10.1	0.7	<1	16	5.3	0.2
N253853	Drill Core	0.074	22.0	9	1.17	933	0.403	7.58	2.903	2.84	0.6	83.7	44	1.5	27.5	9.6	0.6	<1	16	6.4	0.3
N253854	Rock	0.007	1.6	<1	1.95	15	0.006	0.04	0.025	0.02	<0.1	1.4	1	0.1	2.4	0.2	<0.1	<1	<1	1.3	<0.1
N253855	Drill Core	0.072	22.3	9	1.14	979	0.405	7.47	2.805	2.92	0.6	78.7	43	1.8	29.3	10.1	0.7	1	15	6.7	<0.1
N253856	Drill Core	0.071	23.1	9	1.16	1055	0.425	7.78	2.953	2.89	0.6	78.9	46	1.6	30.6	10.6	0.7	<1	16	4.4	<0.1
N253857	Drill Core	0.072	24.3	9	1.13	1058	0.394	7.79	3.022	3.25	0.6	75.3	47	1.6	30.0	10.8	0.7	<1	16	4.4	<0.1
N253858	Drill Core	0.065	21.8	8	1.12	288	0.388	7.14	2.417	3.18	0.8	70.2	43	1.6	28.2	9.5	0.6	1	15	8.1	0.7
N253859	Drill Core	0.063	23.4	8	1.06	488	0.376	7.35	2.529	3.09	0.6	72.7	44	1.6	28.0	9.9	0.6	<1	14	10.2	0.5



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CERTIFICATE OF ANALYSIS

VAN18003794.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253829	Drill Core	90.3	0.6	<0.05	0.008	14	0.8	1.0
N253830	Drill Core	69.0	1.0	<0.05	0.014	10	0.6	0.8
N253831	Drill Core	68.1	0.9	<0.05	0.010	7	0.6	0.8
N253832	Drill Core	71.0	0.6	<0.05	<0.005	6	<0.5	1.0
N253833	Drill Core	75.1	0.6	<0.05	0.008	7	0.7	1.1
N253834	Drill Core	72.5	0.6	<0.05	0.017	8	<0.5	1.0
N253835	Drill Core	76.0	1.4	0.06	0.336	13	1.1	0.8
N253836	Drill Core	69.6	3.1	<0.05	0.007	7	0.8	0.7
N253837	Drill Core	101.5	4.4	<0.05	0.047	12	1.2	0.8
N253838	Drill Core	114.8	4.5	<0.05	0.053	11	1.2	1.1
N253840	Drill Core	113.1	3.9	<0.05	0.033	13	1.1	1.0
N253841	Drill Core	97.5	3.4	<0.05	0.068	8	0.9	0.9
N253842	Drill Core	84.5	2.6	<0.05	<0.005	1	0.8	0.7
N253843	Rock Pulp	39.4	0.6	0.08	0.410	<1	1.2	<0.5
N253844	Drill Core	90.6	2.3	0.05	<0.005	<1	0.7	<0.5
N253845	Drill Core	86.1	2.3	<0.05	<0.005	<1	0.7	<0.5
N253846	Drill Core	91.4	2.7	<0.05	<0.005	<1	<0.5	<0.5
N253847	Drill Core	85.7	2.7	0.06	<0.005	<1	<0.5	<0.5
N253848	Rock	0.3	<0.1	<0.05	<0.005	<1	4.4	<0.5
N253849	Drill Core	95.3	3.0	0.06	<0.005	<1	<0.5	<0.5
N253850	Drill Core	92.7	2.9	<0.05	<0.005	<1	<0.5	<0.5
N253851	Drill Core	86.7	2.9	<0.05	<0.005	<1	0.5	<0.5
N253852	Drill Core	84.3	2.8	<0.05	<0.005	<1	<0.5	<0.5
N253853	Drill Core	75.5	2.5	0.06	<0.005	<1	<0.5	<0.5
N253854	Rock	0.4	<0.1	<0.05	<0.005	<1	3.0	<0.5
N253855	Drill Core	89.6	2.5	0.08	<0.005	<1	<0.5	<0.5
N253856	Drill Core	94.8	2.5	0.06	<0.005	<1	<0.5	<0.5
N253857	Drill Core	97.4	2.4	0.07	<0.005	<1	<0.5	<0.5
N253858	Drill Core	83.3	2.3	0.06	<0.005	2	0.7	<0.5
N253859	Drill Core	81.7	2.4	<0.05	<0.005	<1	0.7	0.5



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Project: Pemberton

Report Date: January 25, 2019

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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253860	Drill Core	7.52	3	1.8	44.1	9.3	63	<0.1	5.8	13.4	1087	3.85	5	2.8	7.3	217	0.1	0.3	<0.1	110	3.97
N253861	Rock Pulp	0.06	601	343.3	4033.3	29.2	114	15.7	25.9	69.7	1508	4.80	1904	2.3	1.5	477	1.2	45.1	13.1	61	6.09
N253862	Drill Core	7.86	3	2.2	50.4	8.6	79	<0.1	5.5	13.2	1015	3.86	6	3.2	7.7	313	0.2	0.3	<0.1	102	3.62
N253863	Drill Core	7.73	2	3.1	57.9	8.0	64	<0.1	5.5	13.6	994	4.04	5	3.2	7.9	296	<0.1	0.3	<0.1	103	3.34
N253864	Drill Core	8.16	4	2.3	54.3	8.0	55	0.1	4.9	12.6	848	3.63	10	2.6	6.0	209	0.1	0.3	<0.1	96	4.09
N253865	Drill Core	8.12	3	2.8	47.9	7.9	68	0.1	4.6	12.2	909	3.57	10	2.8	6.8	181	0.2	0.3	<0.1	95	4.94
N253866	Drill Core	4.25	7	3.8	61.0	8.0	66	<0.1	5.5	12.7	1069	4.16	5	3.3	7.8	284	0.1	0.2	<0.1	108	2.88
N253868	Drill Core	8.61	<2	4.1	63.4	8.1	76	<0.1	5.4	12.5	1055	4.18	7	3.2	7.9	280	0.2	0.2	<0.1	105	3.22
N253869	Drill Core	7.25	3	4.1	50.2	6.6	59	<0.1	4.6	12.4	979	3.82	10	2.9	6.9	183	0.2	0.3	<0.1	99	3.82
N253870	Drill Core	7.60	<2	3.4	46.2	7.2	67	<0.1	5.3	11.1	1025	3.82	8	2.9	7.1	202	<0.1	0.2	<0.1	98	3.62
N253871	Drill Core	9.09	<2	2.5	43.6	7.2	85	<0.1	5.2	12.3	1054	3.96	6	2.8	7.2	298	0.2	0.1	<0.1	104	2.91
N253872	Drill Core	3.55	5	2.6	48.6	7.5	68	<0.1	4.7	11.9	904	3.63	9	2.9	6.5	240	<0.1	0.3	<0.1	93	4.32
N253874	Drill Core	8.27	<2	2.9	51.4	7.9	59	<0.1	5.3	11.2	809	3.43	9	2.6	6.5	221	0.1	0.2	<0.1	89	4.05
N253875	Drill Core	8.58	<2	3.2	48.9	10.6	67	<0.1	5.6	11.8	948	3.80	10	2.5	6.0	305	0.2	0.4	<0.1	108	3.03
N253876	Drill Core	7.90	4	5.3	45.8	11.3	77	0.1	5.1	11.8	932	3.63	14	2.6	6.2	261	<0.1	0.4	<0.1	98	3.92
N253877	Rock Pulp	0.06	206	387.7	1929.2	24.6	61	13.2	15.3	9.4	756	3.70	13	1.2	2.0	444	0.4	31.8	1.7	86	2.90
N253878	Drill Core	8.06	4	4.1	49.0	16.1	73	0.2	4.7	10.8	957	3.60	13	2.7	6.4	227	0.2	0.4	<0.1	96	2.47
N253879	Drill Core	8.00	9	21.8	1000.9	261.9	2525	1.5	3.5	7.3	231	2.33	1	1.4	3.6	53	12.0	0.6	1.0	70	1.36
N253880	Drill Core	9.72	<2	3.4	47.8	7.6	72	0.1	5.9	13.3	985	3.95	8	2.7	6.8	248	<0.1	0.4	<0.1	105	3.00
N253881	Drill Core	8.34	2	3.3	54.2	52.6	386	0.2	5.4	12.1	1017	3.79	9	2.8	6.8	264	1.5	0.4	<0.1	103	3.16
N253882	Drill Core	8.06	2	3.0	54.3	5.0	56	<0.1	5.2	11.7	932	3.82	7	2.7	6.5	307	<0.1	0.3	<0.1	104	4.20
N253883	Rock	1.04	<2	0.1	1.8	0.7	6	<0.1	0.3	0.6	109	0.13	4	0.1	<0.1	77	<0.1	<0.1	<0.1	1	33.02
N253884	Drill Core	8.67	2	4.5	61.2	10.0	71	<0.1	6.6	13.6	1134	4.05	10	2.8	6.8	275	0.1	0.4	<0.1	110	2.97
N253885	Drill Core	7.96	<2	3.5	56.3	9.3	81	<0.1	6.3	13.6	1138	4.18	6	2.8	7.3	268	0.1	0.3	<0.1	115	3.15
N253886	Drill Core	9.33	3	6.5	65.0	21.3	297	0.2	6.1	13.8	1180	4.23	7	2.8	7.0	241	1.3	0.3	0.2	112	3.03
N253887	Drill Core	8.97	2	3.5	51.6	7.0	79	<0.1	6.2	13.8	1089	4.20	9	3.0	7.7	324	<0.1	0.3	<0.1	116	3.22
N253888	Drill Core	7.26	3	2.9	50.1	7.7	72	<0.1	5.7	13.2	1024	4.03	7	2.7	6.3	333	0.3	0.3	<0.1	110	3.31
N253889	Rock	1.21	2	<0.1	5.4	0.4	4	<0.1	0.6	0.5	115	0.14	<1	0.1	<0.1	78	<0.1	<0.1	<0.1	2	32.68
N253890	Drill Core	7.62	<2	3.5	68.7	6.3	63	<0.1	6.2	14.7	981	4.30	6	2.9	6.9	417	0.1	0.3	<0.1	116	3.14
N253891	Drill Core	9.04	3	5.0	63.3	8.0	65	<0.1	5.9	14.0	1044	4.11	14	2.9	7.3	286	<0.1	0.4	<0.1	112	3.29



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	1	0.1	0.1
N253860	Drill Core	0.072	19.9	9	1.16	793	0.397	7.24	2.348	2.55	0.6	73.3	39	1.6	27.5	9.8	0.6	1	15	7.3	0.2	
N253861	Rock Pulp	0.066	15.7	30	0.77	384	0.142	6.05	1.717	1.69	4.5	21.9	25	3.4	9.1	1.9	0.1	<1	6	11.8	0.6	
N253862	Drill Core	0.069	23.2	7	1.17	955	0.356	8.17	2.707	2.87	0.6	84.6	50	1.5	28.3	10.6	0.7	<1	15	8.8	0.2	
N253863	Drill Core	0.070	22.8	7	1.18	1021	0.372	7.95	2.580	3.15	0.7	106.5	50	1.5	28.5	10.3	0.7	1	15	5.6	<0.1	
N253864	Drill Core	0.068	18.4	6	1.10	173	0.320	7.74	2.162	2.39	0.6	83.3	40	1.3	24.0	8.6	0.6	<1	14	14.1	0.7	
N253865	Drill Core	0.066	18.5	6	1.01	570	0.331	7.68	1.928	2.30	0.7	77.5	40	1.2	24.5	9.5	0.6	1	13	10.9	0.6	
N253866	Drill Core	0.072	22.7	7	1.21	1063	0.388	8.32	2.749	3.32	0.7	88.3	49	1.2	29.2	10.4	0.7	1	15	8.2	<0.1	
N253868	Drill Core	0.071	22.2	6	1.17	1003	0.385	8.02	2.614	3.11	0.8	93.8	47	1.3	28.2	10.3	0.7	<1	16	8.3	0.1	
N253869	Drill Core	0.068	19.7	6	1.12	761	0.346	7.54	2.350	2.71	0.7	88.5	43	0.9	25.6	9.5	0.6	1	14	7.6	0.4	
N253870	Drill Core	0.072	20.2	6	1.12	831	0.360	7.66	2.258	2.75	0.5	90.8	43	1.0	26.4	9.9	0.7	<1	14	8.2	0.1	
N253871	Drill Core	0.066	19.3	6	1.19	990	0.365	8.33	2.608	3.13	0.5	91.5	42	1.0	25.9	9.4	0.6	1	15	8.3	<0.1	
N253872	Drill Core	0.064	20.5	6	1.08	815	0.335	7.39	2.403	2.82	0.6	81.2	42	1.1	24.9	8.7	0.6	<1	14	13.5	0.3	
N253874	Drill Core	0.064	18.3	5	1.03	810	0.318	7.22	2.316	2.57	0.5	83.6	39	1.1	23.9	8.9	0.6	<1	12	16.6	0.2	
N253875	Drill Core	0.063	19.1	8	1.22	954	0.344	7.60	2.318	2.83	0.6	79.2	40	1.4	24.3	8.9	0.5	1	15	11.8	0.3	
N253876	Drill Core	0.060	18.6	7	1.11	277	0.340	7.39	2.165	2.52	0.5	89.1	38	1.1	24.6	8.7	0.6	<1	14	11.0	0.6	
N253877	Rock Pulp	0.055	10.2	18	0.88	704	0.195	7.36	2.235	1.94	1.6	9.6	22	2.9	11.4	2.5	0.1	<1	10	8.4	0.3	
N253878	Drill Core	0.069	18.8	7	1.09	144	0.336	7.51	2.058	2.95	0.6	88.6	40	1.0	24.3	9.0	0.6	<1	14	11.0	0.8	
N253879	Drill Core	0.044	9.2	7	0.36	34	0.217	5.15	0.082	2.04	0.7	59.5	21	0.7	11.7	5.1	0.3	<1	10	18.4	2.1	
N253880	Drill Core	0.073	19.6	8	1.26	359	0.366	7.73	2.164	2.86	0.5	81.5	41	1.2	26.3	9.6	0.6	<1	16	9.1	0.5	
N253881	Drill Core	0.069	20.3	7	1.21	924	0.355	7.55	2.312	2.70	0.6	83.1	43	1.3	25.7	9.3	0.6	<1	15	8.7	0.3	
N253882	Drill Core	0.068	19.1	7	1.15	881	0.343	7.66	2.487	2.75	0.5	80.0	40	1.1	24.3	9.0	0.6	<1	15	8.4	0.1	
N253883	Rock	0.008	1.5	1	1.99	22	0.008	0.12	0.035	0.03	<0.1	1.9	1	<0.1	2.2	0.2	<0.1	<1	<1	1.6	<0.1	
N253884	Drill Core	0.070	18.7	8	1.32	176	0.385	7.76	2.417	2.72	0.5	89.4	42	1.4	26.8	10.6	0.7	1	16	9.3	0.5	
N253885	Drill Core	0.075	20.3	8	1.33	964	0.395	7.80	2.329	2.75	0.5	90.9	43	1.4	27.4	10.1	0.7	1	16	7.9	0.2	
N253886	Drill Core	0.069	19.4	9	1.39	275	0.386	7.70	2.094	2.61	0.5	83.7	42	1.4	26.1	9.9	0.6	<1	15	10.5	0.6	
N253887	Drill Core	0.077	20.5	8	1.28	963	0.396	7.99	2.510	2.82	0.5	93.8	44	1.3	26.3	10.0	0.7	1	17	8.1	0.2	
N253888	Drill Core	0.069	16.7	7	1.26	938	0.378	8.13	2.426	2.73	0.5	88.5	37	1.3	24.7	9.7	0.6	1	15	8.4	0.1	
N253889	Rock	0.007	1.5	1	1.85	16	0.007	0.07	0.027	0.02	<0.1	1.5	<1	<0.1	2.0	0.2	<0.1	<1	<1	1.1	<0.1	
N253890	Drill Core	0.072	21.4	9	1.33	1108	0.406	9.11	2.720	3.38	0.6	90.7	47	1.6	28.9	10.8	0.7	1	16	7.9	<0.1	
N253891	Drill Core	0.069	22.1	8	1.30	1040	0.386	8.00	2.502	2.82	0.7	99.2	45	1.3	27.1	10.2	0.7	1	16	9.7	0.3	



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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253860	Drill Core	62.2	2.1	0.11	<0.005	1	0.6	<0.5
N253861	Rock Pulp	38.5	0.7	0.20	0.380	4	2.6	<0.5
N253862	Drill Core	88.3	2.6	<0.05	<0.005	<1	0.6	<0.5
N253863	Drill Core	96.4	2.9	0.05	<0.005	<1	<0.5	<0.5
N253864	Drill Core	65.4	2.2	<0.05	<0.005	2	<0.5	<0.5
N253865	Drill Core	63.6	2.2	<0.05	<0.005	<1	0.5	<0.5
N253866	Drill Core	102.4	2.5	<0.05	<0.005	<1	<0.5	<0.5
N253868	Drill Core	99.8	2.7	0.05	<0.005	<1	<0.5	<0.5
N253869	Drill Core	74.4	2.4	<0.05	<0.005	<1	<0.5	<0.5
N253870	Drill Core	78.7	2.6	0.05	<0.005	<1	<0.5	<0.5
N253871	Drill Core	89.4	2.5	0.05	<0.005	<1	<0.5	<0.5
N253872	Drill Core	80.0	2.3	<0.05	<0.005	<1	<0.5	<0.5
N253874	Drill Core	71.4	2.3	<0.05	<0.005	<1	<0.5	<0.5
N253875	Drill Core	80.6	2.3	0.06	<0.005	<1	<0.5	<0.5
N253876	Drill Core	72.3	2.4	<0.05	<0.005	2	<0.5	<0.5
N253877	Rock Pulp	39.1	0.5	0.07	0.377	<1	1.0	<0.5
N253878	Drill Core	87.7	2.4	<0.05	<0.005	3	0.6	0.6
N253879	Drill Core	71.7	1.7	0.07	0.008	22	1.5	0.7
N253880	Drill Core	81.2	2.4	<0.05	<0.005	1	<0.5	<0.5
N253881	Drill Core	72.4	2.2	0.07	<0.005	<1	0.5	<0.5
N253882	Drill Core	72.6	2.3	0.05	<0.005	<1	<0.5	<0.5
N253883	Rock	0.7	<0.1	<0.05	<0.005	<1	5.0	<0.5
N253884	Drill Core	73.0	2.4	0.05	<0.005	2	0.6	<0.5
N253885	Drill Core	73.6	2.6	<0.05	<0.005	<1	<0.5	<0.5
N253886	Drill Core	72.3	2.3	<0.05	<0.005	2	0.6	<0.5
N253887	Drill Core	75.5	2.7	<0.05	<0.005	<1	0.5	<0.5
N253888	Drill Core	77.8	2.5	<0.05	<0.005	<1	<0.5	<0.5
N253889	Rock	0.2	<0.1	<0.05	<0.005	<1	5.5	<0.5
N253890	Drill Core	97.0	2.6	0.08	0.006	<1	<0.5	<0.5
N253891	Drill Core	82.3	2.8	<0.05	<0.005	1	0.5	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253892	Drill Core	9.09	4	3.9	44.7	13.0	69	<0.1	5.8	12.4	1072	3.79	12	2.6	6.5	204	0.1	0.3	<0.1	106	4.78
N253893	Drill Core	6.93	2	3.1	52.1	7.7	108	<0.1	4.6	10.1	845	2.97	13	2.1	5.8	212	0.5	0.4	<0.1	81	6.65
N253894	Drill Core	7.69	3	4.7	71.5	13.9	87	<0.1	4.9	11.0	957	3.44	11	2.6	6.4	329	0.3	0.5	<0.1	90	4.73
N253895	Rock Pulp	0.06	600	339.7	3888.9	27.4	107	14.7	26.5	71.6	1476	4.84	1936	2.2	1.4	457	1.1	41.7	14.4	59	6.05
N253896	Drill Core	9.39	3	4.9	62.7	9.8	75	<0.1	6.0	13.2	1048	3.97	8	3.0	7.3	406	0.2	0.4	<0.1	108	3.28
N253897	Drill Core	7.92	2	2.7	58.6	6.8	62	<0.1	6.8	14.2	951	4.09	5	2.8	7.0	374	0.1	0.2	<0.1	109	3.42
N253898	Drill Core	8.01	<2	4.2	57.5	7.8	66	<0.1	6.0	13.1	952	4.13	3	2.8	6.4	343	<0.1	0.2	0.1	114	3.19
N253899	Drill Core	8.03	3	4.4	41.2	6.6	38	<0.1	3.2	7.5	503	2.66	7	4.2	8.4	241	<0.1	0.4	0.2	65	2.09
N253900	Drill Core	8.08	<2	3.8	15.7	6.1	26	<0.1	1.7	4.0	231	1.82	5	6.8	9.5	202	<0.1	0.2	0.2	32	1.48
N253901	Drill Core	3.62	<2	2.6	30.1	4.2	16	<0.1	1.7	3.8	203	1.70	9	10.3	9.9	214	<0.1	0.3	<0.1	33	1.86
N253903	Drill Core	7.31	2	3.5	13.4	10.7	49	<0.1	1.5	3.4	185	1.68	7	8.8	9.3	193	0.2	0.3	<0.1	37	1.70
N253904	Drill Core	7.93	2	4.1	23.2	5.9	33	<0.1	2.6	5.9	417	2.08	9	5.2	8.8	153	0.1	0.3	0.1	55	2.41
N253905	Drill Core	9.10	<2	3.1	48.9	6.2	53	<0.1	5.9	13.1	956	3.83	6	2.9	6.9	262	<0.1	0.2	<0.1	110	3.31
N253906	Drill Core	8.89	<2	2.8	51.2	6.5	51	<0.1	5.0	12.2	912	3.65	7	2.4	6.0	205	<0.1	0.2	0.2	106	3.66
N253907	Drill Core	3.91	<2	2.6	50.1	5.5	39	<0.1	5.5	11.5	802	3.79	11	2.6	6.3	190	<0.1	0.4	<0.1	107	3.58
N253908	Drill Core	3.72	2	2.4	50.9	5.8	42	<0.1	5.0	12.4	818	3.83	10	2.3	6.1	190	<0.1	0.3	<0.1	111	3.30
N253909	Drill Core	5.59	3	1.4	14.0	8.0	29	<0.1	5.4	12.5	450	3.67	7	2.5	6.0	215	<0.1	0.6	0.4	112	2.71
N253910	Drill Core	8.88	<2	2.0	19.1	6.8	29	<0.1	4.9	9.0	469	3.39	6	2.4	5.7	246	<0.1	0.6	0.3	103	2.56
N253911	Drill Core	3.18	2	2.5	17.9	7.2	35	<0.1	6.6	10.9	457	3.72	6	2.7	6.9	287	<0.1	0.7	0.3	110	2.58
N253912	Drill Core	0.92	<2	2.3	37.7	7.5	32	<0.1	5.8	11.1	494	4.01	2	2.7	6.4	318	<0.1	0.4	0.5	111	2.03
N253913	Drill Core	3.23	13	3.9	42.4	8.1	43	0.3	6.0	10.2	559	3.97	3	2.7	6.8	303	<0.1	0.4	0.5	109	2.03
N253678	Drill Core	3.89	3	2.0	42.8	9.5	30	<0.1	5.0	13.5	109	4.55	17	1.0	2.5	116	0.1	0.7	1.4	94	2.71
N253690	Drill Core	3.73	3	0.6	13.7	15.4	96	<0.1	1.7	6.8	758	3.46	<1	1.4	2.4	50	0.4	1.0	0.6	65	0.36
N253703	Drill Core	3.55	3	2.9	22.6	20.6	67	<0.1	2.4	8.3	171	2.72	<1	0.9	2.1	53	0.3	0.6	0.4	129	0.28
N253713	Drill Core	3.55	3	3.2	136.9	8.4	58	<0.1	17.0	18.9	1458	7.18	2	0.9	1.2	136	0.1	9.0	0.6	187	0.65
N253731	Drill Core	4.01	9	8.4	37.3	18.3	81	0.9	14.0	32.3	2069	7.81	<1	0.5	0.8	148	0.3	0.5	0.7	290	1.64
N253758	Drill Core	3.88	3	2.9	28.6	4.3	29	<0.1	25.3	19.8	720	6.00	<1	0.3	0.9	172	0.1	0.2	0.7	196	0.60
N253765	Drill Core	3.78	4	1.6	26.5	4.3	35	<0.1	15.4	18.2	767	5.01	<1	0.7	1.5	107	<0.1	0.2	0.7	169	0.57
N253790	Drill Core	3.82	6	1.2	44.6	4.5	50	<0.1	10.2	20.1	1979	5.53	4	0.8	1.9	577	<0.1	0.2	0.2	204	2.39
N253797	Drill Core	4.38	5	0.8	42.5	4.7	60	<0.1	10.7	16.9	2137	5.31	5	0.7	1.7	561	<0.1	0.3	0.3	201	2.68



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Project: Pemberton

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Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	%
	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.01	0.001	0.01	0.01	1	0.1	0.1	1	0.1	0.1	1	1	0.1	0.1
N253892	Drill Core	0.063	18.1	8	1.21	848	0.375	7.14	2.309	2.35	0.5	84.5	38	1.1	23.6	9.1	0.6	<1	15	12.7	0.3
N253893	Drill Core	0.053	15.9	6	0.90	676	0.295	6.16	1.987	2.06	0.4	67.1	34	1.1	19.9	7.8	0.5	<1	12	24.4	0.3
N253894	Drill Core	0.059	18.1	7	1.01	887	0.318	6.58	2.000	2.69	0.7	79.4	38	1.4	23.0	9.3	0.6	<1	13	12.8	0.3
N253895	Rock Pulp	0.057	14.8	33	0.77	368	0.145	5.85	1.699	1.54	3.9	20.8	23	3.1	8.1	1.7	<0.1	<1	6	12.5	0.6
N253896	Drill Core	0.069	21.0	8	1.21	1081	0.381	8.10	2.607	2.73	0.7	113.8	43	1.4	26.4	10.3	0.7	<1	15	7.7	0.2
N253897	Drill Core	0.071	19.2	9	1.23	915	0.398	8.27	2.625	2.67	0.5	107.1	41	1.6	25.8	10.4	0.7	1	16	6.8	<0.1
N253898	Drill Core	0.068	17.8	8	1.25	900	0.367	7.51	2.707	2.49	0.8	106.7	39	1.4	25.1	10.0	0.7	<1	14	5.5	<0.1
N253899	Drill Core	0.042	12.8	5	0.78	886	0.245	6.66	2.344	2.65	0.5	69.7	25	0.9	16.2	8.9	0.6	<1	8	5.4	0.2
N253900	Drill Core	0.026	12.1	3	0.46	965	0.154	6.27	2.227	2.64	0.3	45.0	21	0.6	12.1	8.8	0.6	<1	5	6.9	0.3
N253901	Drill Core	0.025	15.4	3	0.46	938	0.153	6.09	2.341	2.79	0.2	38.6	24	0.5	8.9	8.3	0.6	<1	4	6.8	0.1
N253903	Drill Core	0.024	12.7	3	0.50	967	0.150	6.30	2.326	2.79	0.3	38.8	21	0.5	9.5	8.8	0.7	<1	5	7.5	0.3
N253904	Drill Core	0.034	25.3	4	0.70	736	0.204	6.60	2.464	2.73	0.3	54.8	43	0.7	12.5	8.3	0.6	<1	7	7.5	0.5
N253905	Drill Core	0.070	20.0	8	1.16	895	0.363	7.29	2.349	2.42	0.5	107.7	42	1.2	26.4	9.9	0.7	<1	14	9.1	<0.1
N253906	Drill Core	0.060	16.1	7	1.18	735	0.356	7.13	2.196	2.24	0.6	94.1	35	1.2	22.6	8.9	0.6	<1	14	8.1	0.1
N253907	Drill Core	0.062	18.8	7	1.27	657	0.349	7.56	2.416	2.30	0.5	99.7	38	1.1	24.0	8.7	0.5	<1	15	9.0	0.3
N253908	Drill Core	0.064	16.2	8	1.26	734	0.365	7.18	2.482	2.28	0.5	101.2	36	1.2	23.6	9.0	0.6	1	14	8.4	0.2
N253909	Drill Core	0.068	18.2	8	1.27	117	0.342	7.39	2.983	2.42	0.8	107.8	38	2.0	24.2	8.8	0.5	<1	14	6.7	1.0
N253910	Drill Core	0.058	17.2	7	1.20	368	0.337	7.32	2.689	2.50	0.6	100.8	35	2.1	22.2	8.4	0.5	1	13	5.2	0.5
N253911	Drill Core	0.067	21.7	9	1.27	946	0.368	7.40	2.563	2.46	0.6	104.2	44	2.8	26.7	9.3	0.6	1	14	7.5	0.2
N253912	Drill Core	0.064	18.0	9	1.25	188	0.345	7.43	2.472	2.72	0.7	97.2	40	1.8	24.5	8.8	0.6	<1	14	5.9	0.7
N253913	Drill Core	0.073	18.7	13	1.23	256	0.360	7.56	2.614	2.72	2.5	97.0	40	1.8	25.5	9.3	0.6	<1	15	6.0	0.6
N253678	Drill Core	0.065	10.5	3	1.15	16	0.111	7.59	0.180	1.55	0.1	71.7	25	4.2	10.3	2.0	0.1	<1	14	5.9	7.0
N253690	Drill Core	0.102	8.4	2	1.86	20	0.116	7.48	0.917	1.82	0.2	95.7	22	0.5	10.3	2.0	0.1	1	8	13.4	3.7
N253703	Drill Core	0.074	7.0	6	0.91	23	0.152	8.51	0.480	2.50	0.5	45.7	17	2.1	6.7	2.1	0.2	<1	7	10.0	3.0
N253713	Drill Core	0.084	4.2	14	2.33	19	0.097	8.16	0.615	1.14	0.1	53.8	11	0.8	7.7	0.9	<0.1	<1	19	17.6	7.6
N253731	Drill Core	0.079	4.5	9	2.29	22	0.463	9.05	0.677	2.98	0.9	29.0	13	1.5	14.9	2.9	0.2	<1	23	18.0	7.8
N253758	Drill Core	0.089	6.3	15	2.22	18	0.155	8.80	1.180	1.05	0.1	10.5	17	0.9	8.9	1.0	<0.1	<1	20	13.4	5.5
N253765	Drill Core	0.078	5.1	13	2.15	18	0.117	8.19	0.703	1.74	0.2	37.9	14	0.7	11.3	1.0	<0.1	<1	20	11.1	5.5
N253790	Drill Core	0.082	8.9	9	2.51	369	0.387	8.53	2.922	0.80	0.3	47.4	22	0.6	14.0	3.9	0.2	<1	20	15.5	1.7
N253797	Drill Core	0.077	9.4	9	2.38	414	0.403	8.48	2.892	1.20	0.3	46.2	22	0.7	15.4	3.7	0.2	<1	22	13.1	1.5



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Project: Pemberton

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Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253892	Drill Core	57.8	2.3	<0.05	<0.005	<1	<0.5	<0.5
N253893	Drill Core	55.5	1.9	<0.05	<0.005	<1	1.0	<0.5
N253894	Drill Core	73.5	2.4	0.08	<0.005	<1	0.6	<0.5
N253895	Rock Pulp	38.3	0.6	0.17	0.355	4	3.6	<0.5
N253896	Drill Core	88.8	3.4	0.06	<0.005	<1	<0.5	<0.5
N253897	Drill Core	84.0	3.1	0.07	<0.005	<1	<0.5	<0.5
N253898	Drill Core	76.9	3.2	0.06	<0.005	<1	<0.5	<0.5
N253899	Drill Core	79.9	2.2	<0.05	<0.005	<1	<0.5	<0.5
N253900	Drill Core	83.9	1.6	<0.05	<0.005	<1	<0.5	0.5
N253901	Drill Core	86.1	1.4	<0.05	<0.005	<1	<0.5	0.5
N253903	Drill Core	87.2	1.5	<0.05	<0.005	<1	<0.5	<0.5
N253904	Drill Core	70.5	1.7	<0.05	<0.005	1	<0.5	<0.5
N253905	Drill Core	82.5	3.0	0.06	<0.005	<1	<0.5	<0.5
N253906	Drill Core	65.4	2.7	0.05	<0.005	<1	<0.5	<0.5
N253907	Drill Core	58.8	2.7	0.07	<0.005	<1	<0.5	<0.5
N253908	Drill Core	64.8	2.7	0.08	<0.005	<1	<0.5	<0.5
N253909	Drill Core	64.3	3.1	0.05	<0.005	2	0.6	<0.5
N253910	Drill Core	66.3	2.8	<0.05	<0.005	2	0.5	<0.5
N253911	Drill Core	75.2	3.1	<0.05	<0.005	<1	0.7	0.6
N253912	Drill Core	84.2	2.8	<0.05	<0.005	2	0.6	0.5
N253913	Drill Core	82.9	2.9	<0.05	<0.005	2	0.7	0.5
N253678	Drill Core	49.1	2.0	0.10	0.011	13	1.1	1.1
N253690	Drill Core	41.1	2.5	<0.05	<0.005	13	<0.5	1.4
N253703	Drill Core	58.4	1.1	0.07	0.010	16	<0.5	1.8
N253713	Drill Core	14.7	1.4	<0.05	<0.005	23	3.1	0.8
N253731	Drill Core	94.2	0.9	0.07	<0.005	16	1.4	1.8
N253758	Drill Core	27.4	0.3	<0.05	<0.005	13	1.5	0.6
N253765	Drill Core	51.0	1.0	0.07	<0.005	9	1.0	1.1
N253790	Drill Core	26.4	1.3	0.10	<0.005	6	0.6	<0.5
N253797	Drill Core	28.9	1.3	0.06	<0.005	6	0.7	<0.5



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Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
N253828	Drill Core	3.65	4	2.0	22.2	13.2	40	0.1	4.8	17.8	614	5.10	4	0.7	2.2	186	0.2	0.1	<0.1	179	1.30
N253839	Drill Core	4.24	4	15.9	23.7	14.9	51	<0.1	2.9	7.9	623	2.88	3	3.0	6.3	45	0.1	0.4	0.7	63	0.50
N253867	Drill Core	4.39	<2	3.7	53.2	6.9	61	<0.1	4.9	12.3	993	3.91	5	2.8	6.5	254	0.1	0.1	<0.1	100	2.61
N253873	Drill Core	3.94	4	2.4	50.5	7.6	63	<0.1	4.8	9.9	916	3.44	11	2.4	6.0	219	<0.1	0.3	<0.1	87	5.16
N253902	Drill Core	4.73	<2	4.3	24.3	4.4	16	<0.1	1.8	4.2	208	1.71	9	11.1	9.5	233	<0.1	0.4	<0.1	35	1.93
N256085	Drill Core	3.86	2	3.2	92.1	10.7	177	<0.1	12.7	19.4	513	5.25	5	2.7	4.5	47	0.6	0.6	0.3	155	0.50
N256109	Drill Core	4.06	<2	1.3	50.1	3.8	65	<0.1	6.9	17.3	74	5.46	8	1.1	1.6	124	0.1	0.5	<0.1	189	0.24
N256139	Drill Core	3.84	<2	0.7	33.5	6.7	45	<0.1	5.6	17.6	914	5.10	4	0.7	1.4	167	<0.1	0.3	<0.1	163	4.36
N256165	Drill Core	3.63	<2	0.9	85.9	11.7	107	<0.1	3.9	12.1	214	4.81	13	1.2	1.9	66	0.3	1.5	0.2	124	0.27
N256183	Drill Core	3.90	<2	0.8	49.9	3.0	22	<0.1	5.3	16.4	1496	5.61	18	0.8	1.6	214	<0.1	1.7	<0.1	194	3.24
N256202	Drill Core	3.07	<2	1.6	14.9	6.9	3	<0.1	3.6	11.3	21	4.52	14	0.8	2.1	373	<0.1	0.7	0.4	94	1.67
N256214	Drill Core	3.43	2	2.7	45.7	5.0	61	<0.1	22.4	24.0	2042	6.03	10	0.4	0.8	243	<0.1	4.3	<0.1	215	2.97
N256232	Drill Core	3.51	<2	4.9	30.5	4.5	64	<0.1	8.7	13.1	836	3.85	5	0.7	1.5	385	<0.1	3.8	0.7	98	4.23
N256249	Drill Core	2.90	<2	1.0	31.9	4.6	51	<0.1	5.5	19.3	1509	4.87	19	0.9	1.9	273	<0.1	4.8	0.3	179	5.46
N256260	Drill Core	3.28	<2	0.7	63.6	3.7	131	<0.1	10.2	22.0	734	5.71	38	0.3	0.7	396	0.3	7.4	0.2	235	4.32
N256278	Drill Core	3.07	<2	0.8	39.7	1.9	31	<0.1	2.3	14.9	632	5.26	26	0.8	1.9	437	<0.1	2.7	0.2	142	2.70



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Project: Pemberton

Report Date: January 25, 2019

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CERTIFICATE OF ANALYSIS

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Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
N253828	Drill Core	0.081	9.6	4	1.49	27	0.217	8.40	2.532	1.66	0.5	17.3	23	1.1	14.5	1.6	0.1	<1	14	17.2	3.5
N253839	Drill Core	0.053	12.6	4	1.18	30	0.203	7.16	1.441	2.85	0.8	128.5	32	2.5	21.8	6.5	0.5	<1	11	10.4	2.9
N253867	Drill Core	0.064	17.7	7	1.13	1012	0.355	7.50	2.617	2.83	0.6	83.4	40	1.1	26.0	10.0	0.7	1	14	7.2	<0.1
N253873	Drill Core	0.055	16.7	6	1.00	824	0.320	7.40	2.226	2.55	0.6	75.1	36	1.1	23.4	8.8	0.6	<1	13	13.1	0.4
N253902	Drill Core	0.025	13.6	3	0.46	995	0.164	6.06	2.483	3.12	0.1	39.2	22	0.5	9.5	8.7	0.7	<1	5	7.1	0.1
N256085	Drill Core	0.085	11.3	19	1.51	17	0.461	7.98	0.060	2.52	1.1	133.6	32	1.9	22.0	10.3	0.7	<1	19	4.7	6.0
N256109	Drill Core	0.078	7.5	6	0.10	17	0.430	8.21	0.086	1.81	0.5	49.5	21	1.1	11.5	5.3	0.3	<1	17	0.4	6.2
N256139	Drill Core	0.062	7.6	5	1.17	19	0.381	7.66	0.384	1.81	0.3	46.6	20	1.1	12.2	4.5	0.3	1	16	1.7	8.3
N256165	Drill Core	0.078	6.4	5	0.65	15	0.377	7.85	0.043	1.86	0.3	80.7	19	1.2	17.4	6.8	0.4	1	15	1.0	5.4
N256183	Drill Core	0.096	14.2	3	1.97	20	0.479	8.12	0.199	0.63	0.2	31.9	33	1.1	24.7	6.0	0.4	1	18	3.6	5.7
N256202	Drill Core	0.069	8.6	3	<0.01	11	0.217	5.40	0.030	0.01	0.4	31.7	21	1.0	8.3	4.0	0.3	<1	7	0.6	6.4
N256214	Drill Core	0.096	7.2	22	2.22	18	0.472	7.80	0.661	0.71	0.2	19.8	17	1.0	13.6	4.3	0.3	<1	23	5.3	7.9
N256232	Drill Core	0.251	11.9	7	1.50	16	0.238	7.50	1.440	1.21	0.5	33.1	28	1.6	11.3	4.3	0.3	<1	9	2.8	6.7
N256249	Drill Core	0.072	11.1	3	2.00	23	0.387	7.82	0.679	1.11	0.3	41.0	26	1.4	16.9	4.7	0.3	<1	16	5.2	6.3
N256260	Drill Core	0.068	6.3	9	2.22	17	0.467	8.20	1.762	0.84	0.3	13.3	17	1.3	14.0	3.6	0.2	<1	19	4.7	8.3
N256278	Drill Core	0.102	12.9	1	2.02	18	0.331	8.62	3.241	0.48	0.2	27.4	29	0.7	15.0	4.7	0.3	<1	11	6.2	6.1



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CERTIFICATE OF ANALYSIS

VAN18003794.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
N253828	Drill Core	54.3	0.5	<0.05	0.007	8	0.5	0.7
N253839	Drill Core	100.5	3.9	<0.05	0.083	10	0.8	0.9
N253867	Drill Core	98.6	2.3	0.07	<0.005	<1	<0.5	<0.5
N253873	Drill Core	73.4	2.5	<0.05	<0.005	1	0.9	<0.5
N253902	Drill Core	91.1	1.3	<0.05	<0.005	<1	<0.5	0.6
N256085	Drill Core	76.0	4.1	0.13	<0.005	19	0.9	0.9
N256109	Drill Core	39.6	1.4	0.08	<0.005	3	<0.5	0.9
N256139	Drill Core	39.2	1.3	0.09	<0.005	4	<0.5	0.7
N256165	Drill Core	48.4	2.3	0.23	<0.005	7	2.0	1.1
N256183	Drill Core	15.9	1.1	0.07	<0.005	7	0.7	<0.5
N256202	Drill Core	0.2	0.9	<0.05	<0.005	4	<0.5	<0.5
N256214	Drill Core	9.5	0.7	0.10	<0.005	7	4.6	<0.5
N256232	Drill Core	27.4	1.0	0.07	<0.005	8	1.7	<0.5
N256249	Drill Core	20.3	1.2	<0.05	<0.005	17	13.4	<0.5
N256260	Drill Core	12.9	0.6	0.08	<0.005	8	3.5	<0.5
N256278	Drill Core	10.1	0.8	0.05	<0.005	18	2.2	<0.5



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QUALITY CONTROL REPORT

VAN18003794.1

Method	WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01		
Pulp Duplicates																						
N253833	Drill Core	8.07	4	3.3	33.0	6.4	52	<0.1	15.3	24.4	992	5.84	2	0.7	1.9	405	<0.1	0.1	0.1	194	0.83	
REP N253833	QC			3.2	35.6	7.0	55	<0.1	15.0	24.2	1095	6.09	2	0.7	1.9	415	<0.1	0.2	0.2	206	0.85	
N253842	Drill Core	8.12	8	3.2	71.5	17.0	80	0.1	6.6	15.0	1156	4.02	21	3.2	7.1	286	0.3	1.1	<0.1	117	3.27	
REP N253842	QC			7																		
N253869	Drill Core	7.25	3	4.1	50.2	6.6	59	<0.1	4.6	12.4	979	3.82	10	2.9	6.9	183	0.2	0.3	<0.1	99	3.82	
REP N253869	QC			3.9	47.8	6.5	56	<0.1	4.9	12.4	934	3.71	9	2.7	6.7	179	0.1	0.3	<0.1	96	3.75	
N253879	Drill Core	8.00	9	21.8	1000.9	261.9	2525	1.5	3.5	7.3	231	2.33	1	1.4	3.6	53	12.0	0.6	1.0	70	1.36	
REP N253879	QC			9																		
N253906	Drill Core	8.89	<2	2.8	51.2	6.5	51	<0.1	5.0	12.2	912	3.65	7	2.4	6.0	205	<0.1	0.2	0.2	106	3.66	
REP N253906	QC			3.1	52.2	7.0	56	<0.1	5.3	12.4	933	3.98	7	2.4	6.1	221	<0.1	0.2	<0.1	114	3.97	
N253690	Drill Core	3.73	3	0.6	13.7	15.4	96	<0.1	1.7	6.8	758	3.46	<1	1.4	2.4	50	0.4	1.0	0.6	65	0.36	
REP N253690	QC			3																		
N256214	Drill Core	3.43	2	2.7	45.7	5.0	61	<0.1	22.4	24.0	2042	6.03	10	0.4	0.8	243	<0.1	4.3	<0.1	215	2.97	
REP N256214	QC			2.6	44.4	4.4	59	<0.1	21.3	24.1	1986	5.83	10	0.4	0.7	226	<0.1	4.5	0.1	215	2.88	
N256232	Drill Core	3.51	<2	4.9	30.5	4.5	64	<0.1	8.7	13.1	836	3.85	5	0.7	1.5	385	<0.1	3.8	0.7	98	4.23	
REP N256232	QC			<2																		
Core Reject Duplicates																						
N253855	Drill Core	8.96	<2	2.0	63.0	10.0	71	<0.1	6.0	13.4	1059	3.96	3	3.4	8.1	327	0.1	0.2	<0.1	108	3.13	
DUP N253855	QC			<2	2.1	62.4	8.6	71	<0.1	5.7	13.2	1055	3.95	3	3.1	7.7	341	<0.1	0.2	<0.1	109	3.12
N253891	Drill Core	9.04	3	5.0	63.3	8.0	65	<0.1	5.9	14.0	1044	4.11	14	2.9	7.3	286	<0.1	0.4	<0.1	112	3.29	
DUP N253891	QC			2	4.6	55.6	7.6	61	0.1	5.9	13.0	1036	4.08	13	2.8	271	<0.1	0.4	<0.1	109	3.24	
N253867	Drill Core	4.39	<2	3.7	53.2	6.9	61	<0.1	4.9	12.3	993	3.91	5	2.8	6.5	254	0.1	0.1	<0.1	100	2.61	
DUP N253867	QC			<2	3.5	53.5	7.5	60	<0.1	4.8	11.8	981	3.91	6	3.0	7.1	252	<0.1	0.2	<0.1	102	2.67
Reference Materials																						
STD OREAS25A-4A	Standard			2.4	38.9	26.4	50	<0.1	45.8	7.9	464	6.40	10	3.2	17.5	51	<0.1	0.7	0.4	155	0.32	
STD OREAS25A-4A	Standard			2.3	34.6	25.1	43	<0.1	43.9	7.7	487	6.52	10	2.9	16.5	49	<0.1	0.6	0.4	157	0.31	
STD OREAS25A-4A	Standard			2.6	37.9	24.9	47	<0.1	46.9	8.1	498	6.77	11	2.8	16.1	52	<0.1	0.6	0.2	160	0.32	
STD OREAS25A-4A	Standard			2.2	33.8	22.9	42	<0.1	42.9	7.0	473	6.71	9	2.5	14.4	45	<0.1	0.5	0.3	164	0.31	



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Report Date: January 25, 2019

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QUALITY CONTROL REPORT

VAN18003794.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
N253833	Drill Core	0.095	8.8	16	2.28	26	0.181	8.00	1.454	2.59	0.3	19.3	21	1.6	15.9	1.0	<0.1	<1	20	28.2	3.5
REP N253833	QC	0.103	8.6	16	2.39	28	0.191	8.31	1.535	2.73	0.3	20.2	21	1.9	16.1	1.0	<0.1	<1	20	30.1	3.7
N253842	Drill Core	0.073	24.2	9	1.28	305	0.424	7.52	2.159	3.64	0.8	83.9	45	2.0	29.2	9.6	0.7	<1	16	14.9	0.6
REP N253842	QC																				
N253869	Drill Core	0.068	19.7	6	1.12	761	0.346	7.54	2.350	2.71	0.7	88.5	43	0.9	25.6	9.5	0.6	1	14	7.6	0.4
REP N253869	QC	0.067	18.6	6	1.11	760	0.352	7.45	2.302	2.64	0.7	87.5	42	1.1	24.6	9.3	0.6	<1	14	7.6	0.4
N253879	Drill Core	0.044	9.2	7	0.36	34	0.217	5.15	0.082	2.04	0.7	59.5	21	0.7	11.7	5.1	0.3	<1	10	18.4	2.1
REP N253879	QC																				
N253906	Drill Core	0.060	16.1	7	1.18	735	0.356	7.13	2.196	2.24	0.6	94.1	35	1.2	22.6	8.9	0.6	<1	14	8.1	0.1
REP N253906	QC	0.067	16.1	9	1.27	769	0.364	7.46	2.385	2.26	0.6	101.1	35	1.3	23.4	9.5	0.6	<1	15	8.1	0.1
N253690	Drill Core	0.102	8.4	2	1.86	20	0.116	7.48	0.917	1.82	0.2	95.7	22	0.5	10.3	2.0	0.1	1	8	13.4	3.7
REP N253690	QC																				
N256214	Drill Core	0.096	7.2	22	2.22	18	0.472	7.80	0.661	0.71	0.2	19.8	17	1.0	13.6	4.3	0.3	<1	23	5.3	7.9
REP N256214	QC	0.087	6.9	21	2.15	17	0.447	7.60	0.618	0.66	0.2	19.2	17	0.9	13.0	4.1	0.2	<1	23	4.6	7.5
N256232	Drill Core	0.251	11.9	7	1.50	16	0.238	7.50	1.440	1.21	0.5	33.1	28	1.6	11.3	4.3	0.3	<1	9	2.8	6.7
REP N256232	QC																				
Core Reject Duplicates																					
N253855	Drill Core	0.072	22.3	9	1.14	979	0.405	7.47	2.805	2.92	0.6	78.7	43	1.8	29.3	10.1	0.7	1	15	6.7	<0.1
DUP N253855	QC	0.067	20.9	8	1.15	950	0.394	7.51	2.815	2.80	0.6	77.5	43	1.6	28.6	10.2	0.6	<1	16	5.8	<0.1
N253891	Drill Core	0.069	22.1	8	1.30	1040	0.386	8.00	2.502	2.82	0.7	99.2	45	1.3	27.1	10.2	0.7	1	16	9.7	0.3
DUP N253891	QC	0.071	21.0	8	1.25	993	0.375	7.39	2.426	2.77	0.7	94.1	45	1.4	26.5	9.7	0.6	1	15	9.5	0.3
N253867	Drill Core	0.064	17.7	7	1.13	1012	0.355	7.50	2.617	2.83	0.6	83.4	40	1.1	26.0	10.0	0.7	1	14	7.2	<0.1
DUP N253867	QC	0.065	19.1	7	1.12	991	0.374	7.30	2.644	2.84	0.7	86.3	42	1.2	26.9	10.1	0.7	1	14	7.5	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	26.2	108	0.33	142	0.912	9.37	0.133	0.46	1.9	139.5	53	4.1	11.2	18.6	1.4	1	14	36.4	<0.1
STD OREAS25A-4A	Standard	0.049	22.5	106	0.28	156	0.931	9.14	0.122	0.46	1.8	154.5	51	4.2	10.7	19.7	1.4	<1	12	38.0	<0.1
STD OREAS25A-4A	Standard	0.051	23.8	109	0.32	157	0.965	9.81	0.149	0.51	1.9	161.7	53	3.8	10.7	20.5	1.5	<1	13	40.4	<0.1
STD OREAS25A-4A	Standard	0.047	22.0	111	0.32	137	0.989	9.42	0.135	0.52	1.8	141.1	48	3.7	9.9	18.9	1.3	1	12	34.8	<0.1



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te	Tl
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
N253833	Drill Core	75.1	0.6	<0.05	0.008	7	0.7	1.1
REP N253833	QC	71.9	0.7	<0.05	0.009	8	1.0	1.0
N253842	Drill Core	84.5	2.6	<0.05	<0.005	1	0.8	0.7
REP N253842	QC							
N253869	Drill Core	74.4	2.4	<0.05	<0.005	<1	<0.5	<0.5
REP N253869	QC	72.9	2.5	<0.05	<0.005	<1	<0.5	<0.5
N253879	Drill Core	71.7	1.7	0.07	0.008	22	1.5	0.7
REP N253879	QC							
N253906	Drill Core	65.4	2.7	0.05	<0.005	<1	<0.5	<0.5
REP N253906	QC	69.5	2.9	0.06	<0.005	<1	<0.5	<0.5
N253690	Drill Core	41.1	2.5	<0.05	<0.005	13	<0.5	1.4
REP N253690	QC							
N256214	Drill Core	9.5	0.7	0.10	<0.005	7	4.6	<0.5
REP N256214	QC	9.2	0.7	<0.05	<0.005	6	4.2	<0.5
N256232	Drill Core	27.4	1.0	0.07	<0.005	8	1.7	<0.5
REP N256232	QC							
Core Reject Duplicates								
N253855	Drill Core	89.6	2.5	0.08	<0.005	<1	<0.5	<0.5
DUP N253855	QC	89.4	2.6	0.06	<0.005	<1	<0.5	<0.5
N253891	Drill Core	82.3	2.8	<0.05	<0.005	1	0.5	<0.5
DUP N253891	QC	76.5	2.5	0.05	<0.005	<1	<0.5	<0.5
N253867	Drill Core	98.6	2.3	0.07	<0.005	<1	<0.5	<0.5
DUP N253867	QC	101.2	2.6	0.05	<0.005	<1	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	61.2	4.0	<0.05	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	64.0	4.3	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	66.8	4.3	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.0	3.9	0.12	<0.005	2	<0.5	<0.5



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Vancouver British Columbia V6E 4H1 Canada

Project: Pemberton

Report Date: January 25, 2019

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QUALITY CONTROL REPORT

VAN18003794.1

		WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200		
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
STD OREAS45E	Standard			2.1	831.4	19.4	51	0.3	505.0	62.2	576	25.44	17	2.7	14.2	18	<0.1	1.0	0.3	347	0.07	
STD OREAS45E	Standard			2.3	785.5	19.4	45	0.3	465.1	56.8	578	25.14	18	2.5	13.3	17	<0.1	1.2	0.3	335	0.07	
STD OREAS45E	Standard			2.4	779.7	17.2	48	0.3	484.4	57.5	570	23.76	19	2.3	12.1	17	<0.1	0.9	0.3	350	0.07	
STD OREAS45E	Standard			2.0	774.8	17.0	45	0.3	481.3	58.9	561	23.28	17	2.2	12.3	17	<0.1	0.9	0.2	330	0.07	
STD OXC145	Standard		201																			
STD OXC145	Standard		204																			
STD OXC145	Standard		211																			
STD OXC145	Standard		206																			
STD OXC145	Standard		212																			
STD OXH139	Standard		1296																			
STD OXH139	Standard		1277																			
STD OXH139	Standard		1301																			
STD OXH139	Standard		1250																			
STD OXH139	Standard		1304																			
STD OXC145 Expected			212																			
STD OXH139 Expected			1312																			
STD OREAS25A-4A Expected				2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309	
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	
BLK	Blank		<2																			
BLK	Blank		2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank		<2																			
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	
Prep Wash																						
ROCK-VAN	Prep Blank		9	0.8	8.6	17.9	46	0.1	0.8	4.6	687	2.34	3	1.3	3.1	226	<0.1	0.4	0.1	42	1.96	



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Project: Pemberton

Report Date: January 25, 2019

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QUALITY CONTROL REPORT

VAN18003794.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD OREAS45E	Standard	0.037	12.8	981	0.16	254	0.564	7.29	0.059	0.34	1.0	94.2	26	1.5	8.6	6.1	0.5	<1	97	6.6	<0.1
STD OREAS45E	Standard	0.032	11.6	979	0.14	264	0.552	6.75	0.045	0.34	1.1	100.1	26	1.4	8.2	6.6	0.6	<1	91	7.0	<0.1
STD OREAS45E	Standard	0.037	10.4	971	0.14	253	0.535	7.06	0.049	0.36	1.0	96.6	24	1.2	7.7	6.4	0.5	<1	94	7.2	<0.1
STD OREAS45E	Standard	0.034	11.0	999	0.15	246	0.539	6.98	0.050	0.35	1.0	92.8	24	1.2	7.9	6.2	0.5	<1	94	6.8	<0.1
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXC145 Expected																					
STD OXH139 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	10.5	20.9	1.5	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.048	12.0	3	0.54	779	0.253	6.88	3.674	1.58	0.4	50.5	24	1.3	16.4	5.8	0.4	1	8	2.9	<0.1



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QUALITY CONTROL REPORT

VAN18003794.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E	Standard	21.6	2.8	0.14	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.2	3.0	0.13	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.9	2.9	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.6	2.6	0.08	<0.005	3	<0.5	<0.5
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXC145	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXH139	Standard							
STD OXC145 Expected								
STD OXH139 Expected								
STD OREAS25A-4A Expected		61	4.28	0.09		2.5		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	30.7	1.6	<0.05	<0.005	<1	<0.5	<0.5



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QUALITY CONTROL REPORT

VAN18003794.1

WGHT	FA350	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	
kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
ROCK-VAN	Prep Blank	7	1.1	9.0	16.8	55	<0.1	1.1	4.4	675	2.29	2	1.3	3.1	231	<0.1	0.3	0.2	40	2.00



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QUALITY CONTROL REPORT

VAN18003794.1

	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
ROCK-VAN	Prep Blank	0.045	13.5	4	0.52	740	0.227	7.02	3.603	1.45	0.3	47.8	25	1.2	16.3	5.4	0.4	1	7	2.9	<0.1



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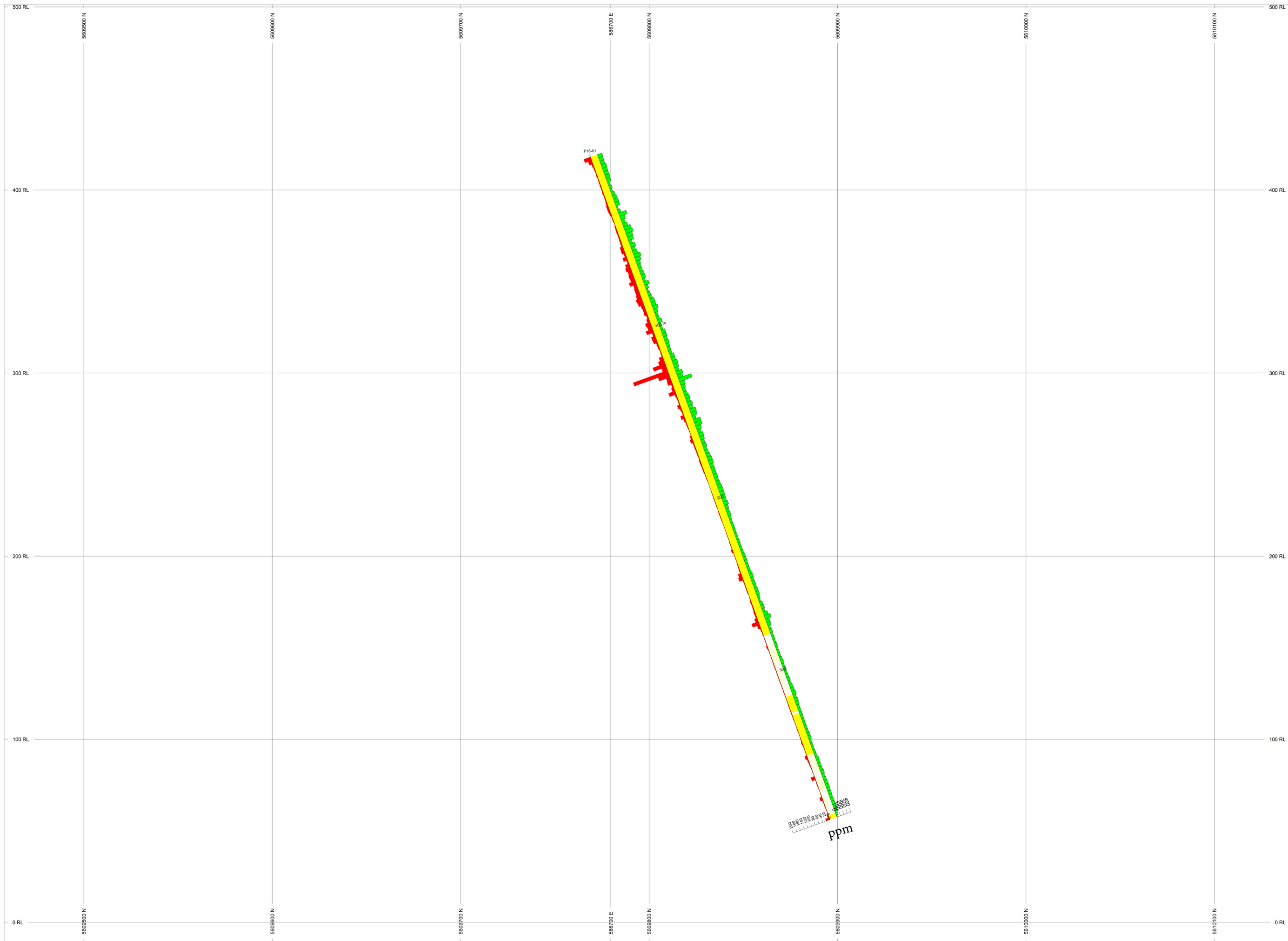
Part: 3 of 3

QUALITY CONTROL REPORT

VAN18003794.1

		MA200	MA200	MA200	MA200	MA200	MA200
		Rb	Hf	In	Re	Se	Te
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	0.05	0.005	1	0.5
ROCK-VAN	Prep Blank	31.7	1.6	0.09	<0.005	<1	<0.5

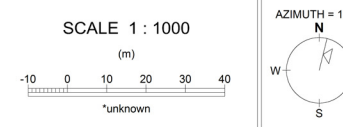
Appendix VI
Drill Section



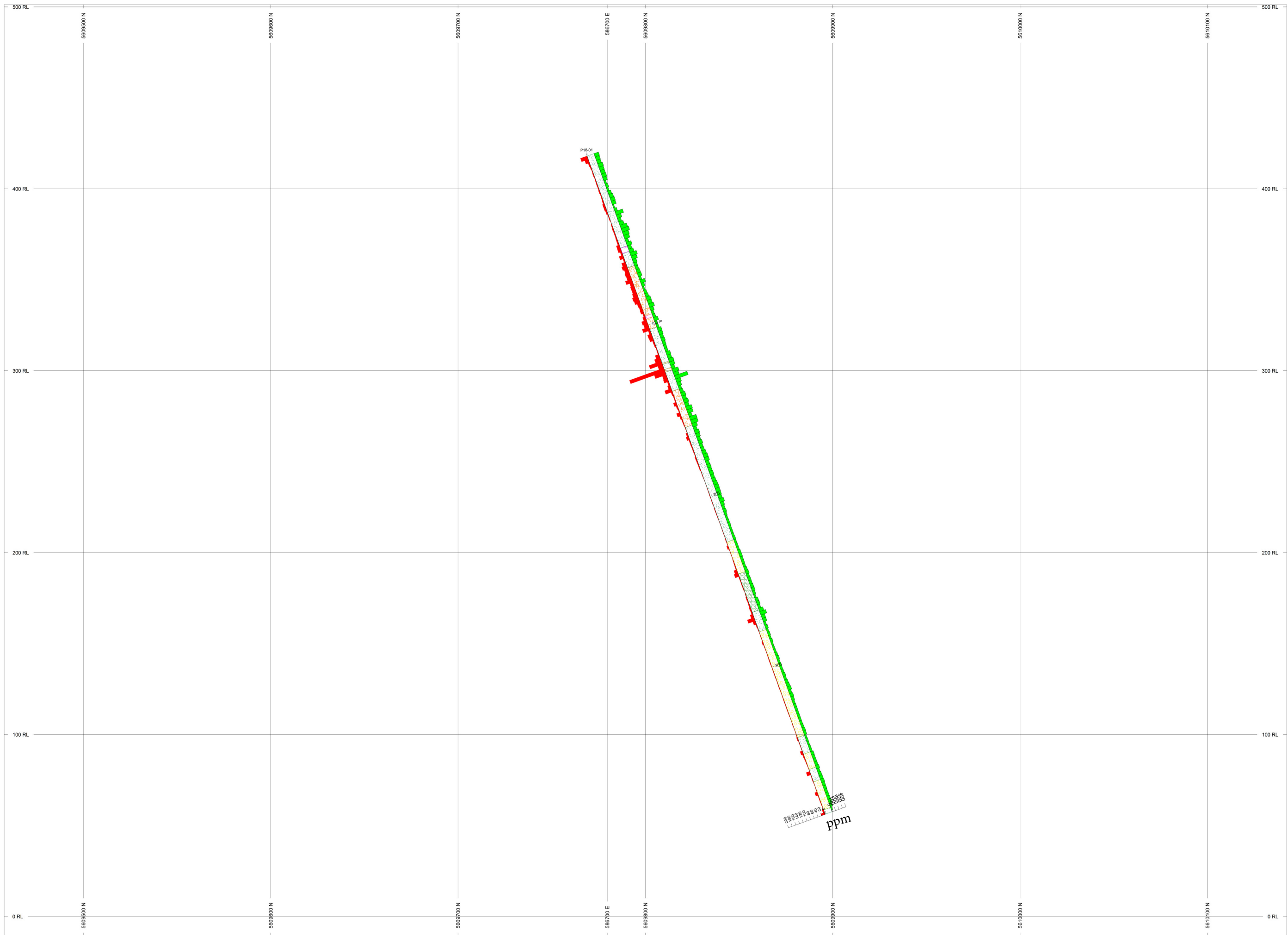
BAR GRAPHS		L/R	COL	
Cu	R		Green	ppm
Mo	L		Red	ppm

ROCK CODES	PAT	LABEL	DESCRIPTION
Alteration	PHY	PHY	porphyry
	SCP	SCP	Advanced Argillic alteration

SECTION SPECS:
 REF. PT. E, N 586705 m 5609800 m
 EXTENTS 705 m 512.3 m
 SECTION TOP, BOT 501.2 m -11.07 m
 TOLERANCE +/- 12.9 m



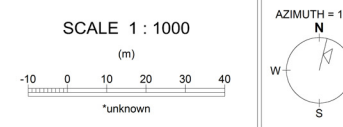
Northisle Copper and Gold Inc.
 Pemberton Hills
 Section P18-01
 Alteration



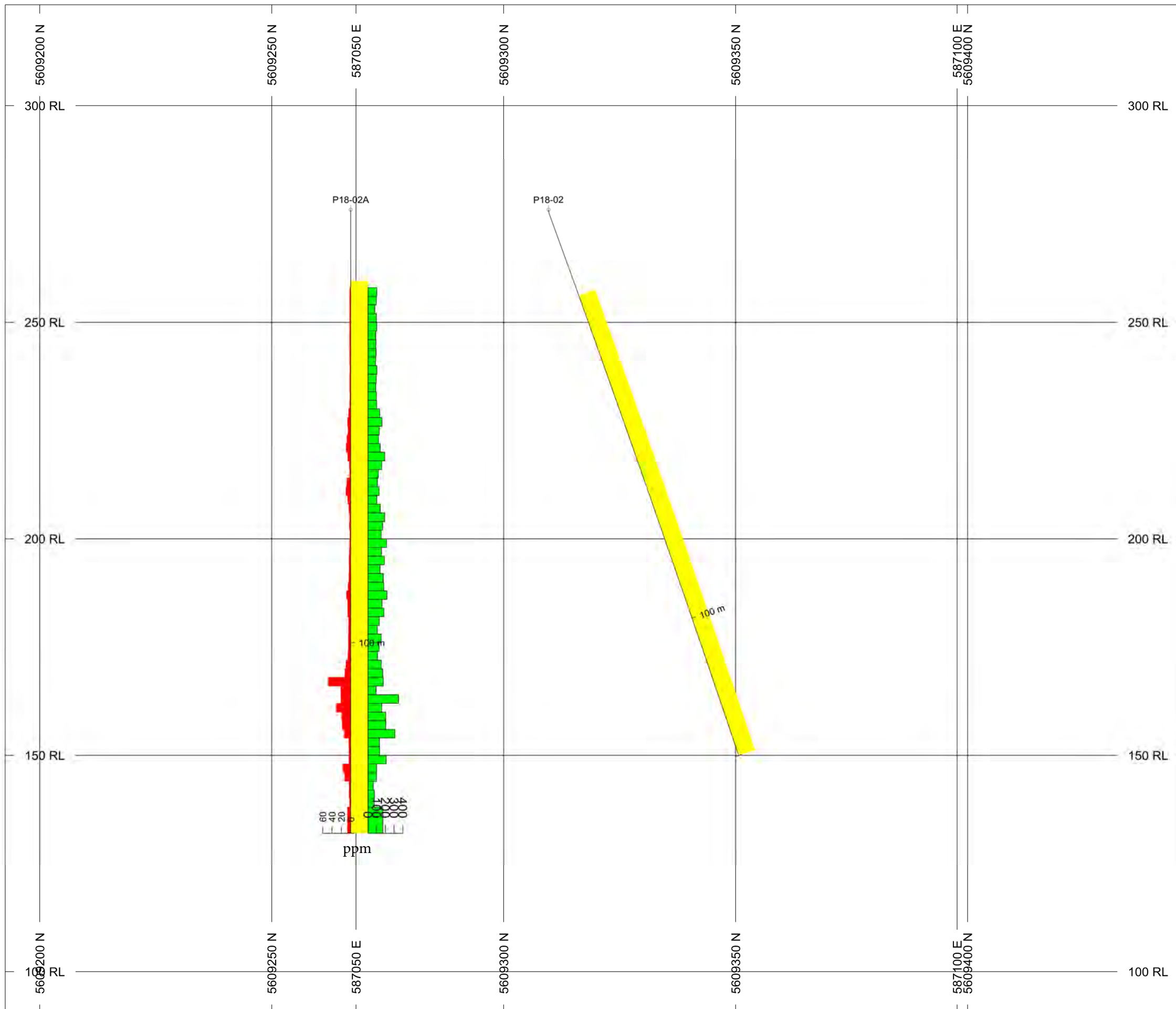
BAR GRAPHS		L/R	COL	
Cu	R		Green	ppm
Mo	L		Red	

ROCK CODES	PAT	LABEL	DESCRIPTION
rocktype	FPY	FPY	feldspar porphyry
	ANTF	ANTF	Tuffaceous andesite
	ANFX	ANFX	Feldspar phyrnic andesite (flow)
	BRXX	BRXX	Late Breccia
	HTBX	HTBX	Hydrothermal Breccia

SECTION SPECS:
 REF. PT. E, N 586705 m 5609800 m
 EXTENTS 705 m 512.3 m
 SECTION TOP, BOT 501.2 m -11.07 m
 TOLERANCE +/- 12.9 m



Northisle Copper and Gold Inc.
Pemberton Hills
Section P18-01
Lithology



BAR GRAPHS	L/R	COL
Cu ppm	R	Green
Mo ppm	L	Red

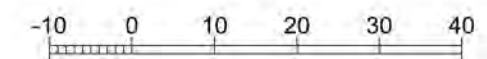
ROCK CODES	PAT	LABEL	DESCRIPTION
Alteration	Yellow	SCP	Advanced Argillic alteration

SECTION SPECS:

REF. PT. E, N	587070 m	5609320 m
EXTENTS	273.2 m	232.9 m
SECTION TOP, BOT	323.3 m	90.39 m
TOLERANCE +/-	19.7 m	

SCALE 1 : 1000

(m)



*unknown

AZIMUTH = 21.1°

N

E

W

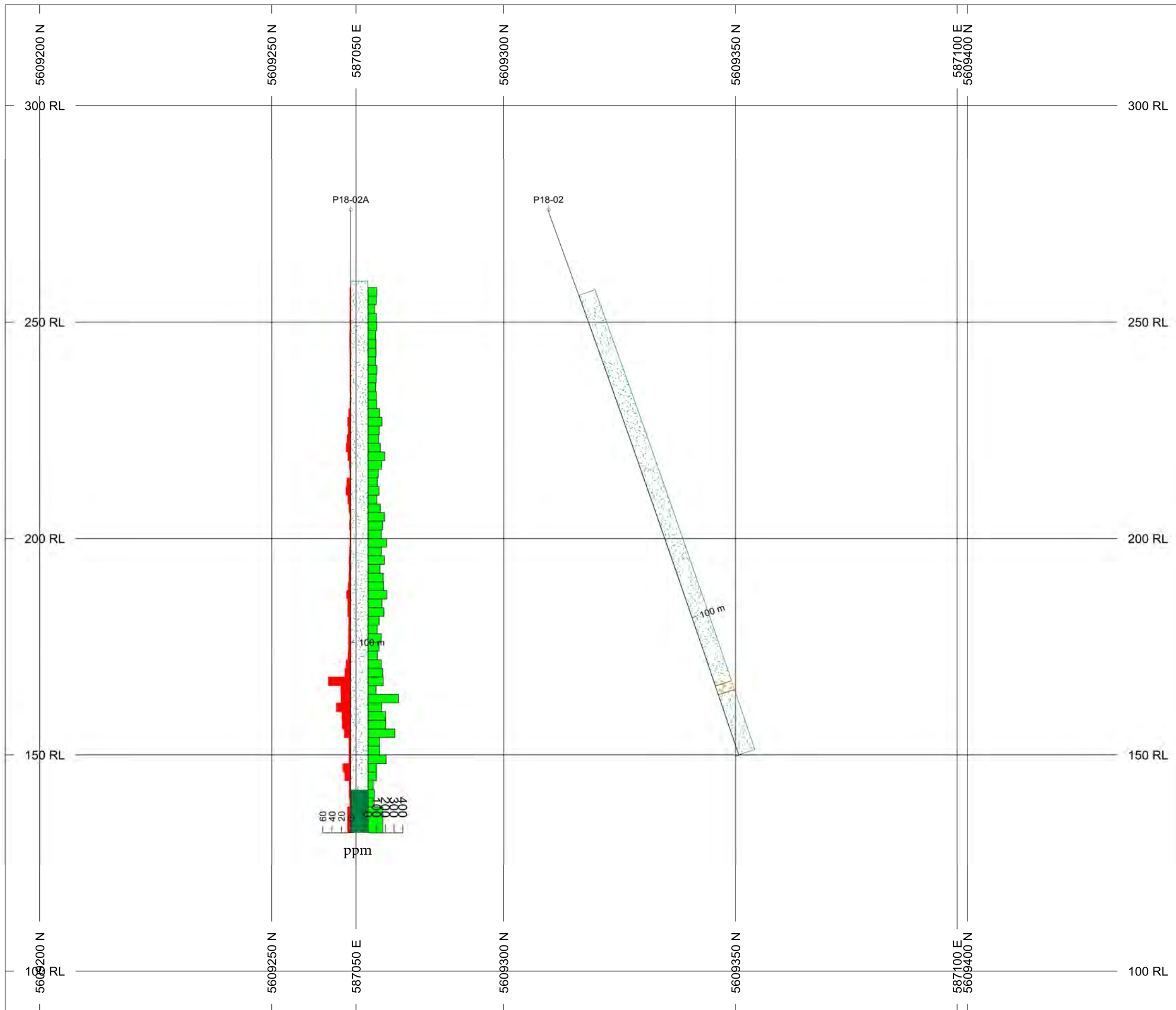
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Pemberton Hills

Section P18-02 & 2A

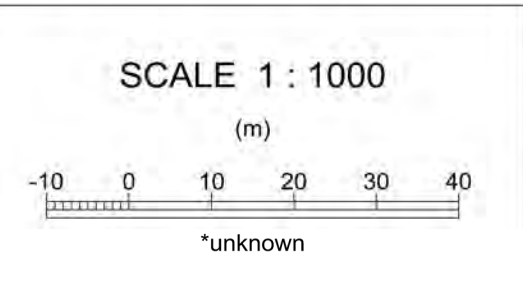
Lithology



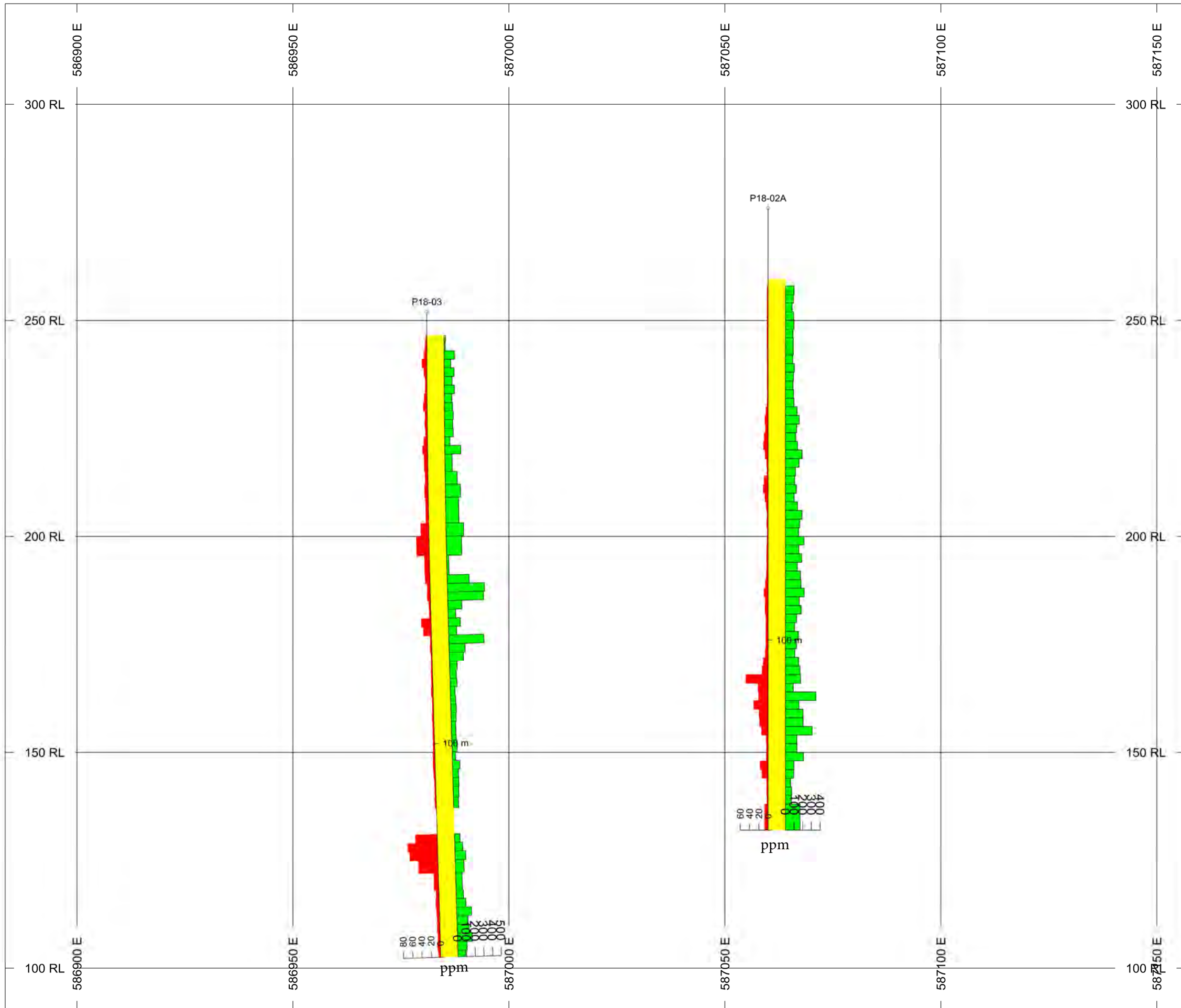
BAR GRAPHS	L/R	COL
Cu ppm	R	Green
Mo ppm	L	Red

ROCK CODES	PAT	LABEL	DESCRIPTION
rocktype	Green	Andesite	
	Stippled	ANTF	Tuffaceous andesite
	Orange	HTBX	Hydrothermal Breccia

SECTION SPECS:
 REF. PT. E, N 587070 m 5609320 m
 EXTENTS 273.2 m 232.9 m
 SECTION TOP, BOT 323.3 m 90.39 m
 TOLERANCE +/- 19.7 m



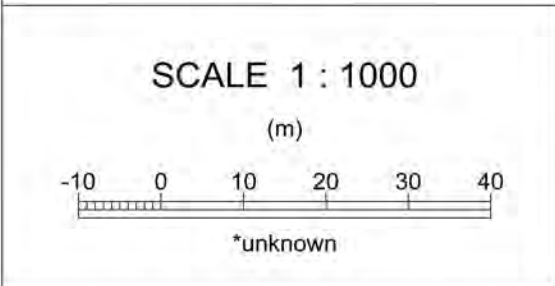
Northisle Copper and Gold Inc.
Pemberton Hills
Section P18-02 & 2A
Lithology



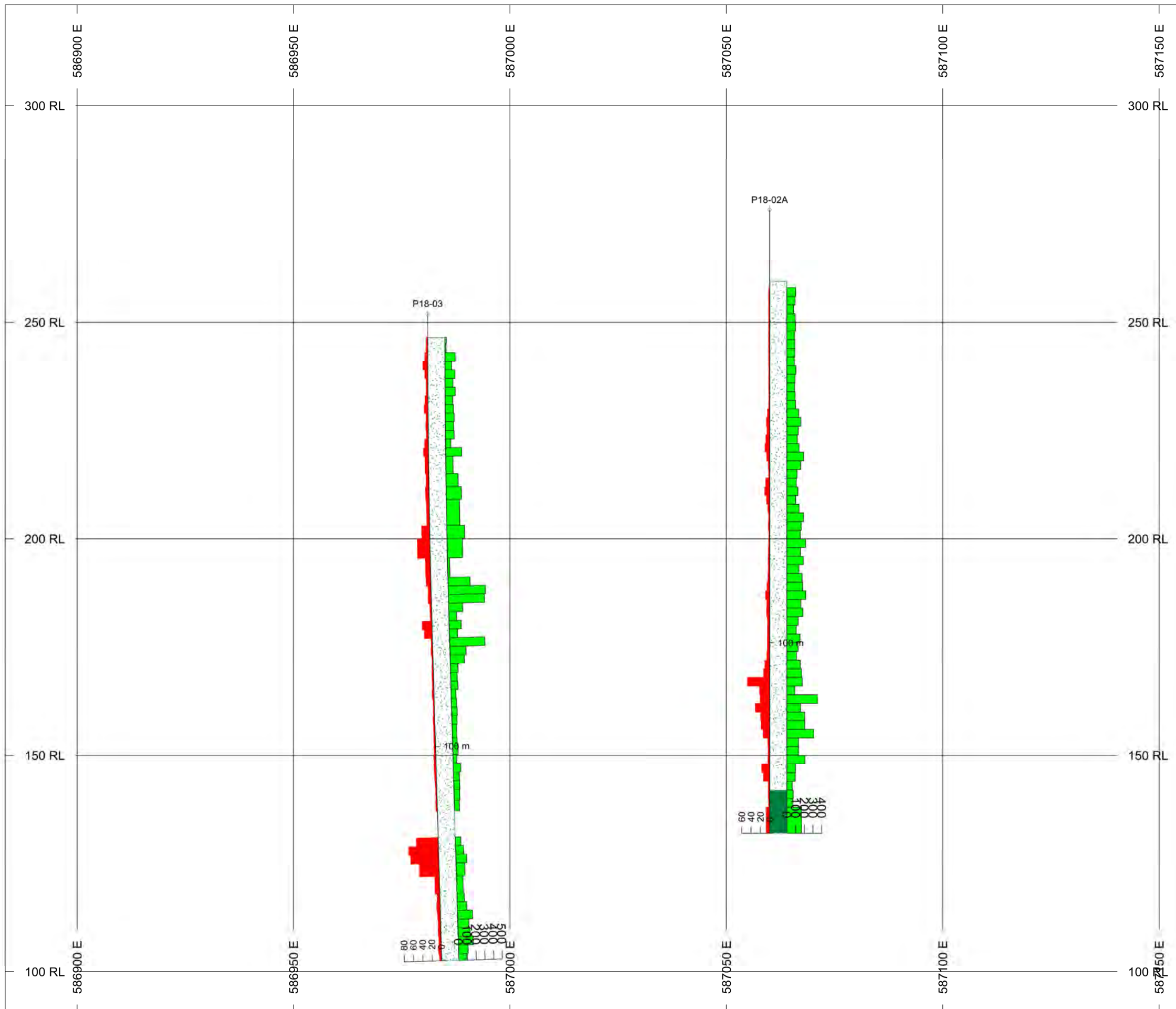
BAR GRAPHS	L/R	COL
Cu ppm	R	Green
Mo ppm	L	Red

ROCK CODES	PAT	LABEL	DESCRIPTION
Alteration	Yellow	SCP	Advanced Argillic alteration

SECTION SPECS:
 REF. PT. E, N 587020 m 5809260 m
 EXTENTS 273.2 m 232.9 m
 SECTION TOP, BOT 323.3 m 90.39 m
 TOLERANCE +/- 18.4 m



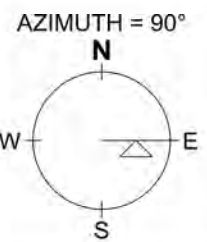
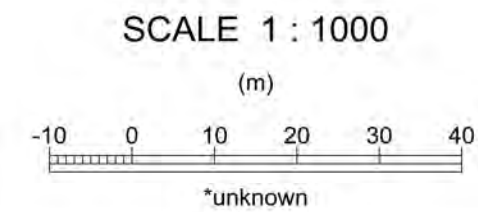
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Pemberton Hills
Section P18-03 & 2A
Lithology



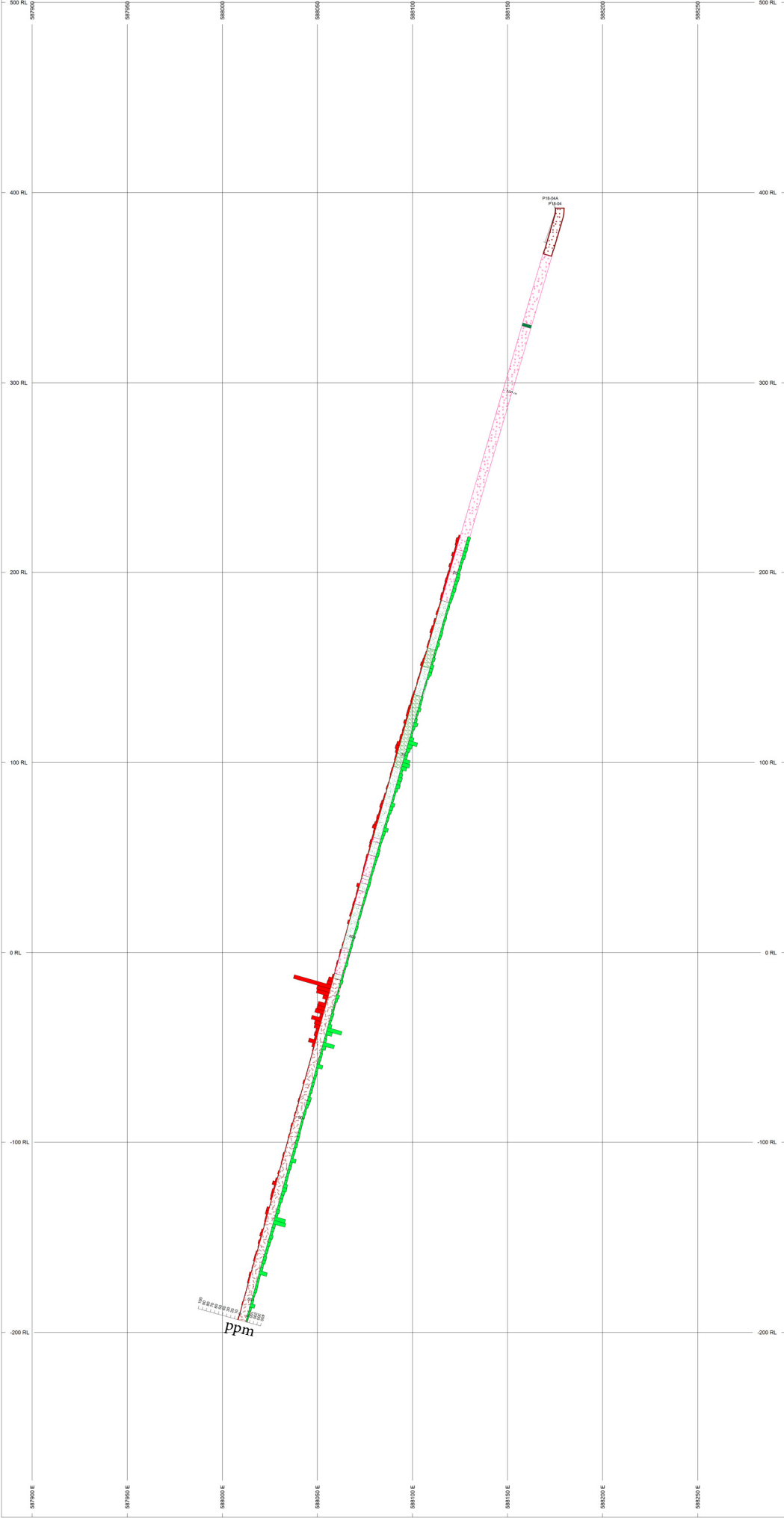
BAR GRAPHS	L/R	COL
Cu ppm	R	Green
Mo ppm	L	Red

ROCK CODES	PAT	LABEL	DESCRIPTION
rocktype	Green	Andesite	Andesite
	ANTF	Tuffaceous andesite	Tuffaceous andesite

SECTION SPECS:
 REF. PT. E, N 587020 m 5609260 m
 EXTENTS 273.2 m 232.9 m
 SECTION TOP, BOT 323.3 m 90.39 m
 TOLERANCE +/- 18.4 m



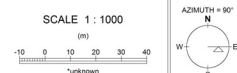
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Pemberton Hills
Section P18-03 & 2A
Lithology

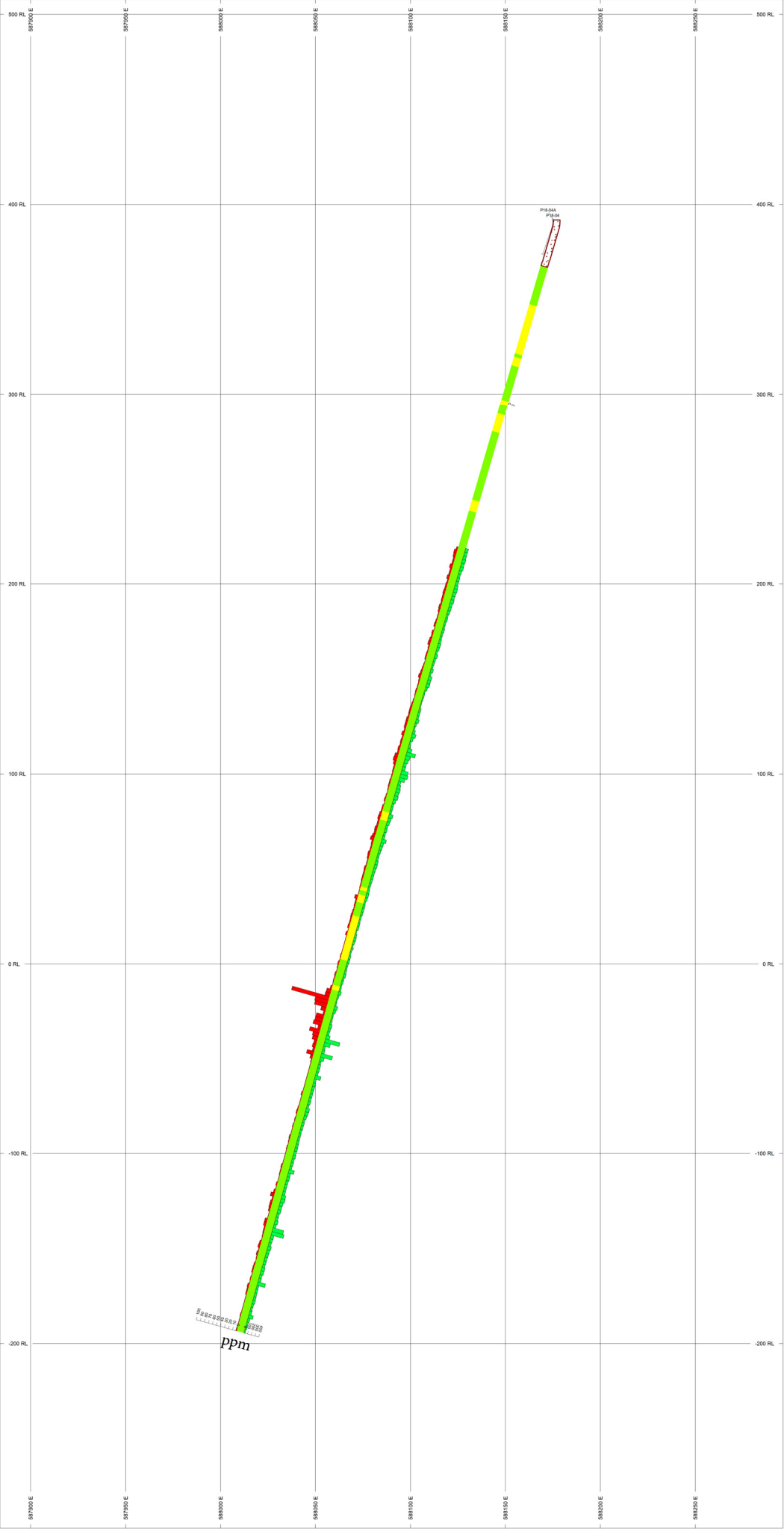


BAR GRAPHS L/R COL
 Cu R [Red Box] ppm
 Au L [Green Box] ppm

ROCK CODES	PAT	LABEL	DESCRIPTION
rocktype	OD	quartz diorite	
	CASE	TSI	
	Andesite		
	ANFX	Tuffaceous andesite	
	ANFX	Feldspar phytic andesite (flow)	
	POD	Porphyritic quartz diorite	

SECTION SPECS:
 REF PT. E. N. 58800 m 569640 m
 EXTENTS 412.3 m 805 m
 SECTION TOP, BOT. 507.8 m -297.2 m
 TOLERANCE +/- 53.5 m

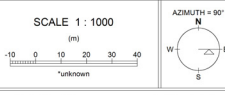




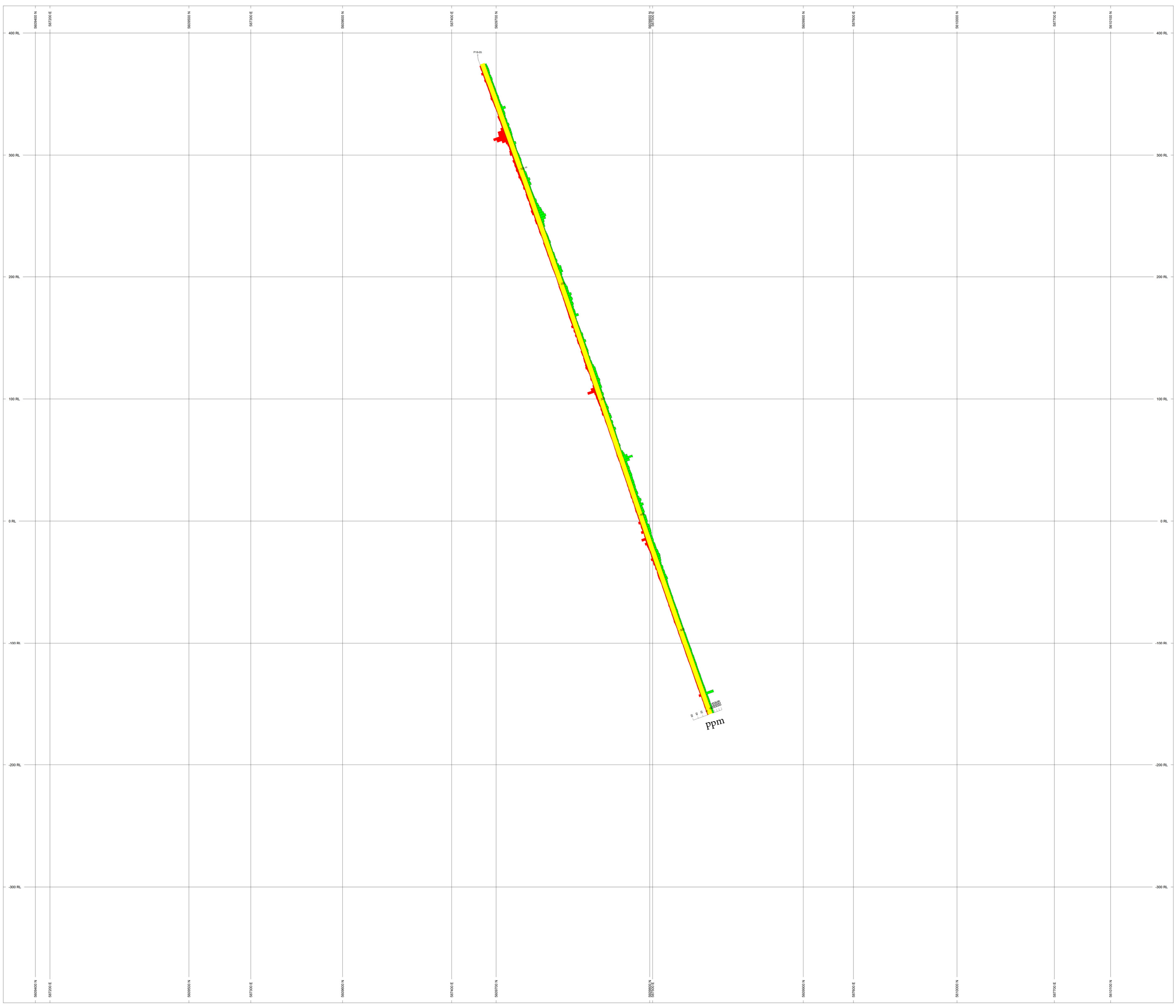
BAR GRAPHS L/R COL
 Cu R
 Au L ppm

ROCK CODES PAT LABEL DESCRIPTION
 Alteration CASE TI
 PRO Propylitic alteration
 SCP Advanced Argillic alteration

SECTION SPECS:
 REF. PT. E. N 588090 m 5808640 m
 EXTENTIS 412.3 m 805 m
 SECTION TOP, BOT 507.8 m -297.2 m
 TOLERANCE +/- 53.5 m



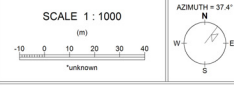
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 Pemberton Hills
 Cross Section P18-04A
 Alteration



BAR GRAPHS L/R COL
 Cu R ■ ppm
 Mo L ■

ROCK CODES PAT LABEL DESCRIPTION
 Alteration SCP Advanced Argillic alteration

SECTION SPECS:
 REF. PT. E N 587688 m 5609760 m
 EXTENTS 99 m 617.1 m
 SECTION TOP BOT 432.2 m -394.9 m
 TOLERANCE +/- 42.4 m





BAR GRAPHS

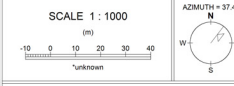
Cu	LIR	COL
Mo	R	ppm
	L	

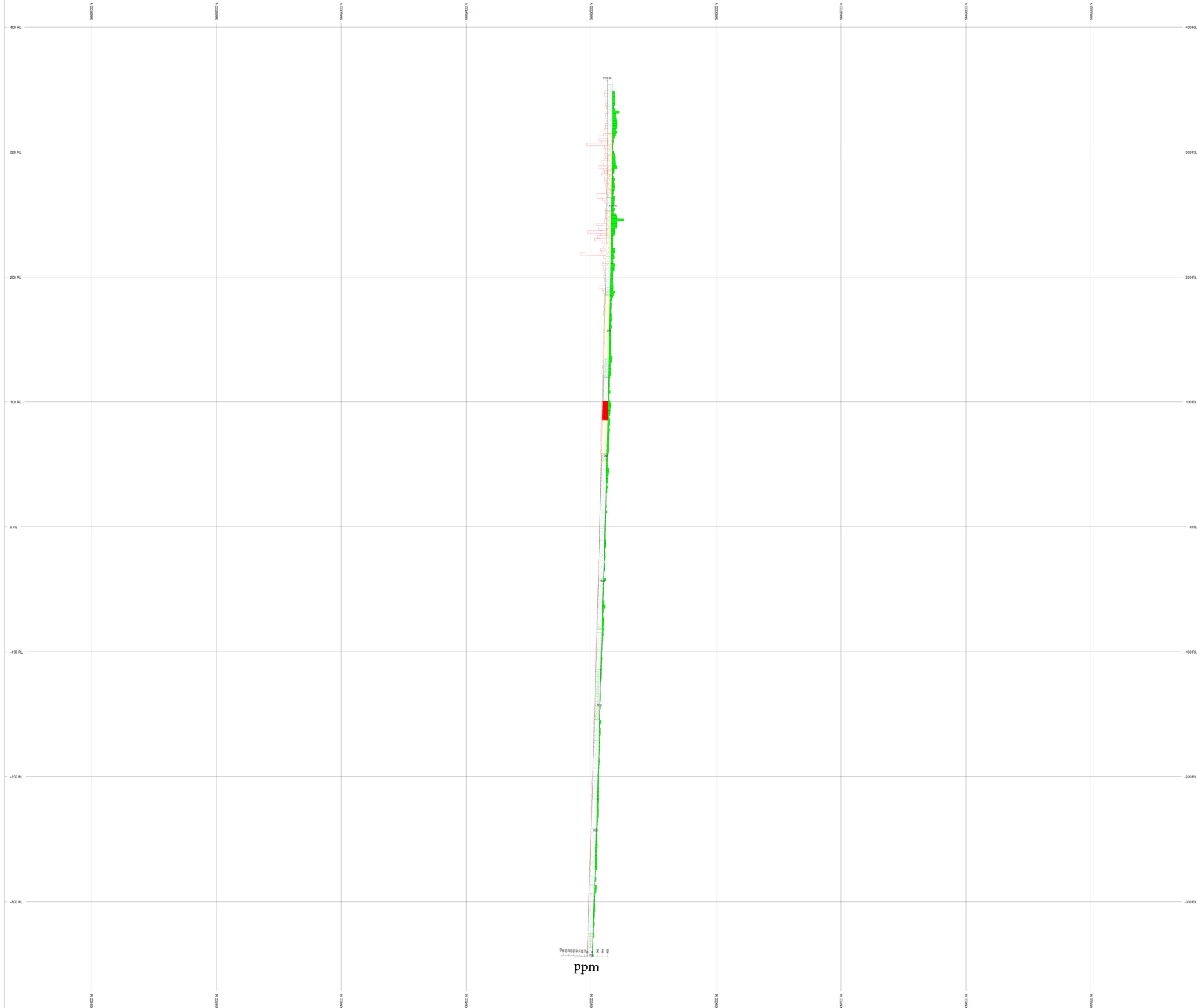
ROCK CODES

rocktype	PAT	LABEL	DESCRIPTION
	GD		quartz diorite
	FPY		felsic porphyry
	ANTF		Tuffaceous andesite
	ANFK		Felsic andesite (flow)
	BSLT		Basalt
	PQD		Porphyritic quartz diorite

SECTION SPECS:

REF. FT. E. N 561468 m 5609760 m
 EXTENTS 99.9 m 517.1 m
 SECTION TOP BOT 422.2 m -394.9 m
 TOLERANCE +/- 42.4 m





BAR GRAPHS LRL COL ppm
 CO R
 M L

ROCK CODES	PAT	LABEL	DESCRIPTION
W1000	0000	0000	W1000
W1001	0001	0001	W1001
W1002	0002	0002	W1002
W1003	0003	0003	W1003
W1004	0004	0004	W1004
W1005	0005	0005	W1005
W1006	0006	0006	W1006
W1007	0007	0007	W1007
W1008	0008	0008	W1008
W1009	0009	0009	W1009
W1010	0010	0010	W1010
W1011	0011	0011	W1011
W1012	0012	0012	W1012
W1013	0013	0013	W1013
W1014	0014	0014	W1014
W1015	0015	0015	W1015
W1016	0016	0016	W1016
W1017	0017	0017	W1017
W1018	0018	0018	W1018
W1019	0019	0019	W1019
W1020	0020	0020	W1020
W1021	0021	0021	W1021
W1022	0022	0022	W1022
W1023	0023	0023	W1023
W1024	0024	0024	W1024
W1025	0025	0025	W1025
W1026	0026	0026	W1026
W1027	0027	0027	W1027
W1028	0028	0028	W1028
W1029	0029	0029	W1029
W1030	0030	0030	W1030
W1031	0031	0031	W1031
W1032	0032	0032	W1032
W1033	0033	0033	W1033
W1034	0034	0034	W1034
W1035	0035	0035	W1035
W1036	0036	0036	W1036
W1037	0037	0037	W1037
W1038	0038	0038	W1038
W1039	0039	0039	W1039
W1040	0040	0040	W1040
W1041	0041	0041	W1041
W1042	0042	0042	W1042
W1043	0043	0043	W1043
W1044	0044	0044	W1044
W1045	0045	0045	W1045
W1046	0046	0046	W1046
W1047	0047	0047	W1047
W1048	0048	0048	W1048
W1049	0049	0049	W1049
W1050	0050	0050	W1050
W1051	0051	0051	W1051
W1052	0052	0052	W1052
W1053	0053	0053	W1053
W1054	0054	0054	W1054
W1055	0055	0055	W1055
W1056	0056	0056	W1056
W1057	0057	0057	W1057
W1058	0058	0058	W1058
W1059	0059	0059	W1059
W1060	0060	0060	W1060
W1061	0061	0061	W1061
W1062	0062	0062	W1062
W1063	0063	0063	W1063
W1064	0064	0064	W1064
W1065	0065	0065	W1065
W1066	0066	0066	W1066
W1067	0067	0067	W1067
W1068	0068	0068	W1068
W1069	0069	0069	W1069
W1070	0070	0070	W1070
W1071	0071	0071	W1071
W1072	0072	0072	W1072
W1073	0073	0073	W1073
W1074	0074	0074	W1074
W1075	0075	0075	W1075
W1076	0076	0076	W1076
W1077	0077	0077	W1077
W1078	0078	0078	W1078
W1079	0079	0079	W1079
W1080	0080	0080	W1080
W1081	0081	0081	W1081
W1082	0082	0082	W1082
W1083	0083	0083	W1083
W1084	0084	0084	W1084
W1085	0085	0085	W1085
W1086	0086	0086	W1086
W1087	0087	0087	W1087
W1088	0088	0088	W1088
W1089	0089	0089	W1089
W1090	0090	0090	W1090
W1091	0091	0091	W1091
W1092	0092	0092	W1092
W1093	0093	0093	W1093
W1094	0094	0094	W1094
W1095	0095	0095	W1095
W1096	0096	0096	W1096
W1097	0097	0097	W1097
W1098	0098	0098	W1098
W1099	0099	0099	W1099
W1100	0100	0100	W1100

SECTION SPECS:
 REQ. REF. L. 0112 to 0105 10 m
 EXTENTS 005 m 017.1 m
 SECTION TOP (M) 412.0 m 388.0 m
 TOLERANCE +/- 0.5 m

SCALE 1:1000
 (m)
 -10 0 10 20 30 40
 100m

AZIMUTH = 0°

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BAR GRAPH	UNIT	SCALE	ppm
Co	g	1	ppm
Mo	g	1	ppm

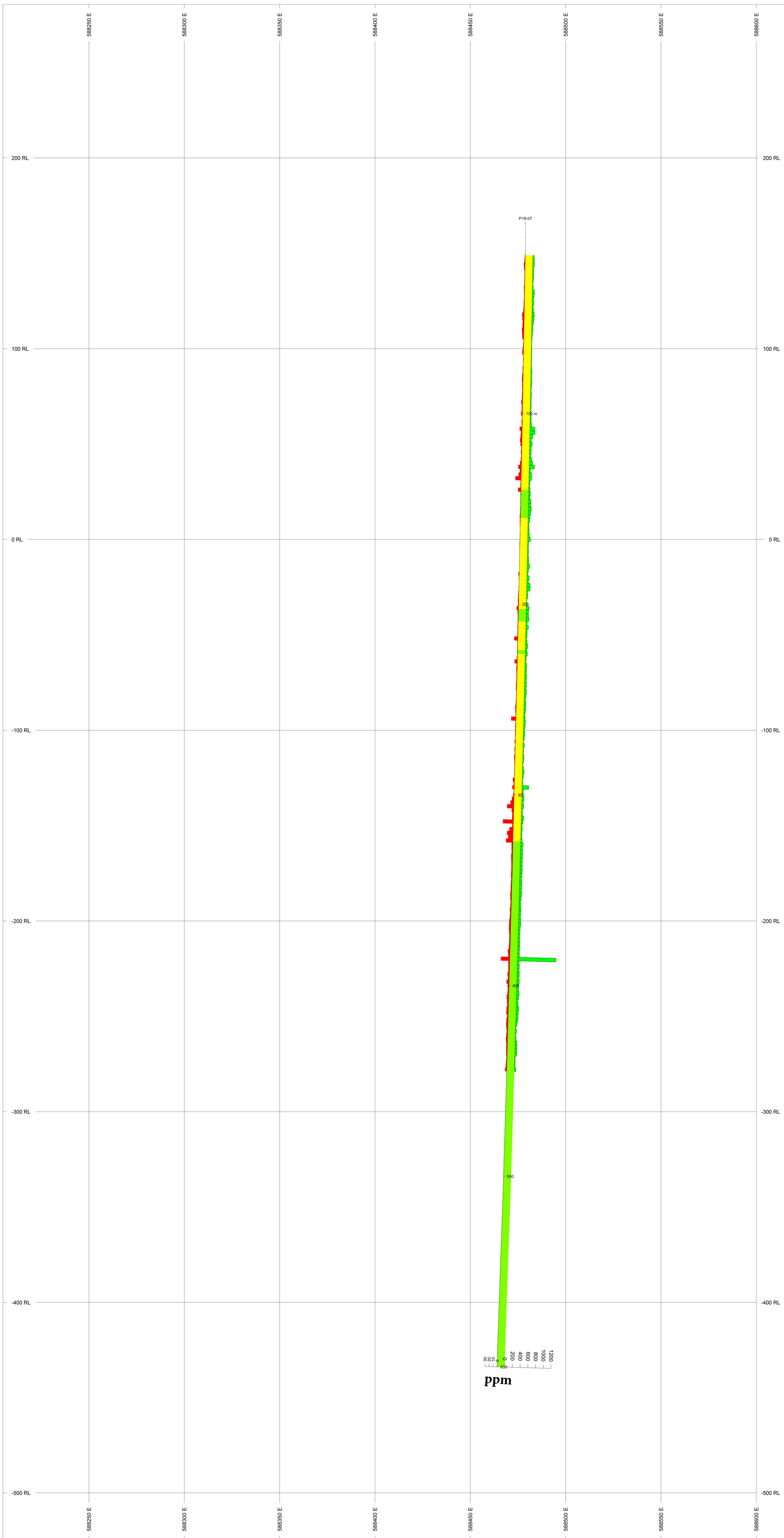
ROCK CODE	UNIT	DESCRIPTION
Alteration	g/g	Advanced Argillite Alteration

SECTION SPECS:
 RES. PT. C.A. = 3000 m
 EXTENTS = 400 m
 SECTION TOP = 400 m
 TOLERANCE = 15 m

SCALE 1:1000
 (m)
 0 10 20 30 40
 *Unknown

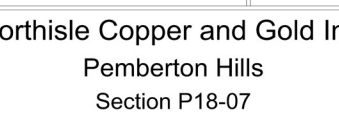
AZIMUTH = 0°
 0 90 180 270
 S

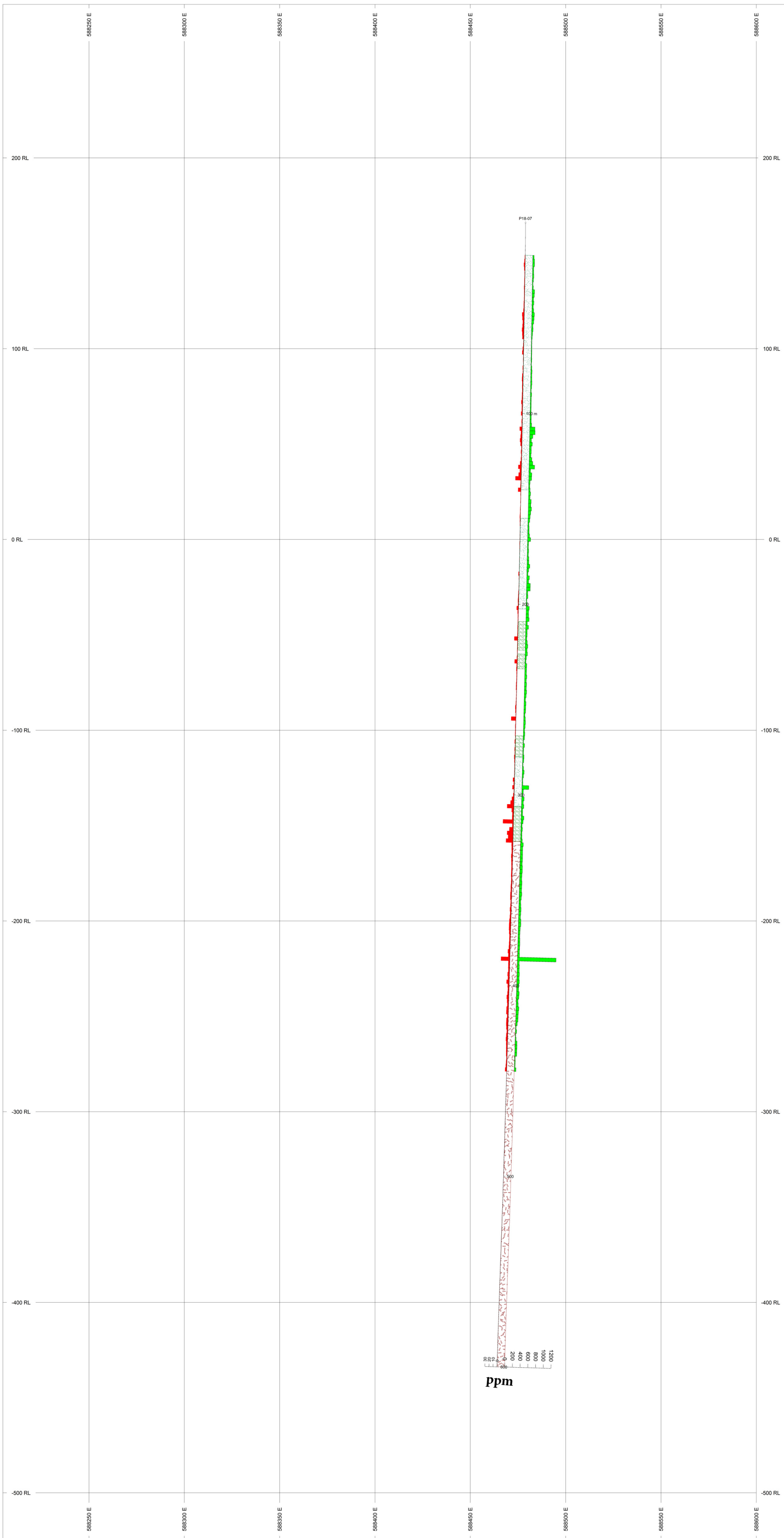
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 Pemberton Hills
 Section P18-06
 Alteration



BAR GRAPHS	L/R	COL	
Cu	R	Green	ppm
Mo	L	Red	
ROCK CODES	PAT	LABEL	DESCRIPTION
Alteration	PRO	Green	Propylitic alteration
	SCP	Yellow	Advanced Argillic alteration

SECTION SPECS:
 REF. PT. E, N 588411 m 5609110 m
 EXTENTS 412.3 m 805 m
 SECTION TOP, BOT 280.5 m -524.5 m
 TOLERANCE +/- 55 m

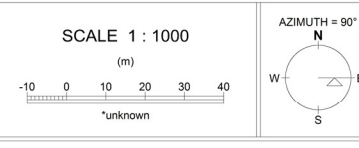




BAR GRAPHS	L/R	COL	
Cu	R	Red	ppm
Mo	L	Green	

ROCK CODES	PAT	LABEL	DESCRIPTION
rocktype	ANTF	ANTF	Tuffaceous andesite
	ANFX	ANFX	Feldspar phyritic andesite (flow)
	PQD	PQD	Porphyritic quartz diorite

SECTION SPECS:
 REF. PT. E, N 588411 m 5609110 m
 EXTENTS 412.3 m 805 m
 SECTION TOP, BOT 280.5 m -524.5 m
 TOLERANCE +/- 55 m



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 Section P18-07
 Lithology