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DIAMOND DRILLING REPORT

FOR THE ST. LAURENT PROPERTY OF

PANCONTINENTAL RESOURCES CORPORATION

ST. LAURENT TWP.
LARDER LAKE MINING DIVISION
ONTARIO

Prepared By:
Todd Keast, P. Geo.

December 9, 2019

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Summary:

Between September 10, 2019 and September 30, 2019, Pancontinental Resources Corporation completed a diamond drill program on its St Laurent project, situated within St. Laurent township of the Larder Lake Mining Division. The drill program consisted of four NQ sized drill holes for a total of 1,731metres. The purpose of the drill program was to evaluate a historical nickel copper showing with an associated unexplained airborne electromagnetic response. The work was performed by NPLH Drilling of Timmins, Ontario under the supervision of Todd Keast, P. Geo, of Sudbury, Ontario. A Garmin handheld non differential GPS units were used to spot all drill holes in the Universal Transverse Mercator (UTM) in zone 17U, NAD83.

The drilling has extended the down dip and along strike continuity of the historical mineralized zone and identified increasing nickel grades associated high higher sulphur material. Additional work including geophysical surveys and diamond drilling is recommended for the St. Laurent Project.

Introduction:

Property Description:

Pancontinental Resources Corporation's (PUC) St. Laurent Property (i.e., the property) consists of 209 claim units (App. D: Tab. 1) in St. Laurent township, Larder Lake Mining Division, District of Cochrane, Ontario. The Property is located 110 kilometers east-northeast of Cochrane, Ontario (Fig. 1). The work was approved under the Ministry of Energy Northern Development and Mines (ENDM) Permit: PR-19-000042.

Property Access:

Access to the property from Cochrane, Ontario is by traveling east via Hwy. 652 for 30 kilometers then turning right onto the Translimit Rd. and traveling 52 kilometers to the Tomlinson Rd. A camp and staging area were set up at a point 31 kilometers north on the Tomlinson Road within the area covered by mining claim 551428, on a flat sandy clearing at UTM co-ordinates 17U 576400E 5467800N. The camp location is registered with the Ministry of Natural Resources in accordance with Section 5(2)3 of O. Reg 239/13 of the Public Lands Act for the construction or placement of building(s) within unpatented mining claims (MNR Confirmation ID M-150-

6322362803). Drilling equipment and personnel were then mobilized easterly approximately 27 kilometers to the property via helicopter (Expedition Helicopters Inc.) based out of Cochrane, ON. A suitable landing site was located near the drilling pads (UTM: NAD83 17U 603442E 5469377N) for drilling crew shift changes.

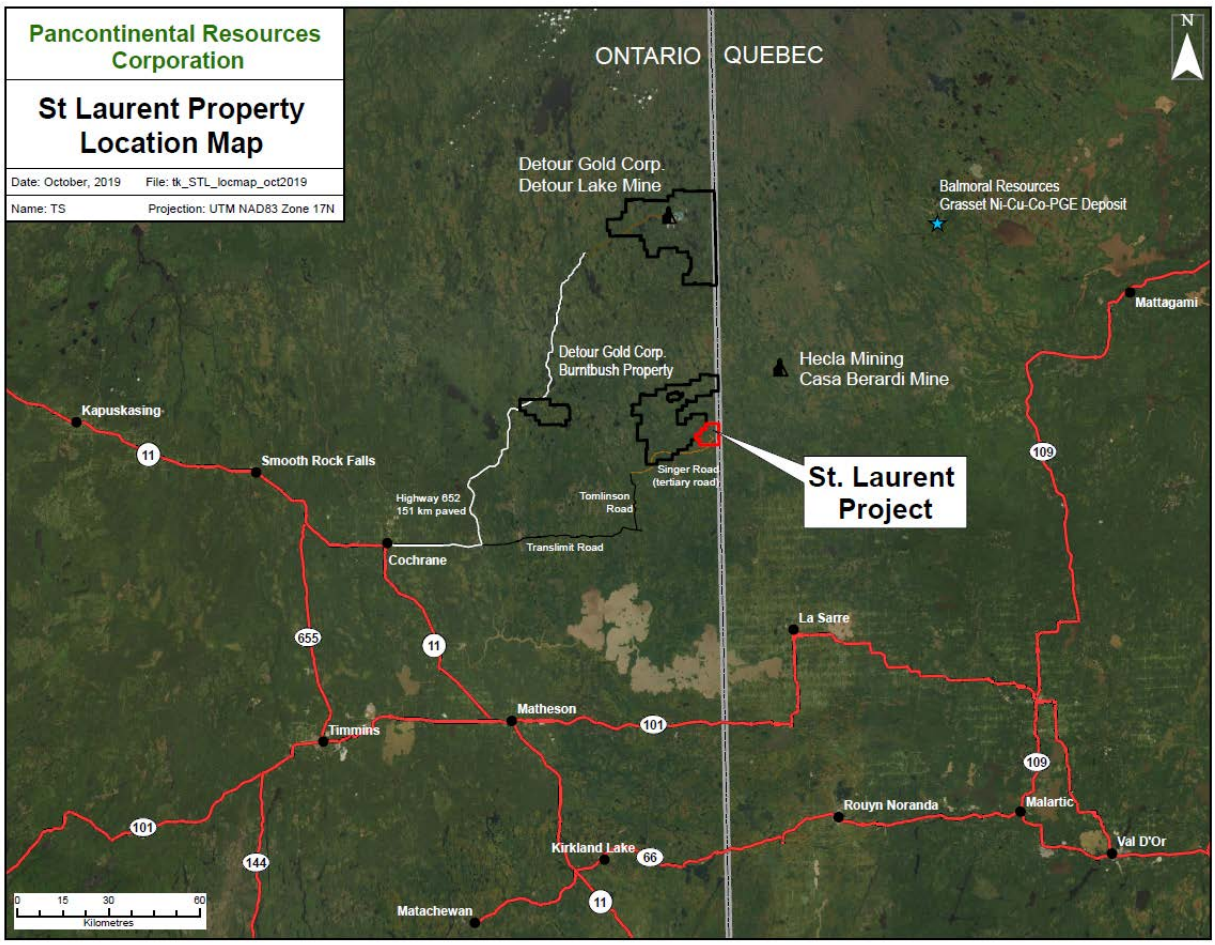


Figure 1: The location of Pancontinental Resources Corporation's St. Laurent property. The property boundary is indicated by the red polygon.

Property Background:

The property was mapped by G.W.Johns (1982). The geology of this portion of the Abitibi Greenstone Belt consists of east west trending arcuate belts of mafic to felsic volcanic rocks which are intruded by several large granitic plutons. Thick sedimentary belts occur on the margins of the volcanic terrains, and the volcanic units are intercalated with volumetrically minor amounts of detrital sedimentary rocks and iron formations. In the immediate St. Laurent property, areas of outcrop are documented from past industry mapping programs (Asarco 1970). Volcanic rocks are

mapped with a mafic to dacitic composition. Diorite and gabbro intrusions are identified through the volcanic succession. Outcrop exposure of one of the intrusions occurs along the Patten River, however its extent is largely interpreted from an extensive magnetic anomaly defined by airborne geophysical survey.

Deposit Type:

The exploration target on the St. Laurent project is magmatic nickel sulphides (Fig. 2). The project was generated based upon the assay results from a previous operator, which indicated the presence of anomalous Ni, Cu, Au, Pt Pd, and Co, associated with sulphides within a gabbro intrusion of unknown size. A strong unexplained airborne EM anomaly has been identified along a 600 meter strike extent that is coincident with the surface projection of the anomalous sulphide mineralization and presents a significant exploration target.

Figure 2: Sulphide Breccia SL-08-01 63.6m

Re-logging drill core from past project operators suggests the presence of a particular rock texture—Gabbro Breccia—that is found in a sub-group of Ni-Sulphide deposits which includes: Lynn Lake Nickel Deposit, Kenbridge Nickel Deposit, and Montcalm Nickel deposit (Fig. 3).

Figure 3: Gabbro Breccia Sl-08-01 78.0m

The purpose of the PUC 2019 diamond drilling program was to test the along strike and down dip extent of the Ni-sulphide mineralization, and to explain the airborne EM anomaly.

Regional Geology:

The St. Laurent Project is situated within the Burntbush Area of the Abitibi greenstone belt of Ontario. The Burntbush Area is bounded to the north and the west by a massive granitoid intrusions of the Opitaca Subprovince. It is bounded to the south by Case and Mistawak batholith. The Burntbush assemblages continue east into Quebec. The Burntbush area is made up of the Adair, Noseworthy, Blakelock, Bradette and St. Laurent assemblages.

The St. Laurent assemblage, within which the project is located consists of a mixture of tholeiitic basalts and andesites. The units are rich in iron and magnesium. The volcanic units are massive, pillowed, feldspar-megacrystic or fragmental. There are minor ultramafic units present in the assemblage. Pillowed basalts in the western end of the assemblage dip steeply facing south. The pillowed basalts in the eastern end of the assemblage face north and east.

The Adair assemblage is composed of a mixture of tholeiitic basaltic metavolcanics, and calc alkalic intermediate to felsic meta-volcanics. The basalts include massive, amygdaloidal,

pillowed and coarse grained (1 to 3 cm) feldspar-megacrystic flows. The intermediate to felsic meta-volcanics include quartz- and feldspar-phyric, massive flows and fragmental rocks. The assemblage trends northwest-southeast crossing into Quebec. Structures (penetrative foliation) strike northwesterly, parallel to the overall trend of the assemblage. Regional metamorphism is generally, within the upper green-schist/lower amphibolite facies. The Adair assemblage is on strike with the past producing Norrnetal Mine, a volcanogenic massive sulphide base metal deposit (Cu-Zn). This was hosted within the felsic volcanic horizon. The Bradette assemblage is composed of calc-alkalic dacitic and rhyolitic tuffs and breccias, with flows interlayered with carbonaceous metasedimentary units.

Economic Geology:

The St. Laurent Project does not host concentrations of minerals which could classified the resource or reserve categories. Limited geological mapping, geophysical surveys and brief diamond drill programs encompass much of the past work. The nature of such previous exploration work is classified as grass roots type work.

The Detour Lake Gold Mine (115.8 Mt @ 1.13 g/t measured and indicated) is situated 72 km north of the St. Laurent Property in the Sunday Lake assemblage. Detour Gold Corporation also holds a significant land position north and west of the St. Laurent project extending across parts of several townships. Aurelius Minerals Inc. holds the Mikwam Deposit (1.81Mt @ 2.34 g/t, inferred), a gold property approximately 18 km N/NW of St. Laurent project, Tri Origin Exploration Ltd. the North Abitibi property gold exploration property 30 km NW, and Lasalle Exploration Corp. holds their recently acquired gold exploration property (Blakelock property) 40 km W/NW of the St. Laurent project. Hecla Mining Company operates the Casa Berardi gold mine (23.743 Tons @ .08 oz/ton, proven & probable), which is located 33 km NE of the St. Laurent Project in Quebec.

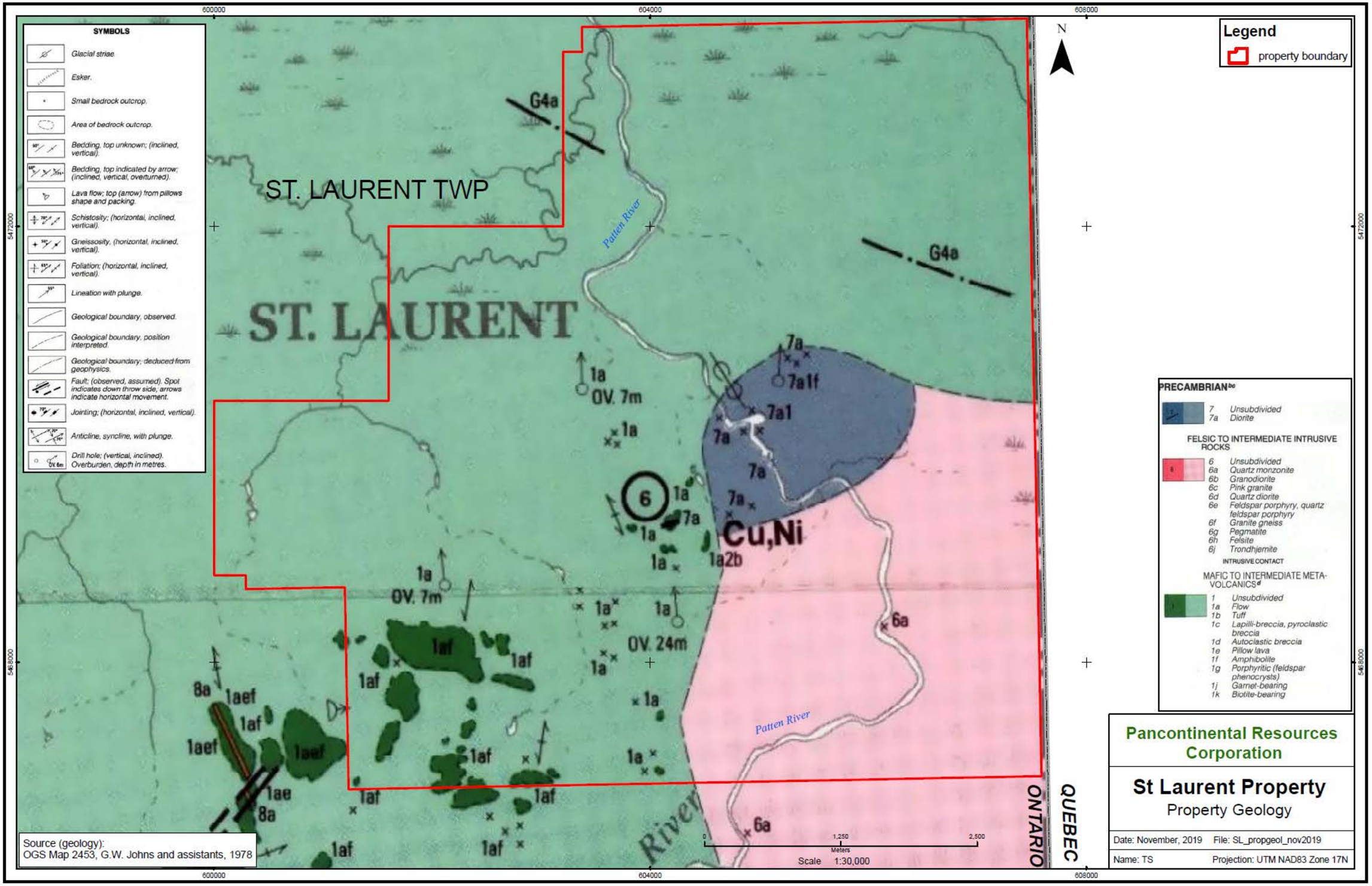


Figure 4: A geology map for Pancontinental Resources Corporation's St. Laurent Property.

Property History:

1965 - Rio Tinto Canadian Exploration Ltd.

A largescale program of ground geophysics including magnetic, electromagnetic, and gravity surveys were completed. These surveys took place in the Hurtubise, Bradette, Noseworthy and St. Laurent townships.

1965-1966 - R. S. Gray

Performed airborne electromagnetic surveys, ground based magnetometer surveys and geological mapping within the central area of the current property. Seven drill holes totalling approximately 1,081 meters (3548‘) were drilled within this surveyed area. Drill logs for these holes do not include assay results; however, intersections were recovered from cross sections which indicated that a 24 m wide zone of nickel-copper-sulphide (0.47% nickel and 0.36% copper) was identified during the program. Additionally, it is suggested in assessment reports that Asarco Exploration Company of Canada optioned the property and completed an additional six holes. These hole locations are indicated on an Asarco geological map, but drill logs were not retained.

1970 - Asarco Exploration Company of Canada Ltd.

Drilled four diamond drill holes, totalling approximately 411 meters (1350′), throughout the southern extent of the property following electromagnetic and magnetometer surveys over the area. These holes were planned to test weak horizontal loop electromagnetic anomalies. The geological report described the holes as, “extremely disappointing as very little mineralization was encountered.” The author goes on to state that, “. . . the Andesite-Diorite Complex, contains disseminated and massive nickeliferous pyrrhotite, chalcopyrite mineralization. The grade of this mineralization approaches economical values, but the deposit is far too small to be considered economic. Deep diamond drilling could improve this picture.”

1983 - Newmont Exploration Canada Ltd.

Flew electromagnetic and magnetometer surveys over a 481 line-kilometer grid over Hurtubise and St. Laurent townships, cover much of the northern extent of the current property. Detailed geological mapping was also completed following interpretation of these surveys. The electromagnetic survey detected a bedrock type conductor directly associated with a well isolated magnetic high, located near the most North-western boundary of the current property. It was suggested that the anomaly should be further examined for possible gold and sulphide mineralisation given its similarity to the geological setting of Detour Gold.

1986 - Glen Auden Resources Ltd.

Flew a 456.17 line-kilometer electromagnetic and magnetometer surveys over the Bradette and St. Laurent Townships which included the northern 2/3 of the current property. The survey outlined several discrete bedrock conductors which were believed to warrant further investigation. Follow-up diamond drilling occurred in 1988.

1987 - Abagold Resources Ltd.

Commissioned Questor Surveys Ltd. to conduct airborne magnetic and MARK VI INPUT surveys over an area contained to the northwestern aspect of the current property (along the most North-western property boundary). Three definite bedrock targets were identified and were recommended as targets for follow-up line-cutting and ground geophysics to locate to better define these anomalies.

1987 - Orsina Resources Ltd.

Approximately 69.17 kilometer (42.98 mi) of gridline was cut to facilitate magnetometer and induced polarization surveys over 36 claims that include a small northwesterly section of the current property. These surveys identified anomalies that led to follow-up diamond drilling, although this occurred beyond the current property boundaries.

1987 - Noranda Exploration

Commissioned Questor Surveys Ltd. to conduct an aeromagnetic survey over a large land package, approximately 2390 line-kilometers (1485 line-mi), that included the nearly the entire extent of the current property (excluded some southern units). The results of the survey suggested that two iron formations, within close proximity, dominated the magnetic data in the map area and were the only rock units that can be inferred.

1988 - Tarzan Gold Inc.

Performed electromagnetic, induced polarization, and magnetometer surveys over an area that includes small northern sections of the property (central and eastern areas in the northern most extent, claims were not contiguous). These surveys identified targets for follow-up diamond drilling, although this occurred over a kilometer of the current property boundary.

1988 - Glen Auden Resources Ltd.

Completed four diamond drill holes (419.8 m) based on targets from their 1986 surveys, as well as from surveys conducted by Tarzan Gold Inc in the same year (1988). Of these four holes, only one was drilled on the current property (TCH88-04; 105 m) to follow up on a weak IP chargeability anomaly. This hole reportedly intersected intermediate to mafic/ultramafic porphyritic flows containing minor interflow metasedimentary rocks; producing no significant assay results.

2004 - Falconbridge Ltd.

Conducted electromagnetic and magnetometer surveys a large central region of the current property. A more detailed airborne follow-up, using Geotech's VTEM system, was completed over targets selected from the broad survey.

2006 - Falconbridge Ltd.

A prospecting program was planned to follow-up on anomalies from their 2004 surveys. No significant mineralization among samples that were collected away from historical showings were reported.

2007 - Eastmain Resources Inc.

Commissioned Fugro Airborne Surveys to complete electromagnetic and magnetometer surveys over a large central region of the current property. Survey results indicated a strong magnetic and electromagnetic body that was interpreted as being a possible broad body.

2008 - Eastmain Resources Inc.

Commissioned EDS Drilling Services for a follow-up diamond drill program (3 holes, 604 m) to test the anomalous features identified during their 2007 surveys, while also attempting to confirm the mineralization intersected by Asarco in 1970. Their hope was that, "better geophysical techniques coupled with improved analytical procedures would help to better define an economical deposit." Their drilling and assay results reportedly confirmed the presence of a broad low-grade nickel copper mineralized zone within a meta-basalt, that requires more work to demonstrate its economic potential.

2019 – Pancontinental Resources Incorporated

Completed an orientation-type soil survey, and minor geological mapping and rock sampling program. The soil survey consisted of best-effort B horizon sampling, with samples collected at 25 m spacing along virtual GPS grid lines that themselves were spaced at intervals of 100 m. A total of 47 soil samples were collected. The purpose of the soil geochemical survey was to attempt to confirm historical results from a previous exploration company, thereby confirming the effectiveness of the exploration technique for more widespread application across the property in the future. Known anomalous Ni-Cu mineralization from historical drilling would also be evaluated as an orientation survey type evaluation.

Geological mapping and sampling were completed over two select areas of the St. Laurent Property. The purpose of the mapping was to confirm the major rock units in the area adjacent to the historical anomalous Ni-Cu mineralization reported in drilling, and at a second location to locate and sample an historical poorly documented gold occurrence. A total of 10 grab samples and 2 heavy mineral concentrates were collected from these areas.

Ontario Government:

The Ontario Geological Survey, and its previous entities, have completed several regional type geological and geophysical surveys which include the St. Laurent property. A listing of these programs includes:

- ARV27 - Twenty Seventh Annual Report of the Ontario Bureau of Mines, 1918
- ARV45-06 - Forty Fifth Annual Report of the Ontario Department of Mines, 1936, Part VI
- OFR5279 - Geology of the Burntbush- Detour Lakes Area-1979
- P0373 - Burntbush River Sheet
- Map2452 - Burntbush-Detour Lakes, 1981
- P1558 - Preliminary Map, St, Laurent Twp., 1978
- P2243 - Preliminary Map Burntbush-Detour Lake Area (Southern Part)

Diamond Drill Program

Overview:

The diamond drill program was completed between September 10, 2019 and September 30, 2019. The drill program consisted of four NQ sized drill holes for a total of 1,731metres (see Tab. 1). The purpose of the drill program was to evaluate a historical nickel copper showing with an associated electromagnetic response. NPLH Drilling was contracted for the project. A drill camp and staging area were set up at a point 31 kilometers north on the Tomlinson Road within the area covered by mining claim 551428, on a flat sandy clearing at UTM co-ordinates 17U 576400E 5467800N. The camp location is registered with the Ministry of Natural Resources in accordance with Section 5(2)3 of O. Reg 239/13 of the Public Lands Act for the construction or placement of building(s) within unpatented mining claims (MNR Confirmation ID M-150-6322362803). Drilling equipment and personnel were then mobilized easterly approximately 27 kilometers to the property via helicopter (Expedition Helicopters Inc.) based out of Cochrane, ON. A suitable landing site was located near the drilling pads (UTM: NAD83 17U 603442E 5469377N) for drilling crew shift changes. The diamond drilling project is authorized by issue of Exploration Permit No. PR-19-000042 effective from 2019/04/25 to 2022/04/25 for the following activities: (Airborne Geophysical Survey (AA), Geophysical Survey Requiring Generator Type, Ground Geophysical Surveys without a generator (GS), Line Cutting (<1.5m width), Mechanized Drilling (Assembled Weight >150kg), Trails (TS)).

Core logging and splitting was completed at the drill camp location. Core was then transported to Timmins for storage. Todd Keast P.Geo completed the core logging, Nick Tadeus and Bob Bailey completed geotechnical work, and Nick Tadeus completed the core sawing. Split core for analysis were delivered to the ALS facility in Timmins.

Historical Drilling: Two historical phases of drilling were completed in the immediate area of interest in the past, R.S Gray (1965), Eastmain (2008). PUC was able to locate in the field several drill casings and the old core shack from the 1965 program. These features were recorded on a 1970 Asarco geological map. The map was geo-referenced and UTM locations were created for the remainder of the 1965 series drill holes. PUC was able to locate the casings and setups for all three of the Eastmain 2008 drill holes. In addition, PUC was able to locate the Eastmain 2008 drill core and relogged the core. The details of the drill hole compilation are included in Table 1.

Table 1: Diamond drill hole table (DDH) indicating the location of each drill collar in Universal Transverse Mercator (UTM) co-ordinates (NAD83 UTM Zone 17), elevation (Elev.), azimuth (Az.), dip, planned and actual hole depth (EOH); and the number of samples assayed to quantify: nickel, copper, cobalt, sulfur, gold, platinum and palladium content. Data is shown for drill holes drilled in Pancontinental Resources Corporation's (PUC) current program, as well as from historical drilling on the property.

BHID	Company	Year	Cell Mining Claim #	UTM (m)		Elev. (m)	Az (°)	Dip (°)	EOH (m)	Number of Samples		Program EOH Totals
				East	*North*					*Core‡*	*Total‡‡*	
SL-19-01	PUC	2019	237156	603778	5469185	291.8	330	-60	471.0	59	64	-
SL-19-02	PUC	2019	237156	603778	5469185	291.8	330	-75	441.0	30	33	-
SL-19-03	PUC	2019	237155	603963	5469306	288.0	330	-60	477.0	132	145	-
SL-19-04	PUC	2019	237156	603615	5469107	290.1	330	-45	342.0	11	13	**1731.0**
SL-08-01	Eastmain	2008	323406	603680	5469279	292.0	330	-55	158.4	104	-	-
SL-08-02	Eastmain	2008	323406	603719	5469301	292.0	330	-55	227.2	74	-	-
SL-08-03	Eastmain	2008	323406	603750	5469246	289.0	330	-55	218.3	76	-	**603.9**
PA-1	R.S Gray	1965	323406	603659	5469420	286.4	140	-45	90.5	-	-	-
PA-2	R.S Gray	1965	323406	603609	5469410	287.7	165	-45	122.2	-	-	-
PA-3	R.S Gray	1965	323406	603537	5469390	290.1	150	-45	189.3	-	-	-
PA-4	R.S Gray	1965	323406	603590	5469468	285.5	155	-50	159.7	-	-	-
PA-5	R.S Gray	1965	323406	603718	5469303	290.4	330	-45	93.2	-	-	-
PA-6	R.S Gray	1965	323406	603508	5469445	288.8	150	-50	246.6	-	-	-
PA-7	R.S Gray	1965	323406	603746	5469258	291.0	330	-45	179.8	-	-	**1081.3**
PB-1	Asarco	1970	139081	605103	5470480	278.2	12	-50	86.3	-	-	-
PD-1	Asarco	1970	262780	603805	5468476	291.3	12	-45	111.3	-	-	-
PE-1	Asarco	1970	211169	603200	5470357	283.2	12	-45	106.7	-	-	-
PX-1	Asarco	1970	322720	602135	5468850	290.1	12	-45	106.9	-	-	**411.0**
								Grand Total ‡‡‡		**232**	**255**	**3827.3**

‡ Core: the number of half-core samples that were collected and assayed from each drill hole
‡‡ Total: the number of samples assayed from each drill hole, including half-core samples and quality assurance/quality control standards.
‡‡‡ Grand Total: The grand total for the number of samples collected does not include samples from Asarco, Eastmain, or R.S. Gray.

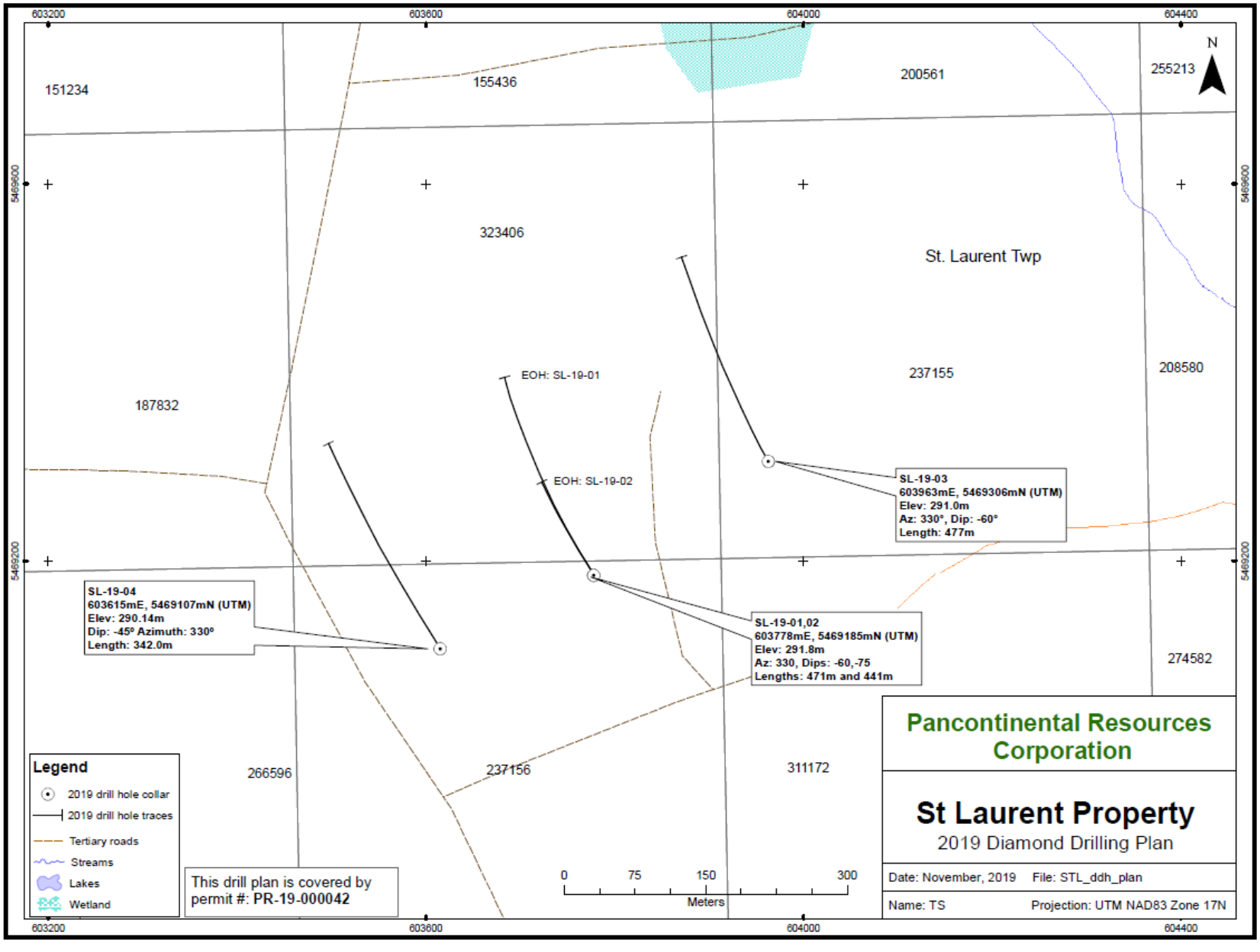


Figure 5: A drill plan for Pancontinental Resources Corporation's 2019 exploratory diamond drilling project on the St. Laurent property.

SURFACE

CLM#
187832

CLM#
323406

CLM#
237156

SL-19-04
603615mE, 5469107mN (UTM)
Elev: 290.14m
Az: 330, Dip: -45

CAS
MVOLC
IDIKE
GABxln
ARG
ARGsilic
GABshr
ARG
GABxln
ARG
GABxln
ARG
GABxln
GABshr
GABxln
GABxln
GAB
GAB
IDIKE
FDIKE
GAB
GAB
IDIKE
GAB
IDIKE
GAB

SL-19-04
EOH: 342.0m

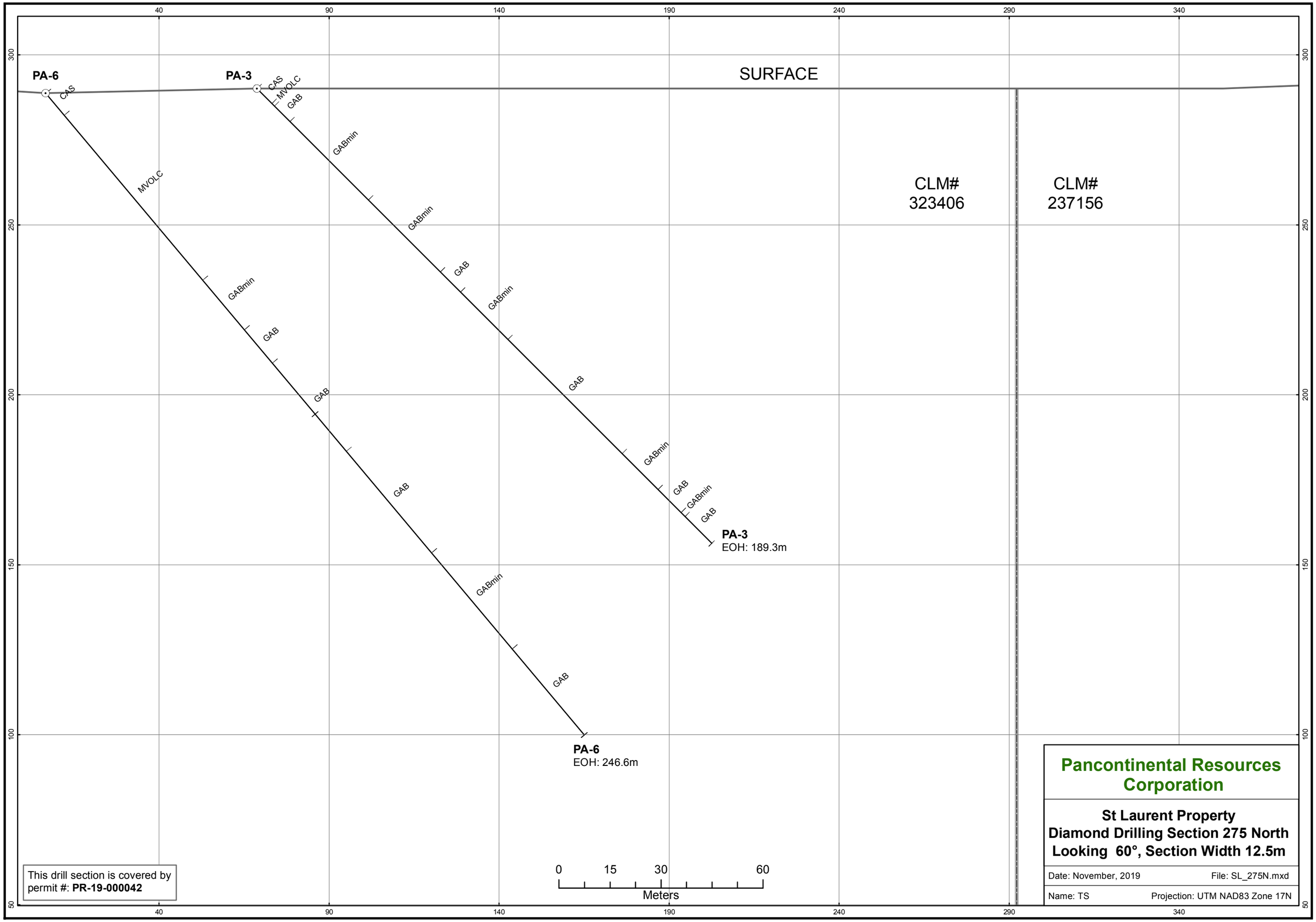
0 15 30 60
Meters

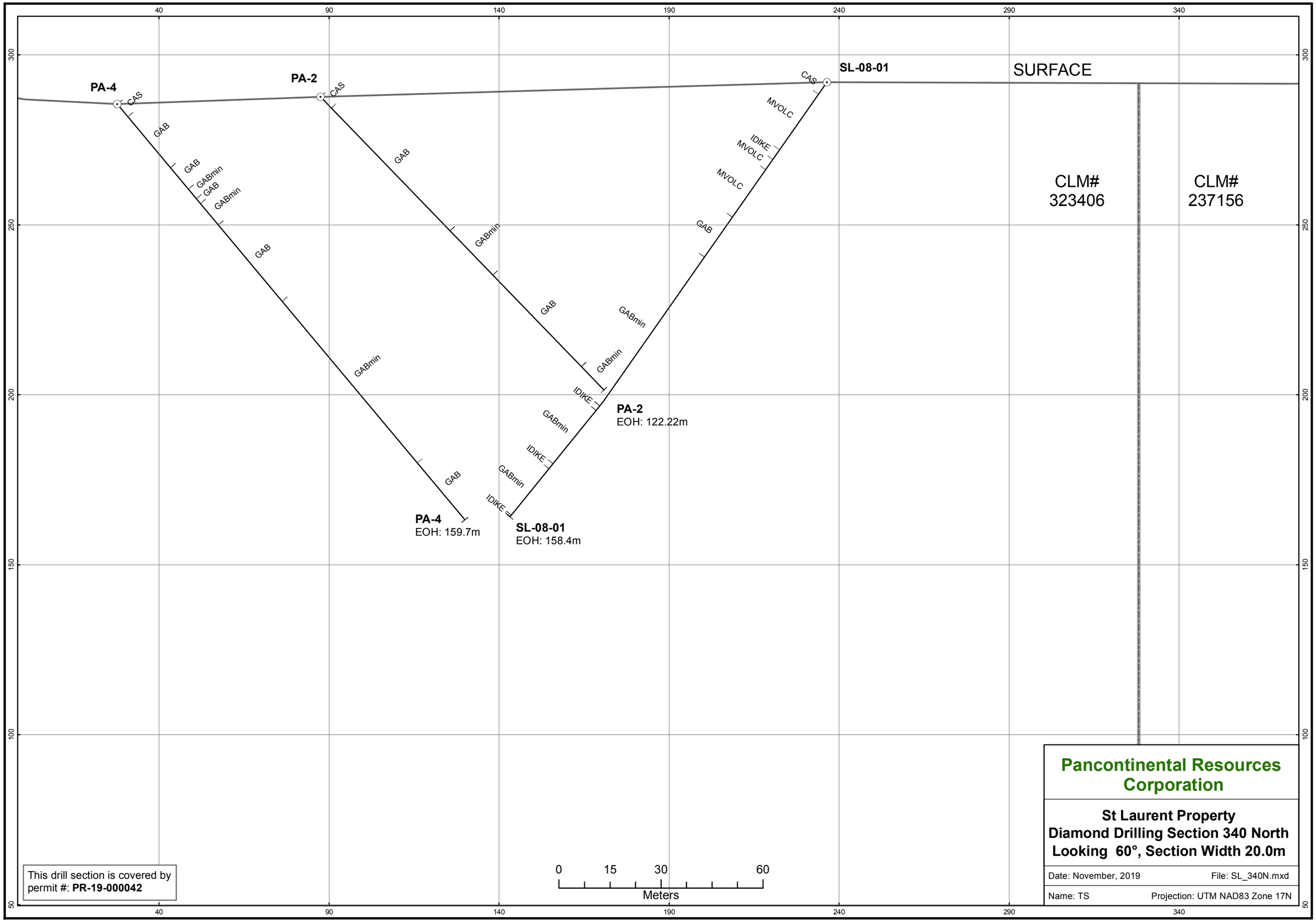
This drill section is covered by permit #: **PR-19-000042**

Pancontinental Resources Corporation

St Laurent Property
Diamond Drilling Section 200 North
Looking 60°, Section Width 12.5m

Date: November, 2019 File: SL_200N.mxd
Name: TS Projection: UTM NAD83 Zone 17N


40
90
140
190
240
290
340
300
250
200
150
100
50
PA-6
PA-3
SURFACE
CAS
MVOLC
GAB
GABmin
CLM#
323406
CLM#
237156
PA-3
EOH: 189.3m
PA-6
EOH: 246.6m
0
15
30
60
Meters
This drill section is covered by permit #: PR-19-000042
Pancontinental Resources Corporation
St Laurent Property
Diamond Drilling Section 275 North
Looking 60°, Section Width 12.5m
Date: November, 2019
File: SL_275N.mxd
Name: TS
Projection: UTM NAD83 Zone 17N



This drill section is covered by permit #: **PR-19-000042**

Pancontinental Resources Corporation

St Laurent Property
Diamond Drilling Section 340 North
Looking 60°, Section Width 20.0m

Date: November, 2019 File: SL_340N.mxd

Name: TS Projection: UTM NAD83 Zone 17N

SURFACE

SL-19-01,02
603778mE, 5469185mN (UTM)
Elev: 291.8m
Az: 330, Dips: -60,-75

PA-1
PA-1
EOH: 90.52m

PA-5
PA-5
EOH: 93.2m

SL-08-02
SL-08-02
EOH: 227.2m

PA-7
PA-7
EOH: 179.8m

SL-08-03
SL-08-03
EOH: 218.3m

SL-19-01
EOH: 471.0m

SL-19-02
EOH: 441.0m

CLM#
323406

CLM#
237156

This drill section is covered by permit #: **PR-19-000042**

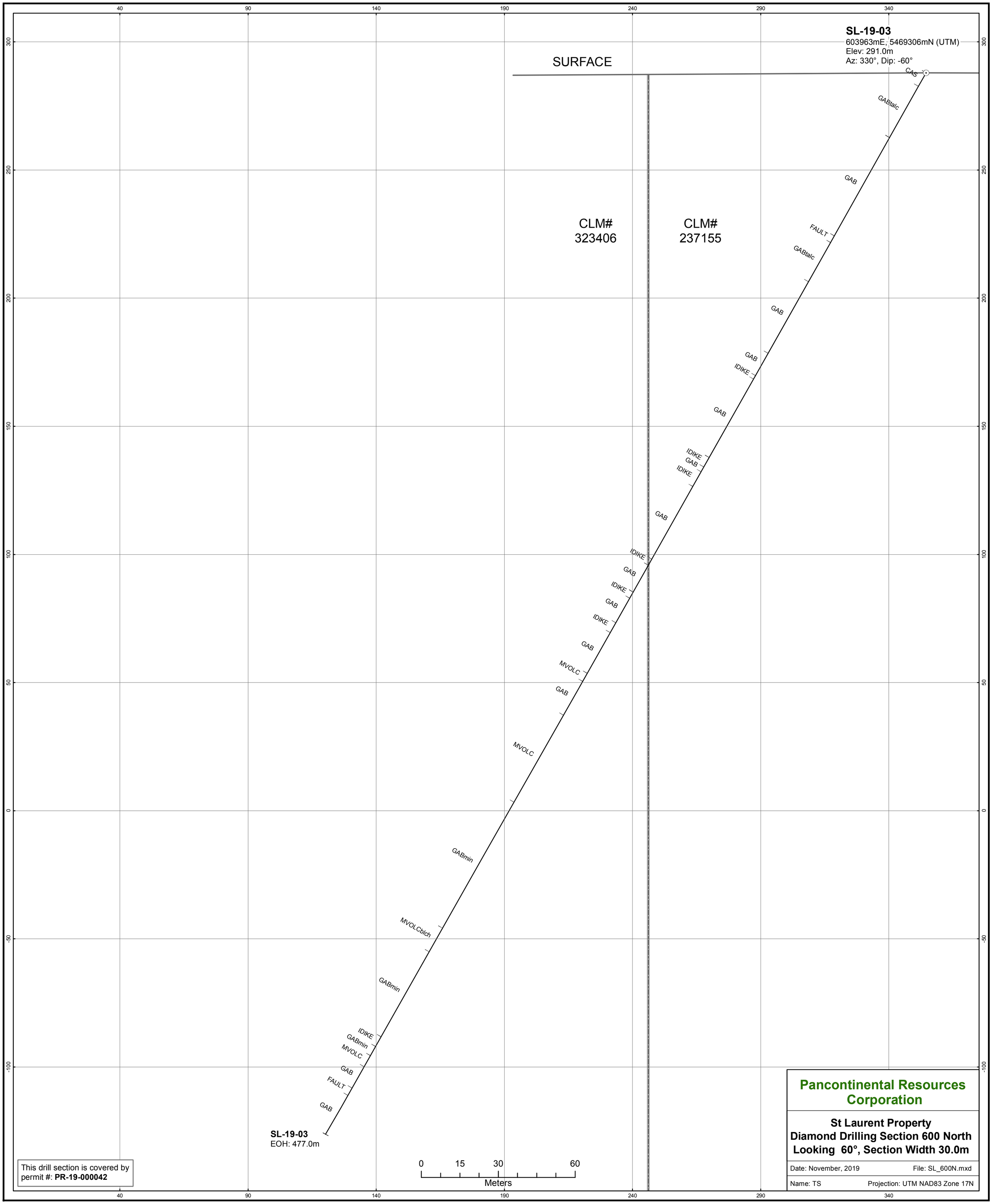
0 15 30 60
Meters

Pancontinental Resources Corporation

St Laurent Property
Diamond Drilling Section 385 North
Looking 60°, Section Width 20.0m

Date: November, 2019 File: SL_385N.mxd

Name: TS Projection: UTM NAD83 Zone 17N



This drill section is covered by permit #: **PR-19-000042**

Pancontinental Resources Corporation

St Laurent Property
Diamond Drilling Section 600 North
Looking 60°, Section Width 30.0m

Date: November, 2019 File: SL_600N.mxd

Name: TS Projection: UTM NAD83 Zone 17N

Prior to the 2019 drilling program, drill core from the Eastmain 2008 program was relocated and relogged. The evaluation of the 2008 drill core provided valuable insight as to the main, and general, geological units that are hosting mineralization. Drill logs for the relogging of the 2008 drilling were re-interpreted with standardized lithologies. Drill logs for the 1965 P.S. Gray drilling were available for review, however assay results were not included in the drill records. Following the 2019 drill program, the re-logging of the 2008 drill core and the creation of standardized lithologies, drill sections were generated to include the 1965, 2008, and 2019 drill holes. Standardized lithology codes were applied based on the descriptions in the logs and the recent experience logging core on the project.

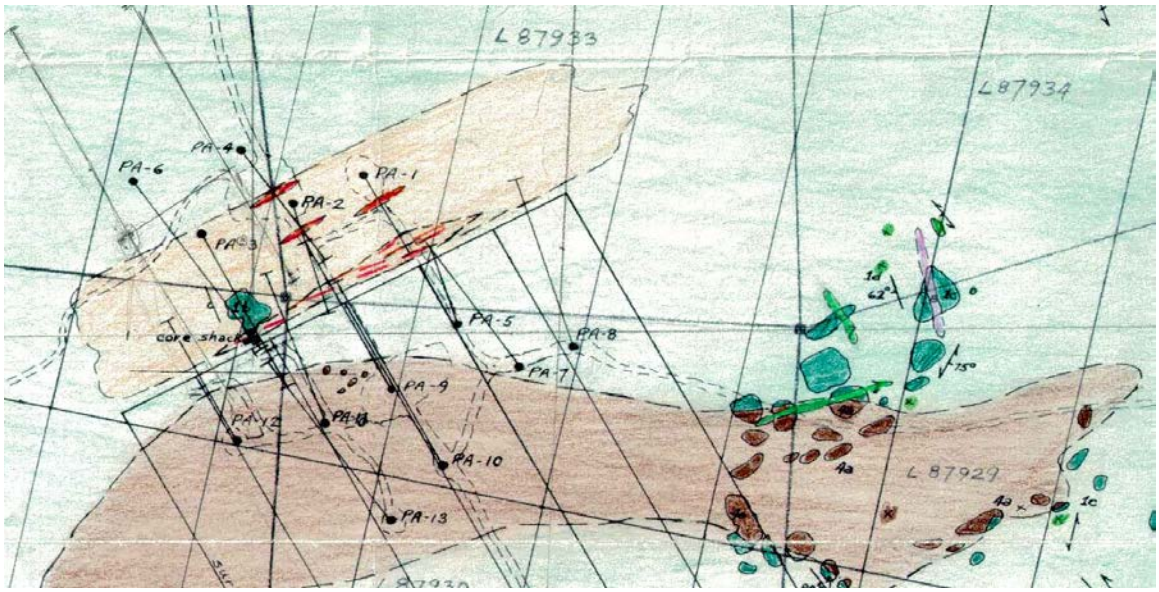


Figure 6: A portion of the Asarco geological map used to locate outcrops of interest, Asarco's historical core shack, and the PA series DDH locations.

Figure 7: Drill casing from the 1965 R,S.Gray drill program located at UTM: NAD83 17U 603677E 5469253N.

Figure 8: Remnants of core racks and drill core from Asarco Core Shack UTM: NAD83 17U 603573E 5469279N.

2019 Drill Program Procedures:

Core Processing: Drill core was delivered from the drill to the core logging camp site. Core was rolled within the core boxes to provide a consistent view/cutting orientation with respect to the preferential fabric. This early step provides a consistent orientation of the core for the viewing/photographing and eventual sampling. Core was measured from block to block with wax crayon marks placed at every half metre interval. Core measuring and marking is done to ensure accurate depth of drill hole and to provide an accurate framework for the subsequent collection of the various data elements of core logging. Drill logs (see App. B for examples of logs) were complied by recording metrics such as: lithological units, mineralization, structure, magnetic susceptibility, specific gravity, rock quality designation, reflex tests, and sample descriptions of core chosen for assay. A complete photo record of the drill core (dry & wet) was also collected. Data collection procedures for each metric within the core logs are outlined below.

Lithologies: Rock lithologies with an abbreviation code and brief description were recorded during the core logging. The lithologies are based on visual characteristics and features observed in the drill core. In some instance the rock units are supported by the magnetic susceptibility results and/or specific gravity results characteristic of the individual unit. Lithologies are recorded in the drill log spreadsheet (see App. B). Lithologies are best effort field names and not based on major element analysis of the units.

Downhole Survey: Downhole Reflex surveys were taken at approximately 50 m intervals. The density of readings was deemed to be sufficient given that there was minor drill hole deviation. Downhole survey results are recorded in the drill log spreadsheets (see App. B).

Magnetic Susceptibility: Magnetic Susceptibility readings were collected at random depths along the core. The purpose of the measurements was to identify a possible magnetic signature for each geological unit. Such a signature was assessed by a ranked-regression linear model (given the non-normal nature of the MS data at the lithological level) where magnetic susceptibility was modelled by lithology. A Tukey's HSD post hoc test was performed given that lithology was considered a significant predictor of magnetic susceptibility. Magnetic susceptibility standards were incorporated in the data collection to ensure the reliability of the measurements. Magnetic Susceptibility results are recorded in the drill log spreadsheets (see App. B).

Specific Gravity: Specific Gravity measurements were completed on select pieces of drill core to represent all lithologies. The purpose of the measurements was to provide a Specific Gravity signature for the different lithologies. Such a signature was assessed by a ranked-regression linear model (given the non-normal nature of the SG data at the lithological level) where specific gravity was modelled by lithology. A Tukey's HSD post hoc test was performed given that lithology was considered a significant predictor of specific gravity. Specific Gravity standards were incorporated in the data collection to ensure reliability of the measurements. Weight standards were incorporated in the procedure to ensure that the scale was accurate throughout the data collection. Specific Gravity results are recorded in the drill log spreadsheets (see App. B).

Core Angles: Foliation measurements, contacts, and fault orientations were recorded as part of the logging process and recorded in the drill log spreadsheets (see App. B).

Rock Quality Designation: Rock Quality Designation (RQD) estimates and the core recovery estimate were completed. RQD and core recovery results are recorded in the drill log spreadsheets (see App. B).

Sample Intervals: Core samples selected for analysis were marked with wax crayon indicating the start and end of each sample interval. The sample depths, lengths and intervals were recorded in sample ticket books with each sample assigned a unique sequential sample number. One portion of the sample ticket with the unique sample number was stapled in the core box at the start of the sample. Sampling information is recorded in the drill log spreadsheets (see App. B).

Core Photographs: All drill core was photographed. Core was photographed dry and wet. Drill core photos are not submitted with the assessment report but are retained by the company as part of the record of diamond drilling. In addition, the 2008 Eastmain core was photographed while re-logging.

Assays: Assay results are included for select elements of interest on the Sample Tab of the drill log. Complete assays are available in the droll logs found in Appendix B, and are also found in the assay certificates within Appendix C.

Sample Collection and Assay:

Samples sent for assay were collect by halving drill core along the core axis using a water-lubricated masonry saw and diamond tipped saw blade. Both halves of the drill core were rinsed with water to remove excess cuttings. One half of the core was then returned to the core box, while the other was allocated to a labelled sample bag, specific to that sample interval. Sample intervals, ranging from 0.5 – 1.5 meters, were chosen in areas of interest and were selected in order to best separate contrasting sulfide contents or lithological contacts. Once a sample interval was split, an assay tag was added to the sample bag for that interval, and the sample bag was then sealed. Assay tags were also stapled into core boxes at the beginning of each sample interval. Sample bags were then sealed in rice bags for shipment to the ALS Chemex assay laboratory in Timmins, Ontario. All samples were prepared following ALS Chemex's PREP-31 protocol. Samples from SL-19-01, -02 and -03 were assayed for gold, platinum and palladium following the PGM-ICP23 assay protocol; whereas nickel, copper, cobalt and sulfur contents were quantified using ICP-41 assay protocols. Samples from SL-19-04 were solely assayed for gold following the Au-AA24 protocol.

Quality Assurance and Quality Control:

Assay QAQC: Standardized and blank samples were included among core samples to assess the accuracy of the assay lab (in addition to the lab's own standards). One of each, a standard and a blank, were included for every 10-15 half-core samples. Two sets of standard materials (OREAS 13b and OREAS 14p) were purchased from Ore Research and Exploration which contained known concentrations of: nickel, copper, cobalt, sulfur, gold, platinum and palladium (see App. A: Tab. 1 & 2 for the mineral contents of OREAS 13b and 14p, respectively). The lab was considered to have failed a standard if the reported mineral concentration was three standard deviations (indicated by the standard provider) less than, or greater, than the certified value. Blank materials consisted of quartz landscaping stones purchased from a local hardware store. The lab was considered to have failed a blank if the reported mineral content was several times greater than the lower limit of detection (LLOD).

A small number of standard failures occurred where cobalt values were found to be outside the acceptable range (App. A: Tab. 1 & 2). Such failures were more frequent for OREAS 13b standards than they were for OREAS 14p, suggesting that the labs accuracy may be poorer for

lower concentrations of analytes with respect to cobalt. No standard failures were observed for any of the other analytes among OREAS 13b and OREAS 14p, both. There were no instances of blank failures (App. A: Tab. 5); although, some copper and nickel values were observed to be slightly greater than the LLOD. However, these concentrations were less than 0.0025% and were likely the result of accurate quantification of anomalous copper and nickel present within the blank material, rather than cross contamination between samples during sample preparation or assay.

Sample duplicates were prepared by ALS were separate assays were conducted on pulp splits of the same sample (see App. A: Tab. 3 for the raw concentration data for these duplicates). The relative standard deviation (RSD; or intraassay-coefficient of variance) was calculated for each duplicate set and an average RSD was calculated for the PGM-ICP23 (Mean = 6.22) and ICP-41 (Mean = 1.50) protocols (see App A: Fig. 4). The RSD for both protocols were found to be acceptable (< 10.0), although the mean RSD for PGM-ICP23 assays was slightly elevated given that there were a few instances where analyte concentrations were very close to the LLOD, where the assay lacks precision by nature.

Magnetic Susceptibility QAQC: Magnetic susceptibility (MS) readings were recorded using a Terraplus KT-5 Magnetic Susceptibility Meter. To ensure the precision and accuracy of the MS data throughout the program, readings were taken every 10-20 sample readings from one of four MS in-house created standards (MS-1, MS-2, MS-3, MS-4). Precision was monitored by assessing relative standard deviation (RSD) of each standard (RSDs greater than 5% were considered imprecise), while accuracy was assessed by monitoring anomalous readings (i.e., readings that were two standard deviations less than, or greater than, the mean). The RSD for MS-1, MS-3 and MS-4 (2.8%, 3.1% and 2.4%, respectively, see App. A: Fig. 1 for histograms of the distribution of measurements for each standard) indicated acceptable precision, while acceptable accuracy was indicated given that there were few anomalous values among these standards (App. C: Tab. 4). There were also few anomalies for MS-2, although this was likely the result of its high RSD (51.7%). This suggests that the MS values recorded during the program which were less than 1.00 lack precision and accuracy, whereas readings were more reliable for MS values greater than 1.00.

Specific Gravity QAQC: Specific gravity (SG) was determined using an Ohaus Scout SJX 1502N/E Balance to measure the dry and wet weight of core samples (taking duplicate measures

of both). SG was then calculated as the dry weight over the difference between the dry and wet weighs. To ensure the precision and accuracy of the SG measurements throughout the program readings were taken from one of four SG standards (SG-1, SG-2, SG-3, SG-4) for every 5-10 sample measurements. The accepted specific gravity measurements for SG standards were determined by ALS Chemex. Precision and accuracy were assessed as described above for MS QAQC, where it was found that SG measurements were highly precise and accurate for SG standards (App. A: Tab. 6 for a comparison of accuracy among standards and App. A: Fig. 2 for histograms of the distribution of measurements for each standard).

Drill Site Documentation:

Drill sites were revisited once the drilling equipment had been moved to the next drill location. A run of drill collar casing was left in place for each hole, and these casings were sealed and labelled with a combination metal cap and 1.5-meter metal marker flag. Drill collars were once more surveyed with a handheld GPS unit. Photographs of all drill sites were taken. Any debris was collected and removed from the drill site.

Results of the 2019 Drill Program:

Major Lithological Units – The major units used in the core logging were determined from visual features recognizable in the core, and the previous experience of the geologist having worked on similar projects. In some cases, the magnetic susceptibility measurements and/or specific gravity measurements provide support for the division of units (see Fig. 9 & 10, and App. A: Fig 3 for statistical data). Most notably, mineralize gabbro (Gabmin) had significantly greater magnetic susceptibility (Fig. 9) and specific gravity (Fig. 10) readings when compared to all other lithologies. The Lithology names are not based on chemical analysis of the individual units. Lithology names are intended as “Field Use” best effort rock names.

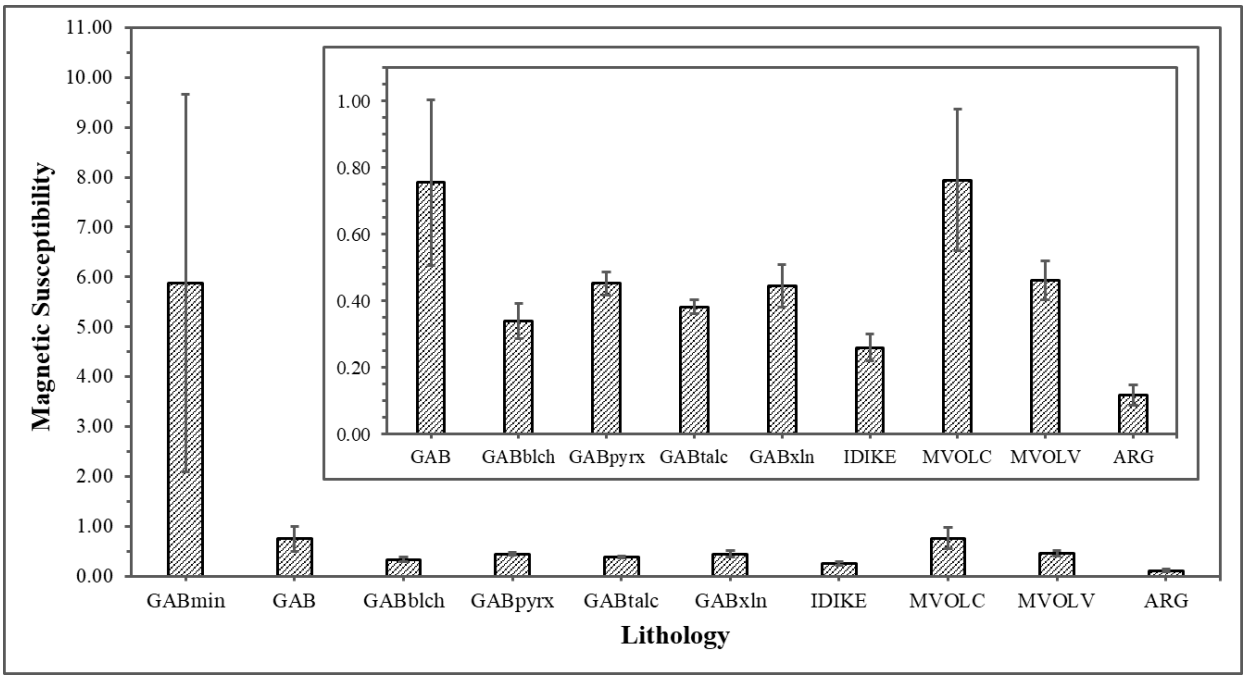


Figure 9: Plots of magnetic susceptibility by lithology where error bars indicate standard error and overlapping error bars indicates insignificant differences between lithologies (see App. A: Fig. 3 for the results of ranked regression and post hoc pairwise comparisons between groups).

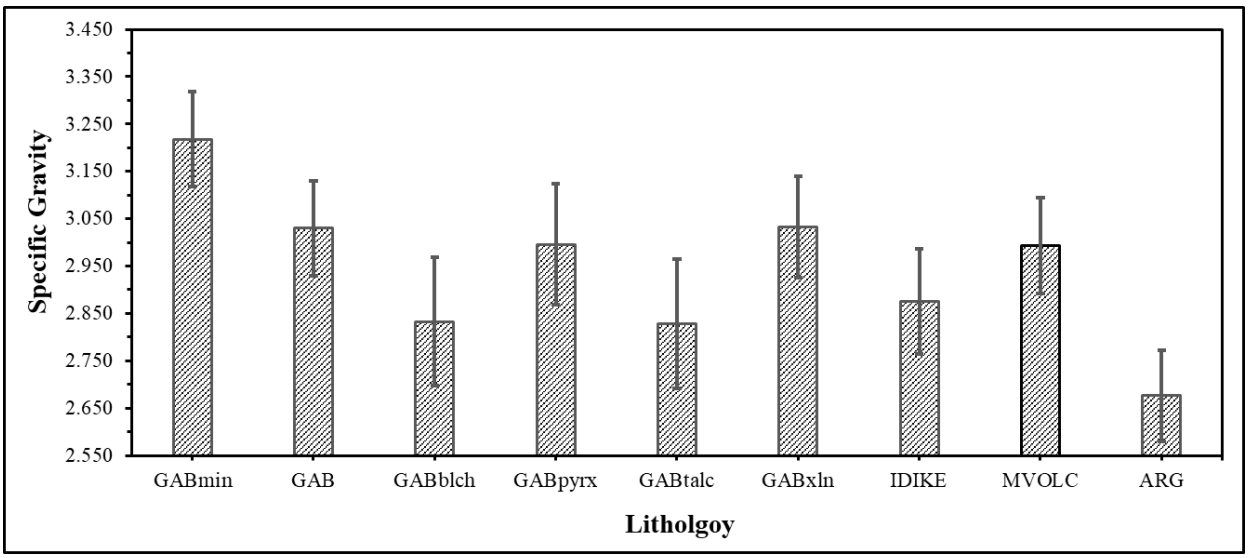


Figure 10: Plots of specific gravity by lithology where error bars indicate standard error and overlapping error bars indicates insignificant differences between lithologies (see App. A: Fig. 3 for the results of ranked regression and post hoc pairwise comparisons between groups).

A brief description of the individual major rock units encounter in the 2019 drill program and 2008 re-logs are as follows:

Gabbro Crystalline (GABxln; see Fig. 11) – Distinct intrusive unit with a high percentage (> 25%) of feldspar phenocrysts. GABxln exhibited variable feldspar content with individual phenocrysts up to 8 mm in overall size. GABxln was generally very massive and homogenous. GABxln was historically logged as gabbro and diorite by Eastmain in there 2008 logs.

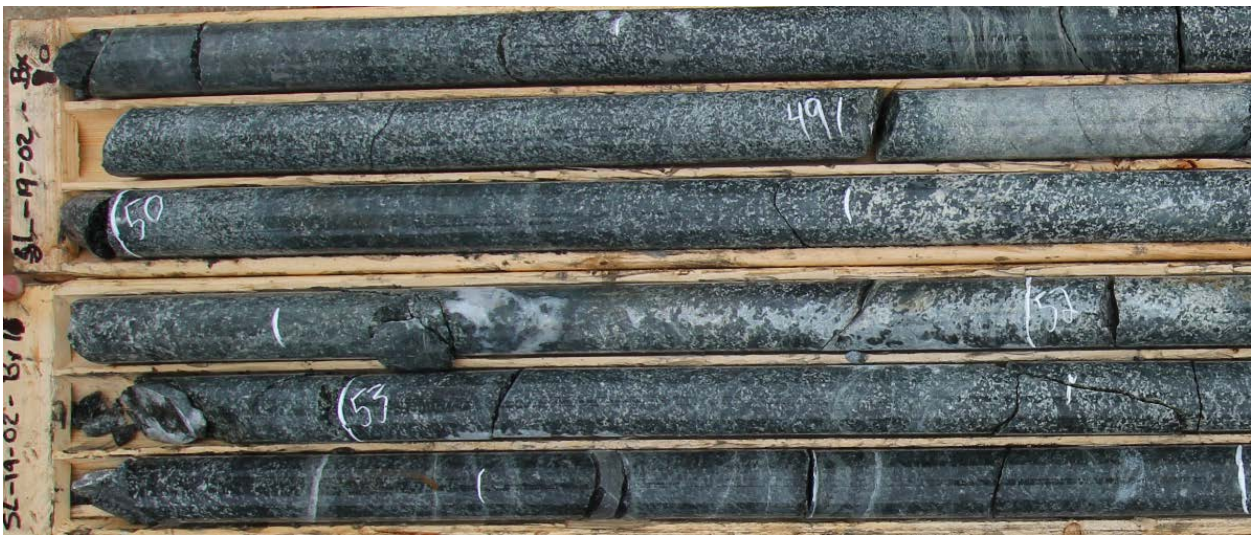


Figure 11: Gabbro Crystalline (GABxln) from SL-19-02, approximately 50 m downhole/

Gabbro (GAB; see Fig. 12) – Gabbro is interpreted to be an intrusive breccia as it has a commonly variable texture likely containing fragments/xenoliths of pre-exiting gabbro phases. Feldspar phenocrysts are present but generally < 15% finer grained and rounded subhedral. Dark mafic groundmass.

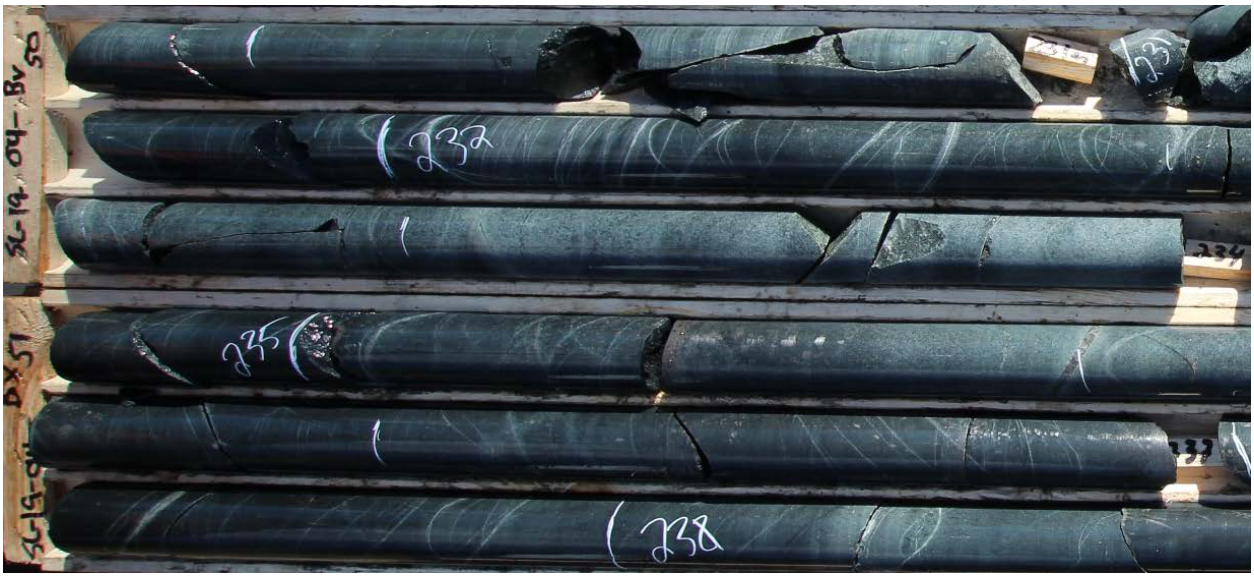


Figure 12: Gabbro (GAB) from SL-19-04, approximately 232 m downhole.

Gabbro Mineralized (GABmin; see Fig. 13) – Gabbro mineralized is a continuation of the above unit with the addition of sulphide stingers, blebs and narrow intervals of sulphide breccia.

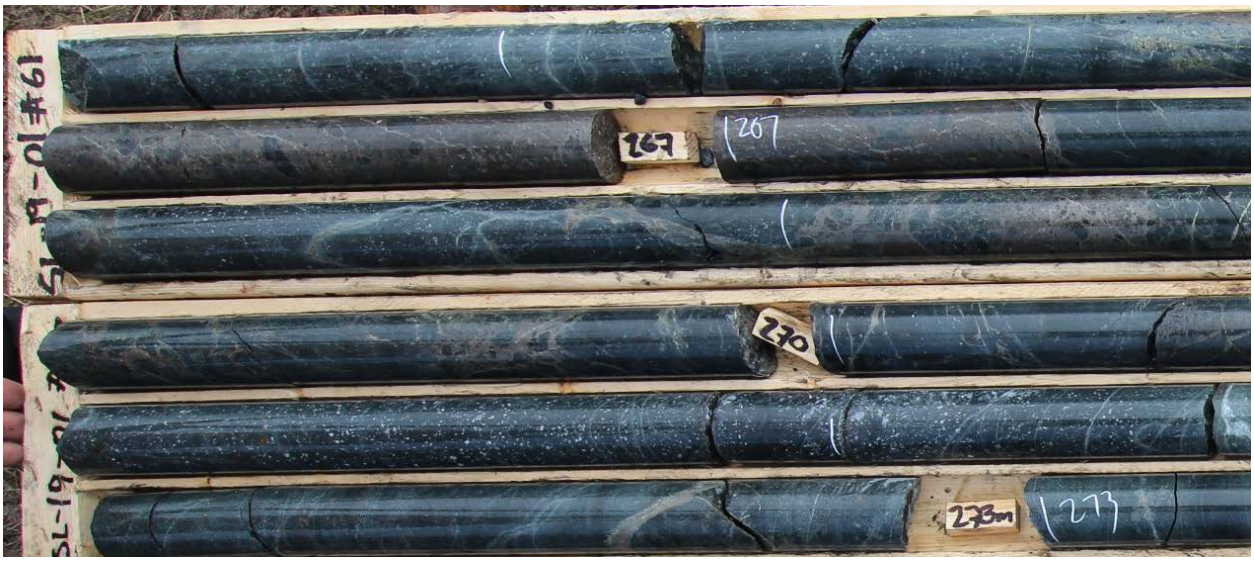


Figure 13: Gabbro Mineralized (GABmin) from SL-19-01, approximately 267 m downhole. Sulphide breccia (266.5-267.0) and sulphide stringers.

Gabbro pyroxenite (GABpyrx; see Fig. 14) – Gabbro with distinct pyroxene clots recognized on the ends of core as coarse reflective faces. Suggest this is a minor unit but visually recognizable and provides some correlation between drill holes to provide some lithological/stratigraphic framework.

Figure 14: Gabbro Pyroxenite (GABpyrx) from SL-19-01, approximately 32.0 m downhole.

Intermediate Dike (IDIKE; see Fig. 15) – Intermediate dikes were present in all drill holes. Dikes had sharp contacts and were generally 0.1 m to 8.0 m in width with distinct 3-20% white feldspar phenocrysts up to 5mm.

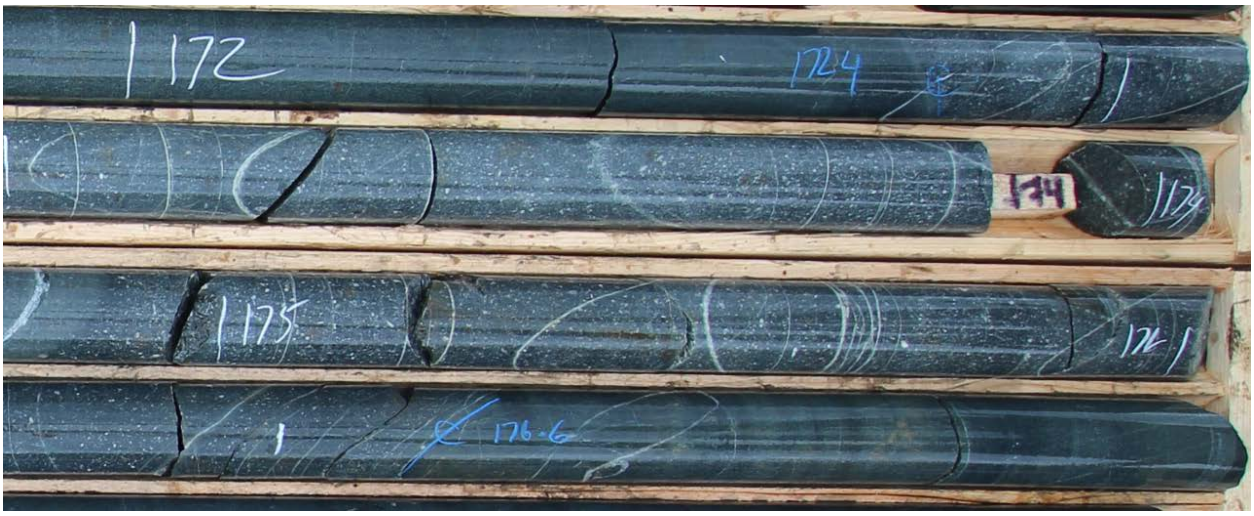


Figure 15: Intermediate Dike (IDIKE) from SL-19-03, approximately 174 m downhole. Sharp upper and lower contact.

Mafic Volcanic (MVOLC; see Fig. 16) – Mafic Volcanic light to dark green with distinct flow features including pillow selvedges, sections of flow breccia, varioles, and amygdules.

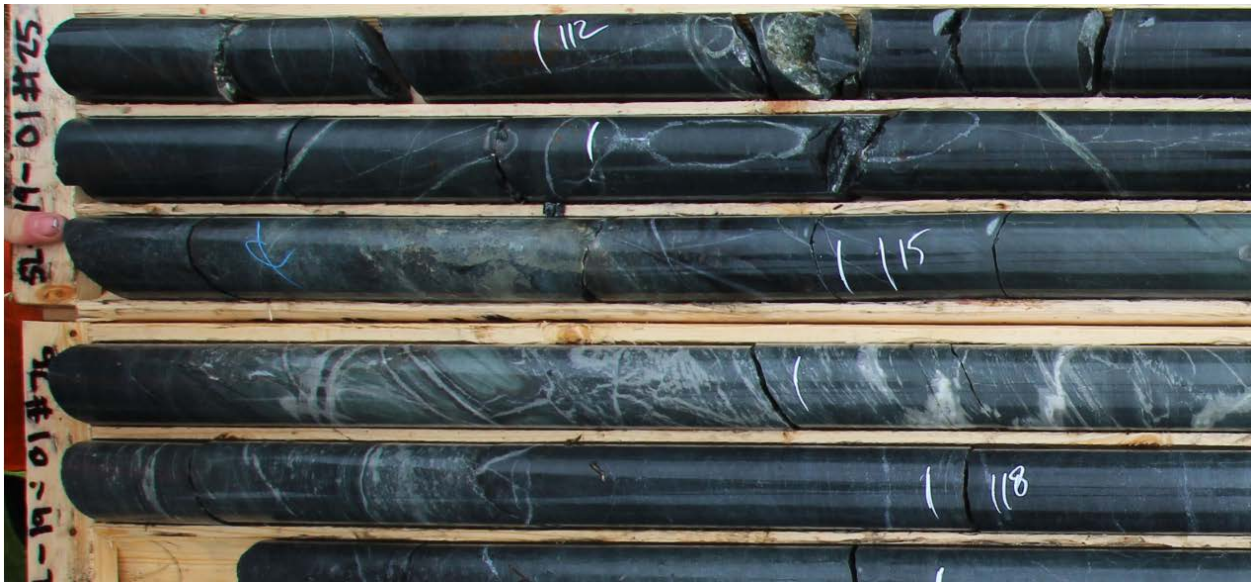


Figure 16: Mafic Volcanic (MVOLC) from SL-19-01, approximately 115 m downhole. Flow breccia and pillow selvedges visible.

Argillite (ARG; see Fig. 17) – Argillite is a minor unit identified in only 1 hole and may be a xenolith raft. Unit is grey, fine grained with distinct 1mm bands/laminations

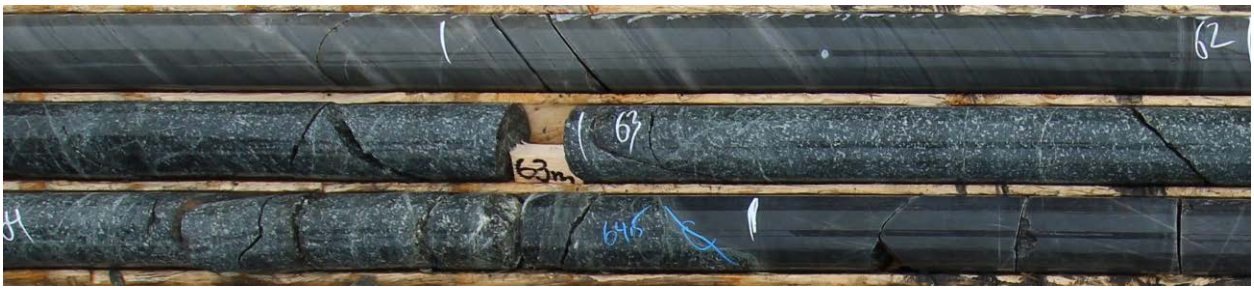


Figure 17: Argillite (ARG) from SL-19-04, approximately 62 m downhole. Top row is argillite with banded/laminated texture.

Mineralization: Sulphide mineralization was intersected in SL-19-01 and SL-19-03. The mineralization consists of pyrrhotite, pyrite, chalcopyrite and pentlandite (difficult to confirm visually in core). The mineralization is observed in fine disseminations, small ragged blebs, stringers and narrow sections of sulphide breccia.

Description of Individual drill holes:

SL-19-01 – Drilled to test an airborne EM anomaly coincident with sulphide mineralization intersected in SL-08-2, SL-08-3, PA-1, PA-5 and PA-7 (see section XX). The drill hole encountered Gabbro Pyroxenite, Mafic Volcanic, and Gabbro in the upper portions of the hole. Several sections of sulphide mineralization including disseminations stringers and sulphide breccia were intersected between 238.6 and 275.6 meters. Several cross cutting Intermediate Dikes crosscut the mineralization. Assay results are included in the drill logs found within Appendix B.

SL-19-02 – Drilled to test the down dip continuation of the mineralization in SL-19-01. The hole encountered the package of Gabbro Pyroxenite, Mafic Volcanic and Gabbro in the upper portion of the hole and ended in Mafic Volcanic. The drill hole did not intersect the interval of sulphide mineralization intersected in SL-19-01. Assay results are included in the drill logs found within Appendix B.

SL-19-03 – Drilled to test the northeast extension of the mineralization, coincident with an airborne EM anomaly. The drill hole intersected Gabbro with narrow intervals of Mafic Volcanic (Xenoliths) and intermediate Dikes. A wide interval sulphide mineralization including disseminated, blebby, and stringers, was encountered from 327.3 m too 441.4 m. Assay results are included in the drill logs found within Appendix B.

SL-19-04 – Drilled to test the southwest extension of the mineralized system coincident with a strong airborne EM anomaly. The hole intersected Gabbro throughout its entirety. The drill hole did not intersect the interval of sulphide mineralization. Assay results are included in the drill logs found within Appendix B.

Interpretation:

The results of the drill program support and confirm the exploration potential of the St. Laurent Project. Sulphide mineralization has been intersected down dip and along strike, demonstrating the potential for a larger mineralized system. The nickel grade shows a very good relationship to the Sulphur contents which, when modelled, suggests a nickel grade of approximately 4.5% Ni in massive sulphide (see Fig. 18-22)

Certificate of Qualified Person

I, Todd Keast, am a professional geologist, residing at 78 Nova Drive, Sudbury, Ontario, P3E 0A6, and do hereby certify that:

I am the author of the report titled:

"Diamond Drilling Report for the St. Laurent Property of Pancontinental Resources Corporation, St. Laurent TWP., Larder Lake Mining Division, Ontario."

- I am a Practising Member of the Association of Professional Geoscientists of Ontario (membership #911). I am a graduate of University of Manitoba, 1987 with a B.Sc. Honours Geology degree.
- I have practised my profession in mineral exploration continuously since graduation. I have over thirty two years of experience in mineral exploration and have over twenty years of experience as an independent consultant.
- I have read the definition of "Qualified Person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101

Dated this 9th day of December, 2019.

Todd Keast, P.Geo.

"Original Document signed and sealed by Todd Keast, P.Geo." Todd Keast, P.Geo.

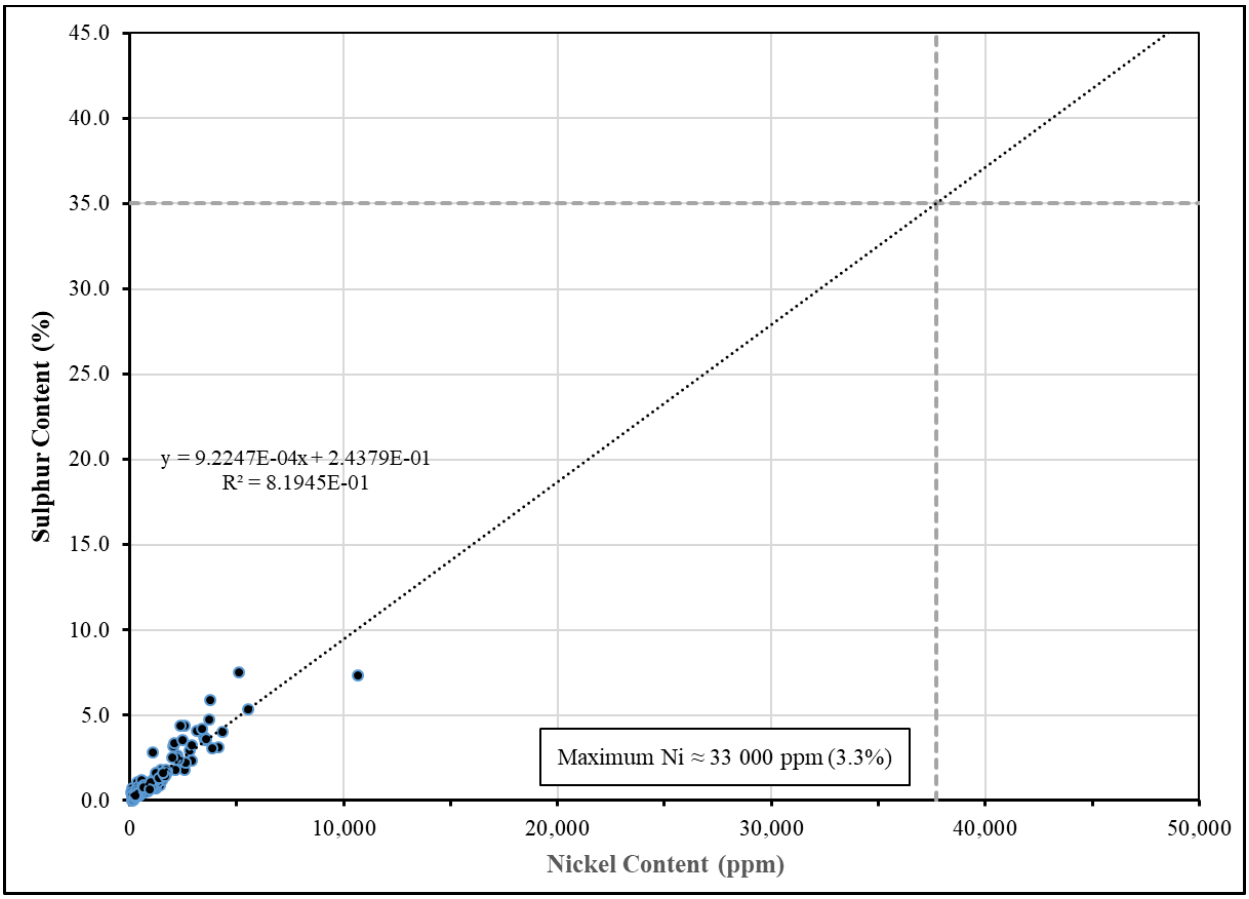


Figure 18: An extrapolation plot generated using assay data from SL-08-01 that is used to predict the potential nickel content of massive sulfides, given the strong relationship between nickel and sulphur.

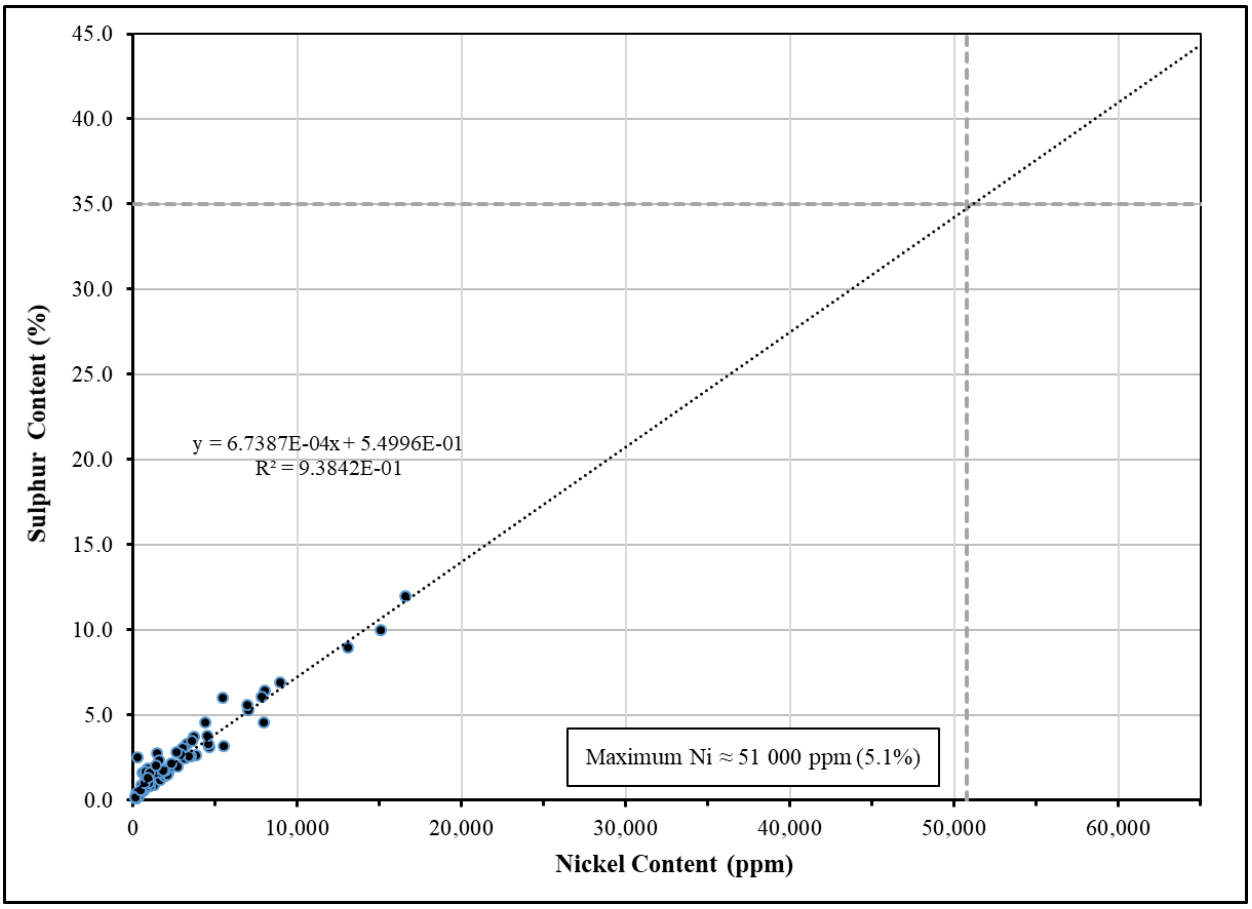


Figure 19: An extrapolation plot generated using assay data from SL-08-02 that is used to predict the potential nickel content of massive sulfides, given the strong relationship between nickel and sulphur.

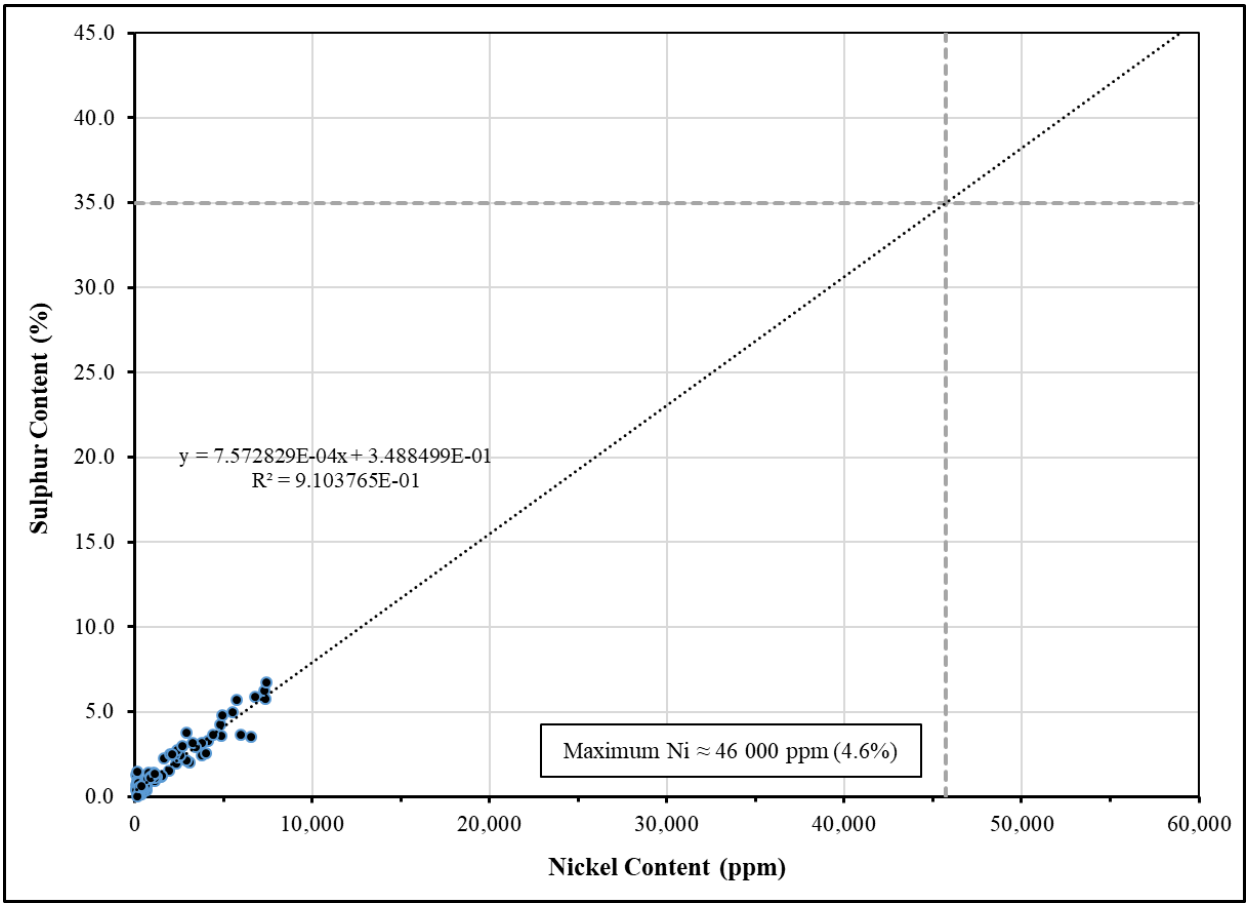


Figure 20: An extrapolation plot generated using assay data from SL-08-03 that is used to predict the potential nickel content of massive sulfides, given the strong relationship between nickel and sulphur.

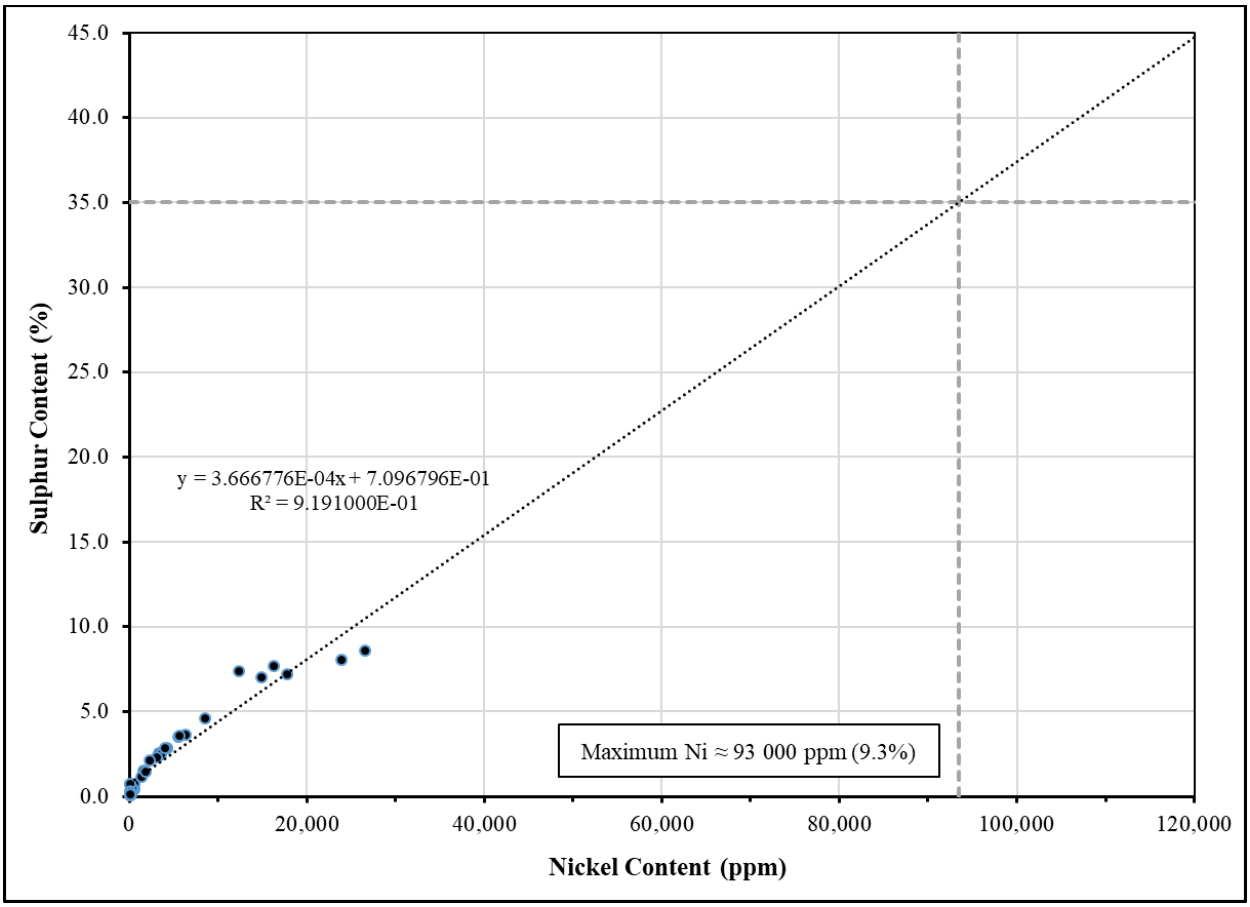


Figure 21: An extrapolation plot generated using assay data from SL-19-01 that is used to predict the potential nickel content of massive sulfides, given the strong relationship between nickel and sulphur.

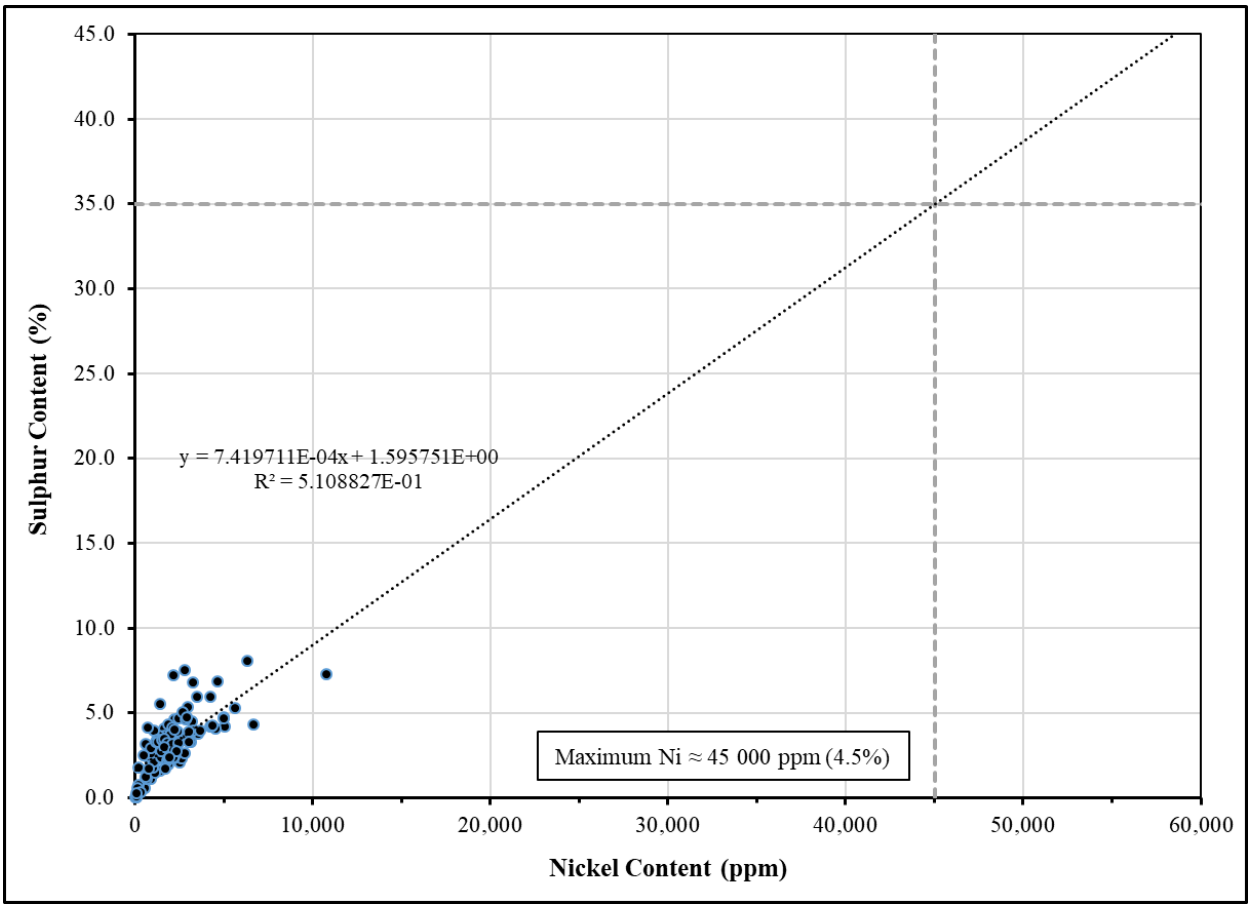


Figure 22: An extrapolation plot generated using assay data from SL-19-03 that is used to predict the potential nickel content of massive sulfides, given the strong relationship between nickel and sulphur.

Recommendations:

Additional exploration is recommended for the St. Laurent Project. Borehole EM surveys are recommended to help identify strong conductive anomalies which would represent high priority drill targets. Reinterpretation of existing airborne geophysical surveys may prove useful in extending the EM anomaly along strike. Diamond drilling is recommended to test the remainder of the airborne EM anomaly and follow up on the drill intersections to date. An exploration budget proposal of $969,500 is recommended to follow up on the exploration potential of the St. Laurent Project (see Table 2 for a rough outline of expected costs).

Table 2: Budget outline for the 2019 exploratory diamond drill program conducted by Pancontinental Resources Corporation on the St. Laurent Property.

Item (Amount/Cost)	Total
Geophysical Compilation Reprocess Data	$20,000
Borehole EM Survey	$25,000
Ground UTEM Survey	$75,000
Diamond Drilling (5000m @ $125 / m)	$625,000
Geologist (40 days @ $750 / day)	$30,000
Core splitter (40 days @ $425 / day)	$17,000
Assays (500 samples @ $45)	$22,500
Equipment Rentals	$50,000
Consumables	$10,000
Reports, maps	$7,000
Subtotal	$881,500
Contingency 10%	$88,150
Total	**$969,650**

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Table 1: Pancontinental Resources Corporation's 2019 St. Laurent exploratory drill program quality assurance and quality control assay data for Ore Research and Exploration's (OREAS) standard 13b, with the certified values (Cert. Val.) and standard deviations (Std. Dev.) of each analyte (i.e., nickel [Ni], copper [Cu], cobalt [Co], sulfur [S], gold [Au], platinum [Pt] and palladium [Pd]) outlined in the table header. The sample number and drill hole identity (BHID) for each standard sample are indicated. The values reported by the ALS assay laboratory are located within the table for each analyte. Whether the reported values fell within the acceptable thresholds (i.e., within 3 Std. Dev. of the Cert. Val) is also indicated under the lab accuracy header as either pass of fail, where failed values are further described as being lower (-Low) or higher (-High) than the acceptable threshold.

			Ni (%)	Cu (%)	Co (%)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)	Lab Accuracy (Pass/Fail)						
		Cert. Val.	0.2247	0.2327	0.0075	1.1900	0.2110	0.1970	0.1310							
		Std. Dev.	0.0155	0.0050	0.0008	0.0300	0.0130	0.0130	0.0090							
		High Tol.	0.2712	0.2477	0.0099	1.2800	0.2500	0.2360	0.1580							
BHID	**Sample**	*Low Tol.*	0.1782	0.2177	0.0051	1.1000	0.1720	0.1580	0.1040	**Ni (%)**	**Cu (%)**	**Co (%)**	**S (%)**	**Au (ppm)**	**Pt (ppm)**	**Pd (ppm)**
SL-19-01	X948469	OREAS 13b	0.2260	0.2430	0.0045	1.1900	0.2190	0.2010	0.1300	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-02	X948535	OREAS 13b	0.2190	0.2300	0.0044	1.1400	0.2120	0.1940	0.1290	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-03	X948566	OREAS 13b	0.2220	0.2380	0.0046	1.1800	0.2110	0.2000	0.1240	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-03	X948604	OREAS 13b	0.2270	0.2410	0.0045	1.2100	0.2200	0.2020	0.1310	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-03	X948636	OREAS 13b	0.2250	0.2370	0.0046	1.1800	0.2150	0.1980	0.1290	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-03	X948686	OREAS 13b	0.2300	0.2410	0.0047	1.2200	0.1780	0.1700	0.1110	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-04	X948699	OREAS 13b	n/a	n/a	n/a	n/a	0.2110	n/a	n/a	n/a	n/a	n/a	n/a	PASS	n/a	n/a

‡ Two assay protocol were followed to assess mineral content of samples where Au, Pt and Pd were quantified following PGM-ICP-23 assay protocols; and Ni, Cu, Co, and S were quantified using ICP-81 assay protocols. Therefore, standard failures are considered for each assay protocol (i.e., failed Au, Pt, and Pd, are not indicative of inaccuracy with respect to Ni, Cu, Co and S).

Table 2: Pancontinental Resources Corporation's 2019 St. Laurent exploratory drill program quality assurance and quality control assay data for Ore Research and Exploration's (OREAS) standard 14p, with the certified values (Cert. Val.) and standard deviations (Std. Dev.) of each analyte (i.e., nickel [Ni], copper [Cu], cobalt [Co], sulfur [S], gold [Au], platinum [Pt] and palladium [Pd]) outlined in the table header. The sample number and drill hole identity (BHID) for each standard sample are indicated. The values reported by the ALS assay laboratory are located within the table for each analyte. Whether the reported values fell within the acceptable thresholds (i.e., within 3 Std. Dev. of the Cert. Val) is also indicated under the lab accuracy header as either pass of fail, where failed values are further described as being lower (-Low) or higher (-high) than the acceptable threshold.

			Ni (%)	Cu (%)	Co (%)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)	Lab Accuracy (Pass/Fail)						
		Cert. Val.	2.1	0.997	0.0754	22.8	0.051	0.099	0.149							
		Std. Dev.	0.07	0.023	0.0019	0.8	0.006	0.008	0.008							
		High Tol.	2.31	1.066	0.0811	25.2	0.069	0.123	0.173							
BHID	**Sample**	*Low Tol.*	1.89	0.928	0.0697	20.4	0.033	0.075	0.125	**Ni (%)**	**Cu (%)**	**Co (%)**	**S (%)**	**Au (ppm)**	**Pt (ppm)**	**Pd (ppm)**
SL-19-01	X948492	14p	2.06	1.005	0.0664	24.4	0.049	0.098	0.145	PASS	PASS	FAIL-Low	PASS	PASS	PASS	PASS
SL-19-02	X948576	14p	2.0900	1.0150	0.0732	24.8000	0.0520	0.0960	0.1520	PASS	PASS	PASS	PASS	PASS	PASS	PASS
SL-19-03	X948666	14p	2.0100	0.9740	0.0709	25.0000	0.0490	0.1000	0.1440	PASS	PASS	PASS	PASS	PASS	PASS	PASS

‡ Two assay protocol were followed to assess mineral content of samples where Au, Pt and Pd were quantified following PGM-ICP-23 assay protocols; and Ni, Cu, Co, and S were quantified using ICP-81 assay protocols. Therefore, standard failures are considered for each assay protocol (i.e., failed Au, Pt, and Pd, are not indicative of inaccuracy with respect to Ni, Cu, Co and S).

Table 3: A table depicting analyte concentrations for sets of pulp-split duplicates performed by ALS for Pancontinental Resources Corporation's 2019 St. Laurent exploratory drill program as a part of quality assurance and quality control. These data were used to calculate relative standard deviations for each duplicate sample, which can be found in Appendix A: Table 4. Empty cells are produces when duplicates are run for only one assay procedure, or in the case of re-runs for nickel or sulphur (Re-Ni and Re-S, respectively).

BHID	SAMPLE	Au	Pt	Pd	Co	Cu	Ni	S	Re-Ni	Re-S
SL-19-01	X948457	0.002	0.005	0.004	50.000	343.000	83.000	0.730		
SL-19-01	X948457	0.001	0.005	0.001	51.000	366.000	87.000	0.760		
SL-19-01	X948491	-	-	-	-	-	-	-	2.660	
SL-19-01	X948491	-	-	-	-	-	-	-	2.680	
SL-19-01	X948492	-	-	-	-	-	-	-		24.400
SL-19-01	X948492	-	-	-	-	-	-	-	-	24.400
SL-19-01	X948514	0.015	0.005	0.001	-	-	-	-	-	-
SL-19-01	X948514	0.015	0.005	0.001	-	-	-	-	-	-
SL-19-02	X948541	-	-	-	186.000	5590.000	132.000	3.600	-	-
SL-19-02	X948541	-	-	-	189.000	5620.000	133.000	3.630	-	-
SL-19-03	X948554	-	-	-	30.000	179.000	117.000	0.160	-	-
SL-19-03	X948554	-	-	-	30.000	187.000	122.000	0.160	-	-
SL-19-03	X948560	0.005	0.005	0.005	-	-	-	-	-	-
SL-19-03	X948560	0.006	0.005	0.005	-	-	-	-	-	-
SL-19-03	X948580	0.010	0.005	0.005	-	-	-	-	-	-
SL-19-03	X948580	0.009	0.005	0.005	-	-	-	-	-	-
SL-19-03	X948590	-	-	-	39.000	317.000	216.000	0.730	-	-
SL-19-03	X948590	-	-	-	38.000	305.000	214.000	0.730	-	-
SL-19-03	X948626	-	-	-	138.000	1390.000	1675.000	4.190	-	-
SL-19-03	X948626	-	-	-	141.000	1440.000	1745.000	4.280	-	-
SL-19-03	X948656	0.029	0.051	0.033	-	-	-	-	-	-
SL-19-03	X948656	0.028	0.058	0.033	-	-	-	-	-	-
SL-19-03	X948662	-	-	-	116.000	2010.000	2120.000	3.190	-	-
SL-19-03	X948662	-	-	-	117.000	2050.000	2150.000	3.250	-	-
SL-19-03	X948666	-	-	-	-	-	-	-	-	25.000
SL-19-03	X948666	-	-	-	-	-	-	-	-	24.600
SL-19-03	X948692	0.001	0.005	0.002	-	-	-	-	-	-
SL-19-03	X948692	0.002	0.005	0.003	-	-	-	-	-	-

Table 4: A table depicting the relative standard deviation (RSD) of each sample duplicate for Pancontinental Resources Corporation's 2019 St. Laurent exploratory drill program as a part of quality assurance and quality control. The average RSD for gold, platinum and palladium was 6.22 (PGM-ICP23), and 1.50 for nickel, copper and sulfur (ICP-41). Empty cells are produces when duplicates are run for only one assay procedure, or in the case of re-runs for nickel or sulphur (Re-Ni and Re-S, respectively).

BHID	Sample	Au	Pt	Pd	Co	Cu	Ni	S	Re-Ni	Re-S
SL-19-01	X948457	*47.14*	0.00	*84.85*	1.40	4.59	3.33	2.85	-	-
SL-19-01	X948491	-	-	-	-	-	-	-	0.53	-
SL-19-01	X948492	-	-	-	-	-	-	-	-	0.00
SL-19-01	X948514	0.00	0.00	0.00	-	-	-	-	-	-
SL-19-02	X948541	-	-	-	1.13	0.38	0.53	0.59	-	-
SL-19-03	X948554	-	-	-	0.00	3.09	2.96	0.00	-	-
SL-19-03	X948560	12.86	0.00	0.00	-	-	-	-	-	-
SL-19-03	X948580	7.44	0.00	0.00	-	-	-	-	-	-
SL-19-03	X948590	-	-	-	1.84	2.73	0.66	0.00	-	-
SL-19-03	X948626	-	-	-	1.52	2.50	2.89	1.50	-	-
SL-19-03	X948656	2.48	9.08	0.00	-	-	-	-	-	-
SL-19-03	X948662	-	-	-	0.61	1.39	0.99	1.32	-	-
SL-19-03	X948666	-	-	-	-	-	-	-	-	1.14
SL-19-03	X948692	*47.14*	0.00	28.28	-	-	-	-	-	-

Table 5: Pancontinental Resources Corporation's 2019 St. Laurent exploratory drill program quality assurance and quality control assay data for blank rock standards (i.e., quartz landscaping stones). The sample number and drill hole identity (BHID) for each blank sample are indicated, as are the values reported by the ALS assay laboratory for each analyte (i.e., nickel [Ni], copper [Cu], cobalt [Co], sulfur [S], gold [Au], platinum [Pt] and palladium [Pd]). The lower limit of detection (LLOD) for each sample was used to identify anomalous values (bolded values), where values were considered anomalous if they were several times greater than the LLOD.

BHID	Sample	Ni (%)	Cu (%)	Co (%)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)
SL-19-01	X948464	0.0004	0.0007	< 0.0001	< 0.01	0.005	<0.005	<0.001
SL-19-01	X948483	0.0003	0.0022	0.0001	0.02	<0.001	<0.005	<0.001
SL-19-01	X948511	0.0003	0.0011	< 0.0001	0.01	<0.001	<0.005	0.001
SL-19-02	X948529	0.0013	0.0003	< 0.0001	< 0.01	<0.001	<0.005	<0.001
SL-19-02	X948542	< 0.0001	0.0014	0.0001	0.01	0.002	<0.005	<0.001
SL-19-03	X948553	0.0015	0.0004	< 0.0001	0.01	<0.001	<0.005	<0.001
SL-19-03	X948581	0.0007	0.0009	< 0.0001	0.01	<0.001	<0.005	<0.001
SL-19-03	X948595	0.0007	0.0015	0.0001	0.01	0.001	<0.005	<0.001
SL-19-03	X948629	0.0015	0.0006	< 0.0001	0.02	<0.001	<0.005	<0.001
SL-19-03	X948646	0.0021	0.0009	< 0.0001	0.02	<0.001	<0.005	<0.001
SL-19-03	X948660	0.0019	0.001	< 0.0001	0.02	0.001	<0.005	<0.001
SL-19-03	X948677	0.0023	0.001	< 0.0001	0.03	0.001	0.005	0.001
SL-19-04	X948697	n/a	n/a	n/a	n/a	<0.005‡	n/a	n/a
LLOD		<0.0001	<0.0001	<0.0001	<0.01	<0.001	<0.005	<0.001

‡ The LLOD for this sample was 0.005 rather than 0.001 as the assay method used for samples collected from SL-19-04 differed from those used in the other 2019 PUC drill holes (see assay procedures for more details pertaining to assay procedures).

Table 6: The percent differences of each specific gravity standard as measure by Pancontinental Resources Corporation (PUC SG) when compared to accepted values as determined by ALS (ALS SG) for these standards. The relative standard deviation (RSD) for each set of standard measurements is also reported as an indicator or precision.

Standard	PUC SG	ALS SG	RSD (%)	% Difference
Glass Cube	2.491509	2.4391	0.066342	2.125341671
Jasper	2.722679	2.6786	0.073035	1.633352117
Sulphide	4.625441	4.6242	0.158872	0.12969883
Tuff	3.130417	3.0837	0.07822	1.504857495

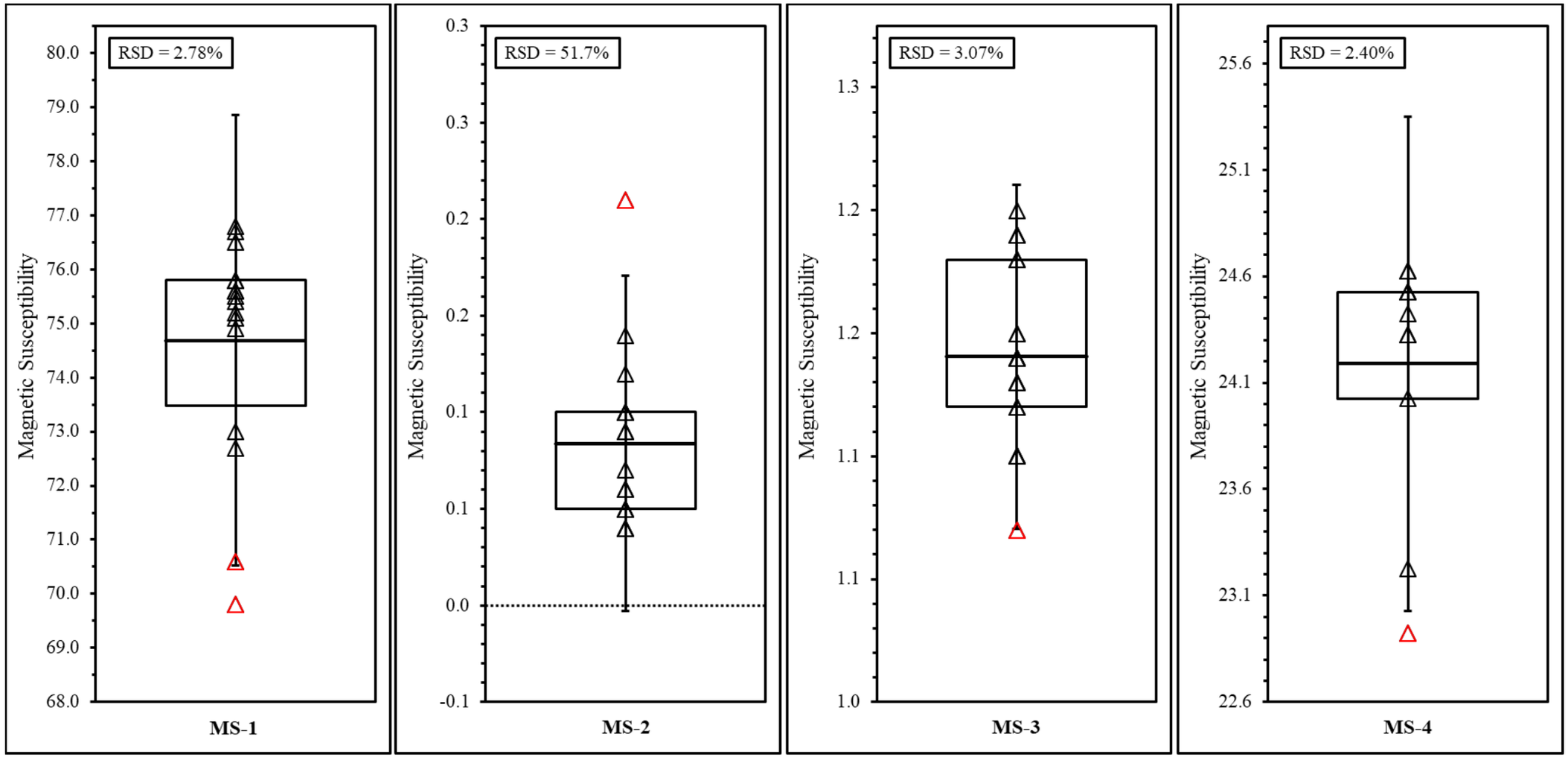

Figure 1: The distributions of each set of measurements recorded for the magnetic susceptibility standards used during 2019 exploratory diamond drilling program on the St. Laurent Property. Dark central bands represent the mean of each distribution, boxes show interquartile range, whiskers show the minimums and maximums, and red triangles show potential outliers. Relative standard deviation (RSD) are reported in the top right for each distribution.

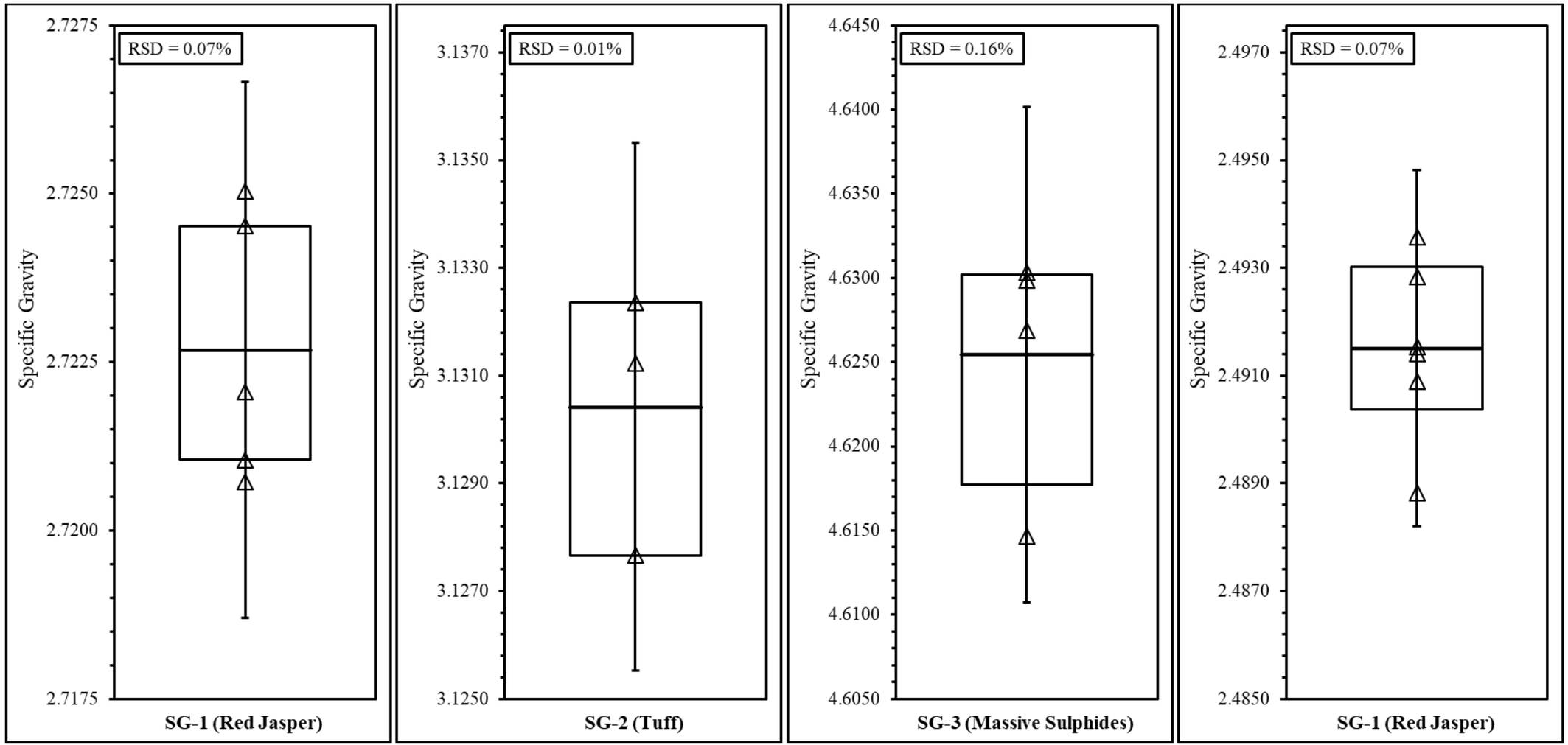

Figure 2: The distributions of each set of measurements recorded for the specific gravity standards used during 2019 exploratory diamond drilling program on the St. Laurent Property. Dark central bands represent the mean of each distribution, boxes show interquartile range, whiskers show the minimums and maximums, and red triangles show potential outliers. Relative standard deviation (RSD) are reported in the top right for each distribution.

```
> lm1<-lm(tMag~Lith, data=MSLITH)
> summary(lm1)

Call:
lm(formula = tMag ~ Lith, data = MSLITH)

Residuals:
    Min      1Q  Median      3Q     Max
-480.92  -92.00    8.87  123.49  365.02

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)    20.20      49.92   0.405   0.6858
LithGAB       324.93      50.98   6.374 3.47e-10 ***
LithGABblch   121.91      72.53   1.681   0.0933 .
LithGABmin    470.72      51.67   9.110  < 2e-16 ***
LithGABpyrx   265.80      66.40   4.003 6.96e-05 ***
LithGABtalc   167.80      66.40   2.527   0.0117 *
LithGABxln    218.22      54.42   4.010 6.78e-05 ***
LithIDIKE      69.78      54.97   1.269   0.2048
LithMVOLC     327.31      51.82   6.317 4.91e-10 ***
LithMVOLV     239.71      59.79   4.009 6.79e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 157.9 on 659 degrees of freedom
Multiple R-squared:  0.3419,    Adjusted R-squared:  0.3329
F-statistic: 38.04 on 9 and 659 DF,  p-value: < 2.2e-16

> summary(lm2)
             Df   Sum Sq Mean Sq F value Pr(>F)
Lith          9  8531361  947929   38.04 <2e-16 ***
Residuals   659 16420109   24917

Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
> TukeyHSD(lm2)
  Tukey multiple comparisons of means
    95% family-wise confidence level

$Lith
                        diff        lwr        upr     p adj
GAB-ARG          324.933621  163.08858  486.77866 0.0000000
GABblch-ARG      121.911111 -108.33445  352.15667 0.8060857
GABmin-ARG       470.721429  306.69368  634.74918 0.0000000
GABpyrx-ARG      265.800000   55.02070  476.57930 0.0027814
GABtalc-ARG      167.800000  -42.97930  378.57930 0.2557772
GABxln-ARG       218.215094   45.44521  390.98498 0.0027121
IDIKE-ARG         69.778723 -104.73284  244.29029 0.9600574
MVOLC-ARG        327.311628  162.81831  491.80494 0.0000000
MVOLV-ARG        239.713043   49.89882  429.52727 0.0027174
GABblch-GAB     -203.022510 -373.26932  -32.77570 0.0064181
GABmin-GAB       145.787808   92.15887  199.41674 0.0000000
GABpyrx-GAB      -59.133621 -201.95824   83.69100 0.9502681
GABtalc-GAB     -157.133621 -299.95824  -14.30900 0.0181841
GABxln-GAB      -106.718526 -183.01004  -30.42702 0.0004442
IDIKE-GAB       -255.154897 -335.31253 -174.99726 0.0000000
MVOLC-GAB          2.378007  -52.65845   57.41446 1.0000000
MVOLV-GAB        -85.220577 -194.76692   24.32577 0.2869400
GABmin-GABblch   348.810317  176.48719  521.13345 0.0000000
GABpyrx-GABblch  143.888889  -73.40831  361.18608 0.5265982
GABtalc-GABblch   45.888889 -171.40831  263.18608 0.9996573
GABxln-GABblch    96.303983  -84.36033  276.96829 0.7997767
IDIKE-GABblch    -52.132388 -234.46298  130.19820 0.9962220
MVOLC-GABblch    205.400517   32.63417  378.16686 0.0066987
MVOLV-GABblch    117.801932  -79.22497  314.82883 0.6704374
GABpyrx-GABmin  -204.921429 -350.21478  -59.62808 0.0003774
GABtalc-GABmin  -302.921429 -448.21478 -157.62808 0.0000000
GABxln-GABmin   -252.506334 -333.32514 -171.68753 0.0000000
IDIKE-GABmin    -400.942705 -485.42069 -316.46472 0.0000000
MVOLC-GABmin    -143.409801 -204.56776  -82.25184 0.0000000
MVOLV-GABmin    -231.008385 -343.75450 -118.26227 0.0000000
GABtalc-GABpyrx  -98.000000 -294.55271   98.55271 0.8562560
GABxln-GABpyrx   -47.584906 -202.68000  107.51019 0.9935973
IDIKE-GABpyrx   -196.021277 -353.05421  -38.98835 0.0032627
MVOLC-GABpyrx     61.511628  -84.30712  207.33037 0.9442024
MVOLV-GABpyrx    -26.086957 -199.96765  147.79374 0.9999807
GABxln-GABtalc    50.415094 -104.68000  205.51019 0.9902445
IDIKE-GABtalc    -98.021277 -255.05421   59.01165 0.6123464
MVOLC-GABtalc    159.511628   13.69288  305.33037 0.0194471
MVOLV-GABtalc     71.913043 -101.96765  245.79374 0.9506048
IDIKE-GABxln    -148.436371 -248.83987  -48.03287 0.0001410
MVOLC-GABxln     109.096534   27.33696  190.85611 0.0010741
MVOLV-GABxln      21.497949 -103.62606  146.62196 0.9999387
MVOLC-IDIKE      257.532905  172.15446  342.91135 0.0000000
MVOLV-IDIKE      169.934320   42.41621  297.45244 0.0010992
MVOLV-MVOLC      -87.598584 -201.02096   25.82379 0.2970186
```

```
> sm1<-lm((tSG)~Litho, data=SGLITH)
> summary(sm1)

Call:
lm(formula = (tSG) ~ Litho, data = SGLITH)

Residuals:
    Min      1Q  Median      3Q     Max
-61.000 -19.633   1.111  25.375  64.643

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)     2.00      18.12   0.110 0.912280
LithoGAB       70.00      18.80   3.723 0.000296 ***
LithoGABblch   12.67      25.62   0.494 0.621927
LithoGABmin    93.84      18.95   4.953 2.32e-06 ***
LithoGABpyrx   50.50      23.97   2.107 0.037118 *
LithoGABtalc   14.33      25.62   0.559 0.576893
LithoGABxln    74.46      20.10   3.705 0.000317 ***
LithoIDIKE     20.78      20.92   0.993 0.322553
LithoMVOLC     57.36      19.06   3.009 0.003174 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 31.38 on 125 degrees of freedom
Multiple R-squared:  0.386,     Adjusted R-squared:  0.3467
F-statistic: 9.824 on 8 and 125 DF,  p-value: 1.594e-10

> summary(sm2)
             Df Sum Sq Mean Sq F value   Pr(>F)
Litho         8  77398    9675   9.824 1.59e-10 ***
Residuals   125 123100     985

Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
> TukeyHSD(sm2)
  Tukey multiple comparisons of means
    95% family-wise confidence level

$Litho
                       diff          lwr        upr     p adj
GAB-ARG          70.000000   10.6442258 129.355774 0.0087579
GABblch-ARG      12.666667  -68.2216188  93.554952 0.9999021
GABmin-ARG       93.843750   34.0260562 153.661444 0.0000796
GABpyrx-ARG      50.500000  -25.1640627 126.164063 0.4734064
GABtalc-ARG      14.333333  -66.5549521  95.221619 0.9997517
GABxln-ARG       74.461538   11.0075468 137.915530 0.0093154
IDIKE-ARG        20.777778  -45.2672307  86.822786 0.9859062
MVOLC-ARG        57.357143   -2.8256674 117.539953 0.0746831
GABblch-GAB     -57.333333 -116.6891075   2.022441 0.0670647
GABmin-GAB       23.843750    0.2143257  47.473174 0.0461416
GABpyrx-GAB     -19.500000  -71.5119562  32.511956 0.9585917
GABtalc-GAB     -55.666667 -115.0224408   3.689108 0.0845897
GABxln-GAB        4.461538  -27.2654574  36.188534 0.9999569
IDIKE-GAB       -49.222222  -85.8574014 -12.587043 0.0013805
MVOLC-GAB       -12.642857  -37.1818843  11.896170 0.7885007
GABmin-GABblch   81.177083   21.3593896 140.994777 0.0011750
GABpyrx-GABblch  37.833333  -37.8307294 113.497396 0.8146304
GABtalc-GABblch   1.666667  -79.2216188  82.554952 1.0000000
GABxln-GABblch   61.794872   -1.6591199 125.248863 0.0627087
IDIKE-GABblch     8.111111  -57.9338974  74.156120 0.9999848
MVOLC-GABblch    44.690476  -15.4923341 104.873286 0.3243352
GABpyrx-GABmin  -43.343750  -95.8822326   9.194733 0.1954278
GABtalc-GABmin  -79.510417 -139.3281104 -19.692723 0.0016365
GABxln-GABmin   -19.382212  -51.9651952  13.200772 0.6300809
IDIKE-GABmin    -73.065972 -110.4449090 -35.687035 0.0000003
MVOLC-GABmin    -36.486607  -62.1227616 -10.850453 0.0005231
GABtalc-GABpyrx -36.166667 -111.8307294  39.497396 0.8494074
GABxln-GABpyrx   23.961538  -32.6824791  80.605556 0.9186547
IDIKE-GABpyrx   -29.722222  -89.2543884  29.809944 0.8158828
MVOLC-GABpyrx     6.857143  -46.0966701  59.810956 0.9999771
GABxln-GABtalc   60.128205   -3.3257866 123.582197 0.0781250
IDIKE-GABtalc     6.444444  -59.6005641  72.489453 0.9999975
MVOLC-GABtalc    43.023810  -17.1590007 103.206620 0.3764122
IDIKE-GABxln    -53.683761  -96.6423161 -10.725205 0.0040781
MVOLC-GABxln    -17.104396  -50.3529292  16.144138 0.7898705
MVOLC-IDIKE      36.579365   -1.3811285  74.539859 0.0683811
```

Figure 3: The results of ranked regression linear models for magnetic susceptibility (left) and specific gravity (right) modelled by lithology.

MTC-19-01
Drill Hole Summary

DDH ID		SL-19-01 (Nad 83)							
	Cell Mining Claim #		Zone	East (UTM)	North (UTM)	Elev	Az	Dip	EOH (m)
Location	237156		17U	603778	5469185	291.8	330	-60	471.00
Purpose	Test 600 m long Airborne EM anomaly coincident with a gabbro breccia containning anomalous Ni Cu sulphides								
Explanation	Numerous strongly conductive sulphide intervals. Conductive along core axis 50 cm pieces of core, semi massive sulphide.								
Start date	September 12, 2019								
End date	September 17, 2019								
Drill Contractor	NPLH Drilling								
Core Size	NQ								
Core Storage	Doug Bryant Shop Airport Road, Timmins - 17U 472500/5378900								
Casing	Casing left in ground	Capping	Metal Cap with Metal Flag						
Artesian Y/N	No								
Water Source	Small stream within 200m of drill - 17U 603519/5469269								
Logged By	Todd Keast								

Log Completed	September 18, 2019	**Assays Added**	**September 19, 2019**
			October 17, 2019
Comments	Drill Camp at gravel pit on Tomlinson Road 17U 576330/5467800		
Comments	Chopper landing pad - 17U 603431/5469387		
Comments	Borehole EM survey completed on this hole		

Lithologies

BHID	From	To	Litho	Comment
SL-19-01	0	10.30	CAS	CASING-Overburden
SL-19-01	10.30	22.70	GABxln	Gabbro - Green with medium grained 10-20% white feldspar phenocrysts subhedral variable size 1-3mm. Matrix is dark green fine grained chloritic, soft green scratch. H<7 just able to scratch. No sulphides 22.1-22.7 narrow fine grained along lower contact.
SL-19-01	22.70	34.10	GABpyrx	Gabbro with pyroxene - Dark green-with very minor 1-5% white feldspar phenocrysts. Distinct coarse pyroxene faces, reflective on core ends. Coarse 1 cm rounded elongate clots of pyroxene- mottled texture, clots dark black. H<7 just able to scratch tr-0.5% fine dissem po/py
SL-19-01	34.10	36.50	IDIKE	Intermediate Dike - Green -grey fine grained with 1-3% feldspar phenocrysts mainly along upper contact. Massive fine grained unit Sharp upper and lower contacts. H>7 36.0-36.3 narrow crumbly lamprophyre dike.
SL-19-01	36.50	49.40	GABpyrx	Gabbro with pyroxene - Dark green-with very minor 1-5% white feldspar phenocrysts. Distinct coarse pyroxene faces, reflective on core ends. Coarse 1 cm rounded elongate clots of pyroxene- mottled texture, clots dark black. H<7 just able to scratch tr-0.5% fine dissem po/py Sharp upper and lower contact, moderate foliation along lower contact 38.1-38.4 Narrow section of coarse gabbro. 39.9-40.3 Intermediate Dike
SL-19-01	49.40	51.40	IDIKE	Intermediate Dike - Green -grey fine grained with 1-3% feldspar phenocrysts, 1-4mm along upper contact Massive fine grained dark groundmass. Sharp upper and lower contacts H>7
SL-19-01	51.40	102.40	GABxln	Gabbro - Massive generally homogeneous unit. Green with medium grained 25-45% white feldspar phenocrysts subhedral variable size 1-8mm. Matrix is dark green fine grained chloritic?. No coarse Pyroxene H>7 not able to scratch. No sulphides Scattered dark green to light green patches/clasts? Distinct sharp outlines up to 10 cm long Xenoliths 84.0-86.0 Moderate to strong foliation local, chloritic with 10-15% white veins along foliation 90.6-91.5 Moderate foliation, chloritic with 5% qtx veins and veins boudins. 101.2-101.8 Narrow Intermediate dyke, distnict feldspar phenocrysts euhedral 3-5mm sharp contacts
SL-19-01	102.40	107.10	GABxln	Gabbro - Light green with medium grained 20-30% white feldspar phenocrysts subhedral variable size 1-8mm. Matrix is dark green fine grained chloritic?. No coarse Pyroxene H>7 not able to scratch. No sulphides

				Dark green mottled tecture with dark green patches up to 2 cm.
SL-19-01	107.10	114.50	MVOLC	Mafic Volcanic - Dark green fine grained masssive flow. Sharp upper contact. Possible fine grained gabbro from above unit, sharp contact. H>7
SL-19-01	114.50	138.30	MVOLC	Mafic Volcanic- Light green along upper contact with distinct epidote in narrow interval of flow breecia. Massive darker green fine grained with scattered flow bands, possible rare pillow selvedge (116.4m). Weak foliation. H<7 able to scratch 123.5-126.0 Narrow interval with strong shearing, 3-5% grey veins with tr-1% po, tr cpy. Fine .5 feldspar phenocrysts in massive section with scattered local flow features 133.3-134.5 Intermediate dike with Feldpar phenocrysts Distinct amygdules/varioles along lower contact @137m
SL-19-01	138.30	194.00	MVOLC	Mafic Volcanic - Dark green fine grained hard. Unit is dark green distinct ring sound to core. H>7 140.7-141.5 Intermediate dike 147-148 narrow light green flow breccia with 10 cm wide vein 1-3% py. Local light patches of feldspar and epidote flow flatures? Rare grain py. 1cm wide cooling fractures scattered 1 cm wide.
SL-19-01	194.00	196.80	QV	Quartz Veins - 50% white veins up to 50 cm wide. Bleached wallrrock possible gabbro or massive flow? veins contain 1% fine py and tr cpy fine .5mm. No fabric with the alteration and veins. Not a shear.
SL-19-01	196.80	204.50	GAB	Gabbro - Dark green fine grained possible massive flow. H around 7 just able to scratch rare fine sulphide grain and rare bleb.
SL-19-01	204.50	210.80	GABblch	Intermediate Dike - Light grey fine grained bleached unit. Massive Sharp upper contact, diffuse lower contacts Narrow 1 m hairline fractures throughout
SL-19-01	210.80	238.60	GAB	Gabbro - Dark green massive medium grained, magnetic. Feldsar phenocrysts outlines faint tr-1% dissem po,py. Massive non foliated. H 6 just able to scratch Down unit local patches of finer dark mafic material with diffuse margins in medium groundmass gabbro. possibile xenoliths?
SL-19-01	238.60	248.60	GABmin	Gabbro mineralized - Dark green massive medium grained, magnetic. No contact with above gabbro. At 238.6 Sulphide mineralization becomes more pronounced. Stringers and semi massive veins up to .06m Complex texture to Gabbro, darker green fine grained breccia frags/Xenoliths. 238.6-239.1 15-20% po stringers, 1-3% cpy Strong conductor acrross core axis 2 cm 239.1-246.5 1-3% po in dissem, stringers and blebs, tr cpy

				246.5-248.6 5-7% po in stringers and veins 1% cpy
SL-19-01	248.60	252.40	IDIKE	Intermediate Dike - Green -grey fine grained with 3-5% feldspar phenocrysts, 1-4mm along upper contact Massive fine grained unit. Sharp upper contact, lower contact irregular H>7
SL-19-01	252.40	260.90	GABmin	Gabbro mineralized - Dark green medium grained massive with sulphide stringers and disseminations throughout. Stringers become wide enough to form semi massive sulphide veins. Stringers often discontinuous wispy with local patches, wrapping around fragments. 252.4-253.0 1%po 253.0-255.3 50% po semi massive 1-2% cpy. White sulphide Py? Green rounded fragments within sulphides up to 3 cm. Conductive along 10 cm length core 255.23-256.0 1-3% po 1%cpy 256.0 - 257.0 Intermediate dike 257.0-260.9 25-50% po stringers and veins 1-2% cpy. 260.4-260.9 semi massive vein strong conductor, <1cm rounded green clasts
SL-19-01	260.90	265.80	IDIKE	Intermediate Dike - Green -grey fine grained with 3-5% feldspar phenocrysts, 1-4mm along upper contact Massive fine grained unit. upper contact and lower contact irregular diffuse. H>7
SL-19-01	265.80	270.50	GABmin	Gabbro mineralized - Dark green medium grained massive with sulphide stringers and disseminations throughout. Stringers become wide enough to form semi massive sulphide veins. 266.0-267.5 40-50% po semi massive veins up to 30 cm wide strong conductor, rounded green clasts 267.5-268.4 Intermediate dike 268.4-270.5 10-15% po in stringers and disem 1-3% cpy in stringers.
SL-19-01	270.50	271.70	IDIKE	Intermediate Dike - Green -grey fine grained with 3-5% feldspar phenocrysts, 1-4mm along upper contact Massive fine grained unit. upper contact and lower contact irregular diffuse. H>7
SL-19-01	271.70	275.60	GABmin	Gabbro mineralized - Fine grained massive, variable texture. 1-3% po, tr cpy
SL-19-01	275.60	303.10	GAB	Gabbro - Massive medium grained becoming fine grained downhole. Sharp upper contact sugggests a magma pulse? Resembles unit above. Fine feldspar with a even distribution in amphibole/pyroxene matrix. Massive. tr-1% fine po py tr cpy. H 7 not able to scratch Rare 2mm cpy stringers 283.7-285.1 Mafic volcaanic fine grained green flow features possible xenolith soft diffuse margins 292.0-299.5 finer grained interval with some poorly defined MV and IDIKE intervals

SL-19-01	303.10	343.20	GAB	Gabbro - medium grained massive H>7 Rare scattered po bleb, fine po dissem. 315.3-317.7 distinct interval of MV flow, xenolith 336.2-338.0 MVOLC xenolith
SL-19-01	343.20	347.10	IDIKE	Intermediate Dike - Green -grey fine grained with 10-15% feldspar phenocrysts, 3-7mm euhedral. Massive fine grained unit. upper contact and lower contacts sharp. H>7
SL-19-01	347.10	351.60	GAB	Gabbro - medium grained massive H>7 Rare scattered po bleb, fine po dissem.
SL-19-01	351.60	354.10	IDIKE	Intermediate Dike - Green -grey fine grained with 10-15% feldspar phenocrysts, 3-7mm euhedral. Massive fine grained unit. upper contact and lower contacts sharp. H>7
SL-19-01	354.10	378.00	GAB	Gabbro - Fine grained massive to complex variable texture finer grained medium grained variability. H>7 Rare scattered po bleb, fine po dissem. 364.5-365.1 Intermidiate Dike 372.6-373.0 Intermeidiate Dike 378-379 fine lighter section possible contact between gabbro pulses
SL-19-01	378.00	389.20	GAB	Gabbro - Fine grained massive to complex variable texture finer grained medium grained variability. Gradational upper contact
SL-19-01	389.20	399.00	MVOLC	Mafic Volcanic -Dark green fine grained with distinct flow textures, scattered narrow intervals with varioles, amygdules Abrupt upper contact. Scattered 1 cm po blebs. 1-3%
SL-19-01	399.00	400.10	IDIKE	Intermediate Dike - Green -grey fine grained with 10-15% feldspar phenocrysts, 3-7mm euhedral. Massive fine grained unit. upper contact and lower contacts sharp. H>7
SL-19-01	400.10	406.80	GAB	Gabbro - Fine grained massive to complex variable texture finer grained medium grained variability.
SL-19-01	406.80	410.50	MVOLC	Mafic Volcanic - Light grey to green fine grained siliceous, H>7. Distinct spaced cooling fractures every 1 several cm. Narrow 1mm hairline fractures throughout. Local flow breccia texture.
SL-19-01	410.50	415.60	GAB	Gabbro - Fine grained massive to complex variable texture finer grained medium grained variability. Gradational upper contact.

SL-19-01	415.60	426.90	MVOLC	Mafic Volcanic w Argillite - Grey bleached flow breccia interbedded with distinct light grey slatey argillite beds/bands 10-20 cm,crude banding. Scattered wavey chloritic bands, angular breccia fragments flow breccia. H>7 2-3% py along banding planes and disseminated.
SL-19-01	426.90	453.00	GAB	Gabbro - Massive medium grained becoming fine grained downhole. Massive homogeneous. Rare po bleb up to 1 cm. Distinct fine feldspar in groundmass with a fine gabbroic texture. Possibly massive flow but has the fine grained evenly distributed feldspar phenocysts, massive homogenous texture.
SL-19-01	453.00	459.00	GAB	Gabbro - Fine grained aphanictic texture buff color, Chill margin? Evenly spaced fractures, cooling features? Localy brecciated intrusive breccia?
SL-19-01	459.00	471.00	GAB	Gabbro - Massive medium grained becoming fine grained downhole. Massive homogeneous. Rare po bleb upt 1 cm. Distinct fine feldspar in groundmass with a fine gabbroic texture. Possible massive mafic flow.
				EOH

Reflex Tests

BHID	Depth	Az	Declin (-13)	Dip	Mag Field	Mag Susc	Use Az	Use Dip	Comments
SL-19-01	0		330.0	-60.0			Y	Y	As spotted in field
SL-19-01	30.0	341.1	328.1	-60.2	56361		Y	Y	No test below casing, this is OK
SL-19-01	81.0	343.4	330.4	-60.4	56499	0.36	Y	Y	
SL-19-01	150.0	345.3	332.3	-60.9	56449.0	0.47	Y	Y	
SL-19-01	201.0	348.5	335.5	-60.9	56359.0	0.72	Y	Y	
SL-19-01	249.0	38.5	25.5	-60.9	64088.0	0.24	N	Y	Contact with magnetic unit
SL-19-01	300.0	350.2	337.2	-60.8	56796.0	0.50	Y	Y	
SL-19-01	351.0	351.9	338.9	-60.8	56719.0	0.50	Y	Y	
SL-19-01	402.0	354.2	341.2	-60.4	57505.0	0.82	Y	Y	
SL-19-01	450.0	357.6	344.6	-59.7	56116.0	0.46	Y	Y	

Magnetic Susceptibility

BHID	Depth	MS	Lithology
SL-19-01	MS-2	0.04	
SL-19-01	11.0	0.37	GABxln
SL-19-01	17.2	0.51	GABxln
SL-19-01	19.0	0.48	GABxln
SL-19-01	21.6	0.42	GABxln
SL-19-01	24.0	0.50	GABpyrx
SL-19-01	28.5	0.51	GABpyrx
SL-19-01	32.0	0.42	GABpyrx
SL-19-01	MS-3	1.14	
SL-19-01	35.0	0.24	IDIKE
SL-19-01	37.0	0.51	GABpyrx
SL-19-01	43.0	0.46	GABpyrx
SL-19-01	48.0	0.49	GABpyrx
SL-19-01	49.0	0.48	GABpyrx
SL-19-01	50.5	0.20	IDIKE
SL-19-01	52.0	0.38	GABxln
SL-19-01	53.5	0.39	GABxln
SL-19-01	57.0	0.40	GABxln
SL-19-01	62.0	0.42	GABxln
SL-19-01	63.5	0.74	GABxln
SL-19-01	MS-1	76.70	
SL-19-01	72.0	0.41	GABxln
SL-19-01	79.0	0.42	GABxln
SL-19-01	83.5	0.35	GABxln
SL-19-01	85.0	0.21	GABxln
SL-19-01	85.8	0.38	GABxln
SL-19-01	88.5	0.39	GABxln
SL-19-01	96.0	0.45	GABxln
SL-19-01	103.5	0.44	GABxln
SL-19-01	105.5	0.52	GABxln
SL-19-01	106.8	0.40	GABxln
SL-19-01	MS-4	24.50	
SL-19-01	108.2	0.50	MVOLC
SL-19-01	111.0	0.50	MVOLC
SL-19-01	114.0	0.47	MVOLC
SL-19-01	117.0	0.41	MVOLC
SL-19-01	118.0	2.17	MVOLC
SL-19-01	120.0	0.44	MVOLC
SL-19-01	121.0	0.41	MVOLC
SL-19-01	124.0	0.36	MVOLC
SL-19-01	126.5	0.43	MVOLC
SL-19-01	128.0	0.47	MVOLC

SL-19-01	MS-2	0.21	
SL-19-01	130.0	0.75	MVOLC
SL-19-01	133.0	1.45	MVOLC
SL-19-01	135.5	0.89	MVOLC
SL-19-01	137.1	0.96	MVOLC
SL-19-01	138.7	1.48	MVOLC
SL-19-01	141.5	0.44	MVOLC
SL-19-01	MS-2	0.14	
SL-19-01	146.5	0.47	MVOLC
SL-19-01	150.0	0.47	MVOLC
SL-19-01	153.0	0.70	MVOLC
SL-19-01	159.0	0.48	MVOLC
SL-19-01	165.0	0.53	MVOLC
SL-19-01	168.5	0.49	MVOLC
SL-19-01	176.0	0.46	MVOLC
SL-19-01	181.0	0.65	MVOLC
SL-19-01	187.0	0.54	MVOLC
SL-19-01	192.5	0.33	MVOLC
SL-19-01	195.0	0.38	QV
SL-19-01	MS-1	72.70	
SL-19-01	197.0	0.40	GAB
SL-19-01	200.5	0.52	GAB
SL-19-01	203.0	0.47	GAB
SL-19-01	205.0	0.41	GABblch
SL-19-01	208.0	0.40	GABblch
SL-19-01	211.0	0.49	GAB
SL-19-01	212.0	0.9	GAB
SL-19-01	213.5	1.80	GAB
SL-19-01	216.0	0.84	GAB
SL-19-01	219.0	3.96	GAB
SL-19-01	222.0	3.22	GAB
SL-19-01	MS-4	24.60	
SL-19-01	225.0	2.96	GAB
SL-19-01	227.5	0.57	GAB
SL-19-01	233.0	0.53	GAB
SL-19-01	237.0	0.79	GAB
SL-19-01	238.6	26.00	GABmin
SL-19-01	240.0	2.17	GABmin
SL-19-01	243.0	3.68	GABmin
SL-19-01	246.0	0.95	GABmin
SL-19-01	248.5	1.42	GABmin
SL-19-01	249.0	0.24	IDIKE
SL-19-01	MS-3	1.18	
SL-19-01	251.5	0.21	IDIKE
SL-19-01	253.0	13.70	GABmin

SL-19-01	256.0	4.77	GABmin
SL-19-01	257.0	15.70	GABmin
SL-19-01	260.0	14.00	GABmin
SL-19-01	261.0	0.48	IDIKE
SL-19-01	264.0	0.34	IDIKE
SL-19-01	266.0	8.77	GABmin
SL-19-01	267.0	65.80	GABmin
SL-19-01	269.0	3.43	GABmin
SL-19-01	272.0	0.55	GABmin
SL-19-01	274.5	0.60	GABmin
SL-19-01	277.5	0.75	GAB
SL-19-01	MS-3	1.19	
SL-19-01	282.0	0.49	GAB
SL-19-01	290.5	0.52	GAB
SL-19-01	291.5	0.78	GAB
SL-19-01	293.5	0.55	GAB
SL-19-01	299.0	0.48	GAB
SL-19-01	303.0	0.58	GAB
SL-19-01	307.0	0.78	GAB
SL-19-01	MS-1	75.80	
SL-19-01	313.0	2.10	GAB
SL-19-01	317.0	1.38	GAB
SL-19-01	323.0	0.56	GAB
SL-19-01	327.0	0.54	GAB
SL-19-01	333.0	0.43	GAB
SL-19-01	338.0	0.67	GAB
SL-19-01	342.0	0.23	GAB
SL-19-01	MS-2	0.05	
SL-19-01	344.0	0.52	IDIKE
SL-19-01	346.0	1.22	IDIKE
SL-19-01	350.0	0.36	GAB
SL-19-01	354.5	0.51	GAB
SL-19-01	358.5	0.55	GAB
SL-19-01	364.0	0.82	GAB
SL-19-01	367.0	1.35	GAB
SL-19-01	MS-3	1.14	
SL-19-01	370.0	0.80	GAB
SL-19-01	380.0	0.59	GAB
SL-19-01	384.0	2.29	GAB
SL-19-01	384.5	1.23	GAB
SL-19-01	397.0	1.16	MVOLC
SL-19-01	403.0	2.98	GAB
SL-19-01	406.0	1.19	GAB
SL-19-01	406.5	1.71	MVOLC
SL-19-01	MS-1	75.60	

SL-19-01	408.5	0.67	MVOLC
SL-19-01	414.5	0.34	GAB
SL-19-01	415.5	0.40	GAB
SL-19-01	MS-2	0.05	
SL-19-01	417.0	0.26	MVOLC
SL-19-01	420.0	1.96	MVOLC
SL-19-01	423.5	1.98	MVOLC
SL-19-01	426.5	0.55	MVOLC
SL-19-01	428.0	0.89	GAB
SL-19-01	432.0	0.53	GAB
SL-19-01	435.0	1.02	GAB
SL-19-01	439.5	0.58	GAB
SL-19-01	442.5	0.58	GAB
SL-19-01	448.0	0.29	GAB
SL-19-01	MS-3	1.07	
SL-19-01	451.0	0.45	GAB
SL-19-01	457.0	1.14	GAB
SL-19-01	461.0	0.50	GAB
SL-19-01	465.5	0.49	GAB
SL-19-01	470.0	0.57	GAB

Conductivity

BHID	Depth	Width
SL-19-01	238.8	5.0
SL-19-01	244.8	2.0
SL-19-01	246.6	8.0
SL-19-01	246.9	2.0
SL-19-01	248.0	5.0
SL-19-01	248.2	2.0
SL-19-01	242.4	2.0
SL-19-01	253.2	10
SL-19-01	253.9	30
SL-19-01	254.6	40
SL-19-01	255.3	20
SL-19-01	255.7	5
SL-19-01	257.2	10
SL-19-01	258.5	2
SL-19-01	258.7	3
SL-19-01	259.1	3
SL-19-01	259.7	15
SL-19-01	260.1	10
SL-19-01	260.4	50
SL-19-01	266.0	30
SL-19-01	266.5	70
SL-19-01	267.5	2
SL-19-01	268.5	20
SL-19-01	269.1	10
SL-19-01	269.8	2
SL-19-01	270.4	1
SL-19-01	272.1	1

Specific Gravity

BHID	Date	Depth	Litho	Dry 1	Dry 2	Average	Wet 1	Wet 2	Average	SG	Mag Susc
SL-19-01	September 13, 2019	Weight	130.0	130.21	130.21	130.21			0.00	1.00	
SL-19-01	September 13, 2019	SG-1	Jasper	367.07	367.08	367.08	232.30	232.39	232.35	2.72	
SL-19-01	September 13, 2019	20.00	GABxln	350.51	350.51	350.51	236.96	236.99	236.98	3.09	0.35
SL-19-01	September 13, 2019	28.80	GABpyrx	403.13	403.29	403.21	269.06	269.06	269.06	3.01	0.37
SL-19-01	September 14, 2019	43.20	GABpyrx	455.86	455.78	455.82	298.85	298.8	298.83	2.90	0.51
SL-19-01	September 13, 2019	54.00	GABxln	449.18	449.17	449.18	304.44	304.38	304.41	3.10	0.38
SL-19-01	September 14, 2019	79.80	GABxln	421.22	421.22	421.22	284.89	284.82	284.86	3.09	0.35
SL-19-01	September 14, 2019	111.00	MVOLC	427.13	427.13	427.13	286.83	286.84	286.84	3.04	0.36
SL-19-01	September 14, 2019	119.00	MVOLC	462.07	462.07	462.07	297.29	297.28	297.29	2.80	0.57
SL-19-01	September 14, 2019	155.50	MVOLC	400.43	400.43	400.43	270.78	270.77	270.78	3.09	0.38
SL-19-01	September 14, 2019	Weight	100.52	100.69		50.35			0.00	1.00	
SL-19-01	Septembr 15, 2019	SG-4	Glass	273.72	273.72	273.72	163.95	163.95	163.95	2.49	
SL-19-01	Septembr 15, 2019	188.60	MVOLC	387.64	387.64	387.64	258.09	258.09	258.09	2.99	0.45
SL-19-01	Septembr 15, 2019	232.00	GAB	407.55	407.56	407.56	275.12	275.14	275.13	3.08	0.40
SL-19-01	Septembr 15, 2019	244.70	GABmin	262.08	262.08	262.08	175.95	175.50	175.73	3.03	1.13
SL-19-01	Septembr 15, 2019	260.50	GABmin	559.85	559.84	559.85	429.70	429.70	429.70	4.30	72.50
SL-19-01	Septembr 15, 2019	263.00	IDIKE	351.50	351.50	351.50	233.15	233.10	233.13	2.97	0.23
SL-19-01	Septembr 15, 2019	266.50	GABmin	624.12	624.09	624.11	467.03	467.08	467.06	3.97	57.50
SL-19-01	Septembr 15, 2019	269.50	GABmin	575.00	575.00	575.00	404.82	404.83	404.83	3.38	22.10
SL-19-01	Septembr 15, 2019	279.70	GAB	266.87	266.88	266.88	179.62	179.61	179.62	3.06	1.08
SL-19-01	Septembr 15, 2019	Weight	207	207.34							
SL-19-01	Septembr 15, 2019	SG-3	MASS	80.3	80.3	80.30	62.90	62.99	62.95	4.63	
SL-19-01	Septembr 16, 2019	303.50	GAB	479.72	479.71	479.72	322.56	322.59	322.58	3.05	0.74
SL-19-01	Septembr 16, 2019	335.00	GAB	439.31	439.31	439.31	295.49	295.54	295.52	3.06	0.37
SL-19-01	Septembr 16, 2019	375.00	GAB	645.21	645.19	645.20	433.15	433.16	433.16	3.04	1.88
SL-19-01	Septembr 17, 2019	SG-2	Core	631.36	631.37	631.37	429.75	429.71	429.73	3.13	
SL-19-01	Septembr 17, 2019	Weight	12	12.02		6.01			0.00	1.00	
SL-19-01	Septembr 17, 2019	382.50	GAB	500.52	500.52	500.52	336.12	336.12	336.12	3.04	2.47
SL-19-01	Septembr 17, 2019	417.00	MVOLC	563.83	563.84	563.84	360.83	360.84	360.84	2.78	0.82
SL-19-01	Septembr 17, 2019	420.00	MVOLC	341.27	341.25	341.26	221.47	221.44	221.46	2.85	0.58
SL-19-01	Septembr 15, 2019	447.00	GAB	430.68	430.68	430.68	288.95	288.93	288.94	3.04	0.88
SL-19-01	Septembr 16, 2019	467.50	GAB	567.13	567.13	567.13	382.34	382.33	382.34	3.07	0.42

Core Angles

BHID	Depth	Core Angle	Foliation	Contact	Fault gouge	Comment
SL-19-01	32.50	40	Weak	Contact		
SL-19-01	34.10	75		Contact		Small dike along contact
SL-19-01	38.80	40	Weak			
SL-19-01	48.00	50	Weak			
SL-19-01	49.00	55	Weak			Contact near dike margin
SL-19-01	85.00	45	Strong			Narrow Shear w QV
SL-19-01	91.00	35	Weak			
SL-19-01	108.00	80		Contact		Abrupt contact
SL-19-01	115.50	35	Weak			MV flow features
SL-19-01	124.00	65	Mod			Narrow shear grey QV
SL-19-01	140.40	55	Weak			MV flow features
SL-19-01	173.00	65				Healed fractures
SL-19-01	194.00	80		QV contact		
SL-19-01	195.30	60		QV contact		
SL-19-01	204.50	40		Contact		
SL-19-01	232.0	55	Weak			
SL-19-01	238.6	40				Sulphide Stringer
SL-19-01	246.8	40				Sulphide Stringer
SL-19-01	248.6	50		Contact		
SL-19-01	254.5	10				Sulphide Stringer
SL-19-01	255.5	35				Sulphide Stringer
SL-19-01	260.5	55				Sulphide Stringer
SL-19-01	260.9	75		Contact		
SL-19-01	266.0	10				Sulphide Stringer
SL-19-01	315.2	60				MVOLC flow feature
SL-19-01	336.5	35				MVOLC flow feature
SL-19-01	343.2	15		Contact		
SL-19-01	347.1	80		Contact		
SL-19-01	407.0	20	Weak			Flow contact?
SL-19-01	410.0	20	Weak			Flow contact?
SL-19-01	417.0	30				flow breccia
SL-19-01	418.5	30				Flow breccia
SL-19-01	424.0	10				Flow breccia
SL-19-01	426.4	70		Contact		
SL-19-01	442.0	30	Weak			

Rock Quality Designation

BHID	From	To	Recovery	RQD	Comments
SL-19-01	10.3	12	1.60		Casing
SL-19-01	12	15	3.00	2.85	
SL-19-01	15	18	3.00	2.95	
SL-19-01	18	21	3.00	2.95	
SL-19-01	21	24	3.00	2.90	
SL-19-01	24	27	3.00	2.90	
SL-19-01	27	30	3.00	2.90	
SL-19-01	30	33	3.00	2.90	
SL-19-01	33	36	2.95	2.80	
SL-19-01	36	39	2.95	2.75	
SL-19-01	39	42	2.30	1.90	.7m ground core soft fault
SL-19-01	42	45	3.00	3.00	
SL-19-01	45	48	3.00	3.00	
SL-19-01	48	51	3.00	2.80	
SL-19-01	51	54	3.00	3.00	
SL-19-01	54	57	3.00	3.00	
SL-19-01	57	60	3.00	3.00	
SL-19-01	60	63	3.00	3.00	
SL-19-01	63	66	3.00	2.90	
SL-19-01	66	69	3.00	2.90	
SL-19-01	69	72	3.00	2.90	
SL-19-01	72	75	3.00	3.00	
SL-19-01	75	78	3.00	3.00	
SL-19-01	78	81	3.00	2.80	
SL-19-01	81	84	3.00	2.90	
SL-19-01	84	87	2.90	2.10	
SL-19-01	87	90	3.00	3.00	
SL-19-01	90	93	3.00	3.00	
SL-19-01	93	96	3.00	2.90	
SL-19-01	96	99	3.00	2.90	
SL-19-01	99	102	3.00	3.00	
SL-19-01	102	105	3.00	3.00	
SL-19-01	105	108	3.00	2.90	
SL-19-01	108	111	3.00	3.00	
SL-19-01	111	114	3.00	2.90	
SL-19-01	114	117	3.00	3.00	
SL-19-01	117	120	3.00	3.00	
SL-19-01	120	123	3.00	2.80	
SL-19-01	123	126	3.00	2.70	
SL-19-01	126	129	3.00	2.90	
SL-19-01	129	132	3.00	2.80	
SL-19-01	132	135	3.00	3.00	

SL-19-01	135	138	3.00	3.00
SL-19-01	138	141	3.00	2.90
SL-19-01	141	144	3.00	3.00
SL-19-01	144	147	3.00	3.00
SL-19-01	147	150	3.00	3.00
SL-19-01	150	153	3.00	3.00
SL-19-01	153	156	3.00	3.00
SL-19-01	156	159	3.00	3.00
SL-19-01	159	162	3.00	2.90
SL-19-01	162	165	3.00	3.00
SL-19-01	165	168	3.00	3.00
SL-19-01	168	171	3.00	2.90
SL-19-01	171	174	3.00	2.90
SL-19-01	174	177	3.00	2.90
SL-19-01	177	180	2.90	2.60
SL-19-01	180	183	3.00	2.90
SL-19-01	183	186	3.00	2.80
SL-19-01	186	189	3.00	2.90
SL-19-01	189	192	3.00	2.80
SL-19-01	192	195	3.00	2.90
SL-19-01	195	198	3.00	2.90
SL-19-01	198	201	2.90	2.60
SL-19-01	201	204	3.00	2.90
SL-19-01	204	207	3.00	3.00
SL-19-01	207	210	3.00	3.00
SL-19-01	210	213	3.00	3.00
SL-19-01	213	216	3.00	3.00
SL-19-01	216	219	3.00	2.90
SL-19-01	219	222	3.00	3.00
SL-19-01	222	225	3.00	2.90
SL-19-01	225	228	3.00	3.00
SL-19-01	228	231	3.00	3.00
SL-19-01	231	234	3.00	2.90
SL-19-01	234	237	3.00	2.70
SL-19-01	237	240	3.00	3.00
SL-19-01	240	243	3.00	3.00
SL-19-01	243	246	3.00	3.00
SL-19-01	246	249	3.00	2.90
SL-19-01	249	252	3.00	2.90
SL-19-01	252	255	3.00	3.00
SL-19-01	255	258	3.00	3.00
SL-19-01	258	261	3.00	3.00
SL-19-01	261	264	3.00	3.00
SL-19-01	264	267	3.00	2.90
SL-19-01	267	270	3.00	3.00

SL-19-01	270	273	3.00	3.00
SL-19-01	273	276	3.00	3.00
SL-19-01	276	279	3.00	3.00
SL-19-01	279	282	3.00	3.00
SL-19-01	282	285	3.00	2.90
SL-19-01	285	288	3.00	3.00
SL-19-01	288	291	3.00	3.00
SL-19-01	291	294	3.00	3.00
SL-19-01	294	297	3.00	2.80
SL-19-01	297	300	3.00	2.90
SL-19-01	300	303	3.00	2.70
SL-19-01	303	306	3.00	2.80
SL-19-01	306	309	3.00	2.80
SL-19-01	309	312	3.00	2.90
SL-19-01	312	315	3.00	2.90
SL-19-01	315	318	3.00	2.70
SL-19-01	318	321	3.00	2.90
SL-19-01	321	324	3.00	2.90
SL-19-01	324	327	3.00	2.90
SL-19-01	327	330	3.00	2.90
SL-19-01	330	333	3.00	2.90
SL-19-01	333	336	3.00	3.00
SL-19-01	336	339	3.00	2.80
SL-19-01	339	342	3.00	2.80
SL-19-01	342	345	3.00	2.90
SL-19-01	345	348	3.00	3.00
SL-19-01	348	351	3.00	2.90
SL-19-01	351	354	3.00	2.90
SL-19-01	354	357	3.00	3.00
SL-19-01	357	360	3.00	3.00
SL-19-01	360	363	3.00	3.00
SL-19-01	363	366	3.00	3.00
SL-19-01	366	369	3.00	3.00
SL-19-01	369	372	3.00	2.90
SL-19-01	372	375	3.00	3.00
SL-19-01	375	378	3.00	2.90
SL-19-01	378	381	3.00	2.80
SL-19-01	381	384	3.00	2.70
SL-19-01	384	387	3.00	2.80
SL-19-01	387	390	3.00	2.80
SL-19-01	390	393	3.00	2.70
SL-19-01	393	396	3.00	2.90
SL-19-01	396	399	3.00	2.90
SL-19-01	399	402	3.00	2.90
SL-19-01	402	405	3.00	3.00

SL-19-01	405	408	3.00	2.90
SL-19-01	408	411	3.00	2.80
SL-19-01	411	414	3.00	2.90
SL-19-01	414	417	3.00	2.90
SL-19-01	417	420	3.00	3.00
SL-19-01	420	423	3.00	2.80
SL-19-01	423	426	3.00	2.90
SL-19-01	426	429	2.90	2.70
SL-19-01	429	432	3.00	2.90
SL-19-01	432	435	3.00	2.80
SL-19-01	435	438	3.00	2.90
SL-19-01	438	441	3.00	2.60
SL-19-01	441	444	3.00	2.80
SL-19-01	444	447	3.00	2.80
SL-19-01	447	450	3.00	3.00
SL-19-01	450	453	3.00	2.80
SL-19-01	453	456	3.00	3.00
SL-19-01	456	459	3.00	3.00
SL-19-01	459	462	3.00	3.00
SL-19-01	462	465	3.00	3.00
SL-19-01	465	468	3.00	3.00
SL-19-01	468	471	3.00	3.00

Samples

BHID	Sample	From	To	Width	Stand/blank	Litho	Py + Po %	Cpy %	Qtz Veins %	Ni (ppm)	Cu (ppm)	Co (ppm)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)	Re- Cu (%)	Re-Ni (%)	Re-S (%)
SL-19-01	X948451	30.5	31.5	1.0		GABpyrx	0.5	0.005		142	55	38	0.05	<0.001	<0.005	<0.001			
SL-19-01	X948452	123.0	123.5	0.5		MVOLC				85	3	39	<0.01	<0.001	<0.005	<0.001			
SL-19-01	X948453	123.5	124.5	1.0		MVOLC	0.5		5	102	16	39	0.08	0.003	<0.005	<0.001			
SL-19-01	X948454	124.5	125.5	1.0		MVOLC	0.5		3	89	2	33	<0.01	<0.001	<0.005	0.001			
SL-19-01	X948455	125.5	126.0	0.5		MVOLC				88	20	35	0.18	<0.001	<0.005	<0.001			
SL-19-01	X948456	147.0	148.0	1.0		MVOLC	0.5		5	66	210	29	0.48	<0.001	<0.005	<0.001			
SL-19-01	X948457	193.0	194.0	1.0		MVOLC	1			83	343	50	0.73	0.002	<0.005	0.004			
SL-19-01	X948458	194.0	194.5	0.5		QV	0.5		100	8	125	10	0.18	<0.001	<0.005	<0.001			
SL-19-01	X948459	194.5	195.0	0.5		QV	0.5	0.5	20	92	697	76	1.04	0.015	<0.005	<0.001			
SL-19-01	X948460	195.0	196.2	1.2		QV	2	0.5	75	60	771	21	0.43	0.005	<0.005	<0.001			
SL-19-01	X948461	196.2	196.8	0.6		QV	1			283	9	39	0.08	<0.001	<0.005	0.001			
SL-19-01	X948462	196.8	198.0	1.2		GAB	0.5			56	49	24	0.1	<0.001	<0.005	<0.001			
SL-19-01	X948463	237.5	238.5	1.0		GAB	0.5			516	433	38	0.4	0.013	0.006	0.005			
SL-19-01	X948464			0.0	Blank					4	7	<1	<0.01	0.005	<0.005	<0.001			
SL-19-01	X948465	238.5	239.5	1.0		GABmin	3	1		3320	6470	155	2.56	0.073	0.043	0.046			
SL-19-01	X948466	239.5	241.0	1.5		GABmin	2	0.5		1620	5130	84	1.51	0.122	0.018	0.023			
SL-19-01	X948467	241.0	242.5	1.5		GABmin	2	0.5		1340	2550	70	1.16	0.033	0.007	0.018			
SL-19-01	X948468	242.5	244.0	1.5		GABmin	7	1		3550	2830	175	2.48	0.122	0.036	0.039			
SL-19-01	X948469			0.0	13b					2260	2430	45	1.19	0.219	0.201	0.13			
SL-19-01	X948470	244.0	245.5	1.5		GABmin	3	0.5		1810	1890	93	1.47	0.037	<0.005	0.013			
SL-19-01	X948471	245.5	247.0	1.5		GABmin	10	1		4250	3160	205	2.83	0.062	0.009	0.036			
SL-19-01	X948472	247.0	248.6	1.6		GABmin	5	0.5		6340	2250	296	3.65	0.024	0.056	0.051			
SL-19-01	X948473	248.6	250.0	1.4		IDIKE				284	54	22	0.13	<0.001	0.005	0.002			
SL-19-01	X948474	250.0	251.5	1.5		IDIKE				72	4	10	<0.01	<0.001	<0.005	0.001			
SL-19-01	X948475	251.5	252.4	0.9		IDIKE				107	73	12	0.04	<0.001	<0.005	0.001			
SL-19-01	X948476	252.4	253.5	1.1		GABmin	7	1		3110	4100	157	2.28	0.031	0.025	0.033			
SL-19-01	X948477	253.5	254.5	1.0		GABmin	25	0.5		16300	4100	752	7.69	0.048	0.573	0.139		1.63	
SL-19-01	X948478	254.5	255.5	1.0		GABmin	35	1		17750	1570	829	7.18	0.025	0.357	0.113		1.775	
SL-19-01	X948479	255.5	256.0	0.5		GABmin	3	0.5		2290	12300	121	2.14	0.117	0.098	0.031	1.23		
SL-19-01	X948480	256.0	256.7	0.7		IDIKE				606	271	35	0.47	0.01	0.076	0.006			
SL-19-01	X948481	256.7	258.0	1.3		GABmin	10	0.5		8510	4620	389	4.57	0.009	0.09	0.1			
SL-19-01	X948482	258.0	259.0	1.0		GABmin	15	1		5520	4330	265	3.52	0.041	0.093	0.061			
SL-19-01	X948483			0.0	Blank					30	22	1	0.02	<0.001	<0.005	<0.001			
SL-19-01	X948484	259.0	260.0	1.0		GABmin	20	0.5		14950	6130	659	7.02	0.047	0.249	0.141		1.495	
SL-19-01	X948485	260.0	260.9	0.9		GABmin	50	1		23900	3510	1060	8.02	3.11	0.11	0.213		2.39	
SL-19-01	X948486	260.9	262.5	1.6		IDIKE				745	968	41	0.66	0.002	<0.005	0.008			
SL-19-01	X948487	262.5	264.0	1.5		IDIKE				106	21	11	0.02	<0.001	<0.005	0.001			
SL-19-01	X948488	264.0	265.0	1.0		IDIKE				131	54	12	0.01	<0.001	<0.005	0.001			
SL-19-01	X948489	265.0	265.8	0.8		IDIKE				94	210	10	0.03	0.17	<0.005	<0.001			
SL-19-01	X948490	265.8	266.5	0.7		GABmin	20			5650	11700	252	3.59	0.03	0.115	0.063	1.17		
SL-19-01	X948491	266.5	267.5	1.0		GABmin	75	2		26600	4580	1175	8.59	0.023	0.6	0.197		2.66	

SL-19-01	X948492			0.0	14p					20600	10050	664	24.4	0.049	0.098	0.145	1.005	2.06	24.4
SL-19-01	X948493	267.5	268.4	0.9		GABmin	10	1		327	637	68	0.51	0.053	0.014	0.004			
SL-19-01	X948494	268.4	269.5	1.1		GABmin	15	3		12300	15000	695	7.39	0.4	0.294	0.117	1.5	1.23	
SL-19-01	X948495	269.5	270.5	1.0		GABmin	5	3		4090	9050	201	2.87	0.032	0.13	0.056			
SL-19-01	X948496	270.5	271.7	1.2		IDIKE				117	149	13	0.07	0.001	<0.005	0.001			
SL-19-01	X948497	271.7	273.0	1.3		GABmin	1	0.5		601	3150	44	0.7	0.041	0.044	0.008			
SL-19-01	X948498	273.0	274.0	1.0		GABmin	1	0.5		74	606	18	0.09	0.005	<0.005	0.002			
SL-19-01	X948499	274.0	275.0	1.0		GABmin	1			178	137	19	0.14	0.002	<0.005	0.002			
SL-19-01	X948500	275.0	275.6	0.6		GABmin	1			290	442	28	0.3	0.01	<0.005	0.004			
SL-19-01	X948501	275.6	277.0	1.4		GAB	0.5			219	230	24	0.23	0.003	<0.005	0.003			
SL-19-01	X948502	277.0	278.0	1.0		GAB	0.5			338	331	38	0.51	0.004	0.005	0.004			
SL-19-01	X948503	304.0	305.0	1.0		GAB	0.5			74	286	49	0.74	0.001	<0.005	0.001			
SL-19-01	X948504	375.5	376.5	1.0		GAB	0.5			93	184	40	0.73	<0.001	<0.005	0.001			
SL-19-01	X948505	204.5	206.0	1.5		GAB	0.5		1	76	62	39	0.16	0.001	<0.005	0.001			
SL-19-01	X948506	206.0	207.5	1.5		GAB	0.5		1	83	16	32	0.04	<0.001	<0.005	0.001			
SL-19-01	X948507	207.5	209.0	1.5		GAB	0.5		1	89	84	46	0.31	0.001	<0.005	0.001			
SL-19-01	X948508	209.0	210.0	1.0		GAB	0.5		1	78	77	39	0.23	<0.001	<0.005	0.001			
SL-19-01	X948509	210.0	210.8	0.8		GAB	0.5		1	70	48	31	0.13	<0.001	<0.005	0.001			
SL-19-01	X948510	391.0	392.0	1.0		MVOLC	1			75	95	22	0.47	<0.001	<0.005	0.001			
SL-19-01	X948511			0.0	Blank					3	11	<1	0.01	<0.001	<0.005	0.001			
SL-19-01	X948512	392.0	393.0	1.0		MVOLC	1			80	177	31	0.7	<0.001	<0.005	<0.001			
SL-19-01	X948513	422.0	423.5	1.5		MVOLC	3			98	277	49	2.76	0.274	<0.005	0.001			
SL-19-01	X948514	423.5	425.0	1.5		MVOLC	5			87	259	56	2.13	0.015	<0.005	0.001			

MIC-19-02

Drill Hole Summary

DDH ID	SL-19-02							
		(Nad 83)						
	Cell Mining Claim #	Zone	East (UTM)	North (UTM)	Elev	Az	Dip	EOH (m)
Location	237156	17U	603778	5469185	291.8	330	-75	441.00

Purpose	Test 100 m down dip continuity of conductive sulphide mineralization intersected in SL-19-01
Explanation	Down dip continuity of sulphides not intersected, possible change in dip to mineraization to north.
Start date	September 17, 2019
End date	September 21, 2019
Drill Contractor	NPLH Drilling
Core Size	NQ
Core Storage	Doug Bryant Shop Airport Road, Timmins - 17U 472500/5378900

Casing	Casing left in ground	**Capping**	Metal Cap with Metal Flag
Artesian Y/N	Yes water pumped from Sl-19-02 casing during drilling of SL-19-03		
Water Source	Small creek within 200m of drill - 17U 603519/5469269		
Logged By	Todd Keast		
Log Completed	September 21, 2019	**Assays Added September 19, 2019**	October 9, 2019
Comments	Drill camp at gravel pit on Tomlinson Road 17U 576330/5467800		
Comments	Chopper landing pad - 17U 603431/5469387		
Comments	Borehole EM survey not completed this hole		

Lithologies

BHID	From	To	Litho	Comment
SL-19-02	0	9.00	CAS	CASING-Overburden
SL-19-02	9.00	23.50	GABxln	Gabbro - Green with medium grained 10-15% white feldspar phenocrysts subhedral variable size 1-5mm. Matrix is dark green fine grained chloritic, soft green scratch. H<7 just able to scratch. No sulphides Textural variation over short distanes suggest magma pules intrusive brecciation.
SL-19-02	23.50	41.40	GABpyrx	Gabbro with pyroxene - Dark green-with 5-10% % white fine feldspar phenocrysts. Distinct coarse pyroxene faces, reflective on core ends. Coarse 1 cm rounded elongate clots of pyroxene- mottled texture, clots dark black. H<7 just able to scratch. Texture shows considerable variability. tr-0.5% fine dissem po/py Upper contact 20 cm fine grained mafic.
SL-19-02	41.40	56.20	GABxln	Gabbro - Green with medium grained 10-15% white feldspar phenocrysts subhedral variable size 1-5mm. Matrix is dark green fine grained chloritic, soft green scratch. H<7 just able to scratch. No sulphides Local 10-40 cm sections of finer grained gabbro texture. Considerable testural variability
SL-19-02	56.20	57.70	IDIKE	Intermediate Dike - Green -grey fine grained with 1-3% feldspar phenocrysts mainly along upper contact. Massive fine grained unit Sharp upper and lower contacts. H>7
SL-19-02	57.70	59.20	GABxln	Gabbro - Green with medium grained 10-15% white feldspar phenocrysts subhedral variable size 1-5mm. Matrix is dark green fine grained chloritic, soft green scratch. H<7 just able to scratch. No sulphides Local 10-40 cm sections of finer grained gabbro texture. Considerable testural variability
SL-19-02	59.20	60.50	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral upt 5mm.
SL-19-02	60.50	76.40	GABxln	Gabbro - Green with medium grained 10-20% white feldspar phenocrysts subhedral variable size 1-8mm. Matrix is dark green fine grained chloritic?. No coarse Pyroxene H>7 not able to scratch. No sulphides 84.0-86.0 Moderate to strong foliation local, chloritiec with 10-15% white veins along foliation 101.2-101.8 Narrow Intermediate dyke, distnict feldspar phenocrysts euhedral 3-5mm sharp contacts
SL-19-02	76.40	94.10	GABblch	Gabbro altered- Light grey buff color with distinct feldspar phencorysts altered light biege brown color. Texture resembles above gabbro texture with 15-20% feldspars altered brown. Matrix fine grey hard siliceous. H>7 not able to scratch. No sulphides Abrupt upper contact gradational lower contact
SL-19-02	94.10	112.90	GABxln	Gabbro - Green with medium grained 10-20% white feldspar phenocrysts subhedral variable size 1-8mm. Matrix is dark green fine grained chloritic?. No coarse Pyroxene

				H>7 not able to scratch. No sulphides, gradational upper contact 96.5-97.2 low angle fault zone with narrow cm size Quartz veins at 20 deg to CA. 104.2 106.6 healed fault zone at 20 deg to CA. Soft granuar carb. Angular wall rock fragments in carb matrix. Invreasing variability in texture going down unit. Feldspar less evidedent.
SL-19-02	112.90	118.10	GAB	Gabbro - Variable textured as approaches the lower contact. Feldpsar finer grained not crystalline texture. Coarse and fine grained intervals, no contacts or distinct foliation.
SL-19-02	118.10	123.60	MVOLC	Mafic Volcanic - Dark green fine grained masssive flow. Abrupt upper contact. Local gabbroic looking xenoliths rounded patchy appearance. Local fine brown biotite in siliceaous groundmass H>7
SL-19-02	123.60	192.60	MVOLC	Mafic Volcanic- Dark green fine grained. No feldspar phenocrysts. Massive fine flow? H<7 able to scratch 130-133.3 local interval with 1-3% narrow qtz veins. Textural variablilty down unit suggest flow not gabbro. rare po,py grain. 177.5 - downunit brown hairline fractures with wispy white .5mm stringers along core axis Chloritic green scratch. Fine patchy brown biotite. 180.0-180.4 BBC 188.3 -188.6 White carb vein barren.
SL-19-02	192.60	216.70	GAB	Gabbro - Dark green fine grained massive. Distinct 0.5mm white feldspar lathes. Upper contact abrupt. 195.1-195.3 MV xenolith. Massive H>7
SL-19-02	216.70	223.70	GABblch	Gabbro Altered - Gabbro texture but increasing bleached light color. Gradational upper contact. 3-5% grey to whit qv up to 10 cm in length. 322.1 -322.3 white grey vein with 3-5% green fuccsite. Tr py 223.1-223.7 IDIKE
SL-19-02	223.70	260.50	GAB	Gabbro - Dark green fine grained massive. Distinct 0.5mm white feldspar lathes. Gradational upper contact 226.1-226.7 Grey qtz vein 1-3% py cubes dissem at 25 deg to ca. Downhole gabbro medium grained massive homogeneous. 252.0-257.5 bleached fine grained cooling features, 1 mm hailrine fractures siliceous with fine brown biotite.
SL-19-02	260.50	272.10	MVOLC	Mafic Volcanic - Dark green fine grained. Weakly foliated. Chloritic, with scattered variolitic flow intervals Variable hardness. Xenolith?

SL-19-02	272.10	293.60	GAB	Gabbro - Dark green fine grained massive. Distinct 0.5mm white feldspar lathes. Sharp upper contact 276.0-277.8 - Mafic Volcanic Xenolith?
SL-19-02	293.60	299.80	MVOLC	Mafic Volcanic - Dark green fine grained. Weakly foliated. Chloritic, with scattered variolitic flow intervals Variable hardness. Xenolith?
SL-19-02	299.80	304.30	IDIKE	Intermediate Dike - Light grey fine grey matrix with 3-5% feldspar phenocrysts. Sharp upper and lower contacts
SL-19-02	304.30	308.30	GABblch	Gabbro altered -Fine grained bleached grey gabrroic texture. Rafted into Dike?
SL-19-02	308.30	317.80	IDIKE	Intermediate Dike - Light grey fine grey matrix with 15-20% feldspar phenocrysts. Sharp upper and lower contacts
SL-19-02	317.80	320.20	GAB	Gabbro - Dark green fine grained massive. Distinct 0.5mm white feldspar lathes. Sharp upper contact
SL-19-02	320.20	340.70	GABxln	Gabbro/Diorite - Light green densely fine feldspar in grey groundmass. Very massive Sharp upper contact. Intrusive brecccia appearance considerable vtextureal variability. 321.0-322.0 IDIKE
SL-19-02	340.70	401.50	MVOLC	Mafic Volcanic - Dark green fine grained. Weakly foliated. Chloritic, with scattered variolitic flow intervals Flow breccia textures and pillow selvedges. Xenolith Scattered sections of lighter gabbro material, discontinuous nature to Mafic flows-possible gabbro breccia with MVOLC as xenoliths tightly packed.??? 344.9 =347.9 narrow dark green interval aphanitic. well defined pillow selvedges xenoliths? 355.0 Well preserved pillow selvedges and flow breccia material. Sections with 4mm varioles 359.6-363.5 3-5% py in stringers and patches with tr cpy. max 3 cm to stringers with Qtz veins/patches, possible in pillow selvedge. Mod conductor across core axis 4 cm, but very limited and poorly connected between sulpvide stringers. MVOLC flow hard H 7 down hole rare scttered po/py bleb. Up to 0.5 cm diam 372.0 pristince pillow selvedges 400.5 - 401.5 Narrow shear with 10-15% qtz veins barren.
SL-19-02	401.50	441.00	MVOLC	Mafic Volcanic- Dark green fine grained. No feldspar phenocrysts.

Flows with preserved pillow selvedges and flow breccia.
H >7

Reflex Test

BHID	Depth	Az	Declin (-13)	Dip	Mag Field	Mag Susc	Use Az	Use Dip	Comments
SL-19-02	0		330.0	-75.0			Y	Y	As spotted in field
SL-19-02	15.0	336.8	323.8	-75.3	57527	0.52	N	Y	
SL-19-02	51.0	340.9	327.9	-75.4	56381	0.33	Y	Y	
SL-19-02	102.0	341.7	328.7	-75.5	56318	0.28	Y	Y	
SL-19-02	153.0	342.9	329.9	-75.4	56669	0.33	Y	Y	
SL-19-02	201.0	343.2	330.2	-75.1	56507	0.37	Y	Y	
SL-19-02	252.0	342.8	329.8	-75.0	56265	0.44	Y	Y	
SL-19-02	309.0	345.5	332.5	-74.6	56516	0.27	Y	Y	
SL-19-02	350.0	346.3	333.3	-74.5	56458	0.46	Y	Y	
SL-19-02	402.0	346.6	333.6	-74.7	56472	2.17	Y	Y	

Magnetic Susceptibility

BHID	Depth	MS	Lith
SL-19-02	MS-2	0.10	
SL-19-02	9.5	0.36	GABxln
SL-19-02	15.0	0.52	GABxln
SL-19-02	21.0	0.36	GABxln
SL-19-02	28.0	0.28	GABpyrx
SL-19-02	43.5	0.40	GABxln
SL-19-02	50.5	0.33	GABxln
SL-19-02	58.0	0.36	GABxln
SL-19-02	69.0	0.42	GABxln
SL-19-02	77.5	0.34	GABblch
SL-19-02	88.5	0.25	GABblch
SL-19-02	95.6	0.24	GABxln
SL-19-02	108.0	0.37	GABxln
SL-19-02	114.0	0.34	GAB
SL-19-02	MS-4	24.40	
SL-19-02	122.0	0.34	MVOLC
SL-19-02	132.0	0.21	MVOLC
SL-19-02	136.0	0.36	MVOLC
SL-19-02	144.0	0.29	MVOLC
SL-19-02	154.0	0.42	MVOLC
SL-19-02	158.0	0.43	MVOLC
SL-19-02	163.0	0.37	MVOLC
SL-19-02	MS-3	1.19	
SL-19-02	171.0	0.30	MVOLC
SL-19-02	179.0	0.29	MVOLC
SL-19-02	183.0	0.39	MVOLC
SL-19-02	190.0	0.25	MVOLC
SL-19-02	197.0	0.54	GAB
SL-19-02	203.0	0.17	GAB
SL-19-02	210.0	0.45	GAB
SL-19-02	214.0	0.33	GAB
SL-19-02	220.0	0.25	GABblch
SL-19-02	MS-3	1.12	
SL-19-02	223.4	0.18	GABblch
SL-19-02	228.0	0.42	GAB
SL-19-02	235.0	0.46	GAB
SL-19-02	239.0	0.30	GAB
SL-19-02	247.5	0.59	GAB
SL-19-02	MS-1	76.80	
SL-19-02	253.0	0.33	GAB
SL-19-02	260.0	0.37	GAB
SL-19-02	268.5	0.74	MVOLC

SL-19-02	277.0	0.56	GAB
SL-19-02	286.0	0.28	GAB
SL-19-02	290.0	1.02	GAB
SL-19-02	293.0	0.99	MVOLC
SL-19-02	303.0	0.13	IDIKE
SL-19-02	307.0	0.23	GABblch
SL-19-02	312.0	0.39	IDIKE
SL-19-02	MS-2	0.10	
SL-19-02	314.0	0.32	IDIKE
SL-19-02	317.0	0.30	IDIKE
SL-19-02	320.0	0.41	GAB
SL-19-02	324.5	0.30	GABxln
SL-19-02	330.5	0.28	GABxln
SL-19-02	337.5	0.27	GABxln
SL-19-02	340.0	0.66	GABxln
SL-19-02	344.5	0.59	MVOLC
SL-19-02	MS-1	75.20	
SL-19-02	343.0	0.41	MVOLC
SL-19-02	346.0	0.35	MVOLC
SL-19-02	349.0	0.23	MVOLC
SL-19-02	354.5	0.34	MVOLC
SL-19-02	369.0	1.56	MVOLC
SL-19-02	372.5	0.43	MVOLC
SL-19-02	378.0	1.0	MVOLC
SL-19-02	388.5	3.45	MVOLC
SL-19-02	392.0	3.28	MVOLC
SL-19-02	MS-1	75.10	
SL-19-02	398.0	1.11	MVOLC
SL-19-02	401.0	1.79	MVOLC
SL-19-02	406.0	2.81	MVOLC
SL-19-02	408.0	0.50	MVOLC
SL-19-02	414.0	0.49	MVOLC
SL-19-02	417.0	1.12	MVOLC
SL-19-02	423.0	0.51	MVOLC
SL-19-02	426.0	0.39	MVOLC
SL-19-02	MS-4	22.90	
SL-19-02	438.0	0.44	MVOLC

Specific Gravity

BHID	Date	Depth	Litho	Dry 1	Dry 2	Average	Wet 1	Wet 2	Average	SG	Mag Susc
SL-19-02	September 18, 2019	20.10	GABxln	373.54	373.54	373.54	252.36	252.35	252.36	3.08	0.36
SL-19-02	September 18, 2019	Weight	60.55	60.65		30.33			0.00	1.00	
SL-19-02	September 18, 2019	SG-4	Glass	273.72	273.72	273.72	163.86	163.86	163.86	2.49	
SL-19-02	September 18, 2019	27.20	GABpyrx	461.31	461.3	461.31	310.13	310.13	310.13	3.05	0.43
SL-19-02	September 18, 2019	72.00	GABxln	337.69	337.69	337.69	228.61	228.61	228.61	3.10	0.30
SL-19-02	September 18, 2019	84.80	GABblch	500.17	500.18	500.18	322.43	322.42	322.43	2.81	0.30
SL-19-02	September 18, 2019	90.50	GABblch	253.75	253.74	253.75	164.47	164.47	164.47	2.84	0.24
SL-19-02	September 18, 2019	109.60	GABxln	542.9	542.91	542.91	360.27	360.28	360.28	2.97	0.40
SL-19-02	September 19, 2019	139.00	MVOLC	278.66	278.66	278.66	186.02	186.05	186.04	3.01	0.32
SL-19-02	September 19, 2019	163.50	MVOLC	462.17	462.12	462.15	298.58	298.57	298.58	2.83	0.40
SL-19-02	September 19, 2019	188.00	MVOLC	329.85	329.83	329.84	210.65	210.67	210.66	2.77	0.27
SL-19-02	September 19, 2019	222.00	GABblch	374.45	374.46	374.46	242.67	242.67	242.67	2.84	0.46
SL-19-02	September 19, 2019	247.00	GAB	291.27	291.27	291.27	195.20	195.24	195.22	3.03	0.46
SL-19-02	September 20, 2019	Weight	24	24.04		12.02			0.00	1.00	
SL-19-02	September 20, 2019	SG-3	Mass	80.29	80.29	80.29	62.92	62.98	62.95	4.63	
SL-19-02	September 20, 2019	276.00	GAB	414.50	414.50	414.50	279.20	279.20	279.20	3.06	0.80
SL-19-02	September 20, 2019	315.00	IDIKE	246.77	246.77	246.77	161.87	161.87	161.87	2.91	0.14
SL-19-02	September 20, 2019	328.00	GABxln	455.47	455.44	455.46	300.13	300.14	300.14	2.93	0.45
SL-19-02	September 20, 2019	339.00	GABxln	402.25	402.26	402.26	265.84	265.84	265.84	2.95	0.75
SL-19-02	September 20, 2019	349.80	MVOLC	643.10	643.09	643.10	435.96	435.95	435.96	3.10	0.43
SL-19-02	September 21, 2019	380.40	MVOLC	465.95	465.96	465.96	314.67	314.68	314.68	3.08	1.49
SL-19-02	September 21, 2019	411.20	MVOLC	312.17	312.17	312.17	213.70	213.68	213.69	3.17	0.54
SL-19-02	September 21, 2019	435.40	MVOLC	367.22	367.28	367.25	248.78	248.71	248.75	3.10	0.47
SL-19-02	September 21, 2019	Weight	150	150.25		75.13			0.00	1.00	

Core Angles

BHID	Depth	Core Angle	Foliation	Contact	Fault gouge	Comment
SL-19-02	11.00	60	Weak			Narrow Chloritic bands 10cm
SL-19-02	28.00	30	Weak			
SL-19-02	42.00	40	Weak			
SL-19-02	56.20	70		Contact		
SL-19-02	57.70	80		Contact		
SL-19-02	59.00	55	Weak			
SL-19-02	80.00	10	Weak			
SL-19-02	91.00	30	Weak			
SL-19-02	105.00	10			Fault gouge	
SL-19-02	132.00	55			Contact	
SL-19-02	152.00	10			QV 2 cm	
SL-19-02	155.00	35	Weak			
SL-19-02	192.60	45			Contact ?	
SL-19-02	222.30	80			QV w fuccsite 20 cm	
SL-19-02	299.80	25		Contact		
SL-19-02	308.30	35		Contact		
SL-19-02	320.20	20		Contact		
SL-19-02	334.5	40	Mod			
SL-19-02	340.7	40		Contact		
SL-19-02	343.0	35	Strong		Pillow Selvedge	
SL-19-02	350.0	40	Strong		Pillow Selvedge	
SL-19-02	360.5	35	Weak		Qtz Vein	
SL-19-02	365.0	30			Pillow Selvedge	
SL-19-02	372.0	45	weak		Flattened varioles	
SL-19-02	401.0	40	Mod		Narrow Shear	
SL-19-02	429.3	50			Qtz Vein	
SL-19-02	435.5	30			Pillow Selvedge	

Rock Quality Designation

BHID	From	To	Recovery	RQD	Comments
SL-19-02	9.0	12.0	3.0	2.9	
SL-19-02	12.0	15.0	3.0	2.9	
SL-19-02	15.0	18.0	3.0	2.8	
SL-19-02	18.0	21.0	2.9	2.9	
SL-19-02	21.0	24.0	3.0	2.9	
SL-19-02	24.0	27.0	3.0	2.9	
SL-19-02	27.0	30.0	3.0	2.9	
SL-19-02	30.0	33.0	2.7	1.1	
SL-19-02	33.0	36.0	3.0	2.7	
SL-19-02	36.0	39.0	3.0	3.0	
SL-19-02	39.0	42.0	2.9	2.9	
SL-19-02	42.0	45.0	3.0	3.0	
SL-19-02	45.0	48.0	3.0	2.9	
SL-19-02	48.0	51.0	3.0	3.0	
SL-19-02	51.0	54.0	3.0	2.7	
SL-19-02	54.0	57.0	3.0	2.9	
SL-19-02	57.0	60.0	2.9	2.8	
SL-19-02	60.0	63.0	3.0	2.9	
SL-19-02	63.0	66.0	3.0	2.9	
SL-19-02	66.0	69.0	3.0	2.9	
SL-19-02	69.0	72.0	3.0	2.8	
SL-19-02	72.0	75.0	3.0	2.7	
SL-19-02	75.0	78.0	3.0	2.6	
SL-19-02	78.0	81.0	3.0	2.9	
SL-19-02	81.0	84.0	2.9	2.5	
SL-19-02	84.0	87.0	2.9	2.9	
SL-19-02	87.0	90.0	2.9	2.7	
SL-19-02	90.0	93.0	3.0	2.9	
SL-19-02	93.0	96.0	2.9	3.0	
SL-19-02	96.0	99.0	3.0	2.9	
SL-19-02	99.0	102.0	2.9	2.7	
SL-19-02	102.0	105.0	2.8	2.9	
SL-19-02	105.0	108.0	2.9	3.0	
SL-19-02	108.0	111.0	3.0	2.8	
SL-19-02	111.0	114.0	3.0	2.9	
SL-19-02	114.0	117.0	3.0	2.6	
SL-19-02	117.0	120.0	2.5	2.4	
SL-19-02	120.0	123.0	3.0	2.9	
SL-19-02	123.0	126.0	3.0	2.7	
SL-19-02	126.0	129.0	3.0	2.9	
SL-19-02	129.0	132.0	3.0	3.0	
SL-19-02	132.0	135.0	3.0	2.9	

SL-19-02	135.0	138.0	3.0	2.9
SL-19-02	138.0	141.0	3.0	2.9
SL-19-02	141.0	144.0	2.8	2.1
SL-19-02	144.0	147.0	2.9	2.7
SL-19-02	147.0	150.0	3.0	3.0
SL-19-02	150.0	153.0	3.0	3.0
SL-19-02	153.0	156.0	3.0	3.0
SL-19-02	156.0	159.0	3.0	2.9
SL-19-02	159.0	162.0	3.0	3.0
SL-19-02	162.0	165.0	3.0	2.8
SL-19-02	165.0	168.0	3.0	3.0
SL-19-02	168.0	171.0	3.0	3.0
SL-19-02	171.0	174.0	3.0	3.0
SL-19-02	174.0	177.0	3.0	2.9
SL-19-02	177.0	180.0	3.0	3.0
SL-19-02	180.0	183.0	3.0	2.7
SL-19-02	183.0	186.0	3.0	2.9
SL-19-02	186.0	189.0	3.0	2.9
SL-19-02	189.0	192.0	3.0	2.9
SL-19-02	192.0	195.0	3.0	3.0
SL-19-02	195.0	198.0	3.0	3.0
SL-19-02	198.0	201.0	3.0	3.0
SL-19-02	201.0	204.0	3.0	2.8
SL-19-02	204.0	207.0	3.0	2.9
SL-19-02	207.0	210.0	3.0	3.0
SL-19-02	210.0	213.0	3.0	3.0
SL-19-02	213.0	216.0	3.0	2.9
SL-19-02	216.0	219.0	3.0	3.0
SL-19-02	219.0	222.0	3.0	2.9
SL-19-02	222.0	225.0	3.0	2.7
SL-19-02	225.0	228.0	2.9	2.8
SL-19-02	228.0	231.0	3.0	2.7
SL-19-02	231.0	234.0	3.0	2.8
SL-19-02	234.0	237.0	3.0	2.7
SL-19-02	237.0	240.0	3.0	2.9
SL-19-02	240.0	243.0	3.0	2.9
SL-19-02	243.0	246.0	3.0	2.7
SL-19-02	246.0	249.0	3.0	3.0
SL-19-02	249.0	252.0	3.0	2.9
SL-19-02	252.0	255.0	3.0	2.6
SL-19-02	255.0	258.0	2.9	2.2
SL-19-02	258.0	261.0	3.0	0.6
SL-19-02	261.0	264.0	3.0	2.6
SL-19-02	264.0	267.0	3.0	2.7
SL-19-02	267.0	270.0	3.0	2.9

SL-19-02	270.0	273.0	3.0	2.9
SL-19-02	273.0	276.0	3.0	3.0
SL-19-02	276.0	279.0	3.0	3.0
SL-19-02	279.0	282.0	3.0	3.0
SL-19-02	282.0	285.0	3.0	3.0
SL-19-02	285.0	288.0	3.0	3.0
SL-19-02	288.0	291.0	3.0	2.9
SL-19-02	291.0	294.0	3.0	2.9
SL-19-02	294.0	297.0	3.0	3.0
SL-19-02	297.0	300.0	3.0	3.0
SL-19-02	300.0	303.0	3.0	2.9
SL-19-02	303.0	306.0	3.0	2.9
SL-19-02	306.0	309.0	3.0	3.0
SL-19-02	309.0	312.0	3.0	3.0
SL-19-02	312.0	315.0	3.0	3.0
SL-19-02	315.0	318.0	3.0	3.0
SL-19-02	318.0	321.0	3.0	3.0
SL-19-02	321.0	324.0	3.0	2.9
SL-19-02	324.0	327.0	3.0	3.0
SL-19-02	327.0	330.0	3.0	3.0
SL-19-02	330.0	333.0	3.0	3.0
SL-19-02	333.0	336.0	3.0	3.0
SL-19-02	336.0	339.0	3.0	3.0
SL-19-02	339.0	342.0	3.0	2.9
SL-19-02	342.0	345.0	3.0	3.0
SL-19-02	345.0	348.0	3.0	3.0
SL-19-02	348.0	351.0	3.0	2.9
SL-19-02	351.0	354.0	2.8	2.6
SL-19-02	354.0	357.0	3.0	2.9
SL-19-02	357.0	360.0	3.0	2.7
SL-19-02	360.0	363.0	3.0	2.9
SL-19-02	363.0	366.0	3.0	3.0
SL-19-02	366.0	369.0	3.0	2.9
SL-19-02	369.0	372.0	3.0	3.0
SL-19-02	372.0	375.0	3.0	3.0
SL-19-02	375.0	378.0	3.0	2.9
SL-19-02	378.0	381.0	3.0	3.0
SL-19-02	381.0	384.0	3.0	3.0
SL-19-02	384.0	387.0	3.0	3.0
SL-19-02	387.0	390.0	3.0	2.9
SL-19-02	390.0	393.0	3.0	3.0
SL-19-02	393.0	396.0	3.0	2.9
SL-19-02	396.0	399.0	3.0	2.9
SL-19-02	399.0	402.0	3.0	2.9
SL-19-02	402.0	405.0	3.0	2.8

SL-19-02	405.0	408.0	3.0	3.0
SL-19-02	408.0	411.0	3.0	2.9
SL-19-02	411.0	414.0	3.0	2.9
SL-19-02	414.0	417.0	3.0	2.9
SL-19-02	417.0	420.0	3.0	2.7
SL-19-02	420.0	423.0	3.0	2.8
SL-19-02	423.0	426.0	3.0	2.8
SL-19-02	426.0	429.0	3.0	2.8
SL-19-02	429.0	432.0	2.9	2.9
SL-19-02	432.0	435.0	3.0	2.9
SL-19-02	435.0	438.0	2.9	2.7
SL-19-02	438.0	441.0	3.0	2.9

Samples

BHID	Sample	From	To	Width	Stand/blank	Litho	Py + Po %	Cpy %	Qtz Veins %	Ni (ppm)	Cu (ppm)	Co (ppm)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)
SL-19-02	X948515	88.0	89.0	1.0		GABalt	0.5		0.5	110	73	29	0.18	0.046	<0.005	<0.001
SL-19-02	X948516	89.0	90.0	1.0		GABalt	0.5		0.5	115	55	23	<0.01	0.001	<0.005	<0.001
SL-19-02	X948517	90.0	91.0	1.0		GABalt	0.5		0.5	116	58	44	0.08	<0.001	<0.005	<0.001
SL-19-02	X948518	91.0	92.0	1.0		GABalt	0.5		0.5	117	24	43	0.07	<0.001	<0.005	<0.001
SL-19-02	X948519	147.0	148.0	1.0		MVOLC			2	55	16	17	<0.01	0.006	<0.005	<0.001
SL-19-02	X948520	148.0	149.0	1.0		MVOLC			2	107	32	34	0.03	0.002	<0.005	<0.001
SL-19-02	X948521	152.0	153.5	1.5		MVOLC			5	75	131	35	0.11	0.008	<0.005	<0.001
SL-19-02	X948522	168.0	169.0	1.0		MVOLC			3	71	7	37	0.05	0.001	<0.005	<0.001
SL-19-02	X948523	169.0	170.5	1.5		MVOLC			3	77	38	38	0.05	<0.001	<0.005	0.001
SL-19-02	X948524	170.5	172.0	1.5		MVOLC			3	90	37	40	0.03	0.001	<0.005	<0.001
SL-19-02	X948525	172.0	173.5	1.5		MVOLC	0.5		10	106	40	33	0.01	<0.001	<0.005	<0.001
SL-19-02	X948526	173.5	175.0	1.5		MVOLC	0.5		10	88	2	34	<0.01	<0.001	<0.005	<0.001
SL-19-02	X948527	188.0	189.0	1.0		MVOLC	0.5		5	73	9	30	<0.01	<0.001	<0.005	<0.001
SL-19-02	X948528	217.0	218.5	1.5		GABalt				69	69	38	0.12	<0.001	<0.005	<0.001
SL-19-02	X948529				Blank					13	3	<1	<0.01	<0.001	<0.005	<0.001
SL-19-02	X948530	218.5	220.0	1.5		GABalt			2	59	79	38	0.1	0.001	<0.005	<0.001
SL-19-02	X948531	220.0	221.5	1.5		GABalt			5	74	225	33	0.15	<0.001	<0.005	<0.001
SL-19-02	X948532	221.5	222.5	1.0		GABalt			10	167	82	58	0.33	<0.001	<0.005	<0.001
SL-19-02	X948533	222.5	223.7	1.2		GABalt			2	115	98	49	0.13	<0.001	<0.005	<0.001
SL-19-02	X948534	223.7	225.0	1.3		GAB				88	36	41	0.04	<0.001	<0.005	<0.001
SL-19-02	X948535				13b					2190	2300	44	1.14	0.212	0.194	0.129
SL-19-02	X948536	225.0	226.0	1.0		GAB			1	76	98	37	0.14	<0.001	<0.005	0.001
SL-19-02	X948537	226.0	227.0	1.0		GAB			60 cm QV	31	406	24	0.32	0.002	<0.005	0.001
SL-19-02	X948538	227.0	228.0	1.0		GAB			1	38	15	19	0.01	<0.001	<0.005	0.001
SL-19-02	X948539	358.0	359.5	1.5		MVOLC				71	244	76	1	0.002	<0.005	0.001
SL-19-02	X948540	359.5	360.4	0.9		MVOLC	3			101	1175	131	2.19	0.006	<0.005	0.001
SL-19-02	X948541	360.4	361.5	1.1		MVOLC	5		15cm QV	132	5590	186	3.6	0.016	<0.005	0.001
SL-19-02	X948542				Blank					<1	14	1	0.01	0.002	<0.005	<0.001
SL-19-02	X948543	361.5	362.5	1.0		MVOLC	3	1		123	884	153	2.67	0.018	<0.005	0.001
SL-19-02	X948544	362.5	363.5	1.0		MVOLC	1			64	413	51	0.9	0.001	<0.005	0.001
SL-19-02	X948545	363.5	364.5	1.0		MVOLC				86	362	44	0.99	0.002	<0.005	0.001
SL-19-02	X948546	429.3	429.8	0.5		MVOLC			White Vein	2	4	1	<0.01	0.021	<0.005	0.001
SL-19-02	X948547	340.5	341.5	1.0		MVOLC			25	88	115	34	0.27	0.006	<0.005	0.001

MIC-19-03

Drill Hole Summary

DDH ID	**SL-19-03**							
	Cell Mining Claim #	**(Nad 83) Zone**	**East (UTM)**	**North (UTM)**	**Elev**	**Az**	**Dip**	**EOH (m)**
Location	237155	17U	603963	5469306	287.96	330	-60	477.00

Purpose	Test Airborne EM anomaly coincident with strike extent of St. Laurent Sulphide Mineralization		
Explanation	Wide section of sulphide mineralization with numerous stringers and semi massive sulphide veins strong conductive over 25 cm lengths		
Start date	September 21, 2019		
End date	September 25, 2019		
Drill Contractor	NPLH Drilling		
Core Size	NQ		
Core Storage	Doug Bryant Shop on Airport Road, Timmins - 17U 472500/5378900		
Casing	Casing left in ground	**Capping**	Metal Cap with Metal Flag
Artesian Y/N	N		
Water Source	Small creek within 350m of drill - 17U 603519/5469269, Casing for SL-19-02 used when creek flow slowed.		
Logged By	Todd Keast		
Log Completed	September 26, 2019	Assays Added	October 23, 2019
Comments	Drill camp at gravel pit on Tomlinson Road 17U 576330/5467800		
Comments	Chopper landing pad - 17U 603431/5469387		
Comments	Borehole EM survey completed		

Lithologies

BHID	From	To	Litho	Comment
SL-19-03	0	6.00	CAS	CASING-Overburden
SL-19-03	6.00	29.00	GABtalc	Gabbro talc intrusion - Blue grey weakly foliated. Distinct talc greasy feel to core. Weakly foliated, locally massive sections. H<<<7 very easy to scratch 1% fine dissem po.
SL-19-03	29.00	73.00	GAB	Gabbro - Green massive. Sharp upper contact. Fine grained H>7. 29.8-30.3 IDIKE Local intervals of distinct fine grained gabbroic texture, fine feldspar. 36.3 5cm QV with 1mm cpy stringers. 39.7 1 cm patch of cpy dissem 49.4-52.0 fine grained section 51.2 1cm QV with 5% py 52.0-53.5 Mafic volcanic Xenolith? 57.0-59.4 3-15 cm rounded MV xenoliths with distinct light colored haloes. Xenoliths? Down unit massive fine grained variable to medium grained distinct gabbroic texture.
SL-19-03	73.00	76.00	FAULT	Fault Zone - Distinct strong foliation with 3-5% py cubes and 25% qtz veins and vein breccia. tr fuchsite.
SL-19-03	76.00	93.50	GABtalc	Gabbro talc intrusion - Blue grey weakly foliated. Distinct talc greasy feel to core. Weakly foliated, locally massive sections. Upper 2 metres are hard, gradational change down to softer talcy feel to core. H<<<7 very easy to scratch 1% fine dissem po. 85.5 - 86.5 slight local increase in py po content 1-2% fine grained. 88.0-89.0 Strong foliation with 2 10 cm wide QV 3-5% py.
SL-19-03	93.50	125.60	GAB	Gabbro - Fine grained massive non discipt. Very fine feldspar in matrix. H>7 rare grain po py. 111.0 1 mm green spot pyroxene/amphibole? Not chlorite. 116.5-117.5 Siliceous 3-5% py with 5% narrow white qt veins. 117.5-118.6 Massive weak bleached 118.6-118.7 White qtz vein with green fuchsite along margins.
SL-19-03	125.60	135.60	GAB	Gabbro - Dark green massive with 1mm rounded pyroxene spots. H>7 122.9-124.0 Siliceous section 1-3% py tr fuchsite.

SL-19-03	135.60	137.20	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts euhedral. Sharp upper and lower contacts
SL-19-03	137.20	172.40	GAB	Gabbro - Dark green massive with 1mm rounded pyroxene spots. Variable texture H>7 159.0-160.5 BBC 161.0-162.0 Narrow section strong foliation 50 deg to CA
SL-19-03	172.40	176.60	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm.
SL-19-03	176.60	178.80	GAB	Gabbro - Dark green massive with 1mm rounded pyroxene spots.
SL-19-03	178.80	185.40	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm. Broken blocky core fault from 184.0 -185.4
SL-19-03	185.40	218.00	GAB	Gabbro - Dark green massive with 1mm rounded pyroxene spots. Varible texture intrusive brecccia? 185.4-187.5 Moderate foliation broken blocky core
SL-19-03	218.00	220.70	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm.
SL-19-03	220.70	232.80	GAB	Gabbro- Fine grained massive homogeneous. H>7
SL-19-03	232.80	235.60	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm.
SL-19-03	235.60	246.60	GAB	Gabbro- Fine grained massive homogeneous. H>7
SL-19-03	246.60	251.00	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm.
SL-19-03	251.00	269.30	GAB	Gabbro- Fine grained massive homogeneous. H>7 251.5-253.0 soft rounded xenoliths up to 10 cm in size, soft margins, melting. 258.6 2mm cpy/po stringers in dark chloritic material. Mafic Volcanics?
SL-19-03	269.30	272.90	MVOLC	Mafic Volcanic - Dark green fine grained pillowed and flow breccia. Distinct variolitic sections and pillow selvedges. Abrupt upper contact, not sharp Possible large xenolith raft? H>7
SL-19-03	272.90	288.10	GAB	Gabbro - Dark green fine grained massive. Contacts poorly defined 279.3-279.6 MV xenolith of variloitc flow. Massive H>7

SL-19-03	288.10	327.30	MVOLC	Mafic Volcanic - Dark green fine grained pillowed and flow breccia. Distinct variolitic sections and pillow selvedges. Abrupt upper contact, possible large xenolith raft? H>7 314.3-318.5 Local bleached flow with sharp upper and lower contacts. 1-3% dissem py. Rare widely spaced 1 cm long 2mm wide disontinuous stringer Cpy
SL-19-03	327.30	384.00	GABmin	Gabbro mineralized - Dark green, variable textured, local lighter patchy intervals, brecciated appearance, intrusive breccia? Local dark green irregular shaped patches up to 15 cm possible Mafic volcanic xenoliths. Fine po stringers and disseminations with tr cpy typically associated with dark green pyroxene rich material 327.3-334.0 1-3% po,tr cpy, locally 5% po in 8mm stringers. 334.0 - 334.5 10-15% po well connected sulphides conductive over 40 cm along core axis. 334.5-336.4 tr po, variolitic flow 336.4 336.7 net texture section of po tr cpy. Strong conductor along length core. 336.7-341.0 1-3% po in narrow stringers and disseminations. Gabbro breccia texture with local Mafic volcanic xenoliths. 341.0-344.0 Bleached MVOLC xenolith tr py 344-345.10 Gabbro breccia with 10% po 345.1 - 346.5 bleached MV flow 1% py 346.5 - 347.3 Gabbro Breccia 10% po 347.3 - 349.9 Fine grained bleached mafic flow 349.9 - 352.7 Fine grained Fine grained massive flow 1-3% py 352.7 - 359.8 Gabbro Breccia 5% po py. 359.8 - 360.9 Massive mafic flow More consistent Gabbro Breccia material with darker green pyroxene and pyrrhotite begins 360.9 - 372.0 Gabbro Breccia 10% po and py stingers and dissem 372.0-374.5 Bleached mafic flow material local epidote rich sections with 1 cm clots of cpy. 374.5-380.5 Gabbro Breccia with 5-10% po and py stringers and dissem.

				380.5-381.5 Bleached mafic volcanic flow with 1% py. 381.5-384.0 Gabbro breccia with 5% po and py
SL-19-03	384.00	394.70	MVOLCblch	Mafic Volcanic bleached - Light grey buff, silicified mafic flow with variolitic flow and flow breccia. Unit is hard silicified H>7. Fine disseminated py throughout 7-10% locally 15% tr cpy. Massive, not foliation fabric. 390.9-391.0 10cm white qtz vein 393.0-393.4 Dark grey mottled quartz vein with 5-10% fine py in dissem py and hairline stringers. Late white vein set crosscutting the grey vein.
SL-19-03	394.70	432.90	GABmin	Gabbro mineralized - Dark green, variable textured, local lighter patchy intervals, brecciated appearance, intrusive breccia? Local dark green irregular shaped patches up to 15 cm possible Mafic volcanic xenoliths. Fine po stringers and disseminations with tr cpy typically associated with dark green pyroxene rich material at 401.00 po content increase, blebs and stringers of cpy. 401.0 -404.6 10-15% po py 404.6-406.1 Massive Mafic volcanic xenolith 406.1-410.0 15% po py 410.0 -410.4 80% grey qtz veins 3% py 410.4- 431.6 Gabbro breccia with 7-10% po py tr-1% cpy. 431.6-432.1 IDIKE
SL-19-03	432.90	437.30	IDIKE	Intermediate Dike - Green -grey fine grained with 15-20% feldspar phenocrysts,euhedral up 5mm.
SL-19-03	437.30	441.40	GABmin	Gabbro mineralized - Dark green, variable textured, local lighter patchy intervals, brecciated appearance, intrusive breccia? Fine po stringers and disseminations with tr cpy typicaly associated with dark green pyroxene rich material
SL-19-03	441.40	446.40	MVOLC	Mafic Volcanic - Dark green fine grained massive mafic flow. Sharp upper contact @446 fine banding possible flow margin
SL-19-03	446.40	456.00	GAB	Gabbro - Dark green fine grained massive, non foliated.
SL-19-03	456.00	459.30	FAULT	Fault - Local narrow shear within the gabbro. Gradual increase in strain, chlorite carb schist with 10% qtz veins Hardness<7
SL-19-03	459.30	477.00	GAB	Gabbro - dark green fine to medium grained. Distinct gabbroic texture, Local sections with 1-2mm black pyroxene spots 1-3mm.

Reflex Test

BHID	Depth	Az	Declin (-13)	Dip	Mag Field	Mag Susc	Use Az	Use Dip	Comments
SL-19-03	0		330.0	-60.0			Y	Y	As spotted in field
SL-19-03	12.0	343.5	330.5	-60.6	56994	0.44	Y	Y	
SL-19-03	51.0	346.5	333.5	-60.7	56008	0.70	Y	Y	
SL-19-03	105.0	347.8	334.8	-60.5	56328	0.56	Y	Y	
SL-19-03	156.0	348.3	335.3	-60.4	56261	0.47	Y	Y	
SL-19-03	201.0	349.3	336.3	-60.4	55886	0.49	Y	Y	
SL-19-03	252.0	350.0	337.0	-60.3	55860	0.24	Y	Y	
SL-19-03	300.0	351.9	338.9	-60.1	55749	1.98	Y	Y	
SL-19-03	366.0	349.6	336.6	-59.9	56493	8.27	N	Y	
SL-19-03	402.0	353.4	340.4	-60.1	55915	4.78	Y	Y	
SL-19-03	453.0	353.5	340.5	-60.0	56144.0	0.44	Y	Y	
SL-19-03	477.0	353.4	340.4	-59.7	56173.0	0.25	Y	Y	

Magnetic Susceptibility:

BHID	Depth	MS	Lith
SL-19-03	MS-2	0.04	
SL-19-03	7.5	0.44	GABtalc
SL-19-03	10.8	0.42	GABtalc
SL-19-03	12.0	0.44	GABtalc
SL-19-03	16.0	0.35	GABtalc
SL-19-03	19.0	0.48	GABtalc
SL-19-03	25.0	0.39	GABtalc
SL-19-03	27.5	0.38	GABtalc
SL-19-03	28.5	0.36	GABtalc
SL-19-03	MS-3	1.10	
SL-19-03	29.5	0.23	GAB
SL-19-03	32.0	0.46	GAB
SL-19-03	35.0	0.80	GAB
SL-19-03	37.5	0.53	GAB
SL-19-03	40.5	0.52	GAB
SL-19-03	43.0	0.51	GAB
SL-19-03	47.5	0.55	GAB
SL-19-03	52.0	0.59	GAB
SL-19-03	53.0	0.62	GAB
SL-19-03	56.0	0.66	GAB
SL-19-03	57.0	0.37	GAB
SL-19-03	MS-1	7.70	
SL-19-03	58.5	0.66	GAB
SL-19-03	59.0	0.79	GAB
SL-19-03	60.0	0.64	GAB
SL-19-03	63.0	1.14	GAB
SL-19-03	64.5	2.35	GAB
SL-19-03	66.0	0.46	GAB
SL-19-03	69.0	0.34	GAB
SL-19-03	72.0	0.26	GAB
SL-19-03	74.0	0.38	FAULT
SL-19-03	MS-2	0.05	
SL-19-03	77.5	0.23	GABtalc
SL-19-03	81.5	0.39	GABtalc
SL-19-03	83.0	0.30	GABtalc
SL-19-03	86.0	0.40	GABtalc
SL-19-03	90.0	0.39	GABtalc
SL-19-03	94.0	0.37	GAB
SL-19-03	97.0	1.90	GAB
SL-19-03	101.5	0.43	GAB
SL-19-03	104.0	0.54	GAB
SL-19-03	MS-3	1.13	

SL-19-03	108.0	0.43	GAB
SL-19-03	111.0	1.99	GAB
SL-19-03	115.0	0.33	GAB
SL-19-03	118.0	0.35	GAB
SL-19-03	123.0	0.36	GAB
SL-19-03	127.0	0.52	GAB
SL-19-03	132.0	1.56	GAB
SL-19-03	136.0	0.31	IDIKE
SL-19-03	137.0	0.18	IDIKE
SL-19-03	139.0	0.64	GAB
SL-19-03	MS-3	1.10	
SL-19-03	142.0	0.44	GAB
SL-19-03	146.5	0.48	GAB
SL-19-03	149.0	0.43	GAB
SL-19-03	152.0	0.40	GAB
SL-19-03	153.0	0.53	GAB
SL-19-03	156.0	0.53	GAB
SL-19-03	160.5	0.45	GAB
SL-19-03	162.5	0.27	GAB
SL-19-03	165.0	0.47	GAB
SL-19-03	169.0	0.41	GAB
SL-19-03	172.0	0.59	GAB
SL-19-03	176.0	0.27	IDIKE
SL-19-03	182.0	0.14	IDIKE
SL-19-03	184.5	0.09	IDIKE
SL-19-03	188.0	0.35	GAB
SL-19-03	190.0	0.54	GAB
SL-19-03	193.0	0.41	GAB
SL-19-03	196.0	0.38	GAB
SL-19-03	198.5	0.38	GAB
SL-19-03	201.0	0.53	GAB
SL-19-03	205.4	0.55	GAB
SL-19-03	209.0	0.50	GAB
SL-19-03	213.0	0.48	GAB
SL-19-03	217.0	0.36	GAB
SL-19-03	220.7	0.42	GAB
SL-19-03	223.0	0.52	GAB
SL-19-03	230.0	0.44	GAB
SL-19-03	MS-3	1.15	
SL-19-03	239.0	0.48	GAB
SL-19-03	243.0	0.43	GAB
SL-19-03	246.0	0.33	GAB
SL-19-03	247.0	0.14	IDIKE
SL-19-03	250.0	0.24	IDIKE
SL-19-03	251.5	0.45	GAB

SL-19-03	256.0	0.52	GAB
SL-19-03	259.0	0.44	GAB
SL-19-03	MS-2	0.04	
SL-19-03	264.0	0.47	GAB
SL-19-03	269.0	0.43	GAB
SL-19-03	271.5	0.65	MVOLC
SL-19-03	276.0	0.44	GAB
SL-19-03	284.0	0.42	GAB
SL-19-03	290.0	0.47	MVOLC
SL-19-03	291.0	0.47	MVOLC
SL-19-03	297.0	0.55	MVOLC
SL-19-03	301.0	0.73	MVOLC
SL-19-03	305.0	0.39	MVOLC
SL-19-03	MS-2	1.13	
SL-19-03	310.0	0.56	MVOLC
SL-19-03	314.0	0.45	MVOLC
SL-19-03	315.5	0.30	MVOLC
SL-19-03	317.0	0.43	MVOLC
SL-19-03	320.0	0.46	MVOLC
SL-19-03	324.0	1.03	MVOLC
SL-19-03	327.0	1.06	MVOLC
SL-19-03	330.0	4.11	GABmin
SL-19-03	334.0	7.34	GABmin
SL-19-03	MS-1	74.90	
SL-19-03	337.0	2.53	GABmin
SL-19-03	340.0	11.70	GABmin
SL-19-03	344.0	3.62	GABmin
SL-19-03	348.5	2.02	GABmin
SL-19-03	354.0	2.33	GABmin
SL-19-03	357.0	2.60	GABmin
SL-19-03	MS-2	0.09	
SL-19-03	360.0	0.36	GABmin
SL-19-03	363.0	6.44	GABmin
SL-19-03	365.5	3.20	GABmin
SL-19-03	368.0	0.83	GABmin
SL-19-03	372.0	0.79	GABmin
SL-19-03	375.5	2.82	GABmin
SL-19-03	379.0	8.41	GABmin
SL-19-03	381.0	0.38	GABmin
SL-19-03	384.5	0.49	MVOLCblch
SL-19-03	MS-3	1.12	
SL-19-03	387.0	2.51	MVOLCblch
SL-19-03	390.0	3.23	MVOLCblch
SL-19-03	392.5	0.88	MVOLCblch
SL-19-03	393.5	0.68	MVOLCblch

SL-19-03	394.5	0.32	MVOLCblch
SL-19-03	395.5	1.11	GABmin
SL-19-03	399.0	2.50	GABmin
SL-19-03	402.0	10.00	GABmin
SL-19-03	405.0	5.87	GABmin
SL-19-03	407.5	2.83	GABmin
SL-19-03	410.5	1.48	GABmin
SL-19-03	413.0	3.47	GABmin
SL-19-03	MS-3	1.15	
SL-19-03	416.0	1.24	GABmin
SL-19-03	418.0	2.44	GABmin
SL-19-03	421.0	49.20	GABmin
SL-19-03	423.5	7.87	GABmin
SL-19-03	426.0	11.50	GABmin
SL-19-03	427.5	34.10	GABmin
SL-19-03	432.7	4.25	GABmin
SL-19-03	433.2	0.11	IDIKE
SL-19-03	434.0	0.24	IDIKE
SL-19-03	437.0	0.34	IDIKE
SL-19-03	438.0	15.60	GABmin
SL-19-03	440.5	2.39	GABmin
SL-19-03	441.0	7.69	GABmin
SL-19-03	442.0	0.60	MVOLC
SL-19-03	445.0	0.50	MVOLC
SL-19-03	448.0	0.50	GAB
SL-19-03	449.0	2.54	GAB
SL-19-03	452.0	0.47	GAB
SL-19-03	455.0	0.38	GAB
SL-19-03	457.0	0.41	FAULT
SL-19-03	458.0	0.38	FAULT
SL-19-03	461.0	0.30	GAB
SL-19-03	465.0	0.34	GAB
SL-19-03	468.0	0.45	GAB
SL-19-03	471.0	0.34	GAB
SL-19-03	475.0	0.33	GAB

Specific Gravity

BHID	Date	Depth	Litho	Dry 1	Dry 2	Average	Wet 1	Wet 2	Average	SG	Mag Susc
SL-19-03	September 22, 2019	Weight	0.8	0.83							
SL-19-03	September 22, 2019	SG-2	Core	631.40	631.41	631.41	429.84	429.82	429.83	3.13	
SL-19-03	September 22, 2019	11.90	GABtalc	477.50	477.50	477.50	310.93	310.9	310.92	2.87	0.40
SL-19-03	September 22, 2019	21.60	GABtalc	473.71	473.72	473.72	309.27	309.26	309.27	2.88	0.41
SL-19-03	September 22, 2019	34.00	GAB	385.57	385.59	385.58	260.76	260.76	260.76	3.09	0.63
SL-19-03	September 22, 2019	52.80	GAB	479.29	479.25	479.27	327.65	327.65	327.65	3.16	0.63
SL-19-03	September 22, 2019	63.00	GAB	414.69	414.68	414.69	281.46	281.49	281.48	3.11	2.27
SL-19-03	September 22, 2019	81.00	GABtalc	419.44	419.45	419.45	266.2	266.21	266.21	2.74	0.21
SL-19-03	September 22, 2019	94.00	GAB	450.05	450.06	450.06	292.53	292.54	292.54	2.86	0.33
SL-19-03	September 23, 2019	Weight	20	20.03							
SL-19-03	September 23, 2019	SG-1	Jasper	367.09	367.09	367.09	232.33	233.43	232.88	2.74	
SL-19-03	September 23, 2019	121.70	GAB	362.52	362.53	362.53	235.58	235.64	235.61	2.86	0.30
SL-19-03	September 23, 2019	151.70	GAB	297.97	297.97	297.97	200.25	200.25	200.25	3.05	
SL-19-03	September 23, 2019	172.00	GAB	372.27	372.28	372.28	250.50	250.42	250.46	3.06	0.43
SL-19-03	September 23, 2019	202.50	GAB	525.82	525.85	525.84	353.57	353.52	353.55	3.05	0.39
SL-19-03	September 23, 2019	231.40	GAB	469.63	469.62	469.63	315.32	315.29	315.31	3.04	0.48
SL-19-03	September 24, 2019	261.00	GAB	308.72	308.72	308.72	206.43	206.45	206.44	3.02	0.38
SL-19-03	September 24, 2019	Weight	102	102.17							
SL-19-03	September 24, 2019	SG-3	Sulphide	80.29	80.30	80.30	62.88	62.91	62.90	4.61	
SL-19-03	September 24, 2019	285.50	MVOLC	459.62	459.62	459.62	309.55	309.55	309.55	3.06	0.40
SL-19-03	September 24, 2019	301.20	MVOLC	330.08	330.09	330.09	228.61	228.61	228.61	3.25	0.73
SL-19-03	September 24, 2019	320.50	MVOLC	518.65	518.65	518.65	349.06	349.06	349.06	3.06	0.52
SL-19-03	September 24, 2019	331.30	GABmin	540.66	540.65	540.66	368.50	368.50	368.50	3.14	9.59
SL-19-03	September 24, 2019	336.50	GABmin	529.7	529.7	529.70	381.24	381.24	381.24	3.57	64.2
SL-19-03	September 24, 2019	339.00	GABmin	446.87	446.87	446.87	297.53	297.54	297.54	2.99	4.83
SL-19-03	September 25, 2019	Weight	100.2	100.37							
SL-19-03	September 25, 2019	SG-4	Glass	273.73	273.73	273.73	163.86	163.86	163.86	2.49	
SL-19-03	September 25, 2019	362.60	GABmin	411.63	411.63	411.63	279.04	279.04	279.04	3.10	2.21
SL-19-03	September 25, 2019	377.80	GABmin	423.66	423.67	423.67	296.02	296.02	296.02	3.32	9.17
SL-19-03	September 25, 2019	386.20	MVOLCblch	476.45	476.45	476.45	316.46	316.45	316.46	2.98	3.88
SL-19-03	September 25, 2019	402.00	GABmin	591	591	591.00	409.23	409.25	409.24	3.25	17.3
SL-19-03	September 25, 2019	419.50	GABmin	755.98	755.99	755.99	536.97	537.07	537.02	3.45	13.5
SL-19-03	September 26, 2019	Weight	55.00	55.09							
SL-19-03	September 26, 2019	429.70	GABmin	410.29	410.29	410.29	289.43	289.43	289.43	3.39	45.3
SL-19-03	September 26, 2019	440.50	GABmin	422.80	422.80	422.80	286.56	286.51	286.54	3.10	6.44
SL-19-03	September 26, 2019	455.40	GAB	513.74	513.75	513.75	339.30	339.29	339.30	2.94	0.39
SL-19-03	September 26, 2019	462.60	GAB	287.95	287.96	287.96	185.90	185.89	185.90	2.82	0.22
SL-19-03	September 26, 2019	470.00	GAB	340.45	340.46	340.46	229.12	229.08	229.10	3.06	0.39

Core Angles

BHID	Depth	Core Angle	Foliation	Contact	Fault gouge	Comment
SL-19-03	7.50	30	Weak			
SL-19-03	14.50	40	Weak			
SL-19-03	22.00	20	Weak			
SL-19-03	25.00	10			Fault gouge	
SL-19-03	29.00	25		Contact	Sharp	
SL-19-03	52.00	40		Contact		
SL-19-03	53.00	60				Pillow Selvedge
SL-19-03	74.50	25	Strong			1 m wide shear
SL-19-03	111.00	50	Weak			
SL-19-03	116.70	75				Qtz Vn
SL-19-03	120.00	50	Weak			
SL-19-03	153.00	45	Weak			
SL-19-03	161.50	35	Mod			
SL-19-03	186.00	25	Mod			
SL-19-03	246.60	60				Contact
SL-19-03	269.30	45				Contact
SL-19-03	270.00	60				Pillow Selvedges
SL-19-03	293.00	30				Pillow Selvedges
SL-19-03	303.00	25				Flows
SL-19-03	307.00	20				Variolitic flow margin
SL-19-03	318.50	70				Contact
SL-19-03	329.00	15				Sulphide stringers
SL-19-03	330.00	50	Weak			
SL-19-03	347.00	30	Weak			Sulphide stringers
SL-19-03	352.70	30				Contact
SL-19-03	354.50	30	Weak			Sulphide stringers
SL-19-03	360.90	30	Weak			Sulphide stringers
SL-19-03	365.40	35	Mod			Sulphide stringers
SL-19-03	397.20	30	Mod			Sulphide stringers
SL-19-03	402.00	35	Mod			Sulphide stringers
SL-19-03	430.40	30				Sulphide stringers
SL-19-03	437.30	70		Sharp		
SL-19-03	439.00	35	Weak			Sulphide Stringers
SL-19-03	444.50	50	Weak			
SL-19-03	455.00	35	Weak			
SL-19-03	456.70	80	Strong			Narrow Shear
SL-19-03	457.70	70	Strong			Narrow Shear
SL-19-03	475.00	50	Mod			

Rock Quality Designation

BHID	From	To	Recovery	RQD	Comments
SL-19-03	6.0	9.0	3.0	2.9	
SL-19-03	9.0	12.0	3.0	2.9	
SL-19-03	12.0	15.0	3.0	2.9	
SL-19-03	15.0	18.0	3.0	2.9	
SL-19-03	18.0	21.0	3.0	3.0	
SL-19-03	21.0	24.0	2.9	2.8	
SL-19-03	24.0	27.0	2.9	2.7	
SL-19-03	27.0	30.0	3.0	2.9	
SL-19-03	30.0	33.0	3.0	2.9	
SL-19-03	33.0	36.0	3.0	2.8	
SL-19-03	36.0	39.0	2.8	2.8	
SL-19-03	39.0	42.0	3.0	2.9	
SL-19-03	42.0	45.0	3.0	2.7	
SL-19-03	45.0	48.0	3.0	2.8	
SL-19-03	48.0	51.0	3.0	2.9	
SL-19-03	51.0	54.0	3.0	3.0	
SL-19-03	54.0	57.0	3.0	3.0	
SL-19-03	57.0	60.0	3.0	3.0	
SL-19-03	60.0	63.0	3.0	3.0	
SL-19-03	63.0	66.0	3.0	3.0	
SL-19-03	66.0	69.0	3.0	3.0	
SL-19-03	69.0	72.0	3.0	2.9	
SL-19-03	72.0	75.0	2.9	2.6	
SL-19-03	75.0	78.0	3.0	2.9	
SL-19-03	78.0	81.0	3.0	3.0	
SL-19-03	81.0	84.0	3.0	3.0	
SL-19-03	84.0	87.0	3.0	2.8	
SL-19-03	87.0	90.0	2.9	2.6	
SL-19-03	90.0	93.0	3.0	2.9	
SL-19-03	93.0	96.0	3.0	3.0	
SL-19-03	96.0	99.0	3.0	3.0	
SL-19-03	99.0	102.0	3.0	2.9	
SL-19-03	102.0	105.0	3.0	3.0	
SL-19-03	105.0	108.0	3.0	2.9	
SL-19-03	108.0	111.0	3.0	3.0	
SL-19-03	111.0	114.0	3.0	3.0	
SL-19-03	114.0	117.0	3.0	3.0	
SL-19-03	117.0	120.0	3.0	2.9	
SL-19-03	120.0	123.0	3.0	3.0	
SL-19-03	123.0	126.0	3.0	2.9	
SL-19-03	126.0	129.0	3.0	2.6	
SL-19-03	129.0	132.0	2.9	2.4	

SL-19-03	132.0	135.0	3.0	2.9
SL-19-03	135.0	138.0	3.0	2.8
SL-19-03	138.0	141.0	3.0	2.9
SL-19-03	141.0	144.0	3.0	2.9
SL-19-03	144.0	147.0	3.0	2.9
SL-19-03	147.0	150.0	3.0	3.0
SL-19-03	150.0	153.0	3.0	2.8
SL-19-03	153.0	156.0	3.0	2.9
SL-19-03	156.0	159.0	3.0	2.1
SL-19-03	159.0	162.0	2.9	1.9
SL-19-03	162.0	165.0	3.0	2.5
SL-19-03	165.0	168.0	3.0	2.6
SL-19-03	168.0	171.0	3.0	2.8
SL-19-03	171.0	174.0	3.0	2.9
SL-19-03	174.0	177.0	3.0	2.8
SL-19-03	177.0	180.0	3.0	2.8
SL-19-03	180.0	183.0	3.0	2.9
SL-19-03	183.0	186.0	2.8	1.5
SL-19-03	186.0	189.0	3.0	2.1
SL-19-03	189.0	192.0	3.0	2.3
SL-19-03	192.0	195.0	3.0	2.7
SL-19-03	195.0	198.0	3.0	2.6
SL-19-03	198.0	201.0	3.0	3.0
SL-19-03	201.0	204.0	3.0	3.0
SL-19-03	204.0	207.0	3.0	3.0
SL-19-03	207.0	210.0	3.0	2.9
SL-19-03	210.0	213.0	3.0	3.0
SL-19-03	213.0	216.0	3.0	3.0
SL-19-03	216.0	219.0	3.0	3.0
SL-19-03	219.0	222.0	3.0	3.0
SL-19-03	222.0	225.0	3.0	2.8
SL-19-03	225.0	228.0	3.0	2.8
SL-19-03	228.0	231.0	3.0	2.8
SL-19-03	231.0	234.0	3.0	2,8
SL-19-03	234.0	237.0	3.0	2.9
SL-19-03	237.0	240.0	3.0	2.8
SL-19-03	240.0	243.0	3.0	2.9
SL-19-03	243.0	246.0	3.0	2.9
SL-19-03	246.0	249.0	3.0	3.0
SL-19-03	249.0	252.0	3.0	3.0
SL-19-03	252.0	255.0	3.0	2.8
SL-19-03	255.0	258.0	3.0	2.9
SL-19-03	258.0	261.0	3.0	2.9
SL-19-03	261.0	264.0	3.0	2.9
SL-19-03	264.0	267.0	2.9	2.7

SL-19-03	267.0	270.0	3.0	2.9
SL-19-03	270.0	273.0	3.0	2.8
SL-19-03	273.0	276.0	3.0	2.9
SL-19-03	276.0	279.0	3.0	3.0
SL-19-03	279.0	282.0	3.0	2.9
SL-19-03	282.0	285.0	3.0	2.9
SL-19-03	285.0	288.0	3.0	2.9
SL-19-03	288.0	291.0	3.0	2.9
SL-19-03	291.0	294.0	3.0	3.0
SL-19-03	294.0	297.0	3.0	2.9
SL-19-03	297.0	300.0	3.0	2.8
SL-19-03	300.0	303.0	3.0	3.0
SL-19-03	303.0	306.0	3.0	2.8
SL-19-03	306.0	309.0	3.0	2.9
SL-19-03	309.0	312.0	3.0	3.0
SL-19-03	312.0	315.0	3.0	3.0
SL-19-03	315.0	318.0	3.0	3.0
SL-19-03	318.0	321.0	3.0	2.8
SL-19-03	321.0	324.0	3.0	3.0
SL-19-03	324.0	327.0	3.0	2.9
SL-19-03	327.0	330.0	3.0	3.0
SL-19-03	330.0	333.0	3.0	3.0
SL-19-03	333.0	336.0	2.8	2.7
SL-19-03	336.0	339.0	3.0	2.9
SL-19-03	339.0	342.0	3.0	2.9
SL-19-03	342.0	345.0	3.0	2.7
SL-19-03	345.0	348.0	3.0	2.7
SL-19-03	348.0	351.0	2.9	2.4
SL-19-03	351.0	354.0	3.0	2.8
SL-19-03	354.0	357.0	2.9	2.3
SL-19-03	357.0	360.0	3.0	2.8
SL-19-03	360.0	363.0	3.0	2.8
SL-19-03	363.0	366.0	3.0	2.9
SL-19-03	366.0	369.0	3.0	2.8
SL-19-03	369.0	372.0	3.0	2.8
SL-19-03	372.0	375.0	3.0	2.9
SL-19-03	375.0	378.0	3.0	2.9
SL-19-03	378.0	381.0	3.0	2.9
SL-19-03	381.0	384.0	3.0	3.0
SL-19-03	384.0	387.0	3.0	2.9
SL-19-03	387.0	390.0	3.0	3.0
SL-19-03	390.0	393.0	3.0	2.9
SL-19-03	393.0	396.0	3.0	2.6
SL-19-03	396.0	399.0	3.0	2.9
SL-19-03	399.0	402.0	3.0	3.0

SL-19-03	402.0	405.0	3.0	3.0
SL-19-03	405.0	408.0	3.0	3.0
SL-19-03	408.0	411.0	3.0	2.9
SL-19-03	411.0	414.0	3.0	3.0
SL-19-03	414.0	417.0	3.0	3.0
SL-19-03	417.0	420.0	3.0	2.9
SL-19-03	420.0	423.0	3.0	3.0
SL-19-03	423.0	426.0	3.0	3.0
SL-19-03	426.0	429.0	3.0	3.0
SL-19-03	429.0	432.0	3.0	3.0
SL-19-03	432.0	435.0	3.0	2.9
SL-19-03	435.0	438.0	3.0	2.9
SL-19-03	438.0	441.0	3.0	2.9
SL-19-03	441.0	444.0	3.0	2.8
SL-19-03	444.0	447.0	3.0	2.8
SL-19-03	447.0	450.0	3.0	3.0
SL-19-03	450.0	453.0	3.0	2.9
SL-19-03	453.0	456.0	3.0	3.0
SL-19-03	456.0	459.0	3.0	2.5
SL-19-03	459.0	462.0	3.0	2.9
SL-19-03	462.0	465.0	3.0	3.0
SL-19-03	465.0	468.0	3.0	3.0
SL-19-03	468.0	471.0	3.0	3.0
SL-19-03	471.0	474.0	3.0	3.0
SL-19-03	474.0	477.0	3.0	3.0

Conductivity

BHID	Depth	Width
SL-19-03	327.5	1
SL-19-03	328.1	10
SL-19-03	328.7	3
SL-19-03	329.6	2
SL-19-03	329.9	2
SL-19-03	330.5	1
SL-19-03	331	2
SL-19-03	334	10
SL-19-03	336.5	15
SL-19-03	338	2
SL-19-03	344	2
SL-19-03	344.5	1
SL-19-03	347	1
SL-19-03	348.1	1
SL-19-03	354	1
SL-19-03	354.5	2
SL-19-03	357.5	2
SL-19-03	360.2	2
SL-19-03	365	1
SL-19-03	365.3	5
SL-19-03	366	2
SL-19-03	366.5	15
SL-19-03	368.8	2
SL-19-03	369.1	2
SL-19-03	371.1	2
SL-19-03	372	2
SL-19-03	373.5	5
SL-19-03	375	15
SL-19-03	375.5	10
SL-19-03	376.2	5
SL-19-03	377.2	3
SL-19-03	377.7	15
SL-19-03	378.1	1
SL-19-03	378.6	3
SL-19-03	379	2
SL-19-03	379.6	2
SL-19-03	381.6	2
SL-19-03	383	1
SL-19-03	383.4	2
SL-19-03	384.1	3
SL-19-03	387.1	2
SL-19-03	389.5	3

SL-19-03	393.3	3
SL-19-03	395	2
SL-19-03	396	2
SL-19-03	396.5	1
SL-19-03	397	1
SL-19-03	397.5	2
SL-19-03	398.7	5
SL-19-03	400	2
SL-19-03	401	5
SL-19-03	401.5	3
SL-19-03	402	8
SL-19-03	402.6	10
SL-19-03	403.5	5
SL-19-03	404	1
SL-19-03	406.1	3
SL-19-03	407.3	5
SL-19-03	408.9	2
SL-19-03	410.4	2
SL-19-03	411.1	3
SL-19-03	411.5	8
SL-19-03	413.5	3
SL-19-03	414.3	2
SL-19-03	415	2
SL-19-03	415.4	3
SL-19-03	415.9	1
SL-19-03	417.1	1
SL-19-03	417.5	3
SL-19-03	419.2	3
SL-19-03	421	10
SL-19-03	421.5	5
SL-19-03	422.2	3
SL-19-03	423.1	3
SL-19-03	424	8
SL-19-03	424.5	5
SL-19-03	425	5
SL-19-03	425.7	2
SL-19-03	426.4	5
SL-19-03	427.6	4
SL-19-03	428	3
SL-19-03	428.5	3
SL-19-03	428.7	10
SL-19-03	429.5	6
SL-19-03	430.5	3
SL-19-03	431	3
SL-19-03	432.8	2

SL-19-03	437.3	5
SL-19-03	438	3
SL-19-03	440.9	2
SL-19-03	441.1	3

Samples

BHID	Sample	From	To	Width	Stand/blank	Litho	Py + Po %	Cpy %	Qtz Veins %	Ni (ppm)	Cu (ppm)	Co (ppm)	S (%)	Au (ppm)	Pt (ppm)	Pd (ppm)	Re- Cu (%)	Re-Ni (%)	Re-S (%)
SL-19-03	X948548	36.0	36.5	0.5		GAB		1	10 cm QV	44	1365	34	0.65	0.005	<0.005	<0.001			
SL-19-03	X948549	39.5	40.0	0.5		GAB		1	1 cm vein	51	152	22	0.18	<0.001	<0.005	<0.001			
SL-19-03	X948550	51.0	51.5	0.5		GAB	3		1 cm py patch	64	209	27	0.35	0.001	<0.005	<0.001			
SL-19-03	X948551	73.0	74.0	1.0		FAULT	1			74	305	54	0.61	0.01	<0.005	0.001			
SL-19-03	X948552	74.0	75.0	1.0		FAULT	5		25% qtz Carb veins	339	873	92	2.11	0.016	<0.005	0.003			
SL-19-03	X948553				Blank					15	4	<1	0.01	<0.001	<0.005	<0.001			
SL-19-03	X948554	75.0	76.0	1.0		FAULT	1			117	179	30	0.16	0.001	<0.005	<0.001			
SL-19-03	X948555	81.0	82.0	1.0		GABtalc	5			455	458	85	1.84	0.006	<0.005	0.003			
SL-19-03	X948556	93.0	94.0	1.0		GABtalc	1			596	86	59	0.16	<0.001	<0.005	0.003			
SL-19-03	X948557	116.5	117.5	1.0		GAB				51	360	26	0.44	0.009	<0.005	0.005			
SL-19-03	X948558	117.5	118.5	1.0		GAB				117	137	43	0.05	0.002	0.006	0.014			
SL-19-03	X948559	118.5	119.0	0.5		GAB				111	86	41	0.14	0.003	0.006	0.013			
SL-19-03	X948560	122.9	124.0	1.1		GAB	3		Siliceous section	44	118	22	0.41	0.005	<0.005	0.005			
SL-19-03	X948561	317.0	318.0	1.0		MVOLC	1			88	53	36	0.26	0.003	<0.005	<0.001			
SL-19-03	X948562	318.0	319.0	1.0		MVOLC	3			47	341	39	0.67	0.004	<0.005	<0.001			
SL-19-03	X948563	326.0	327.3	1.3		MVOLC	0.5			394	182	30	0.39	0.001	<0.005	0.003			
SL-19-03	X948564	327.3	328.0	0.7		GABmin	1			577	481	34	0.55	0.007	<0.005	0.006			
SL-19-03	X948565	328.0	329.0	1.0		GABmin	3	0.5		6650	1820	263	4.33	0.025	0.059	0.063			
SL-19-03	X948566				13b					2220	2380	46	1.18	0.211	0.2	0.124			
SL-19-03	X948567	329.0	330.0	1.0		GABmin	3			2290	2250	170	2.46	0.394	0.059	0.037			
SL-19-03	X948568	330.0	331.0	1.0		GABmin	3	0.5		2540	1495	126	2.11	0.023	0.051	0.033			
SL-19-03	X948569	331.0	332.0	1.0		GABmin	3			2640	2250	136	2.35	0.037	0.034	0.024			
SL-19-03	X948570	332.0	333.0	1.0		GABmin	1			1440	1125	88	1.57	0.016	0.009	0.012			
SL-19-03	X948571	333.0	334.0	1.0		GABmin	1			892	1565	45	1.11	0.014	0.006	0.007			
SL-19-03	X948572	334.0	334.5	0.5		GABmin	15	0.5		5040	1385	255	4.2	0.01	0.066	0.059			
SL-19-03	X948573	334.5	335.5	1.0		GABmin	2			2140	2260	114	2.3	0.015	0.008	0.012			
SL-19-03	X948574	335.5	336.4	0.9		GABmin	3			2210	1915	125	2.44	0.015	0.007	0.012			
SL-19-03	X948575	336.4	336.7	0.3		GABmin	25			10800	3820	544	7.31	0.033	0.137	0.132		1.08	
SL-19-03	X948576				14p					20900	10150	732	24.8	0.052	0.096	0.152	1.015	2.09	24.8
SL-19-03	X948577	336.7	337.5	0.8		GABmin	3			1760	2580	88	2.07	0.011	0.02	0.02			
SL-19-03	X948578	337.5	338.5	1.0		GABmin	2			1875	1020	98	1.94	0.005	0.027	0.015			
SL-19-03	X948579	338.5	339.5	1.0		GABmin	1			1130	1460	62	1.47	0.003	0.014	0.01			
SL-19-03	X948580	339.5	340.5	1.0		GABmin	3			1595	1715	101	2.36	0.01	<0.005	0.005			
SL-19-03	X948581				Blank					7	9	<1	0.01	<0.001	<0.005	<0.001			
SL-19-03	X948582	340.5	341.5	1.0		GABmin	1			2040	1910	137	2.66	0.012	<0.005	0.007			
SL-19-03	X948583	341.5	343.0	1.5		GABmin	1			1995	2020	143	2.71	0.012	0.013	0.009			
SL-19-03	X948584	343.0	344.0	1.0		GABmin	1			1275	1525	106	2.32	0.008	<0.005	0.011			
SL-19-03	X948585	344.0	345.1	1.1		GABmin	10			2050	2470	105	2.38	0.01	0.026	0.028			
SL-19-03	X948586	345.1	346.5	1.4		GABmin	1			1030	1450	74	1.78	0.01	<0.005	0.006			
SL-19-03	X948587	346.5	347.3	0.8		GABmin				2180	1100	100	2.39	0.003	0.029	0.02			
SL-19-03	X948588	347.3	348.5	1.2		GABmin	3			594	709	50	1.18	0.005	<0.005	0.007			

SL-19-03	X948589	348.5	349.9	1.4		GABmin	1			232	726	60	1.76	0.004	<0.005	0.001
SL-19-03	X948590	349.9	351.0	1.1		GABmin	2			216	317	39	0.73	0.001	<0.005	0.001
SL-19-03	X948591	351.0	352.0	1.0		GABmin	1			689	528	50	1.12	0.007	0.009	0.009
SL-19-03	X948592	352.0	352.7	0.7		GABmin	0.5			118	156	23	0.56	<0.001	<0.005	0.001
SL-19-03	X948593	352.7	353.5	0.8		GABmin	3			1420	1875	80	2.4	0.008	0.015	0.018
SL-19-03	X948594	353.5	354.5	1.0		GABmin				1075	1425	58	2.17	0.01	<0.005	0.008
SL-19-03	X948595				Blank					7	15	1	0.01	0.001	<0.005	<0.001
SL-19-03	X948596	354.5	355.5	1.0		GABmin	7			2020	1205	111	2.86	0.007	0.032	0.021
SL-19-03	X948597	355.5	356.5	1.0		GABmin	3			618	862	33	1.26	0.002	<0.005	0.005
SL-19-03	X948598	356.5	357.5	1.0		GABmin	3			636	1135	60	3.16	0.005	<0.005	0.005
SL-19-03	X948599	357.5	358.5	1.0		GABmin	5			1795	1835	128	4.04	0.009	0.013	0.018
SL-19-03	X948600	358.5	359.8	1.3		GABmin	10			1630	1875	106	4.05	0.013	0.015	0.02
SL-19-03	X948601	359.8	360.9	1.1		GABmin	3			1390	2110	126	5.52	0.008	0.02	0.018
SL-19-03	X948602	360.9	362.0	1.1		GABmin	1			753	538	47	1.73	0.002	<0.005	0.009
SL-19-03	X948603	362.0	363.0	1.0		GABmin	10			1620	1730	93	3.65	0.013	0.015	0.021
SL-19-03	X948604			0.0	13b					2270	2410	45	1.21	0.22	0.202	0.131
SL-19-03	X948605	363.0	364.0	1.0		GABmin	5			679	882	65	2.47	0.006	<0.005	0.006
SL-19-03	X948606	364.0	365.0	1.0		GABmin	10			1375	1305	112	3.45	0.008	0.015	0.018
SL-19-03	X948607	365.0	366.0	1.0		GABmin	15			2230	1520	141	4.62	0.012	0.036	0.031
SL-19-03	X948608	366.0	367.0	1.0		GABmin	15			2810	2210	220	7.52	0.009	0.056	0.041
SL-19-03	X948609	367.0	368.0	1.0		GABmin	7			1870	1590	124	4.32	0.01	0.031	0.03
SL-19-03	X948610	368.0	369.0	1.0		GABmin	15			1350	1465	100	3.68	0.008	0.027	0.022
SL-19-03	X948611	369.0	370.0	1.0		GABmin	10			883	1105	79	2.61	0.009	0.018	0.014
SL-19-03	X948612	370.0	371.0	1.0		GABmin	5		3cm white QV	1360	1330	93	3.44	0.009	0.021	0.02
SL-19-03	X948613	371.0	372.0	1.0		GABmin	10			904	872	69	2.9	0.007	0.013	0.015
SL-19-03	X948614	372.0	373.0	1.0		GABmin	5			478	658	55	2.51	0.003	0.013	0.011
SL-19-03	X948615	373.0	374.0	1.0		GABmin	3	1		1095	1155	75	3.97	0.003	0.018	0.017
SL-19-03	X948616	374.0	375.0	1.0		GABmin	5			1240	1295	78	3.41	0.005	0.017	0.017
SL-19-03	X948617	375.0	376.0	1.0		GABmin	10			2980	2550	187	5.35	0.021	0.032	0.027
SL-19-03	X948618	376.0	377.0	1.0		GABmin	10			2420	1015	134	3.87	0.008	0.031	0.026
SL-19-03	X948619	377.0	378.0	1.0		GABmin	5			2180	1270	273	7.25	0.011	0.042	0.022
SL-19-03	X948620	378.0	379.0	1.0		GABmin	10			1640	952	100	3.16	0.004	0.027	0.017
SL-19-03	X948621	379.0	380.0	1.0		GABmin	5			2090	1555	152	4.16	0.026	0.032	0.022
SL-19-03	X948622	380.0	380.5	0.5		GABmin	7			1160	1145	85	3.29	0.005	0.016	0.015
SL-19-03	X948623	380.5	381.5	1.0		GABmin	1			706	1185	79	4.14	0.007	0.011	0.012
SL-19-03	X948624	381.5	382.5	1.0		GABmin	10			2450	1835	142	4.67	0.009	0.023	0.027
SL-19-03	X948625	382.5	384.0	1.5		GABmin	7			2010	1500	121	3.7	0.01	0.018	0.022
SL-19-03	X948626	384.0	385.0	1.0		MVOLCblch	3			1675	1390	138	4.19	0.01	0.014	0.016
SL-19-03	X948627	385.0	386.0	1.0		MVOLCblch	3			1865	1490	116	3.48	0.011	0.013	0.015
SL-19-03	X948628	386.0	387.0	1.0		MVOLCblch	3			1910	1235	146	4.27	0.01	0.017	0.02
SL-19-03	X948629				Blank					15	6	<1	0.02	<0.001	<0.005	<0.001
SL-19-03	X948630	387.0	388.0	1.0		MVOLCblch	10			3500	2440	231	7.59	0.028	0.015	0.022
SL-19-03	X948631	388.0	389.0	1.0		MVOLCblch	5			3800	3040	278	8.91	0.029	0.026	0.029
SL-19-03	X948632	389.0	390.0	1.0		MVOLCblch	15			3710	3090	195	7.65	0.047	0.026	0.032
SL-19-03	X948633	390.0	391.0	1.0		MVOLCblch	10			1920	1680	116	3.92	0.014	0.016	0.016

SL-19-03	X948634	391.0	392.0	1.0		MVOLCblch	3			1220	695	94	2.41	0.008	0.009	0.009		
SL-19-03	X948635	392.0	393.0	1.0		MVOLCblch	5			2030	1755	131	4.2	0.015	0.017	0.02		
SL-19-03	X948636				13b					2250	2370	46	1.18	0.215	0.198	0.129		
SL-19-03	X948637	393.0	393.5	0.5		MVOLCblch	5		Grey Qtz Vein	914	797	75	2.25	0.007	0.013	0.008		
SL-19-03	X948638	393.5	394.7	1.2		MVOLCblch	5			1190	851	77	2.27	0.007	0.014	0.011		
SL-19-03	X948639	394.7	396.0	1.3		GABmin	3			1295	1350	94	3.29	0.018	0.012	0.01		
SL-19-03	X948640	396.0	397.0	1.0		GABmin	10			1545	1360	97	3.41	0.008	0.01	0.012		
SL-19-03	X948641	397.0	398.0	1.0		GABmin	10			1620	1815	113	3.47	0.008	0.008	0.01		
SL-19-03	X948642	398.0	399.0	1.0		GABmin	5			2210	1710	129	4.04	0.009	0.013	0.013		
SL-19-03	X948643	399.0	400.0	1.0		GABmin	7			1875	1355	108	3.13	0.008	0.016	0.012		
SL-19-03	X948644	400.0	401.0	1.0		GABmin	10			1825	1640	121	3.22	0.01	0.015	0.013		
SL-19-03	X948645	401.0	402.0	1.0		GABmin	5			4230	2440	237	5.96	0.01	0.027	0.023		
SL-19-03	X948646				Blank					21	9	<1	0.02	<0.001	<0.005	<0.001		
SL-19-03	X948647	402.0	403.0	1.0		GABmin	7	1		3180	1670	198	4.52	0.007	0.025	0.019		
SL-19-03	X948648	403.0	404.0	1.0		GABmin	15	1		2860	3770	189	4.62	0.014	0.022	0.022		
SL-19-03	X948649	404.0	405.0	1.0		GABmin	5			3530	1990	159	3.78	0.02	0.019	0.022		
SL-19-03	X948650	405.0	406.0	1.0		GABmin	5			2560	1765	144	3.35	0.013	0.011	0.014		
SL-19-03	X948651	406.0	407.0	1.0		GABmin	10			2790	990	101	2.65	0.005	0.016	0.018		
SL-19-03	X948652	407.0	408.0	1.0		GABmin	15			3260	6220	287	6.78	0.032	0.036	0.025		
SL-19-03	X948653	408.0	409.0	1.0		GABmin	10			1470	1195	97	2.39	0.017	0.014	0.009		
SL-19-03	X948654	409.0	410.0	1.0		GABmin	5			1820	1055	88	2.21	0.006	0.009	0.009		
SL-19-03	X948655	410.0	411.0	1.0		GABmin	3			1455	1185	108	2.73	0.016	0.015	0.007		
SL-19-03	X948656	411.0	412.0	1.0		GABmin	10			4630	2860	320	6.86	0.029	0.051	0.033		
SL-19-03	X948657	412.0	413.0	1.0		GABmin	5			2920	3260	149	3.59	0.014	0.023	0.015		
SL-19-03	X948658	413.0	414.0	1.0		GABmin	10			3290	2130	154	3.94	0.015	0.022	0.016		
SL-19-03	X948659	414.0	415.0	1.0		GABmin	15			3510	2510	214	5.97	0.015	0.028	0.029		
SL-19-03	X948660				Blank					19	10	<1	0.02	0.001	<0.005	<0.001		
SL-19-03	X948661	415.0	416.0	1.0		GABmin	10			2690	1680	281	5.02	0.016	0.086	0.029		
SL-19-03	X948662	416.0	417.0	1.0		GABmin	7			2120	2010	116	3.19	0.014	0.035	0.016		
SL-19-03	X948663	417.0	418.0	1.0		GABmin	5	1		2910	3030	212	4.76	0.026	0.061	0.023		
SL-19-03	X948664	418.0	419.0	1.0		GABmin	10			1655	1440	148	3	0.013	0.037	0.016		
SL-19-03	X948665	419.0	420.0	1.0		GABmin	15			6310	3670	403	8.05	0.02	0.1	0.062		
SL-19-03	X948666				14p					20100	9740	709	25	0.049	0.1	0.144	2.01	25
SL-19-03	X948667	420.0	421.0	1.0		GABmin	5	1		5010	3070	227	4.77	0.039	0.059	0.053		
SL-19-03	X948668	421.0	422.0	1.0		GABmin	7	1		4530	4310	205	4.1	0.021	0.062	0.037		
SL-19-03	X948669	422.0	423.0	1.0		GABmin	3			1895	4620	102	2.32	0.028	0.025	0.015		
SL-19-03	X948670	423.0	424.0	1.0		GABmin	3			3140	1720	177	3.28	0.013	0.046	0.03		
SL-19-03	X948671	424.0	425.0	1.0		GABmin	5			4260	2990	246	4.21	0.005	0.059	0.042		
SL-19-03	X948672	425.0	426.0	1.0		GABmin	1			4300	3500	256	4.22	0.015	0.049	0.042		
SL-19-03	X948673	426.0	427.0	1.0		GABmin				2480	1880	170	3.25	0.01	0.029	0.022		
SL-19-03	X948674	427.0	428.0	1.0		GABmin				2140	2230	146	2.79	0.024	0.026	0.024		
SL-19-03	X948675	428.0	429.0	1.0		GABmin	3			3650	2700	243	3.94	0.012	0.07	0.045		
SL-19-03	X948676	429.0	430.0	1.0		GABmin	10			5010	2010	359	4.69	0.014	0.067	0.051		
SL-19-03	X948677				Blank					23	10	<1	0.03	0.001	0.005	0.001		
SL-19-03	X948678	430.0	431.0	1.0		GABmin	10			4350	2220	292	4.28	0.012	0.043	0.049		

SL-19-03	X948679	431.0	432.0	1.0		GABmin				2350	1440	161	2.76	0.021	0.018	0.025	
SL-19-03	X948680	432.0	432.9	0.9		GABmin				1910	1500	138	2.4	0.016	0.02	0.02	
SL-19-03	X948681	432.9	434.0	1.1		GABmin				78	141	16	0.09	0.008	0.006	<0.001	
SL-19-03	X948682	434.0	435.5	1.5		GABmin				74	243	14	0.08	0.033	<0.005	<0.001	
SL-19-03	X948683	435.5	436.5	1.0		GABmin				75	29	15	0.04	0.001	<0.005	0.001	
SL-19-03	X948684	436.5	437.3	0.8		GABmin				326	106	21	0.35	<0.001	<0.005	0.004	
SL-19-03	X948685	437.3	438.5	1.2		GABmin				3050	1555	288	3.89	0.014	0.037	0.044	
SL-19-03	X948686				13b					2300	2410	47	1.22	0.178	0.17	0.111	
SL-19-03	X948687	438.5	439.5	1.0		GABmin				3040	1795	188	3.27	0.013	0.031	0.035	
SL-19-03	X948688	439.5	440.5	1.0		GABmin				1735	567	101	1.72	0.003	0.013	0.02	
SL-19-03	X948689	440.5	441.4	0.9		GABmin				5650	2450	511	5.29	0.041	0.033	0.086	
SL-19-03	X948690	441.4	442.5	1.1		GABmin	1			39	128	17	0.02	0.004	<0.005	0.001	
SL-19-03	X948691	456.0	457.0	1.0		GABmin		10		82	121	38	0.1	0.001	<0.005	0.001	
SL-19-03	X948692	457.0	458.0	1.0		GABmin		10		87	76	39	0.29	0.001	<0.005	0.002	

MTC-19-04

Drill Hole Summary

DDH ID	SL-19-04							
		(Nad 83)						
	Cell Mining Claim #	Zone	East (UTM)	North (UTM)	Elev	Az	Dip	EOH (m)
Location	237156	17U	603615	5469107	290.14	330	-45	342.00

Purpose	Test Airborne EM anomaly coincident with sulphide mineralization in historical drilling		
Explanation	No conductive material in hole		
Start date	September 26, 2019		
End date	September 29, 2019		
Drill Contractor	NPLH Drilling		
Core Size	NQ		
Core Storage	Doug Bryant Shop on Airport Road - 17U 472500/5378900		
Casing	Casing left in ground	**Capping**	Metal Cap with Metal Flag
Artesian Y/N	N		
Water Source	Small creek within 125m of drill - 17U 603519/5469269, Casing for SL-19-02 used when creek flow slowed.		
Logged By	Todd Keast		
Log Completed	September 29, 2019	Assays Added	September 19, 2019
Comments	Camp at gravel pit on Tomlinson Road 17U 576330/5467800		
Comments	Chopper landing pad - 17U 603431/5469387		
Comments	Borehole EM survey completed		

Lithologies

BHID	From	To	Litho	Comment
SL-19-04	0	23.10	CAS	CASING-Overburden
SL-19-04	23.10	24.30	MVOLC	Mafic Volcanic - Dark green with 10-15% carbonate stringers forming a weak foliation. Chloritic H<7 readily.
SL-19-04	24.30	26.90	IDIKE	Intermediate Dike - Green -grey fine grained with 3-5% feldspar phenocrysts subhedral. Sharp upper and lower contacts
SL-19-04	26.90	42.60	GABxln	Gabbro - Green with distinct feldspar in the groundmass. Medium grained massive gabbroic texture. Pyroxene distinct in 1-4mm phenocrysts. tr py po
SL-19-04	42.60	49.20	ARG	Argillite - Grey buff fine grained cherty sediment with scattered intervals with well developed banding/bedding. Fine, 0.5mm laminations darker grey. Siliceous cherty unit H>>7. Sharp upper contact 46.0-47.8 Broken Blocky core. 48.2-49.2 Green mafic volcanic interval with carb stringers, moderate foliation.
SL-19-04	49.20	54.40	ARGsilic	Argillite Silicified- light buff fine siliceous as continuation of above unit. Increasing silicification overprint textrure 50% qtz flooding qtz veins
SL-19-04	54.40	60.10	GABshr	Gabbro- Dark green with mod to strong foliation. Sharp upper contact. 56.0-60.8 Gabbro with weak foliation 59.8-60.1 Strong foliation chlor carb schist.
SL-19-04	60.10	62.40	ARG	Argillite - Grey buff fine grained cherty sediment with scattered intervals with well developed banding/bedding. Fine, 0.5mm laminations darker grey. Siliceous cherty unit H>>7. Sharp upper contact
SL-19-04	62.40	64.50	GABxln	Gabbro - Green with distinct feldspar in the groundmass. Medium grained massive gabbroic texture. Pyroxene distinct in 1-4mm phenocrysts. tr py po
SL-19-04	64.50	67.10	ARG	Argillite - Grey buff fine grained cherty sediment with scattered intervals with well developed banding/bedding. Fine, 0.5mm laminations darker grey. Siliceous cherty unit H>>7. Sharp upper contact
SL-19-04	67.10	76.00	GABxln	Gabbro - Green with distinct feldspar in the groundmass. Medium grained massive gabbroic texture. Pyroxene distinct in 1-4mm phenocrysts. tr py po, Sharp upper contact 72.5-73.1 Narrow fine green mafic volcanic xenolith? Foliation in gabbro increasing down hole.

SL-19-04	76.00	85.90	ARG	Argillite - Grey buff fine grained cherty sediment with scattered intervals with well developed banding/bedding. Fine, 0.5mm laminations darker grey. Siliceous cherty unit H>>7. Sharp upper contact 76.5-78.2 Broken blocky core, fault gouge. 81.9-82.5 Narrow interval mafic volcanic, mod foliation 83.7-84.8 Mafic volcanic, sharp upper contact
SL-19-04	85.90	109.30	GABxln	Gabbro - Green with distinct feldspar in the groundmass. Medium grained massive gabbroic texture. Pyroxene distinct in 1-4mm phenocrysts. tr py po, Sharp upper contact Weak foliation at top unit becoming massive downhole H>7 91.5-92.7 local section fine grained chloritic.
SL-19-04	109.30	111.20	GABshr	Gabbro - Dark green fine grained massive. Gabbro overprint with increasing foliation down unit. Relatively abrupt upper contact. 1% fine py
SL-19-04	111.20	123.00	GABxln	Gabbro - Green with distinct feldspar in the groundmass. Medium grained massive gabbroic texture. Pyroxene distinct in 1-4mm phenocrysts. Feldspar 50% Mafic Minerals 50%
SL-19-04	123.00	132.00	GABxln	Gabbro massive- Sharp upper contact. Patchy appearance with dark green rounded patches.
SL-19-04	132.00	164.90	GAB	Gabbro- Fine grained with sharp upper contact. Variable texture down unit possible mafic flow features locally in narrow intervals. 136.1-136.9 IDIKE sharp upper and lower contact Gradual increase in grain size downhole.
SL-19-04	164.90	200.20	GAB	Gabbro- Dark black fine grained massive, 80% mafic 20% feldspar variable texture intrusive breccia Sharp upper contact fine grained chill for 2 cm. Slight grain size increase down unit
SL-19-04	200.20	203.50	IDIKE	Intermediate Dike - Dark grey matrix with 3-5% white feldspar phenocrysts 1-4mm. Sharp upper and lower contacts.
SL-19-04	203.50	206.40	FDIKE	Felsic Dike - Light buff fine aphanitic siliceous felsic dike. Sharp upper and lower contacts. 203.5-205.4 bleached light altered section, 1-3% py
SL-19-04	206.40	256.50	GAB	Gabbro - Fine grained massive gabbro with local medium grained intervals. Variable texture intrusive breccia tr -.5% po in fine dissem increasing down unit.

				212.5-213.4 Felsic Dike light buff sharp contacts 221.7 2 cm wide patch of 3-5% po in disseminations a 1 cm blebs. 224.5-226.0 Broken Blocky core Unit is hard H>7 Rare widely spaced discontinuous stringer po. 256.5 narrow fine grained lighter grey interval
SL-19-04	256.50	277.90	GAB	Gabbro Fine to medium grained- slightly darker 30-70 felsic to mafic composition. - Dark green, variable textured, local lighter patchy intervals, brecciated appearance, intrusive breccia? Rare widely spaced fine grain bleb of po,cpy.
SL-19-04	277.90	281.20	IDIKE	Intermediate Dike - Dark grey matrix with 15-20% white feldspar phenocrysts 1-4mm. Sharp upper and lower contacts.
SL-19-04	281.20	311.00	GAB	Gabbro - Fine grained massive gabbro with local medium grained intervals. tr -.5% po in fine dissem increasing down unit.
SL-19-04	311.00	314.00	IDIKE	Intermediate Dike - Dark grey matrix with 15-20% white feldspar phenocrysts 1-4mm. Sharp upper and lower contacts.
SL-19-04	314.00	342.00	GAB	Gabbro - Fine grained massive gabbro with local medium grained intervals. tr -.5% po in fine dissem increasing down unit.

Reflex Test

BHID	Depth	Az	Declin (-13)	Dip	Mag Field	Mag Susc	Use Az	Use Dip	Comments
SL-19-04	0		330.0	-45.0			Y	Y	As spotted in field
SL-19-04	33.0	341.4	328.4	-43.9	56157	0.62	Y	Y	
SL-19-04	84.0	342.0	329.0	-43.5	56000	0.22	Y	Y	
SL-19-04	150.0	343.6	330.6	-43.3	56147	0.43	Y	Y	
SL-19-04	201.0	345.8	332.8	-43.2	55743	0.20	Y	Y	
SL-19-04	249.0	346.2	333.2	-43.0	56501	0.71	Y	Y	
SL-19-04	300.0	347.7	334.7	-42.7	56029	0.52	Y	Y	

Magnetic Susceptibility

BHID	Depth	MS	Lith
SL-19-04	MS-1	76.50	
SL-19-04	24.0	0.43	MVOLC
SL-19-04	28.0	0.44	GABxln
SL-19-04	32.5	0.61	GABxln
SL-19-04	35.0	1.28	GABxln
SL-19-04	38.0	0.90	GABxln
SL-19-04	42.0	0.50	GABxln
SL-19-04	43.5	0.07	ARG
SL-19-04	45.0	0.09	ARG
SL-19-04	48.0	0.30	ARG
SL-19-04	MS-3	1.14	
SL-19-04	50.5	0.40	ARGsilic
SL-19-04	53.5	0.17	ARGsilic
SL-19-04	55.0	0.40	GABshr
SL-19-04	57.0	0.53	GABshr
SL-19-04	59.0	0.41	GABshr
SL-19-04	60.5	0.01	ARG
SL-19-04	62.0	0.22	ARG
SL-19-04	63.5	0.58	GABxln
SL-19-04	66.0	0.07	ARG
SL-19-04	69.0	0.41	GAB
SL-19-04	MS-3	1.13	
SL-19-04	72.0	0.92	GAB
SL-19-04	73.0	0.63	GAB
SL-19-04	76.0	0.64	GAB
SL-19-04	78.0	0.06	ARG
SL-19-04	80.0	0.05	ARG
SL-19-04	83.0	0.08	ARG
SL-19-04	84.0	0.22	ARG
SL-19-04	MS-2	0.07	
SL-19-04	87.5	0.65	GABxln
SL-19-04	90.0	0.46	GABxln
SL-19-04	93.0	0.41	GABxln
SL-19-04	96.0	0.40	GABxln
SL-19-04	100.0	0.44	GABxln
SL-19-04	106.0	0.47	GABxln
SL-19-04	112.5	0.35	GABxln
SL-19-04	MS-3	1.14	
SL-19-04	116.0	0.46	GABxln
SL-19-04	123.0	0.52	GABxln
SL-19-04	126.0	0.98	GABxln
SL-19-04	129.0	2.11	GABxln

SL-19-04	131.0	1.91	GABxln
SL-19-04	133.0	0.65	GAB
SL-19-04	136.0	0.44	GAB
SL-19-04	137.5	0.45	GAB
SL-19-04	MS-4	23.20	
SL-19-04	140.5	0.49	GAB
SL-19-04	143.5	0.47	GAB
SL-19-04	146.0	0.41	GAB
SL-19-04	149.0	0.48	GAB
SL-19-04	150.5	0.45	GAB
SL-19-04	154.0	0.41	GAB
SL-19-04	159.0	0.38	GAB
SL-19-04	162.0	0.44	GAB
SL-19-04	MS-4	24.30	
SL-19-04	166.0	0.43	GAB
SL-19-04	170.5	0.49	GAB
SL-19-04	174.0	0.58	GAB
SL-19-04	180.0	0.72	GAB
SL-19-04	182.0	0.85	GAB
SL-19-04	185.0	1.48	GAB
SL-19-04	187.0	0.74	GAB
SL-19-04	191.0	1.48	GAB
SL-19-04	MS-1	69.80	
SL-19-04	193.0	0.44	GAB
SL-19-04	196.0	0.60	GAB
SL-19-04	198.0	1.38	GAB
SL-19-04	201.0	0.20	IDIKE
SL-19-04	204.0	0.45	FDIKE
SL-19-04	207.0	0.52	GAB
SL-19-04	210.0	0.69	GAB
SL-19-04	214.0	0.90	GAB
SL-19-04	MS-2	0.06	
SL-19-04	218.0	0.34	GAB
SL-19-04	220.0	0.67	GAB
SL-19-04	225.0	0.47	GAB
SL-19-04	231.0	0.45	GAB
SL-19-04	238.0	0.70	GAB
SL-19-04	244.0	0.66	GAB
SL-19-04	251.0	0.56	GAB
SL-19-04	MS-1	73.00	
SL-19-04	257.0	0.42	GAB
SL-19-04	265.0	0.45	GAB
SL-19-04	275.0	0.59	GAB
SL-19-04	279.0	0.31	IDIKE
SL-19-04	285.0	0.58	GAB

SL-19-04	299.0	0.52	GAB
SL-19-04	305.0	0.53	GAB
SL-19-04	310.5	0.39	IDIKE
SL-19-04	MS-3	1.14	

Specific Gravity

BHID	Date	Depth	Litho	Dry 1	Dry 2	Average	Wet 1	Wet 2	Average	SG	Mag Susc
SL-19-04	September 27, 2019	Weight	0.81	0.81	0.82						
SL-19-04	September 27, 2019	SG-1	Jasper	367.11	367.11	367.11	232.27	232.22	232.25	2.72	
SL-19-04	September 27, 2019	36.70	GABxln	515.67	515.67	515.67	350.82	350.75	350.79	3.13	0.81
SL-19-04	September 27, 2019	44.20	ARG	394.99	395.00	395.00	247.52	247.48	247.50	2.68	0.22
SL-19-04	September 27, 2019	66.00	ARG	359.19	359.16	359.18	225.12	225.12	225.12	2.68	0.13
SL-19-04	September 27, 2019	80.50	ARG	307.59	307.60	307.60	192.48	192.49	192.49	2.67	0.14
SL-19-04	September 27, 2019	94.20	GABxln	445.90	445.89	445.90	299.52	299.48	299.50	3.05	0.41
SL-19-04	September 28, 2019	131.00	GABxln	475.87	465.88	470.88	320.4	320.31	320.36	3.13	1.48
SL-19-04	September 28, 2019	162.50	GAB	555.02	555.02	555.02	373.88	373.91	373.90	3.06	0.39
SL-19-04	September 28, 2019	189.50	GAB	333.24	333.26	333.25	224.99	224.95	224.97	3.08	3.50
SL-19-04	September 28, 2019	218.30	GAB	269.38	269.39	269.39	173.64	173.66	173.65	2.81	0.39
SL-19-04	September 29, 2019	Weight	50	50.08							
SL-19-04	September 29, 2019	SG-4	Glass	273.73	273.72	273.73	163.92	163.92	163.92	2.49	
SL-19-04	September 29, 2019	254.00	GAB	508.58	508.59	508.59	343.73	343.68	343.71	3.08	0.60
SL-19-04	September 29, 2019	289.50	GAB	519.53	519.53	519.53	349.85	349.80	349.83	3.06	0.43
SL-19-04	September 29, 2019	303.00	GAB	457.57	457.59	457.58	306.98	306.95	306.97	3.04	0.46

Core Angles

BHID	Depth	Core Angle	Foliation	Contact	Bedding/Banding	Fault gouge	Comment
SL-19-04	23.50	10	Mod				
SL-19-04	33.50	30	Mod				
SL-19-04	42.60	60		Sharp			
SL-19-04	44.50	25			Laminations		
SL-19-04	49.20	30		Sharp			
SL-19-04	50.50	45			Laminations		
SL-19-04	52.00	45	Strong				
SL-19-04	55.00	40	Mod				
SL-19-04	60.20	30					Qtz Vein
SL-19-04	60.25						Sulphide bleb rotated right hand rotation
SL-19-04	60.80	40			Laminations		
SL-19-04	64.50	40		Sharp			
SL-19-04	67.10	45		Sharp			
SL-19-04	72.50	65		Sharp			
SL-19-04	76.00	50		Sharp			
SL-19-04	76.50	25			Laminations		
SL-19-04	80.00	30			Laminations		
SL-19-04	85.90	40		Sharp			
SL-19-04	109.30	40		Sharp			
SL-19-04	111.00	50	Mod				
SL-19-04	121.50	40	Weak				
SL-19-04	200.20	75		Sharp			
SL-19-04	245.50	45	Weak				
SL-19-04	277.90	70		Sharp			

Rock Quality Designation

BHID	From	To	Recovery	RQD	Comments
SL-19-04	0.0	21.5	CAS		
SL-19-04	21.5	24.0	1.5	1.4	
SL-19-04	24.0	27.0	2.9	2.6	
SL-19-04	27.0	30.0	2.9	1.8	
SL-19-04	30.0	33.0	3.0	2.8	
SL-19-04	33.0	36.0	3.0	2.9	
SL-19-04	36.0	39.0	3.0	2.8	
SL-19-04	39.0	42.0	3.0	2.7	
SL-19-04	42.0	45.0	3.0	2.7	
SL-19-04	45.0	48.0	2.8	0.8	
SL-19-04	48.0	51.0	3.0	2.1	
SL-19-04	51.0	54.0	3.0	3.0	
SL-19-04	54.0	57.0	3.0	2.8	
SL-19-04	57.0	60.0	3.0	2.9	
SL-19-04	60.0	63.0	3.0	2.8	
SL-19-04	63.0	66.0	3.0	1.9	
SL-19-04	66.0	69.0	3.0	2.9	
SL-19-04	69.0	72.0	3.0	3.0	
SL-19-04	72.0	75.0	3.0	2.7	
SL-19-04	75.0	78.0	3.0	1.5	
SL-19-04	78.0	81.0	3.0	2.0	
SL-19-04	81.0	84.0	3.0	2.9	
SL-19-04	84.0	87.0	3.0	2.4	
SL-19-04	87.0	90.0	3.0	3.0	
SL-19-04	90.0	93.0	3.0	2.9	
SL-19-04	93.0	96.0	3.0	3.0	
SL-19-04	96.0	99.0	3.0	2.9	
SL-19-04	99.0	102.0	3.0	3.0	
SL-19-04	102.0	105.0	3.0	3.0	
SL-19-04	105.0	108.0	3.0	3.0	
SL-19-04	108.0	111.0	3.0	3.0	
SL-19-04	111.0	114.0	2.9	2.5	
SL-19-04	114.0	117.0	3.0	3.0	
SL-19-04	117.0	120.0	3.0	3.0	
SL-19-04	120.0	123.0	3.0	3.0	
SL-19-04	123.0	126.0	3.0	2.8	
SL-19-04	126.0	129.0	3.0	3.0	
SL-19-04	129.0	132.0	3.0	2.9	
SL-19-04	132.0	135.0	3.0	3.0	
SL-19-04	135.0	138.0	2.9	2.9	
SL-19-04	138.0	141.0	3.0	2.8	
SL-19-04	141.0	144.0	3.0	2.9	

SL-19-04	144.0	147.0	3.0	2.9
SL-19-04	147.0	150.0	2.9	2.9
SL-19-04	150.0	153.0	3.0	2.8
SL-19-04	153.0	156.0	3.0	3.0
SL-19-04	156.0	159.0	3.0	2.9
SL-19-04	159.0	162.0	2.9	2.4
SL-19-04	162.0	165.0	2.9	2.8
SL-19-04	165.0	168.0	2.8	2.5
SL-19-04	168.0	171.0	3.0	3.0
SL-19-04	171.0	174.0	3.0	3.0
SL-19-04	174.0	177.0	3.0	2.8
SL-19-04	177.0	180.0	3.0	2.9
SL-19-04	180.0	183.0	3.0	2.9
SL-19-04	183.0	186.0	3.0	2.9
SL-19-04	186.0	189.0	3.0	2.8
SL-19-04	189.0	192.0	3.0	2.9
SL-19-04	192.0	195.0	2.9	2.5
SL-19-04	195.0	198.0	2.9	2.6
SL-19-04	198.0	201.0	3.0	2.9
SL-19-04	201.0	204.0	3.0	2.9
SL-19-04	204.0	207.0	2.9	1.9
SL-19-04	207.0	210.0	3.0	3.0
SL-19-04	210.0	213.0	3.0	2.9
SL-19-04	213.0	216.0	3.0	2.8
SL-19-04	216.0	219.0	3.0	2.5
SL-19-04	219.0	222.0	3.0	2.6
SL-19-04	222.0	225.0	2.8	2.6
SL-19-04	225.0	228.0	2.8	2.5
SL-19-04	228.0	231.0	2.9	2.6
SL-19-04	231.0	234.0	3.0	2.9
SL-19-04	234.0	237.0	2.8	2.6
SL-19-04	237.0	240.0	3.0	2.8
SL-19-04	240.0	243.0	3.0	2.9
SL-19-04	243.0	246.0	3.0	2.7
SL-19-04	246.0	249.0	3.0	2.8
SL-19-04	249.0	252.0	3.0	2.7
SL-19-04	252.0	255.0	2.9	2.8
SL-19-04	255.0	258.0	2.8	2.7
SL-19-04	258.0	261.0	3.0	2.6
SL-19-04	261.0	264.0	3.0	2.7
SL-19-04	264.0	267.0	3.0	2.9
SL-19-04	267.0	270.0	3.0	2.9
SL-19-04	270.0	273.0	3.0	3.0
SL-19-04	273.0	276.0	3.0	2.8
SL-19-04	276.0	279.0	2.9	2.6

SL-19-04	279.0	282.0	3.0	2.9
SL-19-04	282.0	285.0	3.0	2.8
SL-19-04	285.0	288.0	3.0	2.9
SL-19-04	288.0	291.0	2.9	2.6
SL-19-04	291.0	294.0	3.0	2.9
SL-19-04	294.0	297.0	2.9	2.7
SL-19-04	297.0	300.0	3.0	2.8
SL-19-04	300.0	303.0	3.0	2.9
SL-19-04	303.0	306.0	3.0	2.7
SL-19-04	306.0	309.0	3.0	3.0
SL-19-04	309.0	312.0	3.0	3.0
SL-19-04	312.0	315.0	3.0	3.0
SL-19-04	315.0	318.0	3.0	3.0
SL-19-04	318.0	321.0	3.0	3.0
SL-19-04	321.0	324.0	3.0	3.0
SL-19-04	324.0	327.0	3.0	3.0
SL-19-04	327.0	330.0	3.0	3.0
SL-19-04	330.0	333.0	3.0	3.0
SL-19-04	333.0	336.0	3.0	3.0
SL-19-04	336.0	339.0	3.0	3.0
SL-19-04	339.0	342.0	3.0	3.0

Samples

BHID	Sample	From	To	Width	Stand/blank	Litho	Py + Po %	Cpy %	Qtz Veins %	Au (ppm)
SL-19-04	X948693	47.0	48.2	1.2		ARG				<0.005
SL-19-04	X948694	48.2	49.2	1.0		ARG	0.5		2	<0.005
SL-19-04	X948695	49.2	50.0	0.8		ARGsilic	0.5		50	<0.005
SL-19-04	X948696	50.0	51.0	1.0		ARGsilic			10	<0.005
SL-19-04	X948697				blank					<0.005
SL-19-04	X948698	51.0	52.0				0.5		25	<0.005
SL-19-04	X948699				13b					0.211
SL-19-04	X948700	52.0	53.0	1.0		ARGsilic	0.5		50	<0.005
SL-19-04	X948701	53.0	54.0	1.0		ARGsilic			3	<0.005
SL-19-04	X948702	54.0	54.4	0.4		ARGsilic			1	<0.005
SL-19-04	X948703	54.4	55.5	1.1		GABshr				<0.005
SL-19-04	X948704	82.5	83.5	1.0		ARG				<0.005
SL-19-04	X948706	204.5	205.4	0.9		IDIKE	2			0.013

Appendix C: Assay Certificates

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
This copy reported on 18-OCT-2019
Account: PRPKNHJI

CERTIFICATE TM19235856

Project: St. Laurent

This report is for 64 Drill Core samples submitted to our lab in Timmins, ON, Canada on 20-SEP-2019.

The following have access to data associated with this certificate:

LAYTON CROFT	TODD KEAST	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize up to 250g 85% <75 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
Ni-OG46	Ore Grade Ni - Aqua Regia	

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

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

Signature:

Saa Traxler, General Manager, North Vancouver

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description / Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
X948451	2.39	<0.001	<0.005	<0.001	<0.2	2.99	<2	<10	20	<0.5	<2	1.35	<0.5	38	136
X948452	1.23	<0.001	<0.005	<0.001	<0.2	4.05	<2	<10	20	<0.5	<2	7.2	<0.5	39	120
X948453	2.02	0.003	<0.005	<0.001	<0.2	3.79	<2	<10	20	<0.5	<2	6.24	<0.5	39	148
X948454	2.00	<0.001	<0.005	0.001	<0.2	3.52	<2	<10	10	<0.5	<2	6.66	<0.5	33	122
X948455	0.96	<0.001	<0.005	<0.001	<0.2	3.51	<2	<10	10	<0.5	<2	10.9	0.5	35	118
X948456	2.51	<0.001	<0.005	<0.001	0.2	1.06	<2	<10	<10	<0.5	<2	1.63	<0.5	29	37
X948457	2.45	0.002	<0.005	0.004	0.2	2.31	4	<10	20	<0.5	<2	2.18	<0.5	50	68
X948458	0.99	<0.001	<0.005	<0.001	<0.2	0.19	<2	<10	10	<0.5	<2	0.70	<0.5	10	15
X948459	1.07	0.015	<0.005	<0.001	0.6	2.85	32	<10	60	<0.5	<2	2.90	0.6	76	96
X948460	2.60	0.005	<0.005	<0.001	0.5	0.71	6	<10	10	<0.5	<2	2.46	<0.5	21	83
X948461	1.44	<0.001	<0.005	0.001	<0.2	2.96	2	<10	20	0.5	<2	6.36	<0.5	39	761
X948462	2.81	<0.001	<0.005	<0.001	<0.2	2.39	2	<10	30	<0.5	<2	3.75	<0.5	24	76
X948463	2.48	0.013	0.006	0.005	0.2	2.12	<2	<10	10	<0.5	<2	1.22	<0.5	38	51
X948464	1.18	0.005	<0.005	<0.001	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948465	2.55	0.073	0.043	0.046	1.7	1.96	4	<10	10	<0.5	<2	1.91	0.7	155	63
X948466	3.79	0.122	0.018	0.023	1.8	1.69	4	<10	10	<0.5	<2	1.07	0.8	84	54
X948467	3.83	0.033	0.007	0.018	0.9	1.43	<2	<10	10	<0.5	<2	0.92	0.5	70	53
X948468	3.96	0.122	0.036	0.039	0.9	1.49	<2	<10	10	<0.5	<2	0.75	0.5	175	51
X948469	0.06	0.219	0.201	0.130	0.9	1.94	57	10	140	<0.5	<2	1.48	<0.5	45	262
X948470	3.66	0.037	<0.005	0.013	0.6	1.67	<2	<10	10	<0.5	<2	1.07	<0.5	93	57
X948471	3.66	0.062	0.009	0.036	0.8	1.58	<2	<10	10	<0.5	<2	1.16	0.6	205	65
X948472	3.85	0.024	0.056	0.051	0.6	1.76	<2	<10	10	<0.5	<2	0.81	<0.5	296	77
X948473	3.16	<0.001	0.005	0.002	<0.2	2.07	<2	<10	10	<0.5	<2	2.61	<0.5	22	98
X948474	3.38	<0.001	<0.005	0.001	<0.2	1.24	<2	<10	20	<0.5	<2	0.82	<0.5	10	70
X948475	2.19	<0.001	<0.005	0.001	<0.2	1.34	<2	<10	10	<0.5	<2	0.87	<0.5	12	72
X948476	2.83	0.031	0.025	0.033	1.0	1.93	<2	<10	10	<0.5	<2	0.81	0.7	157	64
X948477	2.66	0.048	0.573	0.139	1.5	0.92	<2	<10	10	<0.5	<2	0.53	<0.5	752	56
X948478	2.89	0.025	0.357	0.113	1.2	1.39	<2	<10	<10	<0.5	<2	0.39	<0.5	829	80
X948479	1.38	0.117	0.098	0.031	2.8	2.53	<2	<10	<10	<0.5	<2	0.59	1.1	121	100
X948480	1.89	0.010	0.076	0.006	<0.2	2.03	<2	<10	10	<0.5	<2	1.59	<0.5	35	34
X948481	3.30	0.009	0.090	0.100	1.2	1.76	<2	<10	20	<0.5	<2	0.80	<0.5	389	57
X948482	2.72	0.041	0.093	0.061	1.1	1.57	<2	<10	10	<0.5	<2	1.17	0.7	265	62
X948483	1.08	<0.001	<0.005	<0.001	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1
X948484	2.92	0.047	0.249	0.141	1.1	1.05	4	<10	10	<0.5	4	0.68	<0.5	659	67
X948485	2.55	3.11	0.110	0.213	0.6	1.05	6	<10	40	<0.5	5	0.38	<0.5	1060	76
X948486	4.14	0.002	<0.005	0.008	0.2	1.47	3	<10	10	<0.5	<2	0.91	<0.5	41	38
X948487	3.38	<0.001	<0.005	0.001	<0.2	1.30	<2	<10	10	<0.5	<2	1.05	<0.5	11	34
X948488	2.60	<0.001	<0.005	0.001	<0.2	2.34	<2	<10	10	<0.5	<2	1.14	<0.5	12	53
X948489	1.43	0.170	<0.005	<0.001	<0.2	2.02	<2	<10	10	<0.5	2	1.00	<0.5	10	46
X948490	1.90	0.030	0.115	0.063	1.1	1.34	<2	<10	<10	<0.5	3	0.64	<0.5	252	42

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

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948451		55	4.00	10	<1	0.05	<10	3.14	505	<1	0.04	142	340	<2	0.05	<2
X948452		3	7.82	10	<1	0.05	<10	3.24	985	<1	0.01	85	450	<2	<0.01	2
X948453		16	7.25	10	<1	0.04	<10	3.33	891	<1	0.02	102	510	2	0.08	<2
X948454		2	6.66	10	<1	0.02	10	3.00	945	<1	0.02	89	480	2	<0.01	2
X948455		20	7.22	10	<1	0.01	<10	2.77	1280	<1	0.01	88	390	3	0.18	<2
X948456		210	2.39	<10	1	0.01	<10	0.36	200	<1	0.02	66	340	<2	0.48	<2
X948457		343	5.05	10	<1	0.06	<10	1.81	554	<1	0.05	83	500	<2	0.73	<2
X948458		125	0.76	<10	<1	0.01	<10	0.13	93	1	<0.01	8	20	2	0.18	<2
X948459		697	8.06	10	<1	0.10	10	2.71	671	2	0.02	92	360	6	1.04	<2
X948460		771	2.54	<10	<1	0.03	10	1.54	410	5	0.01	60	760	3	0.43	<2
X948461		9	5.83	10	<1	0.10	30	6.49	1045	<1	0.01	283	2000	3	0.08	<2
X948462		49	5.34	10	<1	0.09	<10	2.21	720	<1	0.04	56	420	<2	0.10	<2
X948463		433	3.81	<10	<1	0.04	<10	1.60	462	<1	0.10	516	310	<2	0.40	<2
X948464		7	0.08	<10	<1	<0.01	<10	0.76	104	<1	<0.01	4	70	2	<0.01	<2
X948465		6470	7.27	<10	<1	0.02	10	1.74	468	<1	0.02	3320	320	2	2.56	<2
X948466		5130	4.69	<10	<1	0.04	<10	1.39	373	<1	0.04	1620	320	<2	1.51	<2
X948467		2550	3.80	<10	<1	0.04	<10	1.16	329	<1	0.04	1340	280	<2	1.16	<2
X948468		2830	6.53	<10	<1	0.04	<10	1.24	344	<1	0.04	3550	270	2	2.48	<2
X948469		2430	3.38	10	<1	0.42	10	0.55	214	8	0.35	2260	1790	14	1.19	<2
X948470		1890	4.72	<10	<1	0.05	<10	1.35	387	<1	0.05	1810	310	<2	1.47	<2
X948471		3160	7.47	<10	<1	0.07	<10	1.31	381	<1	0.04	4250	310	<2	2.83	<2
X948472		2250	10.00	<10	<1	0.07	<10	1.50	427	<1	0.04	6340	240	<2	3.65	<2
X948473		54	3.09	10	<1	0.08	10	1.73	471	1	0.04	284	550	<2	0.13	<2
X948474		4	1.39	<10	<1	0.10	10	0.79	208	1	0.07	72	540	<2	<0.01	<2
X948475		73	1.71	<10	<1	0.08	10	0.88	230	1	0.08	107	520	<2	0.04	<2
X948476		4100	7.03	<10	<1	0.06	<10	1.50	421	<1	0.07	3110	300	<2	2.28	<2
X948477		4100	21.6	<10	<1	0.05	<10	0.64	191	1	0.05	>10000	340	<2	7.69	<2
X948478		1570	24.0	<10	<1	0.02	<10	1.14	298	<1	0.03	>10000	200	2	7.18	<2
X948479		>10000	7.92	<10	<1	0.01	<10	2.14	600	<1	0.04	2290	320	<2	2.14	<2
X948480		271	2.04	<10	1	0.03	<10	0.61	208	<1	0.25	606	420	<2	0.47	2
X948481		4620	13.20	<10	<1	0.15	<10	1.34	348	<1	0.08	8510	210	2	4.57	<2
X948482		4330	9.34	<10	<1	0.08	<10	1.03	338	<1	0.13	5520	300	<2	3.52	<2
X948483		22	0.12	<10	<1	<0.01	<10	1.06	113	<1	<0.01	30	100	3	0.02	<2
X948484		6130	20.4	<10	<1	0.08	<10	0.81	265	<1	0.09	>10000	200	<2	7.02	<2
X948485		3510	30.7	<10	<1	0.24	<10	0.76	200	<1	0.05	>10000	140	<2	8.02	<2
X948486		968	2.93	<10	<1	0.05	10	0.97	261	<1	0.10	745	560	<2	0.66	<2
X948487		21	1.75	<10	<1	0.04	<10	0.83	257	<1	0.09	106	440	<2	0.02	<2
X948488		54	3.19	<10	<1	0.03	10	1.77	436	<1	0.04	131	470	<2	0.01	<2
X948489		210	2.86	<10	<1	0.04	10	1.50	386	<1	0.05	94	580	<2	0.03	2
X948490		>10000	9.28	<10	<1	0.02	<10	0.97	244	<1	0.05	5650	430	<2	3.59	<2

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

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description	Method Analyte Units LOD	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001	Ni-OG46 Ni % 0.001	S-IR08 S % 0.01
X948451		2	24	<20	0.10	<10	<10	37	<10	51			
X948452		32	100	<20	0.14	<10	<10	251	<10	65			
X948453		31	128	<20	0.09	<10	<10	208	<10	66			
X948454		31	111	<20	0.09	<10	<10	216	<10	62			
X948455		31	166	<20	0.08	<10	<10	210	<10	64			
X948456		5	25	<20	0.29	<10	<10	59	<10	12			
X948457		7	21	<20	0.18	<10	<10	105	<10	48			
X948458		1	6	<20	0.01	<10	<10	8	<10	19			
X948459		18	70	<20	0.02	<10	<10	152	<10	122			
X948460		5	142	<20	<0.01	<10	<10	37	<10	29			
X948461		18	644	<20	0.02	<10	<10	113	<10	87			
X948462		14	60	<20	0.13	<10	<10	131	<10	51			
X948463		5	13	<20	0.17	<10	<10	70	<10	40			
X948464		<1	80	<20	<0.01	<10	<10	<1	<10	3			
X948465		2	9	<20	0.10	<10	<10	35	<10	84			
X948466		3	10	<20	0.13	<10	<10	44	<10	82			
X948467		3	10	<20	0.13	<10	<10	36	<10	65			
X948468		3	8	<20	0.12	<10	<10	36	<10	58			
X948469		3	115	<20	0.17	<10	<10	174	<10	51			
X948470		3	10	<20	0.13	<10	<10	46	<10	47			
X948471		3	9	<20	0.11	<10	<10	41	<10	60			
X948472		3	7	<20	0.12	<10	<10	41	<10	52			
X948473		3	11	<20	0.12	<10	<10	47	<10	31			
X948474		1	12	<20	0.10	<10	<10	19	<10	16			
X948475		2	12	<20	0.11	<10	<10	22	<10	18			
X948476		3	8	<20	0.10	<10	<10	43	<10	68			
X948477		2	6	<20	0.08	10	<10	25	<10	42		1.630	
X948478		2	3	<20	0.07	<10	<10	34	<10	25		1.775	
X948479		3	6	<20	0.11	<10	<10	59	<10	136	1.230		
X948480		3	41	<20	0.08	<10	<10	30	<10	16			
X948481		3	8	<20	0.10	<10	<10	33	<10	47			
X948482		4	12	<20	0.09	<10	<10	37	<10	53			
X948483		<1	82	<20	<0.01	<10	<10	<1	<10	3			
X948484		3	3	<20	0.06	<10	<10	29	<10	47		1.495	
X948485		2	2	<20	0.08	<10	<10	31	<10	30		2.39	
X948486		3	12	<20	0.11	<10	<10	31	<10	32			
X948487		2	12	<20	0.10	<10	<10	28	<10	17			
X948488		2	22	<20	0.19	<10	<10	37	<10	24			
X948489		3	15	<20	0.18	<10	<10	42	<10	26			
X948490		2	12	<20	0.13	<10	<10	27	<10	74	1.170		

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

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
X948491		3.30	0.023	0.600	0.197	1.3	0.76	6	<10	<10	<0.5	7	0.47	<0.5	1175	68
X948492		0.06	0.049	0.098	0.145	1.3	0.56	3	<10	20	<0.5	6	0.34	<0.5	664	35
X948493		2.30	0.053	0.014	0.004	<0.2	1.19	<2	<10	30	<0.5	<2	0.81	<0.5	68	43
X948494		2.77	0.400	0.294	0.117	3.4	1.14	3	<10	10	<0.5	5	0.57	<0.5	695	69
X948495		2.32	0.032	0.130	0.056	1.8	1.53	2	<10	10	<0.5	<2	0.80	<0.5	201	59
X948496		3.18	0.001	<0.005	0.001	<0.2	1.35	2	<10	20	<0.5	<2	1.00	<0.5	13	37
X948497		2.65	0.041	0.044	0.008	0.6	1.93	<2	<10	10	<0.5	<2	1.33	0.7	44	41
X948498		2.31	0.005	<0.005	0.002	<0.2	1.87	2	<10	10	<0.5	<2	1.55	<0.5	18	43
X948499		2.57	0.002	<0.005	0.002	<0.2	1.49	<2	<10	10	<0.5	<2	1.38	<0.5	19	34
X948500		1.80	0.010	<0.005	0.004	0.2	1.48	<2	<10	<10	<0.5	<2	1.49	<0.5	28	34
X948501		3.14	0.003	<0.005	0.003	<0.2	1.56	<2	<10	10	<0.5	<2	1.54	<0.5	24	33
X948502		2.53	0.004	0.005	0.004	0.2	1.61	<2	<10	10	<0.5	<2	1.82	<0.5	38	34
X948503		2.89	0.001	<0.005	0.001	<0.2	1.52	4	<10	<10	<0.5	<2	1.47	<0.5	49	35
X948504		2.65	<0.001	<0.005	0.001	0.3	2.09	<2	<10	10	<0.5	<2	1.37	0.9	40	44
X948505		3.16	0.001	<0.005	0.001	<0.2	4.31	3	<10	<10	<0.5	<2	5.88	<0.5	39	98
X948506		3.59	<0.001	<0.005	0.001	<0.2	2.50	16	<10	10	<0.5	<2	5.88	<0.5	32	77
X948507		3.65	0.001	<0.005	0.001	<0.2	2.54	17	<10	10	<0.5	<2	5.97	<0.5	46	75
X948508		2.54	<0.001	<0.005	0.001	<0.2	4.05	<2	<10	<10	<0.5	<2	5.52	<0.5	39	101
X948509		2.17	<0.001	<0.005	0.001	<0.2	4.32	2	<10	<10	<0.5	<2	5.70	<0.5	31	105
X948510		2.44	<0.001	<0.005	0.001	<0.2	1.23	2	<10	<10	<0.5	<2	0.98	<0.5	22	36
X948511		1.03	<0.001	<0.005	0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1
X948512		2.28	<0.001	<0.005	<0.001	<0.2	1.34	<2	<10	<10	<0.5	<2	1.18	<0.5	31	42
X948513		3.62	0.274	<0.005	0.001	1.3	0.51	258	10	20	<0.5	<2	8.8	3.4	49	11
X948514		3.84	0.015	<0.005	0.001	<0.2	0.84	84	10	10	<0.5	<2	6.7	<0.5	56	32

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948491		4580	32.9	<10	<1	0.03	<10	0.44	129	1	0.06	>10000	190	2	8.59	<2
X948492		>10000	36.8	<10	<1	0.16	20	0.13	175	2	0.10	>10000	520	4	>10.0	<2
X948493		637	2.75	<10	<1	0.12	10	0.82	256	<1	0.10	327	410	<2	0.51	<2
X948494		>10000	18.70	<10	<1	0.05	<10	0.78	243	<1	0.06	>10000	260	<2	7.39	<2
X948495		9050	7.55	<10	<1	0.05	<10	1.00	283	<1	0.10	4090	270	<2	2.87	<2
X948496		149	1.81	<10	<1	0.08	10	0.74	221	<1	0.12	117	380	<2	0.07	<2
X948497		3150	4.15	<10	<1	0.04	<10	1.31	418	<1	0.09	601	240	<2	0.70	<2
X948498		606	3.38	10	<1	0.05	<10	1.23	432	<1	0.12	74	420	<2	0.09	<2
X948499		137	2.96	<10	<1	0.04	<10	0.99	396	<1	0.15	178	500	<2	0.14	<2
X948500		442	3.24	<10	<1	0.03	<10	0.95	386	<1	0.14	290	480	<2	0.30	<2
X948501		230	2.86	<10	<1	0.04	<10	0.93	381	<1	0.16	219	440	<2	0.23	2
X948502		331	3.63	<10	<1	0.04	<10	0.92	396	<1	0.15	338	610	<2	0.51	<2
X948503		286	3.59	<10	<1	0.03	<10	1.14	409	<1	0.10	74	480	<2	0.74	3
X948504		184	3.65	<10	<1	0.03	<10	1.47	421	<1	0.15	93	440	10	0.73	<2
X948505		62	8.16	10	<1	0.01	<10	3.27	1220	<1	0.02	76	490	<2	0.16	2
X948506		16	7.40	10	<1	0.05	<10	3.57	1250	<1	0.04	83	370	<2	0.04	3
X948507		84	7.93	10	<1	0.05	<10	3.49	1250	<1	0.04	89	380	<2	0.31	<2
X948508		77	7.98	10	<1	0.01	<10	3.67	1200	<1	0.02	78	420	<2	0.23	<2
X948509		48	7.34	10	<1	0.01	<10	3.58	1220	<1	0.02	70	410	<2	0.13	<2
X948510		95	2.49	<10	<1	0.01	<10	0.90	282	<1	0.08	75	420	<2	0.47	2
X948511		11	0.09	<10	2	<0.01	<10	0.82	100	<1	<0.01	3	70	<2	0.01	<2
X948512		177	2.96	<10	<1	0.01	<10	1.02	305	<1	0.07	80	430	<2	0.70	2
X948513		277	8.00	<10	<1	0.13	<10	3.41	1585	<1	0.01	98	340	35	2.76	3
X948514		259	6.83	<10	1	0.11	<10	2.90	1120	<1	0.02	87	370	12	2.13	2

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Ni-OG46	S-IR08
	Analyte	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	Ni	S
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOD	1	1	20	0.01	10	10	1	10	2	0.001	0.001	0.01
X948491		2	3	<20	0.05	<10	<10	27	<10	21		2.66	
X948492		3	17	<20	0.09	<10	<10	61	<10	49	1.005	2.06	24.4
X948493		3	8	<20	0.11	<10	<10	35	<10	43			
X948494		2	6	<20	0.09	<10	<10	33	<10	142	1.500	1.230	
X948495		3	10	<20	0.10	<10	<10	41	<10	68			
X948496		3	15	<20	0.11	<10	<10	32	<10	22			
X948497		4	14	<20	0.16	<10	<10	64	<10	77			
X948498		6	12	<20	0.18	<10	<10	77	<10	38			
X948499		7	10	<20	0.18	<10	<10	75	<10	30			
X948500		7	10	<20	0.16	<10	<10	75	<10	31			
X948501		7	13	<20	0.20	<10	<10	68	<10	29			
X948502		8	12	<20	0.25	<10	<10	69	<10	35			
X948503		6	10	<20	0.22	<10	<10	78	<10	31			
X948504		7	21	<20	0.19	<10	<10	77	<10	279			
X948505		28	68	<20	0.03	<10	<10	214	<10	72			
X948506		17	62	<20	<0.01	<10	<10	120	<10	61			
X948507		18	68	<20	<0.01	<10	<10	126	<10	62			
X948508		27	48	<20	0.01	<10	<10	214	<10	64			
X948509		27	44	<20	0.05	<10	<10	222	<10	63			
X948510		3	10	<20	0.21	<10	<10	46	<10	27			
X948511		<1	78	<20	<0.01	<10	<10	1	<10	3			
X948512		4	12	<20	0.22	<10	<10	52	<10	33			
X948513		6	79	<20	0.02	<10	<10	19	<10	743			
X948514		8	55	<20	0.01	<10	<10	43	<10	53			

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To: **PANCONTINENTAL RESOURCES**
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RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19235856

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Cu-OG46	ME-ICP41	ME-OG46	Ni-OG46
	PGM-ICP23	S-IR08		

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 9-OCT-2019
Account: PRPKNHJI

CERTIFICATE TM19238128

Project: St. Laurent

This report is for 33 Drill Core samples submitted to our lab in Timmins, ON, Canada on 23-SEP-2019.

The following have access to data associated with this certificate:

LAYTON CROFT	TODD KEAST	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize split to 85% <75 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

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

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 9-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19238128

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
X948515		2.35	0.046	<0.005	<0.001	0.2	2.22	15	<10	10	<0.5	<2	6.86	<0.5	29	225
X948516		2.43	0.001	<0.005	<0.001	<0.2	2.17	<2	<10	10	<0.5	<2	6.50	<0.5	23	242
X948517		2.46	<0.001	<0.005	<0.001	<0.2	2.77	<2	<10	10	<0.5	<2	6.38	<0.5	44	287
X948518		2.40	<0.001	<0.005	<0.001	0.2	3.56	<2	<10	10	<0.5	<2	5.79	<0.5	43	328
X948519		2.07	0.006	<0.005	<0.001	0.2	1.89	<2	<10	10	<0.5	<2	10.9	<0.5	17	58
X948520		2.47	0.002	<0.005	<0.001	0.2	3.32	<2	<10	30	<0.5	<2	4.63	<0.5	34	111
X948521		3.29	0.008	<0.005	<0.001	0.2	2.82	8	<10	20	<0.5	<2	7.2	<0.5	35	67
X948522		2.60	0.001	<0.005	<0.001	<0.2	4.18	<2	<10	<10	<0.5	<2	4.47	<0.5	37	134
X948523		3.31	<0.001	<0.005	0.001	0.3	4.19	<2	<10	<10	<0.5	<2	5.32	<0.5	38	130
X948524		3.60	0.001	<0.005	<0.001	0.2	4.60	<2	<10	<10	<0.5	<2	4.40	<0.5	40	123
X948525		3.40	<0.001	<0.005	<0.001	0.2	3.68	<2	<10	<10	<0.5	<2	7.1	<0.5	33	103
X948526		3.57	<0.001	<0.005	<0.001	0.2	3.60	<2	<10	<10	<0.5	<2	7.2	<0.5	34	101
X948527		2.22	<0.001	<0.005	<0.001	0.2	3.56	<2	<10	<10	<0.5	<2	4.68	<0.5	30	94
X948528		3.63	<0.001	<0.005	<0.001	0.3	2.40	<2	<10	10	<0.5	<2	5.23	<0.5	38	76
X948529		1.15	<0.001	<0.005	<0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948530		3.54	0.001	<0.005	<0.001	0.3	2.65	<2	<10	<10	<0.5	<2	5.41	<0.5	38	86
X948531		3.32	<0.001	<0.005	<0.001	<0.2	1.59	<2	<10	20	<0.5	<2	6.19	<0.5	33	41
X948532		2.47	<0.001	<0.005	<0.001	1.3	1.63	15	<10	20	<0.5	<2	6.56	0.5	58	195
X948533		2.83	<0.001	<0.005	<0.001	0.9	2.29	7	<10	10	<0.5	<2	5.71	<0.5	49	93
X948534		2.47	<0.001	<0.005	<0.001	<0.2	4.37	<2	<10	<10	<0.5	<2	5.18	<0.5	41	107
X948535		0.05	0.212	0.194	0.129	0.9	1.81	57	10	140	<0.5	<2	1.39	<0.5	44	251
X948536		2.43	<0.001	<0.005	0.001	<0.2	3.24	<2	<10	<10	<0.5	<2	3.37	<0.5	37	84
X948537		2.38	0.002	<0.005	0.001	0.2	1.34	3	<10	<10	<0.5	<2	1.50	<0.5	24	32
X948538		2.33	<0.001	<0.005	0.001	<0.2	1.84	2	<10	<10	<0.5	<2	1.23	<0.5	19	45
X948539		3.64	0.002	<0.005	0.001	0.3	1.86	8	10	<10	<0.5	<2	2.21	0.5	76	90
X948540		2.24	0.006	<0.005	0.001	0.5	1.49	12	<10	<10	<0.5	<2	0.81	0.5	131	71
X948541		2.12	0.016	<0.005	0.001	1.0	1.45	17	10	10	<0.5	<2	0.94	<0.5	186	64
X948542		1.07	0.002	<0.005	<0.001	0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1
X948543		2.95	0.018	<0.005	0.001	0.4	0.97	9	<10	10	<0.5	<2	1.00	<0.5	153	51
X948544		2.55	0.001	<0.005	0.001	<0.2	0.97	3	<10	10	<0.5	<2	1.06	<0.5	51	49
X948545		2.85	0.002	<0.005	0.001	<0.2	0.49	4	<10	<10	<0.5	<2	1.16	<0.5	44	24
X948546		1.30	0.021	<0.005	0.001	<0.2	0.07	<2	<10	<10	<0.5	<2	1.37	<0.5	1	14
X948547		2.28	0.006	<0.005	0.001	0.2	3.72	3	<10	<10	<0.5	<2	9.6	0.7	34	123

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

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 9-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19238128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948515		73	5.45	10	1	0.06	10	4.71	1300	1	0.02	110	190	<2	0.18	<2
X948516		55	5.14	10	<1	0.06	<10	4.56	1285	<1	0.04	115	170	<2	<0.01	<2
X948517		58	5.49	10	<1	0.06	<10	4.66	1195	<1	0.03	116	170	<2	0.08	<2
X948518		24	5.54	10	<1	0.04	<10	4.47	993	<1	0.02	117	160	<2	0.07	<2
X948519		16	4.03	10	<1	0.03	<10	1.22	994	<1	0.02	55	240	<2	<0.01	<2
X948520		32	6.91	10	<1	0.11	<10	2.09	787	<1	0.02	107	460	<2	0.03	<2
X948521		131	5.29	10	1	0.09	10	2.08	952	<1	0.02	75	350	2	0.11	<2
X948522		7	7.74	20	1	<0.01	<10	3.49	963	1	0.03	71	470	<2	0.05	<2
X948523		38	7.85	20	<1	<0.01	<10	3.63	1065	<1	0.02	77	420	<2	0.05	<2
X948524		37	8.37	10	1	0.01	<10	3.83	1070	<1	0.02	90	410	<2	0.03	2
X948525		40	6.87	10	1	0.01	<10	2.85	1135	<1	0.02	106	330	<2	0.01	<2
X948526		2	6.89	10	1	0.01	<10	3.13	1120	1	0.02	88	320	<2	<0.01	<2
X948527		9	6.73	10	1	0.01	10	3.39	969	<1	0.02	73	480	<2	<0.01	<2
X948528		69	7.72	10	1	0.06	<10	3.10	1200	3	0.02	69	370	<2	0.12	<2
X948529		3	0.10	<10	1	<0.01	<10	1.00	111	<1	0.01	13	70	<2	<0.01	<2
X948530		79	8.02	10	1	0.02	<10	3.37	1375	<1	0.03	59	430	<2	0.10	2
X948531		225	6.73	10	1	0.09	<10	2.82	1175	1	0.02	74	480	<2	0.15	<2
X948532		82	5.74	10	<1	0.07	10	3.65	999	<1	0.02	167	850	9	0.33	<2
X948533		98	6.26	10	<1	0.05	10	3.60	1105	<1	0.03	115	770	6	0.13	<2
X948534		36	8.03	10	<1	<0.01	<10	3.73	1170	<1	0.02	88	390	<2	0.04	<2
X948535		2300	3.18	10	<1	0.39	10	0.52	208	8	0.33	2190	1720	15	1.14	2
X948536		98	6.25	10	<1	0.01	<10	2.76	802	<1	0.04	76	410	<2	0.14	<2
X948537		406	2.94	<10	<1	0.01	<10	1.06	336	<1	0.03	31	460	2	0.32	<2
X948538		15	3.27	<10	<1	0.02	<10	1.71	395	<1	0.06	38	440	<2	0.01	<2
X948539		244	5.99	10	<1	0.01	<10	1.15	808	1	0.05	71	430	<2	1.00	<2
X948540		1175	6.50	10	<1	0.02	<10	0.76	502	<1	0.07	101	390	<2	2.19	<2
X948541		5590	7.50	<10	<1	0.03	<10	0.64	416	<1	0.10	132	420	<2	3.60	<2
X948542		14	0.14	<10	<1	<0.01	<10	1.78	133	<1	0.01	<1	80	<2	0.01	2
X948543		884	5.15	<10	<1	0.03	<10	0.51	293	1	0.10	123	340	<2	2.67	<2
X948544		413	3.59	<10	<1	0.03	<10	0.45	314	<1	0.09	64	410	2	0.90	<2
X948545		362	2.41	<10	<1	0.01	<10	0.19	170	<1	0.05	86	390	<2	0.99	<2
X948546		4	0.32	<10	<1	<0.01	<10	0.04	103	<1	0.02	2	10	<2	<0.01	<2
X948547		115	7.60	10	<1	0.02	<10	2.70	1555	11	0.01	88	290	<2	0.27	<2

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RICHMOND HILL ON L4C 0V7

Finalized Date: 9-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19238128

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	1	20	0.01	10	10	1	10	2
X948515		11	84	<20	<0.01	<10	<10	66	<10	38
X948516		10	64	<20	<0.01	<10	<10	58	<10	33
X948517		14	67	<20	<0.01	<10	<10	82	<10	41
X948518		16	61	<20	0.01	<10	<10	108	<10	50
X948519		15	97	<20	0.14	<10	<10	113	<10	31
X948520		22	40	<20	0.10	<10	<10	188	<10	51
X948521		14	64	<20	0.13	<10	<10	113	<10	71
X948522		31	54	<20	0.12	<10	<10	287	<10	79
X948523		33	59	<20	0.17	<10	<10	268	<10	81
X948524		32	53	<20	0.20	<10	<10	262	<10	88
X948525		26	75	<20	0.15	<10	<10	200	<10	70
X948526		26	73	<20	0.19	<10	<10	190	<10	76
X948527		27	67	<20	0.10	<10	<10	215	<10	77
X948528		15	64	<20	0.01	<10	<10	116	<10	77
X948529		<1	71	<20	<0.01	<10	<10	1	<10	3
X948530		23	47	<20	0.01	<10	<10	171	<10	81
X948531		10	86	<20	<0.01	<10	<10	56	<10	60
X948532		12	198	<20	<0.01	<10	<10	60	<10	66
X948533		17	113	<20	0.01	<10	<10	104	<10	61
X948534		31	65	<20	0.02	<10	<10	238	<10	72
X948535		3	107	<20	0.17	<10	<10	170	<10	51
X948536		18	44	<20	0.15	<10	<10	173	<10	58
X948537		4	8	<20	0.11	<10	<10	59	<10	32
X948538		6	10	<20	0.20	<10	<10	83	<10	34
X948539		6	8	<20	0.13	<10	<10	85	<10	36
X948540		7	6	<20	0.21	<10	<10	87	<10	33
X948541		9	7	<20	0.18	<10	<10	88	<10	43
X948542		<1	81	<20	<0.01	<10	<10	1	<10	2
X948543		7	6	<20	0.20	<10	<10	72	<10	28
X948544		6	7	<20	0.21	<10	<10	65	<10	23
X948545		4	8	<20	0.22	<10	<10	39	<10	25
X948546		1	3	<20	<0.01	<10	<10	4	<10	6
X948547		19	47	<20	0.12	<10	<10	201	<10	103

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Finalized Date: 9-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19238128

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	ME-ICP41	PGM-ICP23

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

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To: **PANCONTINENTAL RESOURCES**
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Finalized Date: 23-OCT-2019
Account: PRPKNHJI

CERTIFICATE TM19244539

Project: ST. LAURENT

This report is for 145 Drill Core samples submitted to our lab in Timmins, ON, Canada on 27-SEP-2019.

The following have access to data associated with this certificate:

LAYTON CROFT	TODD KEAST	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize up to 250g 85% <75 um
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
Ni-OG46	Ore Grade Ni - Aqua Regia	

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

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

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 23-OCT-2019
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Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Pt	Pd	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr
	Units	kg	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.001	0.005	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
X948548		1.23	0.005	<0.005	<0.001	1.0	1.69	3	<10	<10	<0.5	2	1.15	0.6	34	35
X948549		2.63	<0.001	<0.005	<0.001	0.3	1.77	<2	<10	<10	<0.5	<2	2.01	<0.5	22	40
X948550		1.27	0.001	<0.005	<0.001	0.2	1.27	<2	<10	<10	<0.5	2	0.96	<0.5	27	41
X948551		2.30	0.010	<0.005	0.001	0.3	2.87	4	<10	10	<0.5	<2	4.59	<0.5	54	166
X948552		2.33	0.016	<0.005	0.003	1.1	3.42	4	<10	30	<0.5	3	7.34	<0.5	92	451
X948553		1.32	<0.001	<0.005	<0.001	0.2	0.05	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	6
X948554		2.27	0.001	<0.005	<0.001	0.3	2.07	3	<10	20	<0.5	<2	4.07	<0.5	30	62
X948555		2.61	0.006	<0.005	0.003	0.4	4.62	<2	<10	<10	<0.5	<2	4.27	<0.5	85	779
X948556		2.31	<0.001	<0.005	0.003	0.4	3.77	<2	<10	120	0.5	<2	5.75	<0.5	59	1225
X948557		2.23	0.009	<0.005	0.005	0.9	1.77	2	<10	10	<0.5	<2	3.18	<0.5	26	79
X948558		2.41	0.002	0.006	0.014	0.4	2.54	<2	<10	20	<0.5	<2	6.06	<0.5	43	172
X948559		1.18	0.003	0.006	0.013	0.2	2.68	<2	<10	10	<0.5	<2	6.33	<0.5	41	150
X948560		2.82	0.005	<0.005	0.005	0.5	2.10	2	<10	30	<0.5	<2	3.73	<0.5	22	70
X948561		2.54	0.003	<0.005	<0.001	0.5	0.44	16	<10	10	<0.5	<2	8.3	<0.5	36	22
X948562		2.59	0.004	<0.005	<0.001	0.9	1.35	4	<10	10	<0.5	<2	2.84	<0.5	39	45
X948563		3.64	0.001	<0.005	0.003	0.3	1.18	<2	<10	10	<0.5	<2	1.41	<0.5	30	54
X948564		1.70	0.007	<0.005	0.006	0.4	1.11	<2	<10	<10	<0.5	<2	1.31	<0.5	34	56
X948565		2.66	0.025	0.059	0.063	1.0	2.56	<2	<10	<10	<0.5	3	1.86	<0.5	263	269
X948566		0.06	0.211	0.200	0.124	1.1	1.91	58	10	150	<0.5	5	1.47	<0.5	46	275
X948567		2.78	0.394	0.059	0.037	1.0	0.96	<2	<10	<10	<0.5	2	6.66	0.5	170	65
X948568		2.82	0.023	0.051	0.033	0.8	0.74	<2	<10	<10	<0.5	3	1.12	<0.5	126	32
X948569		2.65	0.037	0.034	0.024	1.2	0.77	<2	<10	<10	<0.5	3	1.22	<0.5	136	46
X948570		2.60	0.016	0.009	0.012	0.7	0.94	<2	<10	<10	<0.5	<2	1.66	<0.5	88	58
X948571		2.87	0.014	0.006	0.007	0.7	0.66	<2	<10	<10	<0.5	2	1.49	<0.5	45	25
X948572		1.29	0.010	0.066	0.059	0.7	0.61	<2	<10	<10	<0.5	2	1.01	<0.5	255	35
X948573		2.34	0.015	0.008	0.012	0.8	0.54	<2	<10	<10	<0.5	2	1.30	<0.5	114	26
X948574		1.71	0.015	0.007	0.012	0.9	0.76	<2	<10	<10	<0.5	2	1.19	<0.5	125	38
X948575		1.31	0.033	0.137	0.132	1.5	0.49	<2	<10	<10	<0.5	3	0.62	<0.5	544	53
X948576		0.06	0.052	0.096	0.152	1.4	0.59	<2	<10	30	<0.5	10	0.39	<0.5	732	38
X948577		2.01	0.011	0.020	0.020	0.9	0.57	<2	<10	<10	<0.5	2	1.20	<0.5	88	27
X948578		2.56	0.005	0.027	0.015	0.5	0.82	<2	<10	<10	<0.5	<2	1.28	<0.5	98	52
X948579		3.65	0.003	0.014	0.010	0.6	1.09	<2	<10	<10	<0.5	3	2.66	<0.5	62	58
X948580		2.11	0.010	<0.005	0.005	0.7	0.58	<2	<10	<10	<0.5	3	1.39	<0.5	101	25
X948581		0.96	<0.001	<0.005	<0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948582		2.15	0.012	<0.005	0.007	0.6	0.58	<2	<10	<10	<0.5	<2	1.92	0.5	137	23
X948583		4.17	0.012	0.013	0.009	0.7	0.72	<2	<10	<10	<0.5	<2	1.51	<0.5	143	31
X948584		3.04	0.008	<0.005	0.011	0.4	0.73	<2	<10	<10	<0.5	<2	0.95	0.5	106	29
X948585		2.82	0.010	0.026	0.028	0.5	0.87	<2	<10	<10	<0.5	<2	0.83	<0.5	105	55
X948586		4.14	0.010	<0.005	0.006	0.4	0.56	<2	<10	<10	<0.5	<2	1.25	<0.5	74	23
X948587		2.13	0.003	0.029	0.020	0.3	0.84	<2	<10	<10	<0.5	<2	1.08	<0.5	100	46

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CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948548		1365	4.36	<10	<1	0.02	<10	1.28	441	<1	0.11	44	540	3	0.65	<2
X948549		152	3.34	<10	<1	0.03	<10	1.13	462	<1	0.14	51	460	<2	0.18	<2
X948550		209	3.08	<10	<1	0.02	<10	0.96	396	<1	0.10	64	470	<2	0.35	<2
X948551		305	9.08	10	<1	0.02	<10	3.26	1180	<1	0.04	74	440	<2	0.61	<2
X948552		873	10.65	10	1	0.08	<10	5.96	1600	6	0.02	339	520	<2	2.11	<2
X948553		4	0.18	<10	<1	0.01	<10	1.24	129	<1	0.01	15	70	<2	0.01	<2
X948554		179	4.96	10	<1	0.08	10	3.47	934	2	0.04	117	770	<2	0.16	<2
X948555		458	8.95	20	<1	0.01	10	6.96	1045	1	0.02	455	460	<2	1.84	<2
X948556		86	7.29	10	<1	0.75	<10	7.27	1345	<1	0.01	596	270	<2	0.16	<2
X948557		360	4.21	10	<1	0.04	10	1.62	630	1	0.05	51	230	<2	0.44	<2
X948558		137	7.20	10	<1	0.05	<10	3.87	1295	<1	0.05	117	180	<2	0.05	<2
X948559		86	6.90	10	1	0.04	<10	3.66	1290	<1	0.04	111	160	<2	0.14	<2
X948560		118	4.43	10	<1	0.10	10	1.67	651	1	0.03	44	220	<2	0.41	<2
X948561		53	7.62	<10	<1	0.03	<10	1.90	1350	<1	0.09	88	340	<2	0.26	<2
X948562		341	4.55	<10	<1	0.02	<10	1.00	678	<1	0.06	47	720	<2	0.67	<2
X948563		182	2.67	<10	<1	0.03	<10	0.54	370	<1	0.09	394	420	<2	0.39	<2
X948564		481	2.74	<10	<1	0.02	<10	0.59	350	<1	0.07	577	390	<2	0.55	<2
X948565		1820	13.05	<10	<1	<0.01	<10	2.02	785	<1	0.04	6650	230	<2	4.33	<2
X948566		2380	3.36	10	<1	0.42	20	0.56	221	8	0.35	2220	1740	12	1.18	2
X948567		2250	5.21	<10	<1	<0.01	<10	0.60	558	<1	0.03	2290	350	<2	2.46	<2
X948568		1495	4.50	<10	<1	0.01	<10	0.34	212	<1	0.06	2540	410	<2	2.11	<2
X948569		2250	4.95	<10	<1	0.01	<10	0.42	230	<1	0.04	2640	370	<2	2.35	<2
X948570		1125	3.66	<10	<1	0.01	<10	0.49	281	<1	0.05	1440	370	<2	1.57	<2
X948571		1565	2.27	<10	<1	<0.01	<10	0.16	142	<1	0.03	892	410	<2	1.11	<2
X948572		1385	9.03	<10	<1	0.01	<10	0.29	177	<1	0.05	5040	340	<2	4.20	<2
X948573		2260	4.44	<10	<1	<0.01	<10	0.18	139	<1	0.03	2140	510	<2	2.30	<2
X948574		1915	5.21	<10	<1	0.01	<10	0.36	210	<1	0.05	2210	470	<2	2.44	<2
X948575		3820	19.15	<10	<1	0.01	<10	0.27	125	1	0.04	>10000	310	<2	7.31	<2
X948576		10000	35.5	<10	<1	0.16	20	0.14	243	2	0.10	>10000	520	6	>10.0	<2
X948577		2580	3.86	<10	<1	<0.01	<10	0.19	141	<1	0.04	1760	390	<2	2.07	<2
X948578		1020	4.40	<10	<1	0.01	<10	0.49	247	<1	0.05	1875	360	<2	1.94	<2
X948579		1460	3.86	<10	<1	0.01	<10	0.67	376	<1	0.04	1130	350	<2	1.47	<2
X948580		1715	4.63	<10	<1	<0.01	<10	0.21	160	<1	0.04	1595	500	<2	2.36	<2
X948581		9	0.11	<10	<1	<0.01	<10	1.20	126	1	<0.01	7	80	<2	0.01	2
X948582		1910	5.32	<10	<1	<0.01	<10	0.27	196	<1	0.02	2040	400	<2	2.66	<2
X948583		2020	5.59	<10	<1	0.01	<10	0.40	200	<1	0.03	1995	370	<2	2.71	<2
X948584		1525	4.99	<10	<1	0.01	<10	0.42	198	<1	0.04	1275	410	<2	2.32	<2
X948585		2470	5.28	<10	<1	0.01	<10	0.66	265	<1	0.04	2050	300	<2	2.38	<2
X948586		1450	3.55	<10	<1	<0.01	<10	0.20	141	<1	0.02	1030	400	<2	1.78	<2
X948587		1100	5.22	<10	<1	0.02	<10	0.52	230	<1	0.04	2180	400	<2	2.39	<2

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001	Ni-OG46 Ni % 0.001	S-IR08 S % 0.01
X948548		6	7	<20	0.17	<10	<10	69	<10	65			
X948549		7	17	<20	0.29	<10	<10	86	<10	42			
X948550		6	5	<20	0.20	<10	<10	69	<10	32			
X948551		32	51	<20	0.01	<10	<10	252	<10	100			
X948552		20	119	<20	0.01	<10	<10	147	<10	98			
X948553		<1	76	<20	<0.01	<10	<10	2	<10	2			
X948554		12	56	<20	<0.01	<10	<10	85	<10	46			
X948555		21	32	<20	0.01	<10	<10	180	<10	93			
X948556		21	104	<20	0.13	<10	<10	198	<10	79			
X948557		10	32	<20	<0.01	<10	<10	50	<10	39			
X948558		15	67	<20	<0.01	<10	<10	79	<10	73			
X948559		18	111	<20	<0.01	<10	<10	95	<10	68			
X948560		8	48	<20	<0.01	<10	<10	49	<10	47			
X948561		16	42	<20	<0.01	<10	<10	30	<10	45			
X948562		8	19	<20	0.15	<10	<10	55	<10	60			
X948563		6	11	<20	0.28	<10	<10	75	<10	25			
X948564		5	9	<20	0.25	<10	<10	72	<10	27			
X948565		5	7	<20	0.15	<10	<10	89	<10	106			
X948566		3	111	<20	0.18	<10	<10	176	<10	51			
X948567		3	10	<20	0.13	<10	<10	39	<10	82			
X948568		3	12	<20	0.17	<10	<10	35	<10	35			
X948569		3	10	<20	0.17	<10	<10	40	<10	51			
X948570		4	12	<20	0.18	<10	<10	44	<10	36			
X948571		3	13	<20	0.22	<10	<10	36	<10	28			
X948572		3	9	<20	0.13	<10	<10	27	<10	34			
X948573		3	9	<20	0.19	<10	<10	45	<10	21			
X948574		4	9	<20	0.23	<10	<10	58	<10	40			
X948575		2	6	<20	0.13	<10	<10	29	<10	54		1.080	
X948576		3	16	<20	0.10	<10	<10	61	<10	47	1.015	2.09	24.8
X948577		3	11	<20	0.21	<10	<10	37	<10	29			
X948578		3	9	<20	0.16	<10	<10	42	<10	27			
X948579		4	12	<20	0.18	<10	<10	52	<10	29			
X948580		4	9	<20	0.26	<10	<10	55	<10	24			
X948581		<1	77	<20	<0.01	<10	<10	<1	<10	2			
X948582		3	10	<20	0.18	<10	<10	39	<10	26			
X948583		3	10	<20	0.19	<10	<10	44	<10	30			
X948584		3	8	<20	0.20	<10	<10	43	<10	50			
X948585		3	7	<20	0.11	<10	<10	29	<10	34			
X948586		3	11	<20	0.21	<10	<10	43	<10	26			
X948587		3	10	<20	0.15	<10	<10	38	<10	23			

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1
X948588		3.41	0.005	<0.005	0.007	0.2	0.85	<2	<10	<10	<0.5	<2	1.66	<0.5	50	36
X948589		3.79	0.004	<0.005	0.001	0.2	1.38	<2	<10	<10	<0.5	<2	1.79	<0.5	60	51
X948590		3.09	0.001	<0.005	0.001	<0.2	2.65	<2	<10	10	<0.5	<2	5.97	<0.5	39	234
X948591		2.36	0.007	0.009	0.009	0.4	1.45	2	<10	10	<0.5	<2	6.43	<0.5	50	113
X948592		1.98	<0.001	<0.005	0.001	<0.2	3.07	<2	<10	10	<0.5	<2	7.1	<0.5	23	116
X948593		1.95	0.008	0.015	0.018	0.5	1.07	<2	<10	<10	<0.5	<2	1.03	<0.5	80	46
X948594		2.91	0.010	<0.005	0.008	0.4	1.01	2	<10	<10	<0.5	<2	1.17	<0.5	58	37
X948595		0.81	0.001	<0.005	<0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1
X948596		2.18	0.007	0.032	0.021	0.4	1.17	<2	<10	<10	<0.5	<2	0.80	<0.5	111	57
X948597		2.55	0.002	<0.005	0.005	0.3	1.13	<2	<10	10	<0.5	<2	1.09	<0.5	33	59
X948598		2.66	0.005	<0.005	0.005	0.3	1.62	2	<10	<10	<0.5	<2	1.05	<0.5	60	52
X948599		2.83	0.009	0.013	0.018	0.6	1.06	2	<10	<10	<0.5	<2	1.10	<0.5	128	40
X948600		3.54	0.013	0.015	0.020	0.6	0.63	2	<10	<10	<0.5	<2	1.15	<0.5	106	24
X948601		3.34	0.008	0.020	0.018	0.7	0.74	<2	<10	<10	<0.5	<2	2.19	1.3	126	29
X948602		2.93	0.002	<0.005	0.009	0.3	0.78	2	<10	<10	<0.5	<2	1.22	<0.5	47	34
X948603		2.67	0.013	0.015	0.021	0.6	1.03	<2	<10	<10	<0.5	<2	0.98	<0.5	93	40
X948604		0.06	0.220	0.202	0.131	0.9	1.89	58	10	150	<0.5	<2	1.46	<0.5	45	256
X948605		2.68	0.006	<0.005	0.006	0.3	1.59	2	<10	<10	<0.5	<2	0.73	<0.5	65	48
X948606		2.80	0.008	0.015	0.018	0.4	1.64	2	<10	<10	<0.5	<2	0.98	<0.5	112	56
X948607		2.97	0.012	0.036	0.031	0.5	1.08	<2	<10	<10	<0.5	<2	1.21	<0.5	141	40
X948608		2.73	0.009	0.056	0.041	0.7	1.04	3	<10	<10	<0.5	<2	1.28	0.6	220	54
X948609		2.69	0.010	0.031	0.030	0.5	1.00	<2	<10	<10	<0.5	<2	0.90	<0.5	124	29
X948610		2.68	0.008	0.027	0.022	0.4	0.60	<2	<10	<10	<0.5	<2	1.21	<0.5	100	28
X948611		2.61	0.009	0.018	0.014	0.4	1.14	<2	<10	<10	<0.5	<2	0.90	<0.5	79	32
X948612		2.35	0.009	0.021	0.020	0.5	2.39	3	<10	<10	<0.5	<2	3.61	<0.5	93	90
X948613		2.52	0.007	0.013	0.015	0.3	1.16	2	<10	10	<0.5	<2	1.04	<0.5	69	47
X948614		2.84	0.003	0.013	0.011	0.2	0.50	<2	<10	<10	<0.5	<2	1.25	<0.5	55	17
X948615		3.00	0.003	0.018	0.017	0.4	0.40	<2	<10	<10	<0.5	<2	2.05	<0.5	75	20
X948616		2.68	0.005	0.017	0.017	0.4	0.73	<2	<10	<10	<0.5	<2	1.22	<0.5	78	32
X948617		2.90	0.021	0.032	0.027	0.9	1.10	<2	<10	<10	<0.5	<2	0.90	<0.5	187	39
X948618		2.72	0.008	0.031	0.026	0.5	1.21	<2	<10	<10	<0.5	<2	0.78	<0.5	134	37
X948619		2.79	0.011	0.042	0.022	0.5	1.06	<2	<10	<10	<0.5	<2	0.74	<0.5	273	46
X948620		2.66	0.004	0.027	0.017	0.4	1.54	<2	<10	<10	<0.5	<2	0.65	<0.5	100	52
X948621		2.68	0.026	0.032	0.022	0.7	1.43	<2	<10	<10	<0.5	<2	0.81	<0.5	152	63
X948622		1.28	0.005	0.016	0.015	0.4	1.25	<2	<10	<10	<0.5	<2	1.43	<0.5	85	50
X948623		3.04	0.007	0.011	0.012	0.5	0.57	<2	<10	<10	<0.5	<2	1.43	<0.5	79	21
X948624		2.62	0.009	0.023	0.027	0.7	2.31	<2	<10	<10	<0.5	<2	0.58	<0.5	142	77
X948625		3.79	0.010	0.018	0.022	0.6	2.18	<2	<10	<10	<0.5	<2	0.62	<0.5	121	75
X948626		2.51	0.010	0.014	0.016	0.6	3.13	<2	<10	10	<0.5	<2	4.27	<0.5	138	123
X948627		2.44	0.011	0.013	0.015	0.9	3.22	3	<10	10	<0.5	<2	4.96	<0.5	116	138

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Finalized Date: 23-OCT-2019
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Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948588		709	2.93	<10	<1	0.01	<10	0.48	252	<1	0.02	594	380	<2	1.18	<2
X948589		726	4.37	<10	<1	0.01	<10	0.97	401	<1	0.02	232	420	<2	1.76	<2
X948590		317	6.06	10	<1	0.03	10	2.71	866	<1	0.02	216	780	<2	0.73	<2
X948591		528	7.14	10	<1	0.03	<10	3.00	1080	<1	0.03	689	370	<2	1.12	<2
X948592		156	7.30	10	<1	0.05	<10	2.54	844	<1	0.01	118	370	<2	0.56	<2
X948593		1875	5.11	<10	<1	0.02	<10	0.74	255	<1	0.05	1420	320	<2	2.40	<2
X948594		1425	4.71	<10	1	<0.01	<10	0.62	242	<1	0.01	1075	370	<2	2.17	<2
X948595		15	0.13	<10	<1	<0.01	<10	1.20	125	<1	<0.01	7	80	<2	0.01	<2
X948596		1205	6.05	<10	<1	0.02	<10	0.91	269	<1	0.04	2020	400	<2	2.86	<2
X948597		862	3.28	<10	<1	0.02	<10	0.93	285	<1	0.03	618	500	<2	1.26	<2
X948598		1135	5.66	<10	<1	0.01	<10	1.39	377	<1	0.04	636	410	<2	3.16	<2
X948599		1835	5.98	<10	<1	0.01	<10	0.79	250	<1	0.04	1795	400	<2	4.04	<2
X948600		1875	4.62	<10	<1	0.01	<10	0.36	156	<1	0.03	1630	380	<2	4.05	<2
X948601		2110	5.89	<10	<1	<0.01	<10	0.55	183	<1	0.02	1390	350	<2	5.52	<2
X948602		538	2.79	<10	<1	0.01	<10	0.45	193	<1	0.04	753	350	<2	1.73	<2
X948603		1730	5.41	<10	<1	0.01	<10	0.69	245	<1	0.04	1620	390	<2	3.65	<2
X948604		2410	3.47	10	<1	0.42	10	0.55	217	8	0.34	2270	1770	14	1.21	2
X948605		882	4.98	<10	<1	0.02	<10	1.26	350	<1	0.05	679	420	<2	2.47	<2
X948606		1305	6.14	<10	<1	0.01	<10	1.33	401	<1	0.04	1375	390	<2	3.45	<2
X948607		1520	6.33	<10	<1	0.02	<10	0.73	261	<1	0.04	2230	320	<2	4.62	<2
X948608		2210	8.84	<10	<1	0.01	<10	0.71	263	<1	0.02	2810	310	<2	7.52	<2
X948609		1590	5.75	<10	<1	0.01	<10	0.67	224	<1	0.04	1870	350	<2	4.32	<2
X948610		1465	4.41	<10	<1	0.01	<10	0.36	172	<1	0.02	1350	340	<2	3.68	<2
X948611		1105	4.22	<10	<1	0.01	<10	0.77	252	<1	0.06	883	390	<2	2.61	<2
X948612		1330	6.88	10	<1	0.01	<10	2.12	612	<1	0.02	1360	320	<2	3.44	<2
X948613		872	4.31	<10	<1	0.02	<10	0.94	252	<1	0.04	904	380	<2	2.90	<2
X948614		658	2.84	<10	<1	0.01	<10	0.19	114	<1	0.02	478	410	<2	2.51	<2
X948615		1155	3.92	<10	<1	<0.01	<10	0.13	108	<1	0.01	1095	360	<2	3.97	<2
X948616		1295	4.12	<10	<1	0.01	<10	0.40	155	<1	0.03	1240	330	<2	3.41	<2
X948617		2550	7.19	<10	<1	0.01	<10	0.78	233	<1	0.04	2980	320	<2	5.35	<2
X948618		1015	5.87	<10	1	0.02	<10	0.84	252	<1	0.07	2420	360	<2	3.87	<2
X948619		1270	8.63	<10	1	0.01	<10	0.77	221	<1	0.05	2180	320	<2	7.25	<2
X948620		952	5.69	<10	1	0.01	<10	1.33	314	<1	0.05	1640	320	<2	3.16	<2
X948621		1555	6.79	<10	1	0.01	<10	1.18	300	<1	0.06	2090	290	<2	4.16	<2
X948622		1145	5.02	<10	1	0.01	<10	0.94	286	<1	0.04	1160	360	<2	3.29	<2
X948623		1185	4.40	<10	<1	<0.01	<10	0.20	105	<1	0.03	706	380	<2	4.14	<2
X948624		1835	7.94	<10	1	0.01	<10	2.10	507	<1	0.04	2450	360	<2	4.67	<2
X948625		1500	6.75	<10	1	0.01	<10	2.01	486	<1	0.04	2010	390	<2	3.70	<2
X948626		1390	8.49	10	1	0.03	<10	2.64	723	<1	0.03	1675	330	<2	4.19	<2
X948627		1490	9.01	10	1	0.02	<10	3.29	860	<1	0.03	1865	330	<2	3.48	<2

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Ni-OG46	S-IR08
	Analyte	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	Ni	S
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOD	1	1	20	0.01	10	10	1	10	2	0.001	0.001	0.01
X948588		3	13	<20	0.20	<10	<10	42	<10	17			
X948589		5	19	<20	0.23	<10	<10	69	<10	28			
X948590		13	107	<20	0.09	<10	<10	120	<10	61			
X948591		15	65	<20	<0.01	<10	<10	109	<10	52			
X948592		17	76	<20	0.02	<10	<10	145	<10	75			
X948593		3	11	<20	0.15	<10	<10	41	<10	32			
X948594		3	12	<20	0.19	<10	<10	47	<10	29			
X948595		<1	78	<20	<0.01	<10	<10	<1	<10	<2			
X948596		3	10	<20	0.14	<10	<10	44	<10	28			
X948597		2	8	<20	0.17	<10	<10	47	<10	27			
X948598		3	7	<20	0.17	<10	<10	59	<10	29			
X948599		3	7	<20	0.17	<10	<10	46	<10	25			
X948600		2	10	<20	0.16	<10	<10	34	<10	16			
X948601		4	16	<20	0.18	<10	<10	48	<10	136			
X948602		3	10	<20	0.17	<10	<10	42	<10	13			
X948603		3	9	<20	0.19	<10	<10	52	<10	23			
X948604		3	113	<20	0.17	<10	<10	175	<10	52			
X948605		3	7	<20	0.14	<10	<10	61	<10	27			
X948606		4	8	<20	0.16	<10	<10	62	<10	40			
X948607		2	8	<20	0.12	<10	<10	34	<10	23			
X948608		3	8	<20	0.13	<10	<10	37	<10	27			
X948609		2	8	<20	0.13	<10	<10	31	<10	23			
X948610		2	9	<20	0.14	<10	<10	29	<10	16			
X948611		3	8	<20	0.15	<10	<10	39	<10	26			
X948612		10	14	<20	0.10	<10	<10	94	<10	39			
X948613		4	10	<20	0.13	<10	<10	50	<10	20			
X948614		2	13	<20	0.19	<10	<10	35	<10	13			
X948615		2	13	<20	0.18	<10	<10	33	<10	10			
X948616		3	12	<20	0.16	<10	<10	35	<10	10			
X948617		2	7	<20	0.11	<10	<10	30	<10	29			
X948618		2	6	<20	0.13	<10	<10	38	<10	21			
X948619		3	7	<20	0.12	<10	<10	35	<10	20			
X948620		2	6	<20	0.10	<10	<10	41	<10	27			
X948621		3	5	<20	0.09	<10	<10	39	<10	28			
X948622		3	10	<20	0.14	<10	<10	49	<10	21			
X948623		3	15	<20	0.18	<10	<10	37	<10	7			
X948624		3	5	<20	0.11	<10	<10	67	<10	37			
X948625		3	5	<20	0.09	<10	<10	65	<10	35			
X948626		14	29	<20	0.04	<10	<10	130	<10	49			
X948627		19	43	<20	0.01	<10	<10	145	<10	55			

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RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Pt	Pd	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr
	Units	kg	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.001	0.005	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
X948628		2.35	0.010	0.017	0.020	0.7	1.53	6	<10	10	<0.5	<2	5.93	<0.5	146	138
X948629		1.13	<0.001	<0.005	<0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948630		2.66	0.028	0.015	0.022	1.3	1.78	4	<10	10	<0.5	<2	5.63	<0.5	231	123
X948631		2.58	0.029	0.026	0.029	1.5	1.84	6	<10	10	<0.5	<2	5.29	<0.5	278	115
X948632		2.42	0.047	0.026	0.032	1.4	2.15	6	<10	10	<0.5	<2	4.51	<0.5	195	123
X948633		2.61	0.014	0.016	0.016	1.0	1.32	4	<10	10	<0.5	<2	5.58	<0.5	116	97
X948634		2.37	0.008	0.009	0.009	0.5	2.42	10	<10	10	<0.5	<2	5.70	<0.5	94	340
X948635		2.47	0.015	0.017	0.020	0.8	1.71	4	<10	10	<0.5	<2	5.32	<0.5	131	112
X948636		0.06	0.215	0.198	0.129	0.9	1.90	57	10	140	<0.5	<2	1.47	<0.5	46	256
X948637		1.12	0.007	0.013	0.008	0.5	0.54	2	<10	<10	<0.5	<2	2.66	0.5	75	51
X948638		2.88	0.007	0.014	0.011	0.5	2.98	<2	<10	10	<0.5	<2	5.92	<0.5	77	173
X948639		3.32	0.018	0.012	0.010	0.6	1.06	<2	<10	<10	<0.5	<2	0.98	<0.5	94	45
X948640		2.63	0.008	0.010	0.012	0.5	1.07	<2	<10	<10	<0.5	<2	0.90	<0.5	97	37
X948641		2.46	0.008	0.008	0.010	0.6	1.82	<2	<10	<10	<0.5	<2	0.71	<0.5	113	44
X948642		2.38	0.009	0.013	0.013	0.7	2.02	<2	<10	<10	<0.5	<2	0.82	<0.5	129	50
X948643		2.59	0.008	0.016	0.012	0.4	1.43	<2	<10	<10	<0.5	<2	1.08	<0.5	108	36
X948644		2.45	0.010	0.015	0.013	0.4	1.27	<2	<10	<10	<0.5	<2	0.97	<0.5	121	40
X948645		2.44	0.010	0.027	0.023	0.7	1.02	<2	<10	<10	<0.5	<2	0.61	<0.5	237	40
X948646		1.26	<0.001	<0.005	<0.001	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948647		2.57	0.007	0.025	0.019	0.5	1.25	11	<10	<10	<0.5	<2	0.71	<0.5	198	59
X948648		3.70	0.014	0.022	0.022	1.2	1.10	<2	<10	<10	<0.5	2	1.06	<0.5	189	47
X948649		1.30	0.020	0.019	0.022	0.7	1.10	<2	<10	<10	<0.5	<2	0.58	<0.5	159	30
X948650		2.40	0.013	0.011	0.014	0.6	1.24	<2	<10	<10	<0.5	<2	0.63	<0.5	144	35
X948651		2.49	0.005	0.016	0.018	0.4	1.00	<2	<10	<10	<0.5	<2	0.73	<0.5	101	44
X948652		2.53	0.032	0.036	0.025	1.8	1.01	<2	<10	<10	<0.5	<2	0.69	0.6	287	49
X948653		2.49	0.017	0.014	0.009	0.5	1.10	<2	<10	10	<0.5	<2	0.97	<0.5	97	78
X948654		2.31	0.006	0.009	0.009	0.5	1.32	<2	<10	10	<0.5	<2	0.84	<0.5	88	48
X948655		2.18	0.016	0.015	0.007	0.5	2.93	<2	<10	<10	<0.5	<2	5.56	<0.5	108	126
X948656		2.53	0.029	0.051	0.033	1.0	1.83	5	<10	<10	<0.5	<2	1.91	<0.5	320	101
X948657		2.30	0.014	0.023	0.015	0.9	1.34	2	<10	<10	<0.5	2	0.72	<0.5	149	44
X948658		2.39	0.015	0.022	0.016	0.6	0.92	<2	<10	<10	<0.5	<2	0.97	<0.5	154	36
X948659		2.56	0.015	0.028	0.029	0.7	0.46	<2	<10	<10	<0.5	<2	1.48	<0.5	214	18
X948660		0.94	0.001	<0.005	<0.001	<0.2	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948661		2.36	0.016	0.086	0.029	0.5	1.15	5	<10	<10	<0.5	<2	1.15	<0.5	281	64
X948662		2.31	0.014	0.035	0.016	0.6	1.36	3	<10	<10	<0.5	<2	2.72	<0.5	116	63
X948663		2.28	0.026	0.061	0.023	1.0	0.72	2	<10	<10	<0.5	<2	1.47	<0.5	212	29
X948664		2.52	0.013	0.037	0.016	0.5	1.23	2	<10	10	<0.5	<2	1.42	<0.5	148	58
X948665		2.18	0.020	0.100	0.062	1.0	0.93	6	<10	<10	<0.5	<2	0.75	<0.5	403	57
X948666		0.06	0.049	0.100	0.144	1.1	0.58	<2	<10	40	<0.5	6	0.37	<0.5	709	37
X948667		2.57	0.039	0.059	0.053	0.9	0.98	2	<10	<10	<0.5	<2	1.62	<0.5	227	51

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CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
	Units	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
	LOD	1	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
X948628		1235	9.64	10	1	0.04	<10	3.08	910	<1	0.03	1910	280	<2	4.27	<2
X948629		6	0.12	<10	<1	<0.01	<10	1.33	121	<1	0.01	15	70	<2	0.02	<2
X948630		2440	13.40	10	1	0.03	<10	2.95	850	<1	0.03	3500	250	<2	7.59	<2
X948631		3040	14.40	<10	1	0.04	<10	3.02	839	1	0.03	3800	250	<2	8.91	<2
X948632		3090	13.40	10	1	0.02	<10	2.99	750	1	0.03	3710	280	<2	7.65	<2
X948633		1680	9.50	<10	<1	0.03	<10	2.96	906	<1	0.05	1920	290	<2	3.92	<2
X948634		695	8.09	10	1	0.03	<10	4.54	891	1	0.03	1220	990	<2	2.41	<2
X948635		1755	9.74	10	1	0.05	<10	3.01	850	<1	0.04	2030	290	<2	4.20	<2
X948636		2370	3.41	10	1	0.43	10	0.55	215	8	0.36	2250	1730	13	1.18	<2
X948637		797	4.26	<10	1	0.01	<10	1.10	404	<1	0.02	914	100	<2	2.25	<2
X948638		851	8.62	10	1	0.01	<10	3.33	921	<1	0.04	1190	290	<2	2.27	<2
X948639		1350	4.51	<10	1	0.01	<10	0.75	220	<1	0.07	1295	350	<2	3.29	<2
X948640		1360	4.49	<10	1	0.01	<10	0.70	217	<1	0.08	1545	350	<2	3.41	<2
X948641		1815	5.60	<10	1	0.01	<10	1.44	331	<1	0.08	1620	360	<2	3.47	<2
X948642		1710	6.70	<10	<1	0.01	<10	1.54	348	<1	0.10	2210	370	<2	4.04	2
X948643		1355	5.41	<10	1	0.01	<10	0.75	216	<1	0.13	1875	340	<2	3.13	<2
X948644		1640	5.37	<10	1	0.01	<10	0.69	209	<1	0.12	1825	360	<2	3.22	<2
X948645		2440	9.38	<10	<1	0.01	<10	0.73	179	<1	0.05	4230	360	<2	5.96	<2
X948646		9	0.11	<10	1	<0.01	<10	0.70	99	<1	0.01	21	80	<2	0.02	<2
X948647		1670	7.98	<10	1	0.01	<10	0.93	229	<1	0.07	3180	400	<2	4.52	<2
X948648		3770	7.53	<10	<1	0.02	<10	0.63	206	<1	0.10	2860	370	<2	4.62	<2
X948649		1990	7.52	<10	1	0.01	<10	0.83	198	1	0.07	3530	370	<2	3.78	<2
X948650		1765	6.65	<10	1	0.01	<10	1.00	248	<1	0.07	2560	370	<2	3.35	<2
X948651		990	5.64	<10	1	0.02	<10	0.78	214	<1	0.09	2790	350	<2	2.65	<2
X948652		6220	9.47	<10	1	0.01	<10	0.69	201	<1	0.06	3260	340	<2	6.78	<2
X948653		1195	4.72	<10	1	0.02	<10	0.79	234	<1	0.08	1470	320	<2	2.39	<2
X948654		1055	4.43	<10	1	0.02	<10	1.08	248	<1	0.08	1820	350	<2	2.21	<2
X948655		1185	8.10	10	1	<0.01	<10	2.37	701	1	0.02	1455	310	<2	2.73	<2
X948656		2860	11.65	<10	<1	0.01	<10	1.40	369	<1	0.06	4630	280	<2	6.86	<2
X948657		3260	6.85	<10	1	0.01	<10	1.14	234	1	0.06	2920	390	<2	3.59	<2
X948658		2130	6.77	<10	1	0.01	<10	0.60	174	<1	0.07	3290	460	<2	3.94	<2
X948659		2510	5.59	<10	1	<0.01	<10	0.14	109	<1	0.03	3510	410	<2	5.97	<2
X948660		10	0.11	<10	<1	<0.01	<10	1.23	113	<1	0.01	19	80	<2	0.02	<2
X948661		1680	7.66	<10	1	0.01	<10	0.84	245	<1	0.06	2690	350	<2	5.02	<2
X948662		2010	5.55	<10	1	0.01	<10	1.00	308	<1	0.05	2120	420	<2	3.19	<2
X948663		3030	5.69	<10	1	0.01	<10	0.46	173	1	0.05	2910	330	<2	4.76	<2
X948664		1440	5.49	<10	<1	0.02	<10	0.88	269	<1	0.07	1655	400	<2	3.00	<2
X948665		3670	12.15	<10	<1	0.01	<10	0.59	178	<1	0.07	6310	360	<2	8.05	<2
X948666		9740	35.7	<10	1	0.16	20	0.14	216	2	0.10	>10000	500	4	>10.0	<2
X948667		3070	9.63	<10	1	0.01	<10	0.71	234	<1	0.06	5010	380	<2	4.77	<2

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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Cu-OG46 Cu % 0.001	Ni-OG46 Ni % 0.001	S-IR08 S % 0.01
X948628		14	54	<20	<0.01	<10	<10	87	<10	42			
X948629		<1	74	<20	<0.01	<10	<10	1	<10	3			
X948630		13	52	<20	<0.01	<10	<10	84	<10	48			
X948631		11	51	<20	<0.01	<10	<10	69	<10	52			
X948632		16	48	<20	<0.01	<10	<10	99	<10	65			
X948633		16	79	<20	<0.01	<10	<10	83	<10	43			
X948634		16	153	<20	<0.01	<10	<10	102	<10	62			
X948635		14	50	<20	<0.01	<10	<10	93	<10	51			
X948636		3	110	<20	0.17	<10	<10	173	<10	52			
X948637		5	19	<20	<0.01	<10	<10	32	<10	58			
X948638		21	53	<20	0.01	<10	<10	164	<10	65			
X948639		4	11	<20	0.16	<10	<10	46	<10	18			
X948640		3	11	<20	0.15	<10	<10	39	<10	18			
X948641		3	9	<20	0.11	<10	<10	50	<10	25			
X948642		3	10	<20	0.12	<10	<10	56	<10	25			
X948643		3	14	<20	0.14	<10	<10	40	<10	19			
X948644		3	13	<20	0.14	<10	<10	39	<10	20			
X948645		2	7	<20	0.11	<10	<10	30	<10	18			
X948646		<1	78	<20	<0.01	<10	<10	<1	<10	<2			
X948647		3	6	<20	0.10	<10	<10	38	<10	20			
X948648		3	10	<20	0.11	<10	<10	34	<10	29			
X948649		2	7	<20	0.11	<10	<10	33	<10	19			
X948650		3	7	<20	0.13	<10	<10	41	<10	21			
X948651		3	7	<20	0.09	<10	<10	32	<10	17			
X948652		3	7	<20	0.11	<10	<10	29	<10	45			
X948653		4	7	<20	0.11	<10	<10	42	<10	23			
X948654		4	8	<20	0.15	<10	<10	45	<10	27			
X948655		15	20	<20	0.09	<10	<10	128	<10	47			
X948656		5	9	<20	0.10	<10	<10	60	<10	35			
X948657		3	7	<20	0.15	<10	<10	46	<10	30			
X948658		3	10	<20	0.18	<10	<10	48	<10	17			
X948659		3	13	<20	0.20	<10	<10	42	<10	8			
X948660		<1	73	<20	<0.01	<10	<10	1	<10	2			
X948661		3	9	<20	0.11	<10	<10	42	<10	22			
X948662		5	12	<20	0.15	<10	<10	71	<10	20			
X948663		3	10	<20	0.15	<10	<10	41	<10	15			
X948664		5	11	<20	0.16	<10	<10	54	<10	26			
X948665		3	7	<20	0.11	<10	<10	33	<10	28			
X948666		3	17	<20	0.09	<10	<10	59	<10	45		2.01	25.0
X948667		3	13	<20	0.14	<10	<10	43	<10	27			

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

ALS Canada Ltd.
2103 Dollarton Hwy
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To: PANCONTINENTAL RESOURCES
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Pt	Pd	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr
	Units	kg	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.001	0.005	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1
X948668		2.51	0.021	0.062	0.037	1.2	0.81	<2	<10	<10	<0.5	<2	1.23	<0.5	205	51
X948669		2.49	0.028	0.025	0.015	1.0	1.29	<2	<10	<10	<0.5	2	1.11	<0.5	102	72
X948670		2.42	0.013	0.046	0.030	0.6	0.91	<2	<10	<10	<0.5	<2	1.02	<0.5	177	56
X948671		2.71	0.005	0.059	0.042	0.9	0.82	<2	<10	<10	<0.5	<2	0.83	<0.5	246	41
X948672		2.61	0.015	0.049	0.042	0.9	0.78	<2	<10	<10	<0.5	2	0.65	<0.5	256	39
X948673		2.58	0.010	0.029	0.022	0.4	0.77	<2	<10	<10	<0.5	<2	0.79	<0.5	170	39
X948674		2.49	0.024	0.026	0.024	0.7	0.74	<2	<10	<10	<0.5	<2	0.93	<0.5	146	38
X948675		2.53	0.012	0.070	0.045	0.5	1.42	<2	<10	<10	<0.5	<2	0.89	<0.5	243	75
X948676		2.50	0.014	0.067	0.051	0.5	1.07	<2	<10	<10	<0.5	<2	0.93	<0.5	359	64
X948677		1.06	0.001	0.005	0.001	<0.2	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1
X948678		2.53	0.012	0.043	0.049	0.6	0.92	<2	<10	<10	<0.5	<2	0.84	<0.5	292	40
X948679		2.28	0.021	0.018	0.025	0.5	1.08	<2	<10	<10	<0.5	<2	0.82	<0.5	161	40
X948680		1.82	0.016	0.020	0.020	0.4	1.16	<2	<10	<10	<0.5	<2	0.87	<0.5	138	51
X948681		2.36	0.008	0.006	<0.001	<0.2	1.48	<2	<10	10	<0.5	<2	1.00	<0.5	16	31
X948682		3.52	0.033	<0.005	<0.001	0.2	1.45	<2	<10	10	<0.5	<2	0.84	<0.5	14	41
X948683		2.22	0.001	<0.005	0.001	<0.2	1.59	<2	<10	10	<0.5	<2	0.90	<0.5	15	46
X948684		1.88	<0.001	<0.005	0.004	<0.2	1.48	<2	<10	10	<0.5	<2	1.09	<0.5	21	40
X948685		2.71	0.014	0.037	0.044	0.6	1.88	19	<10	<10	<0.5	<2	1.67	<0.5	288	97
X948686		0.06	0.178	0.170	0.111	1.0	2.00	57	10	150	<0.5	4	1.54	<0.5	47	280
X948687		2.50	0.013	0.031	0.035	0.7	1.91	2	<10	<10	<0.5	<2	1.20	<0.5	188	90
X948688		2.56	0.003	0.013	0.020	0.3	1.44	<2	<10	10	<0.5	<2	0.97	<0.5	101	68
X948689		2.43	0.041	0.033	0.086	0.9	1.23	<2	<10	<10	<0.5	<2	0.94	<0.5	511	51
X948690		2.63	0.004	<0.005	0.001	<0.2	1.58	<2	<10	<10	<0.5	<2	1.13	<0.5	17	27
X948691		2.00	0.001	<0.005	0.001	0.3	3.94	<2	<10	<10	<0.5	<2	7.6	<0.5	38	71
X948692		2.26	0.001	<0.005	0.002	0.3	4.05	<2	<10	<10	<0.5	<2	6.56	<0.5	39	92

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2
X948668		4310	9.21	<10	1	0.01	<10	0.53	196	<1	0.06	4530	340	<2	4.10	<2
X948669		4620	5.97	<10	<1	0.01	<10	0.93	280	<1	0.05	1895	400	<2	2.32	<2
X948670		1720	7.49	<10	<1	0.01	<10	0.66	200	<1	0.06	3140	390	<2	3.28	<2
X948671		2990	9.99	<10	1	0.01	<10	0.58	174	<1	0.06	4260	340	<2	4.21	<2
X948672		3500	10.10	<10	1	0.01	<10	0.52	142	<1	0.05	4300	350	<2	4.22	<2
X948673		1880	6.94	<10	1	0.01	<10	0.45	143	<1	0.05	2480	400	<2	3.25	<2
X948674		2230	6.00	<10	1	0.01	<10	0.41	147	<1	0.06	2140	400	<2	2.79	<2
X948675		2700	10.05	<10	1	0.01	<10	1.16	323	<1	0.05	3650	320	<2	3.94	<2
X948676		2010	12.65	<10	1	0.01	<10	0.74	241	<1	0.06	5010	320	<2	4.69	<2
X948677		10	0.12	<10	1	<0.01	<10	0.89	108	1	0.01	23	70	<2	0.03	<2
X948678		2220	11.00	<10	1	0.01	<10	0.62	202	<1	0.05	4350	290	<2	4.28	<2
X948679		1440	6.64	<10	1	0.01	<10	0.80	225	<1	0.06	2350	410	<2	2.76	<2
X948680		1500	5.98	<10	1	0.02	<10	0.91	264	<1	0.06	1910	380	<2	2.40	<2
X948681		141	2.07	<10	1	0.02	10	1.10	362	1	0.08	78	640	<2	0.09	<2
X948682		243	1.86	<10	1	0.04	10	1.12	341	1	0.08	74	570	<2	0.08	<2
X948683		29	2.17	<10	<1	0.03	10	1.33	397	<1	0.06	75	580	<2	0.04	<2
X948684		106	2.52	<10	1	0.02	10	1.26	334	<1	0.05	326	550	<2	0.35	<2
X948685		1555	9.32	<10	1	0.01	<10	1.64	433	1	0.03	3050	300	<2	3.89	<2
X948686		2410	3.54	10	1	0.44	20	0.57	263	9	0.38	2300	1780	14	1.22	2
X948687		1795	8.45	<10	1	0.01	<10	1.66	426	<1	0.04	3040	330	<2	3.27	<2
X948688		567	4.96	<10	1	0.03	<10	1.26	344	<1	0.04	1735	350	<2	1.72	<2
X948689		2450	11.35	<10	1	0.02	<10	1.02	303	<1	0.05	5650	260	<2	5.29	<2
X948690		128	3.78	10	1	0.03	<10	1.20	416	1	0.10	39	500	<2	0.02	<2
X948691		121	8.05	10	1	<0.01	<10	2.96	1115	<1	0.02	82	430	<2	0.10	<2
X948692		76	8.01	10	1	<0.01	<10	3.32	1115	<1	0.02	87	410	<2	0.29	<2

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RICHMOND HILL ON L4C 0V7

Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Ni-OG46	S-IR08
	Analyte	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	Ni	S
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOD	1	1	20	0.01	10	10	1	10	2	0.001	0.001	0.01
X948668		3	9	<20	0.13	<10	<10	32	<10	39			
X948669		3	9	<20	0.18	<10	<10	49	<10	49			
X948670		3	8	<20	0.11	<10	<10	33	<10	24			
X948671		3	8	<20	0.14	<10	<10	37	<10	30			
X948672		3	6	<20	0.14	<10	<10	38	<10	27			
X948673		3	7	<20	0.18	<10	<10	48	<10	22			
X948674		3	8	<20	0.18	<10	<10	45	<10	27			
X948675		3	8	<20	0.14	<10	<10	41	<10	36			
X948676		4	7	<20	0.13	<10	<10	42	<10	24			
X948677		<1	72	<20	<0.01	<10	<10	<1	<10	<2			
X948678		3	8	<20	0.15	<10	<10	40	<10	24			
X948679		2	9	<20	0.13	<10	<10	33	<10	30			
X948680		3	8	<20	0.13	<10	<10	38	<10	33			
X948681		2	12	<20	0.12	<10	<10	40	<10	27			
X948682		2	13	<20	0.12	<10	<10	32	<10	30			
X948683		2	12	<20	0.14	<10	<10	37	<10	27			
X948684		2	10	<20	0.14	<10	<10	33	<10	24			
X948685		2	7	<20	0.10	<10	<10	42	<10	41			
X948686		4	116	<20	0.18	<10	<10	180	<10	53			
X948687		3	8	<20	0.14	<10	<10	47	<10	43			
X948688		3	7	<20	0.12	<10	<10	42	<10	30			
X948689		3	7	<20	0.10	<10	<10	39	<10	39			
X948690		6	7	<20	0.21	<10	<10	100	<10	34			
X948691		33	58	<20	0.19	<10	<10	248	<10	89			
X948692		32	75	<20	0.18	<10	<10	241	<10	88			

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Finalized Date: 23-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19244539

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Cu-OG46	ME-ICP41	ME-OG46	Ni-OG46
	PGM-ICP23	S-IR08		

Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

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To: PANCONTINENTAL RESOURCES
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RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

CERTIFICATE TM19245959

Project: ST. LAURENT

This report is for 12 Drill Core samples submitted to our lab in Timmins, ON, Canada on 1-OCT-2019.

The following have access to data associated with this certificate:

LAYTON CROFT	TODD KEAST	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-31	Pulverize up to 250g 85% <75 um
PUL-QC	Pulverizing QC Test
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

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

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

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **PANCONTINENTAL RESOURCES**
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RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19245959

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA24 Au ppm 0.005
X948693		2.55	<0.005
X948694		2.22	<0.005
X948695		1.52	<0.005
X948696		1.97	<0.005
X948697		1.03	<0.005
X948698		2.30	<0.005
X948699		0.06	0.211
X948700		1.97	<0.005
X948701		2.14	<0.005
X948702		0.96	<0.005
X948703		2.38	<0.005
X948704		2.34	<0.005

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

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RICHMOND HILL ON L4C 0V7

Finalized Date: 17-OCT-2019
Account: PRPKNHJI

Project: ST. LAURENT

CERTIFICATE OF ANALYSIS TM19245959

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24

Applies to Method: Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.

CRU-31	CRU-QC	LOG-21	LOG-23
PUL-31	PUL-QC	SPL-21	WEI-21

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To: PANCONTINENTAL RESOURCES
BOX 31317
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RICHMOND HILL ON L4C 0V7

Finalized Date: 22-OCT-2019
Account: PRPKNHJI

CERTIFICATE TM19252624

Project: St. Laurent

This report is for 1 Drill Core sample submitted to our lab in Timmins, ON, Canada on 8-OCT-2019.

The following have access to data associated with this certificate:

LAYTON CROFT	TODD KEAST	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-21	Sample logging - ClientBarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

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

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

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **PANCONTINENTAL RESOURCES**
BOX 31317
BAYVIEW 16TH AVE. PO 9275 BAYVIEW AVE
RICHMOND HILL ON L4C 0V7

Finalized Date: 22-OCT-2019
Account: PRPKNHJI

Project: St. Laurent

CERTIFICATE OF ANALYSIS TM19252624

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA24 Au ppm 0.005
X948706		2.00	0.013

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

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

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RICHMOND HILL ON L4C 0V7

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24

Applies to Method: Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.
CRU-31 LOG-21 PUL-31 SPL-21
WEI-21

Appendix D: Property Data

Table 1: The client identification number, township, provincial cell number and claim unit number for each of the claim units that make up Pancontinental Resources Corporation's (PRC) St. Laurent Property. Bolded claim numbers indicate those in which drilling occurred during PRC's 2019 exploration program. Italicised claim numbers indicate those where historical drilling occurred.

Ownership (Client Number)	Township	Cell Number	Claim Number
10001623	St. Laurent	32E05H048	268000
10001623	St. Laurent	32E05H049	237852
10001623	St. Laurent	32E05H050	324060
10001623	St. Laurent	32E05H051	113294
10001623	St. Laurent	32E05H052	170021
10001623	St. Laurent	32E05H053	274006
10001623	St. Laurent	32E05H054	200001
10001623	St. Laurent	32E05H055	236438
10001623	St. Laurent	32E05H056	322705
10001623	St. Laurent	32E05H057	169357
10001623	St. Laurent	32E05H068	220815
10001623	St. Laurent	32E05H069	268007
10001623	St. Laurent	32E05H070	334482
10001623	St. Laurent	32E05H071	171269
10001623	St. Laurent	32E05H072	220093
10001623	St. Laurent	32E05H073	220092
10001623	St. Laurent	32E05H074	303865
10001623	St. Laurent	32E05H075	187817
10001623	St. Laurent	32E05H076	151219
10001623	St. Laurent	32E05H077	320532
10001623	St. Laurent	32E05H088	334496
10001623	St. Laurent	32E05H089	324581
10001623	St. Laurent	32E05H090	311861
10001623	St. Laurent	32E05H091	136564
10001623	St. Laurent	32E05H092	113066
10001623	St. Laurent	32E05H093	267256
10001623	St. Laurent	32E05H094	323354
10001623	St. Laurent	32E05H095	333781
10001623	St. Laurent	32E05H096	199338
10001623	St. Laurent	32E05H097	273338
10001623	St. Laurent	32E05H105	200609
10001623	St. Laurent	32E05H106	304455
10001623	St. Laurent	32E05H107	141903

10001623	St. Laurent	32E05H108	111947
10001623	St. Laurent	32E05H109	277052
10001623	St. Laurent	32E05H110	204380
10001623	St. Laurent	32E05H111	139080
10001623	St. Laurent	32E05H112	141285
10001623	St. Laurent	32E05H113	255155
10001623	St. Laurent	32E05H114	274007
10001623	St. Laurent	32E05H115	333782
10001623	St. Laurent	32E05H116	322706
10001623	St. Laurent	32E05H117	199339
10001623	St. Laurent	32E05H124	237208
10001623	St. Laurent	32E05H125	155995
10001623	St. Laurent	32E05H126	113172
10001623	St. Laurent	32E05H127	136441
10001623	St. Laurent	32E05H128	240326
10001623	St. Laurent	32E05H129	277053
10001623	St. Laurent	32E05H130	211165
10001623	St. Laurent	32E05H131	111948
10001623	St. Laurent	32E05H132	240325
10001623	St. Laurent	32E05H133	334092
10001623	St. Laurent	32E05H134	334901
10001623	St. Laurent	32E05H135	207355
10001623	St. Laurent	32E05H136	320533
10001623	St. Laurent	32E05H137	151220
10001623	St. Laurent	32E05H144	237208
10001623	St. Laurent	32E05H145	311230
10001623	St. Laurent	32E05H146	141904
10001623	St. Laurent	32E05H147	113173
10001623	St. Laurent	32E05H148	191690
10001623	St. Laurent	32E05H149	248389
10001623	St. Laurent	32E05H150	211165
10001623	St. Laurent	32E05H151	211166
10001623	St. Laurent	32E05H152	355284
10001623	St. Laurent	32E05H153	310616
10001623	St. Laurent	32E05H154	274019
10001623	St. Laurent	32E05H155	155376
10001623	St. Laurent	32E05H156	171899
10001623	St. Laurent	32E05H157	334613
10001623	St. Laurent	32E05H164	274629
10001623	St. Laurent	32E05H165	334344
10001623	St. Laurent	32E05H166	141905
10001623	St. Laurent	32E05H167	155996
10001623	St. Laurent	32E05H168	173653
10001623	St. Laurent	32E05H169	259899
10001623	St. Laurent	32E05H170	314383
10001623	St. Laurent	32E05H171	111949

10001623	St. Laurent	32E05H172	335285
10001623	St. Laurent	32E05H173	170030
10001623	St. Laurent	32E05H174	113076
10001623	St. Laurent	32E05H175	220102
10001623	St. Laurent	32E05H176	256517
10001623	St. Laurent	32E05H177	238504
10001623	St. Laurent	32E05H181	135840
10001623	St. Laurent	32E05H182	323335
10001623	St. Laurent	32E05H183	135839
10001623	St. Laurent	32E05H184	254520
10001623	St. Laurent	32E05H185	273368
10001623	St. Laurent	32E05H186	303207
10001623	St. Laurent	32E05H187	236439
10001623	*St. Laurent*	*32E05H188*	*211169*
10001623	St. Laurent	32E05H189	211168
10001623	St. Laurent	32E05H190	326563
10001623	St. Laurent	32E05H191	335286
10001623	*St. Laurent*	*32E05H192*	*139081*
10001623	St. Laurent	32E05H193	155377
10001623	St. Laurent	32E05H194	274020
10001623	St. Laurent	32E05H195	169998
10001623	St. Laurent	32E05H196	113039
10001623	St. Laurent	32E05H197	199969
10001623	St. Laurent	32E05H201	113067
10001623	St. Laurent	32E05H202	200003
10001623	St. Laurent	32E05H203	200002
10001623	St. Laurent	32E05H204	199353
10001623	St. Laurent	32E05H205	207364
10001623	St. Laurent	32E05H206	154717
10001623	St. Laurent	32E05H207	135173
10001623	St. Laurent	32E05H208	151234
10001623	St. Laurent	32E05H209	155436
10001623	St. Laurent	32E05H210	200561
10001623	St. Laurent	32E05H211	255213
10001623	St. Laurent	32E05H212	141878
10001623	St. Laurent	32E05H213	200589
10001623	St. Laurent	32E05H214	323919
10001623	St. Laurent	32E05H215	236563
10001623	St. Laurent	32E05H216	169999
10001623	St. Laurent	32E05H217	334070
10001623	St. Laurent	32E05H221	255156
10001623	St. Laurent	32E05H222	267257
10001623	St. Laurent	32E05H223	274008
10001623	St. Laurent	32E05H224	236456
10001623	St. Laurent	32E05H225	303208
10001623	St. Laurent	32E05H226	154719

10001623	St. Laurent	32E05H227	154718
10001623	St. Laurent	32E05H228	187832
10001623	*St. Laurent*	*32E05H229*	*323406*
10001623	**St. Laurent**	**32E05H230**	**237155**
10001623	St. Laurent	32E05H231	208580
10001623	St. Laurent	32E05H232	255235
10001623	St. Laurent	32E05H233	267844
10001623	St. Laurent	32E05H234	274605
10001623	St. Laurent	32E05H235	273980
10001623	St. Laurent	32E05H236	113041
10001623	St. Laurent	32E05H237	113040
10001623	St. Laurent	32E05H241	155369
10001623	St. Laurent	32E05H242	274009
10001623	St. Laurent	32E05H243	267258
10001623	St. Laurent	32E05H244	333797
10001623	St. Laurent	32E05H245	236457
10001623	*St. Laurent*	*32E05H246*	*322720*
10001623	St. Laurent	32E05H247	187833
10001623	St. Laurent	32E05H248	266596
10001623	**St. Laurent**	**32E05H249**	**237156**
10001623	St. Laurent	32E05H250	311172
10001623	St. Laurent	32E05H251	274582
10001623	St. Laurent	32E05H252	135921
10001623	St. Laurent	32E05H253	220175
10001623	St. Laurent	32E05H254	135920
10001623	St. Laurent	32E05H255	154696
10001623	St. Laurent	32E05H256	266573
10001623	St. Laurent	32E05H257	170000
10001623	St. Laurent	32E05H264	137173
10001623	St. Laurent	32E05H265	257391
10001623	St. Laurent	32E05H266	142654
10001623	St. Laurent	32E05H267	238487
10001623	St. Laurent	32E05H268	256507
10001623	*St. Laurent*	*32E05H269*	*262780*
10001623	St. Laurent	32E05H270	132038
10001623	St. Laurent	32E05H271	238442
10001623	St. Laurent	32E05H272	156677
10001623	St. Laurent	32E05H273	324646
10001623	St. Laurent	32E05H274	137141
10001623	St. Laurent	32E05H275	135151
10001623	St. Laurent	32E05H276	303184
10001623	St. Laurent	32E05H277	151210
10001623	St. Laurent	32E05H284	256508
10001623	St. Laurent	32E05H285	221408
10001623	St. Laurent	32E05H286	171392
10001623	St. Laurent	32E05H287	311969

10001623	St. Laurent	32E05H288	221407
10001623	St. Laurent	32E05H289	233500
10001623	St. Laurent	32E05H290	332839
10001623	St. Laurent	32E05H291	201313
10001623	St. Laurent	32E05H292	334554
10001623	St. Laurent	32E05H293	113370
10001623	St. Laurent	32E05H294	334533
10001623	St. Laurent	32E05H295	303185
10001623	St. Laurent	32E05H296	254505
10001623	St. Laurent	32E05H297	320527
10001623	St. Laurent	32E05H304	142655
10001623	St. Laurent	32E05H305	324688
10001623	St. Laurent	32E05H306	113420
10001623	St. Laurent	32E05H307	275337
10001623	St. Laurent	32E05H308	113419
10001623	St. Laurent	32E05H309	132039
10001623	St. Laurent	32E05H310	317872
10001623	St. Laurent	32E05H311	324647
10001623	St. Laurent	32E05H312	275308
10001623	St. Laurent	32E05H313	113371
10001623	St. Laurent	32E05H314	238443
10001623	St. Laurent	32E05H315	322697
10001623	St. Laurent	32E05H316	266574
10001623	St. Laurent	32E05H317	151211
10001623	St. Laurent	32E06H324	142656
10001623	St. Laurent	32E06H325	305160
10001623	St. Laurent	32E06H326	256509
10001623	St. Laurent	32E06H327	311970
10001623	St. Laurent	32E06H328	201869
10001623	St. Laurent	32E06H329	233501
10001623	St. Laurent	32E06H330	270759
10001623	St. Laurent	32E06H331	257349
10001623	St. Laurent	32E06H332	142616
10001623	St. Laurent	32E06H333	201314
10001623	St. Laurent	32E06H334	256477
10001623	St. Laurent	32E06H335	273331
10001623	St. Laurent	32E06H336	199331
10001623	St. Laurent	32E06H337	207353