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Impala Canada
Lac des Iles Mines Ltd.

2019 Exploration Assessment Report on the Roby Southwest Extension Drilling

Lac Des Iles Property

Lease # 107911 (CLM 252)

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Thunder Bay, Ontario

March 31st, 2021

Contents

Introduction

Impala Canada and its wholly owned predecessor, Lac des Iles Mines Ltd. (LDIM) completed seven diamond drill holes totalling 2,274 meters on the Roby Southwest Extension zone from April 20th, 2019 through May 25th, 2019. Major Drilling, based from Winnipeg, Manitoba, supplied one drill to complete this work for a total of 36 days of drilling.

The potential mineralized zone was first identified by two historical drillholes and further refined by a 3D geological review. The two historic holes, drilled in 2001, were testing for gabbroic intrusion or inclusions within the tonalite country rock. Drillholes 01-078 and 01-082 both intersected zones of palladium mineralization within the Mine Block Intrusion (MBI) south of the Roby Central Fault and neither intersected the anticipated tonalite country rock. A recent 3D geological review highlighted the importance of major NE-SW trending structures in controlling both the shape and distribution of mineralization in the Western MBI. In the Roby Block, the northeast-southwest trending Roby Central Fault controls the mineralization distribution pattern. Airborne and ground magnetic surveys indicate a magnetic low that corresponds with the Roby Central fault and extends an additional 500 meters to the southwest. The purpose of this program is to test whether the Roby SW continues within the magnetic low.

This report is submitted to satisfy assessment work requirements. A total expenditure of $455,633.93 is submitted for assessment. Activities documented herein include:

- 2,274 meters drilling in seven diamond drill holes
- 1,561 samples submitted for assay

Land Tenure, Location, and Access

The Lac Des Iles Mine is located approximately 90 km north of Thunder Bay in Northwestern Ontario (Figure 1.) The project is part of the Thunder Bay Mining District on provincial NTS grid 52H04H and 52H04I. To access the claim block from Thunder Bay, head north approximately 90 kilometers on Hwy 527 to the Lac Des Iles Mine Access Road. The access road is fifteen kilometers in length and leads to a manned security entrance.

This report, submitted to obtain assessment work credit, details the results of diamond drilling on mining lease CLM 252 (lease #107911). Impala Canada Ltd. holds the mining and surface rights for CLM 252 under 21 year leases with expiry dates of August 31st, 2027. Leases and claims held by Impala Canada are shown in Figure 2 and Table 1.

Table 1: Impala Canada Mining Leases at Lac des Iles.

Claim No.	Parcel	Area (ha)	Lease No.	Due Date	Annual Taxes ($)	Comments
CLM251	2982L TB	235	107910	2027-Aug-31	705	Surface and Mining Rights
CLM252	2983L TB	341.4	107911	2027-Aug-31	1,024	Surface and Mining Rights
CLM253	2985L TB	395.7	107909	2027-Aug-31	1,187	Surface and Mining Rights
CLM254	2984L TB	497.4	107908	2027-Aug-31	1,492	Mining Rights Only
CLM430	2531L TB	348.4	108139	2027-Sep-30	1,045	Surface and Mining Rights
CLM431	2532L TB	1,695.30	108138	2027-Sep-30	5,086	Surface and Mining Rights
Total	**6**	**3,513.20**	**-**	**-**	**10,539**	**-**

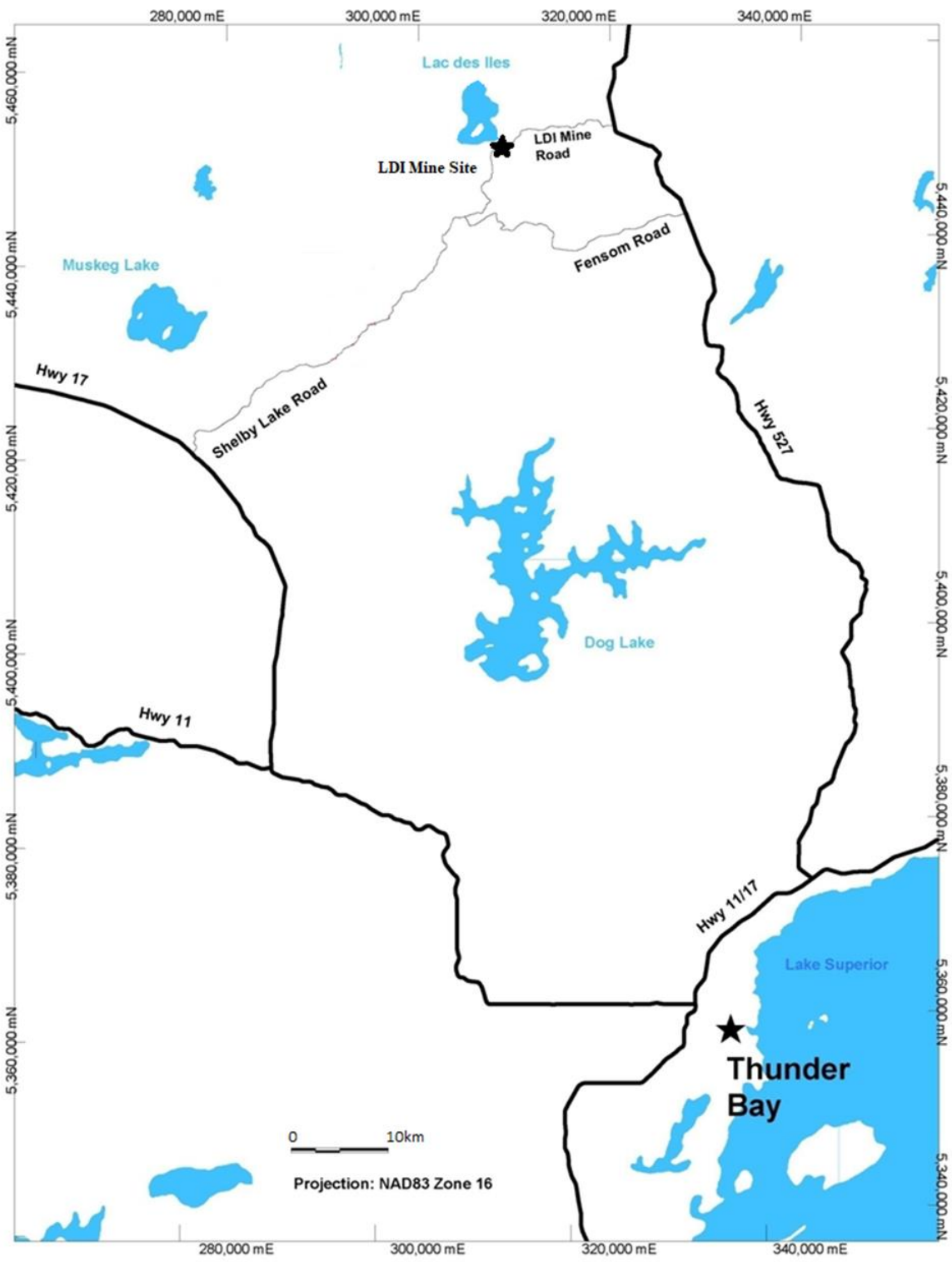

Figure 1: LDI Mine Property Location Map

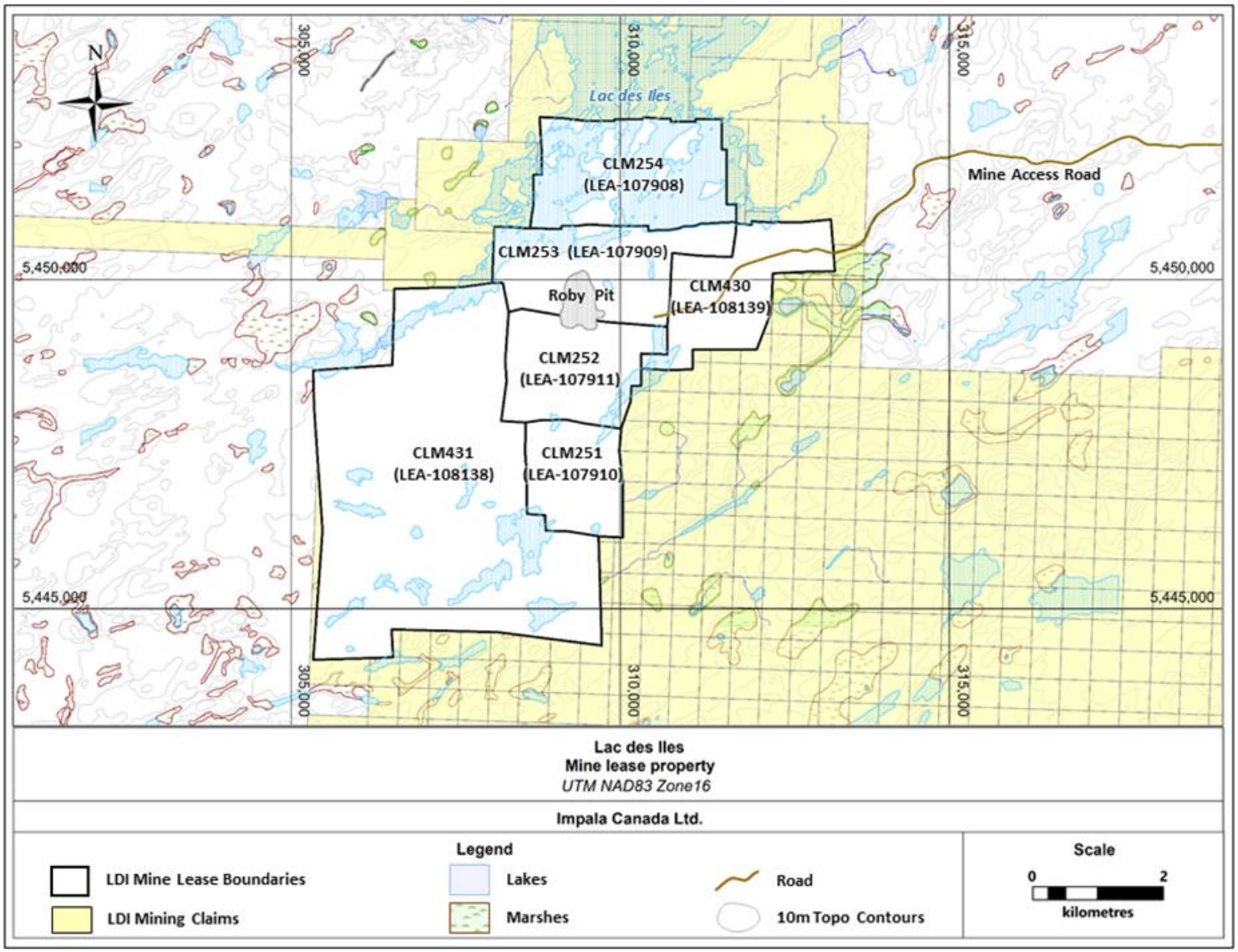

Figure 2: Land tenure of the property

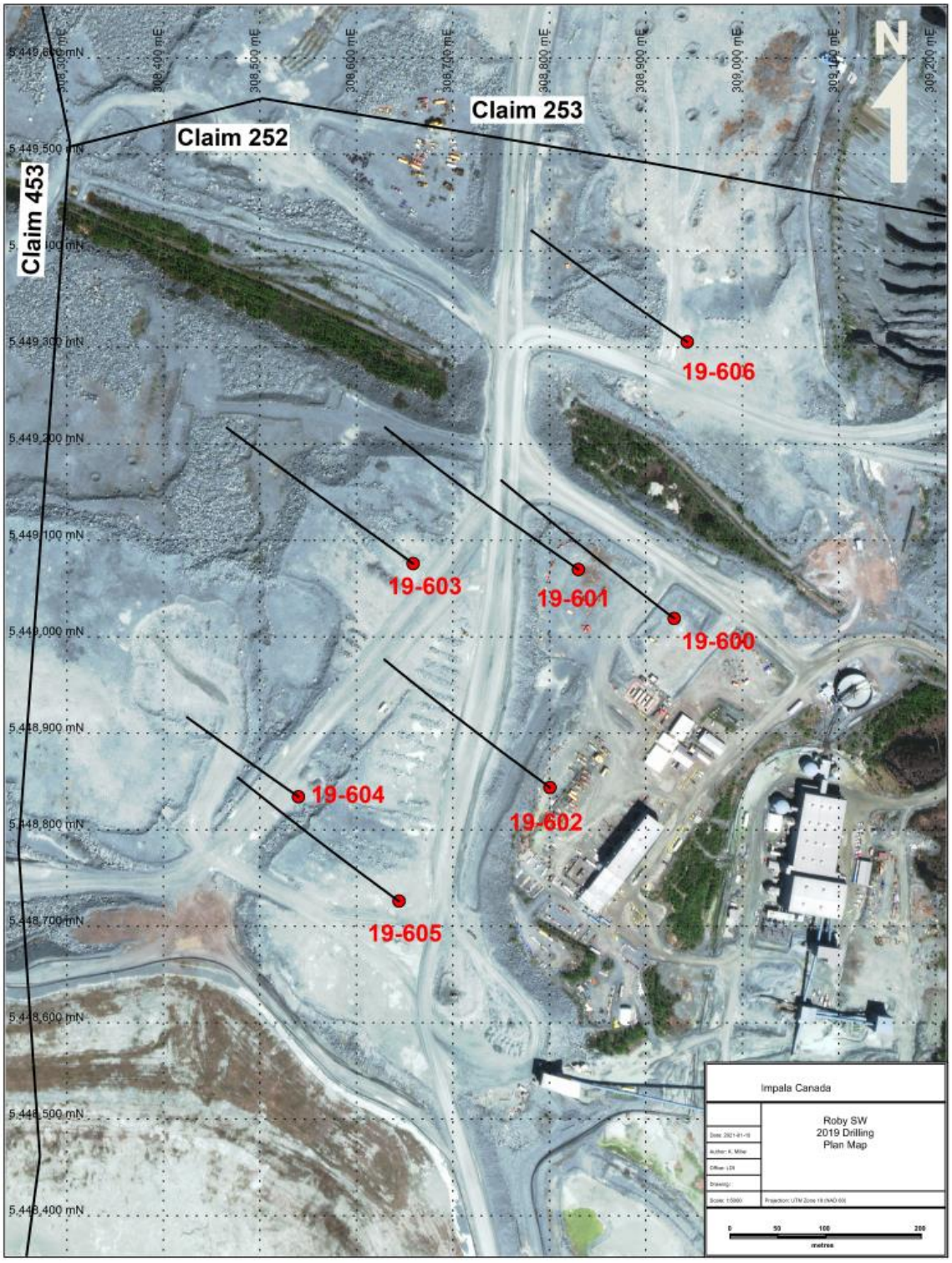

Figure 3: Plan Map showing location of drill collars, traces, and claim blocks over aerial imagery (1:5000 scale, NAD 83/Z16)

Regional Geology

Much of the information presented in this section is sourced from the Open File Report OFR6120 Project Unit 95-014; *Regional Geology of the Lac des Iles Area* (Stone et al. 2003). Information presented here was also sourced from *NI 43-101 Technical Report: Feasibility Study Incorporating the Life of Mine Plan for Lac des Iles Mine, Thunder Bay, Ontario, Canada* (Buss et al. 2017). Additional sources are referenced where appropriate.

The Lac Des Iles mine is located in the eastern part of the Central Wabigoon subprovince of the Archean Superior Structural Province. It is part of the Lac des Iles Suite of Neoarchean mafic to ultra-mafic intrusions that occur within an approximately 42 kilometer diameter circular perimeter comprising the Lac des Iles intrusions, the Tib Lake intrusion, the Buck Lake intrusion, the Wakinoo/Demars intrusion, the Bullseye intrusion, the Chisamore Intrusion, Shelby River Intrusion and the Dog River intrusion (see Figure 4). The intrusions are located immediately to the north of the Quetico Subprovince and directly west of the Nipigon embayment of the Mid-continent Rift System. These intrude a series of tonalite and tonalite gneiss, with some biotite granodiorite, granite, and sanukitoid rocks in the immediate area. The Quetico terrain boundary runs SW-NE immediately to the south of these intrusions. (Stone, D. 2010)

The easternmost bodies of the Lac des Iles suite of intrusions are the LDI Igneous Complex (LDI-IC) and the Legris Lake complex. Both the LDI-IC and the Legris Lake complex appear to have been emplaced along northeast-trending splay structures (e.g., Shelby Lake fault) emanating from the Quetico Fault Zone (*see* Figure 4). The Quetico Fault Zone is a collisional structural boundary between the Quetico and Wabigoon subprovinces that formed during the Shebandowanian orogeny at approximately 2695 Ma (Corfu and Stott 1986). Similarly, many of the Lac des Iles suite intrusions located in the western part of the Lac des Iles area are spatially associated with northeast- to north-striking faults that splay off this collisional boundary.

The intrusions range in size from 1 to 10 km and vary compositionally from leucogabbro and gabbronorite with rare anorthosite to peridotite and pyroxenite. The intrusions crosscut most rock types except for biotite granite dikes and Proterozoic-aged intrusions. Archean rocks are observed to be intruded by Proterozoic-aged (~1100 Ma) diabase dikes and sills of the Nipigon Sill Complex of the Mid-Continent Rift (MCR). They are typically medium grained, massive, and dark grey weathering brown and locally pyroxene phyric.

Uranium-lead age determinations for zircons contained in the mafic rocks show that the Lac des Iles suite intrusions were likely emplaced between 2699 and 2686 Ma (Stone and Davis 2006). This age overlaps with regional sanukitoid magmatism in both the Wabigoon Terrane and the Quetico Subprovince.

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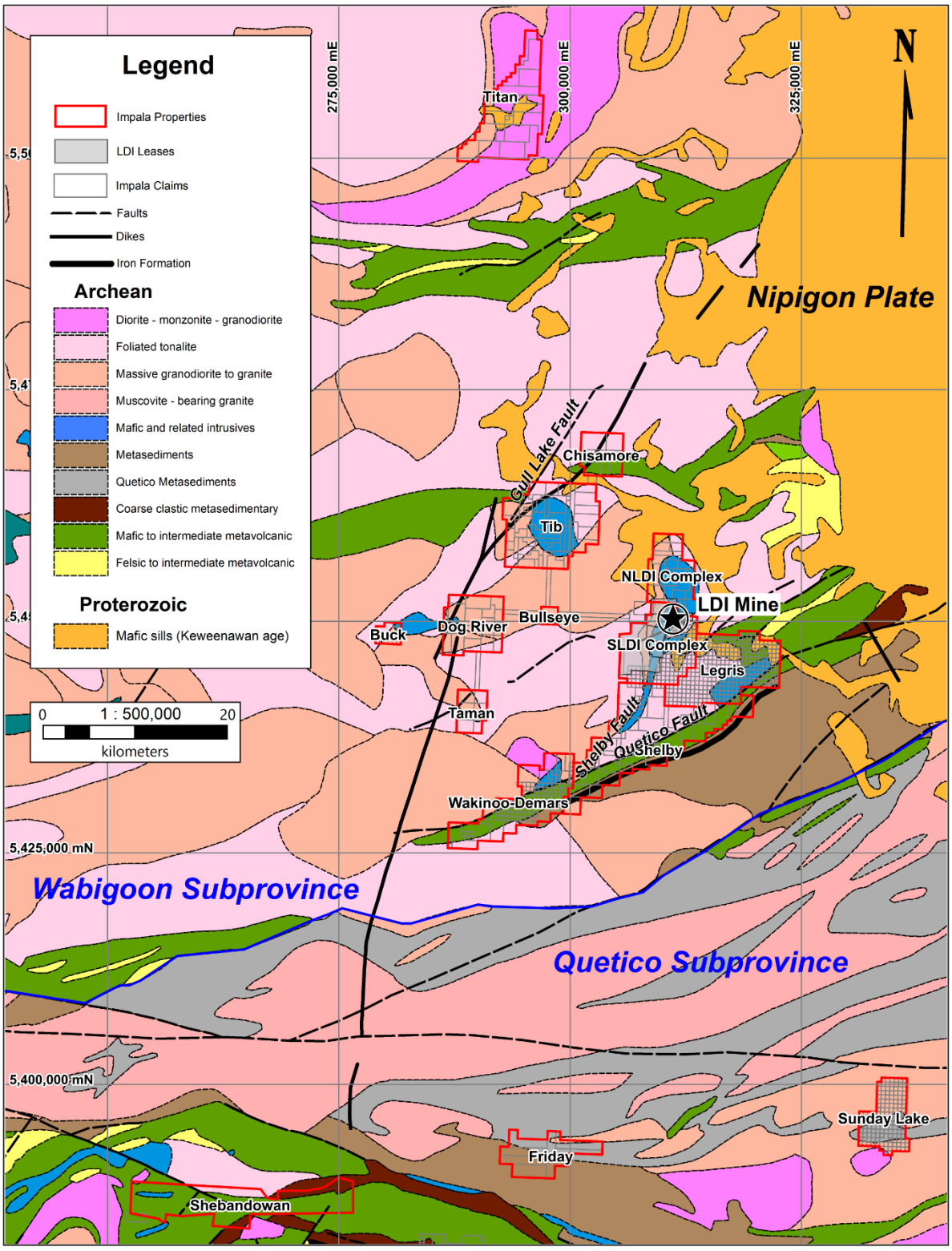

Figure 4: Regional geology of the Lac des Iles suite intrusions

Property Geology

A recent Technical Report (Buss et al. 2017) describes the LDI mine property as follows:

The Property captures the known extent of the Lac Des Iles Intrusive Complex, an irregularly shaped Neoarchean-age mafic-ultramafic intrusive body having maximum dimensions of approximately 9 km in the north-south direction and approximately 4 kilometers in the east-west direction (Figure 5). The complex is interpreted to be made up of three discrete intrusive bodies:

- The North Lac Des Iles intrusion (NLDI) characterized by a series of relatively flat-lying and nested ultramafic bodies with subordinate mafic rocks;
- The South Lac Des Iles Intrusion (SLDI), which consists of the Mine Block intrusion (MBI) and the Camp Lake Intrusion
- The Camp Lake Intrusion; a poorly exposed/documented gabbroic to dioritic intrusion, in the southwestern part of the property

The principal rock types in and adjacent to the LDI Igneous Complex are discussed below with reference to the host intrusion and the property geology map (Figure 5 and Figure 6). The term gabbro or gabbroic is applied as a general indicator of any mafic intrusive rock having a mineral assemblage dominated by plagioclase and pyroxene (either orthopyroxene or clinopyroxene). The 2019 drilling was focused on the Mine Block Intrusion.

Mine Block Intrusion

The MBI is a small, teardrop-shaped mafic complex with maximum dimensions of 3 by 1.5 kilometers with an elongation in an east-northeast direction (*see* Figure 6). The MBI consists of gabbroic (noritic) rocks and metamorphosed and/or hydrothermally altered equivalents with highly variable plagioclase-pyroxene proportions, textures and structures. Accessory igneous minerals include magnetite and titanium-rich magnetite, ilmenite, and quartz-feldspar granophyre. The MBI was emplaced into predominantly intermediate composition orthogneiss basement rocks. The emplacement age of the MBI has been established by precise uranium-lead zircon methods as 2,689 to 2,693 Ma (Stone and Davis 2006 and references contained therein). The MBI geology is dominated by gabbroic, melanogabbroic and leucogabbroic rock types. The common reference to gabbroic rather than noritic rocks in the many historical reports on the geology of the MBI is a reflection of the continued difficulty in distinguishing the composition of igneous pyroxenes in both outcrop and drill core. This difficulty has resulted in a mixed lithological nomenclature for the MBI in which gabbro, norite, and gabbronorite rock names have been somewhat interchangeably used. However, recent internal and external research has shown that the majority of the mafic rocks in the MBI, especially those associated with palladium mineralization, have clear noritic affinities such that orthopyroxene (as opposed to clinopyroxene) is the earliest-formed and generally most abundant igneous pyroxene in the rocks. In this way, the MBI has affinities to the mafic portions of better-documented mafic-ultramafic complexes such as the Bushveld Complex in South Africa, the Great Dyke in Zimbabwe and the Stillwater Complex in Montana, USA. In terms of its rock types, textures, and mineralization styles the western part of the MBI is generally analogous to the Platreef Deposit of the northern lobe of the Bushveld Complex (Kinnaird and MacDonald 2005; Kinnaird et al. 2005).

Textural and mineralogical variability is greatest in the outer margins of the MBI, especially along the well-documented western and northern margins that host most of the known palladium resources and palladium-rich mineralized zones on the Property. Commonly observed textures in the noritic marginal units of the MBI include equigranular, fine- to coarse-grained (seriate textured), porphyritic, pegmatitic and varitextured. The interior portions of the MBI consist of more regularly textured and evolved rock types including magnetite gabbro and leucogabbro (*see* Figure 6).

Varitextured gabbroic (VGAB) units in the northern and western margins locally occur within irregular shaped heterolithic gabbro breccia zones. The most common style of breccia in these areas contains cognate mafic to ultramafic xenoliths of highly variable form and size within a matrix of VGAB. Other styles of igneous breccias are locally observed in the MBI, including those containing abundant basement gneiss clasts and others having a pyroxenitic matrix and leucogabbro and/or VGAB clasts. Internal to the varitextured rim of the western and northern MBI is a foliated medium-grained gabbro referred to as equigranular gabbro (EGAB; formerly named “East Gabbro”). In the westernmost part of the MBI an informally named unit (pyroxenite = PYXT) is commonly developed along the contact between the VGAB unit (footwall side) and the EGAB unit (hanging wall side). In the central parts of both the Roby and Offset zones, the PYXT unit hosts most of the highest-grade palladium mineralization. Recent research has demonstrated that the PYXT unit is a highly sheared, schistose and recrystallized norite to melanorite originally comprising cumulus orthopyroxene, disseminated magmatic sulfides, cumulus and intercumulus plagioclase and minor intercumulus clinopyroxene. The continued use of this informal but petrologically inaccurate name (i.e., PYXT) reflects a decision to maintain consistency in referencing the major geological units in the LDI mine.

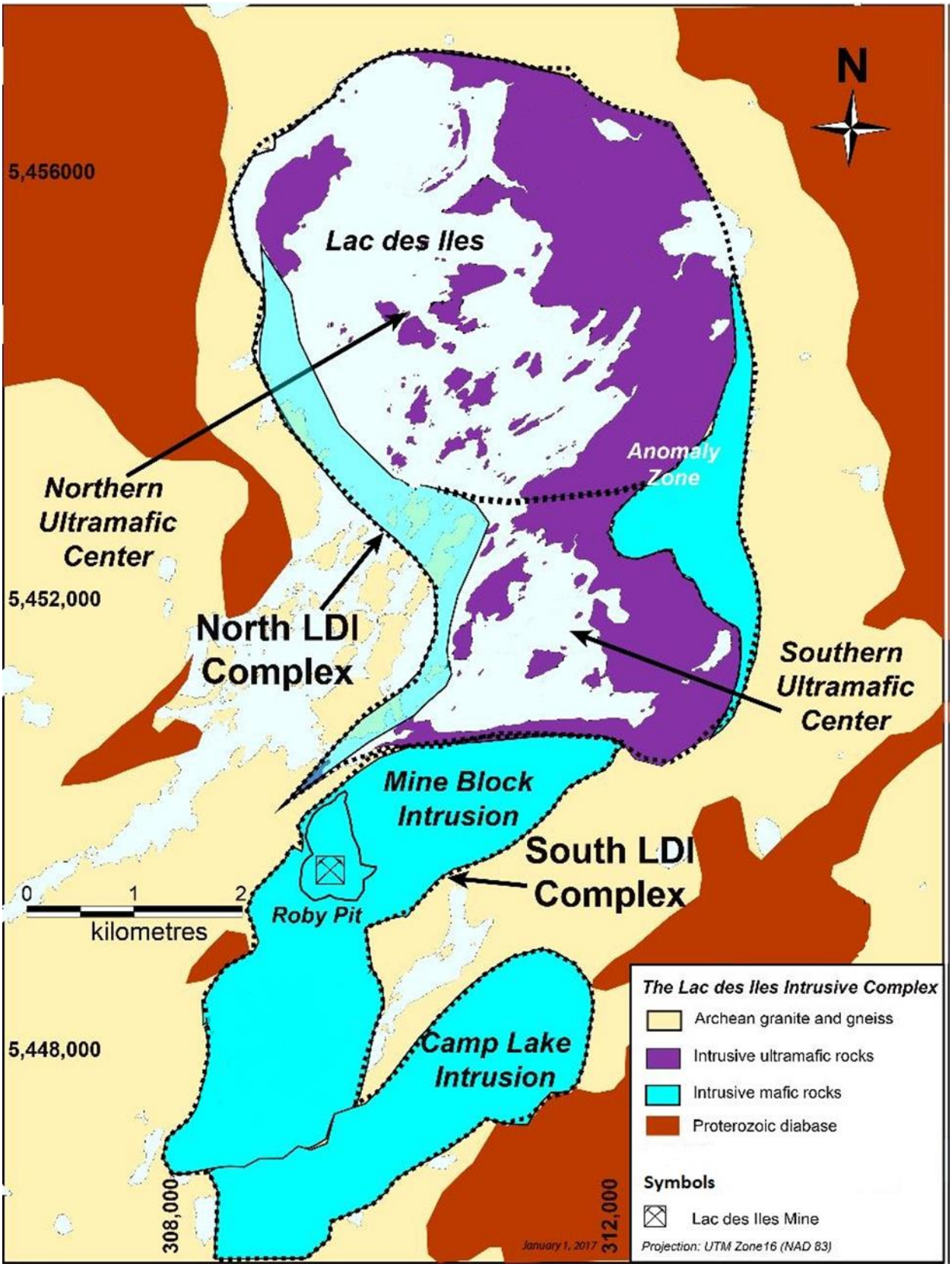

Figure 5: Simplified geology of the LDI intrusive complex (modified from Buss et al. 2017)

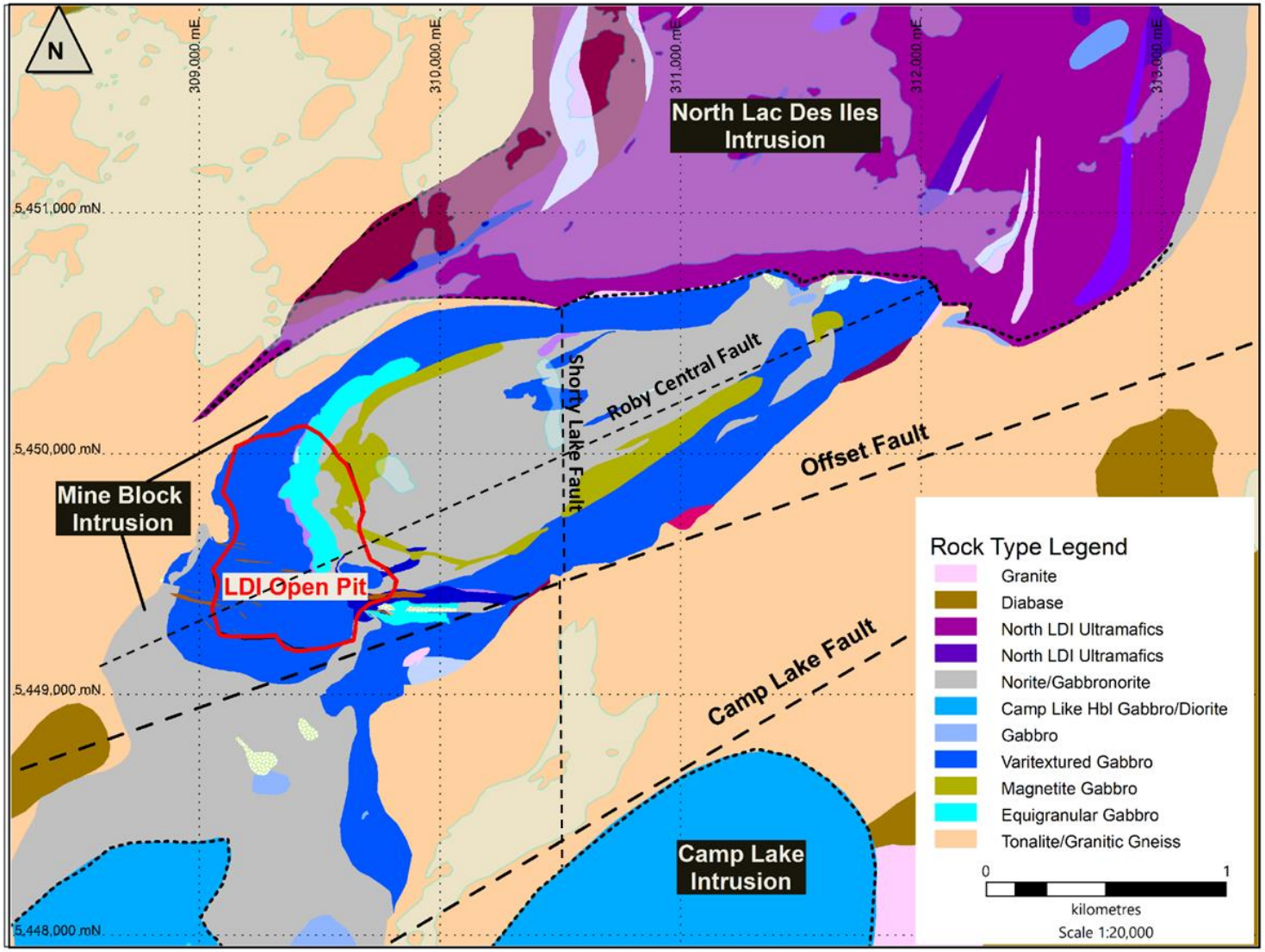

Figure 6: Simplified property geology, (modified from Buss et al. 2017)

Exploration History

1963: Discovery of Cu-Ni sulphide mineralization south of Lac des Iles by W. Baker and G. Moore. *(Lavigne et al, 2005).*

1963: Gunnex discovers the Texas Gulf Showing (formerly known as the "G" Zone.) The showing is described as large; at least 180 meters in diameter, dominated by a fine to medium-grained norite with disseminated sulphide. A sample returned anomalous copper and nickel (.32 percent) and negligible values of palladium, platinum and gold. *(Pye, 1968.)*

1966: Texas completes 3 diamond drillholes (534 meters) on the Texas Gulf Showing. Drillholes returned anomalous copper and nickel.

1974: Boston Bay Mining discovers the Roby Zone in surface drill holes.

1986: Geological Mapping and studies by *Sutcliffe*, *Sutcliffe and Sweeny* and others.

1993: Madeleine Mines changes name to North American Palladium (NAP). Open pit mining at commences at Lac Des Iles.

2000: 63 diamond drillhole program conducted by NAP. Offset Zone discovered.

2001: Major expansion to mining operations (~50,000 tpd) and milling (~16,000tpd.) *(Tait, 2012).* Drillholes 01-078 and 01-082 both intersected zones of mineralization carrying palladium grade south of the Roby Central Fault instead of intersecting the anticipated tonalite body.

2004: Underground development commences.

2006: Underground commercial production achieved (mining Roby Zone).

2008- Lac Des Iles Mine put on care and maintenance as a result of depressed commodity prices.

2010- Lac Des Iles restarts operations in May.

2012: NAP flies a VTEM and airborne magnetic survey over the LDI suite of properties, including the Mine Block Intrusion.

2013- Roby Zone open pit activities cease.

2014: Construction of 825 meter deep shaft was completed.

2015: Ground magnetic survey conducted by Abitibi Geophysics, south the Roby Open Pit.

2016: Start of transition from a long hole stoping to a sub level shrinkage (SLS) mining method. Production from the upper levels of SLS was achieved in the second half of 2016. Exploration completes 37 drillholes- primarily conversion drilling of the Lower Offset Zone and B2 Zone infill & expansion.

2017: Conversion to the SLS mining method in the Lower Offset Zone completed. Exploration completes 16 U/G diamond drillholes- 4 targeting Mystery Zone, 8 targeting Lower Offset, 3 targeting the Camp Lake block.

2018: Exploration completes 32 underground drillholes, targeting Offset South & Offset Deep Footwall/C-Zone. 4 surface drillholes were completed targeting the south west side of the Roby pit.

Exploration Plans and Permits

Exploration activities for the 2019 Roby Southwest Extension exploration program lie on Mining Lease 107911 (CLM 252). No permit was required for this program as all work on the property is covered by the Lac des Iles Mine Closure Plan.

2019 Diamond Drilling

Seven diamond drill holes totaling 2,274 meters were completed by one drill contractor. Major Drilling, based in Winnipeg, Manitoba, supplied one surface drill to complete the program and the drill operated for 36 days in total. A water truck was required for drilling as no water source was nearby. This resulted in an increased drilling cost. Upon completion of the drillhole, an exploration employee conducted a downhole survey using a Reflex Gyro tool and the drillhole was plugged at 12 meters depth and then cemented.

The purpose of this program was to test a poorly defined area to determine if mineralization in Roby Southwest continued within the magnetic low of the Roby Central Fault. It tested the extent of mineralization following two historic drillholes, 6.50 meters at 1.76 g/t and 39 meters at 0.98 g/t in drillhole 01-078 and 3.80 meters at 1.13g/t and 41.15 meters at 1.20 g/t in drillhole 01-082. The intercepts in drillhole 01-078 were described as being hosted in a medium-grained to coarse-grained gabbronorite and in a fine-grained to medium-grained norite yielding minor fine-grained to medium-grained disseminated and blebby pyrrhotite, chalcopyrite and pyrite. The intercepts in drillhole 01-082 were described as being hosted in a fine-grained to medium-grained gabbronorite and in a fine-grained to medium-grained norite yielding 0-0.75% chalcopyrite and pyrrhotite.

Results of the drilling program are summarized below with drill logs provided in Appendix B, and plan maps and cross sections provided in Appendix C. Drill core was taken from the surface drill and delivered to the logging area by Major Drilling employees. Each box was laid out in order, logged using Fusion software, and photographed by a geologist prior to the core being sawn and sampled using appropriate QAQC methods. Exploration personnel delivered samples to ALS Laboratories in Thunder Bay where they were processed and sent to Vancouver for analysis. A total of 1,561 samples were submitted for assay (1,439 samples and 122 QAQC articles), with totals for each hole outlined in Table 3. Assay highlights for the 2019 drill program are included in Table 4, with assay certificates in Appendix D.

Table 2: Diamond drillhole details. Co-ordinates reported in UTM NAD 83, Zone 16

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)
19-600	308929.18	5449019.11	498.07	307.31	-48.3	355
19-601	308829.93	5449069.90	503.82	304.53	-50.6	379
19-602	308800.50	5448843.85	496.78	306.03	-50.5	338
19-603	308658.63	5449075.87	514.79	305.67	-50.5	359
19-604	308539.86	5448834.28	512.71	304.59	-50.7	222.3
19-605	308643.99	5448726.13	517.63	305.69	-50.3	326
19-606	308942.67	5449305.68	501.88	304.45	-50.7	302

Table 3: Total samples submitted from the 2019 Roby SW Extension Project

Hole ID	Number of core samples sent for Assay (ALS)	Number of QA/QC items sent for Assay (ALS)	Total
19-600	317	25	
19-601	281	24	
19-602	261	22	
19-603	87	7	
19-604	84	7	
19-605	188	16	
19-606	221	21	
Total	1439	122	1561

Results

19-600

Purpose: This hole was designed to test whether mineralization in the historic drillholes extended west. Additionally, this hole was expected to intercept the Roby Central Fault to better define its location and the stratigraphy of Roby Southwest.

With a final depth of 355 meters, 19-600 collared into tonalite and intersected lithologies of varitextured gabbro, gabbro, norite, varitextured norite, and various crosscutting dikes. The drillhole hosted trace sulphide throughout with the exception of two short weakly mineralized intervals in varitextured norite and norite. This style and host of the sulphide mineralization was consistent with the lithology that hosted the historical assays in 2001 however, no elevated palladium assay values were returned. 19-600 did not intercept any major structures that couple represent the Roby central fault.

19-601

Purpose: This hole was designed to test whether mineralization in the historic drillholes extended southwest. Additionally, this hole was expected to intercept the Roby Central Fault to better define its location and the stratigraphy of Roby Southwest.

With a final depth of 379 meters, 19-601 collared into a varitextured norite with intermittent intervals of norite and intersected lithologies of varitextured gabbro and tonalite, respectively. The most sulphide mineralization was observed in the varitextured norite at 42-145 meters depth with up to 2% blebby pyrrhotite and chalcopyrite mineralization. This mineralization correlated with the highest assay value of 0.701 g/t Pd at 58-59 meters depth. 19-601 did not intercept the Roby Central Fault.

19-602

Purpose: This hole was testing the poorly defined area approximately 450 meters southwest of the historic drillholes to determine if mineralization in Roby SW could potentially continue within a magnetic low persisting along the Roby Central Fault.

With a final depth of 338 meters, 19-602 collared into tonalite and intersected lithologies of varitextured norite, norite, varitextured gabbro, and tonalite. The most mineralization occurred in norite at 258.90-

261.20 meters depth with 1.0% pyrrhotite and chalcopyrite however, no elevated palladium assay values were returned.

19-603

Purpose: This hole was testing the poorly defined area approximately 460 meters southwest of the historic drillholes to determine if mineralization in Roby Southwest could potentially continue within a magnetic low persisting along the Roby Central Fault. Additionally, this hole was expected to intersect the Roby Central Fault, and could help to better define its location.

With a final depth of 359 meters, 19-603 collared into a varitextured gabbro and intersected tonalite at 102.43 meters depth, which continued until the end of hole. Sulphide mineralization was trace throughout with up to 0.2% blebby pyrrhotite, chalcopyrite, and pyrite in the varitextured gabbro. No elevated palladium assay values were returned. 19-603 did not intercept the Roby central fault.

19-604

Purpose: This hole was testing the poorly defined area approximately 660 meters southwest of the historic drillholes to determine if mineralization in Roby Southwest could potentially continue within a magnetic low persisting along the Roby Central Fault.

With a final depth of 222.30 meters, 19-604 collared into diabase, intruding into gabbro and norite stratigraphy to a depth of 36.40 m. Varitextured gabbro continued to the tonalite contact at 105.15 meters depth with a small norite body within from 39.73-52.46 meters downhole. The tonalite continued to end of hole. The most mineralization occurred in the varitextured gabbro with 1.0% blebby pyrrhotite and chalcopyrite however, no elevated palladium assay values were returned.

19-605

Purpose: This hole was testing the poorly defined area approximately 650 meters southwest of the historic drillholes to determine if mineralization in Roby Southwest could potentially continue within a magnetic low persisting along the Roby Central Fault.

With a final depth of 326 meters, 19-605 collared into a meter of diabase, followed by tonalite to 53 meters. An intercalated package of varitextured gabbro, varitextured norite and norite was intersected until the tonalite basement at 229.50 meters depth, which continued to end of hole. The most mineralization occurred in varitextured norite at 75.50-103 meters depth with 0.5-1.0% blebby to interstitial pyrrhotite, chalcopyrite and pyrite however, no elevated palladium assay values were returned.

19-606

Purpose: This hole was designed to test whether mineralization in the historic drillholes extended west. Additionally, this hole was expected to intercept the Roby central fault, and could help to better define its location and the stratigraphy of Roby Southwest.

With a final depth of 302 meters, 19-606 collared into a varitextured gabbro and intersected lithologies of varitextured leucogabbro, norite, and tonalite. The most sulphide mineralization occurred 66.25-72.88 meters depth with 0.3% pyrrhotite, chalcopyrite and pyrite, which correlated to a zone of elevated palladium of 2.67 g/t Pd at 61-71 meters depth. The Roby Central Fault was not intersected.

Table 4: Assay Highlights from the 2019 Roby SW Extension Project

Hole ID	Nested	From	To	Length (m)	Pt (g/t)	Pd (g/t)	Au (g/t)	Ni (%)	Cu (%)
19-606		**40**	**41**	**1**	0.12	1.06	0.05	0.06	0.07
19-606		**61**	**71**	**10**	0.73	**2.67**	0.07	0.07	0.05
19-606	*incl.*	61	62	1	0.95	4.09	0.08	0.08	0.04
19-606	*with*	66	70	4	1.00	3.58	0.10	0.09	0.07

Conclusions and Recommendations

Sulphide-hosted palladium mineralization is hosted in a mix of lithologies with varitextured gabbro and varitextured norite typically carrying the most consistent sulphide content however, only the varitextured gabbro recorded in drillhole 19-606 carried potentially economic palladium grades returned in assay. The other six drillholes in the Roby SW Extension target program did not return economic palladium grade to warrant further drilling at this time. Future exploration in the area should focus on a very-low-frequency electromagnetic (VLF-EM) detailed survey to reveal locations of geological boundaries and structures and a drillhole to follow up on the elevated palladium assay interval in 19-606 (as shown in Table 4).

Statement of Expenditures

The total value of work completed on the 2019 Roby SW Extension Drilling Project is summarized in Table 5. All expenditures are allocated to lease block 107911 (CLM 252) and a more detailed statement of expenditures is summarized in Table 6.

Table 5: Statement of expenditures for claims on the Roby SW Extension Project

Total Costs	
Personnel (LDI & Contractors)	$38,090.00
Food and Accommodation (Camp)	$39,720.00
Transportation	$763.75
Fuel	$650.00
Drilling	$323,063.38
Assay Analyses	$44,098.79
Downhole Survey Equipment	$9,248.01
Total Expenditure	**$455,633.93**
Meters Drilled 2274	 CLM 252

Table 6: Detailed allocation of expenditures on the Roby SW Extension Project

Personnel	Days	Cost
Geologist (80 m/day @ $550/day)	28	$15,400.00
Geological Technician (100 m/day @ $425/day)	23	$9,775.00
Core Cutter (80 m/day @ $425/day)	28	$9,240.00
Supervisor (Max Days *.5 @ $525/day)	14	$3,675.00
Total Cost		**$38,090.00**

Food and Accommodation (Camp)	Days	Cost ($40/day)
Geologist (No. Days)	28	$1,120.00
GeoTech (No. Days Tech)	23	$920.00
GeoTech (No. Days Saw)	28	$1,120.00
Supervisor/Manager (No. Days*.5)	14	$560.00
Drill Crew (4 + Supervisor)	180	$36,000.00
Total Days	273	**$39,720.00**

Assay Analyses		
Total Cost		**$44,098.79**

Transport- Personnel		
FUEL-Personnel Trips To/From Mine (7x7 Rotation, 50L/trip @ $1.00/L)	8	$400.00
VEHICLE COSTS-Trips (125km/trip*/.47km for maintenance, insurance, registration, etc.)	8	$470.00
Total Cost		**$870.00**

Transport- Samples		
FUEL- Sample Trucks To From Lab (312 samples per trip, 50L/trip @ 1.00/L)	5	$250.00
VEHICLE COSTS (125km/trip*/.47km for maintenance, insurance, registration, etc.)	5	$293.75
Total transport cost		**$543.75**

Drilling	
Total Cost	**$323,063.38**

Drillhole Survey Equipment (Reflex SPRINTIQ and TN-14)	
April 20th to May 25th	$9,248.01
Total Cost	**$9,248.01**

References

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Statement of Qualifications

DAVID CHARLES BENSON
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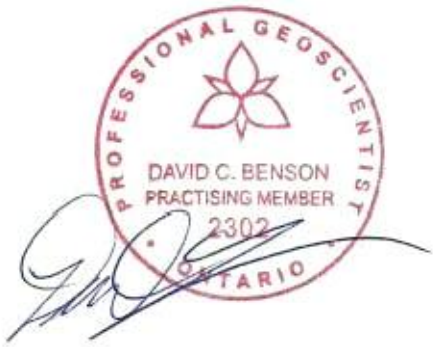
(204) 223-2281

1. I, David Benson, am a practicing professional geologist in both Ontario and Manitoba: APGO (#2302) and EGM (#25701).
2. I am a licenced Prospector in the Province of Ontario (#1012682) and have completed the Mining Act Awareness Program for Supervisors (#B7A9-447E-B5B3-CF67).
3. I graduated with a Bachelor's of Sciences degree (First Class Honours) in the Geological Sciences from the University of Manitoba in 2001.
4. I am currently the Exploration Manager for Impala Canada Ltd. and have been continually been employed by the company since 2012.
5. I have authored or co-authored seven (7) NI 43-101 Mineral Property Reports.

Respectfully submitted,



DATE: March 31st, 2021

David Benson
Exploration Manager
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Appendix A: List of Leases on which work was performed

Lease	Claim No.	Township	Parcel	Land Area (Hectares)	Lease Type	Due Date	Annual Taxes ($)	Comments
LEA-107911	CLM252	LAC DES ILES	2983L TB	341.4	21 Year Lease	2027-Aug-31	1,024	Surface and Mining Rights

Appendix B: Diamond drill logs

Detailed Log Report
Hole Number 19-600

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,405.15	**Length:**	355.00
Location:		**East:**	31,578.85	**Hole Size:**	NQ
Start Date:	Apr 20, 2019	**Elev:**	498.07	**Hole Type:**	DDH
Completed Date:	Apr 26, 2019	**Collar Dip:**	-48.25	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	307.31	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,019.11	**Multishot Survey:**	N
Start Log:	Apr 26, 2019	**East:**	308,929.18	**EOH:**	355.00
End Log:	Apr 29, 2019	**Elev:**	498.07	**Artesian Cond:**	No
Logged By 1:	Brigitte Gelinas	**Claim:**	253	**Abandon Reason:**	

Plugged:	N		
Pulse EM Survey:	N		

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	8.70	**OB**												
8.70	15.27	**TON**												

8.7 - 15.27m / Tonalite basement
White to pink, medium- to coarse-grained, foliated
tonalite basement.
60% pink to white plag, 40% mafic min.
strong to moderate k-alt on plag.
50cm thick diabase dike cutting across.
Diffused but distinct lower contact with diabase.
No min observed.

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
15.27	29.78	**DIKE-Mafic** 15.27 - 29.78m / Diabase Dark gray, fine-grained, massive diabase. Local anhedral plag phenos. Low-high mag (up to 40 kappa). Diffused but distinct lower contact with tonalite basement. No min observed.												
29.78	42.84	**TON** 29.78 - 42.84m / Tonalite basement White to pink, medium- to coarse-grained, foliated tonalite basement. 60% pink to white plag, 40% mafic min. strong to moderate k-alt on plag. Diffused but distinct upper contact with diabase. Sharp lower ctct with gabbro. Trace py as stringers or disseminated.	A0148946	ASSAY	TB19117750	38.00	39.00	1.00	0.003	0.003	0.004	0.017	0.003	0.001
			A0148947	ASSAY	TB19117750	39.00	40.00	1.00	0.001	0.003	0.006	0.046	0.001	0.002
			A0148948	ASSAY	TB19117750	40.00	41.00	1.00	0.002	0.003	0.002	0.011	0.002	0.001
			A0148949	ASSAY	TB19117750	41.00	42.00	1.00	0.001	0.003	0.003	0.013	0.003	0.001
			A0148950	ASSAY	TB19117750	42.00	42.81	0.81	0.002	0.003	0.003	0.009	0.009	0.002
			A0148951	ASSAY	TB19117750	42.81	44.00	1.19	0.002	0.003	0.004	0.010	0.023	0.004
42.84	58.13	**GAB-Vt** 42.85 - 58.13m / Varitexture gabbro Dark green, fine- to coarse-grained, massive, varitexture gabbro. 30% plag, 70% altered pyroxenes. Rare fine-grained intervals potentially representing breccia matrix. Moderate pervasive chl-act alt. Trace disseminated py min. Sharp upper contact with tonalite basement. Gradational lower contact with mg gabbro. Local tonalite xenos and felsic veins/veinlets.	A0148952	ASSAY	TB19117750	44.00	45.00	1.00	0.016	0.019	0.006	0.007	0.027	0.005
			A0148953	ASSAY	TB19117750	45.00	46.00	1.00	0.016	0.019	0.006	0.009	0.026	0.005
			A0148954	ASSAY	TB19117750	46.00	47.00	1.00	0.011	0.016	0.005	0.007	0.028	0.005
			A0148955	ASSAY	TB19117750	47.00	48.00	1.00	0.005	0.009	0.005	0.010	0.026	0.004
			A0148956	ASSAY	TB19117750	48.00	49.00	1.00	0.004	0.007	0.008	0.008	0.027	0.004
			A0148957	ASSAY	TB19117750	49.00	50.00	1.00	0.012	0.021	0.011	0.007	0.027	0.004
			A0148958	ASSAY	TB19117750	50.00	51.00	1.00	0.011	0.015	0.005	0.006	0.027	0.004
			A0148959	ASSAY	TB19117750	51.00	52.00	1.00	0.017	0.025	0.002	0.003	0.020	0.004
			A0148960	ASSAY	TB19117750	52.00	53.00	1.00	0.024	0.033	0.001	0.001	0.027	0.004
			A0148962	ASSAY	TB19117750	53.00	54.00	1.00	0.020	0.030	0.003	0.003	0.029	0.004
			A0148963	ASSAY	TB19117750	54.00	55.00	1.00	0.016	0.019	0.018	0.005	0.028	0.004
			A0148964	ASSAY	TB19117750	55.00	56.00	1.00	0.022	0.015	0.009	0.009	0.028	0.005
			A0148965	ASSAY	TB19117750	56.00	57.00	1.00	0.015	0.019	0.009	0.008	0.030	0.005
			A0148966	ASSAY	TB19117750	57.00	58.13	1.13	0.016	0.021	0.018	0.011	0.032	0.005

From	To	Lithology
58.13	93.16	**GAB**

58.13 - 93.16m / Gabbro
Dark green, medium-grained, massive, strongly altered gabbro.
20% plag, 80% altered pyroxene. Local short (<10cm) pegmatitic GAB intervals.
Strong pervasive chl-act alt.
Trace disseminated py min.
Tonalite xeno and qtz vein in a shear/fault zone associated with foliation along margins and fractured rock. Local tonalite xeno and felsic veins/veinlets.
Lower and upper ctct with GAB VT are gradational.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0148967	ASSAY	TB19117750	58.13	59.00	0.87	0.017	0.025	0.019	0.012	0.031	0.005
A0148968	ASSAY	TB19117750	59.00	60.00	1.00	0.021	0.028	0.022	0.011	0.031	0.005
A0148969	ASSAY	TB19117750	60.00	61.00	1.00	0.020	0.027	0.013	0.009	0.030	0.005
A0148970	ASSAY	TB19117750	61.00	62.00	1.00	0.023	0.029	0.013	0.008	0.032	0.005
A0148971	ASSAY	TB19117750	62.00	63.00	1.00	0.022	0.029	0.017	0.011	0.029	0.005
A0148972	ASSAY	TB19117750	63.00	64.00	1.00	0.024	0.034	0.014	0.011	0.031	0.005
A0148973	ASSAY	TB19117750	64.00	65.00	1.00	0.017	0.025	0.007	0.007	0.024	0.004
A0148974	ASSAY	TB19117750	65.00	66.00	1.00	0.008	0.012	0.003	0.005	0.014	0.003
A0148975	ASSAY	TB19117750	66.00	67.00	1.00	0.025	0.033	0.015	0.009	0.033	0.005
A0148976	ASSAY	TB19117750	67.00	68.00	1.00	0.024	0.036	0.019	0.010	0.034	0.005
A0148977	ASSAY	TB19117750	68.00	69.00	1.00	0.026	0.037	0.021	0.010	0.034	0.005
A0148981	ASSAY	TB19117749	69.00	70.00	1.00	0.022	0.036	0.022	0.012	0.035	0.005
A0148982	ASSAY	TB19117749	70.00	71.00	1.00	0.020	0.033	0.026	0.010	0.038	0.005
A0148983	ASSAY	TB19117749	71.00	72.00	1.00	0.017	0.029	0.031	0.012	0.041	0.006
A0148984	ASSAY	TB19117749	72.00	73.00	1.00	0.016	0.028	0.024	0.010	0.040	0.006
A0148985	ASSAY	TB19117749	73.00	74.00	1.00	0.019	0.032	0.015	0.007	0.037	0.005
A0148986	ASSAY	TB19117749	74.00	75.00	1.00	0.016	0.013	0.016	0.015	0.033	0.005
A0148987	ASSAY	TB19117749	75.00	76.00	1.00	0.028	0.027	0.025	0.021	0.037	0.006
A0148988	ASSAY	TB19117749	76.00	77.00	1.00	0.015	0.029	0.025	0.009	0.040	0.006
A0148989	ASSAY	TB19117749	77.00	78.00	1.00	0.013	0.026	0.024	0.013	0.037	0.006
A0148990	ASSAY	TB19117749	78.00	79.00	1.00	0.014	0.026	0.026	0.012	0.037	0.006
A0148991	ASSAY	TB19117749	79.00	80.00	1.00	0.014	0.019	0.018	0.012	0.033	0.005
A0148992	ASSAY	TB19117749	80.00	81.00	1.00	0.011	0.019	0.023	0.010	0.035	0.005
A0148993	ASSAY	TB19117749	81.00	82.00	1.00	0.010	0.020	0.023	0.011	0.035	0.005
A0148994	ASSAY	TB19117749	82.00	83.00	1.00	0.016	0.029	0.027	0.011	0.038	0.005
A0148995	ASSAY	TB19117749	83.00	84.00	1.00	0.010	0.019	0.016	0.011	0.037	0.005
A0148996	ASSAY	TB19117749	84.00	85.00	1.00	0.016	0.028	0.025	0.011	0.037	0.005
A0148997	ASSAY	TB19117749	85.00	86.00	1.00	0.015	0.025	0.019	0.011	0.037	0.006
A0148998	ASSAY	TB19117749	86.00	87.00	1.00	0.014	0.025	0.012	0.008	0.035	0.005
A0149000	ASSAY	TB19117749	87.00	88.00	1.00	0.014	0.025	0.014	0.007	0.035	0.005
A0149001	ASSAY	TB19117749	88.00	89.00	1.00	0.017	0.029	0.022	0.010	0.037	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149002	ASSAY	TB19117749	89.00	90.00	1.00	0.016	0.028	0.022	0.009	0.038	0.006
			A0149003	ASSAY	TB19117749	90.00	91.00	1.00	0.017	0.029	0.023	0.009	0.038	0.006
			A0149004	ASSAY	TB19117749	91.00	92.00	1.00	0.016	0.028	0.020	0.010	0.035	0.006
			A0149005	ASSAY	TB19117749	92.00	93.16	1.16	0.018	0.029	0.019	0.011	0.032	0.006
93.16	101.78	**GAB-Vt** 93.16 - 101.78m / Varitexture gabbro Dark green, fine- to coarse-grained, massive, varitexture gabbro. 30% plag, 70% altered pyroxene. Trace disseminated py min. Moderate pervasive chl-act alt. Lower ctct marked by tonalite xeno and shearing.	A0149006	ASSAY	TB19117749	93.16	94.00	0.84	0.020	0.018	0.018	0.018	0.035	0.006
			A0149007	ASSAY	TB19117749	94.00	95.00	1.00	0.026	0.026	0.016	0.014	0.035	0.006
			A0149008	ASSAY	TB19117749	95.00	96.00	1.00	0.015	0.025	0.010	0.007	0.033	0.006
			A0149009	ASSAY	TB19117749	96.00	97.00	1.00	0.014	0.026	0.011	0.007	0.031	0.006
			A0149010	ASSAY	TB19117749	97.00	98.00	1.00	0.031	0.025	0.013	0.011	0.034	0.006
			A0149011	ASSAY	TB19117749	98.00	99.00	1.00	0.013	0.017	0.016	0.017	0.034	0.006
			A0149012	ASSAY	TB19117749	99.00	100.00	1.00	0.011	0.012	0.013	0.018	0.032	0.005
			A0149013	ASSAY	TB19117749	100.00	100.87	0.87	0.015	0.025	0.019	0.012	0.036	0.006
			A0149014	ASSAY	TB19117749	100.87	101.78	0.91	0.015	0.027	0.012	0.010	0.037	0.006

From	To	Lithology
101.78	124.12	**GAB**

101.78 - 124.12m / Gabbro
Dark green, medium- to fine-grained, massive gabbro.
20% plag, 80% altered pyroxene.
Strong pervasive chl-act alt.
Trace disseminated py min, with local interval with up to 0.2%.
Gradational lower contact with altered norite.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149015	ASSAY	TB19117749	101.78	103.00	1.22	0.004	0.008	0.003	0.003	0.011	0.002
A0149016	ASSAY	TB19117749	103.00	104.00	1.00	0.017	0.030	0.009	0.008	0.035	0.005
A0149017	ASSAY	TB19117749	104.00	105.00	1.00	0.014	0.026	0.015	0.009	0.037	0.006
A0149018	ASSAY	TB19117749	105.00	106.00	1.00	0.015	0.026	0.012	0.008	0.035	0.005
A0149020	ASSAY	TB19117749	106.00	107.00	1.00	0.014	0.027	0.016	0.010	0.035	0.006
A0149021	ASSAY	TB19117749	107.00	108.00	1.00	0.015	0.025	0.024	0.014	0.037	0.006
A0149022	ASSAY	TB19117749	108.00	109.00	1.00	0.021	0.024	0.021	0.013	0.035	0.006
A0149023	ASSAY	TB19117749	109.00	110.00	1.00	0.120	0.036	0.027	0.022	0.047	0.007
A0149024	ASSAY	TB19117749	110.00	111.00	1.00	0.037	0.023	0.017	0.015	0.036	0.006
A0149025	ASSAY	TB19117749	111.00	112.00	1.00	0.014	0.025	0.012	0.007	0.034	0.006
A0149026	ASSAY	TB19117749	112.00	113.00	1.00	0.016	0.028	0.012	0.005	0.036	0.006
A0149027	ASSAY	TB19117749	113.00	114.00	1.00	0.017	0.027	0.019	0.008	0.037	0.006
A0149028	ASSAY	TB19117749	114.00	115.00	1.00	0.016	0.028	0.022	0.010	0.041	0.007
A0149029	ASSAY	TB19117749	115.00	116.00	1.00	0.016	0.026	0.022	0.009	0.042	0.006
A0149030	ASSAY	TB19117749	116.00	117.00	1.00	0.017	0.028	0.024	0.009	0.038	0.006
A0149031	ASSAY	TB19117749	117.00	118.00	1.00	0.016	0.027	0.021	0.009	0.039	0.006
A0149032	ASSAY	TB19117749	118.00	119.00	1.00	0.017	0.028	0.021	0.010	0.037	0.006
A0149033	ASSAY	TB19117749	119.00	120.00	1.00	0.018	0.031	0.027	0.012	0.038	0.006
A0149034	ASSAY	TB19117749	120.00	121.00	1.00	0.017	0.030	0.025	0.010	0.039	0.006
A0149035	ASSAY	TB19117749	121.00	122.00	1.00	0.016	0.029	0.023	0.012	0.037	0.006
A0149036	ASSAY	TB19117749	122.00	123.00	1.00	0.015	0.026	0.023	0.011	0.035	0.006
A0149037	ASSAY	TB19117749	123.00	124.12	1.12	0.016	0.030	0.025	0.011	0.038	0.006

From	To	Lithology
124.12	150.21	**NOR** 124.12 - 150.21m / Norite Dark green to dark purple, fine- to medium-grained, massive norite. 10% plag, 90% altered pyroxene. Strong to moderate pervasive chl-act alt. Trace py min with rare po-ccp. Gradational upper contact with gabbro and gradational lower contact with VT NOR.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149038	ASSAY	TB19117749	124.12	125.00	0.88	0.017	0.028	0.025	0.011	0.037	0.006
A0149040	ASSAY	TB19117749	125.00	126.00	1.00	0.017	0.029	0.025	0.011	0.038	0.006
A0149041	ASSAY	TB19117749	126.00	127.00	1.00	0.017	0.028	0.025	0.011	0.039	0.006
A0149042	ASSAY	TB19117749	127.00	128.00	1.00	0.016	0.027	0.026	0.011	0.035	0.006
A0149043	ASSAY	TB19117749	128.00	129.00	1.00	0.016	0.026	0.021	0.011	0.034	0.006
A0149044	ASSAY	TB19117749	129.00	130.00	1.00	0.016	0.024	0.020	0.011	0.034	0.006
A0149045	ASSAY	TB19117749	130.00	131.00	1.00	0.016	0.021	0.018	0.012	0.031	0.006
A0149046	ASSAY	TB19117749	131.00	132.00	1.00	0.017	0.027	0.020	0.012	0.036	0.006
A0149047	ASSAY	TB19117749	132.00	133.00	1.00	0.015	0.017	0.012	0.012	0.032	0.006
A0149048	ASSAY	TB19117749	133.00	134.00	1.00	0.013	0.009	0.008	0.012	0.023	0.006
A0149049	ASSAY	TB19117749	134.00	135.00	1.00	0.014	0.026	0.024	0.012	0.038	0.006
A0149050	ASSAY	TB19117749	135.00	136.00	1.00	0.022	0.032	0.025	0.014	0.038	0.005
A0149051	ASSAY	TB19117749	136.00	137.00	1.00	0.018	0.028	0.023	0.012	0.039	0.006
A0149052	ASSAY	TB19117749	137.00	138.00	1.00	0.028	0.031	0.027	0.014	0.042	0.006
A0149053	ASSAY	TB19117749	138.00	139.00	1.00	0.018	0.026	0.023	0.011	0.039	0.006
A0149054	ASSAY	TB19117749	139.00	140.00	1.00	0.017	0.029	0.025	0.013	0.042	0.006
A0149055	ASSAY	TB19117749	140.00	141.00	1.00	0.017	0.027	0.024	0.013	0.042	0.006
A0149059	ASSAY	TB19117747	141.00	142.00	1.00	0.017	0.026	0.025	0.013	0.039	0.006
A0149060	ASSAY	TB19117747	142.00	143.00	1.00	0.024	0.031	0.029	0.015	0.042	0.006
A0149061	ASSAY	TB19117747	143.00	144.00	1.00	0.017	0.026	0.024	0.014	0.039	0.006
A0149062	ASSAY	TB19117747	144.00	145.00	1.00	0.016	0.025	0.024	0.016	0.047	0.007
A0149063	ASSAY	TB19117747	145.00	146.00	1.00	0.017	0.027	0.023	0.013	0.041	0.006
A0149064	ASSAY	TB19117747	146.00	147.00	1.00	0.018	0.025	0.026	0.014	0.043	0.007
A0149065	ASSAY	TB19117747	147.00	148.00	1.00	0.016	0.025	0.021	0.013	0.039	0.006
A0149066	ASSAY	TB19117747	148.00	149.00	1.00	0.016	0.024	0.024	0.014	0.043	0.006
A0149067	ASSAY	TB19117747	149.00	150.21	1.21	0.028	0.027	0.027	0.015	0.041	0.006

From	To	Lithology
150.21	173.65	**NOR-Vt** 150.21 - 173.65m / Varitexture Norite Dark green, fine- to coarse-grained, massive, varitexture norite. 20-30% white to purple plag, 70-80% altered pyroxene. Local short NOR intervals. VT locally looks like GAB VT. Strong to moderate pervasive chl-act alt. Mineralization ranges from trace to 0.3% Po-Cpy-Py with local 30cm thick 0.5% intervals. A 30cm thick fg bx matrix (?) interval is magnetic (280 kappa) and also host 0.5% disseminated Po-Cpy-Py concentrated along its margins and lesser within. Lower contact is marked by a foliated zone, then into NOR.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149068	ASSAY	TB19117747	150.21	151.00	0.79	0.143	0.068	0.033	0.031	0.047	0.006
A0149069	ASSAY	TB19117747	151.00	152.00	1.00	0.025	0.015	0.015	0.016	0.033	0.005
A0149070	ASSAY	TB19117747	152.00	153.00	1.00	0.035	0.008	0.023	0.039	0.034	0.007
A0149071	ASSAY	TB19117747	153.00	154.00	1.00	0.019	0.005	0.009	0.013	0.026	0.005
A0149072	ASSAY	TB19117747	154.00	155.00	1.00	0.023	0.003	0.018	0.021	0.026	0.006
A0149073	ASSAY	TB19117747	155.00	156.00	1.00	0.003	0.003	0.008	0.012	0.029	0.005
A0149074	ASSAY	TB19117747	156.00	157.00	1.00	0.024	0.013	0.007	0.008	0.027	0.004
A0149075	ASSAY	TB19117747	157.00	158.00	1.00	0.023	0.008	0.009	0.014	0.030	0.005
A0149076	ASSAY	TB19117747	158.00	159.00	1.00	0.010	0.003	0.007	0.010	0.028	0.005
A0149078	ASSAY	TB19117747	159.00	160.00	1.00	0.026	0.003	0.008	0.017	0.029	0.005
A0149079	ASSAY	TB19117747	160.00	161.00	1.00	0.043	0.023	0.009	0.011	0.027	0.004
A0149080	ASSAY	TB19117747	161.00	162.00	1.00	0.063	0.034	0.010	0.010	0.027	0.004
A0149081	ASSAY	TB19117747	162.00	163.00	1.00	0.040	0.017	0.012	0.012	0.027	0.005
A0149082	ASSAY	TB19117747	163.00	164.00	1.00	0.073	0.036	0.028	0.033	0.045	0.006
A0149083	ASSAY	TB19117747	164.00	165.00	1.00	0.036	0.027	0.029	0.021	0.039	0.006
A0149084	ASSAY	TB19117747	165.00	166.00	1.00	0.095	0.036	0.024	0.019	0.040	0.006
A0149085	ASSAY	TB19117747	166.00	167.00	1.00	0.072	0.030	0.015	0.014	0.031	0.005
A0149086	ASSAY	TB19117747	167.00	168.00	1.00	0.018	0.022	0.030	0.015	0.040	0.006
A0149087	ASSAY	TB19117747	168.00	169.00	1.00	0.019	0.026	0.032	0.015	0.046	0.007
A0149088	ASSAY	TB19117747	169.00	170.00	1.00	0.026	0.028	0.025	0.011	0.044	0.006
A0149089	ASSAY	TB19117747	170.00	171.00	1.00	0.022	0.025	0.023	0.010	0.044	0.006
A0149090	ASSAY	TB19117747	171.00	172.00	1.00	0.033	0.032	0.023	0.013	0.039	0.006
A0149091	ASSAY	TB19117747	172.00	172.85	0.85	0.018	0.027	0.021	0.009	0.042	0.006
A0149092	ASSAY	TB19117747	172.85	173.65	0.80	0.018	0.027	0.024	0.010	0.045	0.006

From	To	Lithology
173.65	284.21	**NOR**

173.65 - 284.21m / Norite
Dark green to purple, medium-grained, massive norite.
10% purple to white plag, 90% altered to fresh pyroxene. Local fine-grained intervals likely representing NOR BX matrix, but unit is mainly dominated by NOR. Local late short pegmatitic GAB intervals present.
Weak to strong pervasive chl-act alt. Consistently weak alt from 219.67m to end of unit.
Trace-0.2% po-cpy-py with local interval of 0.5% intercumulus to disseminated Po-Cpy over 201.88-204.88m hosted in both strongly and weakly altered norite. Min doesn't seem to be associated with alteration, as the majority of the min is in weakly altered NOR.
Local tonalite xenos, and felsic veins (<5cm thick).
Unit is completely massive from 219m to 284m, no structures logged.
Sharp lower ctct with VT GAB

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149093	ASSAY	TB19117747	173.65	175.00	1.35	0.016	0.025	0.025	0.010	0.045	0.006
A0149094	ASSAY	TB19117747	175.00	176.00	1.00	0.013	0.026	0.032	0.012	0.042	0.006
A0149095	ASSAY	TB19117747	176.00	177.00	1.00	0.018	0.028	0.029	0.011	0.046	0.006
A0149096	ASSAY	TB19117747	177.00	178.00	1.00	0.017	0.025	0.025	0.012	0.043	0.006
A0149098	ASSAY	TB19117747	178.00	179.00	1.00	0.058	0.033	0.025	0.019	0.042	0.006
A0149099	ASSAY	TB19117747	179.00	180.00	1.00	0.026	0.022	0.015	0.015	0.037	0.005
A0149100	ASSAY	TB19117747	180.00	181.00	1.00	0.019	0.029	0.026	0.012	0.045	0.006
A0149101	ASSAY	TB19117747	181.00	182.00	1.00	0.015	0.023	0.021	0.009	0.039	0.005
A0149102	ASSAY	TB19117747	182.00	183.00	1.00	0.031	0.022	0.013	0.018	0.035	0.005
A0149103	ASSAY	TB19117747	183.00	184.00	1.00	0.126	0.052	0.033	0.040	0.056	0.006
A0149104	ASSAY	TB19117747	184.00	185.00	1.00	0.029	0.034	0.015	0.013	0.037	0.006
A0149105	ASSAY	TB19117747	185.00	186.00	1.00	0.022	0.031	0.012	0.009	0.039	0.006
A0149106	ASSAY	TB19117747	186.00	187.00	1.00	0.019	0.029	0.019	0.009	0.044	0.006
A0149107	ASSAY	TB19117747	187.00	188.00	1.00	0.016	0.026	0.015	0.009	0.043	0.006
A0149108	ASSAY	TB19117747	188.00	189.00	1.00	0.019	0.028	0.011	0.009	0.032	0.005
A0149109	ASSAY	TB19117747	189.00	190.00	1.00	0.018	0.017	0.009	0.014	0.030	0.005
A0149110	ASSAY	TB19117747	190.00	191.00	1.00	0.024	0.029	0.013	0.010	0.045	0.006
A0149111	ASSAY	TB19117747	191.00	192.00	1.00	0.033	0.020	0.014	0.016	0.038	0.006
A0149112	ASSAY	TB19117747	192.00	193.00	1.00	0.029	0.022	0.022	0.012	0.044	0.006
A0149113	ASSAY	TB19117747	193.00	194.00	1.00	0.022	0.028	0.020	0.009	0.051	0.007
A0149114	ASSAY	TB19117747	194.00	195.00	1.00	0.027	0.033	0.029	0.013	0.055	0.007
A0149115	ASSAY	TB19117747	195.00	196.00	1.00	0.033	0.037	0.041	0.023	0.064	0.008
A0149116	ASSAY	TB19117747	196.00	197.00	1.00	0.025	0.033	0.030	0.014	0.055	0.007
A0149118	ASSAY	TB19117747	197.00	198.00	1.00	0.025	0.032	0.033	0.017	0.062	0.007
A0149119	ASSAY	TB19117747	198.00	199.00	1.00	0.022	0.031	0.027	0.011	0.052	0.007
A0149120	ASSAY	TB19117747	199.00	200.00	1.00	0.019	0.028	0.032	0.014	0.050	0.007
A0149121	ASSAY	TB19117747	200.00	201.00	1.00	0.026	0.032	0.027	0.011	0.050	0.006
A0149122	ASSAY	TB19117747	201.00	202.00	1.00	0.038	0.034	0.040	0.021	0.054	0.007
A0149123	ASSAY	TB19117747	202.00	203.00	1.00	0.061	0.034	0.054	0.068	0.064	0.007
A0149124	ASSAY	TB19117747	203.00	204.00	1.00	0.031	0.028	0.020	0.034	0.037	0.006
A0149125	ASSAY	TB19117747	204.00	205.00	1.00	0.027	0.030	0.028	0.033	0.042	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149126	ASSAY	TB19117747	205.00	206.00	1.00	0.045	0.021	0.011	0.014	0.031	0.005
			A0149127	ASSAY	TB19117747	206.00	207.00	1.00	0.038	0.010	0.010	0.017	0.027	0.005
			A0149128	ASSAY	TB19117747	207.00	208.00	1.00	0.024	0.006	0.003	0.014	0.023	0.006
			A0149129	ASSAY	TB19117747	208.00	209.00	1.00	0.005	0.003	0.001	0.017	0.021	0.005
			A0149130	ASSAY	TB19117747	209.00	210.00	1.00	0.001	0.003	0.001	0.013	0.020	0.005
			A0149131	ASSAY	TB19117747	210.00	211.00	1.00	0.013	0.003	0.006	0.016	0.021	0.005
			A0149132	ASSAY	TB19117747	211.00	212.00	1.00	0.020	0.023	0.020	0.025	0.037	0.006
			A0149133	ASSAY	TB19117747	212.00	213.00	1.00	0.023	0.033	0.030	0.022	0.044	0.007
			A0149137	ASSAY	TB19114124	213.00	214.00	1.00	0.022	0.029	0.024	0.019	0.038	0.007
			A0149138	ASSAY	TB19114124	214.00	215.00	1.00	0.028	0.034	0.021	0.010	0.039	0.007
			A0149139	ASSAY	TB19114124	215.00	216.00	1.00	0.024	0.033	0.022	0.009	0.042	0.007
			A0149140	ASSAY	TB19114124	216.00	217.00	1.00	0.024	0.036	0.023	0.008	0.045	0.007
			A0149141	ASSAY	TB19114124	217.00	218.00	1.00	0.025	0.035	0.023	0.010	0.048	0.007
			A0149142	ASSAY	TB19114124	218.00	219.00	1.00	0.024	0.031	0.022	0.010	0.046	0.007
			A0149143	ASSAY	TB19114124	219.00	220.00	1.00	0.022	0.030	0.020	0.011	0.043	0.006
			A0149144	ASSAY	TB19114124	220.00	221.00	1.00	0.025	0.031	0.022	0.013	0.054	0.008
			A0149145	ASSAY	TB19114124	221.00	222.00	1.00	0.026	0.025	0.015	0.016	0.043	0.007
			A0149146	ASSAY	TB19114124	222.00	223.00	1.00	0.040	0.033	0.022	0.020	0.052	0.009
			A0149147	ASSAY	TB19114124	223.00	224.00	1.00	0.026	0.030	0.022	0.015	0.052	0.008
			A0149148	ASSAY	TB19114124	224.00	225.00	1.00	0.025	0.030	0.019	0.015	0.049	0.008
			A0149149	ASSAY	TB19114124	225.00	226.00	1.00	0.025	0.013	0.021	0.019	0.038	0.006
			A0149150	ASSAY	TB19114124	226.00	227.00	1.00	0.021	0.021	0.017	0.015	0.047	0.007
			A0149151	ASSAY	TB19114124	227.00	228.00	1.00	0.035	0.037	0.027	0.018	0.059	0.008
			A0149152	ASSAY	TB19114124	228.00	229.00	1.00	0.030	0.031	0.022	0.018	0.057	0.008
			A0149153	ASSAY	TB19114124	229.00	230.00	1.00	0.028	0.031	0.018	0.013	0.052	0.008
			A0149154	ASSAY	TB19114124	230.00	231.00	1.00	0.027	0.032	0.028	0.015	0.053	0.008
			A0149156	ASSAY	TB19114124	231.00	232.00	1.00	0.018	0.032	0.023	0.012	0.038	0.006
			A0149157	ASSAY	TB19114124	232.00	233.00	1.00	0.051	0.061	0.066	0.028	0.056	0.007
			A0149158	ASSAY	TB19114124	233.00	234.00	1.00	0.025	0.035	0.027	0.015	0.045	0.006
			A0149159	ASSAY	TB19114124	234.00	235.00	1.00	0.017	0.029	0.022	0.011	0.039	0.006
			A0149160	ASSAY	TB19114124	235.00	236.00	1.00	0.016	0.028	0.023	0.011	0.037	0.005
			A0149161	ASSAY	TB19114124	236.00	237.00	1.00	0.014	0.027	0.017	0.011	0.036	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149162	ASSAY	TB19114124	237.00	238.00	1.00	0.013	0.024	0.016	0.010	0.034	0.005
			A0149163	ASSAY	TB19114124	238.00	239.00	1.00	0.015	0.029	0.017	0.010	0.035	0.005
			A0149164	ASSAY	TB19114124	239.00	240.00	1.00	0.015	0.021	0.018	0.013	0.039	0.006
			A0149165	ASSAY	TB19114124	240.00	241.00	1.00	0.021	0.032	0.017	0.011	0.036	0.005
			A0149166	ASSAY	TB19114124	241.00	242.00	1.00	0.023	0.035	0.019	0.010	0.034	0.005
			A0149167	ASSAY	TB19114124	242.00	243.00	1.00	0.032	0.039	0.035	0.016	0.048	0.006
			A0149168	ASSAY	TB19114124	243.00	244.00	1.00	0.022	0.026	0.017	0.014	0.052	0.007
			A0149169	ASSAY	TB19114124	244.00	245.00	1.00	0.030	0.038	0.032	0.019	0.048	0.006
			A0149170	ASSAY	TB19114124	245.00	246.00	1.00	0.016	0.024	0.023	0.014	0.047	0.007
			A0149171	ASSAY	TB19114124	246.00	247.00	1.00	0.014	0.021	0.018	0.012	0.046	0.007
			A0149172	ASSAY	TB19114124	247.00	248.00	1.00	0.020	0.023	0.014	0.010	0.052	0.008
			A0149173	ASSAY	TB19114124	248.00	249.00	1.00	0.021	0.022	0.016	0.014	0.048	0.007
			A0149174	ASSAY	TB19114124	249.00	250.00	1.00	0.023	0.025	0.017	0.013	0.053	0.008
			A0149176	ASSAY	TB19114124	250.00	251.00	1.00	0.011	0.011	0.009	0.019	0.039	0.005
			A0149177	ASSAY	TB19114124	251.00	252.00	1.00	0.025	0.026	0.017	0.015	0.051	0.008
			A0149178	ASSAY	TB19114124	252.00	253.00	1.00	0.025	0.025	0.020	0.014	0.053	0.008
			A0149179	ASSAY	TB19114124	253.00	254.00	1.00	0.026	0.027	0.016	0.015	0.047	0.007
			A0149180	ASSAY	TB19114124	254.00	255.00	1.00	0.024	0.027	0.017	0.013	0.055	0.008
			A0149181	ASSAY	TB19114124	255.00	256.00	1.00	0.026	0.028	0.019	0.011	0.057	0.008
			A0149182	ASSAY	TB19114124	256.00	257.00	1.00	0.021	0.030	0.017	0.010	0.044	0.007
			A0149183	ASSAY	TB19114124	257.00	258.00	1.00	0.026	0.038	0.016	0.008	0.032	0.005
			A0149184	ASSAY	TB19114124	258.00	259.00	1.00	0.022	0.032	0.022	0.010	0.040	0.006
			A0149185	ASSAY	TB19114124	259.00	260.00	1.00	0.028	0.028	0.022	0.015	0.059	0.008
			A0149186	ASSAY	TB19114124	260.00	261.00	1.00	0.024	0.025	0.022	0.014	0.056	0.008
			A0149187	ASSAY	TB19114124	261.00	262.00	1.00	0.024	0.026	0.020	0.014	0.056	0.008
			A0149188	ASSAY	TB19114124	262.00	263.00	1.00	0.025	0.025	0.017	0.013	0.056	0.008
			A0149189	ASSAY	TB19114124	263.00	264.00	1.00	0.024	0.026	0.019	0.015	0.057	0.008
			A0149190	ASSAY	TB19114124	264.00	265.00	1.00	0.022	0.025	0.017	0.014	0.053	0.007
			A0149191	ASSAY	TB19114124	265.00	266.00	1.00	0.024	0.023	0.019	0.014	0.056	0.008
			A0149192	ASSAY	TB19114124	266.00	267.00	1.00	0.023	0.025	0.018	0.015	0.057	0.008
			A0149193	ASSAY	TB19114124	267.00	268.00	1.00	0.027	0.028	0.019	0.016	0.057	0.008
			A0149194	ASSAY	TB19114124	268.00	269.00	1.00	0.025	0.030	0.017	0.013	0.052	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149196	ASSAY	TB19114124	269.00	270.00	1.00	0.028	0.037	0.014	0.011	0.037	0.005
			A0149197	ASSAY	TB19114124	270.00	271.00	1.00	0.027	0.026	0.023	0.014	0.056	0.008
			A0149198	ASSAY	TB19114124	271.00	272.00	1.00	0.024	0.024	0.018	0.014	0.056	0.008
			A0149199	ASSAY	TB19114124	272.00	273.00	1.00	0.028	0.034	0.016	0.011	0.037	0.005
			A0149200	ASSAY	TB19114124	273.00	274.00	1.00	0.028	0.038	0.016	0.011	0.034	0.005
			A0149201	ASSAY	TB19114124	274.00	275.00	1.00	0.016	0.015	0.010	0.019	0.044	0.006
			A0149202	ASSAY	TB19114124	275.00	276.00	1.00	0.024	0.025	0.018	0.016	0.055	0.008
			A0149203	ASSAY	TB19114124	276.00	277.00	1.00	0.025	0.029	0.020	0.013	0.054	0.008
			A0149204	ASSAY	TB19114124	277.00	278.00	1.00	0.026	0.029	0.022	0.013	0.055	0.008
			A0149205	ASSAY	TB19114124	278.00	279.00	1.00	0.026	0.029	0.020	0.013	0.055	0.008
			A0149206	ASSAY	TB19114124	279.00	280.00	1.00	0.024	0.025	0.021	0.014	0.056	0.008
			A0149207	ASSAY	TB19114124	280.00	281.00	1.00	0.026	0.029	0.021	0.013	0.051	0.007
			A0149208	ASSAY	TB19114124	281.00	282.00	1.00	0.023	0.022	0.023	0.015	0.055	0.008
			A0149209	ASSAY	TB19114124	282.00	283.00	1.00	0.025	0.025	0.016	0.013	0.052	0.008
			A0149210	ASSAY	TB19114124	283.00	284.21	1.21	0.023	0.028	0.017	0.011	0.044	0.006
284.21	287.86	**GAB-Vt** 284.21 - 287.86m / Varitexture Gabbro White and green, fine- to coarse-grained, massive, varitexture gabbro. 30-40% white plag, 60-70% altered to fresh pyroxene. Weak-moderate chl-act alt. Sharp upper ctct with NOR.	A0149211	ASSAY	TB19114124	284.21	285.00	0.79	0.015	0.021	0.017	0.010	0.033	0.005
			A0149215	ASSAY	TB19114122	285.00	286.00	1.00	0.018	0.024	0.013	0.008	0.024	0.004
			A0149216	ASSAY	TB19114122	286.00	287.00	1.00	0.002	0.003	0.007	0.009	0.029	0.004
			A0149217	ASSAY	TB19114122	287.00	287.86	0.86	0.001	0.003	0.001	0.005	0.019	0.003
287.86	289.78	**TON** quartz diorite/tonalite (dyke? xenolith?) shallow trend tca so weaves in and out of gabbro a bit, sharp contacts (upper contact 50 dtca, lower contact 10 dtca) quartz vein along lower contact, foliated at top of interval, bt-ser alteration (particularly in adjacent gabbro), ~15-20% quartz, 20% biotite 65% plag	A0149218	ASSAY	TB19114122	287.86	289.00	1.14	0.003	0.003	0.001	0.004	0.013	0.002
			A0149219	ASSAY	TB19114122	289.00	289.78	0.78	0.011	0.011	0.002	0.004	0.026	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
289.78	304.16	**GAB-Vt** VT Gabbro mg-cg, mostly mg, massive, moderate pervasive chlorite-act alteration . sharp upper contact with tonalite: veined and posibly faulted contact with bt-ser alteration halo in gabbro and local fine blebby py-ccp min. sharp lower contact. variable plag content from 15-60% 290-291m quartz shear veining with biotite and sericite alteration. 293.4-294.3m tonalite dyke-biotiet-sericite alteration halos at contacts. cross cut by a couple more very narrow coarse grained, weakly k-altered felsic dykes, shallow tca.	A0149220	ASSAY	TB19114122	289.78	291.00	1.22	0.034	0.034	0.008	0.007	0.051	0.007
			A0149221	ASSAY	TB19114122	291.00	292.00	1.00	0.024	0.028	0.014	0.010	0.051	0.007
			A0149222	ASSAY	TB19114122	292.00	293.00	1.00	0.023	0.022	0.014	0.012	0.047	0.007
			A0149223	ASSAY	TB19114122	293.00	294.00	1.00	0.011	0.009	0.003	0.006	0.023	0.004
			A0149224	ASSAY	TB19114122	294.00	295.00	1.00	0.022	0.019	0.005	0.010	0.037	0.005
			A0149225	ASSAY	TB19114122	295.00	296.00	1.00	0.017	0.017	0.010	0.012	0.037	0.007
			A0149226	ASSAY	TB19114122	296.00	297.00	1.00	0.025	0.029	0.012	0.009	0.030	0.006
			A0149227	ASSAY	TB19114122	297.00	298.00	1.00	0.031	0.036	0.019	0.009	0.034	0.006
			A0149228	ASSAY	TB19114122	298.00	299.00	1.00	0.019	0.022	0.010	0.008	0.034	0.005
			A0149229	ASSAY	TB19114122	299.00	300.00	1.00	0.026	0.032	0.012	0.008	0.035	0.006
			A0149230	ASSAY	TB19114122	300.00	301.00	1.00	0.020	0.021	0.017	0.010	0.041	0.006
			A0149231	ASSAY	TB19114122	301.00	302.00	1.00	0.026	0.032	0.020	0.012	0.047	0.007
			A0149232	ASSAY	TB19114122	302.00	303.00	1.00	0.022	0.027	0.007	0.008	0.037	0.006
			A0149234	ASSAY	TB19114122	303.00	304.16	1.16	0.024	0.030	0.004	0.005	0.028	0.004
304.16	307.80	**TON** quartz diorite/tonalite dyke ranges from fine-medium-grained quartz diorite to pegmatitic tonalite/granodiorite with local k-alteration of feldspar and fracture filling sericite. sharp upper contact, sharp faulted lower contact. 10-50% qtz , 5-25% biotite, 45-65% feldspar. local fracture filling trace ccp and py	A0149235	ASSAY	TB19114122	304.16	305.00	0.84	0.002	0.003	0.001	0.003	0.002	0.001
			A0149236	ASSAY	TB19114122	305.00	306.00	1.00	0.004	0.003	0.001	0.004	0.000	0.000
			A0149237	ASSAY	TB19114122	306.00	307.00	1.00	0.001	0.003	0.001	0.001	0.001	0.000
			A0149238	ASSAY	TB19114122	307.00	307.80	0.80	0.003	0.003	0.001	0.003	0.003	0.001

From	To	Lithology
307.80	355.00	**NOR** Norite mostly massive, green, moderate pervasive chl-act altered, with local intervals of fresh, brown norite. Local intervals of gabbro. Last few boxes transitional with more gabbro (higher plag content) crosscut by occasional pegmatitic qtz-fsp-bt dykes (5-20cm wide; 5-20 dtca) and fg-mg tonalitic dykes at 30dtca. typically 10-15% plag, but locally up to 30-40% . local trace ff py. 348-355m trace diss fg py.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149239	ASSAY	TB19114122	307.80	309.00	1.20	0.042	0.048	0.022	0.013	0.051	0.007
A0149240	ASSAY	TB19114122	309.00	310.00	1.00	0.036	0.040	0.025	0.012	0.054	0.008
A0149241	ASSAY	TB19114122	310.00	311.00	1.00	0.030	0.036	0.015	0.008	0.036	0.005
A0149242	ASSAY	TB19114122	311.00	312.00	1.00	0.029	0.034	0.020	0.011	0.042	0.006
A0149243	ASSAY	TB19114122	312.00	313.00	1.00	0.026	0.031	0.020	0.012	0.057	0.008
A0149244	ASSAY	TB19114122	313.00	314.00	1.00	0.026	0.030	0.018	0.011	0.059	0.008
A0149245	ASSAY	TB19114122	314.00	315.00	1.00	0.029	0.033	0.020	0.013	0.062	0.008
A0149246	ASSAY	TB19114122	315.00	316.00	1.00	0.029	0.033	0.020	0.013	0.063	0.008
A0149247	ASSAY	TB19114122	316.00	317.00	1.00	0.028	0.029	0.019	0.012	0.061	0.008
A0149248	ASSAY	TB19114122	317.00	318.00	1.00	0.026	0.031	0.018	0.010	0.063	0.008
A0149249	ASSAY	TB19114122	318.00	319.00	1.00	0.024	0.027	0.014	0.007	0.043	0.006
A0149250	ASSAY	TB19114122	319.00	320.00	1.00	0.034	0.039	0.013	0.008	0.034	0.005
A0149251	ASSAY	TB19114122	320.00	321.00	1.00	0.033	0.038	0.018	0.009	0.032	0.004
A0149252	ASSAY	TB19114122	321.00	322.00	1.00	0.035	0.042	0.021	0.009	0.035	0.005
A0149254	ASSAY	TB19114122	322.00	323.00	1.00	0.040	0.043	0.025	0.010	0.035	0.005
A0149255	ASSAY	TB19114122	323.00	324.00	1.00	0.035	0.040	0.026	0.011	0.038	0.005
A0149256	ASSAY	TB19114122	324.00	325.00	1.00	0.039	0.042	0.024	0.009	0.033	0.005
A0149257	ASSAY	TB19114122	325.00	326.00	1.00	0.040	0.040	0.024	0.009	0.033	0.005
A0149258	ASSAY	TB19114122	326.00	327.00	1.00	0.034	0.035	0.026	0.009	0.033	0.005
A0149259	ASSAY	TB19114122	327.00	328.00	1.00	0.030	0.032	0.025	0.010	0.035	0.005
A0149260	ASSAY	TB19114122	328.00	329.00	1.00	0.029	0.031	0.018	0.010	0.032	0.005
A0149261	ASSAY	TB19114122	329.00	330.00	1.00	0.025	0.025	0.013	0.017	0.025	0.004
A0149262	ASSAY	TB19114122	330.00	331.00	1.00	0.038	0.040	0.012	0.008	0.031	0.005
A0149263	ASSAY	TB19114122	331.00	332.00	1.00	0.039	0.040	0.012	0.009	0.031	0.005
A0149264	ASSAY	TB19114122	332.00	333.00	1.00	0.039	0.038	0.015	0.010	0.032	0.005
A0149265	ASSAY	TB19114122	333.00	334.00	1.00	0.042	0.041	0.018	0.010	0.031	0.005
A0149266	ASSAY	TB19114122	334.00	335.00	1.00	0.042	0.040	0.016	0.009	0.032	0.005
A0149267	ASSAY	TB19114122	335.00	336.00	1.00	0.057	0.053	0.020	0.010	0.031	0.005
A0149268	ASSAY	TB19114122	336.00	337.00	1.00	0.056	0.051	0.015	0.009	0.029	0.005
A0149269	ASSAY	TB19114122	337.00	338.00	1.00	0.053	0.051	0.009	0.008	0.030	0.005
A0149270	ASSAY	TB19114122	338.00	339.00	1.00	0.044	0.042	0.002	0.003	0.026	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149271	ASSAY	TB19114122	339.00	340.00	1.00	0.046	0.046	0.011	0.009	0.030	0.005
			A0149272	ASSAY	TB19114122	340.00	341.00	1.00	0.056	0.047	0.014	0.009	0.030	0.005
			A0149274	ASSAY	TB19114122	341.00	342.00	1.00	0.055	0.048	0.018	0.011	0.031	0.005
			A0149275	ASSAY	TB19114122	342.00	343.00	1.00	0.037	0.034	0.007	0.008	0.019	0.003
			A0149276	ASSAY	TB19114122	343.00	344.00	1.00	0.053	0.045	0.012	0.010	0.029	0.005
			A0149277	ASSAY	TB19114122	344.00	345.00	1.00	0.049	0.043	0.013	0.009	0.030	0.005
			A0149278	ASSAY	TB19114122	345.00	346.00	1.00	0.048	0.044	0.014	0.011	0.029	0.005
			A0149279	ASSAY	TB19114122	346.00	347.00	1.00	0.049	0.044	0.015	0.011	0.030	0.005
			A0149280	ASSAY	TB19114122	347.00	348.00	1.00	0.050	0.045	0.016	0.011	0.029	0.004
			A0149281	ASSAY	TB19114122	348.00	349.00	1.00	0.055	0.043	0.019	0.011	0.029	0.005
			A0149282	ASSAY	TB19114122	349.00	350.00	1.00	0.047	0.035	0.012	0.010	0.029	0.005
			A0149283	ASSAY	TB19114122	350.00	351.00	1.00	0.046	0.033	0.013	0.011	0.028	0.005
			A0149284	ASSAY	TB19114122	351.00	352.00	1.00	0.046	0.035	0.014	0.011	0.029	0.005
			A0149285	ASSAY	TB19114122	352.00	353.00	1.00	0.045	0.033	0.013	0.011	0.030	0.005
			A0149286	ASSAY	TB19114122	353.00	354.00	1.00	0.043	0.032	0.016	0.013	0.030	0.005
			A0149287	ASSAY	TB19114122	354.00	355.00	1.00	0.038	0.028	0.014	0.012	0.028	0.005

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	307.24	-49.49	UNCSPRNT	O	
5.00	307.34	-49.60	UNCSPRNT	O	
10.00	307.41	-49.64	UNCSPRNT	O	
15.00	307.55	-49.65	UNCSPRNT	O	
20.00	307.58	-49.66	UNCSPRNT	O	
25.00	307.66	-49.70	UNCSPRNT	O	
30.00	307.58	-49.70	UNCSPRNT	O	
35.00	307.60	-49.72	UNCSPRNT	O	
40.00	307.67	-49.72	UNCSPRNT	O	
45.00	307.67	-49.72	UNCSPRNT	O	
50.00	307.64	-49.74	UNCSPRNT	O	
55.00	307.72	-49.81	UNCSPRNT	O	
60.00	307.73	-49.80	UNCSPRNT	O	
65.00	307.66	-49.80	UNCSPRNT	O	
70.00	307.62	-49.78	UNCSPRNT	O	
75.00	307.57	-49.88	UNCSPRNT	O	
80.00	307.89	-49.84	UNCSPRNT	O	
85.00	307.95	-49.81	UNCSPRNT	O	
90.00	307.96	-49.80	UNCSPRNT	O	
95.00	308.04	-49.79	UNCSPRNT	O	
100.00	308.13	-49.80	UNCSPRNT	O	
105.00	308.08	-49.81	UNCSPRNT	O	
110.00	308.13	-49.81	UNCSPRNT	O	
115.00	308.17	-49.83	UNCSPRNT	O	
120.00	308.29	-49.79	UNCSPRNT	O	
125.00	308.33	-49.80	UNCSPRNT	O	
130.00	308.35	-49.81	UNCSPRNT	O	
135.00	308.38	-49.81	UNCSPRNT	O	
140.00	308.34	-49.85	UNCSPRNT	O	
145.00	308.47	-49.79	UNCSPRNT	O	
150.00	308.44	-49.80	UNCSPRNT	O	
155.00	308.52	-49.81	UNCSPRNT	O	
160.00	308.53	-49.80	UNCSPRNT	O	
165.00	308.59	-49.78	UNCSPRNT	O	
170.00	308.51	-49.80	UNCSPRNT	O	
175.00	308.59	-49.83	UNCSPRNT	O	
180.00	308.62	-49.85	UNCSPRNT	O	

185.00	308.65	-49.88	UNCSPRNT	O
190.00	308.65	-49.90	UNCSPRNT	O
195.00	308.60	-49.84	UNCSPRNT	O
200.00	308.66	-49.81	UNCSPRNT	O
205.00	308.67	-49.77	UNCSPRNT	O
210.00	308.68	-49.80	UNCSPRNT	O
215.00	308.73	-49.80	UNCSPRNT	O
220.00	308.78	-49.81	UNCSPRNT	O
225.00	308.85	-49.82	UNCSPRNT	O
230.00	308.94	-49.84	UNCSPRNT	O
235.00	308.97	-49.87	UNCSPRNT	O
240.00	309.03	-49.85	UNCSPRNT	O
245.00	309.17	-49.83	UNCSPRNT	O
250.00	309.23	-49.84	UNCSPRNT	O
255.00	309.25	-49.85	UNCSPRNT	O
260.00	309.26	-49.84	UNCSPRNT	O
265.00	309.29	-49.83	UNCSPRNT	O
270.00	309.28	-49.81	UNCSPRNT	O
275.00	309.34	-49.79	UNCSPRNT	O
280.00	309.46	-49.76	UNCSPRNT	O
285.00	309.47	-49.74	UNCSPRNT	O
290.00	309.35	-49.88	UNCSPRNT	O
295.00	309.37	-49.81	UNCSPRNT	O
300.00	309.50	-49.77	UNCSPRNT	O

Detailed Log Report
Hole Number 19-601

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,452.97	**Length:**	379.00
Location:		**East:**	31,478.13	**Hole Size:**	NQ
Start Date:	Apr 26, 2019	**Elev:**	503.82	**Hole Type:**	DDH
Completed Date:	May 05, 2019	**Collar Dip:**	-50.58	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	304.53	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,069.90	**Multishot Survey:**	N
Start Log:	Apr 30, 2019	**East:**	308,829.93	**EOH:**	379.00
End Log:	May 05, 2019	**Elev:**	503.82	**Artesian Cond:**	No
Logged By 1:	Sarah A Ferguson	**Claim:**	253	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Comments: ~1m of lost core between 251-252m "tube miss latch, ground up core"

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	3.00	**OB**												

From	To	Lithology
3.00	32.52	**NOR-Vt** VT NOR fg-mg, massive, mostly variations in medium grain size, coarser and more plag-rich patches b/w 22 and 27m. local bronzite, weak to moderate chl-act alteration, stronger tremolite alteration b/w 9 and 16m. mostly ~10% plag, but locally up to 50% plag in coarser intervals b/w 22 and 27m. Trace local blebby po-ccp and lesser py from 4-17m. 0.5% blebby po-ccp from 21-30m in both mg massive nor and in coarser grained more plag-rich intervals. Trace local blebs po and py from 30-32.52m

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149288	ASSAY	TB19114122	3.00	4.00	1.00	0.268	0.049	0.079	0.045	0.060	0.006
A0149289	ASSAY	TB19114122	4.00	5.00	1.00	0.050	0.037	0.023	0.024	0.042	0.006
A0149293	ASSAY	TB19114123	5.00	6.00	1.00	0.056	0.037	0.017	0.023	0.044	0.006
A0149294	ASSAY	TB19114123	6.00	7.00	1.00	0.045	0.039	0.016	0.018	0.037	0.005
A0149295	ASSAY	TB19114123	7.00	8.00	1.00	0.064	0.041	0.022	0.033	0.043	0.006
A0149296	ASSAY	TB19114123	8.00	9.00	1.00	0.015	0.010	0.006	0.017	0.026	0.005
A0149297	ASSAY	TB19114123	9.00	10.00	1.00	0.019	0.015	0.008	0.011	0.026	0.005
A0149298	ASSAY	TB19114123	10.00	11.00	1.00	0.023	0.021	0.008	0.012	0.028	0.005
A0149299	ASSAY	TB19114123	11.00	12.00	1.00	0.010	0.011	0.008	0.015	0.029	0.005
A0149300	ASSAY	TB19114123	12.00	13.00	1.00	0.021	0.018	0.007	0.016	0.030	0.005
A0149301	ASSAY	TB19114123	13.00	14.00	1.00	0.012	0.011	0.006	0.010	0.028	0.005
A0149302	ASSAY	TB19114123	14.00	15.00	1.00	0.011	0.010	0.011	0.013	0.030	0.005
A0149303	ASSAY	TB19114123	15.00	16.00	1.00	0.020	0.021	0.013	0.017	0.035	0.005
A0149304	ASSAY	TB19114123	16.00	17.00	1.00	0.017	0.015	0.011	0.015	0.033	0.005
A0149305	ASSAY	TB19114123	17.00	18.00	1.00	0.005	0.003	0.008	0.013	0.028	0.005
A0149306	ASSAY	TB19114123	18.00	19.00	1.00	0.010	0.003	0.005	0.017	0.025	0.005
A0149307	ASSAY	TB19114123	19.00	20.00	1.00	0.009	0.003	0.004	0.020	0.026	0.005
A0149308	ASSAY	TB19114123	20.00	21.00	1.00	0.003	0.003	0.008	0.018	0.031	0.005
A0149309	ASSAY	TB19114123	21.00	22.00	1.00	0.038	0.025	0.023	0.046	0.055	0.005
A0149310	ASSAY	TB19114123	22.00	23.00	1.00	0.043	0.032	0.024	0.028	0.041	0.005
A0149312	ASSAY	TB19114123	23.00	24.00	1.00	0.019	0.017	0.013	0.022	0.039	0.004
A0149313	ASSAY	TB19114123	24.00	25.00	1.00	0.020	0.014	0.013	0.014	0.038	0.005
A0149314	ASSAY	TB19114123	25.00	26.00	1.00	0.115	0.104	0.049	0.043	0.070	0.006
A0149315	ASSAY	TB19114123	26.00	27.00	1.00	0.039	0.029	0.029	0.022	0.040	0.005
A0149316	ASSAY	TB19114123	27.00	28.00	1.00	0.081	0.045	0.015	0.017	0.043	0.007
A0149317	ASSAY	TB19114123	28.00	29.00	1.00	0.113	0.041	0.030	0.026	0.043	0.006
A0149318	ASSAY	TB19114123	29.00	30.00	1.00	0.211	0.079	0.059	0.040	0.056	0.007
A0149319	ASSAY	TB19114123	30.00	31.00	1.00	0.005	0.003	0.003	0.013	0.021	0.005
A0149320	ASSAY	TB19114123	31.00	31.75	0.75	0.011	0.003	0.004	0.015	0.023	0.005
A0149321	ASSAY	TB19114123	31.75	32.52	0.77	0.046	0.019	0.012	0.015	0.032	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
32.52	38.43	**NOR** NOR mg, massive, mostly brown, with bronzite and brown pitted pyroxene, ~10-15% plagioclase, mostly weak chlorite-actinolite alteration, local epidotization.	A0149322	ASSAY	TB19114123	32.52	34.00	1.48	0.092	0.040	0.021	0.011	0.047	0.006
			A0149323	ASSAY	TB19114123	34.00	35.00	1.00	0.114	0.046	0.022	0.011	0.045	0.006
			A0149324	ASSAY	TB19114123	35.00	36.00	1.00	0.124	0.052	0.021	0.010	0.045	0.006
			A0149325	ASSAY	TB19114123	36.00	37.00	1.00	0.128	0.051	0.020	0.010	0.044	0.006
			A0149326	ASSAY	TB19114123	37.00	37.75	0.75	0.131	0.063	0.022	0.011	0.044	0.006
			A0149327	ASSAY	TB19114123	37.75	38.43	0.68	0.122	0.050	0.018	0.009	0.041	0.006
38.43	48.75	**GAB-Vt** VT GAB (or VT NOR - calling gab based on higher plag content) mg-cg. mg intervals include both typical brown massive norite (5-10% plag) and more plagioclase-rich green/chloritic unit (~30% plag) , cg to pegmatitic intervals up to 60% plag locally, but usually wtih brown-purple hue to crystals (typical of norite), unless near fractures with str chl-sodic alteration (green and white), moderate white tremolite alteration of pyroxene in coarse grained intervals. Mineralized: 42-45m 0.2% blebby po-ccp; 45-47.5m 2% blebby po-ccp gradational upper and lower contacts.	A0149328	ASSAY	TB19114123	38.43	39.25	0.82	0.136	0.052	0.022	0.011	0.042	0.006
			A0149329	ASSAY	TB19114123	39.25	40.00	0.75	0.118	0.050	0.015	0.012	0.045	0.006
			A0149330	ASSAY	TB19114123	40.00	41.00	1.00	0.155	0.062	0.020	0.012	0.048	0.007
			A0149332	ASSAY	TB19114123	41.00	42.00	1.00	0.146	0.056	0.026	0.014	0.051	0.007
			A0149333	ASSAY	TB19114123	42.00	43.00	1.00	0.009	0.006	0.014	0.008	0.031	0.005
			A0149334	ASSAY	TB19114123	43.00	44.00	1.00	0.001	0.003	0.010	0.009	0.029	0.005
			A0149335	ASSAY	TB19114123	44.00	45.00	1.00	0.005	0.006	0.022	0.015	0.032	0.005
			A0149336	ASSAY	TB19114123	45.00	46.00	1.00	0.685	0.129	0.164	0.109	0.093	0.006
			A0149337	ASSAY	TB19114123	46.00	47.00	1.00	0.298	0.146	0.109	0.071	0.076	0.006
			A0149338	ASSAY	TB19114123	47.00	48.00	1.00	0.187	0.072	0.042	0.025	0.060	0.008
			A0149339	ASSAY	TB19114123	48.00	48.75	0.75	0.065	0.025	0.020	0.014	0.036	0.006

From	To	Lithology
48.75	101.00	**NOR-Vt**

VT NOR
fg-mg, mostly mg, massive, brown to green, weak to moderate chl-act alteration, local quartz +/- epidote veinlets @55-60dtca. typically 5-20% plagioclase. local bronzite, but mostly brown pitted pyroxene. Local short intervals of mg-cg more plag-rich (35-45% plag)/gabbroic material. Only weakly varitextured between 64 and 75m
52.5-55.5 m trace fine to coarse blebby po-cccp
55.5-62m 0.5-1% fine to coarse blebby po-ccp
79-83m 0.5-1% fine to coarse blebby to intercumulus po-ccp
86-94.5m 1% disseminated and medium to coarse blebby po-ccp
94.5-97m 2% medium to coarse blebby to intercumulus po-ccp
97-101m 0.5% disseminated and fine blebby po-ccp
trace local blebby po-ccp elsewhere through unit.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149340	ASSAY	TB19114123	48.75	50.00	1.25	0.028	0.011	0.009	0.016	0.027	0.006
A0149341	ASSAY	TB19114123	50.00	51.00	1.00	0.009	0.003	0.003	0.015	0.022	0.006
A0149342	ASSAY	TB19114123	51.00	52.00	1.00	0.020	0.007	0.009	0.013	0.023	0.005
A0149343	ASSAY	TB19114123	52.00	53.00	1.00	0.029	0.012	0.011	0.014	0.025	0.006
A0149344	ASSAY	TB19114123	53.00	54.00	1.00	0.016	0.007	0.009	0.014	0.026	0.006
A0149345	ASSAY	TB19114123	54.00	55.00	1.00	0.027	0.012	0.011	0.011	0.023	0.005
A0149346	ASSAY	TB19114123	55.00	56.00	1.00	0.135	0.056	0.053	0.057	0.054	0.006
A0149347	ASSAY	TB19114123	56.00	57.00	1.00	0.111	0.052	0.026	0.021	0.043	0.006
A0149348	ASSAY	TB19114123	57.00	58.00	1.00	0.276	0.073	0.055	0.042	0.060	0.006
A0149349	ASSAY	TB19114123	58.00	59.00	1.00	0.701	0.202	0.104	0.072	0.088	0.007
A0149350	ASSAY	TB19114123	59.00	60.00	1.00	0.324	0.106	0.047	0.032	0.064	0.007
A0149352	ASSAY	TB19114123	60.00	61.00	1.00	0.514	0.088	0.101	0.060	0.078	0.006
A0149353	ASSAY	TB19114123	61.00	62.00	1.00	0.461	0.106	0.081	0.049	0.073	0.006
A0149354	ASSAY	TB19114123	62.00	63.00	1.00	0.131	0.053	0.020	0.014	0.044	0.007
A0149355	ASSAY	TB19114123	63.00	64.00	1.00	0.147	0.057	0.018	0.016	0.048	0.007
A0149356	ASSAY	TB19114123	64.00	65.00	1.00	0.136	0.049	0.019	0.010	0.045	0.006
A0149357	ASSAY	TB19114123	65.00	66.00	1.00	0.158	0.061	0.041	0.018	0.049	0.007
A0149358	ASSAY	TB19114123	66.00	67.00	1.00	0.142	0.058	0.028	0.014	0.049	0.007
A0149359	ASSAY	TB19114123	67.00	68.00	1.00	0.141	0.055	0.019	0.012	0.041	0.006
A0149360	ASSAY	TB19114123	68.00	69.00	1.00	0.134	0.054	0.020	0.013	0.043	0.006
A0149361	ASSAY	TB19114123	69.00	70.00	1.00	0.141	0.064	0.019	0.013	0.045	0.007
A0149362	ASSAY	TB19114123	70.00	71.00	1.00	0.180	0.069	0.032	0.014	0.047	0.007
A0149363	ASSAY	TB19114123	71.00	72.00	1.00	0.063	0.022	0.010	0.013	0.029	0.006
A0149364	ASSAY	TB19114123	72.00	73.00	1.00	0.184	0.068	0.037	0.022	0.050	0.006
A0149365	ASSAY	TB19114123	73.00	74.00	1.00	0.169	0.055	0.029	0.019	0.051	0.007
A0149366	ASSAY	TB19114123	74.00	75.00	1.00	0.161	0.069	0.010	0.010	0.045	0.007
A0149367	ASSAY	TB19114123	75.00	76.00	1.00	0.059	0.025	0.009	0.018	0.029	0.006
A0149371	ASSAY	TB19114120	76.00	77.00	1.00	0.027	0.010	0.008	0.015	0.023	0.006
A0149372	ASSAY	TB19114120	77.00	78.00	1.00	0.021	0.008	0.006	0.018	0.023	0.006
A0149373	ASSAY	TB19114120	78.00	79.00	1.00	0.024	0.012	0.007	0.017	0.024	0.006
A0149374	ASSAY	TB19114120	79.00	80.00	1.00	0.480	0.170	0.076	0.059	0.063	0.007

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149375	ASSAY	TB19114120	80.00	81.00	1.00	0.025	0.008	0.008	0.013	0.020	0.006
			A0149376	ASSAY	TB19114120	81.00	82.00	1.00	0.071	0.035	0.014	0.019	0.036	0.007
			A0149377	ASSAY	TB19114120	82.00	83.00	1.00	0.308	0.107	0.036	0.043	0.057	0.007
			A0149378	ASSAY	TB19114120	83.00	84.00	1.00	0.079	0.038	0.016	0.016	0.041	0.006
			A0149379	ASSAY	TB19114120	84.00	85.00	1.00	0.106	0.043	0.022	0.019	0.040	0.006
			A0149380	ASSAY	TB19114120	85.00	86.00	1.00	0.075	0.036	0.014	0.013	0.047	0.007
			A0149381	ASSAY	TB19114120	86.00	87.00	1.00	0.148	0.056	0.034	0.029	0.051	0.007
			A0149382	ASSAY	TB19114120	87.00	88.00	1.00	0.058	0.033	0.013	0.014	0.039	0.006
			A0149383	ASSAY	TB19114120	88.00	89.00	1.00	0.183	0.099	0.057	0.046	0.067	0.007
			A0149384	ASSAY	TB19114120	89.00	90.00	1.00	0.136	0.060	0.069	0.070	0.074	0.006
			A0149385	ASSAY	TB19114120	90.00	91.00	1.00	0.243	0.100	0.114	0.071	0.075	0.006
			A0149386	ASSAY	TB19114120	91.00	92.00	1.00	0.241	0.099	0.114	0.109	0.103	0.007
			A0149387	ASSAY	TB19114120	92.00	93.00	1.00	0.060	0.033	0.021	0.031	0.048	0.006
			A0149388	ASSAY	TB19114120	93.00	94.00	1.00	0.202	0.074	0.083	0.091	0.088	0.007
			A0149390	ASSAY	TB19114120	94.00	95.00	1.00	0.106	0.057	0.040	0.056	0.058	0.005
			A0149391	ASSAY	TB19114120	95.00	96.00	1.00	0.251	0.141	0.138	0.164	0.124	0.008
			A0149392	ASSAY	TB19114120	96.00	97.00	1.00	0.211	0.103	0.230	0.130	0.102	0.008
			A0149393	ASSAY	TB19114120	97.00	98.00	1.00	0.107	0.050	0.053	0.040	0.046	0.005
			A0149394	ASSAY	TB19114120	98.00	99.00	1.00	0.124	0.058	0.046	0.037	0.050	0.006
			A0149395	ASSAY	TB19114120	99.00	100.00	1.00	0.066	0.058	0.031	0.031	0.054	0.008
			A0149396	ASSAY	TB19114120	100.00	101.00	1.00	0.113	0.091	0.043	0.037	0.071	0.009
101.00	107.30	**GAB-Vt**	A0149397	ASSAY	TB19114120	101.00	102.00	1.00	0.131	0.071	0.049	0.054	0.065	0.007
VT GAB mg to locally cg, green, moderate chl-act altered, transitional but fairly abrupt contacts, 25-45% plagioclase, 0.2-0.3% fine disseminated and fine blebby po-ccp			A0149398	ASSAY	TB19114120	102.00	103.00	1.00	0.029	0.015	0.020	0.031	0.034	0.005
			A0149399	ASSAY	TB19114120	103.00	104.00	1.00	0.006	0.006	0.014	0.018	0.028	0.005
			A0149400	ASSAY	TB19114120	104.00	105.00	1.00	0.041	0.020	0.019	0.028	0.036	0.005
			A0149401	ASSAY	TB19114120	105.00	106.00	1.00	0.013	0.003	0.008	0.015	0.031	0.005
			A0149402	ASSAY	TB19114120	106.00	107.30	1.30	0.177	0.053	0.063	0.069	0.075	0.006

From	To	Lithology
107.30	134.00	**NOR-Vt** VT NOR fg-cg, but mostly mg. weakly altered overall, to locally more moderate chl-act alteration . 10-15% plag. 116-124.78m and 126.38-129.64m: Contain Intermittent 'gabbroic' intervals/increase in plag content to up to 35-45%, but still usually dominated by brown OPX 107.3-110.4m 0.2-0.3% blebby & local ff po-ccp; 113.65-116m 2% coarse blebby & local intercumulus po-ccp; 116-118m 1% fien to coarse blebby po-ccp; 118-121.5m 0.2-0.3% medium blebs & intercumulus po-ccp; trace sulphides in b/w intervals. local diss py over last 10 m.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149403	ASSAY	TB19114120	107.30	108.00	0.70	0.237	0.061	0.060	0.082	0.069	0.006
A0149404	ASSAY	TB19114120	108.00	109.00	1.00	0.077	0.036	0.030	0.034	0.044	0.006
A0149405	ASSAY	TB19114120	109.00	110.00	1.00	0.134	0.061	0.054	0.060	0.061	0.005
A0149406	ASSAY	TB19114120	110.00	111.00	1.00	0.031	0.018	0.025	0.038	0.046	0.005
A0149407	ASSAY	TB19114120	111.00	112.00	1.00	0.131	0.074	0.036	0.038	0.052	0.005
A0149408	ASSAY	TB19114120	112.00	113.00	1.00	0.035	0.011	0.018	0.024	0.035	0.005
A0149410	ASSAY	TB19114120	113.00	114.00	1.00	0.157	0.055	0.058	0.073	0.066	0.006
A0149411	ASSAY	TB19114120	114.00	115.00	1.00	0.084	0.031	0.047	0.079	0.078	0.006
A0149412	ASSAY	TB19114120	115.00	116.00	1.00	0.091	0.041	0.079	0.119	0.081	0.007
A0149413	ASSAY	TB19114120	116.00	117.00	1.00	0.052	0.031	0.040	0.055	0.049	0.005
A0149414	ASSAY	TB19114120	117.00	118.00	1.00	0.063	0.044	0.035	0.045	0.050	0.005
A0149415	ASSAY	TB19114120	118.00	119.00	1.00	0.035	0.028	0.024	0.022	0.037	0.005
A0149416	ASSAY	TB19114120	119.00	120.00	1.00	0.034	0.015	0.025	0.030	0.039	0.005
A0149417	ASSAY	TB19114120	120.00	121.00	1.00	0.016	0.009	0.020	0.031	0.041	0.006
A0149418	ASSAY	TB19114120	121.00	122.00	1.00	0.008	0.007	0.014	0.017	0.030	0.005
A0149419	ASSAY	TB19114120	122.00	123.00	1.00	0.041	0.029	0.019	0.022	0.035	0.005
A0149420	ASSAY	TB19114120	123.00	124.00	1.00	0.038	0.023	0.016	0.021	0.035	0.005
A0149421	ASSAY	TB19114120	124.00	125.00	1.00	0.054	0.044	0.022	0.025	0.036	0.005
A0149422	ASSAY	TB19114120	125.00	126.00	1.00	0.090	0.052	0.020	0.021	0.036	0.005
A0149423	ASSAY	TB19114120	126.00	127.00	1.00	0.163	0.117	0.057	0.051	0.056	0.005
A0149424	ASSAY	TB19114120	127.00	128.00	1.00	0.049	0.039	0.020	0.017	0.037	0.005
A0149425	ASSAY	TB19114120	128.00	129.00	1.00	0.071	0.057	0.018	0.019	0.042	0.006
A0149426	ASSAY	TB19114120	129.00	130.00	1.00	0.042	0.038	0.014	0.013	0.034	0.005
A0149427	ASSAY	TB19114120	130.00	131.00	1.00	0.068	0.052	0.022	0.022	0.046	0.006
A0149428	ASSAY	TB19114120	131.00	132.00	1.00	0.055	0.038	0.023	0.022	0.036	0.005
A0149430	ASSAY	TB19114120	132.00	133.00	1.00	0.081	0.045	0.023	0.023	0.042	0.006
A0149431	ASSAY	TB19114120	133.00	134.00	1.00	0.109	0.078	0.027	0.029	0.054	0.007

From	To	Lithology
134.00	166.46	**NOR** Norite mg, brown, massive,weakly- moderately chl-act altered, typically ~15% plagioclase, local intermittent gabbro intervals wtih gradational contacts (ex. 150.66-152m), cross cut by a couple 3-8cm magnetic mafic dykes b/w 161 and 163m gradational upper contact. gradational lower contact. 134-141m tr to locally up to 0.2% fg diss and blebby po-ccp; 141-145m ~0.3% blebby & intercumulus po-ccp 154-160m: 0.2% blebby and intercumulus po-ccp+/-py tr po-ccp 165-166m

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149432	ASSAY	TB19114120	134.00	135.00	1.00	0.146	0.083	0.046	0.031	0.048	0.007
A0149433	ASSAY	TB19114120	135.00	136.00	1.00	0.017	0.023	0.023	0.014	0.037	0.006
A0149434	ASSAY	TB19114120	136.00	137.00	1.00	0.098	0.108	0.113	0.056	0.064	0.006
A0149435	ASSAY	TB19114120	137.00	138.00	1.00	0.014	0.023	0.025	0.016	0.038	0.005
A0149436	ASSAY	TB19114120	138.00	139.00	1.00	0.097	0.103	0.087	0.040	0.063	0.006
A0149437	ASSAY	TB19114120	139.00	140.00	1.00	0.045	0.048	0.037	0.026	0.051	0.006
A0149438	ASSAY	TB19114120	140.00	141.00	1.00	0.015	0.021	0.024	0.017	0.042	0.006
A0149439	ASSAY	TB19114120	141.00	142.00	1.00	0.068	0.070	0.071	0.039	0.060	0.006
A0149440	ASSAY	TB19114120	142.00	143.00	1.00	0.052	0.049	0.063	0.032	0.052	0.006
A0149441	ASSAY	TB19114120	143.00	144.00	1.00	0.049	0.053	0.050	0.029	0.052	0.006
A0149442	ASSAY	TB19114120	144.00	145.00	1.00	0.077	0.076	0.069	0.038	0.055	0.006
A0149443	ASSAY	TB19114120	145.00	146.00	1.00	0.016	0.022	0.021	0.016	0.037	0.006
A0149444	ASSAY	TB19114120	146.00	147.00	1.00	0.014	0.021	0.019	0.012	0.035	0.005
A0149445	ASSAY	TB19114120	147.00	148.00	1.00	0.014	0.023	0.017	0.012	0.033	0.005
A0149449	ASSAY	TB19114125	148.00	149.00	1.00	0.024	0.026	0.024	0.023	0.039	0.006
A0149450	ASSAY	TB19114125	149.00	150.00	1.00	0.040	0.038	0.029	0.018	0.040	0.006
A0149451	ASSAY	TB19114125	150.00	151.00	1.00	0.015	0.025	0.022	0.014	0.035	0.006
A0149452	ASSAY	TB19114125	151.00	152.00	1.00	0.003	0.008	0.023	0.018	0.030	0.005
A0149453	ASSAY	TB19114125	152.00	153.00	1.00	0.003	0.008	0.030	0.018	0.033	0.005
A0149454	ASSAY	TB19114125	153.00	154.00	1.00	0.002	0.003	0.016	0.014	0.031	0.005
A0149455	ASSAY	TB19114125	154.00	155.00	1.00	0.002	0.003	0.015	0.019	0.035	0.005
A0149456	ASSAY	TB19114125	155.00	156.00	1.00	0.004	0.008	0.027	0.023	0.039	0.005
A0149457	ASSAY	TB19114125	156.00	157.00	1.00	0.005	0.010	0.025	0.022	0.039	0.005
A0149458	ASSAY	TB19114125	157.00	158.00	1.00	0.007	0.013	0.043	0.032	0.046	0.006
A0149459	ASSAY	TB19114125	158.00	159.00	1.00	0.004	0.012	0.030	0.028	0.040	0.005
A0149460	ASSAY	TB19114125	159.00	160.00	1.00	0.010	0.017	0.037	0.028	0.045	0.006
A0149461	ASSAY	TB19114125	160.00	161.00	1.00	0.013	0.019	0.030	0.018	0.042	0.006
A0149462	ASSAY	TB19114125	161.00	162.00	1.00	0.006	0.012	0.024	0.018	0.040	0.006
A0149463	ASSAY	TB19114125	162.00	163.00	1.00	0.007	0.012	0.023	0.018	0.041	0.006
A0149464	ASSAY	TB19114125	163.00	164.00	1.00	0.008	0.013	0.025	0.017	0.043	0.006
A0149465	ASSAY	TB19114125	164.00	165.00	1.00	0.007	0.014	0.030	0.022	0.046	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149466	ASSAY	TB19114125	165.00	165.75	0.75	0.009	0.015	0.026	0.023	0.049	0.006
			A0149468	ASSAY	TB19114125	165.75	166.46	0.71	0.008	0.014	0.027	0.018	0.045	0.006

From	To	Lithology
166.46	250.54	**GAB-Vt**

GABVT
fg-cg, predominantly mg. green in colour, mostly moderately altered to chl-act, locally strong. typically 20-45% plagioclase content.
contains local intervals of norite at top (~170-175.71m) and lower (238.92-240.88m).
minor faulting @ 169 m (parallel fault planes with slickenlines and quartz veining)+fg diss py.
gradational upper contact. minor local quartz-carb-chlorite veining 10-40dtca.
214.44-215.26 brecciated interval with qtz-diorite matrix surrounding the gabbro wtih local strong foliation across 1 cm at end of interval @ 30dtca,
216-216.5 moderate foliation @ 45dtca ;
222.3-223.43m local strong foliation with folding of felsic dykelet.
sharp lower contact
trace py 169m, trace po-ccp 178-179m; 184-186: 0.3% fine intercumulus po-ccp and patch of fine blebby py; 186-193m trace po-ccp blebs and diss py; 193-194.5m 0.3% bleb and diss py; 194.5-200 m tr local bleby adn diss py+in qtz vein; 213-215.5 tr ff py; 230-239.5m tr-0.2% fg-mg diss py; 243.6-248.85m 0.2% fg diss py; 248.85-249.5m 0.3% blebby po-ccp

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149469	ASSAY	TB19114125	166.46	167.25	0.79	0.008	0.013	0.024	0.019	0.047	0.006
A0149470	ASSAY	TB19114125	167.25	168.00	0.75	0.008	0.016	0.022	0.017	0.048	0.006
A0149471	ASSAY	TB19114125	168.00	169.00	1.00	0.011	0.020	0.014	0.014	0.050	0.006
A0149472	ASSAY	TB19114125	169.00	170.00	1.00	0.007	0.009	0.015	0.012	0.043	0.006
A0149473	ASSAY	TB19114125	170.00	171.00	1.00	0.008	0.014	0.024	0.022	0.048	0.006
A0149474	ASSAY	TB19114125	171.00	172.00	1.00	0.010	0.017	0.021	0.014	0.043	0.006
A0149475	ASSAY	TB19114125	172.00	173.00	1.00	0.006	0.012	0.020	0.012	0.034	0.005
A0149476	ASSAY	TB19114125	173.00	174.00	1.00	0.009	0.017	0.022	0.012	0.032	0.005
A0149477	ASSAY	TB19114125	174.00	175.00	1.00	0.012	0.023	0.022	0.012	0.033	0.005
A0149478	ASSAY	TB19114125	175.00	176.00	1.00	0.002	0.003	0.022	0.013	0.034	0.005
A0149479	ASSAY	TB19114125	176.00	177.00	1.00	0.004	0.003	0.003	0.010	0.029	0.005
A0149480	ASSAY	TB19114125	177.00	178.00	1.00	0.002	0.003	0.006	0.015	0.034	0.005
A0149481	ASSAY	TB19114125	178.00	179.00	1.00	0.001	0.003	0.003	0.010	0.029	0.004
A0149482	ASSAY	TB19114125	179.00	180.00	1.00	0.010	0.014	0.003	0.010	0.025	0.005
A0149483	ASSAY	TB19114125	180.00	181.00	1.00	0.010	0.017	0.005	0.007	0.029	0.004
A0149484	ASSAY	TB19114125	181.00	182.00	1.00	0.020	0.031	0.020	0.013	0.034	0.005
A0149485	ASSAY	TB19114125	182.00	183.00	1.00	0.019	0.031	0.016	0.010	0.031	0.005
A0149486	ASSAY	TB19114125	183.00	184.00	1.00	0.020	0.029	0.017	0.014	0.032	0.005
A0149488	ASSAY	TB19114125	184.00	185.00	1.00	0.030	0.042	0.047	0.049	0.057	0.007
A0149489	ASSAY	TB19114125	185.00	186.00	1.00	0.010	0.011	0.031	0.035	0.040	0.005
A0149490	ASSAY	TB19114125	186.00	187.00	1.00	0.002	0.003	0.016	0.011	0.030	0.004
A0149491	ASSAY	TB19114125	187.00	188.00	1.00	0.001	0.003	0.008	0.008	0.025	0.004
A0149492	ASSAY	TB19114125	188.00	189.00	1.00	0.001	0.003	0.008	0.011	0.028	0.004
A0149493	ASSAY	TB19114125	189.00	190.00	1.00	0.002	0.003	0.009	0.013	0.034	0.004
A0149494	ASSAY	TB19114125	190.00	191.00	1.00	0.002	0.003	0.012	0.017	0.035	0.004
A0149495	ASSAY	TB19114125	191.00	192.00	1.00	0.001	0.003	0.005	0.009	0.029	0.004
A0149496	ASSAY	TB19114125	192.00	193.00	1.00	0.001	0.003	0.004	0.011	0.029	0.005
A0149497	ASSAY	TB19114125	193.00	194.00	1.00	0.001	0.003	0.007	0.013	0.034	0.005
A0149498	ASSAY	TB19114125	194.00	195.00	1.00	0.003	0.005	0.010	0.016	0.036	0.005
A0149499	ASSAY	TB19114125	195.00	196.00	1.00	0.002	0.003	0.008	0.007	0.030	0.004
A0149500	ASSAY	TB19114125	196.00	197.00	1.00	0.006	0.007	0.007	0.011	0.035	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149501	ASSAY	TB19114125	197.00	198.00	1.00	0.016	0.022	0.009	0.010	0.033	0.005
			A0149502	ASSAY	TB19114125	198.00	199.00	1.00	0.008	0.015	0.014	0.012	0.035	0.005
			A0149503	ASSAY	TB19114125	199.00	200.00	1.00	0.009	0.016	0.026	0.014	0.036	0.006
			A0149504	ASSAY	TB19114125	200.00	201.00	1.00	0.009	0.016	0.027	0.012	0.035	0.005
			A0149505	ASSAY	TB19114125	201.00	202.00	1.00	0.008	0.014	0.019	0.014	0.037	0.006
			A0149506	ASSAY	TB19114125	202.00	203.00	1.00	0.009	0.013	0.009	0.011	0.035	0.005
			A0149508	ASSAY	TB19114125	203.00	204.00	1.00	0.022	0.023	0.014	0.013	0.037	0.006
			A0149509	ASSAY	TB19114125	204.00	205.00	1.00	0.011	0.017	0.020	0.011	0.035	0.005
			A0149510	ASSAY	TB19114125	205.00	206.00	1.00	0.002	0.003	0.006	0.008	0.030	0.004
			A0149511	ASSAY	TB19114125	206.00	207.00	1.00	0.011	0.019	0.018	0.012	0.039	0.006
			A0149512	ASSAY	TB19114125	207.00	208.00	1.00	0.014	0.026	0.020	0.011	0.042	0.006
			A0149513	ASSAY	TB19114125	208.00	209.00	1.00	0.016	0.029	0.024	0.012	0.040	0.006
			A0149514	ASSAY	TB19114125	209.00	210.00	1.00	0.015	0.027	0.023	0.013	0.039	0.006
			A0149515	ASSAY	TB19114125	210.00	211.00	1.00	0.017	0.026	0.022	0.010	0.038	0.006
			A0149516	ASSAY	TB19114125	211.00	212.00	1.00	0.017	0.031	0.064	0.012	0.036	0.006
			A0149517	ASSAY	TB19114125	212.00	213.00	1.00	0.021	0.032	0.021	0.010	0.040	0.006
			A0149518	ASSAY	TB19114125	213.00	214.00	1.00	0.023	0.033	0.021	0.011	0.040	0.006
			A0149519	ASSAY	TB19114125	214.00	215.00	1.00	0.018	0.027	0.017	0.012	0.032	0.005
			A0149520	ASSAY	TB19114125	215.00	216.00	1.00	0.021	0.038	0.008	0.009	0.037	0.005
			A0149521	ASSAY	TB19114125	216.00	217.00	1.00	0.022	0.034	0.011	0.008	0.034	0.005
			A0149522	ASSAY	TB19114125	217.00	218.00	1.00	0.020	0.030	0.005	0.005	0.032	0.004
			A0149523	ASSAY	TB19114125	218.00	219.00	1.00	0.019	0.032	0.014	0.009	0.033	0.005
			A0149527	ASSAY	TB19127098	219.00	220.00	1.00	0.021	0.033	0.021	0.011	0.034	0.005
			A0149528	ASSAY	TB19127098	220.00	221.00	1.00	0.018	0.032	0.013	0.011	0.033	0.005
			A0149529	ASSAY	TB19127098	221.00	222.00	1.00	0.018	0.029	0.015	0.010	0.032	0.005
			A0149530	ASSAY	TB19127098	222.00	223.00	1.00	0.019	0.026	0.011	0.008	0.030	0.005
			A0149531	ASSAY	TB19127098	223.00	224.00	1.00	0.017	0.027	0.012	0.009	0.034	0.005
			A0149532	ASSAY	TB19127098	224.00	225.00	1.00	0.019	0.026	0.014	0.009	0.032	0.005
			A0149533	ASSAY	TB19127098	225.00	226.00	1.00	0.020	0.027	0.012	0.009	0.031	0.005
			A0149534	ASSAY	TB19127098	226.00	227.00	1.00	0.020	0.026	0.013	0.007	0.031	0.005
			A0149535	ASSAY	TB19127098	227.00	228.00	1.00	0.020	0.025	0.009	0.006	0.029	0.005
			A0149536	ASSAY	TB19127098	228.00	229.00	1.00	0.016	0.020	0.009	0.009	0.029	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149537	ASSAY	TB19127098	229.00	230.00	1.00	0.015	0.019	0.014	0.010	0.029	0.005
			A0149538	ASSAY	TB19127098	230.00	231.00	1.00	0.061	0.071	0.043	0.040	0.053	0.005
			A0149539	ASSAY	TB19127098	231.00	232.00	1.00	0.076	0.084	0.019	0.019	0.035	0.004
			A0149540	ASSAY	TB19127098	232.00	233.00	1.00	0.013	0.020	0.017	0.018	0.028	0.005
			A0149541	ASSAY	TB19127098	233.00	234.00	1.00	0.017	0.034	0.018	0.021	0.026	0.005
			A0149542	ASSAY	TB19127098	234.00	235.00	1.00	0.021	0.037	0.017	0.015	0.024	0.005
			A0149543	ASSAY	TB19127098	235.00	236.00	1.00	0.004	0.006	0.006	0.010	0.023	0.005
			A0149544	ASSAY	TB19127098	236.00	237.00	1.00	0.001	0.003	0.001	0.009	0.023	0.005
			A0149546	ASSAY	TB19127098	237.00	238.00	1.00	0.002	0.003	0.004	0.014	0.026	0.005
			A0149547	ASSAY	TB19127098	238.00	239.00	1.00	0.005	0.006	0.006	0.012	0.025	0.005
			A0149548	ASSAY	TB19127098	239.00	240.00	1.00	0.006	0.006	0.010	0.016	0.026	0.005
			A0149549	ASSAY	TB19127098	240.00	241.00	1.00	0.005	0.003	0.006	0.015	0.027	0.005
			A0149550	ASSAY	TB19127098	241.00	242.00	1.00	0.003	0.003	0.003	0.009	0.025	0.005
			A0149551	ASSAY	TB19127098	242.00	243.00	1.00	0.002	0.003	0.001	0.014	0.023	0.005
			A0149552	ASSAY	TB19127098	243.00	244.00	1.00	0.002	0.003	0.001	0.014	0.024	0.005
			A0149553	ASSAY	TB19127098	244.00	245.00	1.00	0.002	0.003	0.001	0.016	0.025	0.005
			A0149554	ASSAY	TB19127098	245.00	246.00	1.00	0.002	0.003	0.001	0.013	0.023	0.005
			A0149555	ASSAY	TB19127098	246.00	247.00	1.00	0.003	0.003	0.002	0.010	0.024	0.005
			A0149556	ASSAY	TB19127098	247.00	248.00	1.00	0.003	0.003	0.005	0.013	0.026	0.006
			A0149557	ASSAY	TB19127098	248.00	249.00	1.00	0.005	0.003	0.008	0.015	0.029	0.006
			A0149558	ASSAY	TB19127098	249.00	249.75	0.75	0.001	0.003	0.001	0.014	0.024	0.005
			A0149559	ASSAY	TB19127098	249.75	250.54	0.79	0.002	0.003	0.001	0.002	0.001	0.001

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
250.54	280.38	**TON** tonalite sharp upper contact. becomes strongly foliated soon after contact. strongly foliated throughout and gneissic with local shearing and folding. 60-70% feldspar 10-15% mafics 15-25% quartz. weak to moderately magnetic throughout (k=1-70). Local potassic and epidote tleration local quartz flooding. patchy chlorite. 250.5-265m 0.5% fg-mg diss py in interfingered magnetic mafics and local fracture filling; 265-281.38m tr py, disseminated and ff.	A0149560	ASSAY	TB19127098	250.54	252.00	1.46	0.001	0.003	0.001	0.002	0.001	0.000
			A0149561	ASSAY	TB19127098	252.00	253.50	1.50	0.002	0.003	0.001	0.009	0.018	0.004
			A0149562	ASSAY	TB19127098	253.50	255.00	1.50	0.001	0.003	0.001	0.003	0.001	0.001
			A0149563	ASSAY	TB19127098	255.00	256.50	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149564	ASSAY	TB19127098	256.50	258.00	1.50	0.001	0.003	0.002	0.004	0.002	0.001
			A0149566	ASSAY	TB19127098	258.00	259.50	1.50	0.001	0.003	0.003	0.002	0.000	0.001
			A0149567	ASSAY	TB19127098	259.50	261.00	1.50	0.001	0.003	0.001	0.001	0.001	0.001
			A0149568	ASSAY	TB19127098	261.00	262.50	1.50	0.001	0.003	0.001	0.003	0.001	0.001
			A0149569	ASSAY	TB19127098	262.50	264.00	1.50	0.005	0.003	0.002	0.009	0.004	0.002
			A0149570	ASSAY	TB19127098	264.00	265.50	1.50	0.002	0.003	0.001	0.002	0.002	0.001
			A0149571	ASSAY	TB19127098	265.50	267.00	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149572	ASSAY	TB19127098	267.00	268.50	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149573	ASSAY	TB19127098	268.50	270.00	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149574	ASSAY	TB19127098	270.00	271.50	1.50	0.001	0.003	0.001	0.005	0.002	0.002
			A0149575	ASSAY	TB19127098	271.50	273.00	1.50	0.001	0.003	0.002	0.005	0.002	0.001
			A0149576	ASSAY	TB19127098	273.00	274.50	1.50	0.001	0.003	0.011	0.009	0.001	0.001
			A0149577	ASSAY	TB19127098	274.50	276.00	1.50	0.001	0.003	0.001	0.004	0.004	0.001
			A0149578	ASSAY	TB19127098	276.00	277.50	1.50	0.001	0.003	0.001	0.004	0.001	0.001
			A0149579	ASSAY	TB19127098	277.50	279.00	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149580	ASSAY	TB19127098	279.00	280.38	1.38	0.001	0.003	0.001	0.004	0.001	0.001
280.38	281.48	**DIKE-Intermediate** Feldspar-phyric intermediate dyke sharp contacts at 20dtca.	A0149581	ASSAY	TB19127098	280.38	281.48	1.10	0.001	0.003	0.001	0.001	0.001	0.001

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
281.48	379.00 **TON**	tonalite sharp upper contact. strongly foliated and gneissic throughout with local shearing and folding. 60-70% feldspar 10-15% mafics 15-25% quartz. weak to moderately magnetic throughout (k=1-70), locally can see intercumulus blebs of magnetite. Local potassic and epidote alteration local qtz flooding. patchy chlorite. crosscut by abundant magnetic mafic dykes, some with strong bt-chl alt b/w 286-304m, local crosscutting felsic dykes 281.48-283m tr py, disseminated and ff. 283-294m 1% ff py and py+/-po-ccp coarse blebs in late quartz veins xcutting fol 294-337m tr diss and ff py	A0149582	ASSAY	TB19127098	281.48	282.50	1.02	0.001	0.003	0.001	0.001	0.000	0.001
			A0149583	ASSAY	TB19127098	282.50	283.50	1.00	0.001	0.003	0.001	0.001	0.000	0.000
			A0149584	ASSAY	TB19127098	283.50	285.00	1.50	0.001	0.003	0.001	0.003	0.001	0.001
			A0149586	ASSAY	TB19127098	285.00	286.50	1.50	0.001	0.003	0.001	0.002	0.004	0.001
			A0149587	ASSAY	TB19127098	286.50	288.00	1.50	0.001	0.003	0.001	0.002	0.001	0.001
			A0149588	ASSAY	TB19127098	288.00	289.50	1.50	0.001	0.003	0.001	0.003	0.001	0.001
			A0149589	ASSAY	TB19127098	289.50	291.00	1.50	0.001	0.003	0.001	0.016	0.002	0.002
			A0149590	ASSAY	TB19127098	291.00	292.50	1.50	0.001	0.003	0.001	0.007	0.001	0.002
			A0149591	ASSAY	TB19127098	292.50	294.00	1.50	0.004	0.003	0.001	0.006	0.018	0.003
			A0149592	ASSAY	TB19127098	294.00	295.50	1.50	0.004	0.003	0.001	0.001	0.075	0.005

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	304.47	-49.40	UNCSPRNT	O	
5.00	304.53	-49.22	UNCSPRNT	O	
10.00	304.60	-49.19	UNCSPRNT	O	
15.00	304.63	-49.19	UNCSPRNT	O	
20.00	304.64	-49.21	UNCSPRNT	O	
25.00	304.73	-49.20	UNCSPRNT	O	
30.00	304.78	-49.19	UNCSPRNT	O	
35.00	304.83	-49.18	UNCSPRNT	O	
40.00	304.85	-49.16	UNCSPRNT	O	
45.00	304.86	-49.15	UNCSPRNT	O	
50.00	304.89	-49.15	UNCSPRNT	O	
55.00	304.93	-49.14	UNCSPRNT	O	
60.00	305.06	-49.13	UNCSPRNT	O	
65.00	305.10	-49.11	UNCSPRNT	O	
70.00	305.20	-49.11	UNCSPRNT	O	
75.00	305.13	-49.09	UNCSPRNT	O	
80.00	305.18	-49.11	UNCSPRNT	O	
85.00	305.26	-49.08	UNCSPRNT	O	
90.00	305.28	-49.03	UNCSPRNT	O	
95.00	305.31	-49.08	UNCSPRNT	O	
100.00	305.39	-49.09	UNCSPRNT	O	
105.00	305.48	-49.14	UNCSPRNT	O	
110.00	305.37	-49.13	UNCSPRNT	O	
115.00	305.49	-49.13	UNCSPRNT	O	
120.00	305.46	-49.13	UNCSPRNT	O	
125.00	305.42	-49.13	UNCSPRNT	O	
130.00	305.52	-49.16	UNCSPRNT	O	
135.00	305.50	-49.16	UNCSPRNT	O	
140.00	305.60	-49.15	UNCSPRNT	O	
145.00	305.58	-48.99	UNCSPRNT	O	
150.00	305.70	-49.12	UNCSPRNT	O	
155.00	305.64	-49.13	UNCSPRNT	O	
160.00	305.79	-49.11	UNCSPRNT	O	
165.00	305.84	-49.10	UNCSPRNT	O	
170.00	305.86	-49.09	UNCSPRNT	O	
175.00	305.97	-49.10	UNCSPRNT	O	
180.00	305.98	-49.09	UNCSPRNT	O	

185.00	306.05	-49.09	UNCSPRNT	O
190.00	306.16	-49.08	UNCSPRNT	O
195.00	306.31	-49.06	UNCSPRNT	O
200.00	306.30	-49.06	UNCSPRNT	O
205.00	306.33	-49.06	UNCSPRNT	O
210.00	306.37	-49.04	UNCSPRNT	O
215.00	306.45	-49.04	UNCSPRNT	O
220.00	306.52	-49.05	UNCSPRNT	O
225.00	306.52	-49.08	UNCSPRNT	O
230.00	306.65	-49.06	UNCSPRNT	O
235.00	306.66	-49.06	UNCSPRNT	O
240.00	306.74	-49.07	UNCSPRNT	O
245.00	306.93	-49.09	UNCSPRNT	O
250.00	306.93	-49.09	UNCSPRNT	O
255.00	307.06	-49.17	UNCSPRNT	O
260.00	307.08	-49.17	UNCSPRNT	O
265.00	307.14	-49.17	UNCSPRNT	O
270.00	307.14	-49.14	UNCSPRNT	O
275.00	307.14	-49.10	UNCSPRNT	O
280.00	307.14	-49.09	UNCSPRNT	O
285.00	307.28	-49.06	UNCSPRNT	O
290.00	307.39	-48.97	UNCSPRNT	O
295.00	307.60	-48.93	UNCSPRNT	O
300.00	307.71	-48.92	UNCSPRNT	O
305.00	307.64	-48.90	UNCSPRNT	O
310.00	307.76	-48.84	UNCSPRNT	O
315.00	307.73	-48.81	UNCSPRNT	O
320.00	307.73	-48.79	UNCSPRNT	O
325.00	307.83	-48.73	UNCSPRNT	O
330.00	307.71	-48.69	UNCSPRNT	O
335.00	307.89	-48.67	UNCSPRNT	O
340.00	307.85	-48.59	UNCSPRNT	O
345.00	307.89	-48.59	UNCSPRNT	O
350.00	308.07	-48.55	UNCSPRNT	O
355.00	308.05	-48.55	UNCSPRNT	O
360.00	308.02	-48.54	UNCSPRNT	O

Detailed Log Report
Hole Number 19-602

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,226.14	**Length:**	338.00
Location:		**East:**	31,455.43	**Hole Size:**	NQ
Start Date:	May 05, 2019	**Elev:**	496.78	**Hole Type:**	DDH
Completed Date:	May 09, 2019	**Collar Dip:**	-50.54	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	306.03	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,448,843.85	**Multishot Survey:**	N
Start Log:	May 08, 2019	**East:**	308,800.50	**EOH:**	338.00
End Log:	May 11, 2019	**Elev:**	496.78	**Artesian Cond:**	No
Logged By 1:	Justin Jonsson	**Claim:**	253	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	4.75	**OB**												
4.75	35.97	**TON**												

4.75-35.97: Foliated tonalite

Typical heterogeneous tonalite w/ patchy K-alt. Foliated throughout. Contact with underlying dike sharp, straight at 70 deg tca. Few large bands/blebs py.

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
35.97	37.25	**DIKE-Mafic** 35.97-37.25: Intermediate dike Very fine-grained to aphanitic intermediate dike. Sharp, straight 70 deg contact												
37.25	67.67	**TON** 37.25-67.67: Foliated tonalite Typical heterogeneous tonalite w/ patchy K-alt. Foliated at 50-70 deg throughout. Few large bands/blebs py. Bottom contact unusually diffuse for TON contact. Hard to pinpoint contact but certainly occurs between 66-69m. 67.67 chose due to sharp drop in plag content and gradual decrease in K-alt in area	A0149593	ASSAY	TB19127098	57.00	58.00	1.00	0.001	0.003	0.001	0.003	0.001	0.001
			A0149594	ASSAY	TB19127098	58.00	59.00	1.00	0.002	0.003	0.001	0.007	0.002	0.002
			A0149595	ASSAY	TB19127098	59.00	60.00	1.00	0.001	0.003	0.001	0.002	0.002	0.001
			A0149596	ASSAY	TB19127098	60.00	61.00	1.00	0.001	0.003	0.001	0.002	0.001	0.001
			A0149597	ASSAY	TB19127098	61.00	62.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
			A0149598	ASSAY	TB19127098	62.00	63.00	1.00	0.001	0.003	0.001	0.002	0.001	0.001
			A0149599	ASSAY	TB19127098	63.00	64.00	1.00	0.001	0.003	0.001	0.003	0.002	0.002
			A0149600	ASSAY	TB19127098	64.00	65.00	1.00	0.001	0.003	0.001	0.004	0.004	0.002
			A0149601	ASSAY	TB19127098	65.00	66.00	1.00	0.001	0.003	0.001	0.006	0.005	0.002
			A0149605	ASSAY	TB19172684	66.00	67.00	1.00	0.001	0.003	0.001	0.006	0.006	0.003
			A0149606	ASSAY	TB19172684	67.00	67.67	0.67	0.001	0.003	0.001	0.007	0.008	0.002

From	To	Lithology
67.67	143.98	**NOR-Vt**

67.67-144.00: Varitextured norite.

Dark grey to dull green. Dominantly weak chl/act alt. 50% homogeneuous fine to medium-grained norite, 50% varitextured intervals (including ~10% pegmatitic sections throughout). Massive. Low magnetism (<2 through entire unit). Somewhat blocky in patches. Bottom contact defined by disappearance of varied texture, which coincides with alteration increasing. No visible sulfides aside from trace int/dis po>cpy at 118.42-130.21.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149607	ASSAY	TB19172684	67.67	69.00	1.33	0.001	0.003	0.001	0.009	0.015	0.003
A0149608	ASSAY	TB19172684	69.00	70.00	1.00	0.001	0.003	0.002	0.012	0.023	0.004
A0149609	ASSAY	TB19172684	70.00	71.00	1.00	0.001	0.003	0.004	0.013	0.024	0.005
A0149610	ASSAY	TB19172684	71.00	72.00	1.00	0.001	0.003	0.004	0.012	0.024	0.005
A0149611	ASSAY	TB19172684	72.00	73.00	1.00	0.009	0.008	0.008	0.015	0.030	0.005
A0149612	ASSAY	TB19172684	73.00	74.00	1.00	0.028	0.026	0.012	0.018	0.028	0.005
A0149613	ASSAY	TB19172684	74.00	75.00	1.00	0.009	0.016	0.014	0.015	0.028	0.004
A0149614	ASSAY	TB19172684	75.00	76.00	1.00	0.004	0.008	0.016	0.015	0.029	0.005
A0149615	ASSAY	TB19172684	76.00	77.00	1.00	0.009	0.017	0.026	0.023	0.032	0.004
A0149616	ASSAY	TB19172684	77.00	78.00	1.00	0.006	0.011	0.016	0.020	0.031	0.004
A0149617	ASSAY	TB19172684	78.00	79.00	1.00	0.006	0.011	0.016	0.015	0.030	0.005
A0149618	ASSAY	TB19172684	79.00	80.00	1.00	0.004	0.003	0.011	0.016	0.028	0.004
A0149619	ASSAY	TB19172684	80.00	81.00	1.00	0.012	0.018	0.036	0.027	0.039	0.005
A0149620	ASSAY	TB19172684	81.00	82.00	1.00	0.004	0.007	0.012	0.013	0.028	0.004
A0149621	ASSAY	TB19172684	82.00	83.00	1.00	0.008	0.016	0.015	0.014	0.029	0.004
A0149622	ASSAY	TB19172684	83.00	84.00	1.00	0.001	0.003	0.003	0.016	0.028	0.004
A0149624	ASSAY	TB19172684	84.00	85.00	1.00	0.001	0.003	0.003	0.010	0.027	0.004
A0149625	ASSAY	TB19172684	85.00	86.00	1.00	0.003	0.003	0.005	0.011	0.028	0.004
A0149626	ASSAY	TB19172684	86.00	87.00	1.00	0.003	0.003	0.006	0.012	0.029	0.004
A0149627	ASSAY	TB19172684	87.00	88.00	1.00	0.007	0.011	0.018	0.026	0.041	0.005
A0149628	ASSAY	TB19172684	88.00	89.00	1.00	0.002	0.003	0.014	0.016	0.031	0.004
A0149629	ASSAY	TB19172684	89.00	90.00	1.00	0.002	0.003	0.016	0.013	0.033	0.004
A0149630	ASSAY	TB19172684	90.00	91.00	1.00	0.003	0.008	0.015	0.010	0.033	0.005
A0149631	ASSAY	TB19172684	91.00	92.00	1.00	0.009	0.016	0.014	0.007	0.031	0.004
A0149632	ASSAY	TB19172684	92.00	93.00	1.00	0.043	0.056	0.026	0.011	0.037	0.005
A0149633	ASSAY	TB19172684	93.00	94.00	1.00	0.023	0.032	0.014	0.008	0.030	0.005
A0149634	ASSAY	TB19172684	94.00	95.00	1.00	0.031	0.043	0.022	0.008	0.035	0.005
A0149635	ASSAY	TB19172684	95.00	96.00	1.00	0.029	0.043	0.017	0.009	0.035	0.005
A0149636	ASSAY	TB19172684	96.00	97.00	1.00	0.029	0.041	0.015	0.008	0.034	0.005
A0149637	ASSAY	TB19172684	97.00	98.00	1.00	0.029	0.040	0.017	0.009	0.035	0.005
A0149638	ASSAY	TB19172684	98.00	99.00	1.00	0.028	0.043	0.015	0.009	0.035	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149639	ASSAY	TB19172684	99.00	100.00	1.00	0.029	0.045	0.016	0.009	0.035	0.005
			A0149640	ASSAY	TB19172684	100.00	101.00	1.00	0.029	0.045	0.014	0.010	0.033	0.005
			A0149641	ASSAY	TB19172684	101.00	102.00	1.00	0.029	0.044	0.018	0.009	0.035	0.005
			A0149642	ASSAY	TB19172684	102.00	103.00	1.00	0.029	0.044	0.019	0.010	0.034	0.005
			A0149644	ASSAY	TB19172684	103.00	104.00	1.00	0.028	0.042	0.021	0.011	0.035	0.005
			A0149645	ASSAY	TB19172684	104.00	105.00	1.00	0.028	0.043	0.018	0.012	0.033	0.005
			A0149646	ASSAY	TB19172684	105.00	106.00	1.00	0.027	0.043	0.021	0.010	0.033	0.005
			A0149647	ASSAY	TB19172684	106.00	107.00	1.00	0.028	0.041	0.019	0.011	0.033	0.005
			A0149648	ASSAY	TB19172684	107.00	108.00	1.00	0.029	0.041	0.021	0.011	0.032	0.005
			A0149649	ASSAY	TB19172684	108.00	109.00	1.00	0.021	0.031	0.010	0.007	0.032	0.005
			A0149650	ASSAY	TB19172684	109.00	110.00	1.00	0.016	0.025	0.004	0.007	0.030	0.005
			A0149651	ASSAY	TB19172684	110.00	111.00	1.00	0.026	0.041	0.006	0.010	0.031	0.005
			A0149652	ASSAY	TB19172684	111.00	112.00	1.00	0.027	0.042	0.010	0.012	0.030	0.005
			A0149653	ASSAY	TB19172684	112.00	113.00	1.00	0.020	0.027	0.008	0.010	0.026	0.004
			A0149654	ASSAY	TB19172684	113.00	114.00	1.00	0.027	0.040	0.014	0.010	0.029	0.005
			A0149655	ASSAY	TB19172684	114.00	115.00	1.00	0.028	0.043	0.011	0.011	0.029	0.005
			A0149656	ASSAY	TB19172684	115.00	116.00	1.00	0.029	0.044	0.008	0.012	0.028	0.005
			A0149657	ASSAY	TB19172684	116.00	117.00	1.00	0.008	0.014	0.005	0.013	0.026	0.005
			A0149658	ASSAY	TB19172684	117.00	118.00	1.00	0.001	0.003	0.005	0.014	0.027	0.004
			A0149659	ASSAY	TB19172684	118.00	119.00	1.00	0.005	0.011	0.008	0.021	0.035	0.005
			A0149660	ASSAY	TB19172684	119.00	120.00	1.00	0.001	0.003	0.006	0.014	0.028	0.004
			A0149661	ASSAY	TB19203735	120.00	121.00	1.00	0.023	0.034	0.008	0.015	0.029	0.005
			A0149662	ASSAY	TB19203735	121.00	122.00	1.00	0.018	0.029	0.004	0.014	0.028	0.005
			A0149664	ASSAY	TB19203735	122.00	123.00	1.00	0.004	0.006	0.005	0.025	0.031	0.005
			A0149665	ASSAY	TB19203735	123.00	124.00	1.00	0.004	0.006	0.008	0.031	0.032	0.005
			A0149666	ASSAY	TB19172684	124.00	125.00	1.00	0.024	0.033	0.011	0.014	0.030	0.005
			A0149667	ASSAY	TB19172684	125.00	126.00	1.00	0.017	0.016	0.020	0.031	0.026	0.006
			A0149668	ASSAY	TB19172684	126.00	127.00	1.00	0.005	0.007	0.009	0.015	0.025	0.005
			A0149669	ASSAY	TB19172684	127.00	128.00	1.00	0.001	0.003	0.003	0.008	0.020	0.004
			A0149670	ASSAY	TB19172684	128.00	129.00	1.00	0.003	0.003	0.005	0.016	0.025	0.005
			A0149671	ASSAY	TB19172684	129.00	130.00	1.00	0.001	0.003	0.007	0.016	0.025	0.005
			A0149672	ASSAY	TB19172684	130.00	131.00	1.00	0.002	0.003	0.004	0.016	0.028	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149673	ASSAY	TB19172684	131.00	132.00	1.00	0.001	0.003	0.001	0.005	0.016	0.003
			A0149674	ASSAY	TB19172684	132.00	133.00	1.00	0.004	0.003	0.004	0.015	0.022	0.005
			A0149675	ASSAY	TB19172684	133.00	134.00	1.00	0.003	0.005	0.004	0.016	0.026	0.005
			A0149676	ASSAY	TB19172684	134.00	135.00	1.00	0.002	0.005	0.004	0.014	0.029	0.004
			A0149677	ASSAY	TB19172684	135.00	136.00	1.00	0.001	0.003	0.002	0.014	0.027	0.004
			A0149678	ASSAY	TB19172684	136.00	137.00	1.00	0.001	0.003	0.001	0.010	0.026	0.005
			A0149679	ASSAY	TB19172684	137.00	138.00	1.00	0.005	0.007	0.004	0.014	0.027	0.005
			A0149683	ASSAY	TB19172685	138.00	139.00	1.00	0.027	0.031	0.017	0.011	0.048	0.008
			A0149684	ASSAY	TB19172685	139.00	140.00	1.00	0.027	0.032	0.018	0.010	0.037	0.006
			A0149685	ASSAY	TB19172685	140.00	141.00	1.00	0.026	0.034	0.018	0.010	0.030	0.005
			A0149686	ASSAY	TB19172685	141.00	142.00	1.00	0.028	0.039	0.019	0.010	0.030	0.005
			A0149687	ASSAY	TB19172685	142.00	143.00	1.00	0.029	0.042	0.018	0.010	0.029	0.005
			A0149688	ASSAY	TB19172685	143.00	143.98	0.98	0.022	0.028	0.013	0.011	0.027	0.010
143.98	158.62	**NOR** 143.98-158.62: Medium-grained strongly altered norite Have seen this unit logged as either gabbro or norite in the past - chose norite due to low plag content, consistent purple plag, and gradational contacts between strong and weak alt sections in unit below dike (in which weak alt sections are clearly noritic). Dull green, medium-grained, massive. Consistent strong chl/act alt throughout unit. Non-magnetic (<1 kappa). Mostly competent. Single K-alt felsic dike at 30 deg (149.68-150.03). Upper contact defined by disappearance of varied texture, bottom contact sharp (30 deg). Tr dis py at 150-152.3, otherwise unmineralized.	A0149689	ASSAY	TB19172685	143.98	145.00	1.02	0.031	0.041	0.016	0.011	0.030	0.005
			A0149690	ASSAY	TB19172685	145.00	146.00	1.00	0.032	0.038	0.018	0.011	0.031	0.005
			A0149691	ASSAY	TB19172685	146.00	147.00	1.00	0.030	0.041	0.019	0.010	0.030	0.005
			A0149692	ASSAY	TB19172685	147.00	148.00	1.00	0.029	0.037	0.018	0.011	0.030	0.005
			A0149693	ASSAY	TB19172685	148.00	149.00	1.00	0.027	0.035	0.016	0.010	0.030	0.005
			A0149694	ASSAY	TB19172685	149.00	150.00	1.00	0.017	0.023	0.007	0.006	0.019	0.003
			A0149695	ASSAY	TB19172685	150.00	151.00	1.00	0.020	0.026	0.012	0.010	0.026	0.005
			A0149696	ASSAY	TB19172685	151.00	152.00	1.00	0.029	0.036	0.019	0.010	0.031	0.005
			A0149697	ASSAY	TB19172685	152.00	153.00	1.00	0.028	0.036	0.019	0.009	0.032	0.005
			A0149698	ASSAY	TB19172685	153.00	154.00	1.00	0.027	0.036	0.018	0.010	0.032	0.005
			A0149699	ASSAY	TB19172685	154.00	155.00	1.00	0.027	0.034	0.018	0.009	0.031	0.005
			A0149700	ASSAY	TB19172685	155.00	156.00	1.00	0.029	0.035	0.017	0.009	0.032	0.005
			A0149702	ASSAY	TB19172685	156.00	157.00	1.00	0.028	0.035	0.017	0.009	0.032	0.005
			A0149703	ASSAY	TB19172685	157.00	158.00	1.00	0.027	0.036	0.018	0.010	0.035	0.005
			A0149704	ASSAY	TB19172685	158.00	158.62	0.62	0.028	0.037	0.007	0.008	0.034	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
158.62	163.28	**DIKE-Tonalite** 158.62-163.28: Foliated tonalite dike Speckled black and white, ~70% feldspar w/ lesser qtz and bt/hbl, Patchy K-alt throughout. Foliated. Bottom contact sharp at 70 deg.	A0149705	ASSAY	TB19172685	158.62	160.00	1.38	0.002	0.003	0.001	0.001	0.004	0.001
			A0149706	ASSAY	TB19172685	160.00	161.00	1.00	0.001	0.003	0.001	0.001	0.001	0.000
			A0149707	ASSAY	TB19172685	161.00	162.00	1.00	0.001	0.003	0.001	0.002	0.003	0.001
			A0149708	ASSAY	TB19172685	162.00	163.28	1.28	0.001	0.003	0.001	0.003	0.001	0.001

From	To	Lithology
163.28	192.54	**NOR**

163.28-192.54: Medium-grained variably altered norite

Continuation of unit above tonalite dike. Have seen this unit logged as either gabbro or norite in the past - chose norite due to low plag content, consistent purple plag, and gradational contacts between strong and weak alt sections (in which weak alt sections are clearly noritic).

Dull green to purple-grey, medium-grained, massive. Chl/act alt is patchy but dominantly strong to 181.10, after which it is dominantly weak. Non-magnetic (<2 kappa). Competent. Two ~20 cm felsic dikes at ~179-180. Sharp upper and lower contacts. Patchy po>cpy at 174.20-174.52 and 183.05-192.54, up to 1% over <40 cm intervals but trace overall.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149709	ASSAY	TB19172685	163.28	164.00	0.72	0.052	0.043	0.009	0.010	0.028	0.005
A0149710	ASSAY	TB19172685	164.00	165.00	1.00	0.044	0.036	0.011	0.009	0.026	0.005
A0149711	ASSAY	TB19172685	165.00	166.00	1.00	0.057	0.046	0.008	0.007	0.032	0.005
A0149712	ASSAY	TB19172685	166.00	167.00	1.00	0.063	0.048	0.025	0.010	0.032	0.005
A0149713	ASSAY	TB19172685	167.00	168.00	1.00	0.065	0.054	0.012	0.007	0.035	0.005
A0149714	ASSAY	TB19172685	168.00	169.00	1.00	0.063	0.054	0.022	0.010	0.035	0.005
A0149715	ASSAY	TB19172685	169.00	170.00	1.00	0.067	0.055	0.025	0.011	0.034	0.005
A0149716	ASSAY	TB19172685	170.00	171.00	1.00	0.065	0.055	0.025	0.011	0.034	0.005
A0149717	ASSAY	TB19172685	171.00	172.00	1.00	0.063	0.052	0.025	0.012	0.036	0.005
A0149718	ASSAY	TB19172685	172.00	173.00	1.00	0.064	0.053	0.025	0.012	0.037	0.005
A0149719	ASSAY	TB19172685	173.00	174.00	1.00	0.044	0.054	0.057	0.026	0.044	0.006
A0149720	ASSAY	TB19172685	174.00	175.00	1.00	0.074	0.062	0.063	0.041	0.059	0.007
A0149722	ASSAY	TB19172685	175.00	176.00	1.00	0.055	0.053	0.020	0.010	0.036	0.005
A0149723	ASSAY	TB19172685	176.00	177.00	1.00	0.051	0.044	0.021	0.011	0.038	0.005
A0149724	ASSAY	TB19172685	177.00	178.00	1.00	0.043	0.042	0.018	0.010	0.038	0.006
A0149725	ASSAY	TB19172685	178.00	179.00	1.00	0.067	0.053	0.026	0.018	0.041	0.006
A0149726	ASSAY	TB19172685	179.00	180.00	1.00	0.251	0.128	0.091	0.055	0.061	0.004
A0149727	ASSAY	TB19172685	180.00	181.00	1.00	0.088	0.072	0.078	0.038	0.058	0.006
A0149728	ASSAY	TB19172685	181.00	182.00	1.00	0.010	0.019	0.020	0.023	0.034	0.004
A0149729	ASSAY	TB19172685	182.00	183.00	1.00	0.008	0.016	0.018	0.016	0.034	0.005
A0149730	ASSAY	TB19172685	183.00	184.00	1.00	0.018	0.022	0.027	0.037	0.050	0.005
A0149731	ASSAY	TB19172685	184.00	185.00	1.00	0.011	0.011	0.020	0.027	0.040	0.005
A0149732	ASSAY	TB19172685	185.00	186.00	1.00	0.023	0.033	0.028	0.022	0.033	0.004
A0149733	ASSAY	TB19172685	186.00	187.00	1.00	0.008	0.014	0.016	0.014	0.032	0.005
A0149734	ASSAY	TB19172685	187.00	188.00	1.00	0.010	0.015	0.010	0.019	0.031	0.005
A0149735	ASSAY	TB19172685	188.00	189.00	1.00	0.002	0.003	0.009	0.013	0.028	0.005
A0149736	ASSAY	TB19172685	189.00	190.00	1.00	0.002	0.003	0.012	0.013	0.031	0.005
A0149737	ASSAY	TB19172685	190.00	191.00	1.00	0.003	0.005	0.010	0.020	0.031	0.005
A0149738	ASSAY	TB19172685	191.00	191.75	0.75	0.006	0.007	0.007	0.016	0.027	0.004
A0149739	ASSAY	TB19172685	191.75	192.54	0.79	0.013	0.015	0.012	0.017	0.029	0.004

From	To	Lithology
192.54	206.40	**GAB-Vt** 192.54-206.40: Varitextured gabbro Dull medium green. Medium-grained. Consistent weak to mod chl/act. Massive, varitextured throughout. Low magnetism (<2 kappa). Competent. Wispy felsic dike near bottom contact at 205.48-206.10. Top contact sharp, bottom contact distinct but diffuse over ~20 cm. Few trace specks of int po>cpy throughout.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149740	ASSAY	TB19172685	192.54	193.25	0.71	0.001	0.003	0.001	0.008	0.016	0.003
A0149742	ASSAY	TB19172685	193.25	194.00	0.75	0.001	0.003	0.002	0.011	0.018	0.003
A0149743	ASSAY	TB19172685	194.00	195.00	1.00	0.023	0.024	0.017	0.024	0.036	0.005
A0149744	ASSAY	TB19172685	195.00	196.00	1.00	0.016	0.021	0.016	0.025	0.030	0.004
A0149745	ASSAY	TB19172685	196.00	197.00	1.00	0.004	0.003	0.005	0.011	0.026	0.004
A0149746	ASSAY	TB19172685	197.00	198.00	1.00	0.002	0.003	0.006	0.014	0.030	0.005
A0149747	ASSAY	TB19172685	198.00	199.00	1.00	0.002	0.003	0.005	0.009	0.030	0.005
A0149748	ASSAY	TB19172685	199.00	200.00	1.00	0.002	0.005	0.005	0.008	0.030	0.005
A0149749	ASSAY	TB19172685	200.00	201.00	1.00	0.002	0.003	0.013	0.014	0.030	0.005
A0149750	ASSAY	TB19172685	201.00	202.00	1.00	0.018	0.023	0.012	0.018	0.034	0.005
A0149751	ASSAY	TB19172685	202.00	203.00	1.00	0.024	0.018	0.012	0.019	0.035	0.005
A0149752	ASSAY	TB19172685	203.00	204.00	1.00	0.059	0.093	0.018	0.014	0.030	0.004
A0149753	ASSAY	TB19172685	204.00	205.00	1.00	0.032	0.039	0.010	0.026	0.032	0.005
A0149754	ASSAY	TB19172685	205.00	205.70	0.70	0.007	0.007	0.002	0.012	0.032	0.005
A0149755	ASSAY	TB19172685	205.70	206.40	0.70	0.005	0.030	0.001	0.001	0.026	0.003

From	To	Lithology
206.40	262.50	**NOR**

206.40-_____: Fresh norite w/ patchy po>cpy, 10% GABVT, minor NOR-Bx subunit.

10% weakly altered varitextured gabbro intervals throughout unit. NOR-Bx subunit w/ 50% magnetite-bearing matrix at 251.33-254.92.

Dull purple-grey. Fresh/weakly altered throughout unit. 1-2% visible bronzite in patches. Massive. Variable weak magnetism (1-20 kappa), varying without obvious textural/compositional change. Competent. Upper and lower contacts distinct but diffuse over ~20-30 cm. Tr dis py and dis/int po/cpy (separate assemblages) throughout. 0.5% interstitial po>cpy at 221.90-229.0, 1.0% po>cpy at 258.89-261.20.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149756	ASSAY	TB19172685	206.40	207.00	0.60	0.010	0.009	0.008	0.024	0.039	0.005
A0149757	ASSAY	TB19172685	207.00	208.00	1.00	0.007	0.007	0.005	0.016	0.030	0.005
A0149761	ASSAY	TB19172686	208.00	209.00	1.00	0.009	0.010	0.008	0.019	0.035	0.006
A0149762	ASSAY	TB19172686	209.00	210.00	1.00	0.010	0.012	0.010	0.022	0.037	0.006
A0149763	ASSAY	TB19172686	210.00	211.00	1.00	0.007	0.005	0.005	0.016	0.028	0.005
A0149764	ASSAY	TB19172686	211.00	212.00	1.00	0.005	0.003	0.005	0.014	0.027	0.005
A0149765	ASSAY	TB19172686	212.00	213.00	1.00	0.013	0.014	0.008	0.020	0.034	0.006
A0149766	ASSAY	TB19172686	213.00	214.00	1.00	0.017	0.025	0.009	0.025	0.038	0.006
A0149767	ASSAY	TB19172686	214.00	215.00	1.00	0.011	0.013	0.006	0.021	0.034	0.006
A0149768	ASSAY	TB19172686	215.00	216.00	1.00	0.009	0.007	0.005	0.021	0.059	0.008
A0149769	ASSAY	TB19172686	216.00	217.00	1.00	0.009	0.008	0.013	0.020	0.077	0.009
A0149770	ASSAY	TB19172686	217.00	218.00	1.00	0.012	0.012	0.011	0.028	0.042	0.006
A0149771	ASSAY	TB19172686	218.00	219.00	1.00	0.009	0.009	0.009	0.023	0.027	0.005
A0149772	ASSAY	TB19172686	219.00	220.00	1.00	0.020	0.020	0.008	0.021	0.036	0.005
A0149773	ASSAY	TB19172686	220.00	221.00	1.00	0.005	0.005	0.005	0.018	0.031	0.005
A0149774	ASSAY	TB19172686	221.00	222.00	1.00	0.009	0.010	0.007	0.017	0.031	0.005
A0149775	ASSAY	TB19172686	222.00	223.00	1.00	0.010	0.012	0.019	0.030	0.039	0.005
A0149776	ASSAY	TB19172686	223.00	224.00	1.00	0.010	0.009	0.010	0.025	0.036	0.006
A0149777	ASSAY	TB19172686	224.00	225.00	1.00	0.018	0.016	0.010	0.025	0.033	0.006
A0149778	ASSAY	TB19172686	225.00	226.00	1.00	0.016	0.019	0.018	0.035	0.040	0.006
A0149780	ASSAY	TB19172686	226.00	227.00	1.00	0.024	0.025	0.039	0.045	0.047	0.006
A0149781	ASSAY	TB19172686	227.00	228.00	1.00	0.031	0.027	0.024	0.054	0.049	0.006
A0149782	ASSAY	TB19172686	228.00	229.00	1.00	0.018	0.021	0.018	0.038	0.041	0.006
A0149783	ASSAY	TB19172686	229.00	230.00	1.00	0.011	0.011	0.007	0.018	0.027	0.005
A0149784	ASSAY	TB19172686	230.00	231.00	1.00	0.006	0.005	0.005	0.020	0.028	0.005
A0149785	ASSAY	TB19172686	231.00	232.00	1.00	0.001	0.003	0.001	0.013	0.024	0.005
A0149786	ASSAY	TB19172686	232.00	233.00	1.00	0.001	0.003	0.002	0.012	0.023	0.005
A0149787	ASSAY	TB19172686	233.00	234.00	1.00	0.008	0.009	0.008	0.020	0.032	0.005
A0149788	ASSAY	TB19172686	234.00	235.00	1.00	0.010	0.012	0.009	0.021	0.035	0.006
A0149789	ASSAY	TB19172686	235.00	236.00	1.00	0.017	0.020	0.027	0.045	0.047	0.006
A0149790	ASSAY	TB19172686	236.00	237.00	1.00	0.077	0.057	0.060	0.101	0.096	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149791	ASSAY	TB19172686	237.00	238.00	1.00	0.008	0.009	0.014	0.032	0.033	0.004
			A0149792	ASSAY	TB19172686	238.00	239.00	1.00	0.058	0.045	0.013	0.038	0.066	0.008
			A0149793	ASSAY	TB19172686	239.00	240.00	1.00	0.006	0.003	0.006	0.018	0.025	0.005
			A0149794	ASSAY	TB19172686	240.00	241.00	1.00	0.008	0.003	0.012	0.026	0.027	0.005
			A0149795	ASSAY	TB19172686	241.00	242.00	1.00	0.006	0.003	0.005	0.019	0.026	0.005
			A0149796	ASSAY	TB19172686	242.00	243.00	1.00	0.003	0.003	0.004	0.015	0.026	0.005
			A0149797	ASSAY	TB19172686	243.00	244.00	1.00	0.003	0.003	0.005	0.013	0.025	0.005
			A0149798	ASSAY	TB19172686	244.00	245.00	1.00	0.003	0.003	0.002	0.013	0.023	0.005
			A0149800	ASSAY	TB19172686	245.00	246.00	1.00	0.007	0.009	0.006	0.019	0.031	0.006
			A0149801	ASSAY	TB19172686	246.00	247.00	1.00	0.025	0.023	0.019	0.047	0.045	0.006
			A0149802	ASSAY	TB19172686	247.00	248.00	1.00	0.001	0.003	0.001	0.013	0.022	0.004
			A0149803	ASSAY	TB19172686	248.00	249.00	1.00	0.001	0.003	0.001	0.012	0.022	0.004
			A0149804	ASSAY	TB19172686	249.00	250.00	1.00	0.001	0.003	0.001	0.012	0.023	0.005
			A0149805	ASSAY	TB19172686	250.00	251.00	1.00	0.001	0.003	0.003	0.012	0.022	0.005
			A0149806	ASSAY	TB19172686	251.00	252.00	1.00	0.003	0.003	0.001	0.009	0.016	0.005
			A0149807	ASSAY	TB19172686	252.00	253.00	1.00	0.005	0.003	0.001	0.010	0.015	0.006
			A0149808	ASSAY	TB19172686	253.00	254.00	1.00	0.003	0.003	0.001	0.010	0.015	0.005
			A0149809	ASSAY	TB19172686	254.00	255.00	1.00	0.007	0.003	0.001	0.009	0.016	0.005
			A0149810	ASSAY	TB19172686	255.00	256.00	1.00	0.001	0.003	0.001	0.010	0.022	0.005
			A0149811	ASSAY	TB19172686	256.00	257.00	1.00	0.007	0.006	0.005	0.020	0.029	0.005
			A0149812	ASSAY	TB19172686	257.00	258.00	1.00	0.015	0.010	0.005	0.016	0.027	0.005
			A0149813	ASSAY	TB19172686	258.00	259.00	1.00	0.011	0.012	0.008	0.021	0.029	0.005
			A0149814	ASSAY	TB19172686	259.00	260.00	1.00	0.048	0.043	0.042	0.085	0.069	0.007
			A0149815	ASSAY	TB19172686	260.00	261.00	1.00	0.050	0.050	0.039	0.087	0.068	0.006
			A0149816	ASSAY	TB19172686	261.00	261.75	0.75	0.012	0.009	0.011	0.032	0.034	0.004
			A0149817	ASSAY	TB19172686	261.75	262.50	0.75	0.001	0.003	0.004	0.016	0.025	0.005

From	To	Lithology
262.50	303.52	**GAB-Vt**

262.50-303.52: Weak alt varitextured gabbro w/ patchy po>cpy, 30% varitextured norite intervals

Dull grey-green to grey-purple. 30% of unit is noritic with ~2% visible bronzite and intermittent purple plag. Consistent weak chl/act alt throughout. Massive. Variable magnetism throughout (0-40 kappa), variable over small scale without obvious textural/compositional change. Mag is generally higher in more noritic sections. Competent. Upper contact distinct but diffuse over ~20-30 cm, bottom contact sharp at 60 deg. Small shear zone near top contact at 263.00-263.64 (cm-scale strongly sheared/locally crenulated dikelets and qtz vns at margins of shear zone, ser/K-alt and chaotic veining through middle of zone. Trace int/dis po>cpy throughout, including 0.5% at 270.23-273.44. Tr dis and small euhdral py grains at 284.25-284.30.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149818	ASSAY	TB19172686	262.50	263.25	0.75	0.002	0.003	0.004	0.014	0.024	0.004
A0149820	ASSAY	TB19172686	263.25	264.00	0.75	0.039	0.026	0.005	0.012	0.036	0.005
A0149821	ASSAY	TB19172686	264.00	265.00	1.00	0.148	0.107	0.045	0.089	0.079	0.006
A0149822	ASSAY	TB19172686	265.00	266.00	1.00	0.010	0.008	0.005	0.023	0.030	0.005
A0149823	ASSAY	TB19172686	266.00	267.00	1.00	0.047	0.068	0.023	0.035	0.033	0.005
A0149824	ASSAY	TB19172686	267.00	268.00	1.00	0.017	0.019	0.016	0.018	0.024	0.004
A0149825	ASSAY	TB19172686	268.00	269.00	1.00	0.006	0.005	0.009	0.016	0.026	0.005
A0149826	ASSAY	TB19172686	269.00	270.00	1.00	0.018	0.028	0.010	0.016	0.027	0.005
A0149827	ASSAY	TB19172686	270.00	271.00	1.00	0.330	0.261	0.161	0.114	0.072	0.006
A0149828	ASSAY	TB19172686	271.00	272.00	1.00	0.146	0.137	0.044	0.045	0.040	0.005
A0149829	ASSAY	TB19172686	272.00	273.00	1.00	0.180	0.202	0.044	0.048	0.049	0.005
A0149830	ASSAY	TB19172686	273.00	274.00	1.00	0.055	0.084	0.018	0.020	0.028	0.004
A0149831	ASSAY	TB19172686	274.00	275.00	1.00	0.003	0.003	0.005	0.012	0.025	0.004
A0149832	ASSAY	TB19172686	275.00	276.00	1.00	0.005	0.006	0.009	0.015	0.026	0.005
A0149833	ASSAY	TB19172686	276.00	277.00	1.00	0.005	0.005	0.012	0.014	0.026	0.005
A0149834	ASSAY	TB19172686	277.00	278.00	1.00	0.001	0.003	0.005	0.009	0.028	0.005
A0149835	ASSAY	TB19172686	278.00	279.00	1.00	0.001	0.003	0.004	0.010	0.029	0.005
A0149839	ASSAY	TB19172669	279.00	280.00	1.00	0.001	0.003	0.004	0.011	0.030	0.005
A0149840	ASSAY	TB19172669	280.00	281.00	1.00	0.001	0.003	0.003	0.013	0.028	0.005
A0149841	ASSAY	TB19172669	281.00	282.00	1.00	0.001	0.003	0.003	0.015	0.026	0.005
A0149842	ASSAY	TB19172669	282.00	283.00	1.00	0.001	0.003	0.003	0.014	0.027	0.005
A0149843	ASSAY	TB19172669	283.00	284.00	1.00	0.001	0.008	0.003	0.013	0.026	0.005
A0149844	ASSAY	TB19172669	284.00	285.00	1.00	0.002	0.007	0.010	0.020	0.027	0.005
A0149845	ASSAY	TB19172669	285.00	286.00	1.00	0.003	0.010	0.021	0.046	0.045	0.006
A0149846	ASSAY	TB19172669	286.00	287.00	1.00	0.001	0.003	0.022	0.038	0.045	0.006
A0149847	ASSAY	TB19172669	287.00	288.00	1.00	0.001	0.003	0.002	0.012	0.023	0.005
A0149848	ASSAY	TB19172669	288.00	289.00	1.00	0.001	0.003	0.001	0.014	0.021	0.005
A0149849	ASSAY	TB19172669	289.00	290.00	1.00	0.001	0.003	0.001	0.007	0.014	0.003
A0149850	ASSAY	TB19172669	290.00	291.00	1.00	0.001	0.003	0.001	0.009	0.014	0.003
A0149851	ASSAY	TB19172669	291.00	292.00	1.00	0.001	0.003	0.001	0.012	0.017	0.004
A0149852	ASSAY	TB19203727	292.00	293.00	1.00	0.002	0.003	0.008	0.042	0.024	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0149853	ASSAY	TB19203727	293.00	294.00	1.00	0.010	0.011	0.012	0.050	0.036	0.007
			A0149854	ASSAY	TB19203727	294.00	295.00	1.00	0.001	0.003	0.002	0.013	0.017	0.005
			A0149855	ASSAY	TB19203727	295.00	296.00	1.00	0.001	0.003	0.004	0.011	0.016	0.005
			A0149856	ASSAY	TB19203727	296.00	297.00	1.00	0.001	0.003	0.002	0.013	0.014	0.005
			A0149858	ASSAY	TB19203727	297.00	298.00	1.00	0.001	0.003	0.001	0.012	0.017	0.005
			A0149859	ASSAY	TB19203727	298.00	299.00	1.00	0.001	0.003	0.001	0.013	0.014	0.005
			A0149860	ASSAY	TB19203727	299.00	300.00	1.00	0.002	0.003	0.002	0.012	0.020	0.006
			A0149861	ASSAY	TB19172669	300.00	301.00	1.00	0.005	0.003	0.006	0.021	0.027	0.006
			A0149862	ASSAY	TB19172669	301.00	302.00	1.00	0.001	0.003	0.001	0.013	0.018	0.005
			A0149863	ASSAY	TB19172669	302.00	302.75	0.75	0.001	0.003	0.001	0.013	0.016	0.005
			A0149864	ASSAY	TB19172669	302.75	303.52	0.77	0.001	0.003	0.001	0.013	0.013	0.005
303.52	319.07	**TON** 303.52-319.07: Tonalite gneiss Typical country. rock. Patchy K-alt. Moderate to strong gneissic banding at 45 deg throughout. Tr dis sub/euhedral py	A0149865	ASSAY	TB19172669	303.52	304.25	0.73	0.001	0.003	0.001	0.002	0.003	0.001
			A0149866	ASSAY	TB19172669	304.25	305.00	0.75	0.001	0.003	0.001	0.002	0.000	0.000
			A0149867	ASSAY	TB19172669	305.00	306.00	1.00	0.001	0.003	0.001	0.001	0.001	0.000
			A0149868	ASSAY	TB19172669	306.00	307.00	1.00	0.001	0.003	0.001	0.003	0.001	0.001
			A0149869	ASSAY	TB19172669	307.00	308.00	1.00	0.001	0.003	0.001	0.005	0.002	0.001
			A0149870	ASSAY	TB19172669	308.00	309.00	1.00	0.001	0.003	0.001	0.003	0.005	0.002
			A0149871	ASSAY	TB19172669	309.00	310.00	1.00	0.001	0.003	0.001	0.003	0.003	0.002
			A0149872	ASSAY	TB19172669	310.00	311.00	1.00	0.001	0.003	0.001	0.005	0.001	0.001
			A0149873	ASSAY	TB19172669	311.00	312.00	1.00	0.001	0.003	0.001	0.003	0.002	0.001
			A0149874	ASSAY	TB19172669	312.00	313.00	1.00	0.001	0.003	0.001	0.003	0.002	0.001
			A0149875	ASSAY	TB19172669	313.00	314.00	1.00	0.001	0.003	0.001	0.003	0.001	0.001
319.07	323.69	**DIKE-Mafic** 319.07-323.69: Magnetite-bearing phaneritic mafic dike Dark grey, fine grained to very fine grained. Few <15 cm felsic dikes. Sharp top and bottom contact. 40-150 kappa.												

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
323.69	338.00	**TON**												

323.69-338.00: Tonalite gneiss

Typical country rock. Patchy K-alt. Crosscut by few felsic and mafic dikes

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	305.90	-50.68	UNCSPRNT	O	
5.00	306.21	-50.61	UNCSPRNT	O	
10.00	306.19	-50.64	UNCSPRNT	O	
15.00	306.34	-50.61	UNCSPRNT	O	
20.00	306.32	-50.50	UNCSPRNT	O	
25.00	306.50	-50.43	UNCSPRNT	O	
30.00	306.55	-50.39	UNCSPRNT	O	
35.00	306.50	-50.38	UNCSPRNT	O	
40.00	306.46	-50.38	UNCSPRNT	O	
45.00	306.48	-50.30	UNCSPRNT	O	
50.00	306.42	-50.27	UNCSPRNT	O	
55.00	306.60	-50.19	UNCSPRNT	O	
60.00	306.66	-50.14	UNCSPRNT	O	
65.00	306.76	-50.16	UNCSPRNT	O	
70.00	306.71	-50.19	UNCSPRNT	O	
75.00	306.67	-50.18	UNCSPRNT	O	
80.00	306.84	-50.16	UNCSPRNT	O	
85.00	306.95	-50.12	UNCSPRNT	O	
90.00	307.05	-50.06	UNCSPRNT	O	
95.00	307.08	-50.04	UNCSPRNT	O	
100.00	307.19	-50.03	UNCSPRNT	O	
105.00	307.24	-50.06	UNCSPRNT	O	
110.00	307.33	-50.04	UNCSPRNT	O	
115.00	307.40	-49.98	UNCSPRNT	O	
120.00	307.43	-49.97	UNCSPRNT	O	
125.00	307.45	-50.00	UNCSPRNT	O	
130.00	307.42	-50.04	UNCSPRNT	O	
135.00	307.49	-49.99	UNCSPRNT	O	
140.00	307.58	-50.01	UNCSPRNT	O	
145.00	307.62	-49.95	UNCSPRNT	O	
150.00	307.80	-49.96	UNCSPRNT	O	
155.00	307.61	-50.11	UNCSPRNT	O	
160.00	307.63	-50.10	UNCSPRNT	O	
165.00	307.89	-50.12	UNCSPRNT	O	
170.00	307.75	-50.33	UNCSPRNT	O	
175.00	307.73	-50.40	UNCSPRNT	O	
180.00	307.63	-50.35	UNCSPRNT	O	

185.00	307.59	-50.34	UNCSPRNT	O
190.00	307.70	-50.28	UNCSPRNT	O
195.00	307.68	-50.28	UNCSPRNT	O
200.00	307.80	-50.28	UNCSPRNT	O
205.00	307.87	-50.25	UNCSPRNT	O
210.00	307.99	-50.23	UNCSPRNT	O
215.00	307.95	-50.17	UNCSPRNT	O
220.00	308.04	-50.17	UNCSPRNT	O
225.00	308.09	-50.18	UNCSPRNT	O
230.00	308.12	-50.17	UNCSPRNT	O
235.00	308.17	-50.14	UNCSPRNT	O
240.00	308.23	-50.11	UNCSPRNT	O
245.00	308.30	-50.10	UNCSPRNT	O
250.00	308.44	-50.09	UNCSPRNT	O
255.00	308.43	-50.08	UNCSPRNT	O
260.00	308.49	-50.04	UNCSPRNT	O
265.00	308.56	-50.02	UNCSPRNT	O
270.00	308.67	-50.01	UNCSPRNT	O
275.00	308.60	-49.96	UNCSPRNT	O
280.00	308.74	-49.95	UNCSPRNT	O
285.00	308.76	-49.89	UNCSPRNT	O
290.00	308.67	-49.90	UNCSPRNT	O
295.00	308.84	-49.86	UNCSPRNT	O
300.00	308.92	-49.84	UNCSPRNT	O
305.00	308.93	-49.78	UNCSPRNT	O
310.00	308.97	-49.70	UNCSPRNT	O
315.00	309.04	-49.66	UNCSPRNT	O

Detailed Log Report
Hole Number 19-603

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,453.85	**Length:**	359.00
Location:		**East:**	31,306.74	**Hole Size:**	NQ
Start Date:	May 09, 2019	**Elev:**	514.79	**Hole Type:**	DDH
Completed Date:	May 15, 2019	**Collar Dip:**	-50.51	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	305.67	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,075.87	**Multishot Survey:**	N
Start Log:	May 13, 2019	**East:**	308,658.63	**EOH:**	359.00
End Log:	May 15, 2019	**Elev:**	514.79	**Artesian Cond:**	No
Logged By 1:	Sarah A Ferguson	**Claim:**	253	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	41.00	**OB**												
Drilling through boulders from top of berm														

From	To	Lithology
41.00	67.15	**GAB-Vt** GAB VT fg-mg, mostly mg, wk-mod chl-act alteration of mafic minerals. 25-50% feldspar content. local more noritic interval b/w ~ 51-53m. local micro shears across 5-8cm at 30-45 dtca. 41-49m local coarse blebs of po>py and po>ccp (0.1-0.2%)

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149876	ASSAY	TB19172669	41.00	42.00	1.00	0.110	0.076	0.033	0.036	0.050	0.006
A0149878	ASSAY	TB19172669	42.00	43.00	1.00	0.044	0.035	0.017	0.020	0.038	0.005
A0149879	ASSAY	TB19172669	43.00	44.00	1.00	0.012	0.007	0.012	0.017	0.033	0.005
A0149880	ASSAY	TB19172669	44.00	45.00	1.00	0.098	0.060	0.018	0.023	0.046	0.006
A0149881	ASSAY	TB19172669	45.00	46.00	1.00	0.141	0.070	0.028	0.040	0.050	0.005
A0149882	ASSAY	TB19172669	46.00	47.00	1.00	0.082	0.049	0.017	0.020	0.045	0.006
A0149883	ASSAY	TB19172669	47.00	48.00	1.00	0.120	0.081	0.023	0.027	0.041	0.005
A0149884	ASSAY	TB19172669	48.00	49.00	1.00	0.052	0.051	0.012	0.015	0.034	0.005
A0149885	ASSAY	TB19172669	49.00	50.00	1.00	0.013	0.024	0.018	0.013	0.037	0.006
A0149886	ASSAY	TB19172669	50.00	51.00	1.00	0.013	0.026	0.028	0.013	0.039	0.006
A0149887	ASSAY	TB19172669	51.00	52.00	1.00	0.013	0.024	0.024	0.012	0.039	0.006
A0149888	ASSAY	TB19172669	52.00	53.00	1.00	0.013	0.025	0.026	0.013	0.039	0.006
A0149889	ASSAY	TB19172669	53.00	54.00	1.00	0.013	0.027	0.024	0.012	0.038	0.006
A0149890	ASSAY	TB19172669	54.00	55.00	1.00	0.013	0.025	0.022	0.011	0.036	0.005
A0149891	ASSAY	TB19172669	55.00	56.00	1.00	0.012	0.024	0.024	0.013	0.037	0.006
A0149892	ASSAY	TB19172669	56.00	57.00	1.00	0.012	0.023	0.021	0.012	0.038	0.006
A0149893	ASSAY	TB19172669	57.00	58.00	1.00	0.011	0.024	0.021	0.012	0.037	0.006
A0149894	ASSAY	TB19172669	58.00	59.00	1.00	0.011	0.024	0.020	0.010	0.039	0.006
A0149895	ASSAY	TB19172669	59.00	60.00	1.00	0.012	0.025	0.021	0.012	0.037	0.006
A0149896	ASSAY	TB19172669	60.00	61.00	1.00	0.010	0.023	0.012	0.008	0.038	0.005
A0149898	ASSAY	TB19172669	61.00	62.00	1.00	0.011	0.021	0.019	0.013	0.038	0.006
A0149899	ASSAY	TB19172669	62.00	63.00	1.00	0.011	0.023	0.021	0.013	0.038	0.006
A0149900	ASSAY	TB19172669	63.00	64.00	1.00	0.010	0.028	0.023	0.014	0.038	0.006
A0149901	ASSAY	TB19172669	64.00	65.00	1.00	0.010	0.023	0.020	0.012	0.038	0.005
A0149902	ASSAY	TB19172669	65.00	66.00	1.00	0.010	0.023	0.019	0.011	0.036	0.005
A0149903	ASSAY	TB19172669	66.00	67.15	1.15	0.011	0.024	0.019	0.010	0.032	0.005

From	To	Lithology
67.15	73.90	**DIKE-Mafic**

Mafic dyke
fg, wk-mod pervasive chlorite alt and fracture controlled carbonate atleration
contains carbonate filled amygdules
sharp upper and lower contacts @ 40 and 10dtca.
local trace blebs of po-ccp, and 0.5-1% fg disseminated and fracture filling pyrite.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149904	ASSAY	TB19172669	67.15	68.00	0.85	0.001	0.003	0.003	0.009	0.027	0.005
A0149905	ASSAY	TB19172669	68.00	69.00	1.00	0.001	0.003	0.016	0.059	0.029	0.005
A0149906	ASSAY	TB19172669	69.00	70.00	1.00	0.001	0.003	0.002	0.016	0.027	0.004
A0149907	ASSAY	TB19172669	70.00	71.00	1.00	0.001	0.003	0.001	0.002	0.025	0.004
A0149908	ASSAY	TB19172669	71.00	72.00	1.00	0.001	0.003	0.003	0.014	0.026	0.004
A0149909	ASSAY	TB19172669	72.00	73.00	1.00	0.001	0.003	0.001	0.002	0.027	0.004
A0149910	ASSAY	TB19172669	73.00	73.90	0.90	0.001	0.003	0.001	0.004	0.025	0.004

From	To	Lithology
73.90	102.43	**GAB-Vt**

GAB VT
fg-cg patches, moderate chl-act alteration, local patches of k-alt, na-alt and epidote.
trace fg diss py below 78m, py is scattered throughout but sometimes concentrated in the cg gab patches, local po>ccp coarse blebs in cg gab patches
-localized 5-8cm shear at ~30 dtca.
-102m local narrow fault plane @15dtca with ~10cm displacement of a qtz-carb vein.
foliated towards lower contact with tonalite.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149911	ASSAY	TB19172669	73.90	75.00	1.10	0.007	0.014	0.011	0.011	0.032	0.005
A0149912	ASSAY	TB19172669	75.00	76.00	1.00	0.006	0.013	0.008	0.012	0.032	0.005
A0149913	ASSAY	TB19172669	76.00	77.00	1.00	0.007	0.015	0.007	0.009	0.029	0.004
A0149917	ASSAY	TB19172670	77.00	78.00	1.00	0.001	0.005	0.007	0.011	0.030	0.005
A0149918	ASSAY	TB19172670	78.00	79.00	1.00	0.001	0.003	0.002	0.012	0.028	0.005
A0149919	ASSAY	TB19172670	79.00	80.00	1.00	0.001	0.003	0.001	0.008	0.027	0.004
A0149920	ASSAY	TB19172670	80.00	81.00	1.00	0.001	0.003	0.001	0.008	0.024	0.004
A0149921	ASSAY	TB19172670	81.00	82.00	1.00	0.001	0.003	0.002	0.012	0.024	0.005
A0149922	ASSAY	TB19172670	82.00	83.00	1.00	0.001	0.003	0.001	0.010	0.022	0.004
A0149923	ASSAY	TB19172670	83.00	84.00	1.00	0.001	0.003	0.001	0.011	0.022	0.004
A0149924	ASSAY	TB19172670	84.00	85.00	1.00	0.001	0.003	0.001	0.008	0.024	0.005
A0149925	ASSAY	TB19172670	85.00	86.00	1.00	0.001	0.003	0.002	0.012	0.029	0.005
A0149926	ASSAY	TB19172670	86.00	87.00	1.00	0.001	0.003	0.001	0.015	0.034	0.005
A0149927	ASSAY	TB19172670	87.00	88.00	1.00	0.001	0.003	0.001	0.011	0.026	0.004
A0149928	ASSAY	TB19172670	88.00	89.00	1.00	0.001	0.003	0.002	0.014	0.027	0.005
A0149929	ASSAY	TB19172670	89.00	90.00	1.00	0.001	0.003	0.003	0.011	0.029	0.005
A0149930	ASSAY	TB19172670	90.00	91.00	1.00	0.001	0.003	0.003	0.012	0.028	0.005
A0149931	ASSAY	TB19172670	91.00	92.00	1.00	0.001	0.003	0.001	0.009	0.029	0.005
A0149932	ASSAY	TB19172670	92.00	93.00	1.00	0.001	0.003	0.001	0.011	0.031	0.005
A0149933	ASSAY	TB19172670	93.00	94.00	1.00	0.001	0.003	0.001	0.017	0.024	0.005
A0149934	ASSAY	TB19172670	94.00	95.00	1.00	0.001	0.003	0.001	0.021	0.027	0.005
A0149936	ASSAY	TB19172670	95.00	96.00	1.00	0.001	0.003	0.001	0.017	0.022	0.005
A0149937	ASSAY	TB19172670	96.00	97.00	1.00	0.001	0.003	0.001	0.019	0.025	0.006
A0149938	ASSAY	TB19172670	97.00	98.00	1.00	0.001	0.003	0.001	0.017	0.021	0.006
A0149939	ASSAY	TB19172670	98.00	99.00	1.00	0.001	0.003	0.001	0.015	0.021	0.006
A0149940	ASSAY	TB19172670	99.00	100.00	1.00	0.001	0.003	0.001	0.010	0.016	0.005
A0149941	ASSAY	TB19172670	100.00	101.00	1.00	0.001	0.003	0.001	0.009	0.018	0.005
A0149942	ASSAY	TB19172670	101.00	101.75	0.75	0.001	0.003	0.001	0.009	0.016	0.005
A0149943	ASSAY	TB19172670	101.75	102.43	0.68	0.001	0.003	0.001	0.004	0.013	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
102.43	247.00	**TON** gneissic tonalite MOD-STRONGLY FOLIated throughout with variable orientation, local folding. vAriable alteration, wk chlorite throughout, local biotite alt (in addition to what appears to be primary biotite), local silica flooding and k-alteration and epidote alteraiton and sodic alteration. medium-coarse grained, trace to 0.5% fg disseminaed and local fracture filling pyrite throughout, 2% pyrite b/w 118-119m as veins parallel to fault plane (fracture with displacement), coarse blebs and disseminations. moderately magnetic throughout with patchy intercumulus magnetite. locally cross cut by mafic dykes+/-magnetic 20-45% quartz, 5-50% mafics, 15-60% feldspar.	A0149944	ASSAY	TB19172670	102.43	103.25	0.82	0.001	0.003	0.001	0.002	0.002	0.001
			A0149945	ASSAY	TB19172670	103.25	104.00	0.75	0.001	0.003	0.001	0.001	0.000	0.001
			A0149946	ASSAY	TB19172670	104.00	105.00	1.00	0.001	0.003	0.001	0.003	0.002	0.001
			A0149947	ASSAY	TB19172670	105.00	106.00	1.00	0.001	0.003	0.001	0.003	0.003	0.001
			A0149948	ASSAY	TB19172670	106.00	107.00	1.00	0.001	0.003	0.001	0.002	0.002	0.001
			A0149949	ASSAY	TB19172670	107.00	108.00	1.00	0.001	0.003	0.001	0.003	0.002	0.001
			A0149950	ASSAY	TB19172670	108.00	109.00	1.00	0.001	0.003	0.001	0.003	0.001	0.001
			A0149951	ASSAY	TB19172670	109.00	110.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
			A0149952	ASSAY	TB19172670	110.00	111.00	1.00	0.001	0.003	0.001	0.001	0.002	0.001
			A0149953	ASSAY	TB19172670	111.00	112.00	1.00	0.001	0.003	0.001	0.002	0.002	0.001
			A0149954	ASSAY	TB19172670	112.00	113.00	1.00	0.001	0.003	0.001	0.005	0.002	0.001
			A0149956	ASSAY	TB19172670	113.00	114.00	1.00	0.001	0.003	0.001	0.004	0.002	0.001
			A0149957	ASSAY	TB19172670	114.00	115.00	1.00	0.001	0.003	0.001	0.002	0.010	0.002
			A0149958	ASSAY	TB19172670	115.00	116.00	1.00	0.001	0.003	0.001	0.002	0.002	0.001
			A0149959	ASSAY	TB19172670	116.00	117.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
			A0149960	ASSAY	TB19172670	117.00	118.00	1.00	0.009	0.007	0.001	0.004	0.009	0.003
			A0149961	ASSAY	TB19172670	118.00	119.00	1.00	0.004	0.003	0.001	0.010	0.007	0.003
			A0149962	ASSAY	TB19172670	119.00	120.00	1.00	0.001	0.003	0.001	0.005	0.003	0.001
			A0149963	ASSAY	TB19172670	120.00	121.00	1.00	0.001	0.003	0.001	0.006	0.005	0.002
			A0149964	ASSAY	TB19172670	121.00	122.00	1.00	0.001	0.003	0.001	0.005	0.007	0.002
			A0149965	ASSAY	TB19172670	122.00	123.00	1.00	0.001	0.003	0.001	0.003	0.004	0.001
			A0149966	ASSAY	TB19172670	123.00	124.00	1.00	0.001	0.003	0.001	0.003	0.002	0.001
			A0149967	ASSAY	TB19172670	124.00	125.00	1.00	0.001	0.003	0.001	0.000	0.001	0.001
			A0149968	ASSAY	TB19172670	125.00	126.00	1.00	0.001	0.003	0.001	0.004	0.004	0.003
			A0149969	ASSAY	TB19172670	126.00	127.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
247.00	253.52	**DIKE-Intermediate** Intermediate dyke Grey in colour, fine grained, contains minor feldspar phenocrysts and fine amphibole needles and local quartz eyes. sharp contacts with chilled margins. K and epidote alteration at top of dike and as halos along fractures.												

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
253.52	256.98	**TON** gneissic tonalite alternating bands of albite rich wtih chlorite-biotite altered. local quartz flooding 0.2-0.4% disseminaed and fracture controlled pyrite.												
256.98	258.25	**DIKE-Mafic** Magnetite Mafic dyke sharp contacts, upper wavey at 50dtca, lower at 45 dtca. mod-str chl-bt alteration. local epidote patch adn fracture controlled carbonate. strongly magnetic, 0.5% intercumulus magnetite, 0.2-0.4% diss and ff pyrite.												
258.25	359.00	**TON** gneissic tonalite MOD-STRONGLY FOLIated throughout with variable orientation, local folding. vAriable alteration, wk chlorite throughout, local biotite alt (in addition to what appears to be primary biotite), local silica flooding and k-alteration and epidote alteraiton and sodic alteration. medium-coarse grained, moderately magnetic throughout with patchy intercumulus magnetite, becoming less magnetic below ~320m. locally cross cut by mafic dykes 20-45% quartz, 5-50% mafics, 15-60% feldspar. trace to 0.4% disseminated and fracture filling pyrite down to ~ 286 m, blebby pyrite in quartz veins and joints @ 25-30dtca below 325m.												

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	305.76	-49.99	UNCSPRNT	O	
5.00	306.53	-49.34	UNCSPRNT	O	
10.00	306.78	-49.18	UNCSPRNT	O	
15.00	306.78	-49.06	UNCSPRNT	O	
20.00	306.79	-48.71	UNCSPRNT	O	
25.00	306.33	-48.97	UNCSPRNT	O	
30.00	305.97	-48.66	UNCSPRNT	O	
35.00	305.54	-48.78	UNCSPRNT	O	
40.00	305.57	-48.89	UNCSPRNT	O	
45.00	305.61	-48.93	UNCSPRNT	O	
50.00	305.64	-48.96	UNCSPRNT	O	
55.00	305.57	-49.01	UNCSPRNT	O	
60.00	305.59	-49.04	UNCSPRNT	O	
65.00	305.60	-49.08	UNCSPRNT	O	
70.00	305.58	-49.07	UNCSPRNT	O	
75.00	305.55	-49.07	UNCSPRNT	O	
80.00	305.60	-49.08	UNCSPRNT	O	
85.00	305.69	-49.10	UNCSPRNT	O	
90.00	305.74	-49.11	UNCSPRNT	O	
95.00	305.69	-49.15	UNCSPRNT	O	
100.00	305.78	-49.12	UNCSPRNT	O	
105.00	305.86	-49.08	UNCSPRNT	O	
110.00	305.83	-49.04	UNCSPRNT	O	
115.00	305.90	-48.96	UNCSPRNT	O	
120.00	305.90	-48.90	UNCSPRNT	O	
125.00	305.86	-48.87	UNCSPRNT	O	
130.00	305.84	-48.93	UNCSPRNT	O	
135.00	305.79	-48.89	UNCSPRNT	O	
140.00	305.80	-48.89	UNCSPRNT	O	
145.00	305.82	-48.84	UNCSPRNT	O	
150.00	305.75	-48.78	UNCSPRNT	O	
155.00	305.75	-48.73	UNCSPRNT	O	
160.00	305.77	-48.68	UNCSPRNT	O	
165.00	305.76	-48.60	UNCSPRNT	O	
170.00	305.83	-48.59	UNCSPRNT	O	
175.00	305.86	-48.48	UNCSPRNT	O	
180.00	305.86	-48.45	UNCSPRNT	O	

185.00	305.95	-48.41	UNCSPRNT	O
190.00	306.01	-48.28	UNCSPRNT	O
195.00	306.07	-48.21	UNCSPRNT	O
200.00	306.08	-48.10	UNCSPRNT	O
205.00	306.12	-48.01	UNCSPRNT	O
210.00	306.22	-47.93	UNCSPRNT	O
215.00	306.22	-47.94	UNCSPRNT	O
220.00	306.19	-47.92	UNCSPRNT	O
225.00	306.25	-47.90	UNCSPRNT	O
230.00	306.26	-47.87	UNCSPRNT	O
235.00	306.29	-47.80	UNCSPRNT	O
240.00	306.20	-47.76	UNCSPRNT	O
245.00	306.29	-47.75	UNCSPRNT	O
250.00	306.24	-47.73	UNCSPRNT	O
255.00	306.42	-47.67	UNCSPRNT	O
260.00	306.35	-47.63	UNCSPRNT	O
265.00	306.36	-47.54	UNCSPRNT	O
270.00	306.36	-47.49	UNCSPRNT	O
275.00	306.46	-47.42	UNCSPRNT	O
280.00	306.51	-47.42	UNCSPRNT	O
285.00	306.42	-47.39	UNCSPRNT	O
290.00	306.55	-47.41	UNCSPRNT	O
295.00	306.40	-47.43	UNCSPRNT	O
300.00	306.57	-47.34	UNCSPRNT	O
305.00	306.52	-47.28	UNCSPRNT	O
310.00	306.54	-47.25	UNCSPRNT	O
315.00	306.52	-47.19	UNCSPRNT	O
320.00	306.62	-47.10	UNCSPRNT	O
325.00	306.52	-47.07	UNCSPRNT	O
330.00	306.60	-47.03	UNCSPRNT	O
335.00	306.62	-46.97	UNCSPRNT	O
340.00	306.62	-46.90	UNCSPRNT	O

Detailed Log Report
Hole Number 19-604

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,208.85	**Length:**	222.30
Location:		**East:**	31,195.19	**Hole Size:**	NQ
Start Date:	May 15, 2019	**Elev:**	512.71	**Hole Type:**	DDH
Completed Date:	May 19, 2019	**Collar Dip:**	-50.70	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	304.59	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,448,834.28	**Multishot Survey:**	N
Start Log:	May 16, 2019	**East:**	308,539.86	**EOH:**	222.30
End Log:	May 19, 2019	**Elev:**	512.71	**Artesian Cond:**	No
Logged By 1:	Sarah A Ferguson	**Claim:**	253	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Comments: Planned coordinates were used instead of total station for collar location; surveying error resulted in base station location being recorded as collar location. Collar were sited in originally with RTK GPS.

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	18.48	**OB**												
Overburden. organics and large boulders from berm														
18.48	36.40	**DIKE-Mafic**	A0149970	ASSAY	TB19172670	35.00	36.40	1.40	0.021	0.003	0.008	0.024	0.013	0.005
Diabase Sill fg, massive, brownish, moderately magnetic, sharp lower contact with chilled margin. trace po-ccp filling local fracture (not included in structure tab as "dyke", just the lower contact put in)														

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
36.40	39.73	**GAB-Vt** GABVT Short interval of GABVT that grades into NORVT. (possibly just sodic alteration close to contact making more feldspar-rich), 10-40% feldspar. mg-cg, wk-mod chl-act alteration trace local blebs of ccp>po	A0149971	ASSAY	TB19172670	36.40	37.50	1.10	0.003	0.003	0.012	0.015	0.027	0.005
			A0149972	ASSAY	TB19172670	37.50	38.50	1.00	0.003	0.005	0.013	0.015	0.027	0.005
			A0149973	ASSAY	TB19172670	38.50	39.73	1.23	0.002	0.006	0.011	0.014	0.028	0.005
39.73	52.46	**NOR-Vt** NOR VT weakly chl-ct altered (locally moderate, mg to locally cg, mostly brown mg norite wtih local short intervals of cg more gabbroic material. mostly ~10% felspar, locally up to 30% gradational upper contact, abrupt and distinct lower contact to gabbro 0.5% fine to coarse po-ccp blebs from 42.5-47m	A0149974	ASSAY	TB19172670	39.73	41.00	1.27	0.003	0.005	0.008	0.016	0.028	0.005
			A0149976	ASSAY	TB19172670	41.00	42.00	1.00	0.007	0.007	0.007	0.027	0.035	0.005
			A0149977	ASSAY	TB19172670	42.00	43.00	1.00	0.004	0.003	0.004	0.023	0.028	0.005
			A0149978	ASSAY	TB19172670	43.00	44.00	1.00	0.015	0.015	0.010	0.033	0.029	0.005
			A0149979	ASSAY	TB19172670	44.00	45.00	1.00	0.014	0.018	0.005	0.017	0.023	0.005
			A0149980	ASSAY	TB19172670	45.00	46.00	1.00	0.011	0.013	0.010	0.032	0.033	0.005
			A0149981	ASSAY	TB19172670	46.00	47.00	1.00	0.016	0.016	0.015	0.045	0.037	0.005
			A0149982	ASSAY	TB19172670	47.00	48.00	1.00	0.006	0.005	0.006	0.028	0.024	0.004
			A0149983	ASSAY	TB19172670	48.00	49.00	1.00	0.001	0.003	0.001	0.015	0.019	0.004
			A0149984	ASSAY	TB19172670	49.00	50.00	1.00	0.005	0.003	0.002	0.017	0.022	0.005
			A0149985	ASSAY	TB19172670	50.00	50.75	0.75	0.003	0.003	0.001	0.012	0.020	0.004
			A0149986	ASSAY	TB19172670	50.75	51.50	0.75	0.004	0.003	0.001	0.015	0.022	0.005
			A0149987	ASSAY	TB19172670	51.50	52.46	0.96	0.008	0.009	0.006	0.024	0.028	0.005

From	To	Lithology
52.46	105.15	**GAB-Vt**

GABVT
mg-cg, mostly moderately chl-act altered, wk epidote and potassic alteration below 84m. local short norite intervals, mineralization in both mg and cg material, but coarser blebs in coarser grained rock. 20-50% feldspar. local short intermittent weakly sheared intervals below 84m.
trace blebby po-ccp-py to 67m; 0.5% blebby po-ccp from 67-84.5m including ~2m of 1% (72-74.5m); 0.3-0.5% blebby po-ccp-py +0.2% local coarse blebs of magnetite from 94.5-97.5 m.
Lower contact interfingered with tonalite country rock beginning at 103 m. also begins to be foliated towards lower contact below 103m.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0149988	ASSAY	TB19172670	52.46	53.25	0.79	0.001	0.003	0.006	0.023	0.030	0.005
A0149989	ASSAY	TB19172670	53.25	54.00	0.75	0.017	0.031	0.010	0.012	0.029	0.004
A0149990	ASSAY	TB19172670	54.00	55.00	1.00	0.020	0.021	0.009	0.011	0.027	0.005
A0149991	ASSAY	TB19172670	55.00	56.00	1.00	0.096	0.086	0.014	0.016	0.034	0.004
A0149995	ASSAY	TB19172671	56.00	57.00	1.00	0.015	0.032	0.011	0.015	0.039	0.005
A0149996	ASSAY	TB19172671	57.00	58.00	1.00	0.005	0.013	0.007	0.014	0.037	0.005
A0149997	ASSAY	TB19172671	58.00	59.00	1.00	0.002	0.005	0.009	0.016	0.035	0.005
A0149998	ASSAY	TB19172671	59.00	60.00	1.00	0.002	0.005	0.011	0.020	0.044	0.006
A0149999	ASSAY	TB19172671	60.00	61.00	1.00	0.001	0.005	0.019	0.016	0.036	0.005
A0150000	ASSAY	TB19172671	61.00	62.00	1.00	0.002	0.007	0.012	0.017	0.031	0.005
A0130001	ASSAY	TB19172671	62.00	63.00	1.00	0.072	0.061	0.017	0.020	0.032	0.004
A0130002	ASSAY	TB19172671	63.00	64.00	1.00	0.134	0.123	0.032	0.028	0.042	0.004
A0130003	ASSAY	TB19172671	64.00	65.00	1.00	0.006	0.020	0.037	0.039	0.048	0.005
A0130004	ASSAY	TB19172671	65.00	66.00	1.00	0.004	0.008	0.007	0.013	0.029	0.004
A0130005	ASSAY	TB19172671	66.00	67.00	1.00	0.011	0.015	0.015	0.017	0.034	0.005
A0130006	ASSAY	TB19172671	67.00	68.00	1.00	0.005	0.008	0.011	0.019	0.033	0.005
A0130007	ASSAY	TB19172671	68.00	69.00	1.00	0.006	0.007	0.015	0.024	0.033	0.005
A0130008	ASSAY	TB19172671	69.00	70.00	1.00	0.004	0.005	0.015	0.023	0.030	0.005
A0130009	ASSAY	TB19172671	70.00	71.00	1.00	0.084	0.054	0.026	0.032	0.040	0.005
A0130010	ASSAY	TB19172671	71.00	72.00	1.00	0.057	0.037	0.044	0.062	0.059	0.005
A0130011	ASSAY	TB19172671	72.00	73.00	1.00	0.044	0.048	0.067	0.124	0.107	0.007
A0130012	ASSAY	TB19172671	73.00	74.00	1.00	0.042	0.036	0.054	0.067	0.051	0.005
A0130014	ASSAY	TB19172671	74.00	75.00	1.00	0.041	0.032	0.021	0.032	0.041	0.004
A0130015	ASSAY	TB19172671	75.00	76.00	1.00	0.019	0.022	0.036	0.065	0.070	0.006
A0130016	ASSAY	TB19172671	76.00	77.00	1.00	0.006	0.009	0.004	0.014	0.024	0.005
A0130017	ASSAY	TB19172671	77.00	78.00	1.00	0.008	0.005	0.025	0.051	0.039	0.005
A0130018	ASSAY	TB19172671	78.00	79.00	1.00	0.008	0.008	0.012	0.035	0.030	0.005
A0130019	ASSAY	TB19172671	79.00	80.00	1.00	0.002	0.003	0.004	0.021	0.025	0.005
A0130020	ASSAY	TB19172671	80.00	81.00	1.00	0.006	0.003	0.008	0.030	0.031	0.005
A0130021	ASSAY	TB19172671	81.00	82.00	1.00	0.001	0.003	0.001	0.008	0.026	0.005
A0130022	ASSAY	TB19172671	82.00	83.00	1.00	0.014	0.016	0.014	0.040	0.039	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130023	ASSAY	TB19172671	83.00	84.00	1.00	0.002	0.003	0.002	0.016	0.024	0.005
			A0130024	ASSAY	TB19172671	84.00	85.00	1.00	0.001	0.003	0.001	0.008	0.020	0.004
			A0130025	ASSAY	TB19172671	85.00	86.00	1.00	0.001	0.003	0.005	0.017	0.021	0.004
			A0130026	ASSAY	TB19172671	86.00	87.00	1.00	0.005	0.006	0.008	0.012	0.022	0.004
			A0130027	ASSAY	TB19172671	87.00	88.00	1.00	0.003	0.003	0.001	0.011	0.022	0.004
			A0130028	ASSAY	TB19172671	88.00	89.00	1.00	0.026	0.035	0.003	0.011	0.023	0.004
			A0130029	ASSAY	TB19172671	89.00	90.00	1.00	0.014	0.028	0.009	0.009	0.025	0.005
			A0130030	ASSAY	TB19172671	90.00	91.00	1.00	0.008	0.015	0.011	0.012	0.024	0.004
			A0130031	ASSAY	TB19172671	91.00	92.00	1.00	0.003	0.005	0.007	0.010	0.024	0.004
			A0130032	ASSAY	TB19172671	92.00	93.00	1.00	0.003	0.005	0.009	0.013	0.023	0.005
			A0130034	ASSAY	TB19172671	93.00	94.00	1.00	0.002	0.003	0.007	0.014	0.026	0.005
			A0130035	ASSAY	TB19172671	94.00	95.00	1.00	0.004	0.007	0.013	0.025	0.037	0.006
			A0130036	ASSAY	TB19172671	95.00	96.00	1.00	0.001	0.003	0.007	0.027	0.037	0.005
			A0130037	ASSAY	TB19172671	96.00	97.00	1.00	0.007	0.009	0.008	0.029	0.042	0.006
			A0130038	ASSAY	TB19172671	97.00	98.00	1.00	0.001	0.003	0.004	0.017	0.026	0.005
			A0130039	ASSAY	TB19172671	98.00	99.00	1.00	0.003	0.005	0.002	0.017	0.022	0.004
			A0130040	ASSAY	TB19172671	99.00	100.00	1.00	0.001	0.003	0.001	0.014	0.017	0.005
			A0130041	ASSAY	TB19172671	100.00	101.00	1.00	0.001	0.003	0.001	0.022	0.018	0.005
			A0130042	ASSAY	TB19172671	101.00	102.00	1.00	0.001	0.003	0.001	0.015	0.015	0.005
			A0130043	ASSAY	TB19172671	102.00	103.00	1.00	0.001	0.003	0.001	0.004	0.012	0.004
			A0130044	ASSAY	TB19172671	103.00	104.00	1.00	0.001	0.003	0.001	0.014	0.005	0.002
			A0130045	ASSAY	TB19172671	104.00	105.15	1.15	0.001	0.003	0.001	0.004	0.003	0.001

Hole Number: **19-604**

Units: **METRIC**

From	To	Lithology
105.15	222.30	**TON** Tonalite/Qtz Diorite sharp upper contact wtih GAB (interfingered above for a couple meters), magnetic at top becoming only weakly magnetic below ~170m Variable composition and grain size, massive to strongly foliated. mg to locally cg and fg. mostly 25-35% qtz, 25% mafics, 35-50% feldspar (but varies to as little as 5% qtz). weak chlorite, potassic, and epidote alteration throughout, and local biotite alteration (in addition to primary biotite). Becomes moderately to strongly chlorite+/-biotite altered below 194.6m with local more dioritic intervals and becomes more massive overall. -below 208m fault planes/joints @ 20-35dtca with cm scale displacement with drag folds adn truncating foliation. also a 5-15dtca weak shear zone with subparallel fault plane with slickenlines b/w214-216m pyrite filled fractures at 30 dtca for first couple metres and trace disseminated py b/w 107-108m. trace - 0.5% fracture filling and disseminated pyrite between 180.75 and 194.6m . 214-221m trace-0.5% pyrite-disseminated, fracture filling and within quartz veins.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130046	ASSAY	TB19172671	105.15	106.00	0.85	0.001	0.003	0.001	0.001	0.000	0.000
A0130047	ASSAY	TB19172671	106.00	107.00	1.00	0.001	0.003	0.001	0.002	0.000	0.000
A0130048	ASSAY	TB19172671	107.00	108.00	1.00	0.001	0.003	0.001	0.003	0.004	0.002
A0130049	ASSAY	TB19172671	108.00	109.00	1.00	0.001	0.003	0.001	0.003	0.004	0.002
A0130050	ASSAY	TB19172671	109.00	110.00	1.00	0.001	0.003	0.001	0.001	0.004	0.002
A0130051	ASSAY	TB19172671	110.00	111.00	1.00	0.001	0.003	0.001	0.002	0.004	0.002
A0130052	ASSAY	TB19172671	111.00	112.00	1.00	0.001	0.003	0.001	0.002	0.004	0.002
A0130054	ASSAY	TB19172671	112.00	113.00	1.00	0.001	0.003	0.001	0.003	0.005	0.002
A0130055	ASSAY	TB19172671	113.00	114.00	1.00	0.001	0.003	0.001	0.001	0.002	0.002
A0130056	ASSAY	TB19172671	114.00	115.00	1.00	0.001	0.003	0.001	0.007	0.002	0.002
A0130057	ASSAY	TB19172671	115.00	116.00	1.00	0.001	0.003	0.001	0.003	0.003	0.002
A0130058	ASSAY	TB19172671	116.00	117.00	1.00	0.001	0.003	0.001	0.004	0.002	0.002
A0130059	ASSAY	TB19172671	117.00	118.00	1.00	0.001	0.003	0.001	0.007	0.007	0.003
A0130060	ASSAY	TB19172671	118.00	119.00	1.00	0.001	0.003	0.001	0.002	0.003	0.002

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	304.51	-50.71	UNCSPRNT	O	
5.00	304.94	-51.21	UNCSPRNT	O	
10.00	304.91	-50.96	UNCSPRNT	O	
15.00	304.91	-50.67	UNCSPRNT	O	
20.00	305.02	-50.66	UNCSPRNT	O	
25.00	304.97	-50.71	UNCSPRNT	O	
30.00	305.04	-50.72	UNCSPRNT	O	
35.00	305.05	-50.67	UNCSPRNT	O	
40.00	305.04	-50.67	UNCSPRNT	O	
45.00	305.07	-50.65	UNCSPRNT	O	
50.00	305.11	-50.67	UNCSPRNT	O	
55.00	305.13	-50.66	UNCSPRNT	O	
60.00	305.18	-50.64	UNCSPRNT	O	
65.00	305.22	-50.66	UNCSPRNT	O	
70.00	305.41	-50.66	UNCSPRNT	O	
75.00	305.43	-50.67	UNCSPRNT	O	
80.00	305.37	-50.63	UNCSPRNT	O	
85.00	305.39	-50.61	UNCSPRNT	O	
90.00	305.45	-50.62	UNCSPRNT	O	
95.00	305.54	-50.61	UNCSPRNT	O	
100.00	305.63	-50.60	UNCSPRNT	O	
105.00	305.54	-50.60	UNCSPRNT	O	
110.00	305.68	-50.56	UNCSPRNT	O	
115.00	305.65	-50.53	UNCSPRNT	O	
120.00	305.63	-50.51	UNCSPRNT	O	
125.00	305.67	-50.48	UNCSPRNT	O	
130.00	305.67	-50.42	UNCSPRNT	O	
135.00	305.68	-50.38	UNCSPRNT	O	
140.00	305.71	-50.30	UNCSPRNT	O	
145.00	305.74	-50.26	UNCSPRNT	O	
150.00	305.74	-50.15	UNCSPRNT	O	
155.00	305.90	-50.07	UNCSPRNT	O	
160.00	305.86	-49.96	UNCSPRNT	O	
165.00	305.94	-49.91	UNCSPRNT	O	
170.00	305.90	-49.89	UNCSPRNT	O	

Detailed Log Report
Hole Number 19-605

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,103.84	**Length:**	326.00
Location:		**East:**	31,302.48	**Hole Size:**	NQ
Start Date:	May 19, 2019	**Elev:**	517.63	**Hole Type:**	DDH
Completed Date:	May 22, 2019	**Collar Dip:**	-50.28	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	305.69	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,448,726.13	**Multishot Survey:**	N
Start Log:	May 19, 2019	**East:**	308,643.99	**EOH:**	326.00
End Log:	May 23, 2019	**Elev:**	517.63	**Artesian Cond:**	No
Logged By 1:	Brigitte Gelinas	**Claim:**	253	**Abandon Reason:**	
				Plugged:	N
				Pulse EM Survey:	N

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	33.77	**OB**												
0 - 33.77m / Overburden Mainly composed of GAB VT clasts														
33.77	35.00	**DIKE-Mafic**												
33.77 - 35.00m / DIABASE Black, fine-grained, magnetic, massive diabase. Upper and lower contact are broken up.														

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
35.00	53.28	**TON**												

35.00 - 53.28m / TON
Pink/black, medium-grained, foliated tonalite.
60% feldspar, 40% mafic mins (py + bt)
Weak potassic alt on feldspars. Rare epidote stringers
Diffused but distinct lower contact with VT GAB.

From	To	Lithology
53.28	84.95	**GAB-Vt**

53.28 - 84.95m / GAB VT
Green, medium- to coarse-grained, massive, varitextured gabbro.
30% feldspar, 70% altered pyroxene.
Moderate chl-act pervasive alt.
0.2% disseminated to rarely blebby Py>Po>Cpy from 68.75-70.6m.
0.5% med-crs blebby to interstitial disseminated Po>Cpy +/- Py from 75.5-85.08m. Local semi-net texture patches in short fine-grained intervals.
Local qtz-carb-py vein at 69.6 (7cm thick).
Diffused but distinct lower contact with norite, also marks an increase in sulphide concentration.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130061	ASSAY	TB19127087	53.28	54.00	0.72	0.001	0.003	0.001	0.009	0.008	0.004
A0130062	ASSAY	TB19127087	54.00	55.00	1.00	0.001	0.003	0.001	0.010	0.010	0.004
A0130063	ASSAY	TB19127087	55.00	56.00	1.00	0.001	0.003	0.003	0.013	0.017	0.005
A0130064	ASSAY	TB19127087	56.00	57.00	1.00	0.001	0.003	0.001	0.013	0.022	0.006
A0130065	ASSAY	TB19127087	57.00	58.00	1.00	0.003	0.003	0.006	0.013	0.030	0.005
A0130066	ASSAY	TB19127087	58.00	59.00	1.00	0.013	0.014	0.018	0.018	0.029	0.005
A0130067	ASSAY	TB19127087	59.00	60.00	1.00	0.001	0.003	0.006	0.012	0.026	0.005
A0130068	ASSAY	TB19127087	60.00	61.00	1.00	0.001	0.003	0.005	0.010	0.027	0.005
A0130069	ASSAY	TB19127087	61.00	62.00	1.00	0.002	0.003	0.007	0.012	0.029	0.005
A0130073	ASSAY	TB19127086	62.00	63.00	1.00	0.005	0.005	0.008	0.012	0.029	0.005
A0130074	ASSAY	TB19127086	63.00	64.00	1.00	0.010	0.008	0.008	0.010	0.028	0.005
A0130075	ASSAY	TB19127086	64.00	65.00	1.00	0.017	0.016	0.011	0.011	0.027	0.005
A0130076	ASSAY	TB19127086	65.00	66.00	1.00	0.018	0.017	0.012	0.012	0.027	0.005
A0130077	ASSAY	TB19127086	66.00	67.00	1.00	0.014	0.012	0.012	0.011	0.028	0.005
A0130078	ASSAY	TB19127086	67.00	68.00	1.00	0.014	0.011	0.013	0.012	0.027	0.005
A0130079	ASSAY	TB19127086	68.00	69.00	1.00	0.009	0.010	0.015	0.020	0.027	0.005
A0130080	ASSAY	TB19127086	69.00	70.00	1.00	0.012	0.005	0.020	0.058	0.026	0.005
A0130081	ASSAY	TB19127086	70.00	71.00	1.00	0.013	0.015	0.014	0.025	0.032	0.005
A0130082	ASSAY	TB19127086	71.00	72.00	1.00	0.001	0.003	0.015	0.012	0.031	0.005
A0130083	ASSAY	TB19127086	72.00	73.00	1.00	0.003	0.003	0.007	0.007	0.028	0.004
A0130084	ASSAY	TB19127086	73.00	74.00	1.00	0.015	0.017	0.011	0.009	0.028	0.005
A0130085	ASSAY	TB19127086	74.00	75.00	1.00	0.004	0.007	0.007	0.012	0.028	0.005
A0130086	ASSAY	TB19127086	75.00	76.00	1.00	0.093	0.055	0.069	0.059	0.067	0.005
A0130087	ASSAY	TB19127086	76.00	77.00	1.00	0.044	0.042	0.033	0.050	0.053	0.005
A0130088	ASSAY	TB19127086	77.00	78.00	1.00	0.017	0.020	0.018	0.030	0.047	0.005
A0130089	ASSAY	TB19127086	78.00	79.00	1.00	0.020	0.022	0.037	0.043	0.054	0.005
A0130090	ASSAY	TB19127086	79.00	80.00	1.00	0.039	0.042	0.036	0.050	0.074	0.006
A0130092	ASSAY	TB19127086	80.00	81.00	1.00	0.012	0.011	0.010	0.014	0.036	0.005
A0130093	ASSAY	TB19127086	81.00	82.00	1.00	0.042	0.029	0.026	0.030	0.046	0.005
A0130094	ASSAY	TB19127086	82.00	83.00	1.00	0.030	0.024	0.041	0.061	0.062	0.006
A0130095	ASSAY	TB19127086	83.00	84.00	1.00	0.032	0.040	0.023	0.054	0.057	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130096	ASSAY	TB19127086	84.00	84.95	0.95	0.097	0.078	0.049	0.090	0.068	0.005
84.95	94.36	**NOR** 84.95 - 94.36m / NOR Dark purple, weak to moderately altered, massive norite. 10-20% feldspar, 80-90% purple pyroxene. Local interval of GAB VT, in which sulphides continue within. Weak to moderate pervasive chl-act alt. Mineralization consist of 0.5-1% Po>Cpy as blebby to interstitial medium- to coarse-grained from 85.08-103m. 1% interval from 85-90m. Local occurences of semi-net texture. Within the mineralized interval, local section host only 0.2% sulphides whereas other sections (<20cm) host up to 5% sulphides. Lower contact is marked by a higher abundance of GAB VT vs NOR in the interval.	A0130097	ASSAY	TB19127086	84.95	86.00	1.05	0.029	0.052	0.124	0.275	0.148	0.009
			A0130098	ASSAY	TB19127086	86.00	87.00	1.00	0.024	0.040	0.109	0.226	0.132	0.009
			A0130099	ASSAY	TB19127086	87.00	88.00	1.00	0.016	0.034	0.092	0.175	0.111	0.009
			A0130100	ASSAY	TB19127086	88.00	89.00	1.00	0.018	0.030	0.051	0.083	0.063	0.007
			A0130101	ASSAY	TB19127086	89.00	90.00	1.00	0.032	0.042	0.093	0.146	0.102	0.007
			A0130102	ASSAY	TB19127086	90.00	91.00	1.00	0.011	0.017	0.033	0.051	0.046	0.006
			A0130103	ASSAY	TB19127086	91.00	92.00	1.00	0.003	0.009	0.013	0.034	0.032	0.006
			A0130104	ASSAY	TB19127086	92.00	93.00	1.00	0.004	0.005	0.011	0.036	0.035	0.007
			A0130105	ASSAY	TB19127086	93.00	93.70	0.70	0.003	0.003	0.013	0.040	0.039	0.007
			A0130106	ASSAY	TB19127086	93.70	94.36	0.66	0.003	0.003	0.004	0.019	0.022	0.006
94.36	96.00	**GAB-Vt** 94.36 - 96.00m / GAB VT Dark green and white, medium- to coarse-grained, massive, varitexture gabbro. 20-40% feldspar, 60-80% altered pyroxene. Moderate pervasive chl-act alt. 0.5-1% medium- to coarse-grained blebby to interstitial, rarely semi-net Po>Cpy +/-Py.	A0130107	ASSAY	TB19127086	94.36	95.00	0.64	0.011	0.017	0.033	0.074	0.060	0.007
			A0130108	ASSAY	TB19127086	95.00	96.00	1.00	0.016	0.019	0.042	0.103	0.060	0.006

From	To	Lithology
96.00	207.88	**NOR-Vt**

96.00 - 207.88m / Varitexture Norite
Dark purple, medium- to coarse-grained, massive, varitexture norite.
20% feldspar, 80% purple to green pyroxene.
Moderate to strong pervasive chl-act. In strongly altered zones, NOR starts to look like GAB. Local patches of pods of blue quartz beginning at 173.5m to 192.2m.
Min consists of sporadic blebby to disseminated Po>Cpy>Py in trace concentration overall, with local sections reaching 0.3%. Local patchy zones (20cm thick) with up to 1% Po>Cpy.
Lower contact is gradational into GAB VT, also marked by an increase in chl-act alt and decrease in mag sus values. Local qtz-carb veins with associated epidote throughout.
Rare tonalite xenoliths appearing past 191.73m.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130109	ASSAY	TB19127086	96.00	97.00	1.00	0.028	0.051	0.081	0.204	0.126	0.009
A0130110	ASSAY	TB19127086	97.00	98.00	1.00	0.023	0.026	0.049	0.085	0.070	0.007
A0130112	ASSAY	TB19127086	98.00	99.00	1.00	0.076	0.065	0.058	0.082	0.068	0.006
A0130113	ASSAY	TB19127086	99.00	100.00	1.00	0.026	0.028	0.045	0.066	0.058	0.006
A0130114	ASSAY	TB19127086	100.00	101.00	1.00	0.019	0.017	0.038	0.067	0.052	0.006
A0130115	ASSAY	TB19127086	101.00	102.00	1.00	0.085	0.053	0.120	0.225	0.167	0.009
A0130116	ASSAY	TB19127086	102.00	103.00	1.00	0.109	0.084	0.158	0.347	0.230	0.011
A0130117	ASSAY	TB19127086	103.00	104.00	1.00	0.007	0.008	0.017	0.040	0.041	0.006
A0130118	ASSAY	TB19127086	104.00	105.00	1.00	0.002	0.006	0.006	0.013	0.030	0.005
A0130119	ASSAY	TB19127086	105.00	106.00	1.00	0.007	0.008	0.012	0.013	0.031	0.005
A0130120	ASSAY	TB19127086	106.00	107.00	1.00	0.019	0.025	0.028	0.026	0.038	0.005
A0130121	ASSAY	TB19127086	107.00	108.00	1.00	0.007	0.008	0.010	0.020	0.030	0.005
A0130122	ASSAY	TB19127086	108.00	109.00	1.00	0.005	0.003	0.008	0.014	0.031	0.005
A0130123	ASSAY	TB19127086	109.00	110.00	1.00	0.007	0.010	0.008	0.016	0.030	0.005
A0130124	ASSAY	TB19127086	110.00	111.00	1.00	0.015	0.021	0.027	0.022	0.035	0.005
A0130125	ASSAY	TB19127086	111.00	112.00	1.00	0.008	0.010	0.012	0.023	0.036	0.005
A0130126	ASSAY	TB19127086	112.00	113.00	1.00	0.009	0.010	0.024	0.022	0.033	0.005
A0130127	ASSAY	TB19127086	113.00	114.00	1.00	0.007	0.011	0.014	0.018	0.031	0.005
A0130128	ASSAY	TB19127086	114.00	115.00	1.00	0.003	0.007	0.009	0.017	0.030	0.005
A0130129	ASSAY	TB19127086	115.00	116.00	1.00	0.002	0.005	0.011	0.023	0.031	0.005
A0130130	ASSAY	TB19127086	116.00	117.00	1.00	0.005	0.014	0.034	0.050	0.055	0.006
A0130132	ASSAY	TB19127086	117.00	118.00	1.00	0.005	0.018	0.017	0.019	0.033	0.005
A0130133	ASSAY	TB19127086	118.00	119.00	1.00	0.008	0.013	0.018	0.020	0.032	0.005
A0130134	ASSAY	TB19127086	119.00	120.00	1.00	0.007	0.012	0.010	0.017	0.032	0.005
A0130135	ASSAY	TB19127086	120.00	121.00	1.00	0.008	0.009	0.012	0.019	0.031	0.005
A0130136	ASSAY	TB19127086	121.00	122.00	1.00	0.006	0.008	0.011	0.017	0.029	0.005
A0130137	ASSAY	TB19127086	122.00	123.00	1.00	0.025	0.042	0.017	0.021	0.035	0.005
A0130138	ASSAY	TB19127086	123.00	124.00	1.00	0.024	0.048	0.016	0.021	0.032	0.005
A0130139	ASSAY	TB19127086	124.00	125.00	1.00	0.004	0.010	0.008	0.016	0.030	0.005
A0130140	ASSAY	TB19127086	125.00	126.00	1.00	0.002	0.003	0.004	0.012	0.028	0.005
A0130141	ASSAY	TB19127086	126.00	127.00	1.00	0.007	0.009	0.012	0.030	0.039	0.006

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130142	ASSAY	TB19127086	127.00	128.00	1.00	0.008	0.013	0.005	0.012	0.049	0.008
			A0130143	ASSAY	TB19127086	128.00	129.00	1.00	0.008	0.014	0.009	0.014	0.028	0.005
			A0130144	ASSAY	TB19127086	129.00	130.00	1.00	0.001	0.003	0.007	0.013	0.028	0.005
			A0130145	ASSAY	TB19127086	130.00	131.00	1.00	0.011	0.023	0.010	0.017	0.028	0.004
			A0130146	ASSAY	TB19127086	131.00	132.00	1.00	0.011	0.020	0.009	0.018	0.028	0.005
			A0130147	ASSAY	TB19127086	132.00	133.00	1.00	0.001	0.003	0.004	0.012	0.025	0.005
			A0130151	ASSAY	TB19127104	133.00	134.00	1.00	0.006	0.007	0.011	0.024	0.038	0.005
			A0130152	ASSAY	TB19127104	134.00	135.00	1.00	0.011	0.016	0.021	0.025	0.034	0.005
			A0130153	ASSAY	TB19127104	135.00	136.00	1.00	0.011	0.019	0.013	0.016	0.030	0.005
			A0130154	ASSAY	TB19127104	136.00	137.00	1.00	0.006	0.006	0.009	0.016	0.027	0.005
			A0130155	ASSAY	TB19127104	137.00	138.00	1.00	0.026	0.042	0.024	0.018	0.028	0.005
			A0130156	ASSAY	TB19127104	138.00	139.00	1.00	0.011	0.017	0.020	0.019	0.033	0.006
			A0130157	ASSAY	TB19127104	139.00	140.00	1.00	0.029	0.052	0.028	0.020	0.031	0.005
			A0130158	ASSAY	TB19127104	140.00	141.00	1.00	0.017	0.033	0.018	0.015	0.029	0.005
			A0130159	ASSAY	TB19127104	141.00	142.00	1.00	0.026	0.050	0.019	0.014	0.025	0.005
			A0130160	ASSAY	TB19127104	142.00	143.00	1.00	0.019	0.032	0.010	0.011	0.026	0.004
			A0130161	ASSAY	TB19127104	143.00	144.00	1.00	0.027	0.050	0.024	0.019	0.031	0.005
			A0130162	ASSAY	TB19127104	144.00	145.00	1.00	0.028	0.048	0.027	0.020	0.035	0.006
			A0130163	ASSAY	TB19127104	145.00	146.00	1.00	0.014	0.023	0.010	0.013	0.026	0.005
			A0130164	ASSAY	TB19127104	146.00	147.00	1.00	0.001	0.003	0.004	0.010	0.026	0.005
			A0130165	ASSAY	TB19127104	147.00	148.00	1.00	0.001	0.003	0.004	0.010	0.025	0.005
			A0130166	ASSAY	TB19127104	148.00	149.00	1.00	0.001	0.003	0.006	0.013	0.028	0.005
			A0130167	ASSAY	TB19127104	149.00	150.00	1.00	0.010	0.017	0.016	0.018	0.029	0.005
			A0130168	ASSAY	TB19127104	150.00	151.00	1.00	0.007	0.011	0.014	0.015	0.027	0.005
			A0130170	ASSAY	TB19127104	151.00	152.00	1.00	0.002	0.003	0.008	0.013	0.026	0.004
			A0130171	ASSAY	TB19127104	152.00	153.00	1.00	0.015	0.025	0.018	0.023	0.035	0.005
			A0130172	ASSAY	TB19127104	153.00	154.00	1.00	0.018	0.029	0.024	0.029	0.037	0.005
			A0130173	ASSAY	TB19127104	154.00	155.00	1.00	0.023	0.026	0.019	0.027	0.039	0.006
			A0130174	ASSAY	TB19127104	155.00	156.00	1.00	0.029	0.037	0.031	0.037	0.042	0.005
			A0130175	ASSAY	TB19127104	156.00	157.00	1.00	0.017	0.021	0.035	0.047	0.055	0.006
			A0130176	ASSAY	TB19127104	157.00	158.00	1.00	0.007	0.011	0.021	0.020	0.037	0.005
			A0130177	ASSAY	TB19127104	158.00	159.00	1.00	0.004	0.005	0.016	0.015	0.029	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130178	ASSAY	TB19127104	159.00	160.00	1.00	0.032	0.054	0.021	0.023	0.028	0.004
			A0130179	ASSAY	TB19127104	160.00	161.00	1.00	0.007	0.010	0.003	0.008	0.024	0.003
			A0130180	ASSAY	TB19127104	161.00	162.00	1.00	0.009	0.009	0.009	0.017	0.030	0.005
			A0130181	ASSAY	TB19127104	162.00	163.00	1.00	0.017	0.019	0.014	0.020	0.032	0.005
			A0130182	ASSAY	TB19127104	163.00	164.00	1.00	0.028	0.040	0.052	0.054	0.057	0.005
			A0130183	ASSAY	TB19127104	164.00	165.00	1.00	0.063	0.088	0.060	0.111	0.091	0.005
			A0130184	ASSAY	TB19127104	165.00	166.00	1.00	0.032	0.056	0.029	0.034	0.038	0.005
			A0130185	ASSAY	TB19127104	166.00	167.00	1.00	0.042	0.039	0.038	0.050	0.055	0.006
			A0130186	ASSAY	TB19127104	167.00	168.00	1.00	0.017	0.016	0.011	0.023	0.032	0.005
			A0130187	ASSAY	TB19127104	168.00	169.00	1.00	0.003	0.005	0.008	0.014	0.029	0.005
			A0130188	ASSAY	TB19127104	169.00	170.00	1.00	0.001	0.003	0.004	0.013	0.029	0.005
			A0130190	ASSAY	TB19127104	170.00	171.00	1.00	0.001	0.003	0.005	0.012	0.027	0.005
			A0130191	ASSAY	TB19127104	171.00	172.00	1.00	0.001	0.003	0.005	0.012	0.028	0.005
			A0130192	ASSAY	TB19127104	172.00	173.00	1.00	0.001	0.003	0.002	0.011	0.027	0.005
			A0130193	ASSAY	TB19127104	173.00	174.00	1.00	0.003	0.005	0.003	0.015	0.026	0.005
			A0130194	ASSAY	TB19127104	174.00	175.00	1.00	0.022	0.018	0.010	0.015	0.026	0.005
			A0130195	ASSAY	TB19127104	175.00	176.00	1.00	0.024	0.024	0.012	0.019	0.030	0.005
			A0130196	ASSAY	TB19127104	176.00	177.00	1.00	0.023	0.016	0.014	0.019	0.028	0.005
			A0130197	ASSAY	TB19127104	177.00	178.00	1.00	0.028	0.020	0.010	0.017	0.029	0.005
			A0130198	ASSAY	TB19127104	178.00	179.00	1.00	0.044	0.025	0.009	0.017	0.029	0.005
			A0130199	ASSAY	TB19127104	179.00	180.00	1.00	0.023	0.017	0.010	0.018	0.029	0.005
			A0130200	ASSAY	TB19127104	180.00	181.00	1.00	0.012	0.009	0.007	0.023	0.034	0.005
			A0130201	ASSAY	TB19127104	181.00	182.00	1.00	0.034	0.023	0.009	0.016	0.025	0.005
			A0130202	ASSAY	TB19127104	182.00	183.00	1.00	0.056	0.031	0.013	0.018	0.029	0.006
			A0130203	ASSAY	TB19127104	183.00	184.00	1.00	0.013	0.010	0.006	0.015	0.024	0.005
			A0130204	ASSAY	TB19127104	184.00	185.00	1.00	0.050	0.031	0.023	0.041	0.037	0.005
			A0130205	ASSAY	TB19127104	185.00	186.00	1.00	0.004	0.006	0.007	0.017	0.027	0.005
			A0130206	ASSAY	TB19127104	186.00	187.00	1.00	0.007	0.013	0.007	0.011	0.024	0.005
			A0130207	ASSAY	TB19127104	187.00	188.00	1.00	0.035	0.033	0.030	0.031	0.039	0.006
			A0130208	ASSAY	TB19127104	188.00	189.00	1.00	0.051	0.038	0.025	0.030	0.035	0.004
			A0130210	ASSAY	TB19127104	189.00	190.00	1.00	0.040	0.031	0.018	0.020	0.029	0.005
			A0130211	ASSAY	TB19127104	190.00	191.00	1.00	0.046	0.050	0.024	0.018	0.029	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130212	ASSAY	TB19127104	191.00	192.00	1.00	0.016	0.018	0.012	0.016	0.024	0.005
			A0130213	ASSAY	TB19127104	192.00	193.00	1.00	0.003	0.003	0.007	0.017	0.019	0.004
			A0130214	ASSAY	TB19127104	193.00	194.00	1.00	0.007	0.013	0.012	0.016	0.026	0.005
			A0130215	ASSAY	TB19127104	194.00	195.00	1.00	0.007	0.016	0.011	0.012	0.024	0.005
			A0130216	ASSAY	TB19127104	195.00	196.00	1.00	0.011	0.014	0.032	0.020	0.035	0.006
			A0130217	ASSAY	TB19127104	196.00	197.00	1.00	0.005	0.011	0.007	0.011	0.022	0.004
			A0130218	ASSAY	TB19127104	197.00	198.00	1.00	0.005	0.013	0.009	0.013	0.026	0.005
			A0130219	ASSAY	TB19127104	198.00	199.00	1.00	0.003	0.008	0.007	0.011	0.026	0.005
			A0130220	ASSAY	TB19127104	199.00	200.00	1.00	0.001	0.005	0.005	0.012	0.025	0.005
			A0130221	ASSAY	TB19127104	200.00	201.00	1.00	0.003	0.003	0.006	0.013	0.024	0.005
			A0130222	ASSAY	TB19127104	201.00	202.00	1.00	0.024	0.019	0.009	0.014	0.024	0.004
			A0130223	ASSAY	TB19127104	202.00	203.00	1.00	0.030	0.034	0.019	0.018	0.029	0.004
			A0130224	ASSAY	TB19127104	203.00	204.00	1.00	0.020	0.032	0.018	0.014	0.026	0.004
			A0130225	ASSAY	TB19127104	204.00	205.00	1.00	0.019	0.028	0.017	0.014	0.024	0.004
			A0130229	ASSAY	TB19127106	205.00	206.00	1.00	0.021	0.028	0.020	0.018	0.027	0.004
			A0130230	ASSAY	TB19127106	206.00	207.00	1.00	0.019	0.032	0.018	0.014	0.025	0.004
			A0130231	ASSAY	TB19127106	207.00	207.88	0.88	0.018	0.031	0.018	0.013	0.025	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
207.88	224.83	**GAB-Vt** 207.88 - 224.83m / Varitexture Gabbro Green and white, medium- to coarse-grained, massive, varitexture gabbro. 50% feldspars, 50% altered pyroxene. Moderate pervasive chl-act alt. Trace Py-Po-Cpy as disseminated grains. Local cross-cutting qtz veins (5cm thick). Sharp but irregular lower contact with mafic dike.	A0130232	ASSAY	TB19127106	207.88	209.00	1.12	0.019	0.031	0.019	0.013	0.024	0.004
			A0130233	ASSAY	TB19127106	209.00	210.00	1.00	0.016	0.025	0.014	0.011	0.024	0.004
			A0130234	ASSAY	TB19127106	210.00	211.00	1.00	0.014	0.022	0.013	0.012	0.022	0.004
			A0130235	ASSAY	TB19127106	211.00	212.00	1.00	0.018	0.029	0.022	0.016	0.025	0.005
			A0130236	ASSAY	TB19127106	212.00	213.00	1.00	0.021	0.027	0.015	0.013	0.024	0.004
			A0130237	ASSAY	TB19127106	213.00	214.00	1.00	0.003	0.003	0.005	0.011	0.020	0.004
			A0130238	ASSAY	TB19127106	214.00	215.00	1.00	0.003	0.003	0.002	0.004	0.021	0.004
			A0130239	ASSAY	TB19127106	215.00	216.00	1.00	0.003	0.003	0.007	0.012	0.023	0.004
			A0130240	ASSAY	TB19127106	216.00	217.00	1.00	0.005	0.005	0.013	0.020	0.028	0.005
			A0130241	ASSAY	TB19127106	217.00	218.00	1.00	0.005	0.007	0.011	0.019	0.029	0.005
			A0130242	ASSAY	TB19127106	218.00	219.00	1.00	0.008	0.007	0.008	0.012	0.027	0.005
			A0130243	ASSAY	TB19127106	219.00	220.00	1.00	0.007	0.006	0.018	0.019	0.031	0.005
			A0130244	ASSAY	TB19127106	220.00	221.00	1.00	0.004	0.005	0.005	0.010	0.028	0.005
			A0130245	ASSAY	TB19127106	221.00	222.00	1.00	0.003	0.003	0.015	0.024	0.033	0.005
			A0130246	ASSAY	TB19127106	222.00	223.00	1.00	0.001	0.003	0.008	0.025	0.029	0.005
			A0130248	ASSAY	TB19127106	223.00	224.00	1.00	0.001	0.003	0.002	0.016	0.025	0.005
			A0130249	ASSAY	TB19127106	224.00	224.83	0.83	0.003	0.003	0.008	0.041	0.034	0.006
224.83	228.35	**DIKE-Mafic** 224.83 - 228.35m / Mafic Dike Black, fine-grained, massive, mafic dike. Host a 40cm thick interval of GAB VT. Sharp upper and lower contact.	A0130250	ASSAY	TB19127106	224.83	226.00	1.17	0.001	0.003	0.001	0.008	0.007	0.004
			A0130251	ASSAY	TB19127106	226.00	227.00	1.00	0.001	0.003	0.001	0.007	0.012	0.005
			A0130252	ASSAY	TB19127106	227.00	227.70	0.70	0.001	0.003	0.001	0.006	0.008	0.005
			A0130253	ASSAY	TB19127106	227.70	228.35	0.65	0.001	0.003	0.001	0.007	0.010	0.006
228.35	229.52	**GAB-Vt** 228.35 - 229.52m / Varitexture Gabbro Green and white, medium- to coarse-grained, massive, varitexture gabbro. 50% feldspar, 50% altered pyroxene. Moderate pervasive chl-act alt. Sharp but irregular lower contact with tonalite.	A0130254	ASSAY	TB19127106	228.35	229.52	1.17	0.001	0.003	0.002	0.010	0.011	0.004

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
229.52	326.00 **TON**	229.52 - 326.0m / Tonalite White and black, medium-grained, foliated tonalite. Variably magnetic, kappa from 1-20. Felsic to mafic in composition. Local stringers of epidote associated with K-alt boarders. Local blue qtz. Local pyrite stringers. Local mafic dikes intruding parallel to foliation. Rare shears cutting subparallel to foliation.	A0130255	ASSAY	TB19127106	229.52	230.25	0.73	0.001	0.003	0.001	0.001	0.000	0.001
			A0130256	ASSAY	TB19127106	230.25	231.00	0.75	0.001	0.003	0.001	0.001	0.000	0.001
			A0130257	ASSAY	TB19127106	231.00	232.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
			A0130258	ASSAY	TB19127106	232.00	233.00	1.00	0.001	0.003	0.001	0.001	0.001	0.001
			A0130259	ASSAY	TB19127106	233.00	234.00	1.00	0.001	0.003	0.001	0.002	0.002	0.002
			A0130260	ASSAY	TB19127106	234.00	235.00	1.00	0.001	0.003	0.001	0.002	0.001	0.002
			A0130261	ASSAY	TB19127106	235.00	236.00	1.00	0.001	0.003	0.001	0.004	0.003	0.002
			A0130262	ASSAY	TB19127106	236.00	237.00	1.00	0.001	0.003	0.001	0.002	0.002	0.002
			A0130263	ASSAY	TB19127106	237.00	238.00	1.00	0.001	0.003	0.001	0.003	0.002	0.002
			A0130264	ASSAY	TB19127106	238.00	239.00	1.00	0.001	0.003	0.001	0.003	0.003	0.003

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	305.74	-50.10	UNCSPRNT	O	
5.00	305.20	-50.89	UNCSPRNT	O	
10.00	305.64	-50.78	UNCSPRNT	O	
15.00	306.42	-50.37	UNCSPRNT	O	
20.00	306.35	-50.34	UNCSPRNT	O	
25.00	306.45	-50.11	UNCSPRNT	O	
30.00	306.41	-50.00	UNCSPRNT	O	
35.00	306.33	-50.04	UNCSPRNT	O	
40.00	306.37	-50.02	UNCSPRNT	O	
45.00	306.38	-50.02	UNCSPRNT	O	
50.00	306.33	-50.00	UNCSPRNT	O	
55.00	306.46	-49.98	UNCSPRNT	O	
60.00	306.53	-49.95	UNCSPRNT	O	
65.00	306.63	-49.94	UNCSPRNT	O	
70.00	306.66	-49.92	UNCSPRNT	O	
75.00	306.68	-49.95	UNCSPRNT	O	
80.00	306.75	-49.94	UNCSPRNT	O	
85.00	306.87	-49.90	UNCSPRNT	O	
90.00	306.80	-49.90	UNCSPRNT	O	
95.00	306.90	-49.88	UNCSPRNT	O	
100.00	306.92	-49.85	UNCSPRNT	O	
105.00	306.92	-49.87	UNCSPRNT	O	
110.00	307.00	-49.87	UNCSPRNT	O	
115.00	306.97	-49.86	UNCSPRNT	O	
120.00	307.01	-49.87	UNCSPRNT	O	
125.00	307.07	-49.88	UNCSPRNT	O	
130.00	307.15	-49.85	UNCSPRNT	O	
135.00	307.14	-49.82	UNCSPRNT	O	
140.00	307.23	-49.77	UNCSPRNT	O	
145.00	307.31	-49.79	UNCSPRNT	O	
150.00	307.31	-49.82	UNCSPRNT	O	
155.00	307.40	-49.78	UNCSPRNT	O	
160.00	307.48	-49.80	UNCSPRNT	O	
165.00	307.41	-49.85	UNCSPRNT	O	
170.00	307.53	-49.80	UNCSPRNT	O	
175.00	307.54	-49.77	UNCSPRNT	O	
180.00	307.59	-49.78	UNCSPRNT	O	

185.00	307.60	-49.77	UNCSPRNT	O
190.00	307.67	-49.78	UNCSPRNT	O
195.00	307.69	-49.76	UNCSPRNT	O
200.00	307.75	-49.77	UNCSPRNT	O
205.00	307.79	-49.71	UNCSPRNT	O
210.00	307.87	-49.74	UNCSPRNT	O
215.00	307.91	-49.73	UNCSPRNT	O
220.00	307.93	-49.69	UNCSPRNT	O
225.00	307.97	-49.72	UNCSPRNT	O
230.00	308.01	-49.69	UNCSPRNT	O
235.00	308.13	-49.69	UNCSPRNT	O
240.00	308.16	-49.64	UNCSPRNT	O
245.00	308.16	-49.62	UNCSPRNT	O
250.00	308.30	-49.63	UNCSPRNT	O
255.00	308.25	-49.67	UNCSPRNT	O
260.00	308.46	-49.66	UNCSPRNT	O
265.00	308.35	-49.65	UNCSPRNT	O
270.00	308.43	-49.63	UNCSPRNT	O
275.00	308.50	-49.64	UNCSPRNT	O
280.00	308.54	-49.62	UNCSPRNT	O
285.00	308.45	-49.60	UNCSPRNT	O
290.00	308.52	-49.58	UNCSPRNT	O
295.00	308.65	-49.53	UNCSPRNT	O
300.00	308.60	-49.52	UNCSPRNT	O
305.00	308.68	-49.52	UNCSPRNT	O

Detailed Log Report
Hole Number 19-606

Project Name:	LDI - Mine	**Primary Coordinates Grid:**	MINE:	**Hole Status:**	Completed
Project Code:	LDI MINE	**North:**	31,691.99	**Length:**	302.00
Location:		**East:**	31,583.83	**Hole Size:**	NQ
Start Date:	May 22, 2019	**Elev:**	501.88	**Hole Type:**	DDH
Completed Date:	May 25, 2019	**Collar Dip:**	-50.69	**Casing:**	No
Contractor:	Major Drilling	**Collar Az:**	304.45	**Cemented:**	Yes
Core Storage:	Lac des Iles Minesite-cross piles	**Destination Coordinates Grid:**	UTM83-16	**Collar Survey:**	N
Units:	METRIC	**North:**	5,449,305.68	**Multishot Survey:**	N
Start Log:	May 24, 2019	**East:**	308,942.67	**EOH:**	302.00
End Log:	May 27, 2019	**Elev:**	501.88	**Artesian Cond:**	No
Logged By 1:	Brigitte Gelinas	**Claim:**	253	**Abandon Reason:**	

Plugged:	N		
Pulse EM Survey:	N		

Detailed Lithology

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
0.00	9.85	**OB**												

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
9.85	25.37	**GAB-Vt** 9.85 - 25.37m / Varitexture Gabbro Green and white, fine- to coarse-grained, massive, varitexture gabbro. 30-40% white feldspar, 60-70% altered pyroxenes. Weak to moderate pervasive chl-act alt. Trace Py-Po-Cpy Sharp lower ctct with mafic dike. Local thin mafic dikes cutting throughout - see structural tab.	A0130265	ASSAY	TB19127106	9.85	11.00	1.15	0.002	0.003	0.002	0.006	0.022	0.004
			A0130266	ASSAY	TB19127106	11.00	12.00	1.00	0.029	0.021	0.001	0.004	0.021	0.003
			A0130268	ASSAY	TB19127106	12.00	13.00	1.00	0.384	0.049	0.008	0.006	0.026	0.004
			A0130269	ASSAY	TB19127106	13.00	14.00	1.00	0.012	0.003	0.017	0.007	0.021	0.004
			A0130270	ASSAY	TB19127106	14.00	15.00	1.00	0.010	0.003	0.004	0.006	0.021	0.004
			A0130271	ASSAY	TB19127106	15.00	16.00	1.00	0.001	0.003	0.003	0.007	0.027	0.005
			A0130272	ASSAY	TB19127106	16.00	17.00	1.00	0.002	0.003	0.002	0.008	0.029	0.005
			A0130273	ASSAY	TB19127106	17.00	18.00	1.00	0.071	0.018	0.003	0.005	0.032	0.005
			A0130274	ASSAY	TB19127106	18.00	19.00	1.00	0.003	0.003	0.002	0.004	0.020	0.003
			A0130275	ASSAY	TB19127106	19.00	20.00	1.00	0.013	0.005	0.007	0.012	0.025	0.004
			A0130276	ASSAY	TB19127106	20.00	21.00	1.00	0.067	0.016	0.010	0.016	0.034	0.005
			A0130277	ASSAY	TB19127106	21.00	22.00	1.00	0.063	0.016	0.012	0.016	0.038	0.006
			A0130278	ASSAY	TB19127106	22.00	23.00	1.00	0.010	0.003	0.006	0.012	0.023	0.004
			A0130279	ASSAY	TB19127106	23.00	24.00	1.00	0.002	0.003	0.002	0.006	0.017	0.004
			A0130280	ASSAY	TB19127106	24.00	25.37	1.37	0.041	0.006	0.007	0.021	0.027	0.004
25.37	26.39	**DIKE-Mafic** 25.37 - 26.39m / Mafic Dike Blackish purple, fine-grained, massive mafic dike. Thin parallel alt stringers commonly cutting dikes. Locally foliated margins. Trace Py as disseminated to stringers. Sharp upper and lower ctct.	A0130281	ASSAY	TB19127106	25.37	26.39	1.02	0.005	0.003	0.001	0.009	0.002	0.003
26.39	30.24	**GAB-Vt** 26.39 - 30.24m / Varitexture Gabbro Green and white, fine- to coarse-grained, massive, varitexture gabbro. 30-40% white feldspar, 60-70% altered pyroxenes. Strong pervasive chl-act alt. Trace Po-Cpy-Py Sharp lower ctct with mafic dike. Local thin mafic and felsic dikes cutting throughout.	A0130282	ASSAY	TB19127106	26.39	27.20	0.81	0.064	0.012	0.005	0.006	0.032	0.005
			A0130283	ASSAY	TB19127106	27.20	28.00	0.80	0.112	0.027	0.012	0.015	0.036	0.005
			A0130284	ASSAY	TB19127106	28.00	29.00	1.00	0.144	0.027	0.014	0.015	0.031	0.005
			A0130285	ASSAY	TB19127106	29.00	30.24	1.24	0.264	0.078	0.010	0.011	0.032	0.005

From	To	Lithology
30.24	31.34	**DIKE-Mafic**
		30.24 - 31.34m / Mafic Dike Blackish purple, fine-grained, massive mafic dike. Thin parallel alt stringers commonly cutting dikes. Locally foliated margins. Trace Py as disseminated to stringers. Sharp upper and lower ctct.
31.34	55.94	**GAB-Vt**
		31.34 - 55.94m / Varitexture Gabbro Green and white, fine- to coarse-grained, massive, varitexture gabbro. 30-40% white feldspar, 60-70% altered pyroxenes. Moderate to strong pervasive chl-act alt. Local ep stringers. Trace Po-Cpy-Py with rare 15cm thick intervals of 0.2% interstitial blebs at 40.25m. Sharp lower ctct with mafic dike. Local thin mafic and felsic dikes cutting throughout.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130286	ASSAY	TB19127106	30.24	31.34	1.10	0.001	0.003	0.001	0.007	0.002	0.003
A0130288	ASSAY	TB19127106	31.34	32.16	0.82	0.154	0.017	0.009	0.020	0.036	0.005
A0130289	ASSAY	TB19127106	32.16	33.00	0.84	0.004	0.003	0.007	0.019	0.036	0.005
A0130290	ASSAY	TB19127106	33.00	34.00	1.00	0.001	0.003	0.001	0.003	0.025	0.004
A0130291	ASSAY	TB19127106	34.00	35.00	1.00	0.109	0.008	0.005	0.016	0.037	0.005
A0130292	ASSAY	TB19127106	35.00	36.00	1.00	0.002	0.003	0.005	0.015	0.031	0.005
A0130293	ASSAY	TB19127106	36.00	37.00	1.00	0.101	0.014	0.011	0.026	0.033	0.005
A0130294	ASSAY	TB19127106	37.00	38.00	1.00	0.058	0.003	0.002	0.006	0.031	0.005
A0130295	ASSAY	TB19127106	38.00	39.00	1.00	0.151	0.012	0.002	0.008	0.030	0.004
A0130296	ASSAY	TB19127106	39.00	40.00	1.00	0.021	0.003	0.003	0.011	0.029	0.004
A0130297	ASSAY	TB19127106	40.00	41.00	1.00	1.060	0.122	0.051	0.065	0.058	0.005
A0130298	ASSAY	TB19127106	41.00	42.00	1.00	0.007	0.003	0.001	0.005	0.024	0.004
A0130299	ASSAY	TB19127106	42.00	43.00	1.00	0.126	0.057	0.012	0.006	0.028	0.004
A0130300	ASSAY	TB19127106	43.00	44.00	1.00	0.132	0.032	0.015	0.028	0.043	0.005
A0130301	ASSAY	TB19127106	44.00	45.00	1.00	0.106	0.019	0.009	0.017	0.034	0.005
A0130302	ASSAY	TB19127106	45.00	46.00	1.00	0.197	0.043	0.020	0.043	0.063	0.006
A0130303	ASSAY	TB19127106	46.00	47.00	1.00	0.092	0.029	0.018	0.032	0.056	0.005
A0130307	ASSAY	TB19172672	47.00	48.00	1.00	0.035	0.010	0.010	0.021	0.036	0.005
A0130308	ASSAY	TB19172672	48.00	49.00	1.00	0.042	0.006	0.013	0.021	0.043	0.006
A0130309	ASSAY	TB19172672	49.00	50.00	1.00	0.198	0.065	0.018	0.029	0.036	0.005
A0130310	ASSAY	TB19172672	50.00	51.00	1.00	0.001	0.003	0.001	0.008	0.030	0.005
A0130311	ASSAY	TB19172672	51.00	52.00	1.00	0.025	0.003	0.006	0.012	0.024	0.004
A0130312	ASSAY	TB19172672	52.00	53.00	1.00	0.041	0.003	0.011	0.026	0.026	0.004
A0130313	ASSAY	TB19172672	53.00	54.00	1.00	0.036	0.003	0.003	0.008	0.028	0.004
A0130314	ASSAY	TB19172672	54.00	55.00	1.00	0.014	0.003	0.002	0.009	0.025	0.004
A0130315	ASSAY	TB19172672	55.00	55.94	0.94	0.009	0.003	0.001	0.003	0.023	0.003

From	To	Lithology
55.94	58.15	**DIKE-Mafic**

55.94 - 58.15m / Mafic Dike
Blackish purple, fine-grained, massive, magnetic mafic dike.
Thin parallel alt stringers commonly cutting dikes.
Fractured margin showing brittle displacement.
Trace Py as disseminated to stringers. Magnetic up to 54kappa.
Epidote and qtz flooding near upper margin of dike over 30cm.
Sharp upper and lower ctct. Dike locally hosts tonalite xenoliths.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130316	ASSAY	TB19172672	55.94	57.00	1.06	0.015	0.003	0.003	0.012	0.010	0.003
A0130317	ASSAY	TB19172672	57.00	58.15	1.15	0.017	0.003	0.004	0.010	0.005	0.003

From	To	Lithology
58.15	87.63	**GAB-Vt**

58.15 - 87.63m / Varitexture Gabbro
Green, fine- to coarse-grained, massive, varitextured gabbro.
20-50% white to yellow feldspar, 50-80% altered pyroxenes.
Strong pervasive chl-act alt, moderate Na-alt on feldspars.
Trace Po-Cpy-Py, with 0.3% interval of disseminated Po-Cpy from 66.22-72.89m and 0.2% disseminated Po-Cpy from 82.55-87.21m.
Unit is commonly cut by <1m thick mafic dikes and hosts tonalite xenoliths.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130318	ASSAY	TB19172672	58.15	59.00	0.85	0.503	0.086	0.039	0.051	0.069	0.005
A0130319	ASSAY	TB19172672	59.00	60.00	1.00	0.129	0.038	0.013	0.014	0.020	0.003
A0130320	ASSAY	TB19172672	60.00	61.00	1.00	0.443	0.080	0.039	0.010	0.039	0.005
A0130321	ASSAY	TB19172672	61.00	62.00	1.00	4.090	0.950	0.075	0.044	0.080	0.004
A0130322	ASSAY	TB19172672	62.00	63.00	1.00	1.930	0.533	0.043	0.041	0.057	0.004
A0130323	ASSAY	TB19172672	63.00	64.00	1.00	2.630	0.680	0.036	0.018	0.056	0.005
A0130324	ASSAY	TB19172672	64.00	65.00	1.00	1.560	0.417	0.035	0.038	0.059	0.005
A0130326	ASSAY	TB19172672	65.00	66.00	1.00	0.774	0.334	0.023	0.023	0.041	0.004
A0130327	ASSAY	TB19172672	66.00	67.00	1.00	4.530	1.630	0.078	0.053	0.075	0.005
A0130328	ASSAY	TB19172672	67.00	68.00	1.00	2.880	0.989	0.069	0.047	0.080	0.005
A0130329	ASSAY	TB19172672	68.00	69.00	1.00	3.860	0.746	0.158	0.101	0.143	0.008
A0130330	ASSAY	TB19172672	69.00	70.00	1.00	3.030	0.631	0.076	0.061	0.080	0.005
A0130331	ASSAY	TB19172672	70.00	71.00	1.00	1.450	0.391	0.065	0.048	0.067	0.006
A0130332	ASSAY	TB19172672	71.00	72.00	1.00	0.288	0.058	0.024	0.022	0.042	0.005
A0130333	ASSAY	TB19172672	72.00	73.00	1.00	0.298	0.049	0.041	0.052	0.067	0.006
A0130334	ASSAY	TB19172672	73.00	74.00	1.00	0.187	0.031	0.009	0.012	0.032	0.005
A0130335	ASSAY	TB19172672	74.00	75.00	1.00	0.130	0.025	0.009	0.013	0.030	0.004
A0130336	ASSAY	TB19172672	75.00	76.00	1.00	0.153	0.030	0.012	0.016	0.032	0.005
A0130337	ASSAY	TB19172672	76.00	77.00	1.00	0.133	0.043	0.013	0.014	0.034	0.005
A0130338	ASSAY	TB19172672	77.00	78.00	1.00	0.065	0.019	0.008	0.014	0.038	0.006
A0130339	ASSAY	TB19172672	78.00	79.00	1.00	0.168	0.054	0.012	0.015	0.040	0.006
A0130340	ASSAY	TB19172672	79.00	80.00	1.00	0.221	0.067	0.013	0.012	0.038	0.006
A0130341	ASSAY	TB19172672	80.00	81.00	1.00	0.046	0.023	0.010	0.009	0.032	0.005
A0130342	ASSAY	TB19172672	81.00	82.00	1.00	0.202	0.070	0.019	0.026	0.043	0.005
A0130343	ASSAY	TB19172672	82.00	83.00	1.00	0.344	0.102	0.032	0.041	0.062	0.004
A0130344	ASSAY	TB19172672	83.00	84.00	1.00	0.257	0.076	0.023	0.031	0.041	0.003
A0130346	ASSAY	TB19172672	84.00	85.00	1.00	0.098	0.027	0.007	0.008	0.023	0.003
A0130347	ASSAY	TB19172672	85.00	86.00	1.00	0.642	0.090	0.041	0.065	0.061	0.005
A0130348	ASSAY	TB19172672	86.00	86.80	0.80	0.302	0.061	0.061	0.081	0.083	0.005
A0130349	ASSAY	TB19172672	86.80	87.63	0.83	0.784	0.157	0.022	0.018	0.037	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
87.63	95.60	**DIKE-Mafic** 87.63 - 95.6m / Mafic Dike Blackish purple, fine-grained, massive, magnetic mafic dike. Thin parallel epi and Na-alt stringers commonly cutting dikes. Locally foliated margins. Trace Py as disseminated to stringers. Magnetic up to 54kappa Sharp upper and lower ctct.	A0130350	ASSAY	TB19172672	87.63	88.30	0.67	0.014	0.005	0.001	0.008	0.004	0.003
			A0130351	ASSAY	TB19172672	88.30	89.00	0.70	0.001	0.003	0.001	0.004	0.001	0.003
			A0130352	ASSAY	TB19172672	89.00	90.00	1.00	0.001	0.003	0.001	0.004	0.002	0.003
			A0130353	ASSAY	TB19172672	90.00	91.00	1.00	0.001	0.003	0.001	0.004	0.002	0.003
			A0130354	ASSAY	TB19172672	91.00	92.00	1.00	0.001	0.003	0.001	0.004	0.003	0.003
			A0130355	ASSAY	TB19172672	92.00	93.00	1.00	0.001	0.003	0.001	0.005	0.003	0.003
			A0130356	ASSAY	TB19172672	93.00	94.00	1.00	0.001	0.003	0.003	0.010	0.004	0.004
			A0130357	ASSAY	TB19172672	94.00	94.80	0.80	0.001	0.003	0.003	0.009	0.004	0.004
			A0130358	ASSAY	TB19172672	94.80	95.60	0.80	0.001	0.003	0.001	0.006	0.004	0.004
95.60	102.68	**GAB-Vt** 95.60 - 102.68m / Varitexture Gabbro Green, fine- to medium-grained, massive, varitexture gabbro. 10-30% feldspar, 70-90% altered pyroxene. Strong pervasive chl-act alt. Trace disseminated py. Gradational ctct into leuro GABVT DH cuts edge of mafic dike with felsic margin.	A0130359	ASSAY	TB19172672	95.60	96.27	0.67	0.029	0.010	0.003	0.007	0.021	0.004
			A0130360	ASSAY	TB19172672	96.27	97.00	0.73	0.029	0.014	0.006	0.007	0.030	0.005
			A0130361	ASSAY	TB19172672	97.00	98.00	1.00	0.023	0.013	0.006	0.008	0.032	0.004
			A0130362	ASSAY	TB19203729	98.00	99.00	1.00	0.092	0.031	0.005	0.012	0.031	0.005
			A0130363	ASSAY	TB19203729	99.00	100.00	1.00	0.075	0.022	0.003	0.007	0.031	0.005
			A0130364	ASSAY	TB19203729	100.00	101.00	1.00	0.032	0.008	0.005	0.013	0.023	0.004
			A0130366	ASSAY	TB19203729	101.00	102.00	1.00	0.194	0.063	0.017	0.035	0.047	0.005
			A0130367	ASSAY	TB19203729	102.00	102.68	0.68	0.559	0.174	0.020	0.022	0.041	0.005
102.68	114.88	**LGAB-Vt** 102.68 - 114.88m / Varitexture Leuco-Gabbro White and green, medium- to coarse-grained, massive, varitextured leucogabbro. 70-90% white feldspar, 10-30% altered pyroxene. Moderate pervasive chl-act alt, with weak bt alt. Trace disseminated py. Gradational upper and lower ctct into normal GAB VT	A0130368	ASSAY	TB19203729	102.68	103.34	0.66	0.611	0.200	0.016	0.017	0.029	0.004
			A0130369	ASSAY	TB19172672	103.34	104.00	0.66	0.249	0.102	0.004	0.004	0.021	0.003
			A0130370	ASSAY	TB19172672	104.00	105.00	1.00	0.067	0.032	0.001	0.003	0.021	0.002
			A0130371	ASSAY	TB19172672	105.00	106.00	1.00	0.067	0.031	0.001	0.004	0.019	0.002
			A0130372	ASSAY	TB19172672	106.00	107.00	1.00	0.067	0.026	0.001	0.002	0.019	0.002
			A0130373	ASSAY	TB19172672	107.00	108.00	1.00	0.076	0.032	0.001	0.002	0.020	0.002
			A0130374	ASSAY	TB19172672	108.00	109.00	1.00	0.060	0.028	0.001	0.002	0.021	0.002
			A0130375	ASSAY	TB19172672	109.00	110.00	1.00	0.059	0.028	0.001	0.002	0.024	0.003
			A0130376	ASSAY	TB19172672	110.00	111.00	1.00	0.067	0.030	0.002	0.007	0.025	0.004
			A0130377	ASSAY	TB19172672	111.00	112.00	1.00	0.047	0.022	0.001	0.001	0.020	0.003
			A0130378	ASSAY	TB19203729	112.00	113.00	1.00	0.117	0.037	0.008	0.019	0.033	0.004
			A0130379	ASSAY	TB19203729	113.00	114.00	1.00	0.080	0.042	0.001	0.002	0.024	0.004
			A0130380	ASSAY	TB19203729	114.00	114.88	0.88	0.133	0.053	0.001	0.002	0.023	0.003

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
114.88	122.42	**GAB-Vt** 114.88 - 122.88m / Varitexture Gabbro Green, fine- to medium-grained, massive, varitexture gabbro. 20% white feldspar, 80% altered pyroxene. Strong chl-act alt. 0.2% disseminated blebby Po>Cpy>Py from 115.3-119.46m. Trace disseminated to end of unit. Gradational ctct with lower norite.	A0130381	ASSAY	TB19203729	114.88	116.00	1.12	0.047	0.021	0.018	0.041	0.054	0.005
			A0130385	ASSAY	TB19172689	116.00	117.00	1.00	0.011	0.003	0.019	0.047	0.032	0.005
			A0130386	ASSAY	TB19172689	117.00	118.00	1.00	0.022	0.010	0.014	0.025	0.035	0.005
			A0130387	ASSAY	TB19172689	118.00	119.00	1.00	0.123	0.026	0.037	0.032	0.041	0.006
			A0130388	ASSAY	TB19172689	119.00	120.00	1.00	0.132	0.027	0.024	0.030	0.046	0.006
			A0130389	ASSAY	TB19172689	120.00	121.00	1.00	0.127	0.033	0.016	0.008	0.038	0.005
			A0130390	ASSAY	TB19172689	121.00	121.68	0.68	0.110	0.032	0.019	0.024	0.040	0.006
			A0130391	ASSAY	TB19172689	121.68	122.42	0.74	0.177	0.030	0.027	0.034	0.046	0.006
122.42	126.47	**NOR** 122.42 - 126.47m / Norite Dark purple green, fine-grained, massive, norite. 10% feldspar, 90% altered pyroxene. Strong chl-act alt. Trace to 0.1% disseminated Po-Cpy-Py. Moderately magnetic with 57kappa. Sheared lower ctct with mafic dike.	A0130392	ASSAY	TB19172689	122.42	123.00	0.58	0.140	0.023	0.024	0.026	0.047	0.007
			A0130393	ASSAY	TB19172689	123.00	124.00	1.00	0.352	0.080	0.025	0.036	0.067	0.008
			A0130394	ASSAY	TB19172689	124.00	125.00	1.00	0.246	0.046	0.023	0.029	0.047	0.006
			A0130395	ASSAY	TB19172689	125.00	125.75	0.75	0.361	0.052	0.025	0.035	0.057	0.007
			A0130396	ASSAY	TB19172689	125.75	126.47	0.72	0.260	0.054	0.034	0.044	0.074	0.008
126.47	129.07	**DIKE-Mafic** 126.47 - 129.07m / Mafic Dike Dark gray, fine-grained, weakly magnetic, mafic dike. Weak chl stringers associated with Na-alt? Trace py stringers. Kappa up to 35. Sharp upper and lower ctct	A0130397	ASSAY	TB19172689	126.47	127.25	0.78	0.005	0.003	0.004	0.024	0.003	0.004
			A0130398	ASSAY	TB19172689	127.25	128.00	0.75	0.001	0.003	0.001	0.017	0.003	0.004
			A0130399	ASSAY	TB19172689	128.00	129.07	1.07	0.014	0.003	0.005	0.037	0.005	0.004
129.07	135.85	**GAB-Vt** 129.07 - 135.85m / Varitexture gabbro Green, fine- to medium-grained, massive, strongly altered, varitextured gabbro. 20% feldspar, 80% altered pyroxene. Strong pervasive chl-act alt. trace Py sharp upper and lower ctct with mafic dikes local 1cm thick qtz veins	A0130400	ASSAY	TB19172689	129.07	130.00	0.93	0.217	0.041	0.003	0.005	0.043	0.005
			A0130401	ASSAY	TB19172689	130.00	131.00	1.00	0.124	0.032	0.001	0.002	0.031	0.004
			A0130402	ASSAY	TB19172689	131.00	132.00	1.00	0.088	0.020	0.002	0.004	0.030	0.005
			A0130404	ASSAY	TB19172689	132.00	133.00	1.00	0.119	0.020	0.001	0.004	0.028	0.004
			A0130405	ASSAY	TB19172689	133.00	134.00	1.00	0.084	0.016	0.024	0.029	0.036	0.005
			A0130406	ASSAY	TB19172689	134.00	135.00	1.00	0.053	0.007	0.001	0.006	0.034	0.005
			A0130407	ASSAY	TB19172689	135.00	135.85	0.85	0.135	0.023	0.003	0.007	0.035	0.005

From	To	Lithology
135.85	176.67	**DIKE-Mafic**

135.85 - 176.67m / Mafic Dike
Dark gray, fine-grained, massive to foliated, weakly magnetic, mafic dike.
Common chl stringers associated with disseminated anhedral to euhedral py, Common Na-alt and epi stringers all parallel to eachother trending 40 TCA.
Local feld globs in the dike.
Local GAB VT lenses.
Sharp upper and lower ctct.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130408	ASSAY	TB19172689	135.85	137.00	1.15	0.028	0.003	0.001	0.010	0.012	0.005
A0130409	ASSAY	TB19172689	137.00	138.00	1.00	0.001	0.003	0.001	0.009	0.007	0.005
A0130410	ASSAY	TB19172689	138.00	139.00	1.00	0.001	0.003	0.002	0.012	0.007	0.005
A0130411	ASSAY	TB19172689	139.00	140.00	1.00	0.001	0.003	0.001	0.011	0.007	0.005
A0130412	ASSAY	TB19172689	140.00	141.00	1.00	0.001	0.003	0.001	0.007	0.007	0.005
A0130413	ASSAY	TB19172689	141.00	142.00	1.00	0.001	0.003	0.001	0.007	0.007	0.005
A0130414	ASSAY	TB19172689	142.00	143.00	1.00	0.001	0.003	0.001	0.006	0.007	0.005
A0130415	ASSAY	TB19172689	143.00	144.00	1.00	0.001	0.003	0.001	0.005	0.007	0.005
A0130416	ASSAY	TB19172689	144.00	145.00	1.00	0.001	0.003	0.001	0.005	0.006	0.004
A0130417	ASSAY	TB19172689	145.00	146.00	1.00	0.001	0.003	0.001	0.003	0.004	0.004
A0130418	ASSAY	TB19172689	146.00	147.00	1.00	0.001	0.003	0.001	0.003	0.001	0.003
A0130419	ASSAY	TB19172689	147.00	148.00	1.00	0.001	0.003	0.001	0.003	0.001	0.003
A0130420	ASSAY	TB19172689	148.00	149.00	1.00	0.001	0.003	0.001	0.004	0.004	0.004
A0130421	ASSAY	TB19172689	149.00	150.00	1.00	0.001	0.003	0.001	0.005	0.005	0.004
A0130422	ASSAY	TB19172689	150.00	151.00	1.00	0.001	0.003	0.001	0.004	0.004	0.004
A0130424	ASSAY	TB19172689	151.00	152.00	1.00	0.001	0.003	0.001	0.004	0.007	0.004
A0130425	ASSAY	TB19172689	152.00	153.00	1.00	0.003	0.003	0.001	0.008	0.005	0.004
A0130426	ASSAY	TB19172689	153.00	154.00	1.00	0.001	0.003	0.001	0.015	0.006	0.004
A0130427	ASSAY	TB19172689	154.00	155.00	1.00	0.001	0.003	0.001	0.017	0.006	0.004
A0130428	ASSAY	TB19172689	155.00	156.00	1.00	0.001	0.003	0.001	0.007	0.006	0.005
A0130429	ASSAY	TB19172689	156.00	157.00	1.00	0.001	0.003	0.001	0.008	0.007	0.005
A0130430	ASSAY	TB19172689	157.00	158.00	1.00	0.001	0.003	0.001	0.006	0.007	0.004
A0130431	ASSAY	TB19172689	158.00	159.00	1.00	0.001	0.003	0.001	0.006	0.006	0.004
A0130432	ASSAY	TB19172689	159.00	160.00	1.00	0.001	0.003	0.001	0.004	0.002	0.003
A0130433	ASSAY	TB19172689	160.00	161.00	1.00	0.001	0.003	0.001	0.005	0.003	0.003
A0130434	ASSAY	TB19172689	161.00	162.00	1.00	0.018	0.008	0.001	0.003	0.007	0.003
A0130435	ASSAY	TB19172689	162.00	163.00	1.00	0.032	0.016	0.001	0.002	0.009	0.003
A0130436	ASSAY	TB19172689	163.00	164.00	1.00	0.001	0.003	0.001	0.005	0.005	0.004
A0130437	ASSAY	TB19172689	164.00	165.00	1.00	0.001	0.003	0.001	0.004	0.004	0.004
A0130438	ASSAY	TB19172689	165.00	166.00	1.00	0.001	0.003	0.001	0.005	0.004	0.003
A0130439	ASSAY	TB19172689	166.00	167.00	1.00	0.001	0.003	0.001	0.004	0.002	0.003

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130440	ASSAY	TB19172689	167.00	168.00	1.00	0.001	0.003	0.001	0.004	0.003	0.003
			A0130441	ASSAY	TB19172689	168.00	169.00	1.00	0.001	0.003	0.001	0.004	0.002	0.003
			A0130442	ASSAY	TB19172689	169.00	170.00	1.00	0.001	0.003	0.001	0.004	0.003	0.003
			A0130444	ASSAY	TB19172689	170.00	171.00	1.00	0.008	0.003	0.001	0.004	0.009	0.004
			A0130445	ASSAY	TB19172689	171.00	172.00	1.00	0.043	0.016	0.001	0.004	0.009	0.003
			A0130446	ASSAY	TB19172689	172.00	173.00	1.00	0.001	0.003	0.001	0.004	0.005	0.004
			A0130447	ASSAY	TB19172689	173.00	174.00	1.00	0.001	0.003	0.001	0.004	0.004	0.003
			A0130448	ASSAY	TB19172689	174.00	175.00	1.00	0.001	0.003	0.001	0.004	0.003	0.003
			A0130449	ASSAY	TB19172689	175.00	175.80	0.80	0.001	0.003	0.001	0.004	0.002	0.003
			A0130450	ASSAY	TB19172689	175.80	176.67	0.87	0.002	0.003	0.001	0.005	0.002	0.003

From	To	Lithology
176.67	211.57	**GAB-Vt**

176.67 - 211.57m / Varitexture Gabbro
Green, fine- to coarse-grained, massive, varitextured gabbro.
20-30% feldspar, 70-80% altered pyroxene.
Moderate pervasive chl-act alt.
Trace disseminated Py>Cpy>>Po with local interval of 0.2% disseminated Py>>Cpy from 184.62-187.77m. Local patches of 10cm of f-m grained cubic pyrite.
Sharp upper and lower ctct with mafic dikes. Mafic dike found at ctct with tonalite from 210.8-211.57m.
Local minor shearing. Local felsic dikes cutting throughout.

Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
A0130451	ASSAY	TB19172689	176.67	177.32	0.65	0.006	0.003	0.006	0.016	0.024	0.005
A0130452	ASSAY	TB19172689	177.32	178.00	0.68	0.004	0.003	0.006	0.025	0.022	0.005
A0130453	ASSAY	TB19172689	178.00	179.00	1.00	0.122	0.080	0.007	0.010	0.017	0.003
A0130454	ASSAY	TB19172689	179.00	180.00	1.00	0.115	0.054	0.003	0.004	0.030	0.004
A0130455	ASSAY	TB19172689	180.00	181.00	1.00	0.161	0.079	0.009	0.011	0.031	0.004
A0130456	ASSAY	TB19172689	181.00	182.00	1.00	0.207	0.051	0.007	0.006	0.034	0.005
A0130457	ASSAY	TB19172689	182.00	183.00	1.00	0.154	0.041	0.004	0.004	0.030	0.004
A0130458	ASSAY	TB19172689	183.00	184.00	1.00	0.177	0.069	0.008	0.007	0.028	0.004
A0130459	ASSAY	TB19172689	184.00	185.00	1.00	0.190	0.059	0.047	0.034	0.028	0.005
A0130463	ASSAY	TB19172690	185.00	186.00	1.00	0.053	0.020	0.048	0.038	0.024	0.005
A0130464	ASSAY	TB19172690	186.00	187.00	1.00	0.165	0.047	0.019	0.012	0.042	0.005
A0130465	ASSAY	TB19172690	187.00	188.00	1.00	0.153	0.043	0.018	0.014	0.029	0.004
A0130466	ASSAY	TB19172690	188.00	189.00	1.00	0.050	0.030	0.012	0.012	0.033	0.004
A0130467	ASSAY	TB19172690	189.00	190.00	1.00	0.050	0.025	0.003	0.010	0.033	0.004
A0130468	ASSAY	TB19172690	190.00	191.00	1.00	0.055	0.016	0.004	0.011	0.033	0.004
A0130469	ASSAY	TB19172690	191.00	192.00	1.00	0.020	0.003	0.012	0.024	0.035	0.005
A0130470	ASSAY	TB19172690	192.00	193.00	1.00	0.047	0.017	0.004	0.007	0.026	0.005
A0130471	ASSAY	TB19172690	193.00	194.00	1.00	0.050	0.016	0.002	0.005	0.028	0.004
A0130472	ASSAY	TB19172690	194.00	195.00	1.00	0.068	0.012	0.003	0.005	0.027	0.005
A0130473	ASSAY	TB19172690	195.00	196.00	1.00	0.026	0.003	0.004	0.009	0.031	0.005
A0130474	ASSAY	TB19172690	196.00	197.00	1.00	0.003	0.003	0.002	0.006	0.027	0.005
A0130475	ASSAY	TB19172690	197.00	198.00	1.00	0.003	0.003	0.001	0.004	0.023	0.005
A0130476	ASSAY	TB19172690	198.00	199.00	1.00	0.001	0.003	0.001	0.004	0.022	0.005
A0130477	ASSAY	TB19172690	199.00	200.00	1.00	0.001	0.003	0.003	0.015	0.019	0.005
A0130478	ASSAY	TB19172690	200.00	201.00	1.00	0.004	0.003	0.001	0.008	0.023	0.005
A0130479	ASSAY	TB19172690	201.00	202.00	1.00	0.009	0.003	0.003	0.011	0.021	0.004
A0130480	ASSAY	TB19172690	202.00	203.00	1.00	0.137	0.038	0.015	0.056	0.057	0.007
A0130482	ASSAY	TB19172690	203.00	204.00	1.00	0.051	0.011	0.003	0.010	0.025	0.005
A0130483	ASSAY	TB19172690	204.00	205.00	1.00	0.008	0.007	0.001	0.002	0.028	0.005
A0130484	ASSAY	TB19172690	205.00	206.00	1.00	0.002	0.003	0.003	0.005	0.025	0.005
A0130485	ASSAY	TB19172690	206.00	207.00	1.00	0.001	0.003	0.001	0.005	0.023	0.005

From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
			A0130486	ASSAY	TB19172690	207.00	208.00	1.00	0.001	0.003	0.001	0.003	0.019	0.005
			A0130487	ASSAY	TB19172690	208.00	209.00	1.00	0.002	0.003	0.004	0.015	0.024	0.005
			A0130488	ASSAY	TB19172690	209.00	209.90	0.90	0.001	0.003	0.002	0.011	0.021	0.005
			A0130489	ASSAY	TB19172690	209.90	210.80	0.90	0.003	0.003	0.004	0.017	0.024	0.007
			A0130490	ASSAY	TB19172690	210.80	211.57	0.77	0.010	0.003	0.015	0.038	0.003	0.003
211.57	213.50	**TON** 211.57 - 213.50m / Tonalite White and black, medium-grained, foliated tonalite. Commonly cut by mafic dikes.	A0130491	ASSAY	TB19172690	211.57	212.57	1.00	0.001	0.003	0.001	0.004	0.003	0.001
			A0130492	ASSAY	TB19172690	212.57	213.50	0.93	0.003	0.003	0.011	0.025	0.003	0.001
213.50	215.61	**DIKE-Mafic** 213.5 - 215.61m / Mafic Dike Black, fine-grained, massive, weakly magnetic, mafic dike. Cut by late qtz veining. Common Epi and Na-alt stringers parallel to eachother and dike ctct. Trace pyrite stringers or disseminated.	A0130493	ASSAY	TB19172690	213.50	214.57	1.07	0.001	0.003	0.009	0.012	0.004	0.004
			A0130494	ASSAY	TB19172690	214.57	215.61	1.04	0.001	0.003	0.001	0.005	0.005	0.004
215.61	261.00	**TON** 215.61 - 261.0m / Tonalite White and black, medium-grained, foliated tonalite. Local patchy k-alt commonly associated with epidote stringers. Trace pyrite stringers or disseminated. Commonly cut by mafic dikes.	A0130495	ASSAY	TB19172690	215.61	216.32	0.71	0.001	0.003	0.001	0.002	0.001	0.001
			A0130496	ASSAY	TB19172690	216.32	217.00	0.68	0.001	0.003	0.001	0.002	0.001	0.001
			A0130497	ASSAY	TB19172690	217.00	218.00	1.00	0.001	0.003	0.001	0.001	0.000	0.000
			A0130498	ASSAY	TB19172690	218.00	219.00	1.00	0.001	0.003	0.001	0.003	0.001	0.001
			A0130499	ASSAY	TB19172690	219.00	220.00	1.00	0.002	0.003	0.001	0.005	0.001	0.001
			A0130500	ASSAY	TB19172690	220.00	221.00	1.00	0.011	0.003	0.001	0.002	0.033	0.004
			A0130502	ASSAY	TB19172690	221.00	222.00	1.00	0.002	0.003	0.001	0.001	0.011	0.002
			A0130503	ASSAY	TB19172690	222.00	223.00	1.00	0.001	0.003	0.001	0.003	0.004	0.002
			A0130504	ASSAY	TB19172690	223.00	224.00	1.00	0.001	0.003	0.001	0.001	0.000	0.001
261.00	268.36	**DIKE-Mafic** 261.0 - 268.3m / Mafic Dike Black, fine-grained, massive, mafic dike. Common carb and chl stringers +/- pyrite cutting throughout. Shallow TCA lower ctct with TON.												
268.36	277.95	**TON** Tonalite Trace local diss py.												

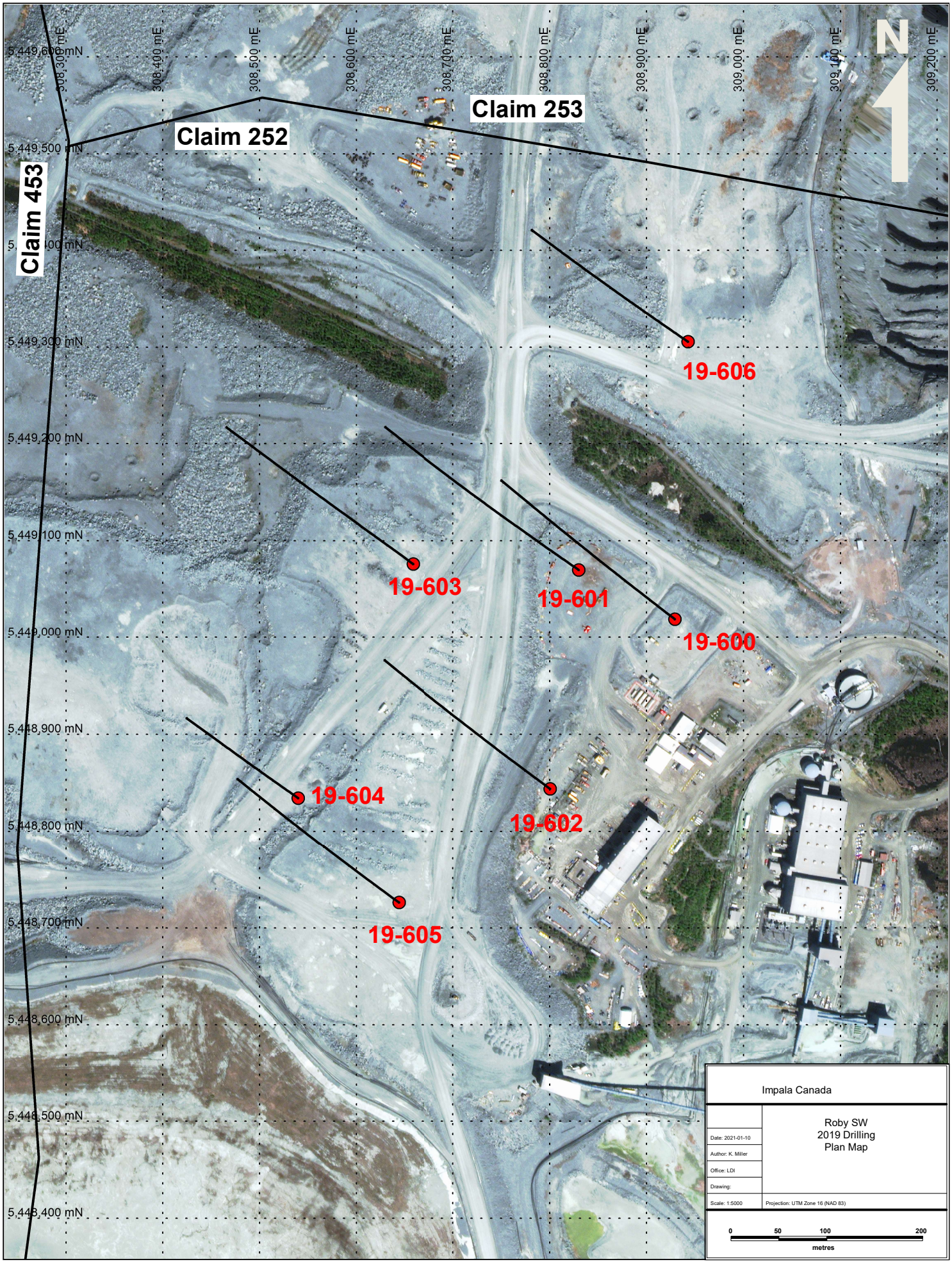
From	To	Lithology	Sample #	Sample Type	Lab #	From	To	Len	Pd ppm	Pt ppm	Au ppm	Cu %	Co %	Ni %
277.95	279.83	**DIKE-Mafic**												
Mafic Dyke trace local diss py														
279.83	285.00	**TON**												
Tonalite, 0.5% shallowTCA pyrite stringers/fracture filling.														
285.00	288.24	**DIKE-Mafic**												
Mafic Dyke fg, massive, black, carbonate fractures, wk chlorite, trace local diss py														
288.24	294.42	**TON**												
Tonalite, weak patchy Na- K- alt, local silica alteration, patches of fg disseminated pyrite.														
294.42	302.00	**DIKE-Mafic**												
Mafic Dyke fg, massive, .3-.5% pyrite stringers/fracture filling. shallow lower contact with patches of potassic altered tonalite.														

Survey Data

Depth	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	304.43	-49.90	UNCSPRNT	O	
5.00	304.27	-49.58	UNCSPRNT	O	
10.00	304.37	-49.70	UNCSPRNT	O	
15.00	304.35	-49.65	UNCSPRNT	O	
20.00	304.45	-49.62	UNCSPRNT	O	
25.00	304.56	-49.61	UNCSPRNT	O	
30.00	304.64	-49.59	UNCSPRNT	O	
35.00	304.64	-49.57	UNCSPRNT	O	
40.00	304.69	-49.55	UNCSPRNT	O	
45.00	304.65	-49.52	UNCSPRNT	O	
50.00	304.61	-49.55	UNCSPRNT	O	
55.00	304.73	-49.52	UNCSPRNT	O	
60.00	304.85	-49.48	UNCSPRNT	O	
65.00	304.86	-49.40	UNCSPRNT	O	
70.00	304.91	-49.38	UNCSPRNT	O	
75.00	304.94	-49.37	UNCSPRNT	O	
80.00	304.92	-49.34	UNCSPRNT	O	
85.00	305.02	-49.27	UNCSPRNT	O	
90.00	305.05	-49.29	UNCSPRNT	O	
95.00	304.93	-49.32	UNCSPRNT	O	
100.00	305.03	-49.34	UNCSPRNT	O	
105.00	305.11	-49.28	UNCSPRNT	O	
110.00	305.06	-49.27	UNCSPRNT	O	
115.00	305.15	-49.30	UNCSPRNT	O	
120.00	305.18	-49.28	UNCSPRNT	O	
125.00	305.25	-49.28	UNCSPRNT	O	
130.00	305.42	-49.24	UNCSPRNT	O	
135.00	305.44	-49.23	UNCSPRNT	O	
140.00	305.41	-49.20	UNCSPRNT	O	
145.00	305.60	-49.16	UNCSPRNT	O	
150.00	305.55	-49.11	UNCSPRNT	O	
155.00	305.62	-49.07	UNCSPRNT	O	
160.00	305.63	-49.05	UNCSPRNT	O	
165.00	305.68	-49.03	UNCSPRNT	O	
170.00	305.70	-48.95	UNCSPRNT	O	
175.00	305.82	-48.92	UNCSPRNT	O	
180.00	305.85	-48.91	UNCSPRNT	O	

185.00	305.89	-48.87	UNCSPRNT	O
190.00	305.95	-48.84	UNCSPRNT	O
195.00	306.05	-48.83	UNCSPRNT	O
200.00	306.08	-48.78	UNCSPRNT	O
205.00	306.06	-48.75	UNCSPRNT	O
210.00	306.18	-48.72	UNCSPRNT	O
215.00	306.18	-48.67	UNCSPRNT	O
220.00	306.29	-48.63	UNCSPRNT	O
225.00	306.32	-48.58	UNCSPRNT	O
230.00	306.32	-48.51	UNCSPRNT	O
235.00	306.34	-48.40	UNCSPRNT	O
240.00	306.36	-48.34	UNCSPRNT	O
245.00	306.50	-48.31	UNCSPRNT	O
250.00	306.48	-48.23	UNCSPRNT	O
255.00	306.54	-48.19	UNCSPRNT	O
260.00	306.59	-48.15	UNCSPRNT	O
265.00	306.56	-48.22	UNCSPRNT	O
270.00	306.56	-48.11	UNCSPRNT	O
275.00	306.54	-48.08	UNCSPRNT	O
280.00	306.61	-48.06	UNCSPRNT	O

Appendix C: Drill plan and cross section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Claim 252
Claim 253
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19-603
19-601
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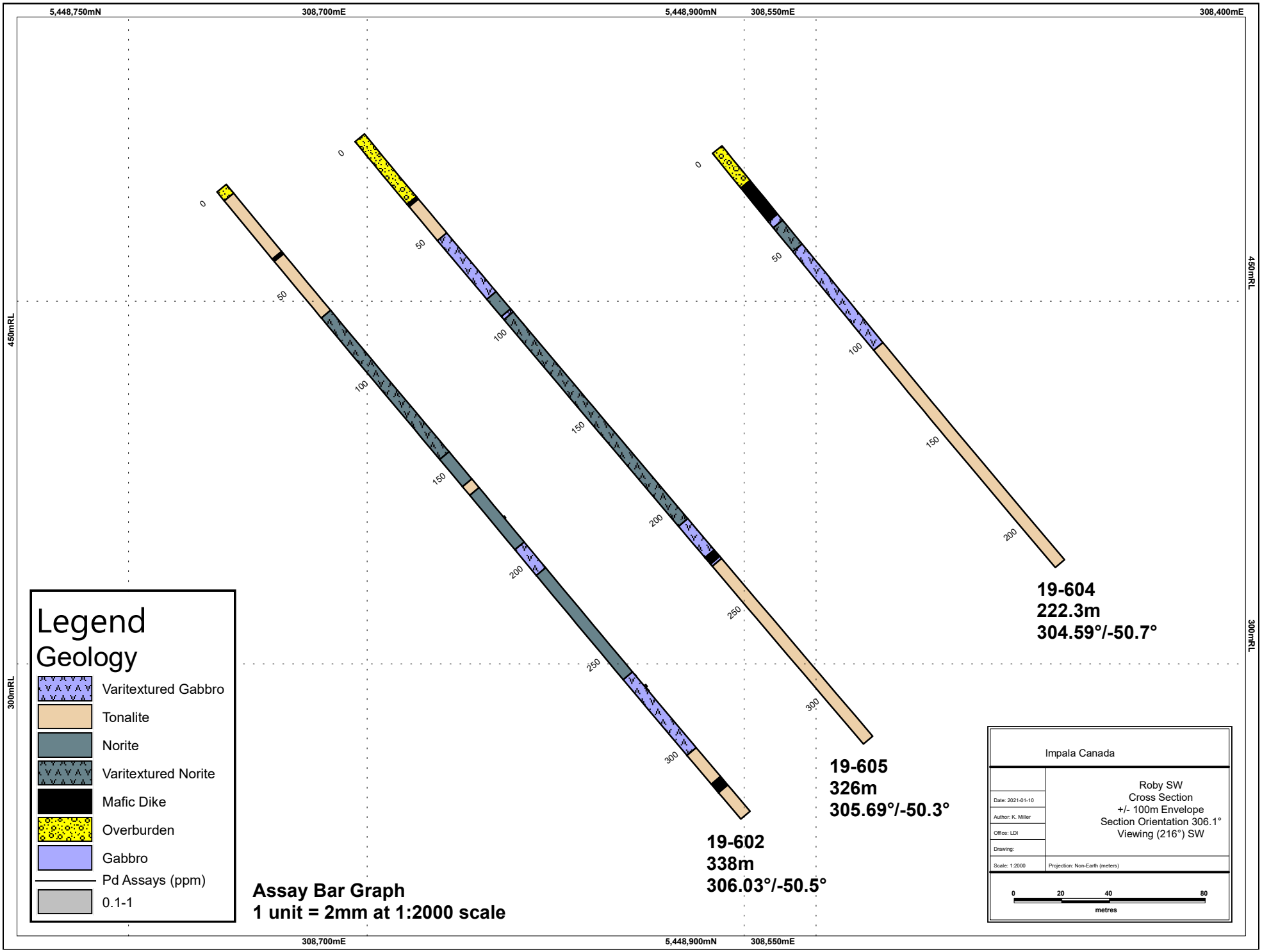
5,448,600 mN
5,448,500 mN
5,448,400 mN
Impala Canada
Roby SW
2019 Drilling
Plan Map
Date: 2021-01-10
Author: K. Miller
Office: LDI
Drawing:
Scale: 1:5000
Projection: UTM Zone 16 (NAD 83)
0
50
100
200
metres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300mRL
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50
100
150
200
250
300
19-604
222.3m
304.59°/-50.7°
19-605
326m
305.69°/-50.3°
19-602
338m
306.03°/-50.5°
Legend
Geology
Varitextured Gabbro
Tonalite
Norite
Varitextured Norite
Mafic Dike
Overburden
Gabbro
Pd Assays (ppm)
0.1-1
Assay Bar Graph
1 unit = 2mm at 1:2000 scale
Impala Canada
Roby SW
Cross Section
+/- 100m Envelope
Section Orientation 306.1°
Viewing (216°) SW
Date: 2021-01-10
Author: K. Miller
Office: LDI
Drawing:
Scale: 1:2000
Projection: Non-Earth (meters)
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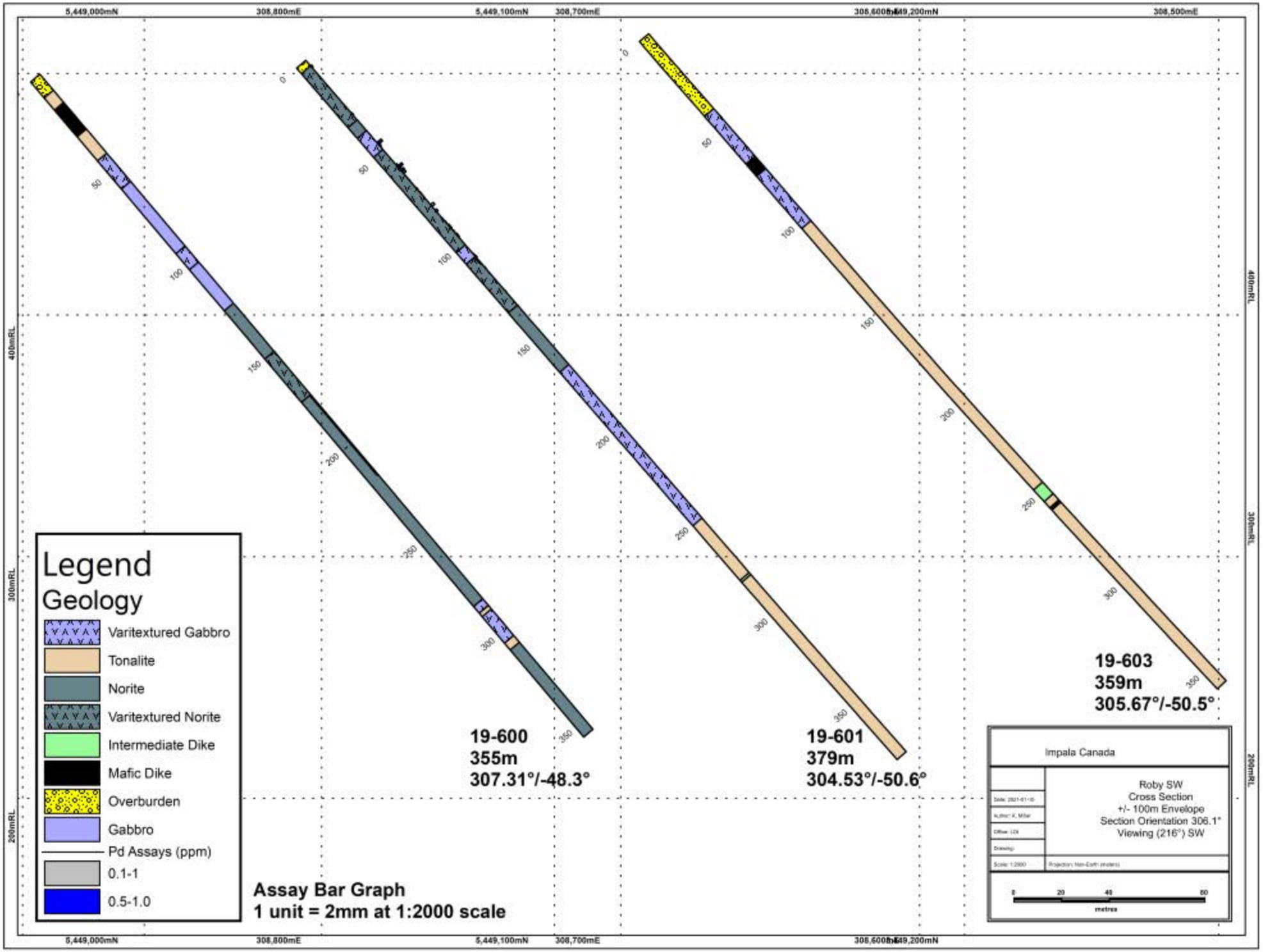
20
40
80
metres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300mRL
200mRL
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100
150
200
250
300
350
19-600
355m
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19-601
379m
304.53°/-50.6°
19-603
359m
305.67°/-50.5°
Legend
Geology
Varitextured Gabbro
Tonalite
Norite
Varitextured Norite
Intermediate Dike
Mafic Dike
Overburden
Gabbro
Pd Assays (ppm)
0.1-1
0.5-1.0
Assay Bar Graph
1 unit = 2mm at 1:2000 scale
Impala Canada
Roby SW
Cross Section
+/- 100m Envelope
Section Orientation 306.1°
Viewing (216°) SW
Date: 2021-01-10
Author: K. Miller
Drawing:
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Projection: Non-Earth (meters)
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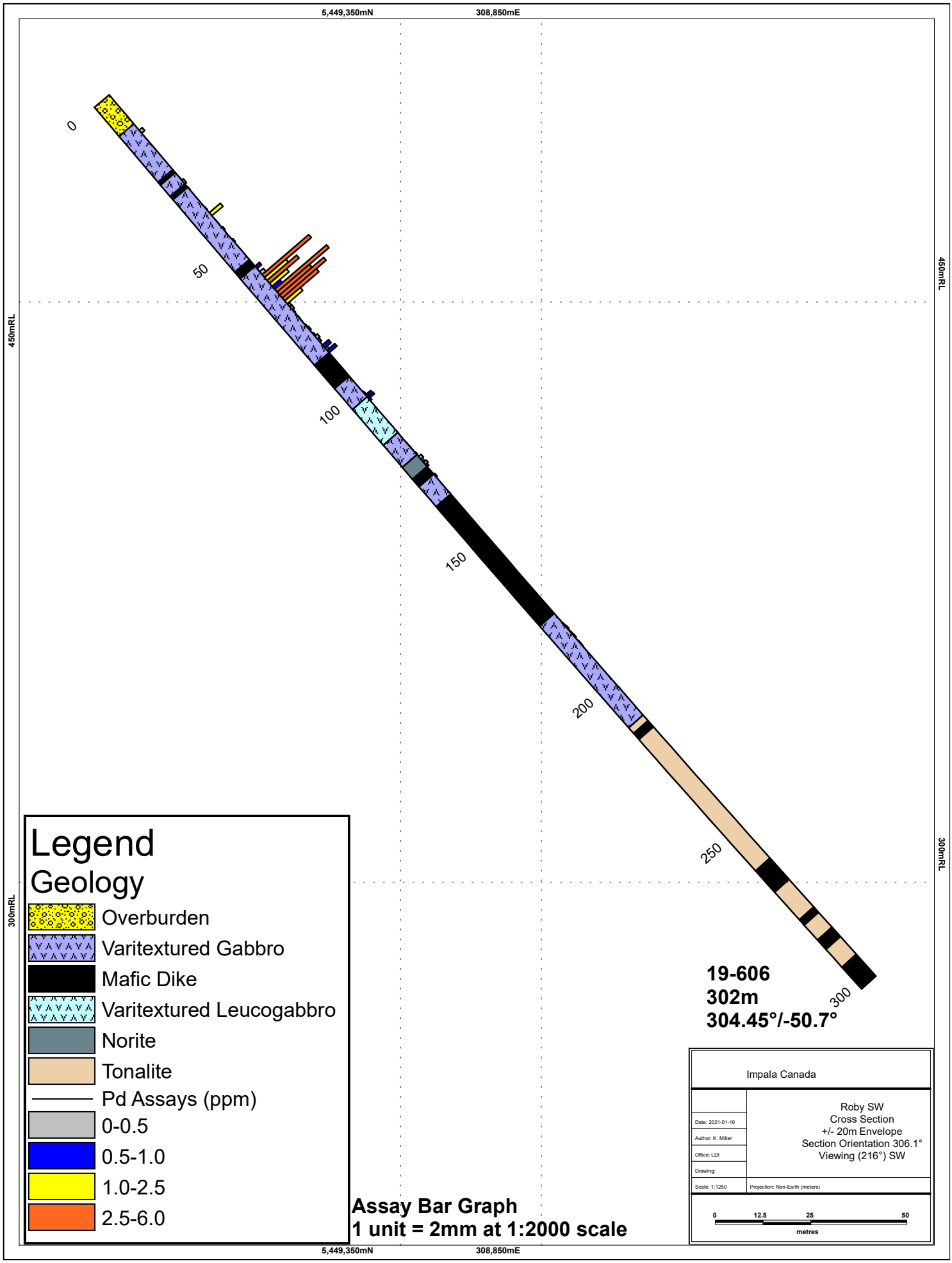
metres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Legend
Geology
Overburden
Varitextured Gabbro
Mafic Dike
Varitextured Leucogabbro
Norite
Tonalite
Pd Assays (ppm)
0-0.5
0.5-1.0
1.0-2.5
2.5-6.0
Assay Bar Graph
1 unit = 2mm at 1:2000 scale
Impala Canada
Roby SW
Cross Section
+/- 20m Envelope
Section Orientation 306.1°
Viewing (216°) SW
Date: 2021-01-10
Author: K. Miller
Office: LDI
Drawing:
Scale: 1:1250
Projection: Non-Earth (meters)
0
12.5
25
50
metres

Appendix D: Assay Certificates

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

To: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 23-MAY-2019
Account: MZI

CERTIFICATE TB19114120

Project: 18-101

P.O. No.: 182449

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-MAY-2019.

The following have access to data associated with this certificate:

KAITLYN CHOVANCAK DAVE PECK	DENIS DECHARTE LDIM WEBTRIEVE	CLAIRE MCGUINNESS

SAMPLE PREPARATION

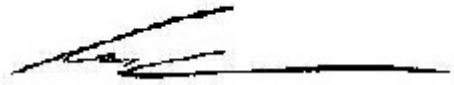
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
SPL-21	Split sample - riffle splitter
PUL-35	Pulv 250 g Split to 95%<106 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-ICP61	33 element four acid 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: 

Colin Ramshaw, Vancouver Laboratory Manager

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

To: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 23-MAY-2019
Account: MZI

Project: 18-101

CERTIFICATE OF ANALYSIS TB19114120

Sample Description	Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Cu-OG62	Ni-OG62
	Analyte	Recvd Wt.	Au	Pd	Pt	Cu	Ni	Co	Mg	Ag	Cu	Ni
	Units	kg	ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	1	1	5	1	1	1	0.01	0.5	10	10
A0149369		1.19	2	<1	<5	1	2	<1	13.05	<0.5		
A0149370		0.07	5220	1960	1285	89	86	62	0.26	0.9		
A0149371		2.25	8	27	10	153	227	59	4.68	<0.5		
A0149372		2.14	6	21	8	180	232	58	4.69	<0.5		
A0149373		2.12	7	24	12	172	243	55	4.92	<0.5		
A0149374		2.10	76	480	170	587	627	67	5.95	<0.5		
A0149375		2.29	8	25	8	125	202	57	4.36	<0.5		
A0149376		2.12	14	71	35	185	364	66	6.31	<0.5		
A0149377		1.81	36	308	107	427	565	68	6.21	<0.5		
A0149378		2.30	16	79	38	161	410	61	6.59	<0.5		
A0149379		2.36	22	106	43	185	401	58	6.40	<0.5		
A0149380		2.07	14	75	36	131	466	71	8.65	<0.5		
A0149381		1.96	34	148	56	292	509	66	7.65	<0.5		
A0149382		2.05	13	58	33	142	393	61	6.72	<0.5		
A0149383		2.08	57	183	99	461	670	72	7.83	<0.5		
A0149384		1.85	69	136	60	699	738	60	5.91	<0.5		
A0149385		2.02	114	243	100	714	747	59	5.63	<0.5		
A0149386		2.07	114	241	99	1090	1030	69	6.21	<0.5		
A0149387		2.11	21	60	33	313	478	57	5.80	<0.5		
A0149388		2.23	83	202	74	908	884	71	6.24	<0.5		
A0149389		0.07	71	608	293	4570	4410	118	3.93	1.7		
A0149390		2.15	40	106	57	560	575	53	5.09	<0.5		
A0149391		2.13	138	251	141	1640	1235	77	6.04	0.5		
A0149392		2.18	230	211	103	1300	1015	75	6.16	0.5		
A0149393		2.07	53	107	50	400	461	52	5.09	<0.5		
A0149394		2.46	46	124	58	365	496	57	5.41	<0.5		
A0149395		2.53	31	66	58	306	539	77	8.08	<0.5		
A0149396		2.47	43	113	91	365	714	94	11.15	<0.5		
A0149397		2.29	49	131	71	537	646	68	6.64	<0.5		
A0149398		2.14	20	29	15	305	341	49	4.78	<0.5		
A0149399		2.28	14	6	6	175	283	46	5.06	<0.5		
A0149400		2.15	19	41	20	276	364	51	5.13	<0.5		
A0149401		2.40	8	13	<5	152	307	47	5.19	<0.5		
A0149402		3.02	63	177	53	688	746	59	5.01	<0.5		
A0149403		1.63	60	237	61	824	691	60	5.17	<0.5		
A0149404		2.30	30	77	36	340	436	59	5.96	<0.5		
A0149405		2.33	54	134	61	604	606	53	5.21	<0.5		
A0149406		2.17	25	31	18	378	456	50	5.42	<0.5		
A0149407		2.25	36	131	74	376	520	54	5.45	<0.5		
A0149408		2.35	18	35	11	244	347	49	4.87	<0.5		

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

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To: **LAC DES ILES MINES LTD. (NAP)**
556 TENTH AVE
THUNDER BAY ON P7B 2R2

Finalized Date: 23-MAY-2019
Account: MZI

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CERTIFICATE OF ANALYSIS TB19114120

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppb 1	PGM-ICP23 Pd ppb 1	PGM-ICP23 Pt ppb 5	ME-ICP61 Cu ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 Co ppm 1	ME-ICP61 Mg % 0.01	ME-ICP61 Ag ppm 0.5	Cu-OG62 Cu ppm 10	Ni-OG62 Ni ppm 10
A0149409		1.24	6	<1	<5	1	3	<1	13.40	<0.5		
A0149410		2.32	58	157	55	726	664	58	5.60	<0.5		
A0149411		2.26	47	84	31	792	779	62	5.51	<0.5		
A0149412		2.41	79	91	41	1190	809	67	5.23	<0.5		
A0149413		2.22	40	52	31	548	489	52	5.02	<0.5		
A0149414		2.25	35	63	44	452	503	47	4.58	<0.5		
A0149415		2.38	24	35	28	221	373	48	4.93	<0.5		
A0149416		2.19	25	34	15	296	390	51	4.94	<0.5		
A0149417		2.40	20	16	9	311	408	55	4.95	<0.5		
A0149418		2.24	14	8	7	167	304	48	4.83	<0.5		
A0149419		2.37	19	41	29	217	345	48	4.72	<0.5		
A0149420		2.38	16	38	23	212	346	52	5.43	<0.5		
A0149421		2.15	22	54	44	250	361	47	5.07	<0.5		
A0149422		2.25	20	90	52	205	364	50	5.58	<0.5		
A0149423		2.20	57	163	117	511	557	52	4.70	<0.5		
A0149424		2.28	20	49	39	173	366	51	5.55	<0.5		
A0149425		2.29	18	71	57	192	424	58	6.52	<0.5		
A0149426		2.43	14	42	38	128	337	48	5.75	<0.5		
A0149427		2.31	22	68	52	215	462	64	7.06	<0.5		
A0149428		2.32	23	55	38	218	355	47	5.20	<0.5		
A0149429		0.08	258	3360	778	>10000	>10000	977	3.97	3.9	16550	46400
A0149430		2.32	23	81	45	232	418	57	6.20	<0.5		
A0149431		2.32	27	109	78	291	537	71	8.07	<0.5		
A0149432		2.38	46	146	83	308	475	66	7.03	<0.5		
A0149433		2.30	23	17	23	136	370	56	6.30	<0.5		
A0149434		2.45	113	98	108	558	635	58	5.82	<0.5		
A0149435		2.18	25	14	23	157	384	52	5.86	<0.5		
A0149436		2.26	87	97	103	404	626	61	6.31	<0.5		
A0149437		2.27	37	45	48	261	512	62	6.76	<0.5		
A0149438		2.56	24	15	21	172	423	59	6.78	<0.5		
A0149439		2.23	71	68	70	387	595	62	6.43	<0.5		
A0149440		2.31	63	52	49	320	524	59	6.54	<0.5		
A0149441		2.36	50	49	53	289	515	57	6.45	<0.5		
A0149442		2.37	69	77	76	379	552	57	5.90	<0.5		
A0149443		2.43	21	16	22	155	366	58	6.24	<0.5		
A0149444		2.23	19	14	21	123	351	52	6.31	<0.5		
A0149445		2.59	17	14	23	119	328	52	5.86	<0.5		
A0149446		0.07	70	601	319	4440	4330	114	3.89	1.8		

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CERTIFICATE OF ANALYSIS TB19114120

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU-32	CRU-QC	LOG-21	LOG-23
	PUL-35	PUL-QC	SPL-21	WEI-21

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

Applies to Method:				
	Cu-OG62	ME-ICP61	ME-OG62	Ni-OG62
	PGM-ICP23			

Appendix E: Rock Codes

Lithology Code	Rock Name	Mineral Code	Mineral Name	Alteration Code	Alteration Name
ANOR	Anorthosite	**Bio/Bt**	Biotite	**Act**	Actinolite
DIKE	Dike	**Cpx**	Clinopyroxene	**Cal**	Calcite
EGAB	Equigranular Gabbro	**Cpy/Cp/Ccp**	Chalcopyrite	**Carb**	Carbonate
GAB	Gabbro	**Mt/Mag**	Magnetite	**Chl**	Chlorite
GAB-Bx/GABBX	Brecciated Gabbro	**Ol**	Olivine	**Ep**	Epidote
GABMG	Medium-grained Gabbro	**Opx**	Orthopyroxene	**Fe**	Iron
GAB-Vt/GABVT	Varitextured Gabbro	**Plag/Plg**	Plagioclase	**Hem**	Hematite
GBNR	Gabbronorite	**Po/Pyrr**	Pyrrhotite	**K**	Potassium
LC	Lost Core	**Py/Pyr**	Pyrite	**Na**	Sodium
LGAB	Leucogabbro	**Pyx/Pxn**	Pyroxene	**Ox**	Oxide
MBI	Mine Block Intrusion	**Qtz**	Quartz	**Sel**	Selective
MNOR	Melanorite			**Serp**	Serpentine
NLDI	North Lac des Iles			**Sil**	Silica
NOR	Norite			**Spv**	Semi-pervasive
NOR-Vt	Varitextured Norite			**Trem**	Tremolite
OB	Overburden				
PER	Peridotite				
PYXT	Pyroxenite				
QDIOR	Quartz Diorite				
TON	Tonalite				
WEB	Websterite				

Mineralization Style	Mineralization Style Name	Structure Style	Structure Style Name
Bl	Blebby	**Aph**	Aphanitic
Cg	Coarse-grained	**Bx**	Brecciated
Diss	Disseminated	**Cnt**	Contact
Fc	Fracture Controlled	**Dtca**	Degrees to core axis
Ff	Fracture filling	**Fol**	Foliation
Fg	Fine-grained	**Lc/Lct**	Lower contact
Int	Interstitial	**Peg**	Pegmatitic
Mg	Medium-grained	**Sbpl**	Subparallel
Min	Mineralization	**Uc/Uct**	Upper contact
Mod	Moderate	**Ve**	Vein
Pheno	Phenocryst	**Vl/vlnt**	Veinlet
Slvg	Selvage	**Vt**	Varitextured
Tr	Trace	**Xcut**	Crosscut
Vc	Vein controlled		
Vcg	Very coarse-grained		
Vfg	Very fine-grained		
Vh	Vein hosted		
Wk	Weak		