

We are committed to providing [accessible customer service](#).

If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).

Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).



**2018 & 2019 DIAMOND DRILLING REPORT  
HAMBLETON GRID  
DAYOHESARAH LAKE AREA  
WHITE RIVER, ONTARIO**

**NTS 42C/ 10, 11, 14 and 15**

**Latitude 48°48' N, Longitude 85°10' W**

**Dates Work Performed  
October 18th 2018 to September 30th, 2019**

**for**

**Harte Gold Corporation  
8 King Street East  
Suite 1700  
Toronto, Ontario  
M5C 1B5**

**Andrew Wehrfritz, M.Sc  
David B. Stevenson, M.Sc., P.Geo.**

**September 30, 2019**

## TABLE OF CONTENTS

1.0	Introduction .....	1
2.0	Property Location and Description.....	2
2.1	Location and Access.....	2
2.2	Description of Mining Claims.....	3
2.3	Physiography and Vegetation .....	3
3.0	Historical Work .....	4
4.0	Geological Setting .....	11
4.1	Regional Geology .....	11
4.2	Property Geology .....	13
5.0	Mineralization .....	16
5.1	Sugar Zone.....	16
5.2	Wolf Zone .....	16
6.0	2018 and 2019 Diamond Drilling .....	17
6.1	Sample Collection, Preparation, Analyses and Security.....	17
6.2	Laboratory Methods .....	18
6.3	2018 and 2019 Drilling .....	21
6.4	Results.....	22
7.0	Conclusions and Recommendations .....	22
8.0	Costs.....	22
9.0	References.....	30
10.0	Statement of Qualifications.....	31

## LIST OF FIGURES

Figure 1 - Property Location.....	2
Figure 2 - Claim Position and Showings.....	4
Figure 3 - Regional Geology .....	12
Figure 4 - Property Geology .....	15

## LIST OF TABLES

Table 1 – Hambleton Grid- Summary of Costs.....	22
Table 2 – Hambleton Grid - Cost per Claim.....	23
Table 3 – Hambleton Grid - DDH Program Cost Summary.....	24
Table 4 – Hambleton Grid - Analytical Cost Summary.....	28

## APPENDICES

Appendix A – Property Claims List

Appendix B – Drill Hole Logs

Appendix C – Drill Hole Cross Sections

Appendix D – Drill Hole Plans

Appendix E – Actlabs Assay Certificates

Appendix F – Actlabs Invoices

Appendix G – Chibougamau Diamond Drilling Ltd. Invoices



## **Executive Summary**

Between October 18<sup>th</sup>, 2018 to November 01<sup>st</sup>, 2018 and February 21<sup>st</sup>, 2019 to April 16<sup>th</sup>, 2019 Harte Gold Corporation performed a 16-hole, 6107.88-meter diamond drill program at the Hambleton Grid. This grid is located on the Dayohessarah Lake property (“the Property”) which is located in the Dayohessarah Lake area, north of White River, Ontario. Two drill rigs (HC-150-16 and HC-150-19) were supplied by Chibougamau Diamond Drilling Ltd to perform drilling for all 16 holes.

The Hambleton Grid area is located along the southwestern edge of Hambleton lake; approximately 4km northwest of the Sugar Zone Mine Site. The intent of the 2018 portion of the drill program was to drill test IP and magnetic anomalies in the area. The intent of the 2019 program was to further investigate these IP and magnetic anomalies as well as follow up on anomalous Au values from a previously conducted soil sampling survey.

A total of \$693,289 was spent on this drill program which included cost such as drilling, assay and salaries, etc. The average cost per meter was \$113.51.

The Property is located in the Dayohessarah Greenstone Belt (“DGB”). This greenstone belt is part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton. The DGB is situated between two larger greenstone belts; the Hemlo Greenstone Belt to the west and the Kabinakagami Greenstone Belt to the east. The DGB has an active history of exploration dating back to 1969 when Canex Aerial Exploration Ltd. drilled three holes on the Property. Exploration ramped up after the discovery of Hemlo, when Pezamerica Resources commenced geophysics and drilling.

In 1998, Harte Gold Corp. entered into an option agreement on most of the unpatented mining claims comprising the Dayohessarah Lake Property, including the Sugar Zone. Harte subsequently entered into a Joint Venture agreement with Corona Gold Corporation.

### **1.0 Introduction**

The Hambleton Grid is located along the southwestern edge of Hambleton lake; approximately 4km northwest of the Sugar Zone Mine Site. The Hambleton Grid is one of several targeted drill areas identified on Harte Gold’s Dayohessarah Lake property (“the Property”). The property is located in the Dayohessarah Greenstone Belt (“DGB”). This greenstone belt is part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton.

This report will summarize and discuss the results of the diamond drill program conducted between October 18<sup>th</sup>, 2018 to November 1<sup>st</sup>, 2018 and February 21<sup>st</sup>, 2019 to April 16<sup>th</sup>, 2019 by Harte Gold Corp. on the Dayohessarah Lake Property. The drill report was written from September 27<sup>th</sup> to September 30<sup>th</sup>, 2019.

All Hambleton Grid holes were drilled on claims permitted by Exploration Permits PR-17-11055 and PR-18-000297.

All UTM coordinates are in NAD 83, Zone 16U projection.

## 2.0 Property Location and Description

### 2.1 Location and Access

The Dayohessarah Lake Property is situated approximately 25 km northeast of the Town of White River (Trans-Canada Highway No. 17) and 60 km east of the Hemlo gold camp. The Property is approximately equidistant from Sault Ste. Marie to the south-east and Thunder Bay to the west (Figure 1). The overall Property encompasses NTS zones 42C/ 10, 11, 14 and 15 and the gold mineralized occurrences are exposed at Latitude 48°48' north, Longitude 85°10' west. The property covers parts of the Odium, Strickland, Gourlay, Tedder, Hambleton, Cooper, Nameigos, Abraham and Bayfield Townships, and falls within the Sault Ste. Marie Mining Division.

The Property can be accessed via a series of logging roads and drill trails extending north from the community of White River. Access is also available by way of float plane, based in White River via Dayohessarah Lake or Hambleton Lake, and by helicopter based in Wawa or Marathon.

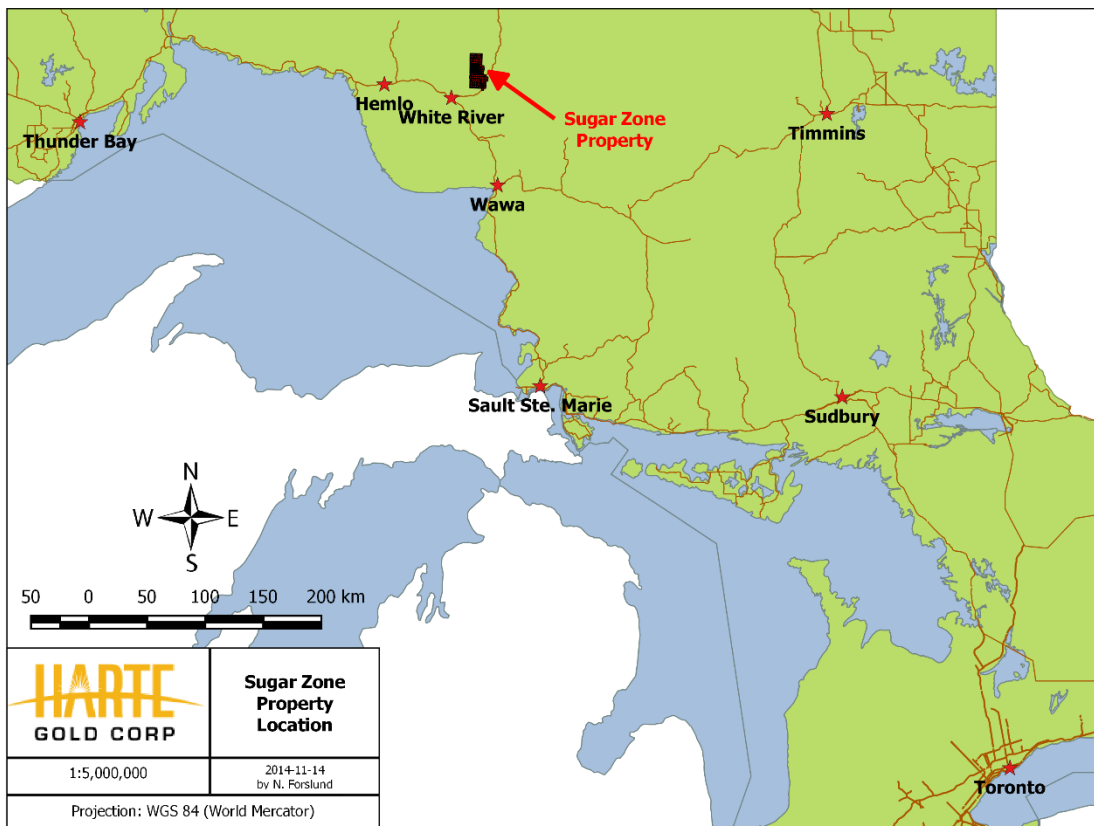


Figure 1 - Property Location

The western and southern portions of the Property are accessible via a series of logging roads controlled by White River Forest Products Limited. Road No. 100 extends north from the western end of White River. Road No. 200 intersects Road No. 100 approximately 20 km from Highway 17 and provides access to the western and southern portions of the property. Road No. 300 intersects Road No. 100 approximately 36 km from Highway 17 and provides access to the very

northern portion of the Property. Road No. 305 intersects Road No. 300 approximately 6 km from Road No. 100 and provides access to northern and eastern parts of the Property. Road access to within 400 m of the Sugar Zone is available via a small road heading south and southwest from Road No. 305 for 8.8 km. From there, access to the Sugar Zone is available via all-terrain or tracked vehicles in the summer, and snowmobiles, tracked vehicles and trucks in the winter. The distance from White River to the Sugar Zone is approximately 60 km by road.

Areas surrounding Dayohessarah, Hambleton, Strickland and Pike Lakes are designated by the Ontario Ministry of Natural Resources as 'Restricted Access'. Locked gates on Road No. 200 and Road No. 305 control vehicular access in order to prevent access to remote lodge operations on two lakes. Permits are required for road access to most of the Sugar Zone property for mineral exploration purposes.

## **2.2 Description of Mining Claims**

The Dayohessarah Lake Property consists of four mining leases comprising 1467.26 hectares, including 69 boundary cell claims, 43 single cell claims, 197 multi-cell claims. Harte Gold also has an option to earn a 100% interest in the Halverson Property subject to certain terms and conditions. The Halverson Property consist of 12 boundary cell claims and 4 single cell claims. (Appendix A). All claims of the Dayohessarah Lake Property are held in the name of Harte Gold Corp., except for those of the Halverson Property which are held in the name of Lloyd Joseph Halverson and are subject to an option agreement. The Property boundaries, claim lines, and location of the Hambleton Grid are shown in Figure 2.

There are two mining alienations which border parts of Harte's current claim block. The largest (W-LL-C1521) lies to the east of the current claim area and shortly borders claim 4260617 on the east, and Hwy 631 on the west. The second alienation (No. 2847) lies completely within Harte's current claim block, west of Dayohessarah Lake. Surface rights are held by the Crown and timber cutting rights are held by White River Forest Products Ltd.

In 1998, Harte Gold Corp. (Harte) entered into an option agreement on most of the unpatented mining claims comprising the Dayohessarah Lake Property, including the Sugar Zone. Harte Subsequently entered into a Joint Venture agreement with Corona Gold Corp.

The original claims are subject to a 3.5% net smelter royalty ("NSR"). The Joint Venture participants, namely Corona (51%) and Harte (49%), have the option of acquiring 1.5% of the 3.5% NSR for \$1.5 million, in proportion to their respective interest and have, in addition, the right of first refusal on the remaining 2.0% NSR.

Harte and Corona entered into an Option Agreement (the "Corona Option") dated May 28, 2010, entitling Harte to acquire Corona's 51% interest in the Sugar Zone Joint Venture upon completion of certain conditions. Effective March 10, 2010, Harte became the Operator of the Sugar Zone Joint Venture for as long as the Corona Option remained in good standing. Harte completed all required conditions and as of May 23, 2012 acquired Corona's 51% interest to become the 100% owner and operator of all of the claims which were previously part of the Sugar Zone Joint Venture.

## **2.3 Physiography and Vegetation**

The climate is northern boreal, with short hot summers and cold, snowy winters. Some field operations, such as drilling, can be carried out year-round while other operations, such as

prospecting and mapping, can only be carried out during the late spring, summer and early autumn months.

The temperatures can range from -35°C in the winter to +30°C in the summer; though the mean temperatures are around -20°C to +20°C. Rainfall is about 727 mm annual average, with the wettest month being September (120 mm average). Snow is abundant, often reaching several metres with December and January having the heaviest snowfall (about 80 cm). Snow is on the ground by late October and the ice begins to thaw on the lakes by April.

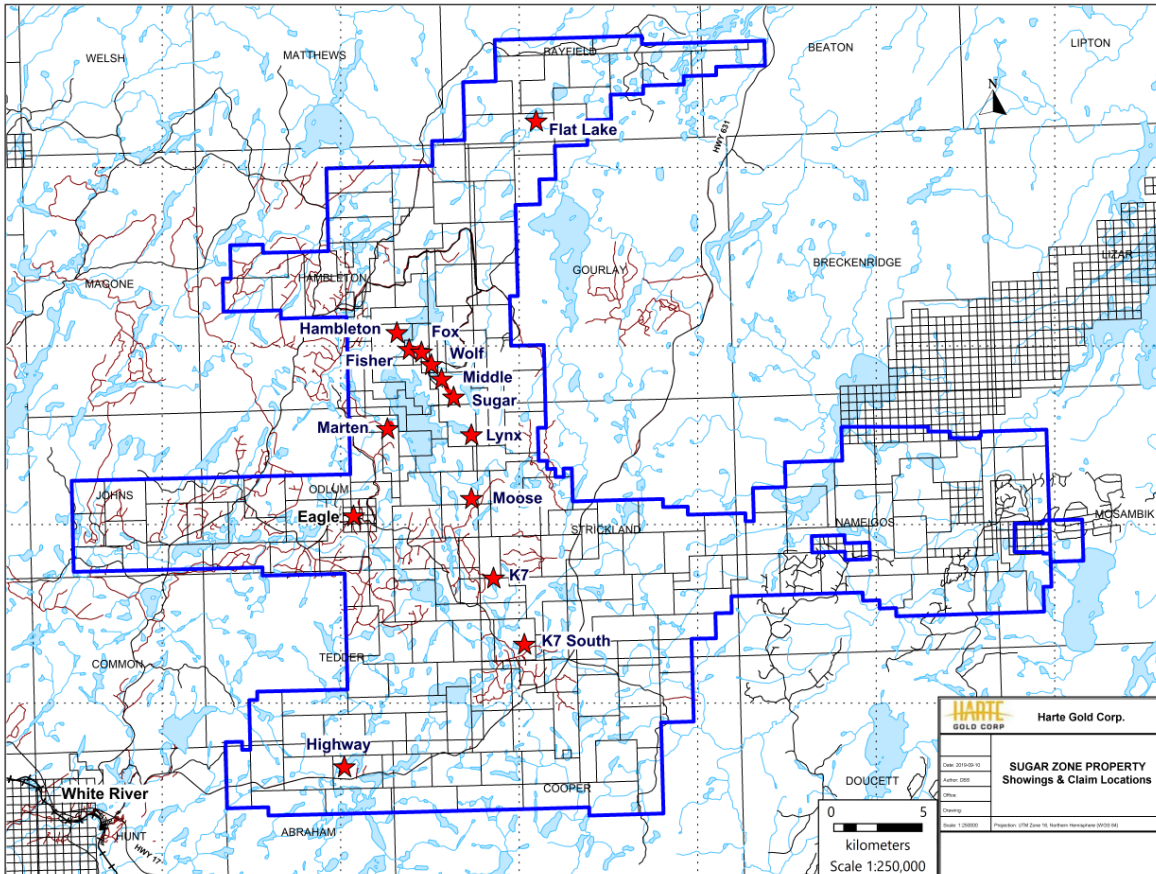


Figure 2 - Claim Position and Showings

The topography on the Property varies from moderate to rugged, with lake levels generally at 390 m above sea level, and occasional hills up to 480 m elevation. The overburden is generally between 0 to 20 m deep on the Property, with occasional boulder terrain, and normally approximately 2 to 3 m overlying the Sugar Zone. Vegetation is boreal, with jack pine, fir, poplar and birch occupying dry uplands and cedar, tamarack and spruce growth on more poorly drained terrain.

### 3.0 Historical Work

Exploration for gold and base metals has been conducted on the Dayohessarah property since 1969. After over 10 years of very little work, exploration started to pick up on the property again

in 1983, after the discovery of the Hemlo Gold camp. A complete timeline of mineral exploration on the DGB is presented below.

**1969** Canex Aerial Exploration Ltd. drilled three diamond drill holes in the vicinity of the mafic/ultramafic intrusives and flows near the north end of Dayohessarah Lake. Results include an intersection of 0.326% Ni and 0.08% Cu over 5 ft. in metagabbroic rocks.

**1983-1986** Pezamerica Resources Limited conducted an exploration program which included an airborne Mag and EM survey that outlined thirty-one (31) geophysical anomalies in the area. Twenty-four (24) of these anomalies were investigated by Teck Exploration on behalf of Pezamerica. Teck Exploration drilled nine airborne geophysical targets based on coincidental soil gold anomaly trends. In all cases, the airborne anomalies were explained by pyrite/pyrrhotite rich horizons within felsic volcanics. Hole PZ-6 returned appreciable amounts of sphalerite mineralization (0.47% Zn over 2.8 feet). None of the assayed core returned significant gold values.

**1990** Most of the DGB is staked by a prospecting syndicate.

**1991** The Property is optioned from the prospectors by Hemlo Gold Mines Inc. Initial prospecting uncovered the gold-bearing Sugar Zone deposit. Based on bedrock exposure and trenching, the Sugar Zone was traced for 750 m, and a ground IP survey outlined the Sugar Zone structure extending for 1,500 meters.

**1993** Hemlo Gold conducted a preliminary diamond drill program to test the Sugar Zone for economic gold mineralization. A grid was cut with a 6-km baseline and tie-lines ranging in spacing between 100 m and 1,000 m. Six diamond drill holes were completed totaling 800 m. All drill holes intersected significant gold mineralization in the Sugar Zone. A small trenching program is initiated on the Sugar Zone.

**1994** Hemlo Gold proceeds with initial geological mapping, prospecting and a follow-up drill program. Fifteen diamond drill holes are completed on the Property, totaling 2,416 m. Eight of the drill holes intersected the Sugar Zone. An I.P. survey is completed over the southern portion of the Property, and a Mag survey is completed over the entire grid. After the exploration program, the Property was returned to the prospecting syndicate who initially staked the ground, due to legal reasons.

**1998-1999** Most of the Property is optioned from the prospector's syndicate. The mining claims were subject to a Joint Venture agreement between Corona Gold Corporation (51%) and Harte Gold Corp. (49%). Corona was the operator. The initial 313 claims are subject to a 3.5% net smelter royalty ("NSR"), and the Joint Venture participants have the option to acquire 1.5% of the 3.5% NSR for \$1.5 million, and have the right of first refusal on the remaining 2.0% NSR.

Corona carries out an extensive exploration program. The existing grid was rehabilitated and new grid lines established east of Dayohessarah Lake. In total, 96.1 km of grid lines with 100 m spacing oriented at 320° azimuth are cut over the Sugar Zone area. An oriented soil sampling program is carried out on the grid, as well as mapping and sampling. Prospecting was limited to the Sugar Zone and extensions of the Sugar Zone to the south and to the north. A surface power trenching program is conducted on parts of the Sugar Zone and six trenches were excavated, washed, channel sampled and mapped in detail. A detailed Mag-VLF and reconnaissance gradient I.P. survey is performed on the Property.

A diamond drilling program totaling 9,937 m of NQ core in 53 holes is completed, mostly into and around the Sugar Zone. The drill holes cover 3 km of strike length, and intersect the zone at approximately 50 m spacing at shallow depths. A secondary purpose of the program was to follow-up low grade mineralization encountered in previous drilling by Hemlo Gold and to test previously untested/poorly tested I.P. anomalies west of the Sugar Zone and east of Dayohessarah Lake.

Preliminary Mineral Resource estimates of the Sugar Zone mineralization in the 12000 N to 13100 N area were prepared, based on the drilling program noted above. Another estimate was made, using revised and refined criteria and polygonal methods, in the spring 1999, following additional data evaluation (Drost et Al, 1998).

**2003-2004** Corona conducts a diamond drilling program totaling 7,100 m in 26 holes. The drill program mostly intersects the Sugar Zone and is successful in its purpose of expanding the strike and dip extent of the zone, as well as increasing the level of confidence in the continuity of mineralization by in-fill drilling.

**2004** Corona conducts another diamond drilling program totaling 3,588 m in 11 holes. The program is successful in increasing the mineralization extent of the Sugar Zone, as well as increasing the defined Sugar Zone depth to a vertical depth of 300 m. A new Mineral Resource estimate was completed.

**2008** A helicopter airborne geophysical survey was flown over the Property by Fugro Airborne Surveys Corp., under contract from Corona. The survey used a DIGHEM multi-coil, multi-frequency electromagnetic system along with a high sensitivity cesium magnetometer. A total of 1,917 line-km was flown. It was recommended by Dave Hunt P.Geo. that compilation of historic exploration data on the remainder of the property be followed by a program of reconnaissance mapping and prospecting to evaluate the Fugro airborne conductor axes on the ground, as well as to identify additional target areas extending both north and south of existing Sugar Zone mineralization and elsewhere on the property.

**2009** During March, Corona undertook a drilling program totaling 2,020 m in 10 holes. The purpose of the program was to test airborne electromagnetic conductors, magnetic anomalies, induced polarization chargeability anomalies and geologically defined possible extensions to the north and the south of the known Sugar Zone mineralization.

During July to September, a prospecting, reconnaissance geological mapping and channel sampling program was undertaken on geophysical targets outlined by the Fugro airborne geophysical anomalies. Highlights included sampling of a float rock (Peacock Boulders) returning a value of 87.80 g/t Au, as well as grab samples from quartz veining east of the Sugar Zone returning values of 30.40 and 9.04 g/t Au.

**2010** Harte Gold Corp. initiated its first drilling program. During March, a diamond drill program totaling 2,097.31 m in 12 holes, two of which were aborted before reaching the Sugar Zone. The program was successful in locating a high-grade area of the Sugar Zone located near surface and directly under a series of surface trenches. The drill program was also successful in determining that the Sugar Zone has significant mineralization below 300 m depth.

Ground IP is completed over a grid totaling 20,475 meters. Chargeability from the survey outlines a potential zone north of the Peacock Boulder discovery of 2009. 5 Trenches totaling 1,850 square meters were completed over and around the newly discovered Wolf Zone.

A total of 5,387.94 m of diamond drilling totaling 33 drill holes was completed on the newly discovered Wolf Zone. Results outlined a small, high grade zone with a strike length up to 600 m and a depth up to 250 meters.

**2011** Between May and June 2011 two more grids totaling 60,800 meters were completed over the fold nose near the north end of the of the Dayohessarah Lake Property, on the west side of Hambleton Lake. Follow up ground IP was completed on the grids by JVX Geophysical Surveys. A small 5,200-meter grid was also cut, and ground IP completed on the west side of Dayohessarah Lake, in an attempt to outline a Gossan Zone.

A Bore Hole survey was completed In August 2011 on eleven deep drill holes in the Sugar Zone. The Bore Hole survey outlined several conductors in the area. An airborne VTEM survey was completed at the end of August by Geotech Ltd. The survey covered the entire property and outlined 5 large moderate to strong conductive areas of interest. The most exciting result of the survey was a potential copper-nickel ore body below the surface, under the komatiite volcanics at the northern end of Dayohessarah Lake.

There were two main drill programs in 2011. The first was on the Sugar Zone, between February 11 to April 13, and again between July 17 and November 24, 2011, and totaled 7,885.74 meters of diamond drilling in 27 drill holes. The drilling was designed to expand the resource estimate both at depth, and to upgrade inferred resource to indicated resource. The second drill program targeted IP anomalies on the Fold Nose grid. A total of 3,430.93 meters were drilled in 15 diamond drill holes. Most IP anomalies were explained by sedimentary layers, and no significant intercepts were observed.

**2012** In April 2012, Geotech Ltd. carried out a helicopter borne geophysical survey over the Dayohessarah Lake Property. The program was completed as an extension of the airborne VTEM survey conducted in 2011 which totaled 302 line-km of data over the northern parts of Dayohessarah Lake and western parts of Hambleton Lake and the shoreline. The 2012 program totaled 1,153 line-km of data essentially covering the rest of the Dayohessarah Greenstone Belt.

In an effort to understand the source of the Peacock boulders, thin sections of three Peacock boulder samples were sent to Pleason Geoscience for analysis. The boulders returned assay values of 87.30 g/t Au, 52.80 g/t Au and 37.20 g/t Au. It was noted that the mineralogy and microtextures of the samples were similar to gold-bearing zones at the Hemlo and Musselwhite gold camps.

Between October 30, 2012 and November 2, 2012 four mechanical trenches were made along the surface exposure of the Sugar Zone. The purpose of the trenches was to expose enough high-grade material from the Lower Zone of the Sugar Zone for a reasonably representative blasting program. The total area of the trenches is 1,799 square meters.

During the period January 21, 2012 to July 29, 2012 a total of 6,283.92 meters were drilled in 12 diamond drill holes targeting the Sugar Zone. The drilling was carried out by Major Drilling Group International Inc. The purpose of the diamond drilling program was to expand the current Mineral Resource Estimate of the Sugar Zone at vertical depths below 400 m, and to test the continuity,

grade and width of the zone at 1,000 m vertical depth. The program was successful in defining Au mineralization in both the Upper and Lower Zones with significant assay results ranging from 0.56 g/t Au to 162 g/t Au.

An additional 2 drill holes targeted an IP north-east of Dayohessarah Lake. These exploration holes totaled 375 meters and did not return any significant gold values.

Two holes totaling 333 meters were drilled targeting an extension of the Wolf Zone. No significant assays were returned.

**2013** Exploration in the 2013 season included a short prospecting program, where 46 samples were taken and analyzed for Au using fire assay. Two samples returned Au values of 10.2g/t and 0.73 g/t.

Four holes were drilled on the Halverson Zone, totaling 1103.28m These holes targeted Cu-Ni mineralization discovered in 2011 by a VTEM survey.

An additional 17 diamond drill holes totaling 1356m were drilled to decrease the spacing between holes in a high-grade portion of the Sugar Zone Lower Zone (called Jewelry Box). Significant intervals from this program ran from 2.77 g/t Au to 28.5 g/t Au over widths from 0.35m to 8.27m.

Harte Gold continued moving forward with the permitting and optimization of the advance exploration 70,000 tonne bulk sample at the Sugar Zone. Confirmation drilling at the Jewelry Box Zone (JBZ) returned significant high-grade gold assays and enabled Harte Gold to re-design the bulk sample target areas in order to test this high-grade portion of the Sugar Zone deposit. The JBZ lies close to surface and can be developed quicker and more cost effectively.

Harte Gold also completed road construction to provide highway access to the property and survey work associated with taking certain of the Sugar Zone property mining claims to lease. Harte Gold is also in the process of negotiating contract mining and off-site milling agreements.

Harte Gold completed a regional exploration program and Induced Polarization (IP) survey with the objective of finding the source of the high-grade Peacock Boulders which returned gold values up to 87 g/t. Drill targets have been identified and are scheduled to be drilled during the summer of 2014.

## **2014**

Harte Gold continued to advance the Sugar Zone “Advanced Exploration and Bulk Sample Project” during 2014. Efforts focused on completing the permitting associated with the amended closure plan, completing the road to the portal site and overall optimization of the mining plan developed in the 2012 Preliminary Economic Assessment.

Additional confirmation drilling at the Jewelry Box Zone (JBZ), the target area for the bulk sample, returned significant high-grade gold assays providing additional confirmation to mining contractors developing bids for the project.

2014 was a busy year of exploration, Induced Polarization and magnetometer surveys were conducted over a majority of the core mining claims and generated numerous drill targets. Follow up ground proofing and drill programs identified the Wolf Zone as the source of the high-grade Peacock Boulders and lead to the discovery of the Contact Zone, where a sericite schist was



found to have Hemlo-style geochemistry and anomalous gold as well as a third mineralized zone known as the Footwall Zone and located 50 meters east of the Sugar Zone deposit.

During 2015 Harte Gold completed additional exploration drilling that extended the Sugar Zone deposit 300 meters south of its previously defined boundary.

Harte Gold completed additional construction work on the site access road linking the Sugar Zone deposit to Highway 631 and completed the lease application process for certain mining claims that comprise the Sugar Zone property. The leases cover the Sugar Zone deposit and immediately surrounding area and are a requirement for commercial production.

## **2015**

2015 was a pivotal year for Harte Gold as efforts to move the project ahead during a challenging mining market finally culminated in October with the first portal blast at the Sugar Zone. Since October the ramp was advanced to over 850 meters in length and begun shipping ore to Barrick Gold for custom milling from ore developed on the 375 level.

With production under our bulk sampling program well underway, the commercial permitting process has begun. This process is expected to take 12-18 months which may coincide well with completion of the bulk sample program. During the intervening period, the plan is to continue with underground development which would include the ramp, underground infrastructure including ventilation and setting up stopes to be ready for mining.

The commercial production target is 600 tonnes/day. Milling options are currently being studied and a tailings facility will form part of our permit application so that an on-site milling facility can eventually be built.

Harte gold initiated a significant geophysical program between the Sugar Zone and the Wolf Zone. The Contact Zone where Hemlo-style mineralization has been found in sericite schists up to 45 meter wide and the Gossan Zone located on the west side of Dayohessarah Lake will be a focus for future exploration.

## **2016**

2016 was a very busy year for Harte Gold as mining was in full swing with ore being delivered to Barrick Gold Corporation's Hemlo mill throughout the year.

Exploration efforts both near-mine and regionally are progressing at an aggressive pace with 6 drill rigs now working at the Sugar Zone and the newly discovered Middle Zone and the Wolf Zone. It is expected that the next resource update will include resources at the Middle Zone which could be incorporated into an updated mine plan and Technical Report.

## **2017**

At the Sugar Zone deposit four drill rigs are actively completing infill and step-out drilling to move resources to the Measured, Indicated and Inferred categories. Infill drilling at the Sugar Zone upper 500 meters is now complete and work on an updated resource statement is underway. Step-out drilling targeting resource extensions at a depth below 500 meters is currently underway to extend the down-dip extension to 1,000 meters targeting Inferred resources. Step-out drilling at the Sugar Zone has returned significant intersections to the north within a previously undrilled

area. This work has brought Sugar Zone mineralization to within 300 meters of the Middle Zone, further suggesting potential convergence of both zones

Drilling at the Middle Zone continues with three drill rigs active. Drilling has returned some excellent results including intersections of 13.02 g/t gold over 4.50 meters in hole WZ-17-79W and 13.68 g/t gold over 7.02 meters in hole SZ-17-86W. Hole WZ-17-92 confirms mineralization continues north of the Gabbro intrusion towards the Wolf Zone. One drill rig is being mobilized to test mineralization north of the Gabbro intrusion.

A property-wide MAG and HTEM survey has been completed and results interpreted. The MAG has been instrumental in outlining the geologic structures on the property and combined with the HTEM survey, has identified five new significant anomalies on the property. The strongest conductor is on the west side of the property and is hosted at the contact of a volcanic and sedimentary unit, now referred to as the "Eagle Zone".

Early drilling at the Wolf, Lynx and Fisher Zones has demonstrated on-strike continuity of mineralization. Further definition of these areas will be enhanced using down-hole geophysics to better define potential mineralized structures and refine drill targets.

IP geophysics and soil sampling completed over the summer at the Marten Zone have identified areas to be drilled. Historical grab samples have returned anomalous gold, lead and zinc within the target area.

Technica Group Inc. completed the 30,000 tonne Phase 1 Commercial Production program. Five development sills are now developed in this area and is ready to begin long-hole drilling and mining of the stopes in the late spring to match the commissioning of the mill. Technica is now completing the upgrades of the underground power and ventilation critical for the start of commercial production.

Civil works for the mill began in Q2 as well as site preparation of the tailings management facility. The outer wall footings of the mill are completed, erection of walls is underway to prepare for the mill building shell and foundation work is well under way. It is expected the mill building will be fully erected by year end. Most equipment has been ordered and has begun arriving at site.

## **2018**

A Mineral Resource Estimate dated February 15, 2018 contains an Indicated Mineral Resource Estimate of 2,607,000 tonnes grading 8.52 g/t for 714,200 ounces of contained gold and an Inferred Mineral Resource Estimate of 3,590,000 tonnes, grading 6.59 g/t for 760,800 ounces of contained gold, using a 3.0 g/t Au cut-off. The Company also completed a Preliminary Economic Assessment with an effective date of March 31, 2018, outlining 80,700 ounces of annual average gold production at an All-In Sustaining Cash Cost ("AISC") of US\$708/oz Au over an 11-year mine life.

All commercial production permits were issued in September. Process plant construction and transition to grid power were completed in September. First gold production was announced in mid-October. Gold doré bars are being produced through the gravity circuit and a high-grade concentrate is being produced through the flotation recovery circuit for offsite processing.

Official Mine Opening which was attended by the Premier of Ontario and Minister of Energy, Northern Development and Mines occurred October 24th, 2018. The Company bought down the royalty on the Sugar Zone property from 3.5% to 2.0% effective October 31, 2018.

Process plant commissioning was completed in early November. Since that time the Company has increased throughput to achieve the initial targeted rate of 575 tpd.

Sill development is on-going and long-hole stoping between the 140 and 155 levels off the Sugar Zone South ramp has begun. Results of the first production stope blast achieved expectations.

Underground development continues at the Sugar Zone North and South ramps. During September, the average advance rate of 8 meters per day was ahead of plan. The installation of critical underground infrastructure to support ventilation, power and pumping has been completed. In addition, the mine return air ventilation fan was successfully installed and the transition to grid power for most site power requirements substantially completed. Redpath is ramping up its underground mine personnel to achieve targeted ore sill development rates. Harte Gold's current permits allow for underground mining and mill processing rates of 550 tpd and 575 tpd respectively. Harte Gold will apply to increase both categories to 800 tpd in Q1 2019.

Near Mine Exploration infill drilling at the Sugar and Middle Zones for 2018 has concluded. Approximately 62,000 meters was drilled with a focus on the upgrade of Inferred Mineral Resources to the Indicated category. The drill program was successful and is expected to improve overall modelled grade of the Resources. Results will be factored into an updated NI 43-101 Mineral Resource Estimate targeted for early 2019. Step-out drilling underway will continue to mid-December. Approximately 30,000 meters has been drilled to-date, targeting extension of known mineralization at the Sugar, Middle and Wolf Zones, as well as discovery of new potential zones of mineralization like the Fox Zone. Information provided from the Company's downhole IP program completed in August has been successful identifying several drill targets, including a chargeability anomaly currently being drilled to test the convergence of the Middle and Wolf Zones. Downhole geophysics has been a highly successful tool used in the past; earlier work led to the deep Sugar Zone discovery at a depth of 1,000 meters. The Company has also started deep drilling at the Sugar Zone, approximately 1,500 meters below surface and 500 meters below the current extent of Inferred Mineral Resources, illustrated below. The intent of deep drilling is to test continuity of mineralization down dip and to potentially follow up with further downhole IP to develop deep drilling targets.

## **4.0 Geological Setting**

### **4.1 Regional Geology**

The DGB is situated between two larger greenstone belts; the Hemlo Greenstone Belt to the west and the Kabinakagami Greenstone Belt to the east. These greenstone belts are part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton (Figure 3). The Late Archean DGB trends northwest and forms a narrow, eastward concave crescent. The belt is approximately 36 km in length and varies in width from 1.5 to 5.5 km. Principal lithologies in the belt are moderately to highly deformed metamorphosed volcanics, volcanoclastics and sediments that have been enclosed and intruded by tonalitic to granodioritic quartz-porphyry plutons.

The greenstone belt is bordered to the east by the Strickland Pluton and to the west by the Black Pic Batholith. The Danny Lake Stock borders the south-western edge of the DGB. The Strickland Pluton is characterized by a granodioritic composition, quartz phenocrysts, fine grained titanite, and hematitic fractures. The Black Pic Batholith is similar to the Strickland Pluton, but locally more potassic. The Black Pic Batholith also contains interlayers of monzogranite. The Danny Lake Stock is characterized by hornblende porphyritic quartz monzonite to quartz monzodiorite (G. M. Stott, 1999).

The DGB has been metamorphosed to upper greenschist to amphibolite facies. The Strickland Pluton seems to have squeezed the greenstone belt and imposed upon it a thermal metamorphism. Most of the mafic volcanics are composed primarily of plagioclase and hornblende. Almandine garnets are widely observed in the clastic metasediments and locally, along with pyrope garnets, in the mafic volcanics (G.M. Stott, 1996a,b,c).

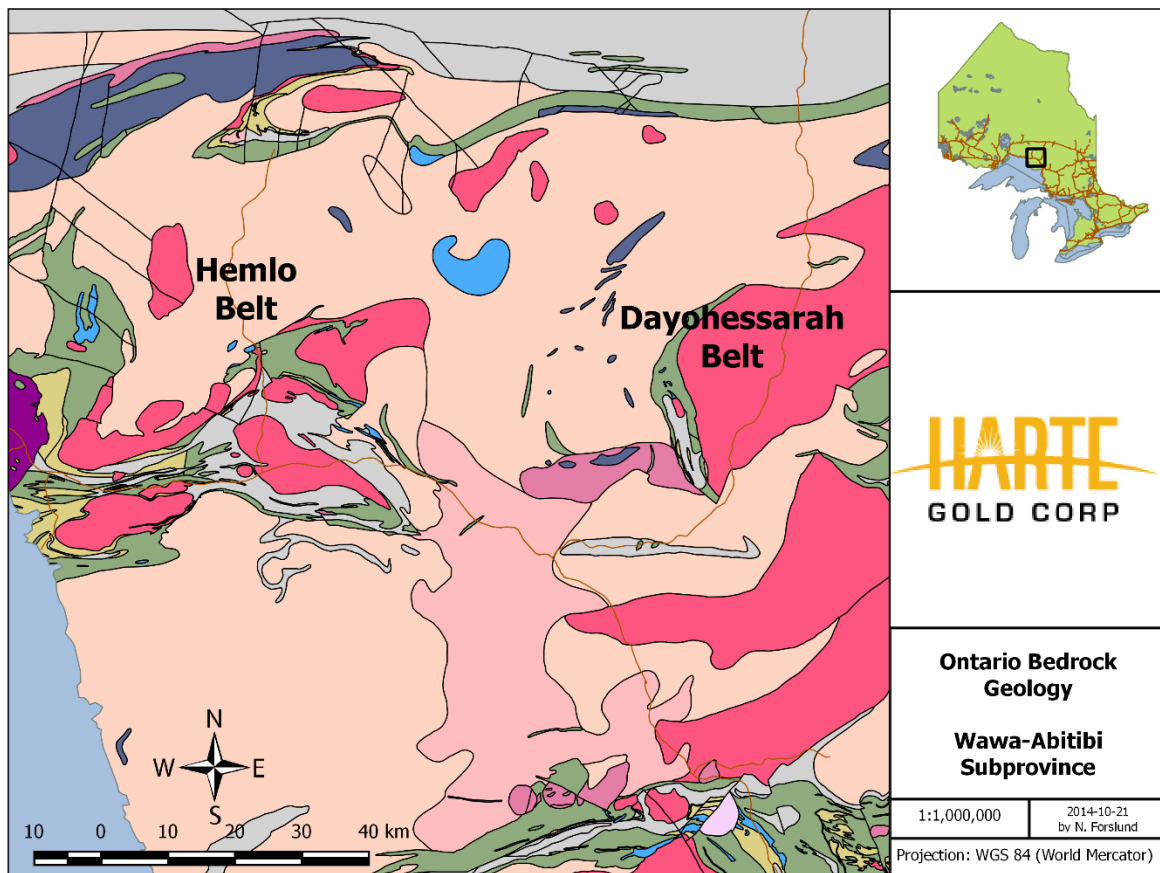


Figure 3 - Regional Geology

Alteration throughout the belt consists of diopside, albitization, weak magnesium biotization, weak carbonatization and moderate to strong silicification which accompanied the emplacement of the porphyry dykes/sills and quartz veining.

The belt has been strongly foliated, flattened and strained. Deformation seen in the supracrustal rocks has been interpreted to be related to the emplacement of the Strickland Pluton. Strongly developed metamorphic mineral lineations in the supracrustal rocks closely compare with the orientations of the quartz phenocryst lineations seen in the Strickland Pluton. This probably reflects a constant strain aureole imposed by the pluton upon the belt (G.M. Stott, 1996a,b,c). The strain fabric is best observed a few hundred meters from the Strickland Pluton in the Sugar Zone, which has been characterized as the most severely strained part of the belt. The Sugar Zone is defined by sets of parallel mineralized quartz veining, quartz flooding of strongly altered wall-rock, thin intermediate porphyry lenses and dykes/sills parallel to stratigraphy and foliation, and gold mineralization.

Foliations and numerous top indicators define a synclinal fold in the central portion of the belt. The synclinal fold has been strongly flattened and stands upright with the fold hinge open to the south and centered along Dayohessarah Lake.

#### **4.2 Property Geology**

Near Dayohessarah Lake, the belt is dominated by a basal sequence of massive to pillowed mafic volcanics, commonly with ellipsoidal, bleached alteration pods, overlain by intermediate tuff and lapilli tuff. The tuffaceous units rapidly grade upwards to a sedimentary sequence consisting of greywacke and conglomerates derived from volcanics, sediments and felsic intrusive sources (G. M. Stott, 1996a,b,c). Several thin, continuous cherty sulphide facies iron formations are found in the mafic volcanic sequence. Spinifex textured komatiitic flows stratigraphically underlie the main sedimentary sequence and can be traced around the north end of Dayohessarah Lake. Also, at the north end of Dayohessarah Lake, mafic and ultramafic sills and stocks underlie the komatiites (Figure 4).

Several fine to medium grained, intermediate feldspar porphyry dykes/sills have intruded and swarmed the belt. Swarming of the intermediate porphyry dykes is more intense east of Dayohessarah Lake. Stott has interpreted the porphyry sills and associated porphyry bodies to be related to the Strickland Pluton. A smaller granitic quartz porphyry body containing some sulphide mineralization is located northwest of Dayohessarah Lake. The porphyritic texture of the dykes/sills is often nearly, or completely, obliterated by the degree of foliation in the greenstone belt, or by the degree of shear in the Sugar Zone. These intermediate dykes/sills vary in abundance across the Property, but increase in regularity within, and around, the Sugar Zone. There is also a consistent, weak pervasive silicic alteration in the intermediate intrusives, as well as consistently trace amounts of very fine-grained disseminated pyrite.

The major linear structure recognized on the Property is the Sugar Deformation Zone ("SDZ"), which trends northwest-southeast for approximately 3.5 km and dips southwest between 65° and 75°. The SDZ appears to be spatially related to the Strickland Pluton and is a complex system with strain intensities varying from strongly deformed-pillow mafic volcanics to undeformed massive mafic flows to anastomosing linear areas. Stratigraphically-conformable porphyritic intermediate intrusions swarm through the SDZ. Both the mafic volcanics and the intermediate intrusives exhibit moderate linear fabrics along with hydrothermal alteration (i.e., silicification).

In general, the north-westerly striking, south-westerly dipping stratigraphy hosting the gold mineralized portions of the Sugar Zone can be subdivided into the following units:

- Hanging Wall Volcanics;

- Upper Zone (Sugar Zone mineralization);
- Interzone Volcanics;
- Lower Zone (Sugar Zone mineralization);
- Footwall Volcanics

The Hanging Wall, Interzone and Footwall volcanic horizons consist predominantly of massive and pillowed basalt flows generally striking northwest and dipping at an average angle of 64° to the southwest. Coarse to very coarse grained, locally gabbroic-textured phases form a significant component of the Hanging Wall mafic volcanic package. It is believed that these phases represent thick, slowly-cooled portions of the massive mafic flows, as they commonly grade into finer grained, more recognizable basaltic flows, and eventually even pillow flows. In much of the area which drilling on the Sugar Zone was carried out, a distinctive, very coarse grained mafic volcanic flow was observed consistently about 15 m stratigraphically above the Upper Zone. Other than this unit, specific mafic flows, as well as intermediate porphyry units, are nearly impossible to interpret/distinguish between holes.

The Upper and Lower zones range in thickness from 1.5 to 10 m, strike at 140° and dip between 65° and 75° with minor undulations.

The auriferous Wolf Zone lies in the northern extent of the SDZ, but drilling between the two zones indicates that the zones are complexly separate from each other. Like the Sugar Zone, the Wolf Zone is north-north-westerly striking and south-westerly dipping. Unlike the Sugar Zone, there is only one gold mineralized zone, and not two or more parallel zones.

A northerly-striking, sub-vertically dipping, dark grey-black, diabase dyke intrudes the older rock types in the greenstone belt, and crosscuts the SDZ. The diabase obliterates the SDZ when it is encountered. The diabase dyke is aphanitic around the edges and, where thick enough to do so, grades to a coarse-grained euhedral rock in the middle of the dyke. The dyke exhibits very coarse-grained greenish quartz-epidote phenocrysts up to 3 cm across throughout. The dyke is weakly pervasively magnetic. A very small amount of lateral movement of the zones has been interpreted locally on either side of the dyke, suggesting that very minor dyke-related faulting has occurred. There are at least two more diabase dykes on the property. They strike at 35 degrees across the northern portion of the belt. These dykes are up to 40 m across, and are similar in appearance and mineralogy to the dyke that cuts through the Sugar Zone.

Other than the diabase, the youngest intrusive rocks observed on the Property are white to pale grey, fine grained to medium grained and occasionally pegmatitic felsite dykes. The dykes generally consist of varying amounts of plagioclase, quartz and muscovite. These generally thin dykes strike northeast and where they intersect the SDZ, they completely wipe out the zone. These dykes are undeformed and clearly postdate the mineralization and deformation events.

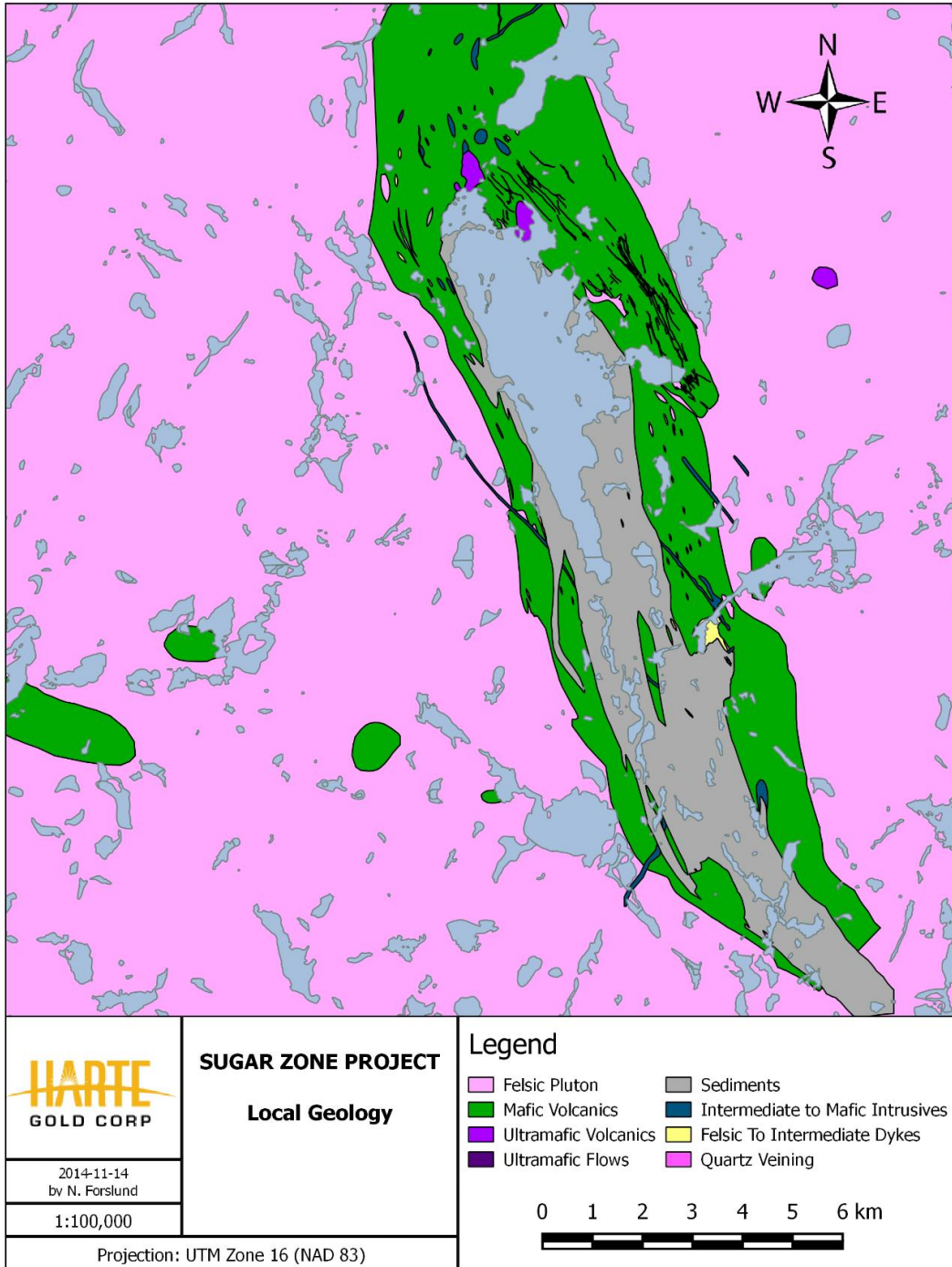


Figure 4 - Property Geology

## **5.0 Mineralization**

### **5.1 Sugar Zone**

The auriferous Upper and Lower zones of the Sugar Zone lie within the SDZ. They are defined as highly strained packages consisting of variously altered mafic volcanic flows, intermediate porphyritic intrusions and boudinaged auriferous quartz veins. The two zones range in true thickness from about 1.5 to 10 m, and are separated by 20 to 30 m of barren mafic volcanics. A high-grade section of the Lower zone between lines 13+000N and 12+900N has been the focus of a bulk sample study and is referred to as the Jewelry Box.

Each zone is made up of one or more porphyritic intrusions, flanked by altered basalt and hosting stratigraphically conformable quartz veins. Alteration within the mafic volcanic portions of the zones consists primarily of silicification (both pervasive and as quartz veining), diopside and biotization. The porphyry units of the zones exhibit biotite and silica alteration as well, but no diopside alteration.

The Upper and Lower zones appear geologically consistent both down dip and along strike. The Lower Zone has consistently larger widths, as well as mostly consistently higher grades of gold mineralization, however both the width and the gold grade within each zone seem to follow the same trends across the zone. That is to say, that where the Upper Zone exhibits larger widths and higher gold grades, the Lower Zone also exhibits larger widths and higher gold grades. The zones are observed on surface to pinch and swell over distances of 50 m or more.

Gold mineralization mostly occurs in quartz veins, stringers and quartz flooded zones predominantly associated with porphyry zones, porphyry contact zones, hydrothermally altered basalts and, rarely, weakly altered or unaltered basalt within the Upper and Lower zones.

Fine to coarse grained specks and blebs of visible gold are common in the Sugar Zone quartz veins, usually occurring within marginal, laminated or refractured portions of the veins. The visible gold itself is often observed to be concentrated within thin fractures, indicating some degree of remobilization. Quartz veins and floods also contain varying amounts of pyrrhotite, pyrite, chalcopyrite, galena, sphalerite, molybdenite and arsenopyrite. The presence of galena, sphalerite and/or arsenopyrite is a strong indicator of the presence of visible gold. Pyrite, chalcopyrite and, rarely, molybdenite form a minor component of total sulphides and do not appear to be directly related to the presence of gold mineralization.

Other mineralized zones have been observed between, above and below the Sugar Zone Upper and Lower zones, in diamond drilling. Most of these intercepts are believed to be quartz veining originating in either the Upper or Lower zone, that have been diverted from the sheared part of the zone, up to 30 m from the main bodies of mineralization. One of these zones is the historically discovered Zoe Zone, which has been recently renamed the Lynx Zone, which lies east of the southern end of the Sugar Zone.

### **5.2 Wolf Zone**

The auriferous Wolf Zone lies along strike of the Sugar Zone, and may represent the northern extension of the SDZ. It is defined as highly strained packages consisting of variously altered mafic volcanic flows and gabbro's. The zone ranges in true thickness from 0.5 to 8 m.



The zone is made up of highly sheared mafic volcanics, and a network of intrusive, intermediate quartz-feldspar porphyry dykes/sills. Alteration in the mafic volcanic and gabbro units consists mainly of silicification (both pervasive and quartz veining), diopside alteration and magnesium-rich brown biotite alteration. Alteration within the intermediate porphyry units consist of mostly silicification, with small amounts of magnesium-rich brown biotite, and no diopside. The zone is observed in trenches to pinch and swell over 30 m.

Gold mineralization mostly occurs in quartz veins, stringers and quartz flooded zones predominantly associated with porphyry zones, and hydrothermally altered basalts and gabbro's.

Fine grained specks of visible gold are occasionally observed in the Wolf Zone quartz veins. The visible gold itself is often observed to be concentrated within thin fractures, indicating some degree of remobilization. Quartz veins and floods also contain varying amounts of pyrrhotite, pyrite and occasional galena. The presence of galena is a strong indicator of the presence of visible gold. Pyrite and pyrrhotite form most of the total sulphides, but do not appear to be directly related to the presence of gold mineralization.

## **6.0 2018 and 2019 Diamond Drilling**

### **6.1 Sample Collection, Preparation, Analyses and Security**

NQ drill core is placed in core boxes by drillers. All drill core was delivered to the core processing facility in White River, Ontario where it undergoes geotechnical and geological logging by the geotechnician and geologist. The following describes the core logging process:

- The core is oriented in the box with the saddle pointing downhole, and rock quality data (RQD) is collected from each 3m run.
- The geotechnician marks out 1.0m intervals with a blue China marker and prepares a box list stating the length of core in each box. Aluminum tags are made and stapled to the end of each box.
- Core is photographed dry and wet.
- The geologist logs the geology of each hole, paying close attention to lithologies, alteration, structures, veining and mineralization.
- Sample collection begins with the marking of sample intervals with a red China marker by the geologist. The sample is given a sample tag. Sample intervals range from 50cm to 1.5m, and are taken not to cross major lithology boundaries. Standards and blanks are alternately inserted every 10<sup>th</sup> sample for QAQC.
- The core is cut with a Vancor diamond core saw by the geotechnician, and placed back in the box. Half core samples are taken from the box and bagged individually. The technician always takes the back half of the core for shipping, while the front half stays in the box.
- The individually bagged samples are placed in rice bags and delivered to Actlabs in Thunder Bay, Ontario. Samples are delivered either in person by Harte Gold staff, or by Greyhound Bus.
- Core is stored in racks in a locked fenced in yard at the core processing facility in White River, Ontario.

## 6.2 Laboratory Methods

### Sample Preparation

Samples arrive at Actlabs at 217 Round Blvd, Thunder Bay, Ontario, where they are received and documented. Once the samples arrive in the laboratory, Actlabs will ensure that they are prepared properly.

As a routine practice with rock and core, the entire sample is crushed to a nominal minus 10 mesh (1.7 mm), mechanically split (riffle) to obtain a representative sample and then pulverized to at least 95% minus 150 mesh (106 microns).

All of Actlabs steel mills are now mild steel and do not induce Cr or Ni contamination. Quality of crushing and pulverization is routinely checked as part of their quality assurance program. All equipment is cleaned using quartz and air from a compressed air source. Blanks, sample replicates, duplicates, and internal reference materials (both aqueous and geochemical standards) are routinely used as part of Actlabs quality assurance program.

RX1	Crush (<7kg) up to 90% passing 2mm, riffle split (250g) and pulverize (mild steel) to 95% passing 105u. Cleaner sand included
-----	---

### 1A2 - (1A2-30 or 50) Au Fire Assay - AA

#### Fire Assay Fusion

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

#### AA Finish

The entire Ag dore bead is dissolved in aqua regia and the gold content is determined by AA (Atomic Absorption). AA is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species. On each tray of 42 samples there is two blanks, three sample duplicates and 2 certified reference materials, one high and one low (QC 7 out of 42 samples). We generally rerun all gold by fire assay gravimetric over 3,000 ppb to ensure accurate values

**Code 1A2** (Fire Assay-AA) Detection Limits (ppb)

Element	Detection Limit	Upper Limit
Au	5	5,000

### **1A3 - (1A3-30 or 50) - Au Fire Assay - Gravimetric**

#### **Fire Assay**

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

Au is separated from the Ag in the doré bead by parting with nitric acid. The resulting gold flake is annealed using a torch. The gold flake remaining is weighed gravimetrically on a microbalance.

#### **Code 1A3 (Fire Assay-Gravimetric) Detection Limits (g/mT)**

Element	Detection Limit	Upper Limit
Au	0.03 (30 g) 0.02 (50 g)	10000

### **1A4 and 1A4-1000 - Au Fire Assay-Metallic Screen**

#### **Metallic Screen**

A representative 500 g split (1,000 g for Code 1A4-1000) is sieved at 100 mesh (149 micron) with fire assays performed on the entire +100 mesh and 2 splits on the -100 mesh fraction. The total amount of sample and the +100 mesh and -100 mesh fraction is weighed for assay reconciliation. Measured amounts of cleaner sand are used between samples and saved to test for possible plating out of gold on the mill. Alternative sieving mesh sizes are available but the user is warned that the finer the grind the more likelihood of gold loss by plating out on the mill.

#### **Fire Assay**

A sample size of 5 to 50 grams can be used but the routine size is 30 g for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire

fusion process lasting 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au.

Au is separated from the Ag in the doré bead by parting with nitric acid. The gold (roasting) flake remaining is weighed gravimetrically on a microbalance. Two splits on the -150 micron fraction are weighted and analyzed by fire assay with a gravimetric finish. A final assay is calculated based on the weight of each separated fraction and obtained Au values.

**Code 1A4 (Fire Assay-Metallic Screen) Detection Limits (g/mT)**

Element	Detection Limit
Au	0.03

**Ultratrace 6 - "Near Total" Digestion - ICP and ICP/MS**

Ultratrace 6 combines the 4-acid digestion (HF, HClO<sub>4</sub>, HNO<sub>3</sub> and HCl) with analysis by ICP and ICP/MS. Resistate minerals are not digested.

**"Near Total" Digestion - ICP Portion**

A 0.25 g sample is digested with four acids beginning with hydrofluoric, followed by a mixture of nitric and perchloric acids, heated using precise programmer controlled heating in several ramping and holding cycles which takes the samples to incipient dryness. After incipient dryness is attained, samples are brought back into solution using aqua regia.

With this digestion, certain phases may be only partially solubilized. These phases include zircon, monazite, sphene, gahnite, chromite, cassiterite, rutile and barite. Ag greater than 100 ppm and Pb greater than 5000 ppm should be assayed as high levels may not be solubilized. Only sulphide sulfur will be solubilized.

The samples are then analyzed using a Varian ICP. QC for the digestion is 14% for each batch, 5 method reagent blanks, 10 in-house controls, 10 samples duplicates, and 8 certified reference materials. An additional 13% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift.

**"Near Total" Digestion – ICP/MS Portion**

Additional elements are determined by ICP/MS on the multi-acid digest solution above. The samples are diluted and analyzed on a Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS. One blank is run for every 40 samples. In-house control is run every 20 samples. Digested standards are run every 80 samples. After every 15 samples, a digestion duplicate is analyzed. Instrument is recalibrated every 80 samples.

Extraction of each element by 4-Acid Digestion is dependent on mineralogy. Sulphide sulphur and soluble sulphates are extracted.

**Code Ultratrace-6 Elements and Detection Limits (ppm)**

Element	Detection	Upper	Reported	Element	Detection	Upper	Reported
Ag	0.05	100	ICP&ICP/MS	Na	0.01%	3%	ICP
Al	0.01%	10%	ICP	Nb	0.1	500	ICP/MS
As	0.1	10,000	ICP/MS	Nd	0.1	10,000	ICP/MS
Ba	1	5,000	ICP/MS	Ni	0.5	5,000	ICP/MS
Be	0.1	1,000	ICP/MS	P	0.001%	10%	ICP
Bi	0.02	2,000	ICP/MS	Pb	0.5	5,000	ICP/MS
Ca	0.01%	50%	ICP	Pr	0.1	1,000	ICP/MS
Cd	0.1	1,000	ICP/MS	Rb	0.2	5,000	ICP/MS
Ce	0.1	10,000	ICP/MS	Re	0.001	100	ICP/MS
Co	0.1	500	ICP/MS	S+	0.01%	20%	ICP
Cr	1	5,000	ICP/MS	Sb	0.1	500	ICP/MS
Cs	0.05	100	ICP/MS	Sc	1	-	ICP
Cu	0.2	10,000	ICP/MS	Se	0.1	1,000	ICP/MS
Dy	0.1	5,000	ICP/MS	Sm	0.1	100	ICP/MS
Er	0.1	1,000	ICP/MS	Sn	1	200	ICP/MS
Eu	0.05	100	ICP/MS	Sr	0.2	1,000	ICP/MS
Fe	0.01%	50%	ICP	Ta	0.1	1,000	ICP/MS
Ga	0.1	500	ICP/MS	Tb	0.1	100	ICP/MS
Ge	0.1	500	ICP/MS	Te	0.1	500	ICP/MS
Gd	0.1	5,000	ICP/MS	Th	0.1	500	ICP/MS
Hf	0.1	500	ICP/MS	Ti	0.0005%	-	ICP
Hg	10 ppb	10,000	ICP/MS	Tl	0.05	500	ICP/MS
Ho	0.1	1,000	ICP/MS	Tm	0.1	1,000	ICP/MS
In	0.1	100	ICP/MS	U	0.1	10,000	ICP/MS
K	0.01%	5%	ICP	V	1	1,000	ICP/MS
La	0.1	10,000	ICP/MS	W	0.1	200	ICP/MS
Li	0.5	400	ICP/MS	Y	0.1	10,000	ICP/MS
Lu	0.1	100	ICP/MS	Yb	0.1	5,000	ICP/MS
Mg	0.01%	50%	ICP	Zn	0.2	10,000	ICP/MS
Mn	1	10,000	ICP	Zr	1	5,000	ICP/MS
Mo	0.1	10,000	ICP/MS				

**6.3 2018 and 2019 Drilling**

Sixteen diamond drill holes totalling 6107.88 meters were drilled into the Hambleton Grid area during the 2018 and 2019 programs. The intent of the 2018 portion of the program was to drill test

IP and magnetic anomalies in the area. The intent of the 2019 portion of the program was to further investigate these IP and Magnetic anomalies as well as follow up on anomalous Au values from a previously conducted soil sampling survey.

The drill logs, plans and cross sections for all holes are presented in Appendix B, Appendix C and Appendix D, respectively.

#### 6.4 Results

A total of 934 core samples were collected and 1026 analysis were performed for gold by fire assay AA, gravimetric or metallic method. Any sample following an AA finish with a value of over 3 g/t and 10 g/t gold were re-assayed by gravimetric finish and screen metallic assay, respectively.

All of the samples were shipped to Actlabs in Thunder Bay, Ontario.

No significant gold values were returned from any of the Hambleton Grid holes.

Detailed assay results can be found in the Drill Logs attached in Appendix B and drill certificates from Actlabs can be found in Appendix E. Actlabs invoices are found in Appendix F. Chibougamau Diamond Drilling Ltd. invoices are in Appendix G.

#### 7.0 Conclusions and Recommendations

Between October 18<sup>th</sup>, 2018 to November 1<sup>st</sup>, 2018, and February 21<sup>st</sup>, 2019 to April 16<sup>th</sup>, 2019, Harte Gold Corporation performed a sixteen-hole, 6107.88-meter diamond drill program in the Hambleton Grid area. Based on the lack of gold values received at the Hambleton Grid area, no further drilling is warranted at this time.

#### 8.0 Costs

A total of \$693,289 was spent during the Hambleton Grid drill program. Costs and cost distribution per claim are summarized in Tables 1, 2, 3 and 4.

**Table 1 – Hambleton Grid - Summary of Costs**

Activity	Units			Cost per Unit		Total	%
Drilling (16 holes)	6,107.88	meters	@	\$88.50	per meter	\$ 540,553	78.0%
Planning/Supervision	70	days	@	\$650.00	per day	\$ 45,500	6.6%
Drill Geologist	70	days	@	\$350.00	per day	\$ 24,500	3.5%
Core Cutter	70	days	@	\$220.00	per day	\$ 15,400	2.2%
Assays	1026	samples	@	\$15.88	per sample	\$ 16,296	2.4%
Truck Rental	2.5	months	@	\$2,000.00	per month	\$ 5,000	0.7%
Gas	3	trips per hole	@	\$30.00	per trips per hole	\$ 1,440	0.2%
Room & Board - Supervisor	70	days	@	\$300.00	per day	\$ 21,000	3.0%
Room & Board - Geologist	70	days	@	\$300.00	per day	\$ 21,000	3.0%
Report Writing	4	days	@	\$650.00	per day	\$ 2,600	0.4%
<b>Total Drill Cost</b>						<b>\$ 693,289</b>	<b>100.0%</b>
					<b>Ave. \$/m</b>	<b>\$ 113.51</b>	

**Table 2 – Hambleton Grid - Cost Per Claim**

	Grouped Claim Number					
	531212	531215	531227	531266	531267	
<b>Total Meters/Claim</b>	4078.88	361	411	609	648	<b>6,107.88</b>
<b>% of Total Meterage/Claim</b>	66.78%	5.91%	6.73%	9.97%	10.61%	<b>100.00%</b>
<b>Activity</b>						<b>Total Cost</b>
<b>Drill Cost</b>	\$360,985	\$31,949	\$36,374	\$53,897	\$57,349	<b>\$540,553</b>
<b>Assay Cost</b>	\$10,883	\$963	\$1,097	\$1,625	\$1,729	<b>\$16,296</b>
<b>Planning/Supervision</b>	\$30,385	\$2,689	\$3,062	\$4,537	\$4,827	<b>\$45,500</b>
<b>Drill Geologist</b>	\$16,361	\$1,448	\$1,649	\$2,443	\$2,599	<b>\$24,500</b>
<b>Core Cutter</b>	\$10,284	\$910	\$1,036	\$1,535	\$1,634	<b>\$15,400</b>
<b>Truck Rental</b>	\$3,339	\$296	\$336	\$499	\$530	<b>\$5,000</b>
<b>Gas</b>	\$962	\$85	\$97	\$144	\$153	<b>\$1,440</b>
<b>R&amp;B - Supervisor</b>	\$14,024	\$1,241	\$1,413	\$2,094	\$2,228	<b>\$21,000</b>
<b>R&amp;B Geologist</b>	\$14,024	\$1,241	\$1,413	\$2,094	\$2,228	<b>\$21,000</b>
<b>Report Writing</b>	\$1,736	\$154	\$175	\$259	\$276	<b>\$2,600</b>
<b>Total Cost/Claim</b>	<b>\$462,983</b>	<b>\$40,976</b>	<b>\$46,652</b>	<b>\$69,126</b>	<b>\$73,553</b>	<b>\$693,289</b>

**Table 3 – Hambleton Grid - DDH Program Cost Summary**

**HAMBLETON GRID DDH PROGRAM COST SUMMARY**

DDH & Cost Item	Invoice Cost	Group #	Invoice #
<b>HG-18-18</b>			HC 150-16
NW casing	\$187.50	531267	24219, 24220, 24221
NQ drilling	\$21,739.50		
Reflex tests	\$900.00		
Material used for hole	\$345.00		
Material left in hole	\$560.00		
Man/Machine hours	\$3,617.00		
Handling cost	\$335.25		
<b>Total Cost for hole</b>	<b>\$27,684.25</b>		
<b>Total Meters</b>	<b>342</b>		
<b>Cost Per Meter</b>	<b>\$80.95</b>		

DDH & Cost Item	Invoice Cost	Group #	Invoice #
<b>HG-18-19</b>			HC 150-16
NW casing	\$937.50	531227	24221, 24222
NQ drilling	\$25,716.00		
Reflex tests	\$1,100.00		
Material used in hole	\$435.00		
Material left in hole	\$1,200.00		
Man/Machine hours	\$3,640.00		
Handling cost	\$219.25		
<b>Total Cost for hole</b>	<b>\$33,247.75</b>		
<b>Total Meters</b>	<b>411</b>		
<b>Cost Per Meter</b>	<b>\$80.89</b>		

DDH & Cost Item	Invoice Cost	Group #	Invoice #
<b>HG-18-20</b>			HC 150-16
NW casing	\$562.50	531266	24222, 24223
NQ drilling	\$21,364.50		
Reflex tests	\$800.00		
Material used in hole	\$195.00		
Material left in hole	\$880.00		
Man/Machine hours	\$4,510.00		
Handling cost	\$472.00		
Demobilization	\$4,000.00		
<b>Total Cost for hole</b>	<b>\$32,784.00</b>		
<b>Total Meters</b>	<b>300</b>		
<b>Cost Per Meter</b>	<b>\$109.28</b>		

DDH & Cost Item	Invoice Cost	Group #	Invoice #
<b>HG-19-21</b>			HC 150-19
NW casing	\$187.50	531266	24532, 24533
NQ drilling	\$19,479.00		
Reflex tests	\$800.00		
Waterline	\$2,884.00		
Material used in hole	\$150.00		
Material left in hole	\$560.00		
Man/Machine hours	\$4,800.00		
Handling cost	\$487.50		
<b>Total Cost for hole</b>	<b>\$29,348.00</b>		
<b>Total Meters</b>	<b>309</b>		
<b>Cost Per Meter</b>	<b>\$94.98</b>		



	DDH & Cost Item	Invoice Cost	Group #	Invoice #
5	<b>HG-19-22</b>			HC 150-19
	NW casing	\$375.00	531267	24533, 24534
	NQ drilling	\$19,086.00		
	Reflex tests	\$800.00		
	Waterline	\$918.00		
	Material left in hole	\$720.00		
	Man/Machine hours	\$4,582.50		
	Handling cost	\$527.00		
	Reflex rental	\$700.00		
	<b>Total Cost for hole</b>	<b>\$27,708.50</b>		
	<b>Total Meters</b>	<b>306</b>		
	<b>Cost Per Meter</b>	<b>\$90.55</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
6	<b>HG-19-23</b>			HC 150-16
	NW casing	\$562.50	531212	246245, 246246
	NQ drilling	\$20,337.00		
	Reflex tests	\$900.00		
	Waterline	\$3,488.00		
	Material used in hole	\$345.00		
	Material left in hole	\$880.00		
	Man/Machine hours	\$9,907.50		
	Handling cost	\$512.75		
	Water Pump rental	\$800.00		
	<b>Total Cost for hole</b>	<b>\$37,732.75</b>		
	<b>Total Meters</b>	<b>327</b>		
	<b>Cost Per Meter</b>	<b>\$115.39</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
7	<b>HG-19-24</b>			HC 150-16
	NW casing	\$375.00	531212 531215	24646, 24647
	NQ drilling	\$21,319.00		
	Waterline	\$873.60		
	Material used in hole	\$150.00		
	Material left in hole	\$720.00		
	Man/Machine hours	\$1,380.00		
	Handling cost	\$1,063.75		
	Reflex rental	\$820.00		
	<b>Total Cost for hole</b>	<b>\$26,701.35</b>		
	<b>Total Meters</b>	<b>336</b>		
	<b>Cost Per Meter</b>	<b>\$79.47</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
8	<b>HG-19-25</b>			HC 150-16
	NW casing	\$187.50	531212	24647, 24648
	NQ drilling	\$20,712.00		
	Reflex tests	\$900.00		
	Waterline	\$2,092.80		
	Materials used for hole	\$150.00		
	Material left in hole	\$560.00		
	Handling cost	\$240.00		
	<b>Total Cost for hole</b>	<b>\$24,842.30</b>		
	<b>Total Meters</b>	<b>300</b>		
	<b>Cost Per Meter</b>	<b>\$82.81</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
9	<b>HG-19-26</b>			HC 150-16
	NW casing	\$187.50	531212	24648, 24689
	NQ drilling	\$27,256.00		
	Reflex tests	\$1,200.00		
	Waterline	\$1,286.40		
	Materials used in hole	\$3,300.00		
	Material left in hole	\$560.00		
	Man/Machine hours	\$495.00		
	Handling cost	\$435.50		
	Excavator rental	\$7,500.00		
	Reflex rental	\$2,650.00		
	APS Rental	\$700.00		
	<b>Total Cost for hole</b>	<b>\$45,570.40</b>		
	<b>Total Meters</b>	<b>400</b>		
	<b>Cost Per Meter</b>	<b>\$113.93</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
10	<b>HG-19-27</b>			HC 150-16
	NW casing	\$187.50	531212	24690
	NQ drilling	\$18,862.50		
	Reflex tests	\$800.00		
	Waterline	\$1,920.00		
	Materials used for hole	\$150.00		
	Material left in hole	\$560.00		
	Man/Machine hours	\$225.00		
	Handling cost	\$93.50		
	<b>Total Cost for hole</b>	<b>\$22,798.50</b>		
	<b>Total Meters</b>	<b>301.88</b>		
	<b>Cost Per Meter</b>	<b>\$75.52</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
11	<b>HG-19-28</b>			HC 150-16
	NW casing	\$187.50	531212	24691
	NQ drilling	\$27,082.50		
	Reflex tests	\$1,200.00		
	Waterline	\$2,688.00		
	Materials used in hole	\$195.00		
	Material left in hole	\$560.00		
	Man/Machine hours	\$637.50		
	Handling cost	\$139.25		
	<b>Total Cost for hole</b>	<b>\$32,689.75</b>		
	<b>Total Meters</b>	<b>420</b>		
	<b>Cost Per Meter</b>	<b>\$77.83</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
12	<b>HG-19-29</b>			HC 150-16
	NW casing	\$375.00	531212	24692, 24693
	NQ drilling	\$31,210.50		
	Reflex tests	\$1,400.00		
	Waterline	\$4,926.60		
	Material used in hole	\$390.00		
	Material left in hole	\$720.00		
	Man/Machine hours	\$1,395.00		
	Handling cost	\$222.25		
	Waterpump Rental	\$1,000.00		
	<b>Total Cost for hole</b>	<b>\$40,639.35</b>		
	<b>Total Meters</b>	<b>450</b>		
	<b>Cost Per Meter</b>	<b>\$90.31</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
13	<b>HG-19-30</b>			HC 150-16
	NW casing	\$187.50	531212	24693, 24694, 24779
	NQ drilling	\$16,540.50		
	Reflex tests	\$720.00		
	Waterline	\$2,692.80		
	Material used in hole	\$335.00		
	Man/Machine hours	\$1,507.50		
	Handling cost	\$275.25		
	Waterpump Rental	\$400.00		
	<b>Total Cost for hole</b>	<b>\$22,258.55</b>		
	<b>Total Meters</b>	<b>573</b>		
	<b>Cost Per Meter</b>	<b>\$38.85</b>		

	DDH & Cost Item	Invoice Cost	Group #	Invoice #
14	<b>HG-19-31</b>			HC 150-16
	NW casing	\$187.50	531212	24780
	NQ drilling	\$24,411.00		
	Reflex tests	\$1,100.00		
	Waterline	\$4,368.80		
	Materials used in hole	\$300.00		
	Material left in hole	\$560.00		
	Handling cost	\$86.00		
	<b>Total Cost for hole</b>	<b>\$31,013.30</b>		
	<b>Total Meters</b>	<b>381</b>		
	<b>Cost Per Meter</b>	<b>\$81.40</b>		

	<b>DDH &amp; Cost Item</b>	<b>Invoice Cost</b>	<b>Group #</b>	<b>Invoice #</b>
15	<b>HG-19-32</b>			HC 150-19
	NW casing	\$375.00	531215	24783, 24784, 24785
	NQ drilling	\$22,168.50		
	Reflex tests	\$1,000.00		
	Waterline	\$608.40		
	Material used for the hole	\$195.00		
	Material left in hole	\$4,685.00		
	Man/Machine hours	\$8,250.00		
	Handling cost	\$1,382.00		
	<b>Total Cost for hole</b>	<b>\$38,663.90</b>		
	<b>Total Meters</b>	<b>351</b>		
	<b>Cost Per Meter</b>	<b>\$110.15</b>		

	<b>DDH &amp; Cost Item</b>	<b>Invoice Cost</b>	<b>Group #</b>	<b>Invoice #</b>
16	<b>HG-19-33</b>			HC 150-16
	NW casing	\$187.50	531212	24781, 24782, 24804
	NQ drilling	\$36,481.50		
	Reflex tests	\$1,600.00		
	Waterline	\$6,260.80		
	Material used in hole	\$495.00		
	Man/Machine hours	\$10,335.00		
	Handling cost	\$660.75		
	Excavator rental	\$7,500.00		
	Reflex rental	\$2,650.00		
	APS Rental	\$700.00		
	Waterpump Rental	\$3,000.00		
	<b>Total Cost for hole</b>	<b>\$66,870.55</b>		
	<b>Total Meters</b>	<b>600</b>		
	<b>Cost Per Meter</b>	<b>\$111.45</b>		

<b>Total cost of drill program</b>	<b>\$540,553.20</b>
<b>Total meters drilled</b>	<b>6107.88</b>
<b>Cost per meter drilled</b>	<b>\$88.50</b>

**Table 4 – Hambleton Grid - Analytical Cost Summary**

DDH #	Certificate #	RX1-1-T (\$7/sample)	RX4 (\$7.5/sample)	1A2 (\$8/sample)	200% Rush	UT-6	Subtotal Cost
HG-18-18	A18-16718	34		36			\$526.00
	Total	<b>34</b>		<b>36</b>			<b>\$526.00</b>
HG-18-19	A18-16716	40		42			\$616.00
	Total	<b>40</b>		<b>42</b>			<b>\$616.00</b>
HG-18-20	A18-16717	24		25			\$368.00
	A18-17154	20		21			\$308.00
	Total	<b>44</b>		<b>46</b>			<b>\$676.00</b>
HG-19-21	A19-03171	40		43			\$624.00
	A19-03445	1		1			\$15.00
	Total	<b>41</b>		<b>44</b>			<b>\$639.00</b>
HG-19-22	A19-03441	64		68		4	\$1,104.00
	Total	<b>64</b>		<b>68</b>		<b>4</b>	<b>\$1,104.00</b>
HG-19-23	A19-03445	37		39		1	\$571.00
	Total	<b>37</b>		<b>39</b>		<b>1</b>	<b>\$571.00</b>
HG-19-24	A19-03925	17		18	1	5	\$1,209.00
	A19-03934	36		37		2	\$604.00
	Total	<b>53</b>		<b>55</b>	<b>1</b>	<b>7</b>	<b>\$1,813.00</b>
HG-19-25	A19-04350	67		71		1	\$1,065.00
	Total	<b>67</b>		<b>71</b>		<b>1</b>	<b>\$1,065.00</b>
HG-19-26	A19-05036	90		95		8	\$1,614.00
	Total	<b>90</b>		<b>95</b>		<b>8</b>	<b>\$1,614.00</b>
HG-19-27	A19-05038	30		31		4	\$570.00
	Total	<b>30</b>		<b>31</b>		<b>4</b>	<b>\$570.00</b>
HG-19-28	A19-05484	54		57		11	\$1,142.00
	A19-05891	3		3			\$45.00
	Total	<b>57</b>		<b>60</b>		<b>11</b>	<b>\$1,187.00</b>
HG-19-29	A19-05485	101		106			\$1,555.00
	Total	<b>101</b>		<b>106</b>			<b>\$1,555.00</b>
HG-19-30	A19-05481	75	7	85		1	\$1,264.50
	Total	<b>75</b>	<b>7</b>	<b>85</b>		<b>1</b>	<b>\$1,264.50</b>
HG-19-31	A19-05961	57		60			\$879.00
	Total	<b>57</b>		<b>60</b>			<b>\$879.00</b>

HG-19-32	A19-05961	19		19			\$285.00
Total		<b>19</b>		<b>19</b>			<b>\$285.00</b>

HG-19-33	A19-05891	125		132			\$1,931.00
Total		<b>125</b>		<b>132</b>			<b>\$1,931.00</b>

<b>Total</b>		<b>934</b>	<b>7</b>	<b>989</b>	<b>1</b>	<b>37</b>	<b>\$16,295.50</b>
--------------	--	------------	----------	------------	----------	-----------	--------------------

<b>\$16,295.50</b>	<b>Total Analytical Cost</b>
<b>934</b>	<b>Total # of Rock Samples</b>
<b>1026</b>	<b>Total # Of Analysis</b>
<b>\$15.88</b>	<b>Total Ave. Analytical Cost/Sample</b>

## 9.0 References

- Hunt, D.S., 2009. Report on the Summer 2009 exploration program on the Sugar Zone project. Internal report prepared for Corona Gold Corporation and Harte Gold Corp.
- Laarman, J.E., 2014. Report on the Summer 2014 Geologic Mapping. Internal report prepared for Harte Gold Corp.
- Middleton, R.S., Forslund, N.R., Laarman, J., 2015. 2014 Report on Diamond Drilling at the Sugar Zone Property, Dayohessarah Lake Area, White River, Ontario – Part 2. Internal Report for Harte Gold Corp., January 2015.
- Ramsay, J. G. 1980. The crack-seal mechanism of rock deformation. *Nature* 284, 135-139.
- Shegelski, R.J., 2014. Depositional history, structural geology and timing of gold mineralization of the Sugar Zone gold property, Dayohessarah Lake area, White River, Ontario. Internal Report for Harte Gold, September 2014, 21p.
- Stein, H.J, Markey, R.J. and Morgan, J.W., 2000. Robust Re-Os Molybdenite Ages for the Hemlo Au Deposit, Superior Province, Canada. *Journal of Conference Abstracts*, v.5, p955.
- Stott, G.M., 1996a. Precambrian Geology of Dayohessarah Lake Area (North half), Ontario Geological Survey, Preliminary map no. 3309.
- Stott, G.M., 1996b. Precambrian Geology of Dayohessarah Lake Area (Central area), Ontario Geological Survey, Preliminary map no. 3310.
- Stott, G.M., 1996c. Precambrian Geology of Dayohessarah Lake Area (South half), Ontario Geological Survey, Preliminary map no. 3311.

## 10.0 Statement of Qualifications

I, Andrew Wehrfritz, hereby certify that:

I am presently employed by Harte Gold Corporation as an Exploration Geologist.

I am a graduate of the University of Waterloo (B.Sc. Hons. Earth Science), 2011 and a graduate of The University of Waterloo (M.Sc. Earth Sciences), 2016.

I have personal knowledge of the work carried out on the property as described in this report,

I have no personal interest in the property.

Dated this 30th day of September, 2019 at White River, Ontario.



---

Andrew Wehrfritz, M.Sc., GIT

I, David B. Stevenson, of 2217 Lacewood Drive, Thunder Bay, Ontario, P7K 1C4 hereby certify that:

I am presently employed by Harte Gold Corporation as their Chief Exploration Geologist.

I am a graduate of the University of New Brunswick, B.Sc. (Hons. Geology), 1981 and a graduate of Queen's University, M.Sc. (Minex), 1998.

I have practiced my profession as a geologist for over 35 years in various provinces and territories across Canada as well as Norway.

I am a member in good standing of the Association Professional Geoscientists of Ontario.

I have personal knowledge of the work carried out on the property as described in this report,

I have no personal interest in the property.

Dated this 30th day of September, 2019 at Thunder Bay, Ontario.

A handwritten signature in black ink, appearing to read 'DBS', with a long horizontal stroke extending to the right.

---

David B. Stevenson, M.Sc., P.Geol.



## **Appendix A – Claims List**

**Schedule "A"**  
**Sugar Zone Mining Leases**

Claim #	Twp.	Issued	Anniversary	Area (Ha.)	Reserve	Lease #	Rights	PIN	Reg'd Plan
1069332	HAMBLETON	01-Jun-15	31-May-36	393.38	\$3,828	Lease	CLM514	MR+SR	31054-0003 31054-0004 31054-0005 31054-0006
1069333	HAMBLETON				\$7,320	Lease	CLM514	MR+SR	
1069343	HAMBLETON				\$3,989	Lease	CLM514	MR+SR	
1069344	HAMBLETON				\$851	Lease	CLM514	MR+SR, MRO	
1069345	HAMBLETON				\$3,729	Lease	CLM514	MR+SR, MRO	
1069346	HAMBLETON				\$3,621	Lease	CLM514	MR+SR	
1182993	HAMBLETON				\$1,519	Lease	CLM514	MR+SR	
1232640	GOURLAY				\$302	Lease	CLM514	MR+SR, MRO	
1235595	HAMBLETON				\$3,263	Lease	CLM514	MR+SR, MRO	
1069327	HAMBLETON				01-May-15	30-Apr-36	282.67	\$3,932	
1069328	HAMBLETON	\$6,981	Lease	CLM515				MR+SR	
1069329	HAMBLETON	\$28,415	Lease	CLM515				MR+SR	
1069330	HAMBLETON	\$6,199	Lease	CLM515				MR+SR	
1069331	HAMBLETON	\$7,819	Lease	CLM515				MR+SR	
1069334	HAMBLETON	\$5,851	Lease	CLM515				MR+SR	
1069335	HAMBLETON	\$5,914	Lease	CLM515				MR+SR	
1069336	HAMBLETON	\$32,451	Lease	CLM515				MR+SR	
1069337	HAMBLETON	\$7,427	Lease	CLM515				MR+SR, MRO	
1069338	HAMBLETON	\$1,426	Lease	CLM515				MR+SR, MRO	
1069339	HAMBLETON	\$4,461	Lease	CLM515				MR+SR, MRO	
1069340	HAMBLETON	\$6,587	Lease	CLM515				MR+SR	
1069341	HAMBLETON	\$39,482	Lease	CLM515				MR+SR	
1069342	HAMBLETON	\$120,283	Lease	CLM515				MR+SR	
1069347	HAMBLETON	\$343,207	Lease	CLM515				MR+SR	
1069348	HAMBLETON	\$8,049	Lease	CLM515				MR+SR, MRO	
1069349	HAMBLETON	\$3,569	Lease	CLM515				MR+SR, MRO	
1069350	HAMBLETON	\$7,532	Lease	CLM515				MR+SR, MRO	
1135498	HAMBLETON	\$930,312	Lease	CLM515				MR+SR	
1182994	HAMBLETON	\$1,458,826	Lease	CLM515				MR+SR	
4270162	HAMBLETON				Lease	CLM515	MR+SR		
937770	ODLUM	01-May-15	30-Apr-36	279.83	\$174	Lease	CLM516	MR+SR	31078-0001 Pts. 1-11, 1R-13038
1043803	ODLUM					Lease	CLM516	MR+SR, MRO	
1043811	ODLUM					Lease	CLM516	MR+SR, MRO	
1043812	ODLUM					Lease	CLM516	MR+SR, MRO	
1069356	ODLUM				\$600	Lease	CLM516	MR+SR	
1069357	ODLUM				\$600	Lease	CLM516	MR+SR, MRO	
1069358	ODLUM				\$600	Lease	CLM516	MR+SR, MRO	
1069363	ODLUM				\$382	Lease	CLM516	MR+SR, MRO	
1069364	ODLUM				\$306	Lease	CLM516	MR+SR, MRO	
1069365	ODLUM				\$200	Lease	CLM516	MR+SR, MRO	
1069372	ODLUM					Lease	CLM516	MRO	
1069373	ODLUM					Lease	CLM516	MR+SR, MRO	
1069374	ODLUM				\$102	Lease	CLM516	MR+SR, MRO	
1078250	ODLUM					Lease	CLM516	MR+SR, MRO	
1078251	ODLUM				\$617	Lease	CLM516	MR+SR, MRO	
1078252	ODLUM				\$1,388	Lease	CLM516	MR+SR, MRO	
1135499	HAMBLETON				\$741,876	Lease	CLM516	MR+SR	
1194337	HAMBLETON				\$1,719	Lease	CLM516	MR+SR	
1194340	ODLUM				\$306	Lease	CLM516	MR+SR, MRO	
937771	ODLUM				01-May-15	30-Apr-36	511.38	\$287	
937772	ODLUM	\$174	Lease	CLM517				MR+SR	
1043806	ODLUM		Lease	CLM517				MR+SR, MRO	
1043807	ODLUM		Lease	CLM517				MR+SR	
1043808	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1043809	ODLUM	\$1	Lease	CLM517				MR+SR, MRO	
1043810	ODLUM		Lease	CLM517				MRO	
1069352	HAMBLETON	\$113,438	Lease	CLM517				MR+SR	
1069353	HAMBLETON	\$1,000	Lease	CLM517				MR+SR, MRO	
1069354	ODLUM	\$10,426	Lease	CLM517				MR+SR, MRO	
1069355	ODLUM	\$30,262	Lease	CLM517				MR+SR	
1069366	ODLUM	\$9,613	Lease	CLM517				MR+SR, MRO	
1069367	ODLUM	\$66,094	Lease	CLM517				MR+SR, MRO	
1069368	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1069369	ODLUM	\$200	Lease	CLM517				MR+SR, MRO	
1069370	ODLUM	\$154	Lease	CLM517				MR+SR, MRO	
1069371	ODLUM		Lease	CLM517				MR+SR, MRO	
1140638	STRICKLAND	\$174	Lease	CLM517				MR+SR, MRO	
1140639	STRICKLAND	\$174	Lease	CLM517				MR+SR, MRO	
1140640	STRICKLAND	\$350	Lease	CLM517				MR+SR	
1140641	STRICKLAND		Lease	CLM517	MR+SR				
1140642	STRICKLAND		Lease	CLM517	MR+SR				
1140643	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140644	STRICKLAND		Lease	CLM517	MR+SR				
1140645	STRICKLAND		Lease	CLM517	MR+SR				
1140646	STRICKLAND		Lease	CLM517	MR+SR				
1140647	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140658	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140659	STRICKLAND	\$306	Lease	CLM517	MR+SR				
1140660	STRICKLAND	\$306	Lease	CLM517	MR+SR				
				1467.26					

**Schedule "B"**  
**Sugar Zone - Claims**

Township / Area	Tenure ID	Tenure Type	Anniversary Date	Work Required	Total Reserve
MOSAMBIK	125756	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	293144	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	153728	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	276267	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	226382	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	170250	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	336697	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	221060	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	274244	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	118071	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	117527	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
MOSAMBIK	273605	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
NAMEIGOS	219128	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	286341	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	322925	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	173870	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	117345	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	220366	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	208950	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	102955	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	227074	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	189153	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	170921	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	266283	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	155027	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	267591	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	170388	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	287639	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	125817	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	286384	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	189186	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	125769	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	274252	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	102956	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	102957	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	286342	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	286343	Boundary Cell Mining Claim	2020-01-08	\$200	\$0
NAMEIGOS	225048	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
NAMEIGOS	159665	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
NAMEIGOS	104062	Boundary Cell Mining Claim	2020-01-09	\$200	\$0
NAMEIGOS	344511	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	141005	Boundary Cell Mining Claim	2020-02-16	\$200	\$1,339
NAMEIGOS	281507	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	122945	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	238950	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	319552	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	282751	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	157827	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	134919	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	290157	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	151061	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	133689	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	186239	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	302908	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	186333	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	150356	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
NAMEIGOS	186240	Boundary Cell Mining Claim	2020-02-16	\$200	\$0
ODLUM	205218	Boundary Cell Mining Claim	2019-06-20	\$200	\$0
ODLUM	236538	Boundary Cell Mining Claim	2019-06-20	\$200	\$0
ODLUM	323310	Boundary Cell Mining Claim	2019-06-20	\$200	\$0
ODLUM	113014	Boundary Cell Mining Claim	2019-06-20	\$200	\$0
ODLUM	308490	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	199956	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	137166	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	156716	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	112652	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	142645	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	155301	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ODLUM	168606	Boundary Cell Mining Claim	2019-12-23	\$200	\$0
ABRAHAM	531086	Multi-cell Mining Claim	2020-01-18	\$9,600	\$0
ABRAHAM	531081	Multi-cell Mining Claim	2020-02-22	\$10,000	\$0
ABRAHAM	531082	Multi-cell Mining Claim	2020-02-22	\$9,600	\$0
ABRAHAM	531083	Multi-cell Mining Claim	2020-02-22	\$9,600	\$2,428
ABRAHAM,COOPER	531087	Multi-cell Mining Claim	2020-01-18	\$9,600	\$0
ABRAHAM,COOPER	531084	Multi-cell Mining Claim	2020-03-10	\$9,600	\$0
ABRAHAM,COOPER,TEDDER	531096	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
ABRAHAM,TEDDER	531094	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
ABRAHAM,TEDDER	531095	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0

ABRAHAM, TEDDER	531048	Multi-cell Mining Claim	2020-02-22	\$9,000	\$0
ABRAHAM, TEDDER	531080	Multi-cell Mining Claim	2020-02-22	\$9,600	\$0
BAYFIELD	531235	Multi-cell Mining Claim	2019-12-22	\$8,000	\$74
BAYFIELD	531236	Multi-cell Mining Claim	2019-12-22	\$8,000	\$0
BAYFIELD	531237	Multi-cell Mining Claim	2019-12-22	\$8,000	\$0
BAYFIELD	531238	Multi-cell Mining Claim	2019-12-22	\$9,200	\$0
BAYFIELD	531239	Multi-cell Mining Claim	2019-12-22	\$1,600	\$0
BAYFIELD, GOURLAY	531233	Multi-cell Mining Claim	2019-12-22	\$10,000	\$0
BAYFIELD, GOURLAY	531234	Multi-cell Mining Claim	2019-12-22	\$8,000	\$0
BAYFIELD, GOURLAY, HAMBLETON	531240	Multi-cell Mining Claim	2019-12-22	\$9,600	\$0
BAYFIELD, HAMBLETON, MATT	531242	Multi-cell Mining Claim	2019-12-17	\$8,000	\$0
COOPER	531139	Multi-cell Mining Claim	2020-01-09	\$9,200	\$0
COOPER	531112	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
COOPER	531163	Multi-cell Mining Claim	2020-01-09	\$6,000	\$0
COOPER	531115	Multi-cell Mining Claim	2020-01-10	\$9,200	\$0
COOPER	531116	Multi-cell Mining Claim	2020-01-10	\$9,600	\$0
COOPER	531117	Multi-cell Mining Claim	2020-01-10	\$10,000	\$2,829
COOPER	531118	Multi-cell Mining Claim	2020-01-10	\$10,000	\$0
COOPER	531085	Multi-cell Mining Claim	2020-03-10	\$9,600	\$0
COOPER	531088	Multi-cell Mining Claim	2020-03-10	\$9,600	\$0
COOPER	531089	Multi-cell Mining Claim	2020-03-10	\$8,000	\$0
COOPER	531090	Multi-cell Mining Claim	2020-03-10	\$9,600	\$2,410
COOPER	531091	Multi-cell Mining Claim	2020-03-10	\$9,600	\$0
COOPER	531092	Multi-cell Mining Claim	2020-03-10	\$9,600	\$8
COOPER	531093	Multi-cell Mining Claim	2020-03-10	\$10,000	\$0
COOPER	531113	Multi-cell Mining Claim	2020-03-10	\$10,000	\$0
COOPER	531114	Multi-cell Mining Claim	2020-03-10	\$10,000	\$2,309
COOPER, STRICKLAND	531166	Multi-cell Mining Claim	2020-01-09	\$800	\$0
COOPER, STRICKLAND	531119	Multi-cell Mining Claim	2020-01-10	\$8,000	\$0
COOPER, STRICKLAND	531120	Multi-cell Mining Claim	2020-01-10	\$6,000	\$0
COOPER, STRICKLAND	531121	Multi-cell Mining Claim	2020-01-10	\$6,400	\$0
COOPER, STRICKLAND	531164	Multi-cell Mining Claim	2020-01-10	\$7,200	\$0
COOPER, STRICKLAND	531165	Multi-cell Mining Claim	2020-04-21	\$5,200	\$0
COOPER, STRICKLAND, TEDDER	531152	Multi-cell Mining Claim	2020-01-09	\$6,800	\$0
COOPER, TEDDER	531151	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
COOPER, TEDDER	531111	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
COOPER, TEDDER	531097	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
COOPER, TEDDER	531100	Multi-cell Mining Claim	2020-01-09	\$9,600	\$0
GOURLAY	531220	Multi-cell Mining Claim	2019-12-03	\$9,600	\$2,964
GOURLAY	531225	Multi-cell Mining Claim	2019-12-03	\$9,600	\$891
GOURLAY	531229	Multi-cell Mining Claim	2019-12-03	\$10,000	\$4,154
GOURLAY	531231	Multi-cell Mining Claim	2019-12-03	\$10,000	\$7,260
GOURLAY	531232	Multi-cell Mining Claim	2019-12-22	\$9,600	\$0
GOURLAY, HAMBLETON	531219	Multi-cell Mining Claim	2019-11-20	\$9,200	\$2,615
GOURLAY, HAMBLETON	531224	Multi-cell Mining Claim	2019-12-03	\$9,600	\$1,774
GOURLAY, HAMBLETON	531226	Multi-cell Mining Claim	2019-12-03	\$10,000	\$2,337
GOURLAY, HAMBLETON	531230	Multi-cell Mining Claim	2019-12-03	\$8,800	\$4,898
GOURLAY, HAMBLETON	531243	Multi-cell Mining Claim	2019-12-03	\$10,000	\$2,913
GOURLAY, HAMBLETON	531241	Multi-cell Mining Claim	2019-12-17	\$9,600	\$6,343
GOURLAY, HAMBLETON, STRICKLAND	531222	Multi-cell Mining Claim	2019-12-03	\$6,200	\$0
GOURLAY, STRICKLAND	531221	Multi-cell Mining Claim	2019-12-03	\$10,000	\$0
HAMBLETON	531254	Multi-cell Mining Claim	2019-06-13	\$9,600	\$6,152
HAMBLETON	531255	Multi-cell Mining Claim	2019-06-13	\$10,000	\$6,288
HAMBLETON	531256	Multi-cell Mining Claim	2019-06-13	\$10,000	\$8,118
HAMBLETON	531258	Multi-cell Mining Claim	2019-06-13	\$4,800	\$3,900
HAMBLETON	531269	Multi-cell Mining Claim	2019-06-13	\$1,200	\$0
HAMBLETON	531214	Multi-cell Mining Claim	2019-07-20	\$2,400	\$243,686
HAMBLETON	531228	Multi-cell Mining Claim	2019-12-03	\$6,000	\$1,879
HAMBLETON	531264	Multi-cell Mining Claim	2019-12-17	\$9,600	\$850
HAMBLETON	531244	Multi-cell Mining Claim	2019-12-17	\$10,000	\$0
HAMBLETON	531245	Multi-cell Mining Claim	2019-12-17	\$9,600	\$0
HAMBLETON	531246	Multi-cell Mining Claim	2019-12-17	\$9,600	\$0
HAMBLETON	531247	Multi-cell Mining Claim	2019-12-17	\$9,600	\$0
HAMBLETON	531210	Multi-cell Mining Claim	2019-12-23	\$6,800	\$4,399
HAMBLETON	531249	Multi-cell Mining Claim	2019-12-23	\$1,200	\$0
HAMBLETON	531257	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
HAMBLETON	531268	Multi-cell Mining Claim	2019-12-23	\$4,000	\$0
HAMBLETON	531212	Multi-cell Mining Claim	2019-12-31	\$7,200	\$58,751
HAMBLETON	531215	Multi-cell Mining Claim	2019-12-31	\$3,600	\$213,133
HAMBLETON	531216	Multi-cell Mining Claim	2019-12-31	\$1,000	\$546,949
HAMBLETON	531217	Multi-cell Mining Claim	2019-12-31	\$2,200	\$471,385
HAMBLETON	531218	Multi-cell Mining Claim	2019-12-31	\$1,800	\$110,673
HAMBLETON	531227	Multi-cell Mining Claim	2020-04-21	\$5,600	\$1,553
HAMBLETON	531248	Multi-cell Mining Claim	2020-04-21	\$10,000	\$0
HAMBLETON	531265	Multi-cell Mining Claim	2020-04-21	\$10,000	\$0
HAMBLETON	531266	Multi-cell Mining Claim	2020-04-21	\$5,600	\$0
HAMBLETON	531267	Multi-cell Mining Claim	2020-04-21	\$5,600	\$0
HAMBLETON	531211	Multi-cell Mining Claim	2021-12-23	\$3,200	\$2,381
HAMBLETON	531259	Multi-cell Mining Claim	2022-12-23	\$1,200	\$851

HAMBLETON,ODLUM	531209	Multi-cell Mining Claim	2019-12-23	\$2,400	\$3,007
HAMBLETON,ODLUM	531208	Multi-cell Mining Claim	2019-12-31	\$5,200	\$578
HAMBLETON,ODLUM	531206	Multi-cell Mining Claim	2020-04-26	\$8,200	\$419,784
JOHNS	530313	Multi-cell Mining Claim	2019-06-20	\$6,400	\$4,084
JOHNS	530314	Multi-cell Mining Claim	2019-06-20	\$6,400	\$3,989
JOHNS	530315	Multi-cell Mining Claim	2019-06-20	\$7,200	\$8,147
JOHNS	530316	Multi-cell Mining Claim	2019-06-20	\$10,000	\$7,432
JOHNS	530317	Multi-cell Mining Claim	2019-06-20	\$7,200	\$1,858
JOHNS	531017	Multi-cell Mining Claim	2019-06-20	\$9,600	\$10,643
JOHNS	531018	Multi-cell Mining Claim	2019-06-20	\$10,000	\$1,750
JOHNS,ODLUM	530318	Multi-cell Mining Claim	2019-06-20	\$7,200	\$3,955
JOHNS,ODLUM	531019	Multi-cell Mining Claim	2019-06-20	\$9,600	\$3,654
JOHNS,ODLUM	531020	Multi-cell Mining Claim	2019-06-20	\$10,000	\$1,750
MOSAMBIK	531287	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
MOSAMBIK	531348	Multi-cell Mining Claim	2020-01-09	\$8,800	\$0
MOSAMBIK	532869	Multi-cell Mining Claim	2020-04-10	\$8,000	\$0
MOSAMBIK,NAMEIGOS	531286	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
MOSAMBIK,NAMEIGOS	531288	Multi-cell Mining Claim	2020-01-09	\$8,400	\$0
MOSAMBIK,NAMEIGOS	531347	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
MOSAMBIK,NAMEIGOS	531349	Multi-cell Mining Claim	2020-01-09	\$6,400	\$0
MOSAMBIK,NAMEIGOS	531350	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
NAMEIGOS	531340	Multi-cell Mining Claim	2019-06-13	\$6,800	\$6,473
NAMEIGOS	531335	Multi-cell Mining Claim	2019-06-13	\$10,000	\$2,377
NAMEIGOS	531342	Multi-cell Mining Claim	2019-06-13	\$8,000	\$4,097
NAMEIGOS	531343	Multi-cell Mining Claim	2019-06-13	\$8,000	\$5,623
NAMEIGOS	531344	Multi-cell Mining Claim	2019-06-13	\$7,200	\$8,195
NAMEIGOS	531283	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
NAMEIGOS	531284	Multi-cell Mining Claim	2020-01-09	\$9,200	\$0
NAMEIGOS	531285	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
NAMEIGOS	531351	Multi-cell Mining Claim	2020-01-09	\$9,600	\$0
NAMEIGOS	531352	Multi-cell Mining Claim	2020-01-09	\$10,000	\$0
NAMEIGOS	531332	Multi-cell Mining Claim	2020-02-16	\$9,600	\$0
NAMEIGOS	531333	Multi-cell Mining Claim	2020-02-16	\$4,800	\$0
NAMEIGOS	531334	Multi-cell Mining Claim	2020-02-16	\$10,000	\$0
NAMEIGOS	531336	Multi-cell Mining Claim	2020-02-16	\$9,200	\$0
NAMEIGOS	531337	Multi-cell Mining Claim	2020-02-16	\$9,200	\$0
NAMEIGOS	531338	Multi-cell Mining Claim	2020-02-16	\$9,600	\$0
NAMEIGOS	531341	Multi-cell Mining Claim	2020-02-16	\$800	\$0
NAMEIGOS	531345	Multi-cell Mining Claim	2020-02-16	\$800	\$0
NAMEIGOS	531346	Multi-cell Mining Claim	2020-02-16	\$1,600	\$2,096
NAMEIGOS	531331	Multi-cell Mining Claim	2020-04-11	\$7,600	\$0
NAMEIGOS	531281	Multi-cell Mining Claim	2020-04-11	\$10,000	\$0
NAMEIGOS	531282	Multi-cell Mining Claim	2020-04-11	\$9,600	\$0
NAMEIGOS	531289	Multi-cell Mining Claim	2020-04-11	\$5,600	\$0
NAMEIGOS,STRICKLAND	531276	Multi-cell Mining Claim	2020-02-22	\$10,000	\$0
NAMEIGOS,STRICKLAND	531279	Multi-cell Mining Claim	2020-02-22	\$4,000	\$0
NAMEIGOS,STRICKLAND	531280	Multi-cell Mining Claim	2020-04-11	\$9,600	\$0
ODLUM	531016	Multi-cell Mining Claim	2019-06-20	\$10,000	\$2,167
ODLUM	531021	Multi-cell Mining Claim	2019-06-20	\$10,000	\$7,963
ODLUM	531024	Multi-cell Mining Claim	2019-06-20	\$10,000	\$6,270
ODLUM	531025	Multi-cell Mining Claim	2019-06-20	\$9,600	\$4,018
ODLUM	531207	Multi-cell Mining Claim	2019-07-02	\$1,600	\$38,911
ODLUM	531201	Multi-cell Mining Claim	2019-10-29	\$2,000	\$1,713
ODLUM	531026	Multi-cell Mining Claim	2019-12-23	\$10,000	\$151
ODLUM	531182	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
ODLUM	531199	Multi-cell Mining Claim	2019-12-23	\$800	\$0
ODLUM	531200	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
ODLUM	531202	Multi-cell Mining Claim	2019-12-23	\$9,200	\$416
ODLUM	531203	Multi-cell Mining Claim	2019-12-31	\$7,000	\$1,479
ODLUM	531204	Multi-cell Mining Claim	2019-12-31	\$3,800	\$0
ODLUM	531205	Multi-cell Mining Claim	2020-03-27	\$4,800	\$66,972
ODLUM	531183	Multi-cell Mining Claim	2020-04-21	\$9,600	\$0
ODLUM	531198	Multi-cell Mining Claim	2020-04-21	\$7,600	\$0
ODLUM,STRICKLAND	531270	Multi-cell Mining Claim	2019-12-03	\$5,000	\$4,323
ODLUM,STRICKLAND	531184	Multi-cell Mining Claim	2020-04-21	\$9,600	\$0
ODLUM,STRICKLAND	531197	Multi-cell Mining Claim	2020-04-21	\$9,600	\$0
ODLUM,STRICKLAND,TEDDER	531175	Multi-cell Mining Claim	2020-04-21	\$10,000	\$0
ODLUM,TEDDER	531022	Multi-cell Mining Claim	2019-06-20	\$8,800	\$8,157
ODLUM,TEDDER	531023	Multi-cell Mining Claim	2019-06-20	\$9,600	\$5,911
ODLUM,TEDDER	531027	Multi-cell Mining Claim	2019-12-23	\$9,600	\$0
ODLUM,TEDDER	531154	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
ODLUM,TEDDER	531173	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
ODLUM,TEDDER	531174	Multi-cell Mining Claim	2019-12-23	\$9,600	\$0
STRICKLAND	531162	Multi-cell Mining Claim	2019-11-16	\$9,600	\$0
STRICKLAND	531168	Multi-cell Mining Claim	2019-11-16	\$10,000	\$0
STRICKLAND	531177	Multi-cell Mining Claim	2019-11-16	\$9,600	\$0
STRICKLAND	531178	Multi-cell Mining Claim	2019-11-16	\$10,000	\$0
STRICKLAND	531180	Multi-cell Mining Claim	2019-11-16	\$9,200	\$0
STRICKLAND	531271	Multi-cell Mining Claim	2019-11-16	\$8,000	\$0


STRICKLAND	531273	Multi-cell Mining Claim	2019-11-16	\$10,000	\$0
STRICKLAND	531274	Multi-cell Mining Claim	2019-11-16	\$10,000	\$0
STRICKLAND	531275	Multi-cell Mining Claim	2019-11-16	\$8,400	\$0
STRICKLAND	531278	Multi-cell Mining Claim	2019-11-16	\$800	\$0
STRICKLAND	531195	Multi-cell Mining Claim	2019-12-03	\$8,800	\$3,651
STRICKLAND	531167	Multi-cell Mining Claim	2019-12-03	\$8,400	\$6,945
STRICKLAND	531170	Multi-cell Mining Claim	2019-12-03	\$9,200	\$1,763
STRICKLAND	531176	Multi-cell Mining Claim	2019-12-03	\$10,000	\$4,122
STRICKLAND	531179	Multi-cell Mining Claim	2019-12-03	\$8,400	\$0
STRICKLAND	531181	Multi-cell Mining Claim	2019-12-03	\$9,600	\$0
STRICKLAND	531185	Multi-cell Mining Claim	2019-12-03	\$9,600	\$5,886
STRICKLAND	531196	Multi-cell Mining Claim	2019-12-03	\$8,800	\$0
STRICKLAND	531223	Multi-cell Mining Claim	2019-12-03	\$7,400	\$3,197
STRICKLAND	531272	Multi-cell Mining Claim	2019-12-03	\$1,200	\$0
STRICKLAND	531160	Multi-cell Mining Claim	2020-02-22	\$8,400	\$0
STRICKLAND	531161	Multi-cell Mining Claim	2020-02-22	\$8,400	\$0
STRICKLAND	531277	Multi-cell Mining Claim	2020-02-22	\$7,200	\$0
STRICKLAND	531157	Multi-cell Mining Claim	2020-04-21	\$10,000	\$0
STRICKLAND, TEDDER	531156	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
STRICKLAND, TEDDER	531169	Multi-cell Mining Claim	2020-04-21	\$8,800	\$200
STRICKLAND, TEDDER	531171	Multi-cell Mining Claim	2020-04-21	\$8,800	\$0
TEDDER	531031	Multi-cell Mining Claim	2019-12-23	\$9,600	\$0
TEDDER	531153	Multi-cell Mining Claim	2019-12-23	\$8,800	\$0
TEDDER	531155	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
TEDDER	531172	Multi-cell Mining Claim	2019-12-23	\$10,000	\$0
TEDDER	531079	Multi-cell Mining Claim	2020-01-09	\$9,200	\$0
TEDDER	531046	Multi-cell Mining Claim	2020-01-09	\$8,800	\$346
TEDDER	531047	Multi-cell Mining Claim	2020-01-09	\$9,600	\$0
TEDDER	531098	Multi-cell Mining Claim	2020-01-09	\$9,600	\$0
TEDDER	531099	Multi-cell Mining Claim	2020-01-09	\$9,600	\$0
COOPER	531126	Single Cell Mining Claim	2020-01-09	\$400	\$0
MOSAMBIK	273604	Single Cell Mining Claim	2020-01-09	\$400	\$0
MOSAMBIK	188477	Single Cell Mining Claim	2020-01-09	\$400	\$0
MOSAMBIK, NAMEIGOS	265657	Single Cell Mining Claim	2020-01-09	\$400	\$0
MOSAMBIK, NAMEIGOS	344618	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	335993	Single Cell Mining Claim	2020-01-08	\$400	\$0
NAMEIGOS	208958	Single Cell Mining Claim	2020-01-08	\$400	\$0
NAMEIGOS	220373	Single Cell Mining Claim	2020-01-08	\$400	\$0
NAMEIGOS	102261	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	127131	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	229063	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	154316	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	103256	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	118285	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	219164	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	276303	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	125852	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	170953	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	286410	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	189211	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531316	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531309	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	118287	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531304	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	170954	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531290	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531291	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531292	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531293	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531294	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531295	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531296	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531297	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531298	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531299	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531300	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531301	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531302	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531305	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531306	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	531317	Single Cell Mining Claim	2020-01-09	\$400	\$0
NAMEIGOS	514033	Single Cell Mining Claim	2020-04-11	\$400	\$0
NAMEIGOS	514035	Single Cell Mining Claim	2020-04-11	\$400	\$0
STRICKLAND	110507	Single Cell Mining Claim	2019-12-03	\$200	\$0

**Schedule "C"**  
**Halverson Property**

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Work Required	Total Reserve
4281896	ODLUM	136581	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	334503	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	255919	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	237877	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	220822	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	220821	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	209284	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	209282	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	201257	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	171296	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	142560	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	136582	Boundary Cell Mining Claim	2021-02-06	\$200	\$0
4281896	ODLUM	324599	Single Cell Mining Claim	2021-02-06	\$400	\$0
4281896	ODLUM	255918	Single Cell Mining Claim	2021-02-06	\$400	\$0
4281896	ODLUM	255917	Single Cell Mining Claim	2021-02-06	\$400	\$223
4281896	ODLUM	209283	Single Cell Mining Claim	2021-02-06	\$400	\$0

**Appendix B – Hambleton Grid – 2018 & 2019 Drill Logs**




		Hole Number:		HG-18-18			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:	
Surface					18-Oct-2018	21-Oct-2018	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643430						
Northing	5412365	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)	150				19-Oct-2018	22-Oct-2018	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	342.00	Logger 1:	Geoff Podrucky		
Easting				Logger 2:	Andrew Wehrfritz		
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing	Cemented						
Purpose of Hole	Testing an IP chargeability-VLF anomaly	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		18.0	86.3	-49.8	56303		93.9
		48.0	82.4	-48.4	54324		90
Results	Patchy and disseminated po from 271 to 282m.	78.0	88.3	-47.7	55789		95.9
		108.0	86.7	-46.9	55861		94.3
		138.0	86.9	-45.4	55832		94.5
		168.0	86.9	-45.4	55832		94.5
		198.0	86.2	-44.6	55652		93.8
		228.0	85.6	-43.5	55740		93.2
Comments	Andrew started logging from 283m.	258.0	87.8	-43.1	55676		95.4
		288.0	84.4	-41.5	55717		92
		318.0	84.6	-40.8	55897		92.2
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-18-18	0	3	3	CAS	Casing	
HG-18-18	3	44.32	41.32	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (70-75 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit with local patches of garnet. 3-5% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Local vuggy and oxidized fractures observed, up to 1-2 mm wide and filled with carbonate, cutting core at various angles. Weakly to moderately blocky core. 1% minor cm-scale iron formations observed. Sharp lower contact.
HG-18-18	44.32	45.78	1.46	4B	Feldspar Porphyry	Dark purplish-grey to grey, fine- to coarse-grained feldspar porphyry. Weak foliation (75-80 deg TCA) defined by moderate disseminated biotite. Weak pervasive silicification and patches to fracture-controlled (cutting core at various angles) sericitization/bleaching throughout unit. Feldspar phenocrysts, weakly stretched/lineated. Sharp lower contact.
HG-18-18	45.78	49.26	3.48	1UT	Ultramafic Talc/Chlorite Altered	Dark grey to grey, fine-grained, massive ultramafic. Moderate pervasive talc with weak to moderate pervasive chlorite alteration. Local fractures observed, up to 1-2 mm wide and filled with carbonate, cutting core at various angles. 3-5% minor cm-scale iron formations observed. Sharp lower contact.
HG-18-18	49.26	112.4	63.14	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Locally grading into coarse-grained with a gabbroic texture. Weak to moderate foliation (75 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit with local patches of garnet. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Local fractures observed, up to 1-2 mm wide and filled with carbonate, cutting core at various angles. 3-5% minor cm-scale iron formations observed. Trace blebby pyrite and disseminated pyrrhotite throughout unit. Moderate patchy silicification with 1-5% disseminated pyrrhotite from 62.5-63.09m, 66.46-67.24 and 75.7-77.06m. Gradational lower contact.
HG-18-18	112.4	115.53	3.13	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained banded mafic flow. Moderate foliation (75 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Moderate patchy to banded chlorite-biotite throughout unit. 2-3% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Gradational lower contact.
HG-18-18	115.53	124.52	8.99	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit with local patches of garnet. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Gradational lower contact.
HG-18-18	124.52	161.72	37.2	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained banded mafic flow. Moderate foliation (80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Moderate patchy to banded chlorite-biotite throughout unit. 7-8% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Trace disseminated pyrite/pyrrhotite throughout unit. 1% minor cm-scale feldspar porphyry dykes observed. Gradational lower contact.
HG-18-18	161.72	168.49	6.77	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite-silicification throughout unit with local patches of garnet. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Minor fault (70 deg TCA) with gouge at 165.29-165.31m. Gradational lower contact.
HG-18-18	168.49	170.37	1.88	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained banded mafic flow. Moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Moderate patchy to banded chlorite with weak to moderate patchy to banded biotite throughout unit. 2-3% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Trace (to 1% locally) disseminated and blebby pyrrhotite throughout unit. Gradational lower contact.
HG-18-18	170.37	271.46	101.09	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite-silicification throughout unit. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Moderately to strongly magnetic from 180-197m. 1-2% blebby pyrite (up to 2-3mm wide) from 237-239m. Trace disseminated pyrite from 239-271.46m. Gradational lower contact.

HG-18-18	271.46	286.13	14.67	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained banded mafic flow. Moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Moderate patchy to banded chlorite-sericite with weak to moderate patchy to banded biotite throughout unit. 3-5% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. 1% disseminated and blebby pyrrhotite, occurring of patches, usually concentrated in patchy alteration. Gradational lower contact.
HG-18-18	286.13	294.78	8.65	1B	Pillowed Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Light green, millimetric to centimetric wide pillow selvage formations composed of chlorite and possibly some epidote.
HG-18-18	294.78	301.28	6.5	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric.
HG-18-18	301.28	315	13.72	1B	Pillowed Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Light green, millimetric to centimetric wide pillow selvage formations composed of chlorite and possibly some epidote. Two quartz veins at 303.43 to 303.5 and 303.54 to 303.62. Series of quartz veinlets from 314.5 to 315m
HG-18-18	315	342	27	1A	Massive Flows	Dark greenish-grey, fine- to medium-grained massive flow. Weak to moderate foliation (75-80 deg TCA) defined by banded alteration and matrix of amphibole and biotite. Weak patchy to banded chlorite-biotite throughout unit. 1-2% mm-cm scale quartz carb stringers/veinlets, mostly parallel to fabric. Intermittent pillow selvages. Quartz flooded pillow selvage/ vein with minor amounts of blebby py and po from 334.7 to 334.73m.
HG-18-18	342	342	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	34.75	35.25	0.5	785248	0.01	10
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	51.12	51.7	0.58	785249	0.022	22
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	OREAS 210				785250	5.31	5310
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	61.5	62.5	1	785251	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	62.5	63.1	0.6	785252	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	63.1	64	0.9	785253	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	66.44	67.29	0.85	785254	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	75.7	76.45	0.75	785255	0.007	7
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	76.45	77.06	0.61	785256	0.017	17
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	81	82	1	785257	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	92.7	93.3	0.6	785258	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	159.07	160.07	1	785259	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Blank				785260	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	167.49	168.49	1	785261	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	168.49	169.43	0.94	785262	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	169.43	170.37	0.94	785263	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	170.37	171	0.63	785264	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	237	238	1	785265	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	238	239	1	785266	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	270.46	271.46	1	785267	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	271.46	272.46	1	785268	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	272.46	273.46	1	785269	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	OREAS 215				785270	3.47	3470
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	273.46	274.46	1	785271	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	274.46	275.46	1	785272	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	275.46	276.46	1	785273	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	276.46	277.13	0.67	785274	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	277.13	278.13	1	785275	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	278.13	279.13	1	785276	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	279.13	280.13	1	785277	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	280.13	281.13	1	785278	0.0025	< 5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	281.13	282.13	1	785279	0.006	6
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Blank				785280	0.0025	< 5

HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	333.6	334.61	1.01	785281	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	334.61	334.93	0.32	785282	0.005	5
HG-18-18	Regional	Actlabs	A18-16718	05-Nov-18	07-Dec-18	Assay	334.93	336	1.07	785283	0.013	13


		Hole Number:		HG-18-19			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface						Oct-22-2018	Oct-25-2018
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643525						
Northing	5411665	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					Oct-23-2018	Oct-29-2018	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	411.00	Logger 1:	Andrew Wehrfritz		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Drill hole to further investigate a VLF anomaly in the Hambleton Lake area.	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		30.0	90.2	-50.3	56352		97.8
		60.0	88.2	-49.7	56099		95.8
Results	Section of altered mafic flows intersected from 42.7 to 50.38 containing up to 1% disseminated sulphides	90.0	87.9	-49.1	56151		95.5
		120.0	89.2	-48.3	56017		96.8
		150.0	87.9	-47.9	55948		95.5
		180.0	87.6	-47.5	55939		95.2
		210.0	89.0	-47.3	55937		96.6
		240.0	87.7	-46.9	55841		95.3
Comments		270.0	87.6	-46.3	55957		95.2
		300.0	87.8	-45.8	55834		95.4
		330.0	87.3	-44.4	56036		94.9
		360.0	88.0	-43.7	56264		95.6
		390.0	87.4	-43.2	55876		95
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-18-19	0	15	15	CAS	Casing	
HG-18-19	15	42.7	27.7	1B	Pillowed Flows	fg to mg, dark grey to dark green mafic unit. ~5% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps sporadically throughout. Blocky core from 32 to 33.
HG-18-19	42.7	50.38	7.68	1ALT	Altered Mafic Volcanic	fg, dark grey to dark green mafic unit with a banded texture. ~10% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. A high degree of banded biotite alteration. Up to approximately 1% disseminated sulphides throughout. Calcite/qtz stringers, wisps sporadically throughout. Unit appears bleached to a light grey colour from 47.8 to 49.6; textures and structures difficult to see in this interval.
HG-18-19	50.38	51.57	1.19	3D	Iron Formation	fg, light grey unit with a massive to banded texture and a slight purple hue. Unit is primarily intermediate in composition with darker banded areas containing higher concentrations of mafic minerals. Sericite alteration disseminated throughout the majority of the unit. Po stringers from 51 to 51.57; approximately 4% sulphides in this interval.
HG-18-19	51.57	109.33	57.76	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics ranging from fine grained to medium grained; massive texture. Finer grained feldspar surrounding mafics in areas. Slightly gabbroic texture in areas. Frequent quartz and carbonate stringers throughout. Minor amounts of banded biotite alteration in sections.
HG-18-19	109.33	171	61.67	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps frequently throughout. increased biotite banding from 109.33 to 113m. Series of quartz-carb stringers and veinlets from 111.6 to 111.8 with minor amounts of blebby sulphides (po and py<<1%). \minor amounts of disseminated garnet intermittently. Gradational lower contact
HG-18-19	171	269	98	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics ranging from fine grained to medium grained; massive texture. Finer grained feldspar surrounding mafics in areas. Slightly gabbroic texture in areas. Gradational upper contact; some pillow selvage formations at the top of the unit. Occasional pillow selvage formation throughout. Frequent quartz and carbonate stringers throughout. Minor to moderate biotite banding from 181.5 to 182.5, 194 to 194.8, 223.2 to 223.8 associated with minor amounts of blebby sulphides (<<1%). Quartz flooding from 217 to 217.4m; this section associated with mafic fragments suspended in a quartz matrix; occasional garnet crystals. py veinlet at 264.5 associated with a narrow epidote and quartz filled healed fractures. Blebby sulphides <<1% (py, po and cpy) from 264 to 267.83
HG-18-19	269	302.16	33.16	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5-15% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps frequently throughout. Clusters of millimetric sized garnets occasionally from 293 to 299.
HG-18-19	302.16	315	12.84	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics ranging from fine grained to medium grained; massive texture. Finer grained feldspar surrounding mafics in areas. Slightly gabbroic texture in areas. Gradational upper contact
HG-18-19	315	351	36	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5-15% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps frequently throughout. Clusters of millimetric sized garnets occasionally from 293 to 299.
HG-18-19	351	411	60	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics ranging from fine grained to medium grained; massive texture. Finer grained feldspar surrounding mafics in areas. Slightly gabbroic texture in areas. Gradational upper contact. Intermittent quartz stringers/veinlets and veins throughout. Narrow intermediate dyke from 362.5 to 362.65.
HG-18-19	411	411	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	42	42.7	0.7	785284	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	42.7	43.5	0.8	785285	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	43.5	44	0.5	785286	0.005	5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	45	46	1	785287	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	46	47	1	785288	0.005	5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	47	47.8	0.8	785289	0.005	5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	OREAS 216				785290	6.63	6630
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	47.8	48.5	0.7	785291	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	48.5	49.6	1.1	785292	0.008	8
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	49.6	50.38	0.78	785293	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	50.38	51	0.62	785294	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	51	51.57	0.57	785295	0.012	12
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	51.57	52	0.43	785296	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	52	53	1	785297	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	53	54	1	785298	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	44	45	1	785299	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Blank				785300	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	111	111.53	0.53	785301	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	111.53	112.13	0.6	785302	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	112.13	113	0.87	785303	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	129	129.69	0.69	785304	0.008	8
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	129.69	130.1	0.41	785305	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	130.1	131	0.9	785306	0.008	8
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	193	194	1	785307	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	194	195	1	785308	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	195	196	1	785309	0.012	12
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	OREAS 210			0	785310	5.62	5620
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	216	217	1	785311	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	217	217.4	0.4	785312	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	217.4	218	0.6	785313	0.01	10
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	218	219	1	785314	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	222	223	1	785315	0.006	6
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	223	223.9	0.9	785316	0.01	10
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	223.9	225	1.1	785317	0.012	12
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	263	264	1	785318	0.005	5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	264	265	1	785319	0.007	7
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Blank			0	785320	0.005	5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	265	266	1	785321	0.0025	< 5
HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	266	267	1	785322	0.007	7



HG-18-19	Hambleton Grid	Actlabs	A18-16716	05-Nov-18	03-Dec-18	Assay	267	267.83	0.83	785323	0.005	5
----------	----------------	---------	-----------	-----------	-----------	-------	-----	--------	------	--------	-------	---


		Hole Number:		HG-18-20					
		Drill Rig:		HC-150-16					
		Claim Number:							
Location		Drill Hole Orientation		Dates Drilled:	Start Date:		End Date:		
Surface					Oct-27-2018		Oct 29 2018		
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	125	Drill Contractor:	Forages Chibougamau Ltée				
Easting	643331								
Northing	5414720	Dip:	-50	Dates Logged:	Start Date:		End Date:		
Elevation(m)					Oct-28-2018		Nov-01-2018		
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	342.00	Logger 1:	Andrew Wehrfritz				
Easting				Logger 2:					
Northing		Core Size:	NQ	Logger 3:					
Elevation(m)				Assay Lab:	Actlabs				
Casing				Dip Tests					
Purpose of Hole	Further investigation of an IP anomaly in the Hambleton Grid.	Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.		
		24.0	186.5	-50.1	22682		194.1		
		54.0	118.8	-49.8	55828		126.4		
Results	Sulphide rich iron formations ( up to 4% sulphides ) intersect pillowed mafics flows in several sections between 24.82m to 79.67m.	84.0	116.7	-49.2	58173		124.3		
		114.0	117.3	-48.7	55993		124.9		
		144.0	115.7	-48.3	56026		123.3		
		174.0	115.9	-47.8	56724		123.5		
		204.0	115.9	-46.8	56529		123.5		
		234.0	115.5	-45.9	56132		123.1		
Comments		264.0	115.9	-45.6	56094		123.5		
		294.0	115.5	-44.9	56124		123.1		
		324.0	115.0	-44.1	56202		122.6		
			-7.6						
			-7.6						
			-7.6						
Azimuth corrected to 7.6 degrees west declination			-7.6						
			-7.6						
			-7.6						

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-18-20	0	9	9	CAS	Casing	Casing
HG-18-20	9	17	8	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5 to 10% millimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps sporadically throughout. Blocky core from 13 to 17m; minor amounts of sulphides along fractures within this section; <<1% overall.
HG-18-20	17	24.82	7.82	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics; some coarse grained mafics from 19 to 21 which produce a gabbroic texture. Finer grained feldspar surrounding mafics in areas. Biotite alteration interstitially.
HG-18-20	24.82	79.67	54.85	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5 to 10% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps sporadically throughout. Millimetric to centimetric wide biotite banding from 25.35 to 26. Narrow mineralized iron formation from 24.82 to 25.35. {Iron formation is: fg, grey with a slight purple hue and banded texture, it is predominately felsic in composition with darker narrow lineations that are mafic in composition. Up to 5% sulphides in this interval in the form of stringers and fine lineations (Sulphide composition is predominately py and cpy). Several Smokey quartz veinlets within the iron formation, some of which are mineralized.} Frequent feldspar porphyry narrow intrusions throughout units. Feldspar porphyry intrusion from 36.35 to 36.59 contains a series of quartz stringers and up to .5% sulphide mineralization.
HG-18-20	79.67	95.9	16.23	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics. Finer grained feldspar surrounding mafics in areas. Biotite alteration interstitially. Narrow mineralized iron formation from 79.11 to 79.5, 90.7 to 90.81, 90.9 to 91.06, and 93 to 93.48. {Iron formations are: fg, grey with a slight purple hue and banded texture. Unit is predominately felsic in composition with darker narrow lineations that are mafic in composition. Up to 5% sulphides in the form of stringers and fine lineations. Sulphide composition is predominately py and po with lesser cpy.} Fractured core from 82 to 90 meters (up to 10 fractures per meter); magnetic properties in this interval as well.

HG-18-20	95.9	173.65	77.75	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5 to 10% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps sporadically throughout. Narrow iron formations containing sulphide stringers (cpy, py and po) from 157.35 to 157.5 and 167.8 to 168; up to 3% sulphides in this interval. Blocky core from 170 to 173.65 (up to 20 fractures per meter).
HG-18-20	173.65	215.5	41.85	1A	Massive Flows	fg to mg, dark grey to dark green unit, composed primarily of mafics; Finer grained feldspar surrounding mafics in areas. Biotite alteration interstitially. Unit coarsens from 176 to 180 and contains a gabbroic texture. Blocky core from 173.65 to 175 and from 188 to 192 with up to 20 fractures per meter. Blebby py intermittently throughout unit from 185 to 198 (<<1%). Blocky core from 201 to 202.
HG-18-20	215.5	301.52	86.02	6B	Gabbro	fg to cg, dark grey to dark green unit, composed primarily of mafics ranging from fine grained to coarse grained. weak foliation. Coarser grained minerals are mafic in composition and suspended in a finer mafic ground mass. Intermittent calcite and quartz stringers. Gradational upper contact. 4B subunit from 241.77 to 242.75 with up to 1% finely disseminated py/po throughout.
HG-18-20	301.52	342	40.48	1B	Pillowed Flows	fg, dark grey to dark green mafic unit. ~5 to 10% millimetric to centimetric wide light green pillow selvage bands composed of chlorite/epidote. Biotite banding associated with some of these selvages. Calcite/qtz stringers, wisps throughout. Gradational upper contact.
HG-18-20	342	342				EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	24	24.84	0.84	785324	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	24.84	25.35	0.51	785325	0.012	12
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	25.35	26	0.65	785326	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	36	36.35	0.35	785327	0.005	5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	36.35	36.65	0.3	785328	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	36.65	37	0.35	785329	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	OREAS 215			0	785330	3.32	3320
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	78.68	79.11	0.43	785331	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	79.11	79.62	0.51	785332	0.011	11
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	79.62	80	0.38	785333	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	84	85	1	785334	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	85	86	1	785335	0.006	6
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	86	86.58	0.58	785336	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	86.58	87	0.42	785337	0.008	8
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	87	88	1	785338	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	88	89	1	785339	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Blank			0	785340	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	89	90	1	785341	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	90	90.7	0.7	785342	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	90.7	91.06	0.36	785343	0.007	7
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	91.06	92	0.94	785344	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	92	93	1	785345	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	93	93.48	0.48	785346	0.014	14
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	93.48	94	0.52	785347	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-16717	05-Nov-18	30-Nov-18	Assay	94	94.97	0.97	785348	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	156.5	157.35	0.85	785349	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	OREAS 216			0	785350	6.4	6400
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	157.35	157.82	0.47	785351	0.006	6
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	157.82	158.5	0.68	785352	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	167	167.6	0.6	785353	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	167.6	168	0.4	785354	0.005	5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	168	168.86	0.86	785355	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	235	236	1	785356	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	236	237	1	785357	0.006	6
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	237	238	1	785358	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	238	239	1	785359	0.0025	< 5

HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Blank					785360	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	241	241.77	0.77		785361	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	241.77	242.75	0.98		785362	0.0025	< 5
HG-18-20	Hambleton Grid	Actlabs	A18-17154	09-Nov-18	28-Nov-18	Assay	242.75	243.5	0.75		785363	0.0025	< 5

		Hole Number:		HG-19-21			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface						Feb-21-2019	Feb-24-2019
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643294						
Northing	5413699	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					Feb-21-2019	Feb-24-2019	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	309.00	Logger 1:	Andrew Wehrfritz		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Follow up on Chargeability Anomalies and anomolous Au soil samples.	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		15.0	86.6	-48.0	55152		94.2
		45.0	87.8	-47.3	55875		95.4
Results	Intermittent sections of disseminated sulphides throughout the hole. In addition to this moderately magnetic granodiorite unit from 161m to 217m.	75.0	88.3	-47.1	55843		95.9
		105.0	88.9	-46.9	55876		96.5
		135.0	88.8	-45.9	55995		96.4
		165.0	96.6	-45.5	56963		104.2
		195.0	88.7	-44.9	56126		96.3
		225.0	91.0	-44.1	56388		98.6
Comments		255.0	87.5	-43.6	56037		95.1
		285.0	87.3	-43.3	56176		94.9
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-21	0	3	3	OVB	Overburden	
HG-19-21	3	25.25	22.25	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. <1% disseminated sulphides from approximately 20.5 to 22m associated with a minor to moderate degree of quartz flooding. Minor amounts of fault gauge at 22.1 associated with a higher degree of fracturing from 22 to 23m ( approximately 15-20 fractures/meter).
HG-19-21	25.25	26.45	1.2	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg silica and feldspar ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts are moderately strained. Overall unit appear silicified; no sulphides visible.
HG-19-21	26.45	42.19	15.74	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Up to 1% disseminated sulphides and stringers from 26.45 to 27.25; magnetite stringers in this sections as well.
HG-19-21	42.19	70	27.81	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. Up to 2% disseminated py from 42.19 to 45m associated with quartz flooding and from 49m to 50m.
HG-19-21	70	98.85	28.85	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-21	98.85	149.2	50.35	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. Quartz veining picks up from 122 to 125m. Biotite banding and minor quartz flooding from 147 to 147.68 associated with approximately 1% disseminated sulphides.
HG-19-21	149.2	152.28	3.08	5B	Granodiorite	mg, light grey to white felsic unit with a massive texture. Unit is composed predominately of white feldspar and light grey Smokey quartz with a lesser amounts of black mafics disseminated throughout. Trace amounts of blebby sulphides associated with quartz stringers (<<1%). Very weak to no foliation




HG-19-21	152.28	161.31	9.03	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Up to <1% disseminated sulphides from 155.42 to 155.75 and 161 to 161.31m
HG-19-21	161.31	216.74	55.43	5B	Granodiorite	mg, light grey to white felsic unit with a massive texture. Unit is composed predominately of white feldspar and light grey Smokey quartz with a lesser amounts of black mafics disseminated throughout. Portion of the black speckling is composed of fg disseminated magnetite which produces moderate magnetic properties throughout. Intermittent quartz stringers, and veinlets; some of which are associated with approximately 1% sulphides; 194 to 195, and 206 to 207. Increased fracturing (15-20/meter)and pale pink bleaching from 212 to 214. Narrow sections of mafics in the final few meters of the unit. Very weak to no foliation
HG-19-21	216.74	219.66	2.92	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Narrow 4b unit at 218.5.
HG-19-21	219.66	220.81	1.15	5B	Granodiorite	mg, light grey to white felsic unit with a massive texture. Unit is composed predominately of white feldspar and light grey Smokey quartz with a lesser amounts of black mafics disseminated throughout. Narrow sections of mafics intermittently. Very weak to no foliation
HG-19-21	220.81	222.24	1.43	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Narrow intervals of granodiorite intermittently.
HG-19-21	222.24	223.67	1.43	5B	Granodiorite	mg, light grey to white felsic unit with a massive texture. Unit is composed predominately of white feldspar and light grey Smokey quartz with a lesser amounts of black mafics disseminated throughout. Very weak to no foliation
HG-19-21	223.67	234.5	10.83	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Biotite alteration associated with minor to moderate silicification and ~1% sulphides from 226.3 to 234; thin light green bands of epidote associated with mineralization. Broken core with a vuggy texture from 233.7 to 234m. highly fractured quartz vein from 234 to 234.3
HG-19-21	234.5	256.55	22.05	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with finer grained plagioclase interstitially throughout. Intermittent calcite and quartz stringers, wisps. Minor biotite banding at 242.9m.

HG-19-21	256.55	309	52.45	1B	Pillowed Flows	<p>fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit as well. Narrow section of barren silicified feldspar porphyry from 285.14 to 285.48m. Increased fracturing from 292 to 293. Series of quartz veinlets from 277.27 to 277.45m with approximately 1% disseminated sulphides.</p>
HG-19-21	309	309	0			

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVE	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	20	21	1	787521	0.009	9
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	21	22	1	787522	0.006	6
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	22	23.04	1.04	787523	0.007	7
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	25.25	26.45	1.2	787524	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	26.45	27.5	1.05	787525	0.005	5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	27.5	28.5	1	787526	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	41	42.19	1.19	787527	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	42.19	43	0.81	787528	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	43	44	1	787529	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	OREAS 216				787530	6.32	6320
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	44	45	1	787531	0.008	8
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	45	46	1	787532	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	48	49	1	787533	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	49	50	1	787534	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	50	51	1	787535	0.006	6
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	51	52	1	787536	0.006	6
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	146.65	147	0.35	787537	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	147	147.68	0.68	785367	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	147.68	148.38	0.7	787539	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Blank				787540	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	159	160	1	787541	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	160	161	1	787542	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	161	161.31	0.31	787543	0.005	5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	193	194	1	787544	0.014	14
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	194	195	1	787545	0.041	41
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	195	196	1	787546	0.069	69
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	205	206	1	787547	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	206	207	1	787548	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	207	208	1	787549	0.009	9
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	OREAS 210				787550	5.18	5180
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	226.06	227	0.94	787551	0.007	7
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	227	228	1	787552	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	228	229	1	787553	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	229	229.85	0.85	787554	0.007	7
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	229.85	230.18	0.33	787555	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	230.18	231	0.82	787556	0.005	5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	231	232	1	787557	0.01	10

HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	232	233	1	787558	0.01	10
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	233	234	1	787559	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Blank				787560	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	234	234.5	0.5	787561	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	234.5	235.5	1	787562	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	276	277	1	787563	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	277	278	1	787564	0.0025	< 5
HG-19-21	Hambleton Grid	Actlabs	A19-03171	01-Mar-19	11-Mar-19	Assay	278	279	1	787565	0.0025	< 5

		Hole Number:		HG-19-22			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface						Feb-25-2019	Feb-28-2019
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643218						
Northing	5412399	Dip:	50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					Feb-25-2019	Feb-28-2019	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	306.00	Logger 1:	Andrew Wehrfritz		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Follow up on magnetic and chargeability highs in the area. 37ppb soil sample in the area as well.	<b>Dip Tests</b>					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		18.0	89.1	-49.3	56235		96.7
		48.0	86.0	-47.4	56092		93.6
Results	Mineralized mafic flow units intersected from 234m to 239.31m and 251m to 259m containing 1 or 2 % disseminated pyrite and lesser po stringers. Several sulphide iron facies units intersected intermittently throughout the latter half of the hole as well.	78.0	83.6	-46.7	55971		91.2
		108.0	84.1	-46.2	55960		91.7
		138.0	83.5	-45.7	55663		91.1
		168.0	84.2	-45.4	55622		91.8
		198.0	83.0	-45.0	55613		90.6
		234.0	83.3	-44.6	55741		90.9
Comments		264.0	82.9	-44.2	55810		90.5
		294.0	83.4	-43.8	55788		91
Azimuth corrected to 7.6 degrees west declination							

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-22	0	3	3	OVB	Overburden	
HG-19-22	3	21.15	18.15	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers. Disseminated biotite in sections. Quartz vein from 9.63 to 10.46 containing ~1% blebby sulphides (cpy and py). Highly fractured section from 15m to 15.3 ( 20+ fractures in this section).
HG-19-22	21.15	23.03	1.88	6E	Intermediate Dyke	fg to mg, dark grey and dark green mafic to intermediate unit with a massive texture. mg minerals are mafic in composition (amph and pyroxenes) and surrounded by a finer grained dark grey intermediate ground mass composed of plagioclase and mafics.
HG-19-22	23.03	61.05	38.02	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Iron formation with up to 3% sulphide stringers from 59.87 to 60.55m; this section is highly silicified, banded and dark grey in colour with a slight purple hue in sections.
HG-19-22	61.05	70.28	9.23	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	70.28	99.83	29.55	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. fg dark grey felsic unit with a massive texture from 83.24 to 83.54.
HG-19-22	99.83	118.14	18.31	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	118.14	151.22	33.08	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. fg dark grey felsic unit with a massive texture from 83.24 to 83.54. Three blebs of po at 130 (<<1%). Iron formation from 119.3 to 119.84 with approximately 3% sulphides.
HG-19-22	151.22	157.51	6.29	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	157.51	167.25	9.74	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-22	167.25	179.72	12.47	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with interstitial biotite and intermittent quartz and calcite stringers. Unit coarsens from 169 to 170; appears borderline gabbroic.
HG-19-22	179.72	194.76	15.04	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.


HG-19-22	194.76	203.82	9.06	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers. Biotite banding observed from 203 to 203.82.
HG-19-22	203.82	205.17	1.35	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Approximately 3% sulphide stringers, predominately po, then py and lesser cpy. Narrow section of 4b intersects the unit from 204.57 to 204.79
HG-19-22	205.17	211.69	6.52	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	211.69	214.31	2.62	1UT	Ultramafic Talc/Chlorite Altered	fg, grey to light grey mafic unit with a massive texture. Unit is composed predominately of mafic minerals with disseminated magnetite throughout. Strong talc alteration as well. Fault gauge from 212.3 to 212.6 with suspended angular fragments followed by approx. .5m of highly fractured rock ( approx. 20 fractures)
HG-19-22	214.31	215.8	1.49	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	215.8	217.92	2.12	1U	Ultramafic Flows	fg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers. Disseminated magnetite produce moderate to strong magnetic properties. Narrow section of 4b from 216.05 to 216.26.
HG-19-22	217.92	219.27	1.35	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Approximately 3% sulphide stringers, predominately po, and py with trace cpy and sph. Minor thin magnetite banding
HG-19-22	219.27	223.37	4.1	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	223.37	223.95	0.58	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Approximately 3% sulphide stringers, predominately po, and py with trace cpy and sph. Minor thin magnetite banding in sections.
HG-19-22	223.95	233.61	9.66	1A	Massive Flows	fg to mg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of pyroxene and amph with intermittent quartz and calcite stringers.
HG-19-22	233.61	234	0.39	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Approximately 3% sulphide stringers, predominately po, and py with potential trace cpy and sph.
HG-19-22	234	239.31	5.31	1MIN	Mineralized Mafic Flow	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Approximately .5% disseminated pyrite and .5% po stringers throughout.
HG-19-22	239.31	241.02	1.71	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Approximately 3% sulphide stringers, predominately po, and py with trace cpy and sph. Silicified 4b subunit.
HG-19-22	241.02	251	9.98	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.

HG-19-22	251	259	8	1MIN	Mineralized Mafic Flow	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Approximately 1-2% disseminated pyrite throughout associated with stronger biotite banding.
HG-19-22	259	273.33	14.33	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Strong epidote alteration at 263 and 264 associated with a vuggy texture.
HG-19-22	273.33	274.56	1.23	6E	Intermediate Dyke	fg to mg, dark grey and dark green mafic to intermediate unit with a massive texture. mg minerals are mafic in composition (amph and pyroxenes) and surrounded by a finer grained dark grey intermediate ground mass composed of plagioclase and mafics.
HG-19-22	274.56	306	31.44	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Minor vuggy texture at 284m.
HG-19-22	306	306				EOH



BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	9	9.63	0.63	787566	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	9.63	10.46	0.83	787567	0.027	27
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	10.46	11	0.54	787568	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	59	59.87	0.87	787569	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	OREAS 215				787570	3.53	3530
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	59.87	60.55	0.68	787571	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	60.55	61.05	0.5	787572	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	117	118.14	1.14	787573	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	118.14	118.69	0.55	787574	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	118.69	119.3	0.61	787575	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	119.3	119.84	0.54	787576	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	119.84	120.81	0.97	787577	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	201	202	1	787578	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	202	203	1	787579	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Blank				787580	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	203	203.82	0.82	787581	0.008	8
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	203.82	204.57	0.75	787582	0.033	33
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	204.57	205.17	0.6	787583	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	205.17	206	0.83	787584	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	217.06	217.92	0.86	787585	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	217.92	218.36	0.44	787586	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay+Geochem	218.36	219.27	0.91	787587	0.005	5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	219.27	220	0.73	787588	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	220	221	1	787589	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	OREAS 216				787590	6.67	6670
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	221	222	1	787591	0.012	12
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	222	223	1	787592	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	223	223.37	0.37	787593	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay+Geochem	223.37	223.95	0.58	787594	0.008	8
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	223.95	225	1.05	787595	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	233	233.61	0.61	787596	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	233.61	234	0.39	787597	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	234	235	1	787598	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	235	236	1	787599	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Blank				787600	0.0025	< 5

HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	236	237	1	787601	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	237	238	1	787602	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	238	239	1	787603	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	239	239.31	0.31	787604	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay+Geochem	239.31	240.23	0.92	787605	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	240.23	240.67	0.44	787606	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay+Geochem	240.67	241.02	0.35	787607	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	241.02	242	0.98	787608	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	244	245	1	787609	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	OREAS 210			0	787610	5.43	5430
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	245	246	1	787611	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	246	247	1	787612	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	247	248	1	787613	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	248	249	1	787614	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	249	250	1	787615	0.011	11
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	250	251	1	787616	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	251	252	1	787617	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	252	253	1	787618	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	254	255	1	787619	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	253	254	1	787633	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Blank			0	787620	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	255	256	1	787621	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	256	257	1	787622	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	257	258	1	787623	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	258	259	1	787624	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	259	260	1	787625	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	260	261	1	787626	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	261	262	1	787627	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	262	263	1	787628	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	263	264	1	787629	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	OREAS 215			0	787630	3.56	3560
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	264	265	1	787631	0.0025	< 5
HG-19-22	Hambleton Grid	Actlabs	A19-03441	07-Mar-19	27-Mar-19	Assay	265	266	1	787632	0.0025	< 5

		Hole Number:		HG-19-23				
		Drill Rig:		HC-150-16				
		Claim Number:						
Location		Drill Hole Orientation		Dates Drilled:	Start Date:		End Date:	
Surface					Mar-02-2019		Mar-05-2019	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée			
Easting	643500							
Northing	5411167	Dip:	-50	Dates Logged:	Start Date:		End Date:	
Elevation(m)					Mar-02-2019		Mar-05-2019	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	327.00	Logger 1:	Andrew Wehrfritz			
Easting								
Northing		Core Size:	NQ	Logger 2:				
Elevation(m)								
Casing				Logger 3:				
Assay Lab:				Actlabs				
Purpose of Hole		A follow up on several geophysical anomalies in the area; VLF, chargeability, and magnetic highs.		Dip Tests				
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.	
		24.0	86.8	-49.9	55959		94.4	
		54.0	89.1	-49.1	56610		96.66	
		84.0	86.6	-48.5	56053		94.2	
Results		114.0	89.0	-48.0	56200		96.6	
Majority of mineralization found in first 200m of the hole. This includes a ~5% mineralized iron formation section from 82.44 to 82.62 and a mineralized (~1%) section of mafic flows. See mineralization and major unit tab for more details.		150.0	88.7	-46.9	55607		96.3	
		180.0	87.9	-46.6	56012		95.5	
		210.0	88.6	-45.4	55893		96.2	
		240.0	88.5	-44.7	55811		96.1	
		270.0	88.9	-43.9	55935		96.5	
Comments		300.0	88.9	-42.7	56069		96.5	
		327.0	96.1	-42.1	57139		103.7	
			-7.6					
			-7.6					
			-7.6					
			-7.6					
			-7.6					
Azimuth corrected to 7.6 degrees west declination			-7.6					
			-7.6					
			-7.6					

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-23	0	9	9	CAS	Casing	
HG-19-23	9	10.9	1.9	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	10.9	14.06	3.16	5B	Granodiorite	fg to mg, white to light grey felsic unit composed of predominately quartz and plagioclase with approximately 5% disseminated biotite throughout. Pink potassic alteration in the second half of the unit.
HG-19-23	14.06	20.52	6.46	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	20.52	21.08	0.56	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg silica and feldspar ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts are moderately strained. Overall unit appears silicified; minor amounts of patchy pyrite visible along a quartz stringer.
HG-19-23	21.08	82.44	61.36	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	82.44	82.62	0.18	3D	Iron Formation	fg, light grey to purple banded unit with up to 5% blebby pyrite with lesser po. Minor magnetic properties. Unit is predominately felsic but alternates between felsic and mafic banding.
HG-19-23	82.62	90.91	8.29	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. Two narrow blebby bands of pyrrhotite at 84.65.
HG-19-23	90.91	92.4	1.49	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation and up to 1% blebby pyrite and trace cpy and po. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	92.4	100.31	7.91	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	100.31	177.94	77.63	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with finer grained plagioclase interstitially throughout. Intermittent calcite and quartz stringers, wisps. Small quartz stringer at 123.5 containing blebby py and po. Blebby py and po at 146.45 to 146.5; approximately 2% sulphides in this interval.

HG-19-23	177.94	198.6	20.66	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. Minor blebby po and py from 179.15 to 179.2.
HG-19-23	198.6	202.3	3.7	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	202.3	207.1	4.8	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. po stringer at 206.9m and 206.7m.
HG-19-23	207.1	208.65	1.55	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	208.65	210	1.35	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit. Series of po stringers from 209.7 to 209.75.
HG-19-23	210	212.84	2.84	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	212.84	238.62	25.78	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	238.62	257.25	18.63	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	257.25	260.02	2.77	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-23	260.02	272.14	12.12	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	272.14	301.43	29.29	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout. Quartz and calcite veinlets and veins intermittently throughout the unit.


HG-19-23	301.43	304.14	2.71	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps.
HG-19-23	304.14	305.47	1.33	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with lesser amounts of finer grained plagioclase interstitially throughout. Intermittent calcite and quartz stringers, wisps.
HG-19-23	305.47	306.17	0.7	6E	Intermediate Dyke	fg to mg, grey to dark green intermediate unit with minor amounts of foliation. Unit is massive in texture and composed of equal parts plagioclase and amphiboles/pyroxene. Approximately 1% disseminated pyrite throughout.
HG-19-23	306.17	315	8.83	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with lesser amounts of finer grained plagioclase interstitially throughout. Intermittent calcite and quartz stringers, wisps. Series of quartz flooding from 306.17 to 307.1; quartz vein intersects the unit from 306.7 to 307 at a approximately 30 degrees tca; up to 2% blebby pyrite intermittently across vein and/or in surrounding mafic rock.
HG-19-23	315	327	12	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals. Intermittent calcite and quartz stringers, wisps. Narrow section of blebby pyrite at 318.98 to 319m
HG-19-23	327	327	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	20	20.52	0.52	787634	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	20.52	21.08	0.56	787635	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	21.08	21.73	0.65	787636	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	82	82.4	0.4	787637	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay+Geochem	82.4	82.7	0.3	787638	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	82.7	83	0.3	787639	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Blank				787640	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	83	84	1	787641	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	84	84.5	0.5	787642	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	84.5	85	0.5	787643	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	85	86	1	787644	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	86	87	1	787645	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	90	90.91	0.91	787646	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	90.91	92	1.09	787647	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	92	92.4	0.4	787648	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	92.4	93	0.6	787649	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	OREAS 216				787650	6.63	6630
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	123	123.33	0.33	787651	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	123.33	123.63	0.3	787652	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	123.63	124.63	1	787653	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	145	146	1	787654	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	146	147	1	787655	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	147	148	1	787656	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	177.94	179	1.06	787657	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	179	179.4	0.4	787658	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	179.4	180	0.6	787659	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Blank				787660	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	205	206	1	787661	0.006	6
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	206	207.1	1.1	787662	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	207.1	208	0.9	787663	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	208	208.65	0.65	787664	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	208.65	209.5	0.85	787665	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	209.5	210	0.5	787666	0.01	10
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	210	210.5	0.5	787667	0.008	8
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	305	305.43	0.43	787668	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	305.43	306.17	0.74	787669	0.0025	< 5



HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	OREAS 210					787670	5.33	5330
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	306.17	307.1	0.93		787671	0.0025	< 5
HG-19-23	Hambleton Grid	Actlabs	A19-03445	07-Mar-19	26-Mar-19	Assay	307.1	308	0.9		787672	0.0025	< 5



		Hole Number:	HG-19-24				
		Drill Rig:					
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:	
Surface					7-Mar-2018	10-Mar-2018	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	50	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643396						
Northing	5409490	Dip:	50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					7-Mar-2018	11-Mar-2018	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	336.00	Logger 1:	Jordan Keir-Sage		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:			
Casing							
Purpose of Hole	Exploration of the Hambleton grid	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		21.0	52.3	-49.8	56205		59.9
		54.0	51.5	-49.2	55694		59.1
		84.0	53.7	-48.4	55805		61.3
		114.0	53.1	-47.4	55853		60.7
		144.0	53.6	-46.8	55846		61.2
		174.0	54.7	-45.2	55596		62.3
		204.0	54.0	-44.6	55994		61.6
		240.0	54.2	-43.0	55883		61.8
Comments		276.0	55.0	-41.9	56179		62.6
		306.0	53.4	-40.4	55978		61
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				


BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-24	0	6	6	CAS	Casing	
HG-19-24	6	30.27	24.27	1A	Massive Flows	Green grey, fine to medium grained massive mafic flow. Moderate foliation. Pervasive chlorite, with wispy carb stringers, some patchy brown biotite. Kspar filled fractures near 19 @ Grain size increases near contact
HG-19-24	30.27	84.19	53.92	6B	Gabbro	Green grey, fine to coarse grained gabbro. Moderate foliation with stronger foliation/shearing near 43-45m. , with wispy carb stringers, some patchy brown biotite. . At 60.57 - to 84.19 unit is possibly intruded by another gabbro. Mineral composition appears to be similar however the chlorite crystals are very coarse and there is no visible foliation. lower gabbro also contains. trace localized CPY
HG-19-24	84.19	87.04	2.85	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers
HG-19-24	87.04	88.8	1.76	3D	Iron Formation	green/brown/grey, fine grained iron formation. Unit is composed of banded chlorite, chert and biotite, bands are mm-cm sized,
HG-19-24	88.8	114.6	25.8	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers
HG-19-24	114.6	125.47	10.87	7A	Diabase	fine grained to medium grained, grey mafic unit with moderate to strong magnetic properties. mm-cm sized feldspar glomerophyes scattered throughout and make up approximately 5 % of the unit
HG-19-24	125.47	128.07	2.6	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	128.07	130.87	2.8	6B	Gabbro	Green grey, fine to coarse grained gabbro. Moderate foliation with /shearing near. Pervasive chlorite, with wispy carb stringers, some patchy brown biotite. .
HG-19-24	130.87	138.43	7.56	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	138.43	143.48	5.05	6B	Gabbro	Green grey, fine to coarse grained gabbro. Moderate foliation with /shearing . , with wispy carb stringers, some patchy brown biotite. .
HG-19-24	143.48	169.58	26.1	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	169.58	171.38	1.8	1U	Ultramafic Flows	fine grained dark grey mafic unit with moderate to strong magnetic properties. Unit has a massive texture and pervasive talc alteration throughout.
HG-19-24	171.38	173.5	2.12	1MIN	Mineralized Mafic Flows	fine grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Approximately 5% banded pyrite and 1% po stringers throughout. the majority of the sulphides
HG-19-24	173.5	174.74	1.24	4B	Feldspar Porphyry	fine grained to medium grained, grey unit with a slight purple hue. Predominately a fine grained felsic groundmass with pervasive biotite. Weak foliation. Phenos are slightly deformed and cm sized phenocrysts

HG-19-24	174.74	185.37	10.63	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers
HG-19-24	185.37	200.63	15.26	7A	Diabase	fine grained to medium grained, grey mafic unit with moderate to strong magnetic properties. mm-cm sized feldspar glomerophyres scattered throughout and make up approximately 5 % of the unit
HG-19-24	200.63	204.43	3.8	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	204.43	207.83	3.4	4B	Feldspar Porphyry	fine grained to medium grained, grey unit with a slight purple hue. Predominately a fine grained felsic groundmass with pervasive biotite. Weak foliation. Phenos are slightly deformed and cm sized phenocrysts
HG-19-24	207.83	213.59	5.76	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	213.59	216.91	3.32	4B	Feldspar Porphyry	fine grained to medium grained, grey unit with a slight purple hue. Predominately a fine grained felsic groundmass with pervasive biotite. Weak foliation. Phenos are slightly deformed and cm sized phenocrysts
HG-19-24	216.91	218.62	1.71	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	218.62	219.89	1.27	4B	Feldspar Porphyry	fine grained to medium grained, grey unit with a slight purple hue. Predominately a fine grained felsic groundmass with pervasive biotite. Weak foliation. Phenos are slightly deformed and cm sized phenocrysts
HG-19-24	219.89	223.53	3.64	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, unit has minor 4B intrusions
HG-19-24	223.53	239.45	15.92	1A	Massive Flows	fine grained to medium grained, dark grey to dark green unit, composed primarily of mafics with a massive texture, moderate foliation. Finer grained feldspar surrounding mafics in areas as well.
HG-19-24	239.45	240.7	1.25	4B	Feldspar Porphyry	fine grained to medium grained, grey unit with a slight purple hue. Predominately a fine grained felsic groundmass with pervasive biotite. Weak foliation. Phenos are deformed and corroded
HG-19-24	240.7	258.24	17.54	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers
HG-19-24	258.24	262.88	4.64	1A	Massive Flows	fine grained to medium grained, dark grey to dark green unit, composed primarily of mafics with a massive texture, moderate foliation. Finer grained feldspar surrounding mafics in areas as well.
HG-19-24	262.88	264.38	1.5	1MIN	Mineralized Mafic Flows	Green Brown mineralized mafic flow, moderate foliation. Mafic minerals with patches of brown biotite alteration. 3% pyrite and 3% po
HG-19-24	264.38	295.3	30.92	1A	Massive Flows	fine grained to medium grained, dark grey to dark green unit, composed primarily of mafics with a massive texture, moderate foliation. Finer grained feldspar surrounding mafics in areas as well. Minor 4B intrusions. Near lower contact, chert filled veins have formed
HG-19-24	295.3	297.68	2.38	4B	Feldspar Porphyry	fine grained to medium grained, black unit Feldspar porphyry . Predominately a fine grained felsic groundmass with Weak foliation. Phenos are slightly deformed and cm sized phenocrysts5% chert filled veins

HG-19-24	297.68	301.48	3.8	1A	Massive Flows	fine grained to medium grained, dark grey to dark green unit, composed primarily of mafics with a massive texture, moderate foliation. Finer grained feldspar surrounding mafics in areas as well. Minor 4B intrusions. chert filled veins have formed 10%
HG-19-24	301.48	305.7	4.22	5B	Granodiorite	White pink, fine grained to coarse grained Granodiorite. Unit is moderately silicified with weak pervasive kspar alteration. Unit also has chert bands located through out unit
HG-19-24	305.7	308.15	2.45	6A	Diorite	fine grained to medium grained, black/ grey Diorite . Predominately a fine grained felsic groundmass with Weak foliation. Phenos are slightly deformed and cm sized phenocrysts 25% chert filled veins
HG-19-24	308.15	312.02	3.87	5B	Granodiorite	White pink, fine grained to coarse grained Granodiorite. Unit is moderately silicified with weak pervasive kspar alteration. Unit also has chert bands located through out unit 20%
HG-19-24	312.02	336	23.98	6A	Diorite	fine grained to medium grained, black/ grey Diorite . Predominately a fine grained felsic groundmass with Weak foliation. Phenos are slightly deformed and cm sized phenocrysts 25% chert filled veins

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	41.44	42.44	1	787673	0.005	5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	42.44	42.84	0.4	787674	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	42.84	43.84	1	787675	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	67	68	1	787676	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	68	69	1	787677	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	69	70	1	787678	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	86.04	87.04	1	787679	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Blank			0	787680	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay+Geochem	87.04	88.04	1	787681	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay+Geochem	88.04	88.8	0.76	787682	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	88.8	89.8	1	787683	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	89.8	90.8	1	787684	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	90.8	91.8	1	787685	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	91.8	92.8	1	787686	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	92.8	93.8	1	787687	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	142.46	143.46	1	787688	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	143.46	144	0.54	787689	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	OREAS 215			0	787690	3.37	3370
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	144	144.75	0.75	787691	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	144.75	145.5	0.75	787692	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	145.5	146.5	1	787693	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	170.38	171.38	1	787694	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay+Geochem	171.38	172	0.62	787695	0.053	53
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay+Geochem	172	173	1	787696	0.008	8
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	173	173.5	0.5	787697	0.005	5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	173.5	174	0.5	787698	0.005	5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	174	174.74	0.74	787699	0.005	5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Blank			0	787700	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	174.74	175.5	0.76	787701	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	175.5	175.91	0.41	787702	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	175.91	176.22	0.31	787703	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	25-Mar-19	Assay	176.22	177	0.78	787704	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	261.88	262.88	1	787705	0.008	8
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	262.88	264	1.12	787706	0.008	8
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	264	264.38	0.38	787707	0.006	6

HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	264.38	265.38	1	787708	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	300.48	301.48	1	787709	0.005	5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	OREAS 210			0	787710	5.23	5230
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	301.48	302	0.52	787711	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay+Geochem	302	303	1	787712	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay+Geochem	303	304	1	787713	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay+Geochem	304	305	1	787714	0.013	13
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	305	305.7	0.7	787715	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03925	14-Mar-19	15-Mar-19	Assay	305.7	306.7	1	787716	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	306.7	307.7	1	787717	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	307.7	308.15	0.45	787718	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	308.15	309	0.85	787719	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Blank			0	787720	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	309	310	1	787721	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	310	311	1	787722	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	311	312.02	1.02	787723	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	312.02	313	0.98	787724	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	313	314	1	787725	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	314	315	1	787726	0.0025	< 5
HG-19-24	Hambelton Grid	Actlabs	A19-03934	14-Mar-19	15-Mar-19	Assay	315	316	1	787727	0.0025	< 5

		Hole Number:		HG-19-25			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				11-Mar-2018		14-Mar-2019	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643257						
Northing	5410525	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					11-Mar-2018		15-Mar-2019
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	300.00	Logger 1:	Jordan Keir-Sage		
Easting					Logger 2:	Josh Zundl	
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)					Assay Lab:		
Casing							
Purpose of Hole	Investigate VLF anomalies	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		18.0	92.8	-49.7	56652		100.4
		48.0	91.1	-49.1	55815		98.7
Results	Iron formation at 111.44-111.70m and 117.25-117.75m with 10% pyrite, 5% pyrrhotite and trace sphalerite. Zone of altered mafics-altered feldspar porphyry-altered mafics found from 165.55 to 173.87 (1ALT 165.55-167.67m; 4ALT 167.67-169.69m; 1ALT 169.69-173.87m) with 1% sulfides at most.	78.0	91.7	-48.6	55800		99.3
		111.0	89.9	-48.1	55966		97.5
		141.0	89.8	-47.2	55994		97.4
		171.0	91.9	-46.7	57532		99.5
		201.0	90.6	-46.2	55930		98.2
		231.0	90.5	-45.3	55713		98.1
Comments	Josh began logging at around 145m	261.0	90.4	-45.4	55966		98
		321.0	90.6	-44.6	55897		98.2
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-25	0	3	3	CAS	Casing	
HG-19-25	3	14.35	11.35	7A	Diabase	fine grained to medium grained, grey mafic unit with moderate to strong magnetic properties. mm-cm sized feldspar glomerophyres scattered throughout and make up approximately 1 % of the unit
HG-19-25	14.35	30.92	16.57	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, disseminated PY from upper contact to 15.35m
HG-19-25	30.92	32.86	1.94	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 10% Phenos, sub rounded
HG-19-25	32.86	55.34	22.48	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers, in/or 4b intrusions and iron formations
HG-19-25	55.34	76.8	21.46	1A	Massive Flows	green grey fine grained to medium grained massive mafic flows. Moderate to foliation. Banded biotite with wispy qtz carb stringers,
HG-19-25	76.8	99.27	22.47	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers 10% of unit, more concentrated near lower contact,
HG-19-25	99.27	101.36	2.09	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 10% Phenos
HG-19-25	101.36	103.5	2.14	1A	Massive Flows	green grey fine grained to medium grained massive mafic flows. Moderate to foliation. Banded biotite with wispy qtz carb stringers,
HG-19-25	103.5	105.75	2.25	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 15% Phenos, sub rounded
HG-19-25	105.75	109.82	4.07	1U	Ultramafic Flows	Black grey, fine grained ultramafic, area is faulted with gouge visible near both contacts. Possible 1A inclusions. 15% PY at 108.40-108.60 trace SP
HG-19-25	109.82	117.86	8.04	1A	Massive Flows	green grey fine grained to medium grained massive mafic flows. Moderate to foliation. Banded biotite with wispy qtz carb stringers, unit includes minor mineralized iron formations
HG-19-25	117.86	133.55	15.69	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers 10% of unit, more concentrated near lower contact, minor mineralized iron formations
HG-19-25	133.55	135.42	1.87	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 10% Phenos, sub rounded
HG-19-25	135.42	137.78	2.36	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers 10% of unit, more concentrated near lower contact,
HG-19-25	137.78	140.19	2.41	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 10% Phenos, sub rounded
HG-19-25	140.19	141.19	1	1B	Pillowed Flows	green grey fine grained pillowed mafics. Moderate to strong foliation. Banded biotite with wispy qtz carb stringers 10% of unit, more concentrated near lower contact,



HG-19-25	141.19	145.39	4.2	4B	Feldspar Porphyry	Grey purple, fine to medium grained feldspar porphyry. Weak moderate foliation. Pervasive biotite. 10% Phenos, sub rounded
HG-19-25	145.39	147.64	2.25	1B	Pillowed Flows	Green/white; FG; mod fol; mod wispy ser/bi/chl/car bleaching/banding; mod per chl; weak chl altered pillow selvages <1cm; mod interstitial bi; barren
HG-19-25	147.64	149.65	2.01	4B	Feldspar Porphyry	Grey/Purple; FG-CG; weak-mod fol; mod sil; mod interstitial bi; 20% sub rounded CG phenos; trace alb banding; barren
HG-19-25	149.65	162.9	13.25	1B	Pillowed Flows	Green/white/brown; FG; mod fol; mod wispy ser/bi/chl/car bleaching/banding until 156.50m where it becomes mod-str for the rest of the unit; mod per chl; mod chl altered pillow selvages <2cm; mod interstitial bi; barren. Contains 3 4B minors
HG-19-25	162.9	163.43	0.53	4ALT	Altered Feldspar Porphyry	Mod purple/light green; FG; mod fol; str hydrothermal pressure fractures with mod ser flooding; weak alb banding; weak sil; trace PO by LC
HG-19-25	163.43	165.55	2.12	1A	Massive Flows	Green/white; FG; mod fol; trace ser/bi/chl/car bleaching/banding; mod-str per chl; mod interstitial bi; barren
HG-19-25	165.55	167.67	2.12	1ALT	Altered Mafic Volcanic	Green/white/brown; FG; str fol; str banded/boudinaged ser/chl/car/bi/act; barren
HG-19-25	167.67	169.69	2.02	4ALT	Altered Feldspar Porphyry	Mod purple; FG; mod fol; weak alb banding; mod interstitial/banded bi; mod-str sil; is about 40% small 1ALT sections; trace PO 1ALT sections
HG-19-25	169.69	173.87	4.18	1ALT	Altered Mafic Volcanic	Green/white/brown; FG; str fol; str banded/boudinaged ser/chl/car/bi/act; 1% PO 171.80-172.00m
HG-19-25	173.87	191.9	18.03	1B	Pillowed Flows	Green/white/brown; FG; str fol; mod-str ser/bi/chl/car bleaching/banding; mod per chl; mod-str chl altered pillow selvages <1cm; mod interstitial bi; barren. Contains 2 4B minors and a str per chl 1A minor
HG-19-25	191.9	192.68	0.78	1ALT	Altered Mafic Volcanic	Green/white; FG; mod ribboned/irregular foliation; str ribboned/boudinaged bands of chl/ser/act with some bi; str per/fracture filling chl; 2% PY - especially in fractures
HG-19-25	192.68	195.2	2.52	1B	Pillowed Flows	Green/white/brown; FG; str fol; mod-str ser/bi/chl/car bleaching/banding; mod per chl; mod-str chl altered pillow selvages <2cm; weak qtz veinlets; mod interstitial bi; barren.
HG-19-25	195.2	199.44	4.24	4B	Feldspar Porphyry	Grey/Purple; FG-CG; weak-mod fol; mod sil; mod interstitial bi; 15% sub rounded MG mafics - could be chl replaced phenos; 20% sub rounded CG felds phenos; mod alb banding/stringers; contains a qtz vein; barren
HG-19-25	199.44	207.28	7.84	1A	Massive Flows	Green/white; FG; mod fol; weak-mod ser/bi/chl/car wispy bleaching/banding; mod per chl; mod interstitial bi; trace qtz veinlets; barren
HG-19-25	207.28	209.02	1.74	1A	Massive Flows	Green/white; FG; mod fol; weak-mod ser/bi/chl/car wispy bleaching/banding; mod per chl; mod interstitial bi; unit contains 30% veinlets/dycklets of quartz/granodiorite/feldspar porphyry/felsite; 2% PY/1% PO 208.00m-LC
HG-19-25	209.02	210.35	1.33	4D	Felsite	White/grey; FG; mod fol; mod alb banding; <5% speckled mafics; trace qtz veinlets; contains bands of 1A and 5B; barren
HG-19-25	210.35	213.2	2.85	1A	Massive Flows	Green/white; FG; mod fol; trace ser/bi/chl/car bleaching/banding; mod-str per chl; mod interstitial bi; mod alb banding; barren

HG-19-25	213.2	216.57	3.37	4B	Feldspar Porphyry	Grey/Purple/Pink; FG-MG; alternates 2 different units of 4B as well as bands of 1A (60% purple 4B/30% grey 4B/10% 1A); both 4B units have weak k-spar replacement of phenos; mod alb banding and weak qtz veinlets; mod sil. Larger unit has mod interstitial bi while smaller unit has str interstitial/speckled bi/chl. Barren
HG-19-25	216.57	218.5	1.93	1A	Massive Flows	Green/white; FG-MG; mod fol; trace ser/bi/chl/car bleaching/banding; mod-str per chl; mod interstitial bi; mod alb banding; barren
HG-19-25	218.5	220.78	2.28	6B	Gabbro	White/green; FG-MG; mod fol; str pervasive/MG replacement chl; FG have been bleached; mod alb banding; mod interstitial bi; contains 2 large (20cm) fractures filled with talc that contains 2% PY
HG-19-25	220.78	233.77	12.99	1A	Massive Flows	Green/white; FG-MG; mod fol; trace ser/bi/chl/car bleaching/banding; mod per chl; mod-str interstitial bi; mod alb banding; contains 2 minors 4B and a couple small 4B units; barren
HG-19-25	233.77	297.89	64.12	6A	Diorite	White/Pink/Grey; MG; no fol; mod interstitial bi; 30% of felsic MG have been k-spar altered; 60% Mafics; 40% felsics; contains a 6E/1A/qtz vein minor; barren
HG-19-25	297.89	300.15	2.26	1A	Massive Flows	Green/grey; FG; mod fol; weak alb banding/patches (with weak k-spar alteration); mod per chl; mod interstitial bi; barren
HG-19-25	300.15	301.65	1.5	6E	Intermediate Dyke	Grey; FG-MG; mod fol; mod interstitial bi; 20% MG amph/pyroxenes; 5% k-spar altered MG phenos; str bi alteration at UC - highly fractured; barren
HG-19-25	301.65	327	25.35	6A	Diorite	White/Pink/Grey; MG; no fol; mod interstitial bi; 10% of felsic MG have been k-spar altered (most near UC); 60% Mafics; 40% felsics; barren
HG-19-25			0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	13.35	14.35	1	787728	0.006	6
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	14.35	15.35	1	787729	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	OREAS 216			0	787730	6.62	6620
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	15.35	16.35	1	787731	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	51.41	52.41	1	787732	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	52.41	52.98	0.57	787733	0.011	11
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	52.98	53.98	1	787734	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	106	107	1	787735	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	107	108	1	787736	0.006	6
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	108	109	1	787737	0.011	11
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	109	109.82	0.82	787738	0.009	9
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay+Geochem	109.82	110.82	1	787739	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Blank			0	787740	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	110.82	111.44	0.62	787741	0.046	46
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	111.44	111.74	0.3	787742	0.01	10
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	111.74	112.74	1	787743	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	116.25	117.25	1	787744	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	117.25	117.75	0.5	787745	0.005	5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	117.75	118.75	1	787746	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	118.75	119.18	0.43	787747	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	119.18	119.8	0.62	787748	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	119.8	120.4	0.6	787749	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	OREAS 215			0	787750	3.47	3470
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	120.4	121.11	0.71	787751	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	121.11	121.64	0.53	787752	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	121.64	122.2	0.56	787753	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	122.2	123	0.8	787754	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	123	123.45	0.45	787755	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	123.45	124.45	1	787756	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	124.45	125.43	0.98	787757	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	160.81	161.81	1	787758	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	161.81	162.36	0.55	787759	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Blank			0	787760	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	162.36	162.9	0.54	787761	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	162.9	163.45	0.55	787762	0.0025	< 5

HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	163.45	164.15	0.7	787763	0.008	8
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	164.15	164.85	0.7	787764	0.007	7
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	164.85	165.55	0.7	787765	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	165.55	166.25	0.7	787766	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	166.25	166.95	0.7	787767	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	166.95	167.67	0.72	787768	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	167.67	168.18	0.51	787769	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	OREAS 210			0	787770	5.38	5380
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	168.18	168.74	0.56	787771	0.005	5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	168.74	169.12	0.38	787772	0.005	5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	169.12	169.69	0.57	787773	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	169.69	170.6	0.91	787774	0.005	5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	170.6	171.4	0.8	787775	0.005	5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	171.4	172.3	0.9	787776	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	172.3	173.1	0.8	787777	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	173.1	173.87	0.77	787778	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	173.87	174.87	1	787779	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Blank			0	787780	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	190.9	191.9	1	787781	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	191.9	192.68	0.78	787782	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	192.68	193.68	1	787783	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	206.68	207.28	0.6	787784	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	207.28	208	0.72	787785	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	208	208.55	0.55	787786	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	208.55	209.02	0.47	787787	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	209.02	210.02	1	787788	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	295.4	296.4	1	787789	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	OREAS 216			0	787790	6.54	6540
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	296.4	296.7	0.3	787791	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	296.7	297.2	0.5	787792	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	297.2	297.89	0.69	787793	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	297.89	298.5	0.61	787794	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	298.5	299.2	0.7	787795	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	299.2	299.58	0.38	787796	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	299.58	300.15	0.57	787797	0.0025	< 5
HG-19-25	Hambelton Grid	Actlabs	A19-04350	21-Mar-19	29-Mar-19	Assay	300.15	301.15	1	787798	0.0025	< 5



BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-26	0	2.46	2.46	OVB	Overburden	
HG-19-26	2.46	28.7	26.24	7A	Diabase	Medium/Dark grey/black; FG-MG; no fol; mod interstitial bi; mod mag; weak sauss fields with slight green colour - up to 2cm diameter; barren
HG-19-26	28.7	54.91	26.21	1A	Massive Flows	Green/grey; FG; mod fol; mod per chl; mod interstitial bi; trace k-spar in some bleaching closer to UC; weak-mod qtz/car veinlets throughout unit; weak-mod wispy ser/act bleaching (more closer to LC); trace PY in some bleaching (39.30-.40/53-54). Both contacts are heavily bi/chl altered and strongly fractured containing mud (about 10cm for UC; 5cm for LC)
HG-19-26	54.91	57.29	2.38	5B	Granodiorite	White/Pink/Grey; FG-MG; mod fol; 7% feldspar eyes; about 50% of felsic in unit have been k-spar altered; mod interstitial bi; about 75% felsic to 25% mafics; barren
HG-19-26	57.29	58.4	1.11	1A	Massive Flows	Green/grey; FG; mod fol; mod per chl; mod interstitial bi; weak-mod qtz/car veinlets throughout unit; weak-mod wispy ser/act bleaching with weak ser flooding from fracturing; barren
HG-19-26	58.4	85.67	27.27	7A	Diabase	Medium/Dark grey/black; FG-MG; no fol; mod interstitial bi; mod mag; mod sauss fields with strong green colour - up to 2cm diameter until 69m mark then trace for the rest of the unit until the last meter where it is mod again; barren. Ends with a minor 1A
HG-19-26	85.67	87.17	1.5	4B	Feldspar Porphyry	White/light pink/light purple/grey; FG-MG; mod fol; mod sil; mod interstitial bi; mod-str sil; 25% phenos - about 30% of which are k-spar altered; weak ser flooding near contacts; trace alb banding; barren
HG-19-26	87.17	91.03	3.86	1A	Massive Flows	Green/grey; FG; mod fol; mod per chl; mod interstitial bi; weak qtz/car veinlets throughout unit; weak-mod wispy ser/act bleaching; trace pillow selvages; barren
HG-19-26	91.03	91.83	0.8	4B	Feldspar Porphyry	Purple/white/green/grey; FG-MG; mod fol; mod interstitial bi; mod-str sil; trace speckled grt; weak qtz veinlets/alb banding; mod ser flooding by LC; mixes between being more of a 5B with greys/whites rather than purple to a purple 4B units - as a result the phenos are more augen texture (10% phenos); barren
HG-19-26	91.83	93.3	1.47	3D	Iron Formation	White/Purple/grey/green; FG; mod fol; weak boudinaged; str bedding of chert/bi/chl/ser; 3% blebby PO/3% diss PY
HG-19-26	93.3	109.79	16.49	1A	Massive Flows	Green/grey; FG; mod fol; mod per chl; mod interstitial bi; weak qtz/mod car veinlets; weak-mod wispy ser/act bleaching; trace PY found in some car veinlets in the first 2m of unit
HG-19-26	109.79	120.3	10.51	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with finer grained plagioclase interstitially throughout. Intermittent calcite, biotite, and quartz stringers, wisps.
HG-19-26	120.3	125.63	5.33	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. <1% disseminated py from 126.62 to 127m.
HG-19-26	125.63	128.68	3.05	6B	Gabbro	mg to cg, dark green to dark grey mafic unit with minor amounts of foliation. Unit is massive in texture and composed predominately of amph/pyroxene minerals with finer grained plagioclase interstitially throughout. Intermittent calcite and quartz stringers, wisps.
HG-19-26	128.68	135	6.32	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	135	135.56	0.56	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 2-3% sulphide blebs, predominately po, and py with lesser spy.

HG-19-26	135.56	149.52	13.96	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow sections of 4b intermittently in areas.
HG-19-26	149.52	150.73	1.21	7A	Diabase	fg to mg, dark grey mafic unit with a massive and glomerophyres texture. Unit is composed of predominately mafic minerals with lesser amounts of light grey feldspar intermittently throughout. Centimetric to millimetric feldspar glomerophyres suspended occasionally throughout the unit. Minor magnetic properties.
HG-19-26	150.73	182.2	31.47	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	182.2	185.22	3.02	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.
HG-19-26	185.22	189.36	4.14	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. 2-3% blebby po and py from 185.22 to 185.6 associated with an increased amount of biotite banding.
HG-19-26	189.36	193.11	3.75	6E	Intermediate Dyke	fg to mg, grey to dark green to grey intermediate unit with a slight pink hue in sections. Unit is massive in texture, contains moderate foliation and composed of equal parts plagioclase and amphiboles/pyroxene. Pink infill fractures occasionally in areas as well as slight pink staining in surrounding sections.
HG-19-26	193.11	195.3	2.19	FZ	Fault Zone	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Unit is fractured throughout (up to 20 fractures per meter). Minor sections of fault gauge at 194.7 and 195.2m.
HG-19-26	195.3	198.47	3.17	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	198.47	198.85	0.38	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 4-5% thin banded pyrite. Quartz vein from 198.47 to 198.52 with minor blebby py.
HG-19-26	198.85	208.43	9.58	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	208.43	209.1	0.67	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 4-5% thin banded pyrite with minor amounts of spy stringers.
HG-19-26	209.1	211.92	2.82	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg silica and feldspar ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts show minor amounts of strain from 209.4 to 210.3, the remaining portion of the unit contains highly strained phenocrysts.
HG-19-26	211.92	212.17	0.25	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 5% thin banded pyrite with minor amounts of blebby spy.



HG-19-26	212.17	213.28	1.11	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	213.28	214.55	1.27	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg silica and feldspar ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts are moderately strained. Overall unit appears minorly silicified.
HG-19-26	214.55	218.15	3.6	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	218.15	218.5	0.35	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 3% thin banded po.
HG-19-26	218.5	227.19	8.69	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	227.19	228.56	1.37	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.
HG-19-26	228.56	251.43	22.87	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Light green alteration banding increases from 232.25 to 243, occasional thin biotite banding in areas.
HG-19-26	251.43	254.88	3.45	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.
HG-19-26	254.88	256.43	1.55	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	256.43	263	6.57	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially. <1% disseminated pyrite.
HG-19-26	263	264.47	1.47	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	264.47	265.63	1.16	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.



HG-19-26	265.63	278.55	12.92	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Quartz vein from 272.8 to 273 with minor blebby cpy.
HG-19-26	278.55	280	1.45	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. No visible sulphides. Series of narrow quartz veinlets intersect the unit from 279.36 to 279.42, 279.48 to 279.57, and 279.7 to 279.79m.
HG-19-26	280	280.78	0.78	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	280.78	281.15	0.37	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately ~3-5% thin banded po and py.
HG-19-26	281.15	285.03	3.88	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	285.03	286	0.97	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin biotite banding. No notable sulphides
HG-19-26	286	286.36	0.36	4ALT	Altered Feldspar Porphyry	fg grey unit with a slight purple hue; high degree of silicification. Fg silica based ground mass with highly strained and elongated feldspar phenocrysts. Light green alteration haloes surround some healed fractures. No sulphides visible.
HG-19-26	286.36	291.95	5.59	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	291.95	295.68	3.73	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin biotite banding. No notable sulphides
HG-19-26	295.68	320.23	24.55	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	320.23	325.1	4.87	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially. minor to moderate pink potassic alteration strains phenocrysts in the second half of the unit.
HG-19-26	325.1	326.57	1.47	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Patchy blebs of coarse grained pyrite intermittently throughout; Approximately 2% overall.


HG-19-26	326.57	342	15.43	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. pyrite stringer at 339 meters; <1% sulphides overall. High frequency of fracturing from 326.7 to 327.5 (20+ fractures per meter). Minor fault gauge at 331.5
HG-19-26	342	343	1	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Series of pyrite stringers throughout; 1-2% sulphides overall.
HG-19-26	343	347.12	4.12	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Minor amount of quartz flooding and epidote alteration associated with up to .5% blebby pyrite from 345.35 to 346.24m.
HG-19-26	347.12	348.65	1.53	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.
HG-19-26	348.65	372.17	23.52	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow section of pink pegmatite from 358.12 to 358.27m.
HG-19-26	372.17	379.66	7.49	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially.
HG-19-26	379.66	381.07	1.41	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	381.07	383.62	2.55	7B	Diorite	mg, black and white speckled unit with a massive texture. Unit is intermediate in composition and composed predominately of plagioclase with black mafics speckled throughout; lesser amount of quartz. Potentially a granodiorite.
HG-19-26	383.62	385.13	1.51	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	385.13	387.18	2.05	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a small amount of straining. Minor amounts of biotite interstitially. <1% disseminated sulphides.
HG-19-26	387.18	391.5	4.32	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow subsections of 4b intermittently throughout.

HG-19-26	391.5	397.56	6.06	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Unit starts in a 4b subunit containing up to 10 fractures/meter and pink potassic straining. cg Blebby py (up to 4%) from 396.36 to 397.05
HG-19-26	397.56	409.31	11.75	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit. Several narrow sub sections of 4b across unit.
HG-19-26	409.31	411.29	1.98	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-26	411.29	418.09	6.8	7B	Diorite	mg, black and white speckled unit with a massive texture. Unit is intermediate in composition and composed predominately of plagioclase with black mafics speckled throughout; lesser amount of quartz. Potentially a granodiorite. Up to 1% blebby mo. and 1% blebby py associated with quartz veining with in the unit.
HG-19-26	418.09	420	1.91	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-26	420	420	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	89.97	90.97	1	787799	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Blank				787800	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	90.97	91.83	0.86	787801	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	91.83	92.27	0.44	787802	0.007	7
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	92.27	92.57	0.3	787803	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	92.57	93.3	0.73	787804	0.018	18
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	93.3	94.3	1	787805	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	94.3	95.3	1	787806	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	134	135	1	787807	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	135	135.56	0.56	787808	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	135.56	136.5	0.94	787809	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	OREAS 215				787810	3.46	3460
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	184.5	185.22	0.72	787811	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	185.22	185.6	0.38	787812	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	185.6	186.5	0.9	787813	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	198	198.47	0.47	787814	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	198.47	198.85	0.38	787815	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	198.85	199.5	0.65	787816	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	207.5	208.43	0.93	787817	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	208.43	209.1	0.67	787818	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	209.1	210	0.9	787819	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Blank				787820	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	210	211	1	787821	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	211	211.92	0.92	787822	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	211.92	212.17	0.25	787823	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	212.17	213	0.83	787824	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	217.1	218.15	1.05	787825	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	218.15	218.5	0.35	787826	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	218.5	219	0.5	787827	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	231.78	232.25	0.47	787828	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	232.25	233	0.75	787829	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	OREAS 210				787830	5.36	5360
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	233	233.94	0.94	787831	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	233.94	234.58	0.64	787832	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	234.58	235	0.42	787833	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	235	236	1	787834	0.0025	< 5

HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	236	237.14	1.14	787835	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	237.14	238	0.86	787836	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	238	239	1	787837	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	239	240	1	787838	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	240	241	1	787839	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Blank				787840	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	241	241.83	0.83	787841	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	241.83	242.5	0.67	787842	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	242.5	243	0.5	787843	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	243	244	1	787844	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	272	272.8	0.8	787845	0.005	5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	272.8	273.1	0.3	787846	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	273.1	274	0.9	787847	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	277	277.82	0.82	787848	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	277.82	278.55	0.73	787849	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	OREAS 215				787850	3.37	3370
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	278.55	279	0.45	787851	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	279	280	1	787852	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	280	280.78	0.78	787853	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	280.78	281.15	0.37	787854	0.022	22
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	281.15	282.15	1	787855	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	284	285.03	1.03	787856	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	285.03	286	0.97	787857	0.005	5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	286	286.36	0.36	787858	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	286.36	286.7	0.34	787859	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Blank				787860	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	286.7	287	0.3	787861	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	291.12	291.95	0.83	787862	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	291.95	293	1.05	787863	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	293	294	1	787864	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	294	295	1	787865	0.0025	< 5
HG-19-26	Hambelton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	295	295.68	0.68	787866	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	295.68	296.35	0.67	787867	0.005	5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	256.43	257	0.57	787868	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	257	258	1	787869	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	OREAS 216				787870	6.21	6210
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	258	259	1	787871	0.0025	< 5

HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	324	325.1	1.1	787872	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	325.1	326	0.9	787873	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	326	326.57	0.57	787874	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	326.57	327.57	1	787875	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	337.83	338.68	0.85	787876	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	338.68	339	0.32	787877	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	339	339.94	0.94	787878	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	341.32	342	0.68	787879	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Blank				787880	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	342	343	1	787881	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	343	344	1	787882	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	344	345	1	787883	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	345	345.35	0.35	787884	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	345.35	346.24	0.89	787885	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	346.24	347.12	0.88	787886	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	396	396.36	0.36	787887	0.118	118
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	396.36	397.05	0.69	787888	0.011	11
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	397.05	397.56	0.51	787889	0.008	8
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	OREAS 210				787890	5.41	5410
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	411.29	411.98	0.69	787891	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay+Geochem	411.98	413.02	1.04	787892	0.0025	< 5
HG-19-26	Hambleton Grid	Actlabs	A19-05036	04-Apr-19	24-Apr-19	Assay	413.02	414	0.98	787893	0.0025	< 5

		Hole Number:		HG-19-27					
		Drill Rig:		HC-150-16					
		Claim Number:							
Location		Drill Hole Orientation		Dates Drilled:	Start Date:		End Date:		
Surface					Mar-19-2019		Mar-21-2019		
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	130	Drill Contractor:	Forages Chibougamau Ltée				
Easting	643257								
Northing	5410525	Dip:	-50	Dates Logged:	Start Date:		End Date:		
Elevation(m)					Mar-19-2019		Mar-22-2019		
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	301.88	Logger 1:	Andrew Wehrfritz				
Easting				Logger 2:					
Northing		Core Size:	NQ	Logger 3:					
Elevation(m)				Assay Lab:	Actlabs				
Casing				Dip Tests					
Purpose of Hole	Follow up on VLF anomaly and 1ALT units intersected in HG-19-25 and HG-19-26	Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.		
		21.0	129.5	-50.6	56248		137.1		
		51.0	127.9	-50.1	56436		135.5		
Results	Vast majority of mineralization is concentrated in sulphide facies iron formations. Alteration zones (barren) also intersected; 4ALT; 178.9 to 179.5 and 183.37 to 184.85. 1ALT; 184.85 to 185.21 and 188.85 to 190.05.	81.0	127.2	-49.9	55707		134.8		
		111.0	127.4	-49.4	55899		135		
		141.0	125.6	-48.9	55917		133.2		
		171.0	125.6	-48.6	56003		133.2		
		201.0	125.3	-48.1	55876		132.9		
		231.0	132.9	-47.7	54539		140.5		
Comments		261.0	125.0	-47.0	55840		132.6		
		291.0	125.0	-46.4	55824		132.6		
			-7.6						
			-7.6						
			-7.6						
			-7.6						
Azimuth corrected to 7.6 degrees west declination			-7.6						
			-7.6						
			-7.6						



BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-27	0	0.1	0.1	OV B	Overburden	
HG-19-27	0.1	21	20.9	7A	Diabase	mg, grey mafic unit with a predominately massive texture. Unit is composed predominately of mafic minerals with some interstitial plagioclase Millimetric to centimetric sized white plagioclase glomerophyres scattered occasionally throughout the unit; producing a glomerophyres texture. Disseminated magnetite throughout produce moderate magnetic properties.
HG-19-27	21	37.02	16.02	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	37.02	38.8	1.78	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	38.8	51	12.2	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	51	57.09	6.09	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	57.09	65.63	8.54	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	65.63	79.42	13.79	7A	Diabase	mg, grey mafic unit with a predominately massive texture. Unit is composed predominately of mafic minerals with some interstitial plagioclase Millimetric to centimetric sized white plagioclase glomerophyres scattered occasionally throughout the unit; producing a glomerophyres texture. Disseminated magnetite throughout produce moderate magnetic properties.
HG-19-27	79.42	83.46	4.04	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	83.46	83.7	0.24	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately ~3% stringers py.
HG-19-27	83.7	91.09	7.39	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur occasionally. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	91.09	91.35	0.26	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately ~4% sph stringers and 1-2% disseminated py.




HG-19-27	91.35	101.16	9.81	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	101.16	103.7	2.54	7A	Diabase	mg, grey mafic unit with a predominately massive texture. Unit is composed predominately of mafic minerals with some interstitial plagioclase Millimetric to centimetric sized white plagioclase glomerophyres scattered occasionally throughout the unit; producing a glomerophyres texture. Disseminated magnetite throughout produce moderate magnetic properties.
HG-19-27	103.7	108.32	4.62	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Pink potassic staining throughout most of the unit.
HG-19-27	108.32	119.25	10.93	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Several narrow sections of potassically altered feldspar porphyry intermittently throughout.
HG-19-27	119.25	120.53	1.28	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	120.53	126	5.47	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Several narrow sections of intermediate dykes between 122 and 124. Narrow section of iron formation from 125.6 to 125.7m. Py stringers from 126 to 127
HG-19-27	126	127	1	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Intermittent py stringers ; 1-2% overall. Higher frequency of fracturing; fault gauge at 126.2 and 126.5m.
HG-19-27	127	128.27	1.27	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	128.27	130.12	1.85	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	130.12	130.8	0.68	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately ~5% disseminated py and py stringers.

HG-19-27	130.8	134	3.2	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	134	134.45	0.45	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite stringers. Quartz and calcite veinlets and veins intermittently throughout the unit. Quartz flooding associated with increased biotite banding from 134 to 134.45; 3% pyrite stringers, 1% fine cpy and 1% blebby sph in this interval.
HG-19-27	134.45	135	0.55	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	135	137.12	2.12	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	137.12	142.6	5.48	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	142.6	143.84	1.24	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	143.84	178.9	35.06	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	178.9	179.5	0.6	4ALT	Altered Feldspar Porphyry	fg grey unit with a purple hue; high degree of silicification. Fg silica based ground mass with highly strained and elongated feldspar phenocrysts. Light green alteration haloes surround some healed fractures. No sulphides
HG-19-27	179.5	183.37	3.87	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	183.37	184.85	1.48	4ALT	Altered Feldspar Porphyry	fg grey unit with a purple hue; moderate degree of silicification. Fg silica based ground mass with highly strained and elongated feldspar phenocrysts. Light green alteration haloes surround some healed fractures. No sulphides. Green alteration banding in certain sections.
HG-19-27	184.85	185.21	0.36	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides

HG-19-27	185.21	188.85	3.64	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	188.85	190.05	1.2	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides
HG-19-27	190.05	204.72	14.67	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	204.72	208.52	3.8	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	208.52	211.8	3.28	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. 5+ fractures per meter.
HG-19-27	211.8	214	2.2	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Approximately 5+ fractures per meter.
HG-19-27	214	224.74	10.74	5B	Granodiorite	mg, white to light grey felsic unit with black speckling and a massive texture. Unit is composed predominately of plagioclase with black mafics speckled throughout; with lesser amounts of quartz. Minor pink potassic staining intermittently in sections. Millimetric sized mafic fragments intermittently throughout. Quartz flooding from 223.9 to 224.1m.
HG-19-27	224.74	230.9	6.16	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin occasional light green alteration bands and minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	230.9	234.7	3.8	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	234.7	243.24	8.54	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin occasional light green alteration bands and minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-27	243.24	244.52	1.28	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially.
HG-19-27	244.52	255.63	11.11	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas.

HG-19-27	255.63	276.56	20.93	5B	Granodiorite	mg, white to light grey felsic unit with black speckling and a massive texture. Unit is composed predominately of plagioclase with black mafics speckled throughout; with lesser amounts of quartz. Pink potassic staining intermittently in sections.
HG-19-27	276.56	278.47	1.91	4E	Pegmatite	cg to vcg, pink felsic unit with a massive texture. Composed of pink feldspar, Smokey quartz and lesser amounts of muscovite.
HG-19-27	278.47	301.88	23.41	5B	Granodiorite	mg, white to light grey felsic unit with black speckling and a massive texture. Unit is composed predominately of plagioclase with black mafics speckled throughout; with lesser amounts of quartz. Low frequency of millimetric sized mafic xenoliths throughout.
HG-19-27	301.88	301.88	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	82.95	83.35	0.4	787894	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay+Geochem	83.35	83.7	0.35	787895	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	83.7	84.4	0.7	787896	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	90	91	1	787897	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay+Geochem	91	91.35	0.35	787898	0.019	19
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	91.35	92	0.65	787899	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Blank				787900	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	125	126	1	787901	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	126	127	1	787902	0.005	5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	127	128	1	787903	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	129	130.12	1.12	787904	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay+Geochem	130.12	130.8	0.68	787905	0.014	14
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	130.8	131.5	0.7	787906	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	133.5	134	0.5	787907	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay+Geochem	134	135	1	787908	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	135	136	1	787909	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	OREAS 215				787910	3.53	3530
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	136	137.12	1.12	787911	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	137.12	138	0.88	787912	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	178	178.9	0.9	787913	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	178.9	179.5	0.6	787914	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	179.5	180	0.5	787915	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	182.75	183.37	0.62	787916	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	183.37	184	0.63	787917	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	184	184.85	0.85	787918	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	184.85	185.21	0.36	787919	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Blank				787920	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	185.21	186	0.79	787921	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	188	188.85	0.85	787922	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	188.85	190.05	1.2	787923	0.0025	< 5
HG-19-27	Hambleton Grid	Actlabs	A19-05038	04-Apr-19	17-Apr-19	Assay	190.05	191	0.95	787924	0.0025	< 5

		Hole Number:		HG-19-28			
		Drill Rig:		HC-150-16			
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				Mar-21-2019		Mar-25-2019	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	50	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643257						
Northing	5410525	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					Mar-22-2019		Mar-25-2019
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	420.00	Logger 1:	Andrew Wehrfritz		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Follow up on VLF anomaly in the area as well as alteration units intersected in HG-19-25,26,27.	<b>Dip Tests</b>					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		21.0	45.7	-49.5	56285		53.3
		51.0	45.2	-49.0	56110		52.8
Results	Majority of mineralization is concentrated in Narrow Iron Formation intermittently through the hole. Occasional 1MIN units. Altered mafic flows (barren) intersected from 234.11 to 239.1, 242.25 to 45.73, and 249 to 249.38. Altered Feldspar porphyry intersected from 239.1 to 242.25.	81.0	45.6	-48.5	55941		53.2
		111.0	45.4	-48.2	55936		53
		141.0	46.4	-47.8	55294		54
		171.0	45.2	-47.6	56473		52.8
		201.0	46.3	-46.9	56043		53.9
		231.0	46.5	-46.3	55815		54.1
Comments		261.0	46.3	-45.7	55885		53.9
		291.0	47.4	-45.2	55949		55
		321.0	47.1	-44.9	55872		54.7
		351.0	47.9	-44.7	55757		55.5
		381.0	47.9	-44.4	55955		55.5
		411.0	47.7	-43.8	55975		55.3
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-28	0	3	3	CAS	Casing	Casing
HG-19-28	3	17.6	14.6	7A	Diabase	mg, grey mafic unit with a predominately massive texture. Unit is composed of mafic minerals with some interstitial plagioclase. Millimetric to centimetric sized white plagioclase glomerophyes scattered occasionally throughout the unit; producing a glomerophyes texture in areas. Disseminated magnetite throughout produce moderate magnetic properties. Moderate frequency of fracturing; approximately 5 fractures per meter.
HG-19-28	17.6	18.18	0.58	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 2-3% disseminated pyrite
HG-19-28	18.18	42.34	24.16	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	42.34	44.23	1.89	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a moderate amount of straining. Minor amounts of biotite interstitially. Light green alteration haloes surrounding sericite banding.
HG-19-28	44.23	64.17	19.94	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	64.17	65.3	1.13	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approximately 1% disseminated po and pyrite as well as lesser amounts of sphalerite. 4b subunit.
HG-19-28	65.3	77.47	12.17	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin occasional light green alteration bands and minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	77.47	84.6	7.13	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Minor amounts of blebby py (<1%) Gradation upper and lower contacts.
HG-19-28	84.6	93.15	8.55	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin occasional light green alteration bands and minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Unit appears gabbroic in areas.
HG-19-28	93.15	99.15	6	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	99.15	99.5	0.35	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains 2-3% po, py and cpy
HG-19-28	99.5	135.27	35.77	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding; light green and biotite banding increases from 134.8 to 135.27 associated with minor blebby sulphides. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow sections of diabase from 100.97 to 101.03 and 110.27 to 110.63. 4b section from 109.95 to 110.27 and 110.91 to 111.16.
HG-19-28	135.27	144.64	9.37	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. Light green alteration associated with minor sulphide blebs from 135.7 to 135.89



HG-19-28	144.64	145.23	0.59	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains ~5% py blebs and stringers.
HG-19-28	145.23	152.6	7.37	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. Fractured section associated with blebby pyrite along some healed fractures from 147m to 149m (20+ fractures per meter in this interval). pyrite veinlet at 150.5.
HG-19-28	152.6	153.77	1.17	3G	Sulphide Facies Iron Formation	fg, light grey and green to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands with light green alteration at 153m. Mafic composition increases after 153.2m. Unit contains approximately 5% po and py stringers. Minor vuggy texture in areas.
HG-19-28	153.77	161.62	7.85	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding; increased biotite banding from 153.9 to 154.3m. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	161.62	163.6	1.98	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 3% po and py stringers / blebs with minor amounts of sphalerite. Narrow sections of mafic flows intermittently throughout.
HG-19-28	163.6	165.57	1.97	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-28	165.57	175.07	9.5	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Quartz veinlet from 168.1 to 168.13 with approximately 3% blebby py.
HG-19-28	175.07	177.37	2.3	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-28	177.37	181.11	3.74	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	181.11	182.64	1.53	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with faint millimetric feldspar phenocrysts suspended throughout. Phenocrysts are difficult to see, potentially an intermediate dyke. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-28	182.64	234.11	51.47	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Minor intermediate unit from 230.54 to 231.2. Minor 4b subunit from 233.44 to 234.11 with approximately .5% po/py blebs; phenocrysts are very faint; potentially an intermediate dyke.
HG-19-28	234.11	239.1	4.99	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by wavy light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides
HG-19-28	239.1	242.25	3.15	4ALT	Altered Feldspar Porphyry	fg grey unit with a purple hue; moderate degree of silicification. Fg silica based ground mass with highly strained and elongated feldspar phenocrysts. Light green alteration haloes surround some healed fractures. No sulphides. Green alteration banding in certain sections.




HG-19-28	242.25	245.73	3.48	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by wavy light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides
HG-19-28	245.73	249	3.27	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Occasional quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	249	249.38	0.38	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by wavy light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides
HG-19-28	249.38	286.76	37.38	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Occasional quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	286.76	309.58	22.82	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow section of pink pegmatite from 288.16 to 288.3. Fracture zone from 288 to 291 with on average 10+ fractures / meter. Low to moderate degree of magnetism in some areas.
HG-19-28	309.58	312.8	3.22	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. High frequency of fracturing from 311 to 312 (20+ fractures/ meter), pink and light green staining associated with this section as well.
HG-19-28	312.8	313.68	0.88	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. <<1% blebby py
HG-19-28	313.68	313.98	0.3	1MIN	Mineralized Mafic Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. Approximately 1-2% blebby py.
HG-19-28	313.98	317.4	3.42	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. <<1% blebby py.
HG-19-28	317.4	319.72	2.32	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-28	319.72	321.55	1.83	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. ~.5% disseminated py throughout the unit.
HG-19-28	321.55	322.55	1	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-28	322.55	331.4	8.85	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase. Minor amounts of disseminated biotite is also observed. Quartz and calcite veinlets and veins intermittently throughout the unit. Occasional narrow intermediate dykes.

HG-19-28	331.4	339.15	7.75	4B	Feldspar Porphyry	fg to mg, light grey to pink felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor amount of straining. Minor amounts of biotite interstitially. Light green sericite and pink potassic alteration haloes surround some healed fractures. Narrow sections of pink pegmatite are associated with potassic alteration
HG-19-28	339.15	354.45	15.3	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Minor amounts of blebby py (<1%) Gradation upper and lower contacts.
HG-19-28	354.45	358.65	4.2	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	358.65	364.3	5.65	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas.
HG-19-28	364.3	420	55.7	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-28	420	420	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	17	17.6	0.6	787925	0.016	16
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	17.6	18.18	0.58	787926	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	18.18	19	0.82	787927	0.007	7
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	63.1	64.17	1.07	787928	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	64.17	64.52	0.35	787929	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	OREAS 216				787930	6.81	6810
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	64.52	65.3	0.78	787931	0.01	10
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	65.3	66	0.7	787932	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	98.23	99.15	0.92	787933	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	99.15	99.5	0.35	787934	0.02	20
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	99.5	100	0.5	787935	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	134	134.75	0.75	787936	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	134.75	135.27	0.52	787937	0.03	30
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	135.27	135.89	0.62	787938	0.005	5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	135.89	136.5	0.61	787939	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Blank				787940	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	144	144.64	0.64	787941	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	144.64	145.23	0.59	787942	0.016	16
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	145.23	146	0.77	787943	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	152	152.6	0.6	787944	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	152.6	153.18	0.58	787945	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	153.18	153.77	0.59	787946	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	153.77	154.5	0.73	787947	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	161	161.62	0.62	787948	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	161.62	162	0.38	787949	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	OREAS 210				787950	5.27	5270
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	162	163	1	787951	0.012	12
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay+Geochem	163	163.6	0.6	787952	0.026	26
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	163.6	164.5	0.9	787953	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	167.5	168	0.5	787954	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	168	168.33	0.33	787955	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	168.33	169	0.67	787956	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	232.44	233.44	1	787957	0.005	5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	233.44	234.11	0.67	787958	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	234.11	235	0.89	787959	0.007	7

HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Blank					787960	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	235	236	1		787961	0.009	9
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	236	237	1		787962	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	237	238	1		787963	0.005	5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	238	239.1	1.1		787964	0.008	8
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	239.1	240	0.9		787965	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	240	241	1		787966	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	241	241.5	0.5		787967	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	241.5	242.25	0.75		787968	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	242.25	243	0.75		787969	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	OREAS 215					787970	3.6	3600
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	243	244	1		787971	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	244	245	1		787972	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	245	245.73	0.73		787973	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	245.73	246.73	1		787974	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	246.73	247.5	0.78		784179	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank					784180	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	247.5	248	0.5		784181	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	248	249	1		787975	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	249	249.38	0.38		787976	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	249.38	250.38	1		787977	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	312.8	313.68	0.88		787978	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	313.68	313.98	0.3		787979	0.007	7
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Blank					787980	0.0025	< 5
HG-19-28	Hambleton Grid	Actlabs	A19-05484	15-Apr-19	26-Apr-19	Assay	313.98	314.6	0.62		787981	0.005	5

		Hole Number:	HG-19-29				
		Drill Rig:	HC-150-16				
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:	
Surface					Mar-26-2019	Mar-30-2019	
Planned Coordinates NAD87 UTM Zone 16N		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée		
Easting	643169						
Northing	5410900	Dip:	-50	Dates Logged:	Start Date:	End Date:	
Elevation(m)					Mar-26-2019	Mar-30-2019	
Final Pick up NAD87 UTM Zone 16N		Depth(m):	450.00	Logger 1:	Andrew Wehrfritz		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing				Dip Tests			
Purpose of Hole	Follow up on a VLF anomaly in the area.	Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		21.0	83.8	-48.9	56583		91.4
		51.0	83.9	-48.3	56500		91.5
		81.0	84.1	-47.9	56128		91.7
Results	Mineralization and alteration zones intersected intermittently from 249.07 to 249.73 with ~1% sulphides. Stronger mineralized 1ALT intersected from 249.07 to 249.7 with ~5% sulphides.	111.0	83.9	-47.4	56032		91.5
		141.0	83.9	-46.4	55799		91.5
		171.0	83.4	-45.8	55829		91
		201.0	82.9	-45.3	55771		90.5
		231.0	82.1	-45.0	55905		89.7
		261.0	81.8	-44.6	55917		89.4
Comments		291.0	82.0	-44.2	55682		89.6
		321.0	82.6	-43.7	55981		90.2
		351.0	82.1	-42.7	55804		89.7
		381.0	82.2	-42.1	55950		89.8
		411.0	81.9	-41.6	55924		89.5
		441.0	82.4	-41.3	55965		90
		471.0	81.4	-40.7	55314		89
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-29	0	6	6	CAS	Casing	
HG-19-29	6	31.83	25.83	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin occasional light green alteration bands and minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Unit appears gabbroic in some areas. Gradational lower contact.
HG-19-29	31.83	40.22	8.39	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Gradation upper and lower contacts. 10+ fractures in the first meter.
HG-19-29	40.22	75.85	35.63	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Highly fractured feldspar porphyry subunit from 44.9 to 45.45 (15+ fractures). High degree of fracturing (20+ per meter) from 46 to 48.2m. Narrow pink intrusions at 68.9m and 71.1m; composed predominately of k-spar and lesser dark green minerals (syenite?)
HG-19-29	75.85	77.58	1.73	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. <1% disseminated py.
HG-19-29	77.58	101.75	24.17	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-29	101.75	116.65	14.9	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Unit appears gabbroic in some areas. Gradational upper and lower contacts.
HG-19-29	116.65	135.5	18.85	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Subunit of Sulphide facies iron formation from 116.65 to 117.6m with 3-5% sulphides
HG-19-29	135.5	139.85	4.35	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout.
HG-19-29	139.85	141.85	2	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-29	141.85	144.15	2.3	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout.
HG-19-29	144.15	145.57	1.42	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-29	145.57	146.75	1.18	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-29	146.75	147.1	0.35	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 3% po and py stringers

HG-19-29	147.1	157.47	10.37	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow sections of 4b in sections.
HG-19-29	157.47	157.77	0.3	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 3% po and py stringers
HG-19-29	157.77	168.75	10.98	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. Narrow intermittent sections of 4b.
HG-19-29	168.75	171.75	3	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. narrow quartz veinlet at 170 with a few blebs of py.
HG-19-29	171.75	173.65	1.9	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz and calcite veinlets and veins intermittently throughout the unit. calcite stringers and wisps increase with depth.
HG-19-29	173.65	178.12	4.47	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-29	178.12	195.28	17.16	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Frequent calcite stringers and wisps.
HG-19-29	195.28	200	4.72	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. Minor amount of potassic alteration
HG-19-29	200	211.37	11.37	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Frequent calcite stringers and wisps. High degree of fracturing throughout majority of the unit associated with healed fractures; some sections are talc altered and resemble ultramafic with moderate magnetism (e.g. 205m)
HG-19-29	211.37	212.2	0.83	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. 2% blebby py
HG-19-29	212.2	215	2.8	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-29	215	224.1	9.1	FZ	Fault Zone	Highly fractured; blocky core composed predominately of mafics; some sections of feldspar porphyry with pink potassic alteration.
HG-19-29	224.1	227.09	2.99	4B	Feldspar Porphyry	fg to mg, light grey, pink, felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a moderate to high amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. Pink staining throughout the unit associated with a vuggy texture in areas. Minor to moderate amounts of silicification.



HG-19-29	227.09	227.45	0.36	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 5% py stringers/blebs
HG-19-29	227.45	249.07	21.62	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit.
HG-19-29	249.07	249.73	0.66	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded and pillowed texture. Mafics accompanied by wavy light green alteration bands composed of chlorite/epidote and a moderate to high degree of silicification associated with alternating narrow sections of purple silicified sheared feldspar porphyry. Minor amounts of biotite banding. ~5% blebby pyrite throughout. Feldspar porphyry sections appear cherty.
HG-19-29	249.73	262.84	13.11	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Blebby py at 253.9 and 254.2m.; less than 1% py overall in the unit. Syenite subunit with approx. 1% disseminated sulphide and vuggy
HG-19-29	262.84	271.34	8.5	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Approximately 1% disseminated py
HG-19-29	271.34	272	0.66	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded/pillowed texture and moderate foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a some thin biotite banding. Approximately 2% disseminated sulphides (po and py).
HG-19-29	272	273.67	1.67	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Disseminated py throughout, up to 1% in sections. Quartz veinlets at 272.1 associated with an increase in blebby py.
HG-19-29	273.67	274.05	0.38	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by wavy light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. Less than 1% disseminated py.
HG-19-29	274.05	282.28	8.23	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Disseminated py throughout, up to 1% in sections.
HG-19-29	282.28	282.9	0.62	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a some thin biotite banding. Less than 1% disseminated py.
HG-19-29	282.9	306.74	23.84	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Disseminated py throughout, up to 1% in sections. Minor amounts of fracturing from 286.7 to 287. Narrow felsite unit with a cherty texture from 294.88 to 295.6m containing 1-2% diss py.
HG-19-29	306.74	371.42	64.68	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. <<1% disseminated sulphides overall. Narrow qtz-carb veinlet at 312.85 containing blebby sulphides. Network of hairline carbonate filled healed fractures from 324 to 327.




HG-19-29	371.42	385.23	13.81	4B	Feldspar Porphyry	fg to mg, light grey, felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding frequent healed fractures. Minor to moderate amounts of silicification. Quartz veinlet at 382.82 associated with some blebby cpy and py.
HG-19-29	385.23	391.45	6.22	1B	Pillowed Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. increased frequency of calcite veins from 388 to 390.
HG-19-29	391.45	397.13	5.68	4B	Feldspar Porphyry	fg to mg, light grey, felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding frequent healed fractures. Minor to moderate amounts of silicification. Disseminated pyrite throughout the majority of the unit ; approx. 1% disseminated throughout. Quartz vein from 392.72 to 392.84m containing blebby po.
HG-19-29	397.13	403.05	5.92	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-29	403.05	420.51	17.46	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit.
HG-19-29	420.51	436.15	15.64	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Gradation upper and lower contacts. < 1% po stringers. Rubble zone from 435.5 to 435.7m.
HG-19-29	436.15	444	7.85	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. <1% po stringers overall. 1 cm wide po and py band located at 436.25
HG-19-29	444	446.86	2.86	1MIN	Mineralized Mafic Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Green banding decreases with depth and appears more gabbroic in grainsize and texture. ~1% po stringers.
HG-19-29	446.86	470.4	23.54	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Gradation lower contact.
HG-19-29	470.4	483	12.6	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Occasional po stringers.
HG-19-29	483	483	0			EOH

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	75	75.85	0.85	787982	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	75.85	77	1.15	787983	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	77	77.58	0.58	787984	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	77.58	78.5	0.92	787985	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	115.65	116.65	1	787986	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	116.65	117.6	0.95	787987	0.005	5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	117.6	118.2	0.6	787988	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	146	146.75	0.75	787989	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	OREAS 216				787990	6.79	6790
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	146.75	147.1	0.35	787991	0.005	5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	147.1	148	0.9	787992	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	157	157.47	0.47	787993	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	157.47	157.77	0.3	787994	0.02	20
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	157.77	158.5	0.73	787995	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	210	211	1	787996	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	211	211.37	0.37	787997	0.01	10
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	211.37	212.2	0.83	787998	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	212.2	213	0.8	787999	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Blank				788000	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	226	227.09	1.09	786001	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	227.09	227.45	0.36	786002	0.009	9
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	227.45	228	0.55	786003	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	248	249.07	1.07	786004	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	249.07	249.73	0.66	786005	0.006	6
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	249.73	250.3	0.57	786006	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	262	262.84	0.84	786007	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	262.84	264	1.16	786008	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	264	265	1	786009	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	OREAS 210				786010	5.64	5640
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	265	266	1	786011	0.006	6
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	266	267	1	786012	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	267	268	1	786013	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	268	269	1	786014	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	269	270	1	786015	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	270	271	1	786016	0.0025	< 5

HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	271	271.34	0.34	786017	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	271.34	272	0.66	786018	0.009	9
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	272	273	1	786019	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Blank				786020	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	273	273.67	0.67	786021	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	273.67	274.05	0.38	786022	0.005	5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	274.05	275	0.95	786023	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	275	276	1	786024	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	276	277	1	786025	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	277	278	1	786026	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	278	279	1	786027	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	279	280	1	786028	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	280	281	1	786029	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	OREAS 215				786030	3.63	3630
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	281	281.75	0.75	786031	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	281.75	282.28	0.53	786032	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	282.28	282.9	0.62	786033	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	282.9	284	1.1	786034	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	284	285	1	786035	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	285	286	1	786036	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	286	287	1	786037	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	287	288	1	786038	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	288	289	1	786039	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Blank				786040	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	289	290	1	786041	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	290	291	1	786042	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	291	292	1	786043	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	292	293	1	786044	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	293	294	1	786045	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	294	294.88	0.88	786046	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	294.88	295.6	0.72	786047	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	295.6	296	0.4	786048	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	296	297	1	786049	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	OREAS 216				786050	6.65	6650
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	297	298	1	786051	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	298	299	1	786052	0.0025	< 5

HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	299	300	1	786053	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	300	301	1	786054	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	301	302	1	786055	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	302	303	1	786056	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	303	304	1	786057	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	304	304.6	0.6	786058	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	304.6	305.2	0.6	786059	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Blank				786060	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	305.2	306	0.8	786061	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	306	306.74	0.74	786062	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	312	312.7	0.7	786063	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	312.7	313	0.3	786064	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	313	313.5	0.5	786065	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	382	382.7	0.7	786066	0.005	5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	382.7	383	0.3	786067	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	383	384	1	786068	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	391	391.45	0.45	786069	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	OREAS 210				786070	5.6	5600
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	391.45	392	0.55	786071	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	392	392.6	0.6	786072	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	392.6	393	0.4	786073	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	393	394	1	786074	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	394	395	1	786075	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	395	396	1	786076	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	396	397.13	1.13	786077	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	397.13	398	0.87	786078	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	435.7	436.15	0.45	786079	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Blank				786080	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	436.15	436.65	0.5	786081	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	436.65	437	0.35	786082	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	443	444	1	786083	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	444	445	1	786084	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	445	446	1	786085	0.006	6
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	446	446.86	0.86	786086	0.0025	< 5
HG-19-29	Hambleton Grid	Actlabs	A19-05485	15-Apr-19	28-Apr-19	Assay	446.86	447.77	0.91	786087	0.0025	< 5

		Hole Number:		HG-19-30					
		Drill Rig:		HC-150-16					
		Claim Number:							
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:			
Surface					Mar-30-2019	2-Apr-2019			
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée				
Easting	643169								
Northing	5410900	Dip:	-75	Dates Logged:	Start Date:	End Date:			
Elevation(m)					Mar-31-2019	3-Apr-2019			
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	573.00	Logger 1:	Andrew Wehrfritz				
Easting				Logger 2:	Jordan Keir-Sage				
Northing		Core Size:	NQ	Logger 3:					
Elevation(m)				Assay Lab:	Actlabs				
Casing									
Purpose of Hole	Drilling VLF targets in the area. Further investigation of 1ALT mineralization intersected in HG-19-29	Dip Tests							
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.		
		21.0	77.1	-74.3	56700		84.7		
Results		51.0	78.8	-73.7	56338		86.4		
		81.0	78.4	-73.7	56215		86		
		111.0	77.2	-73.8	55964		84.8		
		141.0	76.8	-73.6	55648		84.4		
		171.0	74.6	-73.6	55688		82.2		
		201.0	74.4	-73.6	55890		82		
		231.0	72.6	-73.2	55639		80.2		
		261.0	72.3	-72.9	55525		79.9		
		Comments	Andrew Logged up to 500m.	291.0	71.4	-72.8	55784		79
				321.0	70.9	-72.6	55755		78.5
351.0	69.6			-72.3	55829		77.2		
381.0	69.7			-72.2	5570		77.3		
417.0	69.3			-71.9	55787		76.9		
447.0	69.3			-71.4	55666		76.9		
477.0	71.6			-69.4	55608		79.2		
Azimuth corrected to 7.6 degrees west declination		507.0	72.6	-68.1	55678		80.2		
		537.0	71.3	-67.7	55759		78.9		
		570.0	71.5	-67.3	55858		79.1		

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-30	0	5.45	5.45	OVB	Overburden	
HG-19-30	5.45	41	35.55	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Appears gabbroic in some areas. Rubble zone from 12m to 21m and 27 to 30m. Highly fractured unit overall.
HG-19-30	41	56.84	15.84	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Millimetric sized garnets at 42.3m.
HG-19-30	56.84	74.41	17.57	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Unit is border line 1A in areas. Gradation upper contact.
HG-19-30	74.41	83.36	8.95	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-30	83.36	129.85	46.49	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Unit appears as a massive mafic flow in areas. Fracturing from 100 to 100.3m. Fault zone with a high degree of epidote alteration and disseminated sulphides (~1-2% py), and fault gauge. Narrow section of 4B from 121 to 121.26m, and 127.15 to 127.45m.
HG-19-30	129.85	138.74	8.89	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. narrow section of granite from 134 to 134.3m.
HG-19-30	138.74	139.85	1.11	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. <1% disseminated py.
HG-19-30	139.85	161.4	21.55	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Unit appears as a massive mafic flow in areas.
HG-19-30	161.4	179	17.6	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Appears gabbroic in some areas. Increased fracturing from 174 to 177m.
HG-19-30	179	198.2	19.2	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Unit appears as a massive mafic flow in areas.
HG-19-30	198.2	203	4.8	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Appears gabbroic in some areas. Increased fracturing from 199 to 202m (approx. 10 fractures per meter)
HG-19-30	203	203.25	0.25	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. <1% disseminated py.
HG-19-30	203.25	204.2	0.95	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-30	204.2	204.6	0.4	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. ~1-2% disseminated py/po with trace sph and cpy.
HG-19-30	204.6	205.45	0.85	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Appears gabbroic in some areas.
HG-19-30	205.45	205.55	0.1	3D	Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. <1% disseminated py.
HG-19-30	205.55	207.15	1.6	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-30	207.15	207.42	0.27	1MIN	Mineralized Mafic Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Up to 2% banded and disseminated po.
HG-19-30	207.42	208.85	1.43	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.
HG-19-30	208.85	211.83	2.98	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit.
HG-19-30	211.83	214.4	2.57	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a minor to moderate amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures.



HG-19-30	214.4	215.7	1.3	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit.
HG-19-30	215.7	239.34	23.64	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Appears as a massive mafic flow in areas.
HG-19-30	239.34	239.61	0.27	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. ~3% disseminated py/po with trace sph and cpy.
HG-19-30	239.61	255.65	16.04	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Appears as a massive mafic flow in areas.
HG-19-30	255.65	256.65	1	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. ~2% po, ~1% disseminated py, .5% sph stringers and trace cpy.
HG-19-30	256.65	262	5.35	6B	Gabbro	fg to cg, dark grey to dark green mafic unit with a massive texture. Unit is composed predominately of mg to cg mafics with some fg plagioclase interstitially. Minor amounts of calcite/quartz wisps throughout. Appears as a massive mafic flow in areas. Minor amounts of blebby po from 261.7 to 262 associated with some bleaching.
HG-19-30	262	382.9	120.9	1B	Pillowed Flows	fg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals containing thin dark green pillow selvage bands. Thin light green alteration bands composed of chlorite and epidote occur throughout along with occasional biotite banding. Quartz veinlets and veins intermittently throughout the unit. Series of biotite bands from 296 to 296.5m
HG-19-30	382.9	389.55	6.65	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Trace amounts of blebby py in sections.
HG-19-30	389.55	390	0.45	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 2% blebby py.
HG-19-30	390	406.3	16.3	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Appears gabbroic in sections. Narrow sections of ultramafics containing talc alteration and moderate magnetism from 399 to 402; high degree of fracturing in this section as well. Narrow section of blebby py at 401.85m.
HG-19-30	406.3	406.51	0.21	1MIN	Mineralized Mafic Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit. Approximately 4% blebby py.
HG-19-30	406.51	416.06	9.55	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite stringers and wisps intermittently throughout the unit. Dark red and pink bands intersect the unit from 412 to 415m. Trace amounts of blebby py.
HG-19-30	416.06	419.35	3.29	FZ	Fault Zone	Highly fractured unit with a rubbly and vuggy texture. Unit is pink and felsic in composition and in areas contains a banded texture with notable pyrite banding (py banding a 418.4 to 419.35. Appears to be a potasically altered feldspar porphyry and iron formation. Up to 1% banded py overall.
HG-19-30	419.35	421.5	2.15	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-30	421.5	422.1	0.6	3G	Sulphide Facies Iron Formation	fg, light grey to dark grey banded unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 2% blebby py and py stringers.
HG-19-30	422.1	423	0.9	1MIN	Mineralized Mafic Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Up to 1-2% blebby py.
HG-19-30	423	429.5	6.5	1B	Pillowed Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Brown biotite banding from 427 to 428m. Quartz and calcite stringers and wisps intermittently throughout the unit.
HG-19-30	429.5	430.47	0.97	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a high degree amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. intermittent narrow white albite bands.
HG-19-30	430.47	430.93	0.46	1ALT	Altered Mafic Volcanic	fg, dark grey to dark grey mafic unit with a banded texture. Unit is composed predominately of mafic minerals with bands of lighter green chlorite and epidote; lesser amounts of banded biotite. Pale purple felsic bands cross cut the unit in several areas. Approximately 4-5% disseminated and blebby py.
HG-19-30	430.93	434.21	3.28	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite veinlets and veins intermittently throughout the unit.
HG-19-30	434.21	435.05	0.84	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a slight purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts are highly strained. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures and silicification. Up to 1% po and py wisps.
HG-19-30	435.05	439.15	4.1	1A	Massive Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Quartz and calcite wisps and stringers intermittently throughout the unit.


HG-19-30	439.15	493.55	54.4	1B	Pillowed Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding from 471 to 477m. Quartz and calcite stringers and wisps intermittently throughout the unit.
HG-19-30	493.55	495.32	1.77	4B	Feldspar Porphyry	fg to mg, light grey felsic unit with a purple hue. Unit is composed predominately of a fg felsic ground mass with millimetric feldspar phenocrysts suspended throughout. Phenocrysts contain a high degree amount of straining. Minor amounts of biotite interstitially. Light green sericite alteration haloes surrounding occasional healed fractures. Intermittent narrow white albite bands. Minor amounts of silicification. Py stringer at 495. Fine grained disseminated sulphide throughout (up to 1% overall).
HG-19-30	495.32	495.46	0.14	1ALT	Altered Mafic Volcanic	fg to mg dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by thin light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. No notable sulphides
HG-19-30	495.46	504.04	8.58	1B	Pillowed Flows	fg to mg, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding in the first 2 meters of the unit. Quartz and calcite stringers and wisps intermittently throughout the unit.
HG-19-30	504.04	525.9	21.86	1ALT	Altered Mafic Volcanic	fine to medium grained dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by thin light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. Unit contains small Qtz veinlets 2% PY disseminated along alteration, 1% PO disseminated throughout core and Trace CP in some veinlets
HG-19-30	525.9	573	47.1	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit.



BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	138	138.74	0.74	786088	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	138.74	139.85	1.11	786089	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 215				786090	3.52	3520
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	139.85	141	1.15	786091	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	202	203	1	786092	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	203	203.3	0.3	786093	0.006	6
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	203.3	204.2	0.9	786094	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	204.2	204.6	0.4	786095	0.005	5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	204.6	205.55	0.95	786096	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	205.55	206.15	0.6	786097	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	206.15	207.15	1	786098	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	207.15	207.45	0.3	786099	0.044	44
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Blank				786100	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	207.45	208	0.55	786101	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	239	239.34	0.34	786102	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	239.34	239.64	0.3	786103	0.012	12
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	239.64	240	0.36	786104	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	255	255.65	0.65	786105	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay+Geochem	255.65	256.65	1	786106	0.031	31
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	256.65	257.5	0.85	786107	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	389	389.55	0.55	786108	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	389.55	390	0.45	786109	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 216				786110	6.63	6630
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	390	391	1	786111	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	405.3	406.1	0.8	786112	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	406.1	406.51	0.41	786113	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	406.51	407.2	0.69	786114	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	418.05	418.4	0.35	786115	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	418.4	419.35	0.95	786116	0.011	11
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	419.35	420.35	1	786117	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	420.35	420.85	0.5	786118	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	420.85	421.5	0.65	786119	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Blank				786120	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	421.5	422.1	0.6	786121	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	422.1	423	0.9	786122	0.0025	< 5

HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	423	424	1	786123	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	427	428	1	786124	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	428	429	1	786125	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	429	429.5	0.5	786126	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	429.5	430.47	0.97	786127	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	430.47	430.93	0.46	786128	0.006	6
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	430.93	432	1.07	786129	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 210				786130	5.01	5010
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	432	433	1	786131	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	433	434.2	1.2	786132	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	434.2	435.05	0.85	786133	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	492	493	1	786134	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	493	493.55	0.55	786135	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	493.55	494	0.45	786136	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	494	495	1	786137	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	495	495.32	0.32	786138	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	495.32	495.62	0.3	786139	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Blank				786140	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	495.62	496	0.38	786141	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	496	497	1	786142	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	497	498	1	786143	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	502.04	503.04	1	784142	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	503.04	504.04	1	784143	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	504.04	505	0.96	784144	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	505	506	1	784145	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	506	507	1	784146	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	507	508	1	784147	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	508	509	1	784148	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	509	510	1	784149	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 216				784150	6.42	6420
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	510	511	1	784151	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	511	512	1	784152	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	512	513	1	784153	0.006	6
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	513	514	1	784154	0.009	9
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	514	515	1	784155	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	515	516	1	784156	0.0025	< 5

HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	516	517	1	784157	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	517	518	1	784158	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	518	519	1	784159	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 215				784160	3.57	3570
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	519	520	1	784161	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	520	521	1	784162	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	521	522	1	784163	0.006	6
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	522	523	1	784164	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	523	524	1	784165	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	524	525	1	784166	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	525	525.9	0.9	784167	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	525.9	526.9	1	784168	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	Assay	526.9	527.9	1	784169	0.0025	< 5
HG-19-30	Hambleton Grid	Actlabs	A19-05481	15-Apr-19	26-Apr-19	OREAS 215				784170	3.63	3630

		Hole Number:		HG-19-31					
		Drill Rig:		HC-150-16					
		Claim Number:							
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:			
Surface					6-Apr-2019	9-Apr-2019			
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée				
Easting	643175								
Northing	5411100	Dip:	-50	Dates Logged:	Start Date:	End Date:			
Elevation(m)	420				6-Apr-2019	9-Apr-2019			
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	381.00	Logger 1:	Jordan Keir-Sage				
Easting				Logger 2:					
Northing		Core Size:	NQ	Logger 3:					
Elevation(m)				Assay Lab:	Actlabs				
Casing									
Purpose of Hole	Exploration of the Hambleton grid	<b>Dip Tests</b>							
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.		
		18.0	95.2	-50.4	57054		102.8		
Results		51.0	93.8	-49.9	56071		101.4		
		81.0	93.4	-49.5	56044		101		
		111.0	93.0	-49.3	56126		100.6		
		141.0	90.0	-47.1	56346		97.6		
		171.0	89.4	-46.5	55955		97		
		201.0	91.2	-45.3	55986		98.8		
		231.0	87.5	-44.4	55916		95.1		
		261.0	88.1	-43.2	55899		95.7		
		Comments		291.0	86.7	-42.2	55862		94.3
				321.0	85.6	-41.2	55862		93.2
351.0	0.5			-45.4	86250		8.1		
351.0	87.8			-39.8	55688		95.4		
381.0	85.9			-39.1	55656		93.5		
	-7.6								
	-7.6								
Azimuth corrected to 7.6 degrees west declination			-7.6						
			-7.6						
			-7.6						

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-31	0	3	3	CAS	Casing	
HG-19-31	3	16.02	13.02	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. Unit is also blocky with weathering infilling the breaks
HG-19-31	16.02	20.41	4.39	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-31	20.41	37.43	17.02	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. Unit is also blocky with weathering infilling the breaks
HG-19-31	37.43	38.8	1.37	4B	Feldspar Porphyry	Fine to medium grained, grey purple, feldspar porphyry. Composed of mainly felsic groundmass with black interstitial biotite and mm sized feldspar porphyry. Pervasive purple biotite alteration
HG-19-31	38.8	48.75	9.95	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. Unit is also blocky with weathering infilling the breaks
HG-19-31	48.75	52.1	3.35	4B	Feldspar Porphyry	Fine to medium grained, grey purple, feldspar porphyry. Composed of mainly felsic groundmass with black interstitial biotite and mm sized feldspar porphyry. Pervasive purple biotite alteration
HG-19-31	52.1	61.66	9.56	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with minor gouge, suggesting localized faulting (58 m)
HG-19-31	61.66	63	1.34	4B	Feldspar Porphyry	Fine to medium grained, grey purple, feldspar porphyry. Composed of mainly felsic groundmass with black interstitial biotite and mm sized feldspar porphyry. Pervasive purple biotite alteration. Trace PY/PO near contact of a minor mafic unit
HG-19-31	63	69	6	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	69	70.54	1.54	5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification . Last 60cm of unit has strong silicification and carries 3 % PY
HG-19-31	70.54	89.91	19.37	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	89.91	90.69	0.78	1MIN	Mineralized Mafic Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown/purple banded biotite. Wispy qtz stringers. Unit is strongly foliated, but has banded sulfides in unit giving the appearance of iron formation (lack of chert/sediment texture is missing). sulfides are sheets of 5% Py, 2% disseminated PO, and trace disseminated SP
HG-19-31	90.69	107.49	16.8	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers.
HG-19-31	107.49	109.32	1.83	1MIN	Mineralized Mafic Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown/purple banded biotite. Wispy qtz stringers. Unit is strongly foliated, but has banded sulfides in unit giving the appearance of iron formation (lack of chert/sediment texture is missing). sulfides are sheets of 3% Py, 1% disseminated PO,
HG-19-31	109.32	165.22	55.9	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. btw 146-156 approx. there is a moderate amount of netty feldspars in what appears to be a partially healed fault
HG-19-31	165.22	187	21.78	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with minor gouge
HG-19-31	187	187.6	0.6	1MIN	Mineralized Mafic Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown/purple banded biotite. Wispy qtz stringers. Unit is strongly foliated, but has banded sulfides in unit giving the appearance of iron formation (lack of chert/sediment texture is missing). sulfides are sheets of 2% Py,
HG-19-31	187.6	249.78	62.18	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. blocky core at 230, with minor granodiorite intrusions. core is also blocky from 246 to lower contact. minor patchy of ultramafics from 246 to lower contact
HG-19-31	249.78	251.9	2.12	1UT	Ultramafic Talc/Chlorite Altered	very fine grained, black green grey ultra mafics, very fine grain ultramafics minerals have been altered to chlorite with very fine talc filling in the fractures., unit has strong magnetics throughout. Minor seams of pyrite are at lower contact. (10% over 15 cm)
HG-19-31	251.9	265.72	13.82	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with minor gouge


HG-19-31	265.72	268.31	2.59 4B	Feldspar Porphyry	Fine to medium grained, grey purple, feldspar porphyry. Composed of mainly felsic groundmass with black interstitial biotite and mm sized feldspar porphyry. Pervasive purple biotite alteration. Trace PY/PO near contact of a minor mafic unit
HG-19-31	268.31	283.08	14.77 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	283.08	286.11	3.03 1UT	Ultramafic Talc/Chlorite Altered	very fine grained, black green grey ultra mafics, very fine grain ultramafics minerals have been altered to chlorite with very fine talc filling in the fractures, unit has strong magnetics throughout. Minor seams of pyrite are at lower contact. (10% over 15 cm)
HG-19-31	286.11	305.3	19.19 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	305.3	306.45	1.15 4ALT	Altered Feldspar Porphyry	fine grained grey unit with a slight purple hue; high degree of silicification. Fine grained silica based ground mass with highly strained and elongated feldspar phenocrysts. Light green alteration haloes surround some healed fractures. No sulphides visible.
HG-19-31	306.45	310.42	3.97 1ALT	Altered Mafic Volcanic	fine to medium grained dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by thin light green alteration bands composed of chlorite/epidote and a moderate to high degree of thin wavy biotite banding. unit contains small qtz veinlets. no visible sulfides
HG-19-31	310.42	312.82	2.4 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	312.82	315.93	3.11 5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification .
HG-19-31	315.93	317.7	1.77 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	317.7	329.77	12.07 5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification .
HG-19-31	329.77	333.3	3.53 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	333.3	337.98	4.68 5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification .
HG-19-31	337.98	339.78	1.8 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	339.78	345.45	5.67 5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification .
HG-19-31	345.45	355.51	10.06 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote.
HG-19-31	355.51	360.61	5.1 5B	Granodiorite	fine to coarse grained, white pink granodiorite, mainly felsic groundmass with black interstitial biotite. Overall weak kspar alteration/ silicification .
HG-19-31	360.61	381	20.39 1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. thin pillow selvages surrounded by calcite and very weak epidote. minor 5b intrusions



BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	7.93	8.93	1	786144	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	8.93	9.46	0.53	786145	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	9.46	10.46	1	786146	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	68	69	1	786147	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	69	70	1	786148	0.013	13
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	70	70.54	0.54	786149	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	OREAS 215				786150	3.25	3250
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	70.54	71.54	1	786151	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	88.9	89.9	1	786152	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay+Geochem	89.9	90.69	0.79	786153	0.02	20
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	90.69	91.69	1	786154	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	106.49	107.49	1	786155	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay+Geochem	107.49	108.49	1	786156	0.037	37
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay+Geochem	108.49	109.32	0.83	786157	0.016	16
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	109.32	110.32	1	786158	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	164	165	1	786159	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Blank				786160	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	165	165.54	0.54	786161	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	165.54	166.54	1	786162	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	186.19	187.19	1	786163	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	187.19	187.6	0.41	786164	0.014	14
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	187.6	188.6	1	786165	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	250.9	251.9	1	786166	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	251.9	252.26	0.36	786167	0.012	12
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	252.26	253.26	1	786168	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	266.21	267.21	1	786169	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	OREAS 210				786170	5.41	5410
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	267.31	268.31	1	786171	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	268.31	268.63	0.32	786172	0.007	7
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	268.63	269.63	1	786173	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	269.63	270	0.37	786174	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	270	271	1	786175	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	271	271.81	0.81	786176	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	271.81	272.18	0.37	786177	0.01	10
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	272.18	273	0.82	786178	0.0025	< 5

HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	273	274	1	786179	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Blank				786180	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	274	275	1	786181	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	275	275.3	0.3	786182	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	275.3	275.61	0.31	786183	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	275.61	276.61	1	786184	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	284	285	1	786185	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	285	286	1	786186	0.011	11
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	286	287	1	786187	0.01	10
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	304.3	305.3	1	786188	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	305.3	306	0.7	786189	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	OREAS 216				786190	6.4	6400
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	306	306.47	0.47	786191	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	306.47	307.47	1	786192	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	307.47	308.47	1	786193	0.008	8
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	308.47	309.47	1	786194	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	309.47	310.42	0.95	786195	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	310.42	311.42	1	786196	0.006	6
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	318	319	1	786197	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	319	320	1	786198	0.007	7
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	320	321	1	786199	0.008	8
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Blank				786200	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	373	374	1	786202	0.0025	< 5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	374	375	1	786203	0.005	5
HG-19-31	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	375	376	1	786204	0.0025	< 5




		Hole Number:	HG-19-32				
		Drill Rig:	HC-150-19				
		Claim Number:					
Location		Drill Hole Orientation		Dates Drilled:	Start Date:	End Date:	
Surface					2-Apr-2019	6-Apr-2019	
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	50	Drill Contractor:	Forages Chibougamau Ltée		
Easting	644012						
Northing	54100017	Dip:	50	Dates Logged:	Start Date:	End Date:	
Elevation(m)	420				3-Apr-2019	7-Apr-2019	
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	351.00	Logger 1:	Jordan Keir-Sage		
Easting				Logger 2:			
Northing		Core Size:	NQ	Logger 3:			
Elevation(m)				Assay Lab:	Actlabs		
Casing							
Purpose of Hole	Exploration of the Hambleton grid	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		21.0	46.4	-49.5	57037		54
		51.0	46.3	-48.5	56643		53.9
Results	Sample zones of altered mafic units intersected, low sulfide content	81.0	45.8	-48.6	56629		53.4
		111.0	45.5	-48.3	56695		53.1
		141.0	45.6	-48.0	56804		53.2
		171.0	44.8	-47.7	56488		52.4
		201.0	44.5	-47.3	56486		52.1
		231.0	48.4	-46.7	58723		56
Comments		261.0	44.7	-46.4	56658		52.3
		291.0	44.4	-45.9	56611		52
		321.0	44.0	-45.7	56666		51.6
		351.0	44.2	-45.5	56613		51.8
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				
			-7.6				
			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-32	0	6	6	CAS	Casing	
HG-19-32	6	46.95	40.95	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	46.95	48.27	1.32	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. T
HG-19-32	48.27	49.79	1.52	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	49.79	54.22	4.43	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. T
HG-19-32	54.22	64.58	10.36	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	64.58	132.85	68.27	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Broken core from 114-117 with gouge indicating some faulting, minor granitic intrusions near lower contact
HG-19-32	132.85	136.38	3.53	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	136.38	144.24	7.86	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers.
HG-19-32	144.24	146.27	2.03	4B	Feldspar Porphyry	Fine to medium grained, grey purple, feldspar porphyry. Composed of mainly felsic groundmass with black interstitial biotite and mm sized feldspar porphyry. Pervasive purple biotite alteration
HG-19-32	146.27	161.04	14.77	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers.
HG-19-32	161.04	174.14	13.1	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	174.14	177.92	3.78	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers.
HG-19-32	177.92	181.9	3.98	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	181.9	183	1.1	5A	Granite	Coarse grained, pink white granite. Unit is pervasively silicified overprinting the primary structures/grains. Localized pervasive Kspar alteration
HG-19-32	183	201.27	18.27	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers.
HG-19-32	201.27	205.9	4.63	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	205.9	208.6	2.7	1ALT	Altered Mafic Volcanic	fine grained to medium grained dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high amount of thin wavy biotite and sericite banding. No notable sulphides

HG-19-32	208.6	257.89	49.29	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	257.89	259.13	1.24	5A	Granite	Coarse grained, pink white granite. Unit is pervasively silicified overprinting the primary structures/grains. Localized pervasive Kspar alteration
HG-19-32	259.13	261.63	2.5	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	261.63	263.53	1.9	5A	Granite	Coarse grained, pink white granite. Unit is pervasively silicified overprinting the primary structures/grains. Localized pervasive Kspar alteration
HG-19-32	263.53	312.04	48.51	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote. Minor 5A intrusions
HG-19-32	312.04	321.89	9.85	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. T
HG-19-32	321.89	325.5	3.61	1ALT	Altered Mafic Volcanic	fine grained to medium grained dark green, brown and grey mafic unit with a banded texture and high foliation. Mafics accompanied by light green alteration bands composed of chlorite/epidote and a moderate to high amount of thin wavy biotite and sericite banding. Minor gouge at 323, with Kspar alterations. trace PY disseminated in core
HG-19-32	325.5	332.95	7.45	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote
HG-19-32	332.95	342.06	9.11	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. T
HG-19-32	342.06	351	8.94	1B	Pillowed Flows	Fine grained, grey green pillowed mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Thing pillow selvedges surrounded by calcite and very weak epidote

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	100.1	101.1	1	784131	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	101.1	101.48	0.38	784132	0.037	37
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	101.48	102.48	1	784133	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	203.9	204.9	1	784134	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	204.9	205.9	1	784135	0.005	5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	205.9	206.9	1	784136	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	206.9	207.9	1	784137	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	207.9	208.6	0.7	784138	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	208.6	209.6	1	784139	0.005	5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Blank				784140	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	209.6	210.6	1	784141	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	319.89	320.89	1	784171	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	320.89	321.89	1	784172	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	321.89	322.89	1	784173	0.0025	< 5
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	322.89	323.89	1	784174	0.006	6
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	323.89	324.89	1	784175	0.006	6
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	324.89	325.2	0.31	784176	0.006	6
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	325.2	326.2	1	784177	0.006	6
HG-19-32	Hambleton Grid	Actlabs	A19-05961	26-Apr-19	07-May-19	Assay	326.2	327.2	1	784178	0.005	5

		Hole Number:		HG-19-33					
		Drill Rig:		HC-150-16					
		Claim Number:							
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:		
Surface				10-Apr-2019		16-Apr-2019			
<u>Planned Coordinates</u> <u>NAD87 UTM Zone 16N</u>		Azimuth:	90	Drill Contractor:	Forages Chibougamau Ltée				
Easting	643175								
Northing	5411100	Dip:	-75	Dates Logged:	Start Date:	End Date:			
Elevation(m)					10-Apr-2019		16-Apr-2019		
<u>Final Pick up</u> <u>NAD87 UTM Zone 16N</u>		Depth(m):	600.00	Logger 1:	Jordan Keir-Sage				
Easting				Logger 2:	Andrew Wehrfritz				
Northing		Core Size:	NQ	Logger 3:					
Elevation(m)				Assay Lab:	Actlabs				
Casing									
Purpose of Hole	Exploration of the Hambleton grid	Dip Tests							
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.		
		21.0	102.6	-74.2	56118		110.2		
Results	Two sections of alteration zones intersected composed of alternating sections of 1ALT and 4ALT. The first is from 455.62m to 460.47m and contains predominately trace sulphides with up to 3% py/po in one section. The second is from 492.15m to 512.45m containing trace amounts of sulphides.	51.0	101.1	-74.4	56076		108.7		
		81.0	100.1	-74.1	56079		107.7		
		111.0	101.0	-74.1	55821		108.6		
		141.0	99.5	-74.2	55777		107.1		
		171.0	99.6	-74.4	56644		107.2		
		201.0	99.4	-74.2	54842		107		
		237.0	96.9	-74.3	55937		104.5		
		267.0	95.6	-74.1	55726		103.2		
		Comments	Jordan Logged to 455.5m. Andrew started logging 455.5m	297.0	96.3	-73.0	55901		103.9
				327.0	95.6	-72.8	55681		103.2
357.0	97.0			-72.9	56071		104.6		
387.0	93.7			-72.7	55924		101.3		
417.0	98.4			-72.7	55447		106		
447.0	96.2			-72.4	55609		103.8		
477.0	94.5			-72.1	55746		102.1		
Azimuth corrected to 7.6 degrees west declination		507.0	95.3	-71.0	55756		102.9		
		537.0	95.5	-70.9	55863		103.1		
				-7.6					

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
HG-19-33	0	3	3	CAS	Casing	
HG-19-33	3	13.23	10.23	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	13.23	15.2	1.97	3D	Iron Formation	fine grains, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. ~2% blebby py
HG-19-33	15.2	26.65	11.45	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	26.65	30	3.35	6B	Gabbro	fine to coarse grained massive gabbro. moderate to local strong biotite alteration with local weak to moderate chlorite alteration. Small 5B intrusions
HG-19-33	30	79.23	49.23	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. minor 4b intrusions and faulting at 70m and 73
HG-19-33	79.23	82.22	2.99	4B	Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and white feldspar porphyry.
HG-19-33	82.22	88.4	6.18	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. minor 4b intrusions
HG-19-33	88.4	89.9	1.5	4B	Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and white feldspar porphyry.
HG-19-33	89.9	93.22	3.32	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. minor 4b intrusions
HG-19-33	93.22	95.33	2.11	4B	Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and white feldspar porphyry.
HG-19-33	95.33	97	1.67	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. minor 4b intrusions
HG-19-33	97	106.31	9.31	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic. Unit is magnetic and pervasive chlorite altered with some talc in fractures. Fault zone between 98 and 100 m. possible folding of surrounding unit visible at 106 m
HG-19-33	106.31	121.31	15	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	121.31	123.92	2.61	4B	Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and white feldspar porphyries.
HG-19-33	123.92	203.38	79.46	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. Quartz and calcite stringers and wisps intermittently throughout the unit. minor 4b intrusions

HG-19-33	203.38	204.19	0.81	3D	Iron Formation	fine grains, light grey to dark grey banded felsic unit. Unit is composed predominately of alternating felsic and mafic bands. Unit contains approx. 1% disseminated pyrite, and 1 cm vein of SP and PO. Garnets bands along both contacts
HG-19-33	204.19	224.78	20.59	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	224.78	351.5	126.72	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. moderate amount of Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. alteration is stronger then regular pillows. Quartz and calcite stringers and wisps intermittently throughout the unit. Alteration is carrying fracture filling pyrite.
HG-19-33	351.5	356.74	5.24	1MIN	Mineralized Mafic Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. Strong chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. alteration is stronger then regular pillows. Pyrite seams within unit giving a 2 % pyrite total overall
HG-19-33	356.74	369.41	12.67	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	369.41	371.26	1.85	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic. Unit is magnetic and pervasive chlorite altered with some talc in fractures. Upper contact to 370.5 is strongly sericite altered with weak kspar or hematite
HG-19-33	371.26	372.51	1.25	FZ	Fault Zone	broken and gouged ultramafic unit
HG-19-33	372.51	374.43	1.92	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic. Unit is magnetic and pervasive chlorite altered with some talc in fractures. sporadic moderate sericite altered with weak kspar or hematite
HG-19-33	374.43	374.74	0.31	FZ	Fault Zone	broken and gouged ultramafic unit
HG-19-33	374.74	382.44	7.7	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	382.44	385.31	2.87	FZ	Fault Zone	broken and gouged ultramafic unit
HG-19-33	385.31	387	1.69	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic. Unit is magnetic and pervasive chlorite altered with some talc in fractures. sporadic moderate sericite altered with weak kspar or hematite
HG-19-33	387	388.42	1.42	FZ	Fault Zone	broken and gouged ultramafic unit
HG-19-33	388.42	392	3.58	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	392	407.05	15.05	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic. Unit is magnetic and pervasive chlorite altered with some talc in fractures. sporadic moderate sericite altered with weak kspar or hematite
HG-19-33	407.05	407.93	0.88	3G	Sulfide Iron Facies	fine grained, light grey to dark grey banded unit. Unit is composed predominately of alternating cherty and mafic bands. Qtz flooding. Unit contains approx. 2% blebby py and py stringers.
HG-19-33	407.93	425.51	17.58	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	425.51	432.77	7.26	4B	Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and white feldspar porphyries. Unit is moderate silicified with trace disseminated pyrite
HG-19-33	432.77	433.13	0.36	3G	Sulfide Iron Facies	fine grained, light grey to dark grey banded unit. Unit is composed predominately of alternating cherty and mafic bands. Qtz flooding Unit contains approx. 2% blebby py and py stringers. Trace blebby cpy and sp
HG-19-33	433.13	439.35	6.22	1H	Mafic Tuff	fine grained, grey green, mafic tuff, unit weak to no foliation with cm sized feldspar grains. Possibly lapilli noted. Unit is moderately chlorite altered. 1% PY located in fractures.

HG-19-33	439.35	439.8	0.45	3G	Sulfide Iron Facies	fine grained, light grey to dark grey banded unit. Unit is composed predominately of alternating cherty and mafic bands. Qtz flooding Unit contains approx. 2% blebby py and py stringers.
HG-19-33	439.8	447.12	7.32	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	447.12	447.74	0.62	3G	Sulfide Iron Facies	fine grained, light grey to dark grey banded unit. Unit is composed predominately of alternating cherty and mafic bands. Qtz flooding Unit contains approx. 2% blebby py and py stringers.
HG-19-33	447.74	455.62	7.88	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. Mafic minerals are predominate surrounding feldspars. Pervasive chlorite alteration, with interstitial black biotite. Some brown banded biotite. Wispy qtz stringers. Unit is also blocky with weathering infilling the breaks
HG-19-33	455.62	457.58	1.96	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout. Trace po and py associated with occasional quartz stringers.
HG-19-33	457.58	458.5	0.92	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar porphyries. Unit is silicified with trace disseminated pyrite and frequent light green alteration bands. Some narrow sections of mafics.
HG-19-33	458.5	460.47	1.97	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout. Moderate to high degree of quartz flooding and stringers associated with 2-3% blebs and stringers of po and py. Trace cpy at 459.5m.
HG-19-33	460.47	464.27	3.8	1A	Massive Flows	Fine to medium grained, grey green massive mafic flow. unit is composed predominately of Mafic minerals with lesser amounts of interstitial feldspars. Pervasive chlorite alteration, with some interstitial brown biotite. Some brown banded biotite. Wispy qtz stringers. Quartz vein from 461.33 to 463.43 followed by several Smokey quartz veinlets.
HG-19-33	464.27	465.9	1.63	1UT	Ultramafic Talc/Chlorite Altered	Very fine grained, black green ultra mafic with a massive texture.. Unit is magnetic with pervasive talc and chlorite alteration.
HG-19-33	465.9	492.15	26.25	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. moderate amount of Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding throughout unit. alteration is stronger then regular pillows at 467-468. Quartz and calcite stringers and wisps intermittently throughout the unit.
HG-19-33	492.15	496.9	4.75	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout. Unit appear massive in texture in areas; banded texture increases with depth. Quartz veinlet running almost perpendicular to core axis from 494.8 to 495.3 (approximately 2-4cm wide). Veinlet contains trace po.
HG-19-33	496.9	498.42	1.52	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified with frequent light green alteration bands and healed fracture halos. Smokey quartz stringers and wisps throughout the unit as well as some narrow sections of mafics. Trace sulphides (py and po).
HG-19-33	498.42	498.72	0.3	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout.
HG-19-33	498.72	499.78	1.06	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified with frequent light green alteration bands and healed fracture halos. Smokey quartz stringers and wisps throughout the unit as well as some narrow sections of mafics. Trace sulphides (py and po).
HG-19-33	499.78	500.7	0.92	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout.



HG-19-33	500.7	501.4	0.7	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified with frequent light green alteration bands and healed fracture halos. Smokey quartz stringers and wisps throughout the unit as well as some narrow sections of mafics. Trace sulphides (py and po).
HG-19-33	501.4	505.05	3.65	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout. Smokey quartz stringers and wisps throughout the unit associated with po. Up to 1% blebby po. Narrow sections of purple 4ALT in several sections.
HG-19-33	505.05	506.33	1.28	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified with frequent light green sericite alteration bands and healed fracture halos. Smokey quartz stringers and wisps throughout the unit as well as some narrow sections of mafics.
HG-19-33	506.33	512.45	6.12	1ALT	Altered Mafic Volcanic	fine to medium grained, dark green to dark grey mafic unit with a brown banded texture. Unit is composed predominately of mafic minerals with thin brown and light green alteration banding throughout. Banded texture and banded biotite alteration decreases in intensity with depth. Narrow section of 4B from 510.41 to 510.67m.
HG-19-33	512.45	517.38	4.93	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. moderate amount of light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding intermittently; specifically from 515.5 to 516. Wispy quartz and calcite stringers intermittently throughout the unit.
HG-19-33	517.38	517.6	0.22	4ALT	Altered Feldspar Porphyry	Fine grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified. One Smokey quartz stringer.
HG-19-33	517.6	520.13	2.53	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. moderate amount of Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding intermittently. Wispy quartz and calcite stringers intermittently throughout the unit.
HG-19-33	520.13	521	0.87	4ALT	Altered Feldspar Porphyry	Fine to medium grained, grey purple sheared feldspar porphyry. Felsic groundmass with pervasive purple biotite, and highly strained and elongated feldspar phenocrysts. Unit is silicified with frequent light green/grey sericite alteration bands and healed fracture halos. Three Smokey quartz stringers.
HG-19-33	521	546	25	1B	Pillowed Flows	fine to medium grained, dark green to dark grey mafic unit with minor to moderate amounts of foliation. Unit is composed predominately of mafic minerals with lesser amounts of interstitial plagioclase as well as minor amounts of disseminated biotite. moderate amount of Light green alteration bands composed of chlorite and epidote intermittently throughout. Some brown biotite banding intermittently. Wispy quartz and calcite stringers intermittently throughout the unit.
HG-19-33	546	546	0		EOH	

BHID	AREA	LAB	COA NUMBER	DATE SHIPPED	DATE RECEIVED	SAMPLE_TYPE	FROM_M	TO_M	LENGTH_M	SAMPLE_NUMBER	Au Final	Au PPB
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	12.33	13.33	1	786205	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	13.33	14.33	1	786206	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	14.33	15.2	0.87	786207	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	15.2	16.2	1	786208	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	202.38	203.38	1	786209	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 210				786210	5.36	5360
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay+Geochem	203.38	204.19	0.81	786211	0.04	40
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	204.19	205.19	1	786212	0.006	6
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	239	240	1	786213	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	240	241	1	786214	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	241	242	1	786215	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	242	243	1	786216	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	243	244	1	786217	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	244	245	1	786218	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	245	246	1	786219	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank				786220	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	246	247	1	786221	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	247	248	1	786222	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	248	249	1	786223	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	350.5	351.5	1	786224	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	351.5	352.5	1	786225	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	352.5	353.5	1	786226	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	353.5	354.5	1	786227	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	354.5	355	0.5	786228	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	355	355.74	0.74	786229	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 216				786230	6.6	6600
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	355.74	356.74	1	786231	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	424.51	425.51	1	786232	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	425.51	426	0.49	786233	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	426	427	1	786234	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	427	428	1	786235	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	428	428.89	0.89	786236	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	428.89	429.19	0.3	786237	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	429.19	430	0.81	786238	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	430	431	1	786239	0.006	6

HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank					786240	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	431	432	1		786241	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	432	432.77	0.77		786242	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay+Geochem	432.77	433.13	0.36		786243	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	433.13	434	0.87		786244	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	434	435	1		786245	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	435	436	1		786246	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	436	437	1		786247	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	437	438	1		786248	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	438	439	1		786249	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 215					786250	3.46	3460
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	439	439.35	0.35		786251	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	439.35	439.8	0.45		786252	0.008	8
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	439.8	440.8	1		786253	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	440.8	441.8	1		786254	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	441.8	442.8	1		786255	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	442.8	443.8	1		786256	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	443.8	444.8	1		786257	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	444.8	445.8	1		786258	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	445.8	446.8	1		786259	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank					786260	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	446.8	447.12	0.32		786261	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	447.12	447.74	0.62		786262	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	447.74	448.74	1		786263	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	406.06	407.06	1		786264	0.022	22
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	407.06	407.92	0.86		786265	0.006	6
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	407.92	408.92	1		786266	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	454	455	1		786267	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	455	455.62	0.62		786268	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	455.62	456	0.38		786269	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 210					786270	5.36	5360
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	456	457	1		786271	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	457	457.58	0.58		786272	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	457.58	458.5	0.92		786273	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	458.5	459	0.5		786274	0.006	6
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	459	460	1		786275	0.008	8











HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	460	460.47	0.47	786276	0.005	5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	460.47	461	0.53	786277	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	461	462	1	786278	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	462	463	1	786279	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank				786280	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	463	463.5	0.5	786281	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	463.5	464.27	0.77	786282	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	464.27	465	0.73	786283	0.016	16
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	465	465.9	0.9	786284	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	465.9	467	1.1	786285	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	467	468	1	786286	0.006	6
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	468	469	1	786287	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	469	470	1	786288	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	470	471	1	786289	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 216				786290	6.52	6520
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	489	490	1	786291	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	490	491	1	786292	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	491	492.15	1.15	786293	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	492.15	493	0.85	786294	0.005	5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	493	494	1	786295	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	494	494.8	0.8	786296	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	494.8	495.3	0.5	786297	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	495.3	496	0.7	786298	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	496	496.9	0.9	786299	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank				786300	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	496.9	498	1.1	786301	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	498	498.42	0.42	786302	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	498.42	498.72	0.3	786303	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	498.72	499.78	1.06	786304	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	499.78	500.7	0.92	786305	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	500.7	501.4	0.7	786306	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	501.4	502	0.6	786307	0.009	9
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	502	503	1	786308	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	503	504	1	786309	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 210				786310	5.12	5120
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	504	505.05	1.05	786311	0.0025	< 5

HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	505.05	505.7	0.65	786312	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	505.7	506.33	0.63	786313	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	507	508	1	786314	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	508	509	1	786315	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	509	510	1	786316	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	510	511	1	786317	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	511	512	1	786318	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	512	512.45	0.45	786319	0.005	5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Blank				786320	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	512.45	513	0.55	786321	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	513	514	1	786322	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	514	515	1	786323	0.006	6
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	515	516	1	786324	0.025	25
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	516	517	1	786325	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	517	517.38	0.38	786326	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	517.38	518	0.62	786327	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	518	519	1	786328	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	519	520.13	1.13	786329	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	OREAS 215				786330	3.53	3530
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	520.13	520.5	0.37	786331	0.066	66
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	520.5	521.03	0.53	786332	0.011	11
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	521.03	522	0.97	786333	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	522	523	1	786334	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	523	523.5	0.5	786335	0.0025	< 5
HG-19-33	Hambleton Grid	Actlabs	A19-05891	26-Apr-19	07-May-19	Assay	506.33	507	0.67	786336	0.0025	< 5











**Appendix C – Hambleton Grid 2018 & 2019 Drill Hole Cross Sections**

## GEOLOGICAL LEGEND











### Mafic Intrusives









-  7A-Diabase
-  7B-Diorite
-  7C-Lamprophyre
-  6A-Diorite
-  6B-Gabbro
-  6C-Amphibolite
-  6D-Peridotite
-  6G-Pyroxenite
-  6E-Intermediate Dyke
-  6F-Mafic Dyke










### Felsic Intrusives

-  5A-Granite
-  5B-Granodiorite
-  5D-Syenite
-  4A-Quartz Porphyry
-  4B-Feldspar Porphyry
-  4C-Quartz-Feldspar Porphyry
-  4D-Felsite
-  4E-Pegmatite
-  4F-Felsic Dyke
-  4ALT-Altered Feldspar Porphyry

### Sediments

-  3A-Greywacke
-  3ALT-Altered Iron Formation w/sulphides
-  3B-Argillite
-  3D-Iron Formation
-  3E-Ferruginous Chert
-  3F-Chert
-  3G-Sulfide Facies Iron Formation
-  3H-Reworked Tuffs
-  3I-Arenite
-  3S-Siltstone

-  OVB-Overburden
-  CAS-Casing
-  BX-Breccia
-  FLT-Fault
-  Frac-Z-Fracture Zone
-  FZ-Fault Zone
-  SH-Shear
-  SZ-Shear Zone

-  UZ-Upper Zone
-  MZ-Middle Zone
-  LZ-Lower Zone
-  QCV-Quartz-Carbonate Vein
-  QTCSW-Quartz-Carbonate Stockwork
-  QTSW-Quartz Stockwork
-  QV-Quartz Vein
-  QZ-Quartz Zone
-  QZ-STR-Quartz Stringer












### Intermediate Volcanics

-  2E-Intermediate Tuff

### Felsic Volcanics

-  2A-Felsic Massive Flows
-  2B-Felsic Tuff
-  2S-Sericite Schist




### Mafic Volcanics

-  1A-Massive Mafic Flows
-  1B-Pillowed Mafic Flows
-  1C-Agglomerate
-  1D-Variolitic Flows
-  1E-Amygdaloidal/Vesicular Flows
-  1F-Flow-top Breccia
-  1G-Amphibolitic Flows
-  1H-Mafic Tuff
-  1I-Volcaniclastic
-  1ALT-Altered Mafic Volcanic
-  1N-Hydrothermally Altered Basalt








### Early Mafic Intrusive

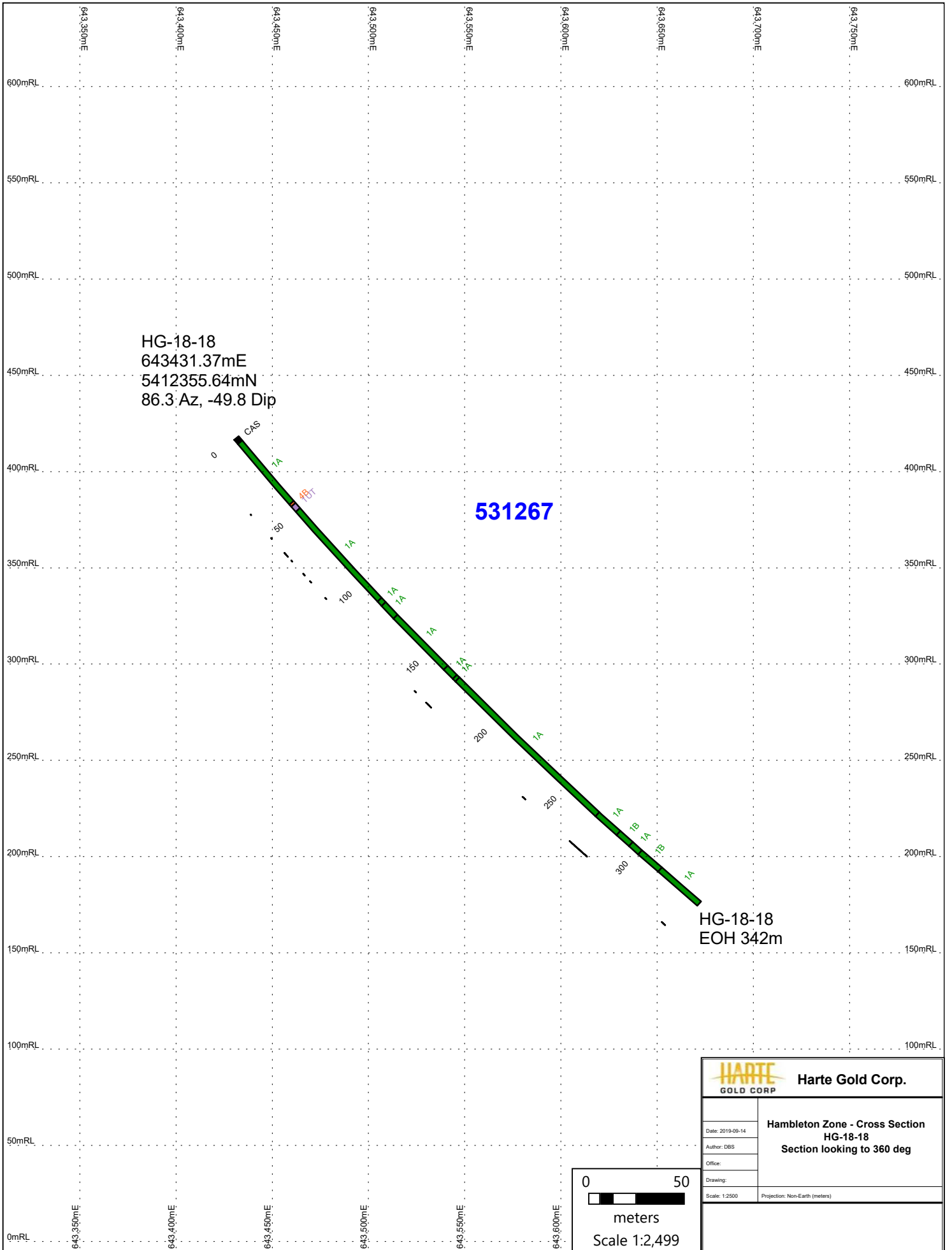
-  1Z-Gabbroic with gradational contacts

### Ultramafic Volcanics

-  UM-Ultramafic
-  1U-Ultramafic Flows
-  1UT-Ultramafic Talc/Chlorite Altered

### Assay Color Legend


-  0 - 0.5
-  0.6 - 1
-  1.1 - 3
-  3.1 - 5
-  5.1 - 8
-  8.1 - 12
-  12.1 - 659

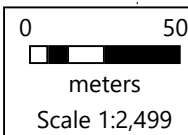


HG-18-18  
 643431.37mE  
 5412355.64mN  
 86.3 Az, -49.8 Dip

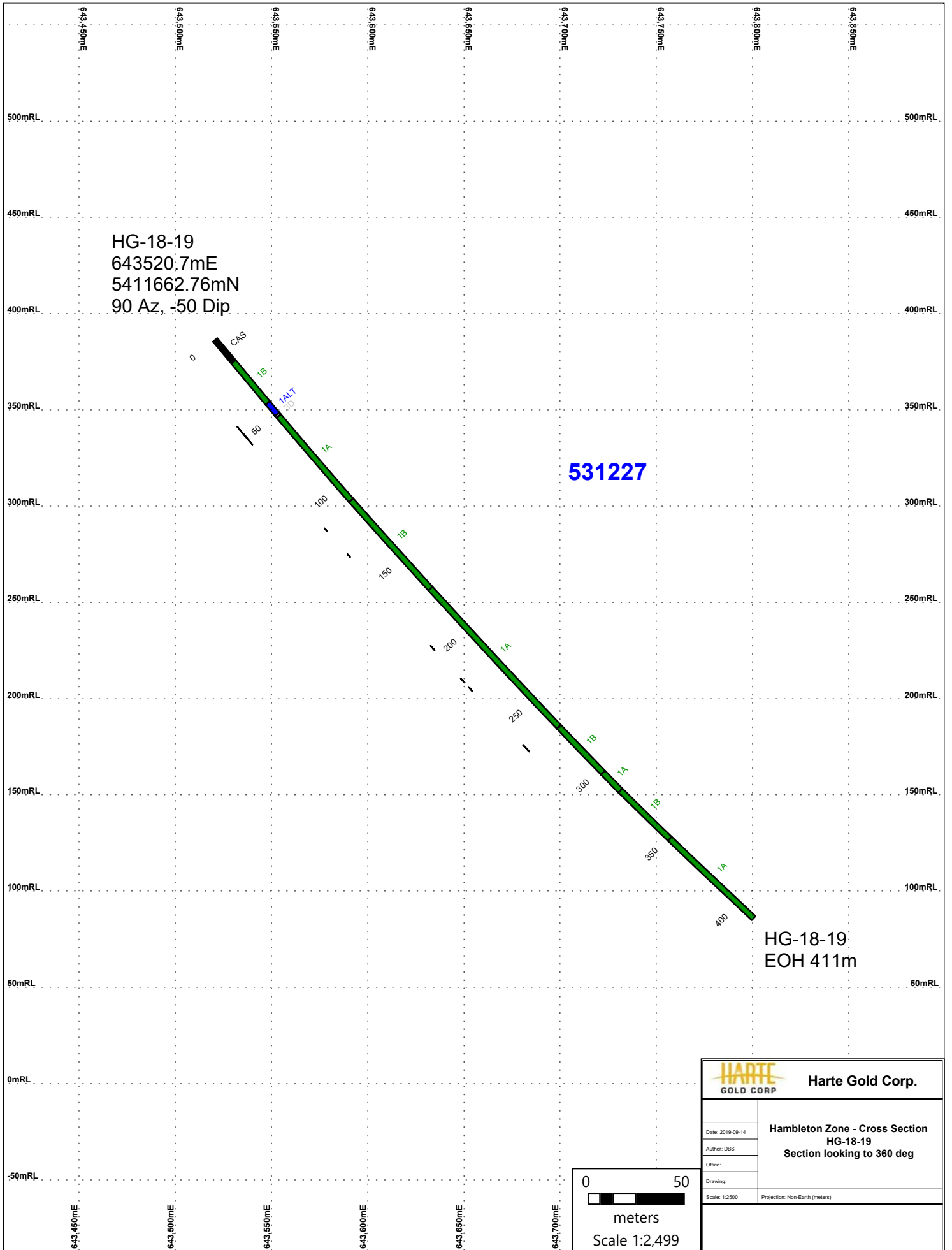
531267

HG-18-18  
 EOH 342m

 <b>Harte Gold Corp.</b>	
<b>Hambleton Zone - Cross Section          HG-18-18          Section looking to 360 deg</b>	
Date: 2019-09-14	
Author: DBS	
Office:	
Drawing:	
Scale: 1:2500	Projection: Non-Earth (meters)





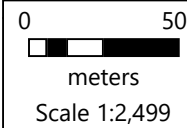


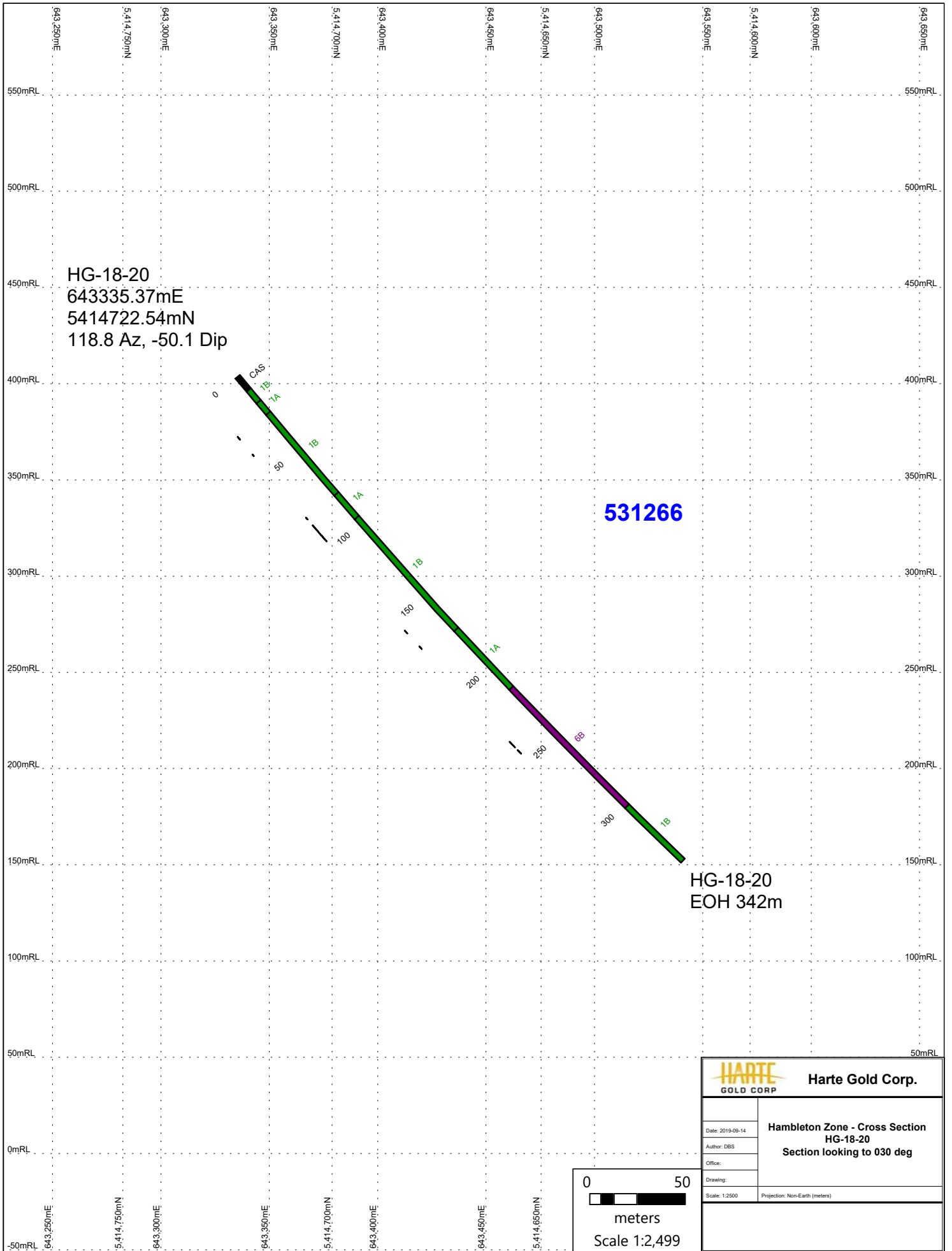
HG-18-19  
 643520.7mE  
 5411662.76mN  
 90 Az, -50 Dip

531227

HG-18-19  
 EOH 411m

<b>HARTE</b> GOLD CORP		<b>Harte Gold Corp.</b>	
Date: 2019-09-14		<b>Hambleton Zone - Cross Section HG-18-19 Section looking to 360 deg</b>	
Author: DBS			
Office:			
Drawing:		Projection: Non-Earth (meters)	
Scale: 1:2500			




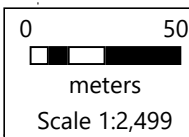


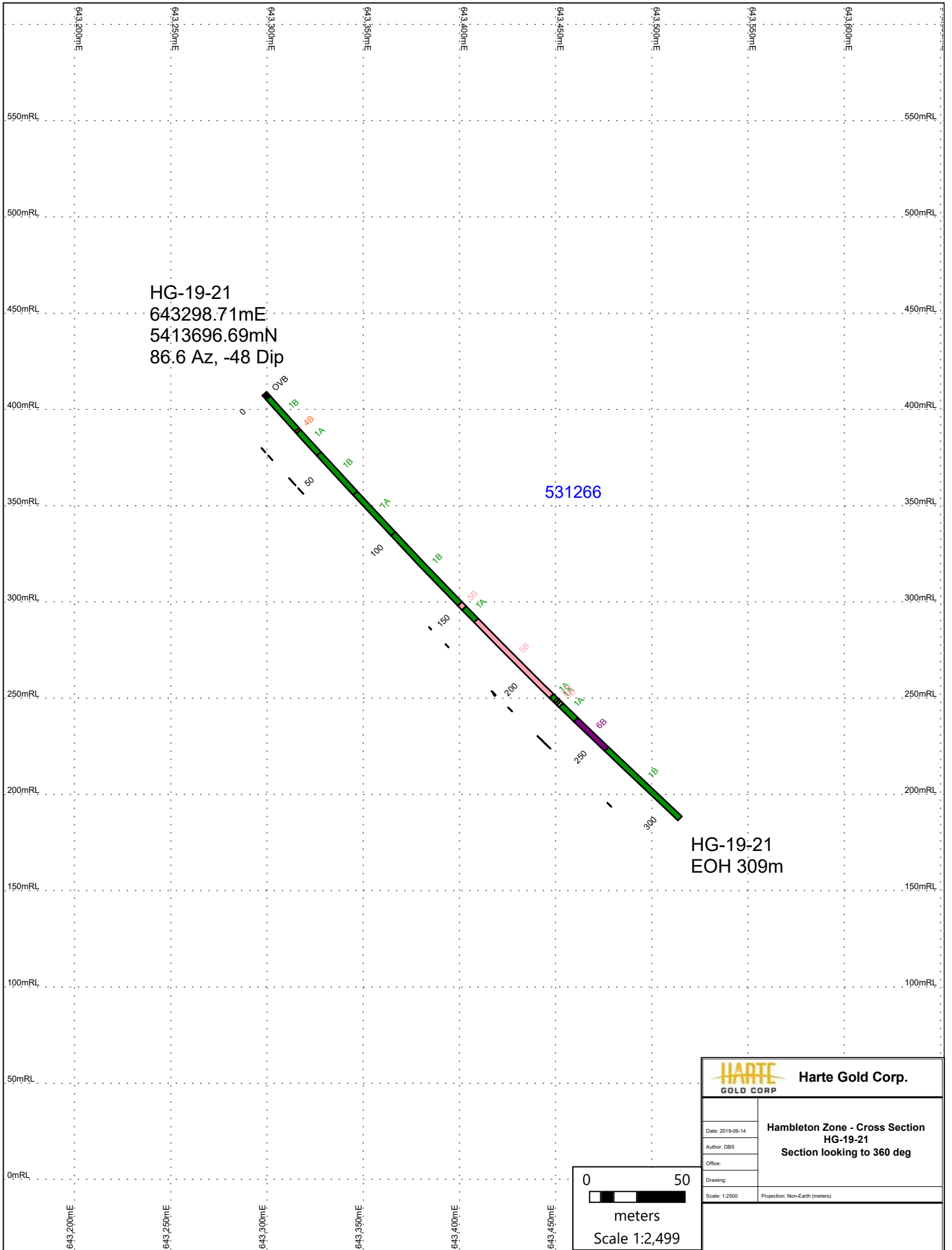
HG-18-20  
 643335.37mE  
 5414722.54mN  
 118.8 Az, -50.1 Dip

531266

HG-18-20  
 EOH 342m

 <b>Harte Gold Corp.</b>	
Date: 2019-09-14 Author: DBS Office: Drawing:	<b>Hambleton Zone - Cross Section          HG-18-20          Section looking to 030 deg</b>
Scale: 1:2500 Projection: Non-Earth (meters)	




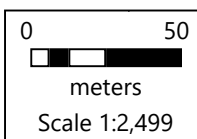


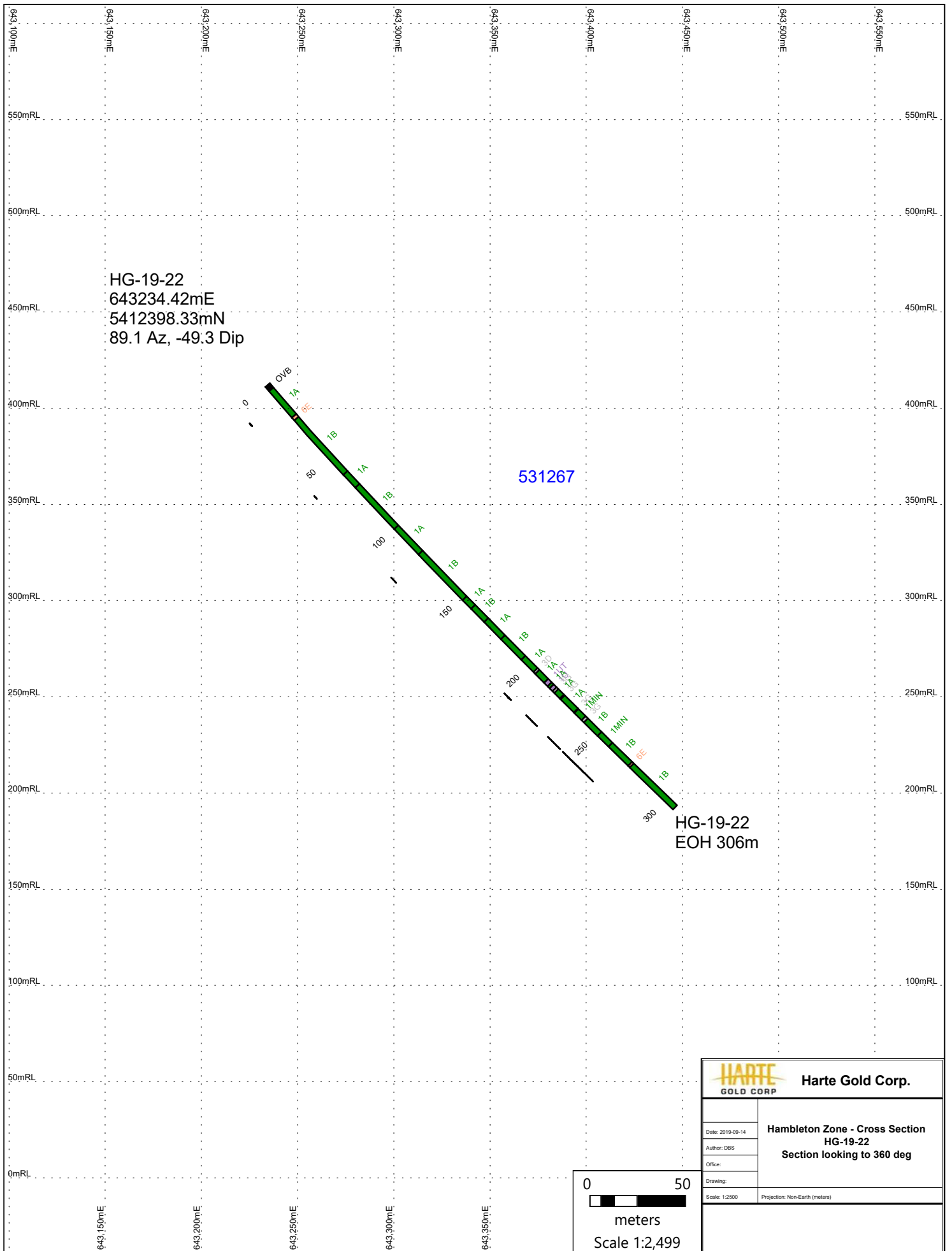
HG-19-21  
 643298.71mE  
 5413696.69mN  
 86.6 Az, -48 Dip

531266

HG-19-21  
 EOH 309m

 <b>Harte Gold Corp.</b>	
Date: 2019-09-14 Author: DBS Office: Drawing:	<b>Hambleton Zone - Cross Section          HG-19-21          Section looking to 360 deg</b>
Scale: 1:2500 Projection: Non-Earth (meters)	

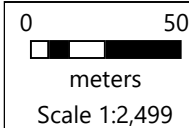





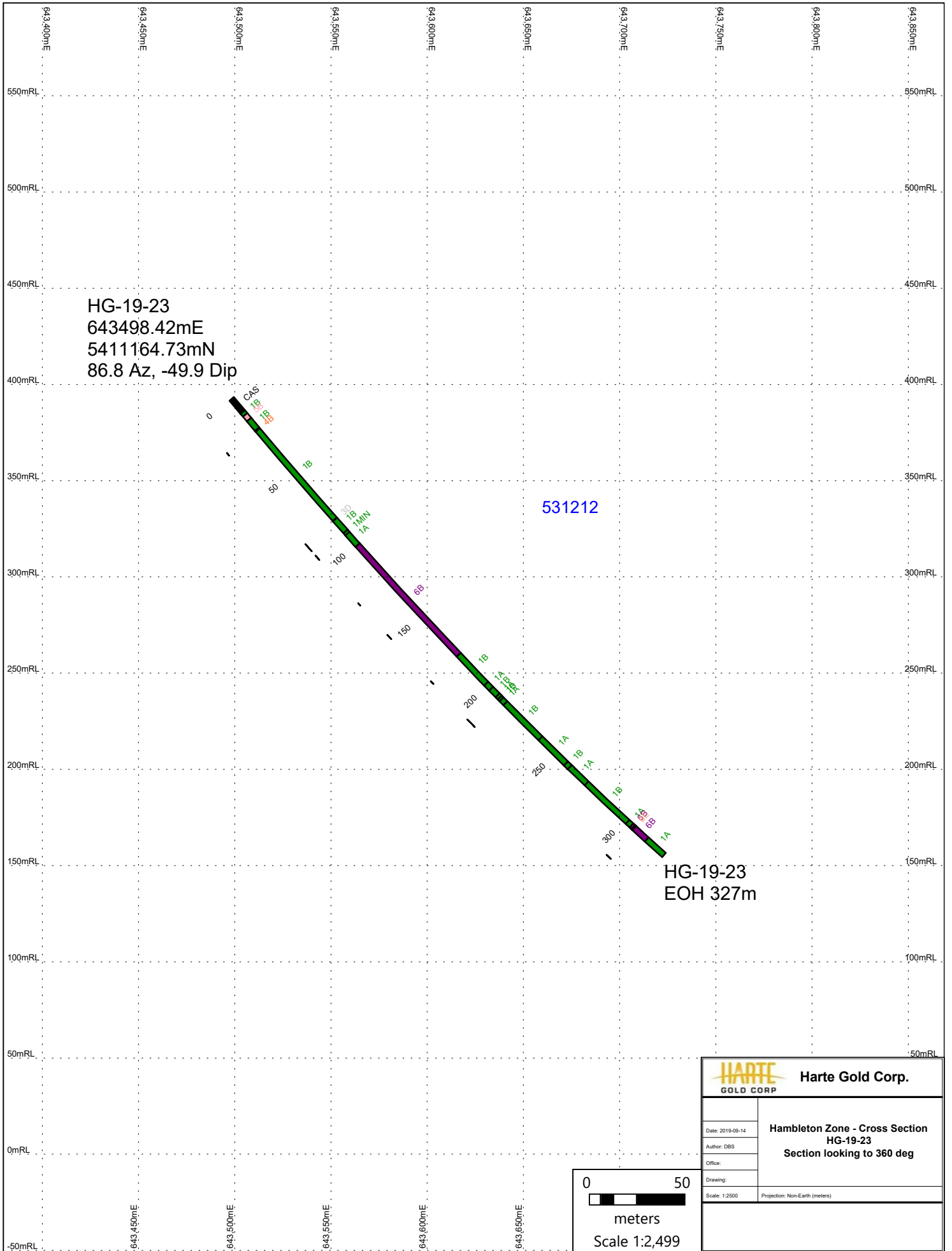
HG-19-22  
 643234.42mE  
 5412398.33mN  
 89.1 Az, -49.3 Dip


531267

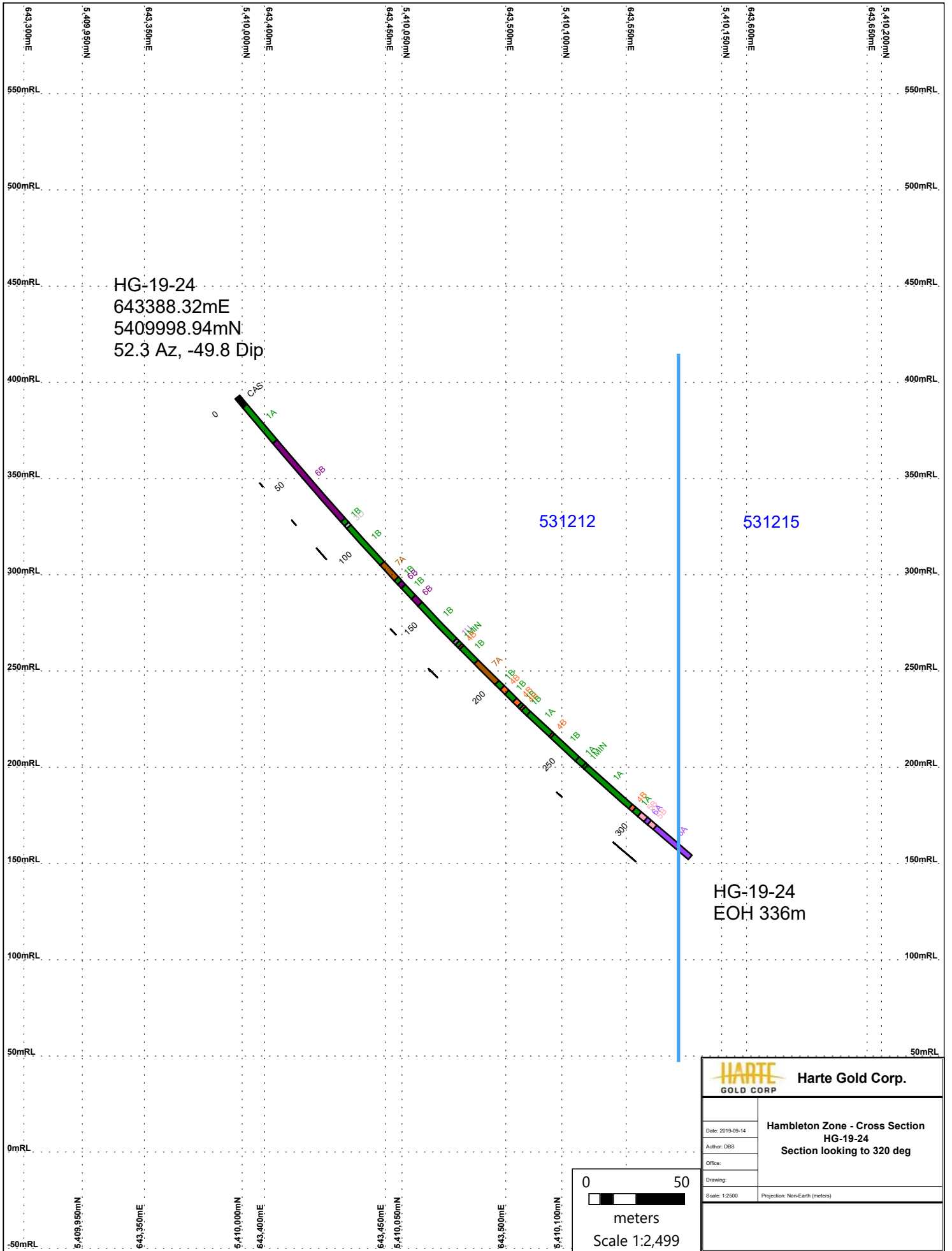
HG-19-22  
 EOH 306m



 <b>Harte Gold Corp.</b>	
<b>Hambleton Zone - Cross Section</b> <b>HG-19-22</b> <b>Section looking to 360 deg</b>	
Date: 2019-09-14	
Author: DBS	
Office:	
Drawing:	
Scale: 1:2500	Projection: Non-Earth (meters)



 <b>Harte Gold Corp.</b>	
Date: 2019-09-14 Author: DBS Office: Drawing:	<b>Hambleton Zone - Cross Section</b> <b>HG-19-23</b> <b>Section looking to 360 deg</b>
Scale: 1:2500	Projection: Non-Earth (meters)



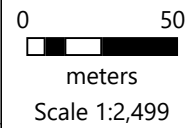
HG-19-24  
 643388.32mE  
 5409998.94mN  
 52.3 Az, -49.8 Dip

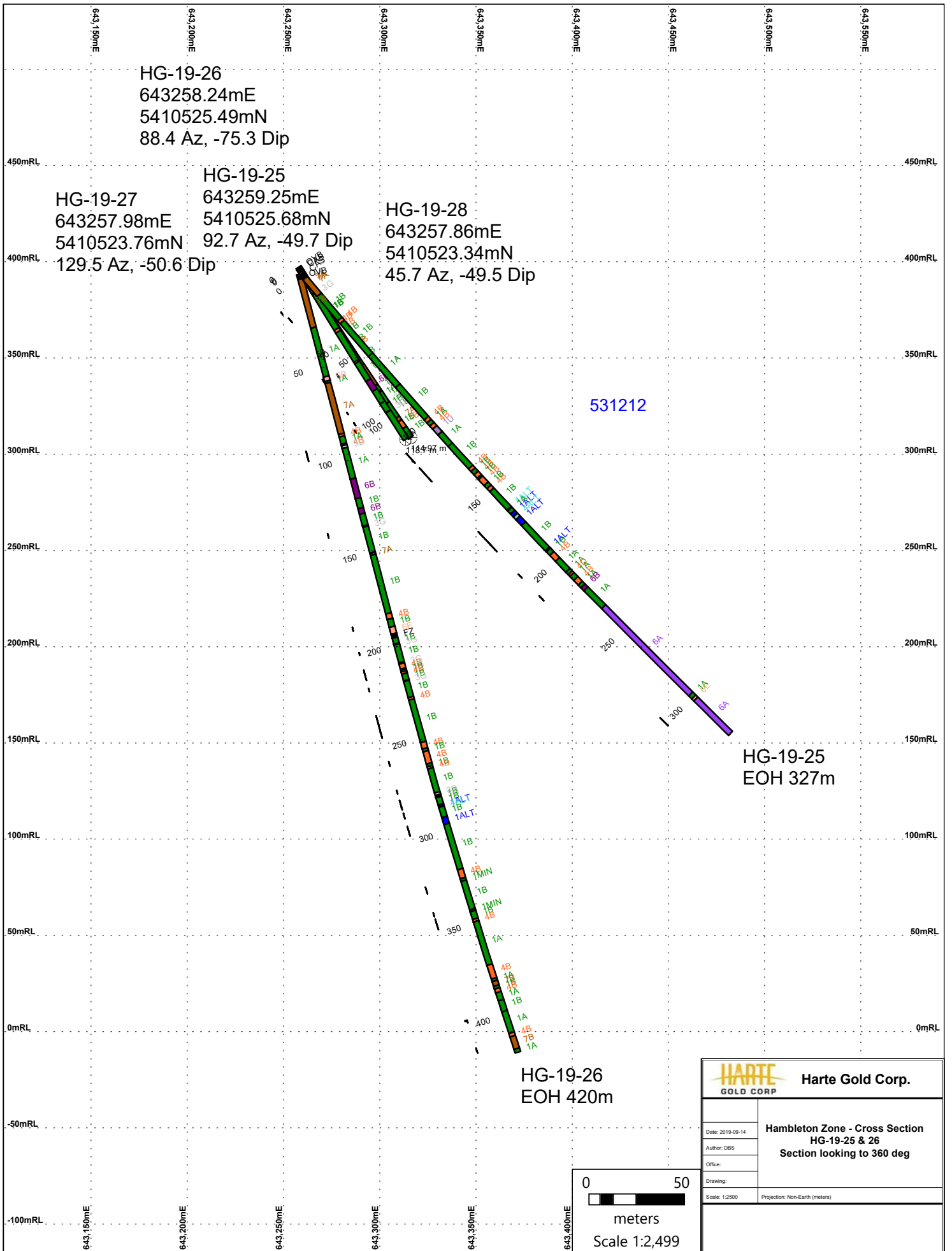
531212

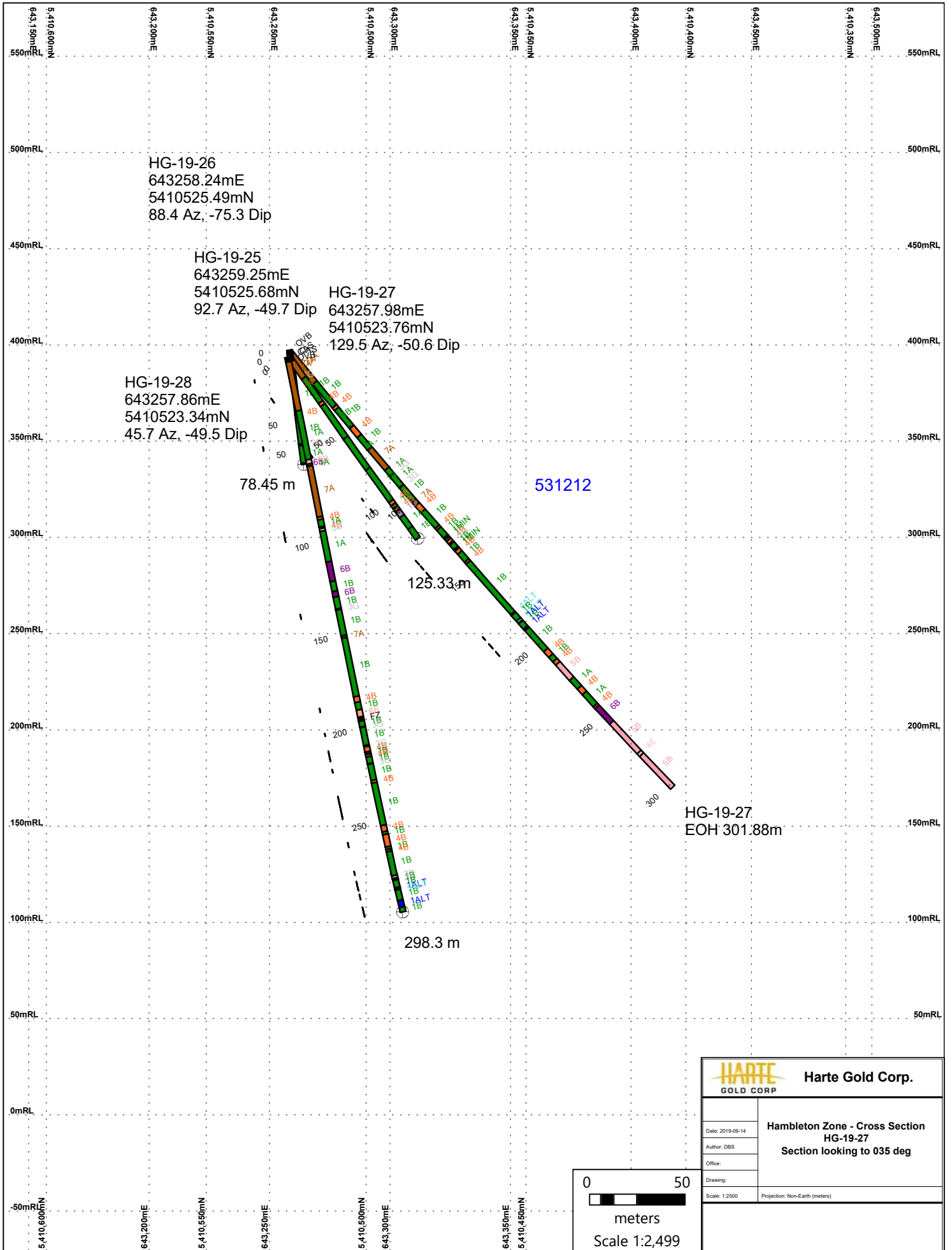
531215


HG-19-24  
 EOH 336m

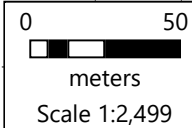
<b>HARTE GOLD CORP.</b>	
<b>Harte Gold Corp.</b>	
Date: 2019-09-14	<b>Hambleton Zone - Cross Section HG-19-24 Section looking to 320 deg</b>
Author: DBS	
Office:	
Drawing:	
Scale: 1:2500	Projection: Non-Earth (meters)



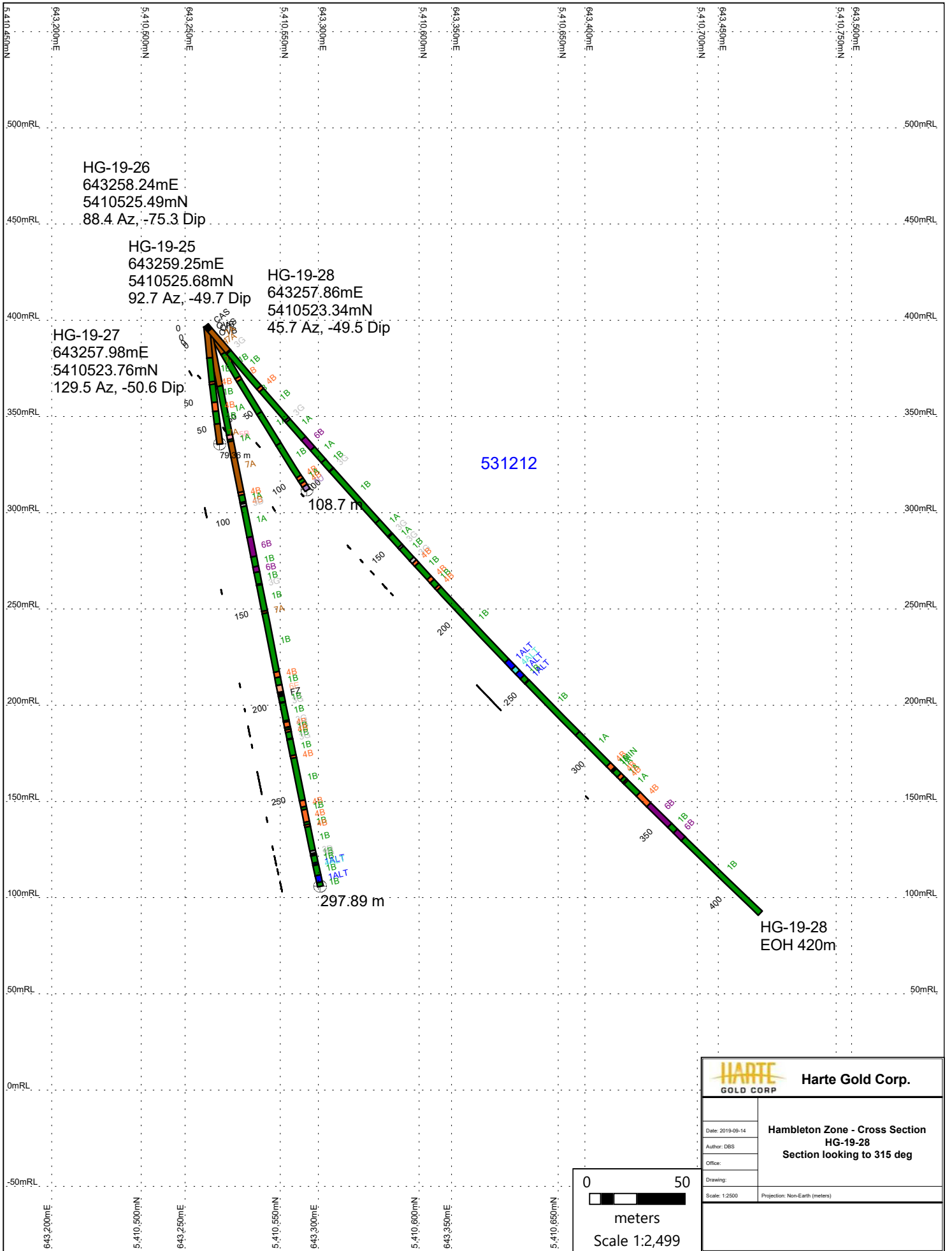




 <b>Harte Gold Corp.</b>	
Date: 2019-09-14	<b>Hambleton Zone - Cross Section          HG-19-27          Section looking to 035 deg</b>
Author: DBS	
Office:	
Drawing:	Projection: Non-Earth (meters)
Scale: 1:2500	







HG-19-26  
 643258.24mE  
 5410525.49mN  
 88.4 Az, -75.3 Dip

HG-19-25  
 643259.25mE  
 5410525.68mN  
 92.7 Az, -49.7 Dip

HG-19-28  
 643257.86mE  
 5410523.34mN  
 45.7 Az, -49.5 Dip

HG-19-27  
 643257.98mE  
 5410523.76mN  
 129.5 Az, -50.6 Dip

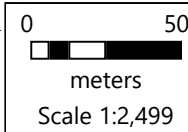
531212

297.89 m

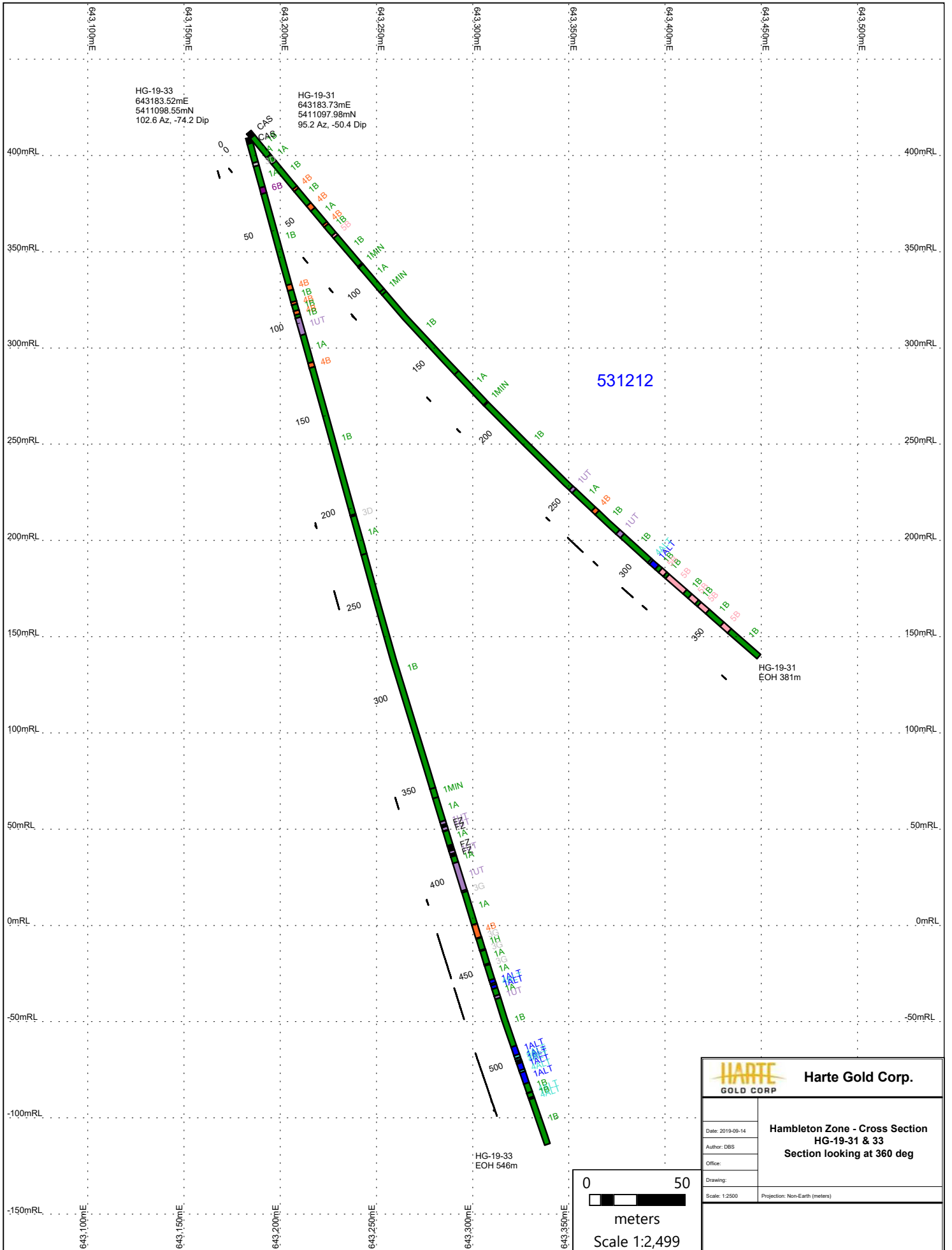
108.7 m

HG-19-28  
 EOH 420m

<b>HARTE</b> GOLD CORP.		<b>Harte Gold Corp.</b>	
Date: 2019-09-14	<b>Hambleton Zone - Cross Section HG-19-28 Section looking to 315 deg</b>		
Author: DGS			
Office:			
Drawing:			
Scale: 1:2500	Projection: Non-Earth (meters)		








HG-19-33  
643183.52mE  
5411098.55mN  
102.6 Az, -74.2 Dip

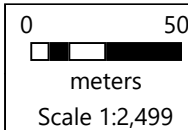
HG-19-31  
643183.73mE  
5411097.98mN  
95.2 Az, -50.4 Dip

531212

HG-19-31  
EOH 381m

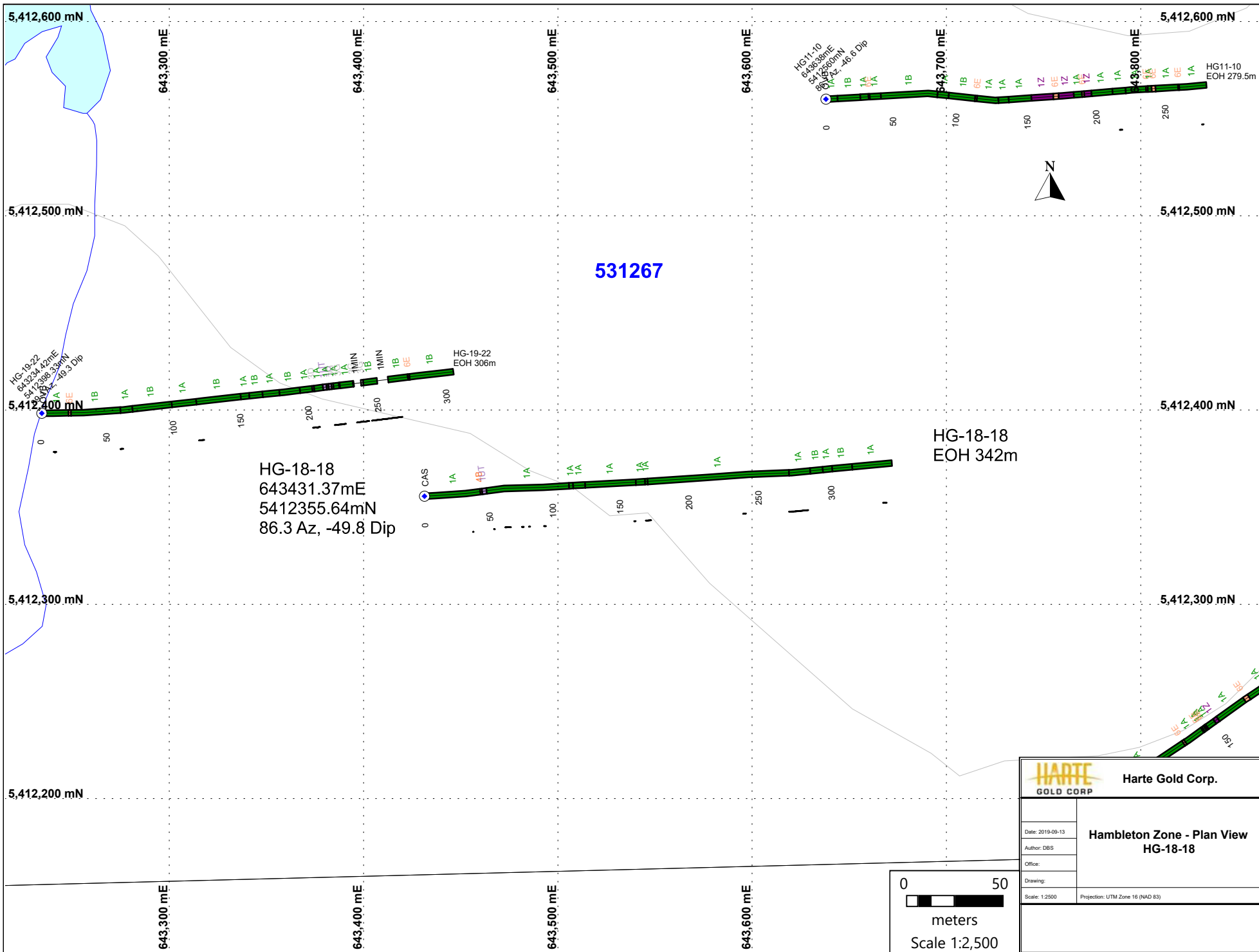
HG-19-33  
EOH 546m

 <b>Harte Gold Corp.</b>	
<b>Hambleton Zone - Cross Section HG-19-31 &amp; 33 Section looking at 360 deg</b>	
Date: 2019-09-14	
Author: DBS	
Office:	
Drawing:	
Scale: 1:2500	Projection: Non-Earth (meters)





**Appendix D – Hambleton Grid 2018 & 2019 Drill Hole Plans**



HG-18-18  
 643431.37mE  
 5412355.64mN  
 86.3 Az, -49.8 Dip

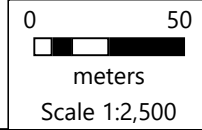
HG-19-22  
 EOH 306m

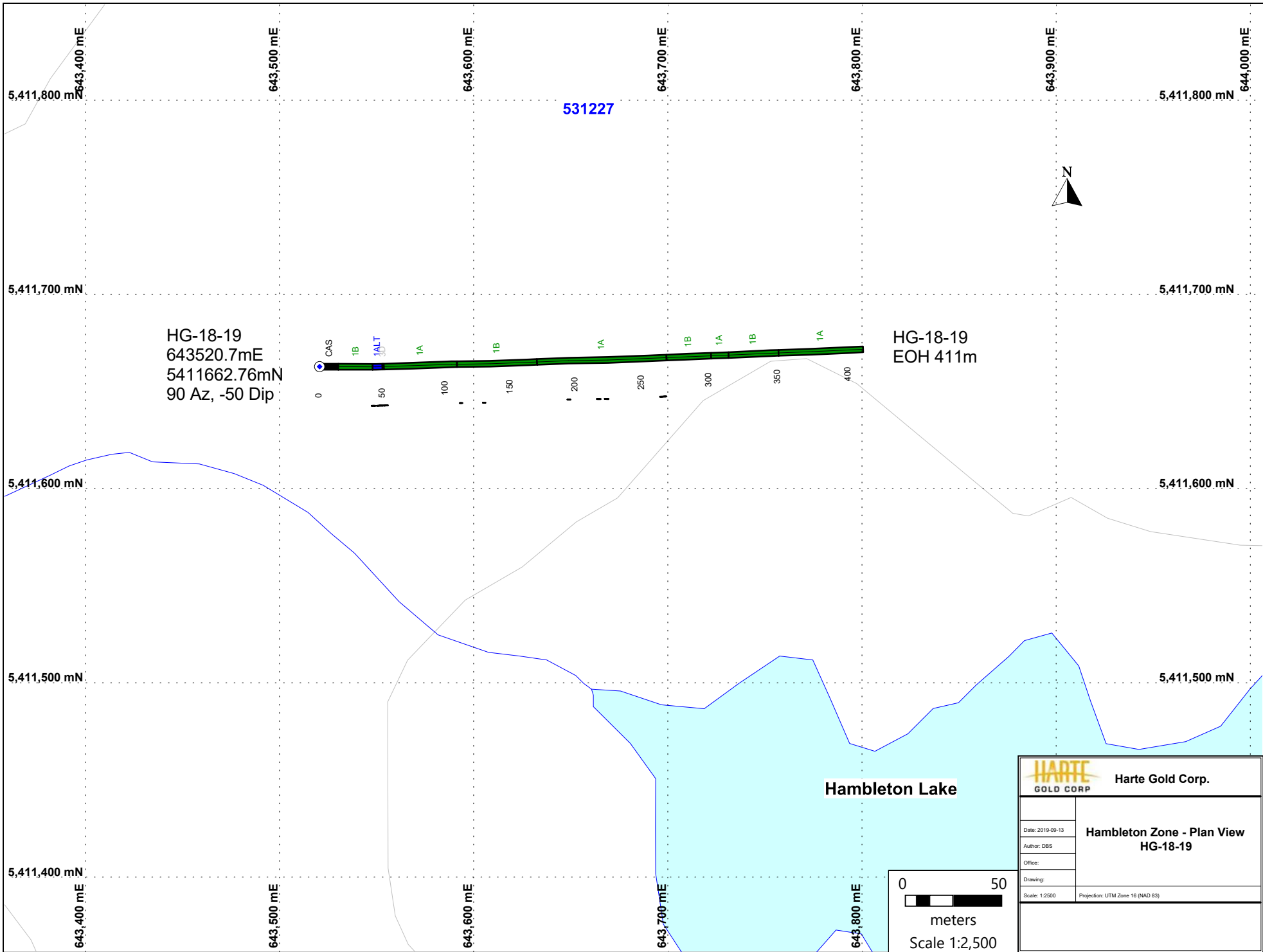
HG-18-18  
 EOH 342m

HG-11-10  
 643431.37mE  
 5412355.64mN  
 86.3 Az, -46.6 Dip

HG-11-10  
 EOH 279.5m

<b>Harte Gold Corp.</b>	
Date: 2019-09-13 Author: DBS Office:	<b>Hambleton Zone - Plan View          HG-18-18</b>
Drawing: Scale: 1:2500 Projection: UTM Zone 18 (NAD 83)	





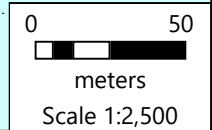
HG-18-19  
 643520.7mE  
 5411662.76mN  
 90 Az, -50 Dip

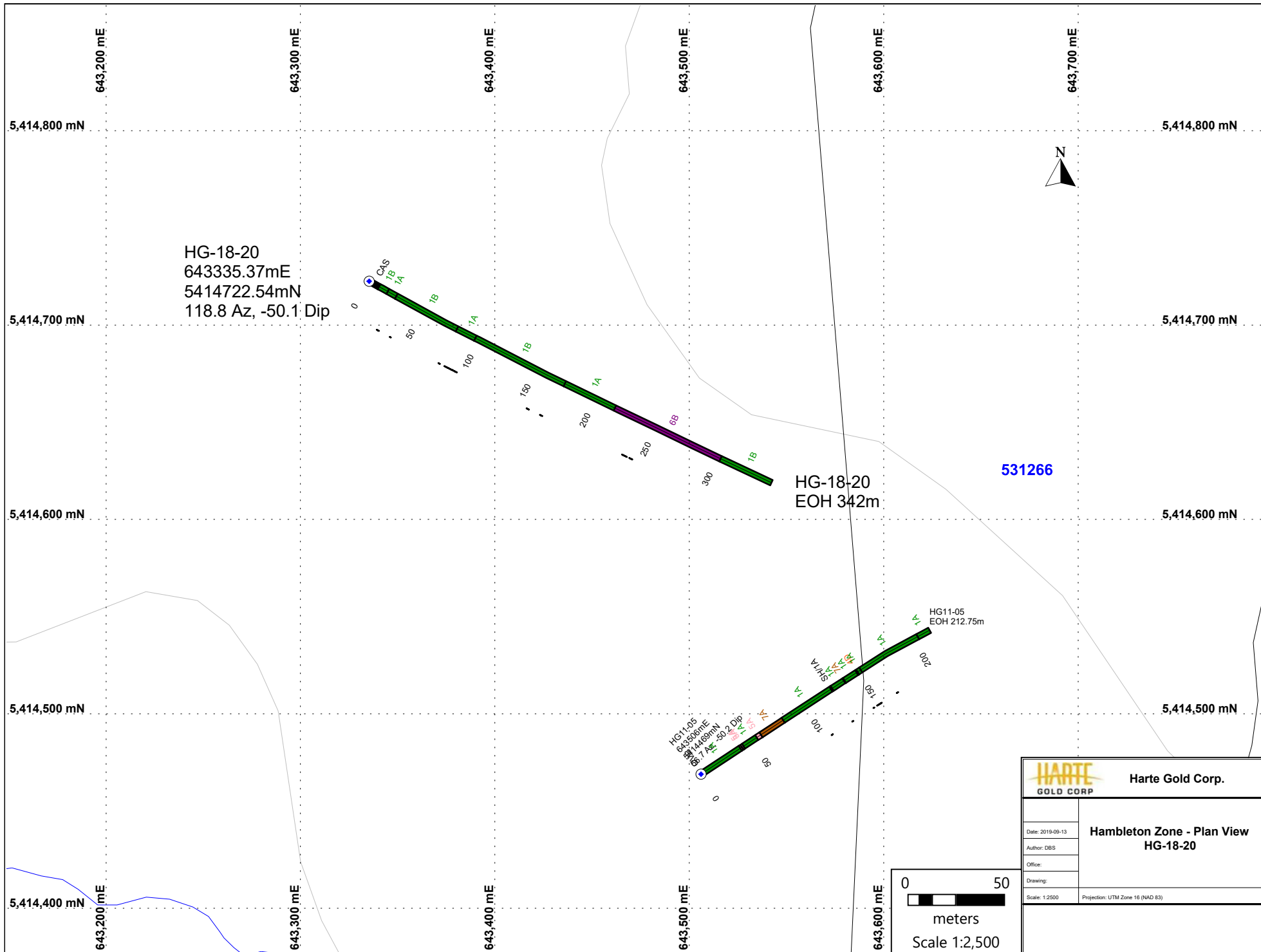
HG-18-19  
 EOH 411m

531227

Hambleton Lake

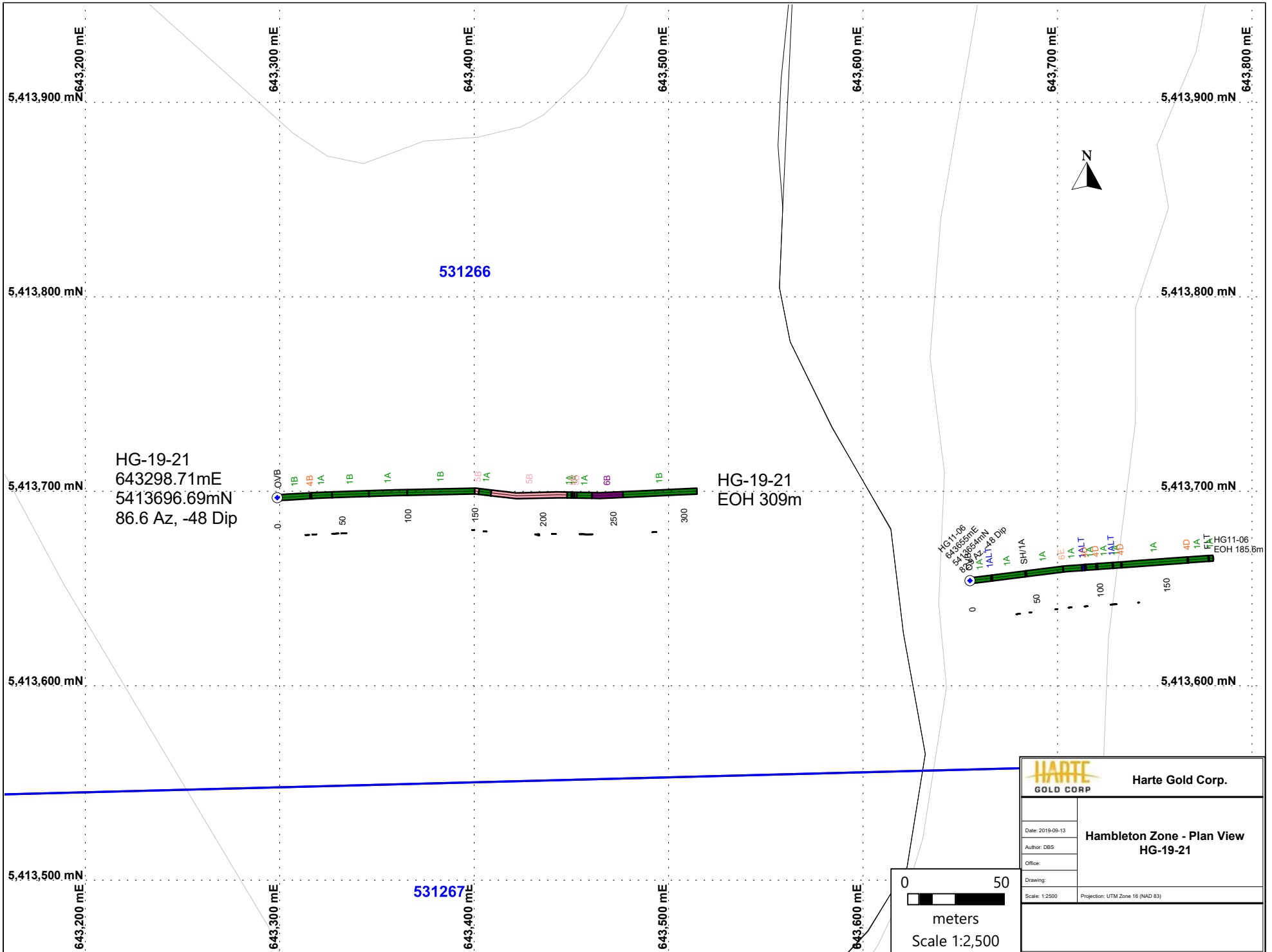
<b>HARTE</b> GOLD CORP.		Harte Gold Corp.	
Date: 2019-09-13		<b>Hambleton Zone - Plan View</b> <b>HG-18-19</b>	
Author: GBS			
Office:			
Drawing:		Projection: UTM Zone 16 (NAD 83)	
Scale: 1:2500			





 <b>Harte Gold Corp.</b>	
Date: 2019-09-13 Author: DBS Office: Drawing: Scale: 1:2500 Projection: UTM Zone 16 (NAD 83)	<b>Hambleton Zone - Plan View</b> <b>HG-18-20</b>

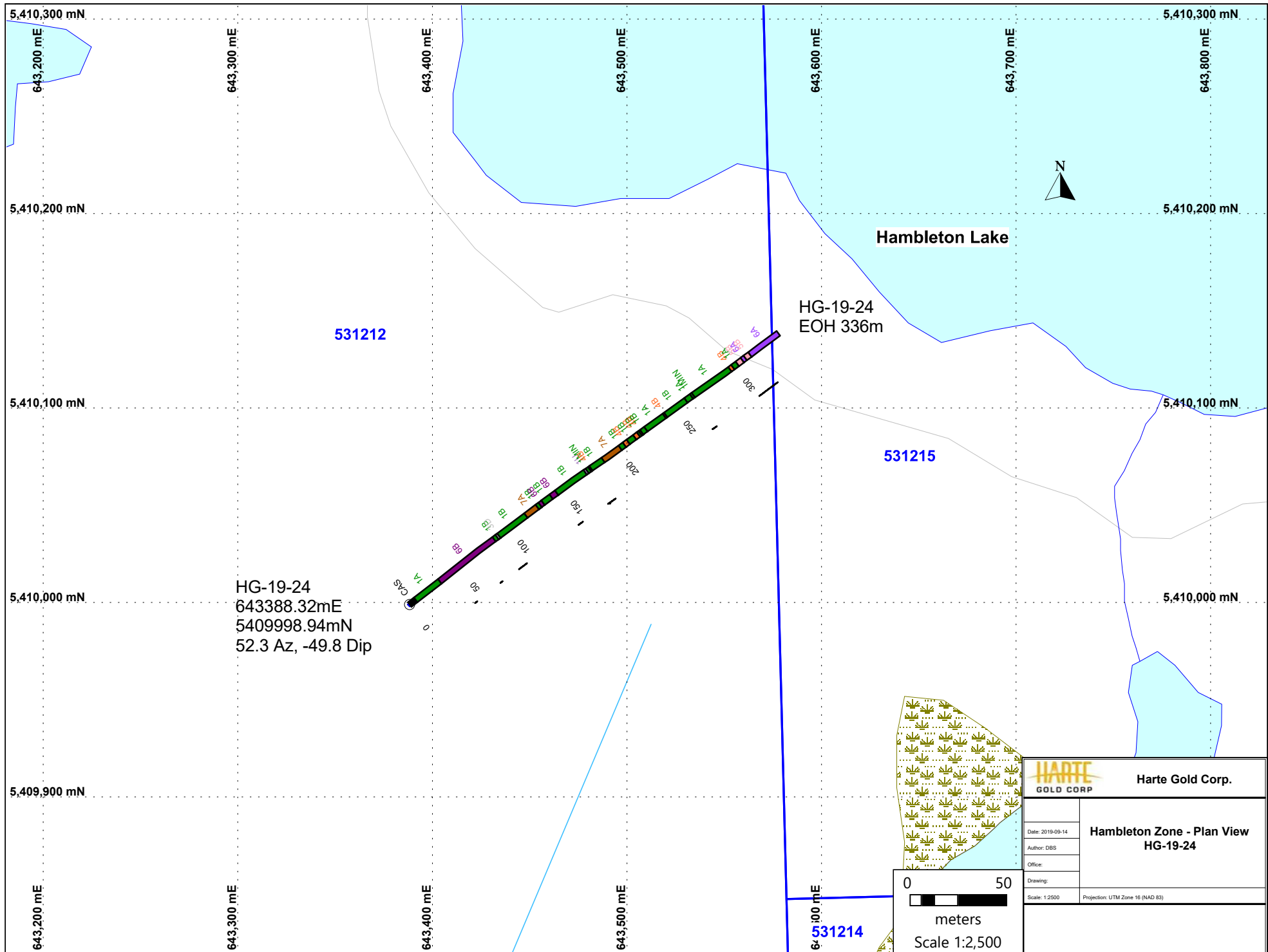


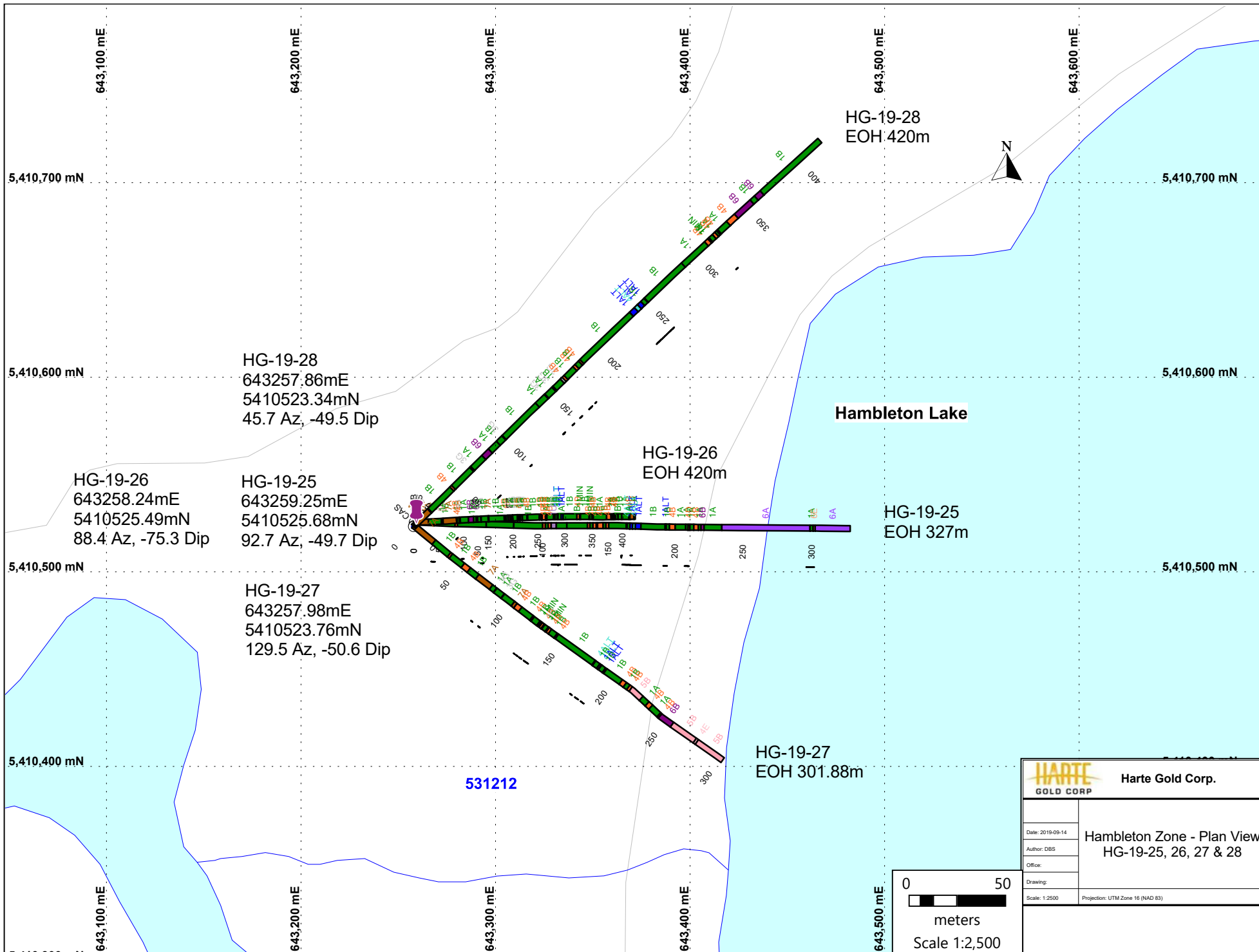


<b>HARTE</b> GOLD CORP.		<b>Harte Gold Corp.</b>	
Date: 2019-09-13	<b>Hambleton Zone - Plan View HG-19-21</b>		
Author: DBS			
Office:			
Drawing:	Scale: 1:2500	Projection: UTM Zone 16 (NAD 83)	

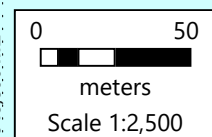




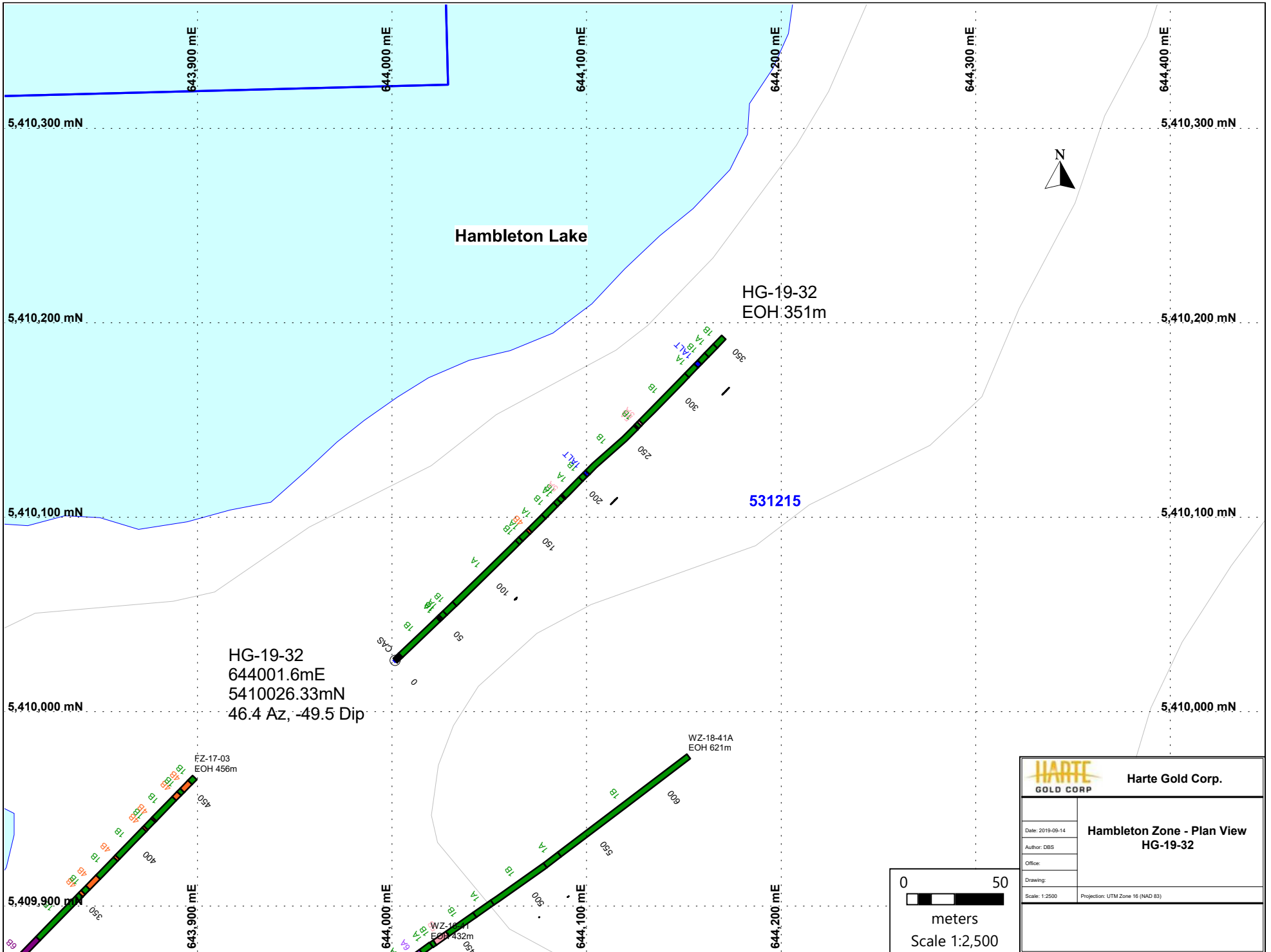




<b>HARTE</b> GOLD CORP.		Harte Gold Corp.	
Date: 2019-09-14	Hambleton Zone - Plan View HG-19-25, 26, 27 & 28		
Author: DBS			
Office:			
Drawing:			
Scale: 1:2500	Projection: UTM Zone 16 (NAD 83)		







<b>HARTE</b> GOLD CORP.		<b>Harte Gold Corp.</b>	
Date: 2019-09-14		<b>Hambleton Zone - Plan View</b> <b>HG-19-32</b>	
Author: DBS			
Office:			
Drawing:		Scale: 1:2500      Projection: UTM Zone 16 (NAD 83)	
<p>0                      50 meters Scale 1:2,500</p>			

**Appendix E – Hambleton Grid 2018 & 2019 Actlabs Assay Certificates**





**Date Submitted:** 05-Nov-18  
**Invoice No.:** A18-16716  
**Invoice Date:** 03-Dec-18  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

42 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT      **A18-16716**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
783315	< 5
783316	< 5
785284	7
785285	< 5
785286	5
785299	7
785300	< 5
785287	7
785288	5
785289	5
785290	6630
785291	< 5
785292	8
785293	7
785294	< 5
785295	12
785296	< 5
785297	6
785298	7
785301	6
785302	7
785303	7
785304	8
785305	< 5
785306	8
785307	7
785308	6
785309	12
785310	5620
785311	6
785312	6
785313	10
785314	6
785315	6
785316	10
785317	12
785318	5
785319	7
785320	5
785321	< 5
785322	7
785323	5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 254 Meas	2500
OREAS 254 Cert	2550
OREAS 254 Meas	2550
OREAS 254 Cert	2550
OREAS 254 Meas	2560
OREAS 254 Cert	2550
Oreas 221 (Fire Assay) Meas	1070
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1050
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1030
Oreas 221 (Fire Assay) Cert	1060
785296 Orig	5
785296 Dup	< 5
785302 Orig	7
785302 Dup	7
785316 Orig	9
785316 Dup	11
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 05-Nov-18  
**Invoice No.:** A18-16717  
**Invoice Date:** 30-Nov-18  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

25 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT      **A18-16717**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
785324	< 5
785325	12
785326	< 5
785327	5
785328	< 5
785329	< 5
785330	3320
785331	< 5
785332	11
785333	< 5
785334	< 5
785335	6
785336	< 5
785337	8
785338	< 5
785339	< 5
785340	< 5
785341	< 5
785342	< 5
785343	7
785344	< 5
785345	< 5
785346	14
785347	< 5
785348	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 254 Meas	2460
OREAS 254 Cert	2550
OREAS 254 Meas	2490
OREAS 254 Cert	2550
OREAS 254 Meas	2610
OREAS 254 Cert	2550
Oreas 221 (Fire Assay) Meas	1080
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1050
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1050
Oreas 221 (Fire Assay) Cert	1060
785324 Orig	< 5
785324 Dup	< 5
785333 Orig	< 5
785333 Dup	< 5
785339 Orig	< 5
785339 Dup	< 5
Method Blank	5
Method Blank	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 05-Nov-18  
**Invoice No.:** A18-16718  
**Invoice Date:** 07-Dec-18  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

36 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A18-16718**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
785248	10
785249	22
785250	5310
785251	5
785252	6
785253	< 5
785254	< 5
785255	7
785256	17
785257	6
785258	6
785259	5
785260	< 5
785261	< 5
785262	5
785263	5
785264	< 5
785265	< 5
785266	< 5
785267	< 5
785268	< 5
785269	5
785270	3470
785271	6
785272	6
785273	6
785274	6
785275	5
785276	< 5
785277	5
785278	< 5
785279	6
785280	< 5
785281	5
785282	5
785283	13



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 254 Meas	2510
OREAS 254 Cert	2550
OREAS 254 Meas	2510
OREAS 254 Cert	2550
OREAS 254 Meas	2650
OREAS 254 Cert	2550
Oreas 221 (Fire Assay) Meas	1080
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1080
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1040
Oreas 221 (Fire Assay) Cert	1060
785260 Orig	< 5
785260 Dup	< 5
785269 Orig	5
785269 Dup	5
785278 Orig	< 5
785278 Dup	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 09-Nov-18  
**Invoice No.:** A18-17154  
**Invoice Date:** 28-Nov-18  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

21 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT      **A18-17154**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
785349	< 5
785350	6400
785351	6
785352	< 5
785353	< 5
785354	5
785355	< 5
785356	< 5
785357	6
785358	< 5
785359	< 5
785360	< 5
785361	< 5
785362	< 5
785363	< 5
787172	< 5
787173	11
787174	5
787175	< 5
787176	6
787177	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 254 Meas	2490
OREAS 254 Cert	2550
OREAS 254 Meas	2510
OREAS 254 Cert	2550
Oreas 221 (Fire Assay) Meas	1010
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1040
Oreas 221 (Fire Assay) Cert	1060
785357 Orig	6
785357 Dup	5
787175 Orig	< 5
787175 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 01-Mar-19  
**Invoice No.:** A19-03171  
**Invoice Date:** 11-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

45 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-03171**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
787521	9
787522	6
787523	7
787524	< 5
787525	5
787526	< 5
787527	< 5
787528	< 5
787529	< 5
787530	6320
787531	8
787532	< 5
787533	< 5
787534	< 5
787535	6
787536	6
787537	< 5
787539	< 5
787540	< 5
787541	< 5
787542	< 5
787543	5
787544	14
787545	41
787546	69
787547	< 5
787548	< 5
787549	9
787550	5180
787551	7
787552	< 5
787553	< 5
787554	7
787555	< 5
787556	5
787557	10
787558	10
787559	< 5
787560	< 5
787561	< 5
787562	< 5
787563	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
787564	< 5
787565	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 222 (Fire Assay) Meas	1160
OREAS 222 (Fire Assay) Cert	1220
OREAS 222 (Fire Assay) Meas	1170
OREAS 222 (Fire Assay) Cert	1220
OREAS 215 (Fire Assay) Meas	3350
OREAS 215 (Fire Assay) Cert	3540
OREAS 215 (Fire Assay) Meas	3410
OREAS 215 (Fire Assay) Cert	3540
787531 Orig	10
787531 Dup	5
787541 Orig	< 5
787541 Dup	< 5
787551 Orig	9
787551 Dup	5
787557 Orig	10
787557 Dup	9
Method Blank	< 5
Method Blank	< 5
Method Blank	5





**Date Submitted:** 07-Mar-19  
**Invoice No.:** A19-03441  
**Invoice Date:** 30-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C1B5**

**ATTN: Vice President Tim Campbell**

## CERTIFICATE OF ANALYSIS

68 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-03441**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 07-Mar-19  
**Invoice No.:** A19-03441  
**Invoice Date:** 30-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C1B5**

**ATTN: Vice President Tim Campbell**

**CERTIFICATE OF ANALYSIS**

68 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-03441**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-03441

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787566	< 5																						
787567	27																						
787568	< 5																						
787569	< 5																						
787570	3530																						
787571	< 5																						
787572	< 5																						
787573	< 5																						
787574	< 5																						
787575	< 5																						
787576	< 5																						
787577	< 5																						
787578	< 5																						
787579	< 5																						
787580	< 5																						
787581	8																						
787582	33																						
787583	< 5																						
787584	< 5																						
787585	< 5																						
787586	< 5																						
787587	5	27.9	0.92	1.98	4.60	0.98	3.96	2.2	74	194	735	10.5	1.8	20	107	0.9	1.1	0.3	0.39	3.94	25.5	0.99	0.49
787588	< 5																						
787589	< 5																						
787590	6670																						
787591	12																						
787592	< 5																						
787593	< 5																						
787594	8	6.3	0.15	1.26	1.90	0.03	4.87	5.7	43	106	893	15.3	0.7	40	36.8	1.1	0.8	0.4	0.68	2.18	25.4	1.20	1.74
787595	< 5																						
787596	< 5																						
787597	< 5																						
787598	< 5																						
787599	< 5																						
787600	< 5																						
787601	< 5																						
787602	< 5																						
787603	< 5																						
787604	< 5																						
787605	< 5	19.6	0.90	2.03	4.91	0.47	5.59	3.5	129	124	1180	7.05	1.6	40	61.7	1.8	0.7	0.6	0.31	2.85	36.7	1.04	1.34
787606	< 5																						
787607	< 5	39.6	0.78	3.00	5.75	0.45	6.93	0.9	194	147	1630	9.39	0.9	40	65.5	1.9	0.4	0.7	0.26	3.50	57.2	0.75	1.80

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787608	< 5																						
787609	< 5																						
787610	5430																						
787611	< 5																						
787612	< 5																						
787613	< 5																						
787614	< 5																						
787615	11																						
787616	< 5																						
787617	< 5																						
787618	< 5																						
787619	< 5																						
787633	< 5																						
787620	< 5																						
787621	< 5																						
787622	< 5																						
787623	< 5																						
787624	< 5																						
787625	< 5																						
787626	< 5																						
787627	< 5																						
787628	< 5																						
787629	< 5																						
787630	3560																						
787631	< 5																						
787632	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787566																							
787567																							
787568																							
787569																							
787570																							
787571																							
787572																							
787573																							
787574																							
787575																							
787576																							
787577																							
787578																							
787579																							
787580																							
787581																							
787582																							
787583																							
787584																							
787585																							
787586																							
787587	1.6	743	14.0	< 0.1	38.1	8.5	159	67	2.6	2.68	0.3	6	< 0.1	0.2	376	12.8	30.5	3.5	14.7	3.2	2.4	0.3	1.8
787588																							
787589																							
787590																							
787591																							
787592																							
787593																							
787594	4.0	1950	9.3	< 0.1	2.1	9.5	48.7	26	1.4	2.35	0.5	9	< 0.1	1.2	7	7.4	18.4	2.2	9.6	2.0	2.0	0.3	1.8
787595																							
787596																							
787597																							
787598																							
787599																							
787600																							
787601																							
787602																							
787603																							
787604																							
787605	1.5	1620	13.8	0.1	19.8	14.8	125	50	3.1	7.74	0.6	4	< 0.1	0.3	130	11.6	28.5	3.4	15.4	3.5	3.4	0.5	3.2
787606																							
787607	1.2	503	13.9	< 0.1	16.5	15.0	95.3	28	2.0	4.27	< 0.1	1	< 0.1	0.2	186	4.0	10.4	1.3	6.6	2.0	2.4	0.4	3.0

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787608																							
787609																							
787610																							
787611																							
787612																							
787613																							
787614																							
787615																							
787616																							
787617																							
787618																							
787619																							
787633																							
787620																							
787621																							
787622																							
787623																							
787624																							
787625																							
787626																							
787627																							
787628																							
787629																							
787630																							
787631																							
787632																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787566																
787567																
787568																
787569																
787570																
787571																
787572																
787573																
787574																
787575																
787576																
787577																
787578																
787579																
787580																
787581																
787582																
787583																
787584																
787585																
787586																
787587	426	1.0	0.1	0.9	0.1	0.1	0.8	< 0.001	0.39	23.0	10	1.9	0.5	0.256	0.064	1.11
787588																
787589																
787590																
787591																
787592																
787593																
787594	368	1.1	0.2	1.1	0.1	< 0.1	0.5	0.002	0.06	48.0	6	0.6	0.2	0.140	0.060	2.41
787595																
787596																
787597																
787598																
787599																
787600																
787601																
787602																
787603																
787604																
787605	253	0.2	0.3	1.8	0.3	0.2	0.7	0.001	0.28	11.3	17	1.5	0.5	0.411	0.089	1.08
787606																
787607	175	0.2	0.3	1.9	0.3	0.1	0.7	< 0.001	0.24	5.9	33	0.5	0.1	0.419	0.027	1.22

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787608																
787609																
787610																
787611																
787612																
787613																
787614																
787615																
787616																
787617																
787618																
787619																
787633																
787620																
787621																
787622																
787623																
787624																
787625																
787626																
787627																
787628																
787629																
787630																
787631																
787632																



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		13.9	0.65	1.98	8.58	4.21	1.07	0.1	92	48	163	3.43	1.4	< 10	41.9		2.4		3.66	2.64	14.8	1.34	19.8
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		13.2	0.58	1.85	7.73	4.09	1.00	0.2	91	47	166	3.18	1.3	< 10	41.7		2.0		3.47	2.50	13.6	1.28	18.7
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		36.7	1.42	0.92	7.80	2.23	1.04		46	43	806	4.56	1.1	40	36.2	3.3	2.9	1.2		3.67	18.0	1.50	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		38.3	0.11	0.68	> 10.0	2.04	0.17	0.1	173	69	1150	6.27	2.6	< 10	26.6		1.3		0.35	4.20	14.4	0.63	0.19
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		42.6	0.10	0.62	> 10.0	2.12	0.18	< 0.1	164	89	1130	6.04	2.5	< 10	26.8		1.2		0.35	4.13	14.5	0.63	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																			19.3		63.2		40.0
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			18.9		62.7		40.5
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			41.7		109		88.5
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			42.4		113		90.7
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.39				7.65		141	124		6.78			261						55.0	0.51	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.13				6.89		125	113		6.14			250						52.5	0.57	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
SBC-1 Meas		160						0.3	209	87			3.2		80.1	2.8	3.2	1.1		7.21	20.4	1.61	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		178						0.4	220	85			3.5		90.2	3.1	3.4	1.2		7.93	22.8	1.85	0.78
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		19.8	0.09	0.21	7.73	0.39	0.17		69	408	448	14.3	1.1		227	1.3	0.8	0.5		3.63	27.6	0.56	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.4	0.09	0.21	7.58	0.41	0.18		125	493	503	14.6	2.7		234	1.3	0.8	0.5		3.67	28.5	0.53	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Assay) Cert																							
OREAS 222 (Fire Assay) Meas	1280																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1270																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																			11.1		49.1		27.1
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		47.8		27.3
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		30.6	0.35	1.65	6.94	2.65	0.48	0.4	86	69	974	6.45	3.7		36.7	2.6	2.5	0.9	1.63	6.31	21.5	1.21	21.3
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 215 (Fire Assay) Meas	3480																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3580																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3560																						
OREAS 215 (Fire Assay) Cert	3540																						
787575 Orig	< 5																						
787575 Dup	< 5																						
787585 Orig	< 5																						
787585 Dup	< 5																						
787595 Orig	< 5																						
787595 Dup	< 5																						
787607 Orig		39.9	0.79	2.97	5.85	0.45	7.02	0.9	195	146	1620	9.42	0.8	40	66.2	1.9	0.4	0.7	0.24	3.55	56.9	0.77	1.81
787607 Dup		39.3	0.76	3.03	5.66	0.45	6.84	0.9	192	148	1640	9.36	0.9	30	64.9	1.9	0.4	0.6	0.28	3.46	57.4	0.73	1.79
787611 Orig	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787611 Dup	< 5																						
787615 Orig	11																						
787615 Split PREP DUP	< 5																						
787619 Orig	< 5																						
787619 Dup	< 5																						
787628 Orig	< 5																						
787628 Dup	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	4	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	1	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 1	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	2	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	6.6	73.4	19.9	111	144	13.6	221	51	9.7	318	0.2	7	4.7	1.0	324	56.8	108		41.7	7.3	4.5	0.5	2.7
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.8	70.0	19.5	104	134	12.4	209	45	9.0	297	0.2	7	4.1	0.9	315	53.3	102		38.6	5.7	4.5	0.5	2.6
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		101	20.4	< 0.1	102		154	36	0.1			< 1	< 0.1		633	37.2	85.3		38.8	8.4	6.9	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	1.0	133	31.6	319	84.8	12.5	37.4	95	3.3	2.28	< 0.1	1	1.6	< 0.1	1250	12.8	37.2		12.8	2.8	2.2	0.4	2.3
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.5	135	29.8	289	83.3	12.5	36.6	93	2.9	27.1	< 0.1	1	2.1	< 0.1	1240	12.7	37.5		12.7	2.7	2.5	0.4	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	67.7	581										93	6.9										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	66.7	606										94	7.3										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	150	1220										192	5.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1210										195	12.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		64.2	12.9		3.5	15.3	147	37	1.4				0.7		105	3.6			4.7				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		56.9	11.2		3.3	13.5	121	33	1.2				0.7		103	3.4			4.6				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		186	25.4	25.8	117	27.0	173	118	14.8	2.13		3	0.9		736	40.6	90.3	10.0	41.4	8.5	7.1	1.0	5.7
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		194	26.9	26.4	138	30.4	182	129	16.0	2.31		3	1.1		799	48.5	104	11.7	48.3	8.7	8.2	1.2	6.4
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		40.9	18.7	7.1	39.9	10.2	30.6	45	0.2	0.21	< 0.1	< 1	< 0.1		185	15.9	37.1	3.6	13.7	2.7	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		41.4	20.4	10.4	41.1	10.5	30.9	106	1.3	0.86	< 0.1	< 1	< 0.1		186	16.1	37.2	3.5	13.5	2.8	2.4	0.4	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	39.4	416										64	3.6										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	39.0	430										63	4.0										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	5.2	329	17.3	5.1	142	22.8	40.3	130	14.3	0.98	0.5	14	1.2		451	39.7	81.8	8.8	35.3	6.7	5.3	0.8	4.9
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
787575 Orig																							
787575 Dup																							
787585 Orig																							
787585 Dup																							
787595 Orig																							
787595 Dup																							
787607 Orig	1.1	509	13.9	0.1	15.8	15.0	95.5	31	2.0	4.19	< 0.1	1	< 0.1	0.2	186	3.9	10.3	1.3	6.5	1.8	2.3	0.4	3.0
787607 Dup	1.3	497	13.9	< 0.1	17.2	15.0	95.1	24	2.1	4.36	0.1	1	< 0.1	0.2	187	4.1	10.5	1.3	6.8	2.1	2.4	0.4	3.1
787611 Orig																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787611 Dup																							
787615 Orig																							
787615 Split PREP DUP																							
787619 Orig																							
787619 Dup																							
787628 Orig																							
787628 Dup																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6340		0.2	1.1	0.1	0.6	36.1		3.28	51.7	7	22.4	6.2	0.244	0.125	1.70
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6250		0.2	1.0	0.1	0.6	35.4		3.07	48.8	7	21.1	5.6	0.248	0.127	1.71
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	32.3		0.5	3.4		< 0.1	< 0.1		0.63	25.4	14	12.3	2.8	0.158	0.054	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	78.5			1.7	0.3	< 0.1	0.4		2.27	107	26	5.7	1.5		0.037	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	78.2			1.7	0.3	< 0.1	0.4		2.26	106		5.6	1.6			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									144						6.89
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									146						6.89
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									300						16.0
OREAS 98 (4 Acid) Cert	14800.0.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									322						16.1
OREAS 98 (4 Acid) Cert	14800.0.0									345						15.5
DNC-1a Meas	103			1.9						6.5	27			0.272		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	94.5			1.9						6.2	28			0.277		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	30.6		0.5	3.1	0.4	1.0	1.7		0.87	35.8	19	14.1	5.5	0.476		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	38.2		0.5	3.4	0.5	1.1	1.8		0.92	37.3	19	16.5	6.0	0.493		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	361			1.4	0.2	< 0.1	< 0.1		0.25	22.3	46	15.1	2.9	0.106	0.034	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	375			1.4	0.2	< 0.1	0.2		0.26	21.7	50	15.1	2.8	0.324	0.037	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									100						4.34
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									101						4.22
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 923 (4 Acid) Meas	4040		0.4	2.6	0.4	1.1	5.6		0.90	87.8	12	17.3	3.3	0.386	0.060	0.68
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas											6			0.176	0.035	4.39
OREAS 621 (4 Acid) Cert											6.24			0.149	0.0359	4.48
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
787575 Orig																
787575 Dup																
787585 Orig																
787585 Dup																
787595 Orig																
787595 Dup																
787607 Orig	177	0.2	0.3	1.9	0.3	0.1	0.7	< 0.001	0.24	5.8	33	0.5	0.1	0.419	0.027	1.22
787607 Dup	173	0.2	0.3	1.9	0.3	0.1	0.7	< 0.001	0.23	6.0	34	0.5	0.1	0.418	0.027	1.21
787611 Orig																



Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787611 Dup																
787615 Orig																
787615 Split PREP DUP																
787619 Orig																
787619 Dup																
787628 Orig																
787628 Dup																
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																



**Date Submitted:** 07-Mar-19  
**Invoice No.:** A19-03445  
**Invoice Date:** 30-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C1B5**

**ATTN: Vice President Tim Campbell**

## CERTIFICATE OF ANALYSIS

40 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-03445**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written in a cursive style with a horizontal line underneath.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 07-Mar-19  
**Invoice No.:** A19-03445  
**Invoice Date:** 30-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C1B5**

**ATTN: Vice President Tim Campbell**

**CERTIFICATE OF ANALYSIS**

40 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-03445**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787634	< 5																						
787635	< 5																						
787636	< 5																						
787637	< 5																						
787638	< 5	21.3	1.02	2.34	4.70	0.55	5.71	0.9	106	297	788	5.56	1.3	20	138	1.1	0.4	0.5	0.18	3.72	37.9	0.72	0.45
787639	< 5																						
787640	< 5																						
787641	< 5																						
787642	< 5																						
787643	< 5																						
787644	< 5																						
787645	< 5																						
787646	< 5																						
787647	< 5																						
787648	< 5																						
787649	< 5																						
787650	6630																						
787651	< 5																						
787652	< 5																						
787653	< 5																						
787654	< 5																						
787655	< 5																						
787656	< 5																						
787657	< 5																						
787658	< 5																						
787659	< 5																						
787660	< 5																						
787661	6																						
787662	< 5																						
787663	< 5																						
785367	< 5																						
787664	< 5																						
787665	< 5																						
787666	10																						
787667	8																						
787668	< 5																						
787669	< 5																						
787670	5330																						
787671	< 5																						
787672	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787634																							
787635																							
787636																							
787637																							
787638	0.6	433	11.8	< 0.1	30.9	10.1	124	50	2.3	19.4	0.1	2	< 0.1	< 0.1	254	9.5	21.7	2.4	10.1	2.5	2.2	0.3	2.0
787639																							
787640																							
787641																							
787642																							
787643																							
787644																							
787645																							
787646																							
787647																							
787648																							
787649																							
787650																							
787651																							
787652																							
787653																							
787654																							
787655																							
787656																							
787657																							
787658																							
787659																							
787660																							
787661																							
787662																							
787663																							
785367																							
787664																							
787665																							
787666																							
787667																							
787668																							
787669																							
787670																							
787671																							
787672																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787634																
787635																
787636																
787637																
787638	200	0.7	0.2	1.3	0.2	0.1	0.4	0.004	0.20	4.6	20	1.0	0.3	0.328	0.035	0.85
787639																
787640																
787641																
787642																
787643																
787644																
787645																
787646																
787647																
787648																
787649																
787650																
787651																
787652																
787653																
787654																
787655																
787656																
787657																
787658																
787659																
787660																
787661																
787662																
787663																
785367																
787664																
787665																
787666																
787667																
787668																
787669																
787670																
787671																
787672																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		13.9	0.65	1.98	8.58	4.21	1.07	0.1	92	48	163	3.43	1.4	< 10	41.9		2.4		3.66	2.64	14.8	1.34	19.8
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		13.2	0.58	1.85	7.73	4.09	1.00	0.2	91	47	166	3.18	1.3	< 10	41.7		2.0		3.47	2.50	13.6	1.28	18.7
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		36.7	1.42	0.92	7.80	2.23	1.04		46	43	806	4.56	1.1	40	36.2	3.3	2.9	1.2		3.67	18.0	1.50	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		38.3	0.11	0.68	> 10.0	2.04	0.17	0.1	173	69	1150	6.27	2.6	< 10	26.6		1.3		0.35	4.20	14.4	0.63	0.19
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		42.6	0.10	0.62	> 10.0	2.12	0.18	< 0.1	164	89	1130	6.04	2.5	< 10	26.8		1.2		0.35	4.13	14.5	0.63	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																			19.3		63.2		40.0
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			18.9		62.7		40.5
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			41.7		109		88.5
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			42.4		113		90.7
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas		4.5	1.39				7.65		141	124		6.78			261						55.0	0.51	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.13				6.89		125	113		6.14			250						52.5	0.57	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
SBC-1 Meas		160						0.3	209	87			3.2		80.1	2.8	3.2	1.1		7.21	20.4	1.61	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		178						0.4	220	85			3.5		90.2	3.1	3.4	1.2		7.93	22.8	1.85	0.78
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		19.8	0.09	0.21	7.73	0.39	0.17		69	408	448	14.3	1.1		227	1.3	0.8	0.5		3.63	27.6	0.56	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.4	0.09	0.21	7.58	0.41	0.18		125	493	503	14.6	2.7		234	1.3	0.8	0.5		3.67	28.5	0.53	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1250																						
OREAS 222 (Fire Assay) Cert	1220																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Assay) Cert																							
OREAS 222 (Fire Assay) Meas	1290																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																			11.1		49.1		27.1
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		47.8		27.3
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		30.6	0.35	1.65	6.94	2.65	0.48	0.4	86	69	974	6.45	3.7		36.7	2.6	2.5	0.9	1.63	6.31	21.5	1.21	21.3
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 215 (Fire Assay) Meas	3540																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3520																						
OREAS 215 (Fire Assay) Cert	3540																						
787643 Orig	< 5																						
787643 Dup	< 5																						
787653 Orig	< 5																						
787653 Dup	< 5																						
787663 Orig	< 5																						
787663 Dup	< 5																						
787669 Orig	< 5																						
787669 Dup	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	4	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	1	7	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 1	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	2	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 5																						



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 5																							
Method Blank	< 5																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	6.6	73.4	19.9	111	144	13.6	221	51	9.7	318	0.2	7	4.7	1.0	324	56.8	108		41.7	7.3	4.5	0.5	2.7
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.8	70.0	19.5	104	134	12.4	209	45	9.0	297	0.2	7	4.1	0.9	315	53.3	102		38.6	5.7	4.5	0.5	2.6
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		101	20.4	< 0.1	102		154	36	0.1			< 1	< 0.1		633	37.2	85.3		38.8	8.4	6.9	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	1.0	133	31.6	319	84.8	12.5	37.4	95	3.3	2.28	< 0.1	1	1.6	< 0.1	1250	12.8	37.2		12.8	2.8	2.2	0.4	2.3
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.5	135	29.8	289	83.3	12.5	36.6	93	2.9	27.1	< 0.1	1	2.1	< 0.1	1240	12.7	37.5		12.7	2.7	2.5	0.4	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	67.7	581										93	6.9										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	66.7	606										94	7.3										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	150	1220										192	5.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	160	1210										195	12.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		64.2	12.9		3.5	15.3	147	37	1.4				0.7		105	3.6			4.7				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		56.9	11.2		3.3	13.5	121	33	1.2				0.7		103	3.4			4.6				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		186	25.4	25.8	117	27.0	173	118	14.8	2.13		3	0.9		736	40.6	90.3	10.0	41.4	8.5	7.1	1.0	5.7
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		194	26.9	26.4	138	30.4	182	129	16.0	2.31		3	1.1		799	48.5	104	11.7	48.3	8.7	8.2	1.2	6.4
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		40.9	18.7	7.1	39.9	10.2	30.6	45	0.2	0.21	< 0.1	< 1	< 0.1		185	15.9	37.1	3.6	13.7	2.7	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		41.4	20.4	10.4	41.1	10.5	30.9	106	1.3	0.86	< 0.1	< 1	< 0.1		186	16.1	37.2	3.5	13.5	2.8	2.4	0.4	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	39.4	416										64	3.6										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	39.0	430										63	4.0										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	5.2	329	17.3	5.1	142	22.8	40.3	130	14.3	0.98	0.5	14	1.2		451	39.7	81.8	8.8	35.3	6.7	5.3	0.8	4.9
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
787643 Orig																							
787643 Dup																							
787653 Orig																							
787653 Dup																							
787663 Orig																							
787663 Dup																							
787669 Orig																							
787669 Dup																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.6	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6340		0.2	1.1	0.1	0.6	36.1		3.28	51.7	7	22.4	6.2	0.244	0.125	1.70
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6250		0.2	1.0	0.1	0.6	35.4		3.07	48.8	7	21.1	5.6	0.248	0.127	1.71
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	32.3		0.5	3.4		< 0.1	< 0.1		0.63	25.4	14	12.3	2.8	0.158	0.054	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	78.5			1.7	0.3	< 0.1	0.4		2.27	107	26	5.7	1.5		0.037	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	78.2			1.7	0.3	< 0.1	0.4		2.26	106		5.6	1.6			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									144						6.89
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									146						6.89
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									300						16.0
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									322						16.1
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
DNC-1a Meas	103			1.9						6.5	27			0.272		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	94.5			1.9						6.2	28			0.277		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	30.6		0.5	3.1	0.4	1.0	1.7		0.87	35.8	19	14.1	5.5	0.476		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	38.2		0.5	3.4	0.5	1.1	1.8		0.92	37.3	19	16.5	6.0	0.493		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	361			1.4	0.2	< 0.1	< 0.1		0.25	22.3	46	15.1	2.9	0.106	0.034	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	375			1.4	0.2	< 0.1	0.2		0.26	21.7	50	15.1	2.8	0.324	0.037	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									100						4.34
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									101						4.22
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 923 (4 Acid) Meas	4040		0.4	2.6	0.4	1.1	5.6		0.90	87.8	12	17.3	3.3	0.386	0.060	0.68
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas											6			0.176	0.035	4.39
OREAS 621 (4 Acid) Cert											6.24			0.149	0.0359	4.48
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
787643 Orig																
787643 Dup																
787653 Orig																
787653 Dup																
787663 Orig																
787663 Dup																
787669 Orig																
787669 Dup																
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
														0.0005		
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank																
Method Blank																
Method Blank																



**Date Submitted:** 14-Mar-19  
**Invoice No.:** A19-03925  
**Invoice Date:** 29-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

18 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-03925**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



**Date Submitted:** 14-Mar-19  
**Invoice No.:** A19-03925  
**Invoice Date:** 29-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

18 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-03925**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787694	< 5																						
787695	53	22.7	0.93	2.47	5.67	1.22	4.98	2.5	183	138	1150	11.0	1.0	30	73.4	2.8	0.6	0.9	0.42	3.26	116	1.19	1.03
787696	8	29.8	1.46	2.58	7.19	1.20	6.37	0.3	136	132	1390	8.00	1.0	30	64.1	3.4	0.8	1.2	0.10	3.62	37.3	1.52	0.41
787697	5																						
787698	5																						
787699	5																						
787705	8																						
787706	8																						
787707	6																						
787708	< 5																						
787709	5																						
787710	5230																						
787711	< 5																						
787712	< 5	12.4	> 3.00	0.11	7.07	2.05	0.87	< 0.1	10	37	135	0.73	2.0	30	2.1	0.4	1.6	0.2	0.06	2.31	1.7	0.44	0.03
787713	< 5	11.8	> 3.00	0.09	7.71	2.48	0.91	< 0.1	9	16	132	0.67	2.1	20	1.5	0.5	1.7	0.2	0.06	1.93	1.0	0.45	0.03
787714	13	23.1	> 3.00	0.22	7.76	2.53	1.15	< 0.1	18	17	225	1.01	1.6	30	3.5	0.6	1.5	0.2	0.05	2.57	2.4	0.62	0.03
787715	< 5																						
787716	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787694																							
787695	0.7	1160	20.0	< 0.1	38.4	22.4	167	31	1.2	0.42	0.3	4	< 0.1	< 0.1	85	8.4	21.4	2.8	13.4	3.4	3.9	0.7	4.3
787696	< 0.1	278	14.5	< 0.1	35.3	29.2	395	31	0.3	< 0.05	0.1	2	< 0.1	< 0.1	556	16.2	37.9	4.6	22.1	5.0	5.3	0.9	5.5
787697																							
787698																							
787699																							
787705																							
787706																							
787707																							
787708																							
787709																							
787710																							
787711																							
787712	0.3	14.5	9.5	< 0.1	62.9	4.6	423	46	2.9	6.54	< 0.1	< 1	< 0.1	< 0.1	975	3.8	9.7	1.2	5.2	1.3	1.1	0.1	0.8
787713	< 0.1	14.8	11.0	< 0.1	70.9	4.7	429	45	3.1	1.35	< 0.1	< 1	< 0.1	< 0.1	1360	3.0	7.9	1.0	4.6	1.3	1.0	0.1	0.7
787714	< 0.1	27.7	9.1	< 0.1	79.9	5.2	469	46	3.2	0.99	< 0.1	< 1	< 0.1	< 0.1	1440	8.0	19.1	2.1	9.7	1.9	1.5	0.2	0.9
787715																							
787716																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787694																
787695	165	0.3	0.4	2.7	0.4	< 0.1	1.6	0.003	0.98	21.6	30	0.8	0.2	0.498	0.064	4.34
787696	81.6	0.2	0.5	3.4	0.4	< 0.1	< 0.1	0.002	0.36	10.5	32	2.0	0.5	0.365	0.078	0.48
787697																
787698																
787699																
787705																
787706																
787707																
787708																
787709																
787710																
787711																
787712	12.2	< 0.1	< 0.1	0.5	< 0.1	0.3	0.5	0.003	0.40	19.9	1	3.1	3.8	0.0390	0.008	0.11
787713	9.5	< 0.1	< 0.1	0.5	< 0.1	0.3	0.4	< 0.001	0.47	23.4	< 1	3.1	3.3	0.0388	0.005	0.06
787714	11.0	< 0.1	< 0.1	0.6	< 0.1	0.2	0.2	< 0.001	0.61	23.0	2	3.6	2.5	0.0709	0.017	0.05
787715																
787716																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		13.6	0.58	1.86	8.46	4.22	1.01	0.3	90	52	159	3.05	1.4	< 10	39.1		2.1		3.40	2.50	13.5	1.37	18.6
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		12.7	0.59	1.84	8.07	4.00	1.02	0.1	84	38	158	2.94	1.6	< 10	38.4		2.1		3.32	2.46	12.9	1.35	19.6
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		36.0	1.60	1.06	9.12	2.57	1.03		41	51	865	4.96	0.8	50	35.6		3.5	2.9	1.3		3.79	18.1	1.49
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0		4.10	3.00	1.50		4.00	18.0	1.70
SDC-1 Meas		37.5	2.01	1.16	9.51	2.88	1.12		31	41	910	5.24	0.7	50	37.1		3.3	3.5	1.2		3.86	18.2	1.49
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0		4.10	3.00	1.50		4.00	18.0	1.70
GXR-6 Meas		35.4	0.10	0.62	> 10.0	2.03	0.16	0.1	123	61	1080	5.68	1.9	40	24.8		1.1		0.31	4.17	13.8	0.69	0.19
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		34.8	0.11	0.69	> 10.0	1.91	0.16	< 0.1	153	59	1070	5.79	2.5	< 10	24.8		1.2		0.32	4.19	13.7	0.63	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																				17.9		55.5	40.8
OREAS 97 (4 Acid) Cert																				19.6		62.9	40.1
OREAS 98 (4 Acid) Meas																				42.1		105	88.1
OREAS 98 (4 Acid) Cert																				45.1		121	97.2
DNC-1a Meas		4.5	1.36				7.81		145	154		6.95			265							55.6	0.55
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247							57	0.59
DNC-1a Meas		4.3	1.46				7.66		138	120		6.80			259							52.5	0.57
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247							57	0.59
SBC-1 Meas		163							0.3	216	97			3.4	89.8	3.5	3.1	1.3		8.21	22.9	1.90	0.70
SBC-1 Cert		163							0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
SBC-1 Meas		177							0.4	231	96			3.4	93.3	3.4	3.5	1.2		8.04	23.3	1.75	0.69
SBC-1 Cert		163							0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		20.6	0.09	0.18	7.80	0.42	0.18		125	573	489	14.1	2.4		225	1.3	0.7	0.5		3.68	28.6	0.58	0.32
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.1	0.10	0.19	7.38	0.39	0.17		86	410	474	13.4	1.7		227	1.3	0.7	0.4		3.62	26.3	0.54	0.30
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																				11.2		50.4	26.9
OREAS 96 (4 Acid) Cert																				11.5		49.9	26.3
OREAS 96 (4																				11.8		53.6	27.6

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Acid) Meas																							
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			10.1		43.7		27.0
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 923 (4 Acid) Meas		31.9	0.34	1.80	8.08	2.80	0.48	0.4	97	88	1020	6.81	3.7		38.4	2.6	2.4	1.0	1.74	6.47	23.9	1.32	21.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 923 (4 Acid) Meas		30.7	0.38	1.90	8.08	2.61	0.50	0.3	92	68	1040	6.85	3.6		40.9	2.6	2.5	0.9	2.13	6.40	24.6	1.23	20.6
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	71.0	950	6.43	3.42		35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4
OREAS 621 (4 Acid) Meas		14.3	1.41	0.57	7.25	2.38	2.12	293	39	37	544	4.15	4.4		33.4		1.8		66.7	3.27	31.3		3.98
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		13.4	1.37	0.41	6.53	1.93	1.91	279	33	23	470	3.67	4.7		26.7		1.9		63.0	3.18	26.3		3.94
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 520 (4 Acid) Meas		15.9	1.31	1.19	5.69	3.50	4.16		286	46	2410	16.6	3.4		75.7	2.1	1.0	0.8	0.44	0.72	196	1.20	2.95
OREAS 520 (4 Acid) Cert		16.9	1.35	1.19	5.63	3.46	4.10		257	36.4	2420	16.4	3.53		76.0	2.21	1.06	0.760	0.450	0.800	203	1.29	2.94
OREAS 520 (4 Acid) Meas		15.7	1.43	1.21	5.55	3.41	4.28		240	42	2600	17.0	3.3		84.1	2.2	1.1	0.8	0.39	0.76	201	1.20	3.03
OREAS 520 (4 Acid) Cert		16.9	1.35	1.19	5.63	3.46	4.10		257	36.4	2420	16.4	3.53		76.0	2.21	1.06	0.760	0.450	0.800	203	1.29	2.94
787698 Orig	5																						
787698 Dup	5																						
787708 Orig	5																						
787708 Dup	< 5																						
787713 Orig	< 5																						
787713 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	28	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 1	1	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	21	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	2	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	14	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	4.4	77.7	19.5	113	139	12.7	212	46	9.1	299	0.2	7	4.3	0.8	409	54.8	100		39.5	6.8	4.5	0.5	2.7
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	3.9	64.1	14.8	98.9	132	12.3	214	47	9.1	299	0.2	7	4.2	1.0	957	54.5	105		39.8	6.8	4.3	0.5	2.6
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		123	22.0	< 0.1	115		179	33	< 0.1			< 1	< 0.1		650	40.6	82.2		38.9	7.9	6.8	1.1	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		110	22.2	< 0.1	119		183	27	0.2			< 1	< 0.1		673	40.2	88.1		40.1	7.3	6.7	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	0.8	151	25.0	273	85.3	12.4	38.2	68	0.3	0.65	< 0.1	< 1	0.8	< 0.1	1200	13.1	36.3		12.6	2.5	2.3	0.4	2.3
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.4	128	26.0	297	78.5	11.8	36.6	91	2.1	2.12	< 0.1	1	0.9	< 0.1	1250	12.6	37.2		13.0	2.3	2.4	0.3	2.3
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	61.1	554										87	6.6										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	145	1150										188	10.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		74.2	15.8		3.8	16.2	154	37	1.4				0.7		109	3.8			5.0				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		61.3	12.6		3.5	15.8	154	39	1.6				0.8		110	3.6			4.8				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		222	21.7	27.4	142	31.2	187	123	15.3	2.73		4	1.1		794	49.2	102	11.2	48.2	8.9	8.0	1.2	6.4
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		201	27.6	28.5	143	31.9	192	131	16.5	2.45		3	1.0		781	48.1	104	11.8	46.3	10.5	8.1	1.1	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		44.9	24.1	9.6	43.4	10.9	32.9	92	0.8	2.89	< 0.1	< 1	< 0.1		189	16.8	36.6	3.5	13.9	2.5	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		40.1	19.9	6.1	37.1	9.9	30.1	65	0.8	0.29	< 0.1	< 1	< 0.1		179	15.0	35.2	3.5	13.4	2.8	2.4	0.4	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	33.4	497										64	4.8										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4	36.7	523										67	4.7										

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Acid) Meas																							
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	33.4	382										59	4.7										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas	4.5	390	20.1	6.0	155	25.9	44.2	132	14.7	0.91	0.5	14	1.4		456	42.8	80.0	8.9	35.5	6.6	5.6	0.9	4.9
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 923 (4 Acid) Meas	4.3	332	19.3	8.1	148	23.7	42.7	131	14.0	1.06	0.5	13	1.2		435	40.1	82.7	8.9	34.4	6.8	5.6	0.8	4.7
OREAS 923 (4 Acid) Cert	6.54	345	20.3	7.61	166	26.4	43.0	116	14.1	0.930	0.520	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	0.850	5.05
OREAS 621 (4 Acid) Meas	5.3	> 10000	34.1	78.6	90.7	13.2	66.2	187	9.7	14.1	1.7	6	16.9			19.2	47.4						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 621 (4 Acid) Meas	3.9	> 10000	20.9	67.2	77.9	11.8	76.5	181	10.0	13.4	1.7	6	60.1			21.0	49.9						0.5
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6						0.460
OREAS 520 (4 Acid) Meas	0.6	17.9	18.7	112	107	19.8	93.7	139	2.0	57.2	0.1	4	0.9	< 0.1		73.3	74.7	6.0	20.7	3.9	4.0	0.6	3.5
OREAS 520 (4 Acid) Cert	1.76	22.7	18.7	153	111	20.8	104	134	5.68	65.0	0.110	4.76	3.21	0.360		85.0	86.0	6.69	22.1	4.02	4.08	0.640	3.66
OREAS 520 (4 Acid) Meas	< 0.1	17.5	18.4	70.9	104	18.9	85.8	137	0.5	44.6	0.1	4	1.2	< 0.1		65.0	75.4	6.1	21.1	3.8	3.9	0.6	3.8
OREAS 520 (4 Acid) Cert	1.76	22.7	18.7	153	111	20.8	104	134	5.68	65.0	0.110	4.76	3.21	0.360		85.0	86.0	6.69	22.1	4.02	4.08	0.640	3.66
787698 Orig																							
787698 Dup																							
787708 Orig																							
787708 Dup																							
787713 Orig																							
787713 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.2	< 0.2	< 0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6050		0.2	1.0	0.1	0.6	37.3		3.02	47.4	8	20.3	5.5	0.263	0.132	1.77
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	5860		0.2	1.1	0.1	0.6	34.5		3.07	51.4		22.6	5.9			
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0		22.5	6.20			
SDC-1 Meas	32.2		0.5	3.4		< 0.1	< 0.1		0.63	23.5	16	11.8	2.7	0.101	0.055	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	33.6		0.5	3.4		< 0.1	< 0.1		0.63	25.5		12.5	2.9			
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
GXR-6 Meas	73.9			1.8	0.3	< 0.1	< 0.1		2.16	96.4		5.1	1.5			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
GXR-6 Meas	74.7			1.8	0.2	< 0.1	0.3		2.19	106		5.5	1.5			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									140						
OREAS 97 (4 Acid) Cert	63100.00									147						
OREAS 98 (4 Acid) Meas	> 10000									306						14.9
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
DNC-1a Meas	96.3			2.0						5.7	32			0.268		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	105			2.0						6.4						
DNC-1a Cert	100			2.0						6.3						
SBC-1 Meas	32.3		0.5	3.5	0.4	1.0	1.7		0.89	35.4	22	15.8	5.8	0.481		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	36.4		0.5	3.4	0.5	1.1	1.6		0.91	37.6		16.5	6.0			
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas	353			1.5	0.2	< 0.1	< 0.1		0.26	21.1	57	14.1	2.8	0.320	0.036	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	376			1.4	0.2	< 0.1	0.1		0.24	21.2		13.7	2.8			
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									93.1						4.10
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									96.2						4.25

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Acid) Meas																
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									96.4						
OREAS 96 (4 Acid) Cert	39300									101						
OREAS 923 (4 Acid) Meas	4270		0.4	2.7	0.4	1.1	4.6		0.87	83.4	14	16.7	3.2	0.410	0.064	0.71
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0	13.1	16.5	3.06	0.405	0.0630	0.691
OREAS 923 (4 Acid) Meas	4400		0.4	2.7	0.4	1.2	4.7		0.89	93.8		17.5	3.4			
OREAS 923 (4 Acid) Cert	4230		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas	3790			1.1	0.1		2.3		2.05	> 5000	7	4.3	2.8	0.182	0.036	4.52
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3390			1.0	0.2		2.3		2.07	> 5000		6.4	3.0			
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600		7.48	2.83			
OREAS 520 (4 Acid) Meas	2710		0.3	2.2	0.3	< 0.1	9.6	0.030	0.26	5.8	18	9.2	18.2	0.419	0.070	0.94
OREAS 520 (4 Acid) Cert	2930		0.310	2.20	0.340	0.470	43.8	0.0310	0.260	5.85	17.0	9.62	17.9	0.445	0.0740	1.01
OREAS 520 (4 Acid) Meas	2880		0.3	2.2	0.3	< 0.1	2.3	0.028	0.25	6.0		7.0	18.8			
OREAS 520 (4 Acid) Cert	2930		0.310	2.20	0.340	0.470	43.8	0.0310	0.260	5.85		9.62	17.9			
787698 Orig																
787698 Dup																
787708 Orig																
787708 Dup																
787713 Orig																
787713 Dup																
Method Blank																
Method Blank																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	< 0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	1.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01



**Date Submitted:** 14-Mar-19  
**Invoice No.:** A19-03934  
**Invoice Date:** 29-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

37 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-03934**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 14-Mar-19  
**Invoice No.:** A19-03934  
**Invoice Date:** 29-Mar-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

37 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-03934**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787673	5																						
787674	< 5																						
787675	< 5																						
787676	< 5																						
787677	< 5																						
787678	< 5																						
787679	< 5																						
787680	< 5																						
787681	< 5	58.5	1.01	1.48	7.57	0.26	2.75	0.2	57	54	436	3.72	3.7	20	33.9	0.8	0.4	0.3	0.09	5.03	22.1	0.61	0.03
787682	< 5	27.5	1.12	1.26	7.58	0.98	1.78	0.3	59	44	325	3.50	3.8	30	29.8	0.8	0.8	0.3	0.21	9.67	30.9	0.67	0.13
787683	< 5																						
787684	< 5																						
787685	< 5																						
787686	< 5																						
787687	< 5																						
787688	< 5																						
787689	< 5																						
787690	3370																						
787691	< 5																						
787692	< 5																						
787693	< 5																						
787700	< 5																						
787701	< 5																						
787702	< 5																						
787703	< 5																						
787704	< 5																						
787717	< 5																						
787718	< 5																						
787719	< 5																						
787720	< 5																						
787721	< 5																						
787722	< 5																						
787723	< 5																						
787724	< 5																						
787725	< 5																						
787726	< 5																						
787727	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787673																							
787674																							
787675																							
787676																							
787677																							
787678																							
787679																							
787680																							
787681	0.2	168	20.7	< 0.1	11.2	8.2	105	149	2.9	2.25	0.1	1	< 0.1	< 0.1	107	13.4	30.4	3.4	14.7	2.5	2.1	0.3	1.6
787682	1.0	179	14.2	< 0.1	31.0	7.4	199	142	2.9	2.31	0.1	2	< 0.1	0.1	361	16.0	34.9	3.8	16.0	2.6	2.3	0.3	1.6
787683																							
787684																							
787685																							
787686																							
787687																							
787688																							
787689																							
787690																							
787691																							
787692																							
787693																							
787700																							
787701																							
787702																							
787703																							
787704																							
787717																							
787718																							
787719																							
787720																							
787721																							
787722																							
787723																							
787724																							
787725																							
787726																							
787727																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787673																
787674																
787675																
787676																
787677																
787678																
787679																
787680																
787681	121	< 0.1	0.1	0.9	0.1	0.2	0.7	0.002	0.15	3.5	10	2.2	0.7	0.215	0.039	0.12
787682	306	0.1	0.1	0.9	0.1	0.1	0.4	0.003	0.41	6.9	11	2.4	0.6	0.230	0.037	0.48
787683																
787684																
787685																
787686																
787687																
787688																
787689																
787690																
787691																
787692																
787693																
787700																
787701																
787702																
787703																
787704																
787717																
787718																
787719																
787720																
787721																
787722																
787723																
787724																
787725																
787726																
787727																



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		12.3	0.53	1.80	8.08	2.17	0.98	0.2	86	64	163	3.05	1.4	< 10	38.7		1.9		3.39	2.44	13.1	1.33	19.0
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		35.9	1.64	1.08	8.94	2.23	1.04		56	59	882	4.84	1.2	50	36.4	3.4	3.0	1.3		3.68	18.3	1.52	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		35.6	0.10	0.64	> 10.0	1.73	0.17	0.1	149	56	1070	5.76	2.3	80	25.5		1.1		0.31	3.97	14.1	0.65	0.19
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																			19.6		65.8		39.5
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			45.3		124		88.0
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas		160						0.4	203	106			3.4		83.6	3.4	3.1	1.3		7.63	22.2	1.82	0.70
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		20.3	0.09	0.19	7.92	0.41	0.19		88	518	477	14.2	1.4		229	1.3	0.8	0.5		3.48	28.5	0.55	0.31
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1180																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																			11.1		50.0		26.9
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 215 (Fire Assay) Meas	3350																						
OREAS 215 (Fire Assay) Cert	3540																						
787682 Orig	< 5																						
787682 Dup	5																						
787692 Orig	< 5																						
787692 Dup	< 5																						
787720 Orig	< 5																						
787720 Dup	< 5																						
787726 Orig	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787726 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	10	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	5.5	74.1	19.5	113	111	13.0	218	51	8.8	301	0.2	7	4.4	0.8	251	54.6	95.9		40.4	6.3	4.7	0.5	2.5
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		116	15.7	< 0.1	111		174	43	0.4			< 1	< 0.1		656	38.7	82.4		39.1	6.5	6.8	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	0.2	150	11.6	305	79.6	12.3	36.2	85	0.6	0.98	< 0.1	< 1	0.3	< 0.1	1240	13.2	35.6		12.9	2.5	2.4	0.4	2.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	78.0	676										97	8.2										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	177	1470										> 200	9.8										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas		200	15.1	25.6	138	29.5	182	121	15.3	2.35		3	1.1		814	48.9	95.5	11.4	47.0	10.0	7.9	1.2	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		44.1	23.9	8.5	42.6	10.7	32.7	54	0.7	0.36	< 0.1	< 1	< 0.1		187	17.1	35.9	3.5	13.8	3.2	2.3	0.4	2.1
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	44.1	471										65	5.4										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
787682 Orig																							
787682 Dup																							
787692 Orig																							
787692 Dup																							
787720 Orig																							
787720 Dup																							
787726 Orig																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787726 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6090		0.2	1.0	0.1	0.5	36.7		3.01	47.3	8	20.0	5.5	0.264	0.128	1.76
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	33.6		0.5	3.3		< 0.1	0.1		0.62	23.6	17	11.4	2.6	0.211	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	75.6			1.8	0.2	< 0.1	0.2		2.17	97.2	29	5.2	1.4		0.037	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
OREAS 97 (4 Acid) Meas	> 10000									133						6.82
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									303						16.0
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
DNC-1a Meas											32			0.262		
DNC-1a Cert											31			0.29		
SBC-1 Meas	37.7		0.5	3.5	0.5	1.0	1.7		0.89	35.2	21	15.6	5.6	0.489		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	370			1.4	0.2	< 0.1	< 0.1		0.26	20.7	57	14.6	2.7	0.154	0.037	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									93.6						4.21
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
787682 Orig																
787682 Dup																
787692 Orig																
787692 Dup																
787720 Orig																
787720 Dup																
787726 Orig																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787726 Dup																
Method Blank																
Method Blank																
Method Blank																
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



**Date Submitted:** 21-Mar-19  
**Invoice No.:** A19-04350  
**Invoice Date:** 15-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

71 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-04350**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 21-Mar-19  
**Invoice No.:** A19-04350  
**Invoice Date:** 15-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

71 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-04350**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787728	6																						
787729	< 5																						
787730	6620																						
787731	< 5																						
787732	< 5																						
787733	11																						
787734	< 5																						
787735	< 5																						
787736	6																						
787737	11																						
787738	9																						
787739	< 5	22.9	2.14	3.48	7.75	0.27	5.49	0.2	199	107	1630	11.1	1.4	40	43.8	4.0	0.6	1.3	0.10	0.98	44.0	1.30	0.48
787740	< 5																						
787741	46																						
787742	10																						
787743	< 5																						
787744	< 5																						
787745	5																						
787746	< 5																						
787747	< 5																						
787748	< 5																						
787749	< 5																						
787750	3470																						
787751	< 5																						
787752	< 5																						
787753	< 5																						
787754	< 5																						
787755	< 5																						
787756	< 5																						
787757	< 5																						
787758	< 5																						
787759	< 5																						
787760	< 5																						
787761	< 5																						
787762	< 5																						
787763	8																						
787764	7																						
787765	< 5																						
787766	< 5																						
787767	< 5																						
787768	< 5																						
787769	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787770	5380																						
787771	5																						
787772	5																						
787773	< 5																						
787774	5																						
787775	5																						
787776	< 5																						
787777	< 5																						
787778	< 5																						
787779	< 5																						
787780	< 5																						
787781	< 5																						
787782	< 5																						
787783	< 5																						
787784	< 5																						
787785	< 5																						
787786	< 5																						
787787	< 5																						
787788	< 5																						
787789	< 5																						
787790	6540																						
787791	< 5																						
787792	< 5																						
787793	< 5																						
787794	< 5																						
787795	< 5																						
787796	< 5																						
787797	< 5																						
787798	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787728																							
787729																							
787730																							
787731																							
787732																							
787733																							
787734																							
787735																							
787736																							
787737																							
787738																							
787739	1.0	141	20.4	< 0.1	11.3	35.6	147	53	1.0	0.64	< 0.1	< 1	< 0.1	< 0.1	39	8.6	22.6	3.0	14.9	4.1	5.4	0.9	6.4
787740																							
787741																							
787742																							
787743																							
787744																							
787745																							
787746																							
787747																							
787748																							
787749																							
787750																							
787751																							
787752																							
787753																							
787754																							
787755																							
787756																							
787757																							
787758																							
787759																							
787760																							
787761																							
787762																							
787763																							
787764																							
787765																							
787766																							
787767																							
787768																							
787769																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787770																							
787771																							
787772																							
787773																							
787774																							
787775																							
787776																							
787777																							
787778																							
787779																							
787780																							
787781																							
787782																							
787783																							
787784																							
787785																							
787786																							
787787																							
787788																							
787789																							
787790																							
787791																							
787792																							
787793																							
787794																							
787795																							
787796																							
787797																							
787798																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787728																
787729																
787730																
787731																
787732																
787733																
787734																
787735																
787736																
787737																
787738																
787739	117	0.4	0.6	4.0	0.6	< 0.1	0.2	0.001	0.10	5.7	43	0.7	0.2	0.540	0.065	0.26
787740																
787741																
787742																
787743																
787744																
787745																
787746																
787747																
787748																
787749																
787750																
787751																
787752																
787753																
787754																
787755																
787756																
787757																
787758																
787759																
787760																
787761																
787762																
787763																
787764																
787765																
787766																
787767																
787768																
787769																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787770																
787771																
787772																
787773																
787774																
787775																
787776																
787777																
787778																
787779																
787780																
787781																
787782																
787783																
787784																
787785																
787786																
787787																
787788																
787789																
787790																
787791																
787792																
787793																
787794																
787795																
787796																
787797																
787798																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		13.0	0.56	1.69	7.88	3.97	0.98	0.2	87	44	174	3.12	1.4	100	39.1		2.1		3.52	2.64	13.2	1.37	20.1
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		36.4	1.68	1.02	8.49	2.57	1.04		50	57	911	4.98	1.2	50	37.1	3.5	3.0	1.2		4.02	18.5	1.50	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		37.5	0.10	0.64	> 10.0	2.03	0.16	0.1	141	70	1150	6.31	2.3	50	26.7		1.2		0.35	4.44	14.9	0.66	0.21
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																			18.8		64.0		40.6
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			46.0		136		88.0
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas		174						0.3	217	119			3.4		91.0	3.4	3.3	1.2		8.09	23.9	1.80	0.74
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		20.7	0.10	0.19	7.78	0.39	0.17		66	494	481	14.3	1.2		224	1.3	0.8	0.4		3.61	28.0	0.56	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1190																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																			11.0		48.4		28.4
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 215 (Fire Assay) Meas	3530																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3480																						
OREAS 215 (Fire Assay) Cert	3540																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 215 (Fire Assay) Meas	3480																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3530																						
OREAS 215 (Fire Assay) Cert	3540																						
787737 Orig	11																						
787737 Dup	10																						
787739 Orig		22.7	2.15	3.44	7.64	0.26	5.42	0.2	195	106	1620	10.9	1.4	40	43.5	4.0	0.7	1.3	0.10	0.95	43.4	1.28	0.47
787739 Dup		23.1	2.14	3.51	7.86	0.28	5.55	0.2	204	108	1650	11.3	1.4	30	44.1	4.0	0.6	1.3	0.10	1.01	44.5	1.33	0.49
787747 Orig	< 5																						
787747 Dup	< 5																						
787757 Orig	< 5																						
787757 Dup	< 5																						
787772 Orig	5																						
787772 Dup	5																						
787777 Orig	< 5																						
787777 Split PREP DUP	< 5																						
787781 Orig	< 5																						
787781 Dup	< 5																						
787791 Orig	< 5																						
787791 Dup	< 5																						
787798 Orig	< 5																						
787798 Dup	< 5																						
Method Blank																							
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	2	6	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 5																						



Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	6.3	72.5	18.0	106	141	13.1	215	49	9.8	303	0.2	7	4.1	0.8	172	56.6	103		41.2	5.6	4.5	0.5	2.7
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		111	20.3	< 0.1	114		177	46	< 0.1			< 1	< 0.1		626	40.8	87.5		40.6	7.3	6.9	1.0	6.0
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	1.1	147	23.4	298	86.4	12.9	38.8	83	0.5	1.28	< 0.1	1	1.2	< 0.1	1220	13.7	38.5		13.3	2.6	2.4	0.4	2.6
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	70.2	637										89	7.3										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	182	1570										189	6.5										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas		213	22.5	27.5	129	29.9	186	129	16.3	2.44		4	1.0		740	46.7	97.7	11.5	47.4	8.7	7.7	1.1	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		44.0	19.3	6.5	42.0	10.9	31.8	51	0.3	0.53	< 0.1	< 1	< 0.1		176	16.4	36.3	3.6	13.2	2.7	2.4	0.4	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	41.2	442										62	4.8										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							
787737 Orig																							
787737 Dup																							
787739 Orig	1.0	139	20.1	< 0.1	11.2	34.8	145	52	0.8	0.62	< 0.1	< 1	< 0.1	< 0.1	38	8.4	22.2	3.0	14.7	4.1	5.4	0.9	6.3
787739 Dup	1.0	144	20.8	< 0.1	11.5	36.3	149	53	1.2	0.67	0.1	< 1	< 0.1	< 0.1	40	8.7	23.0	3.1	15.1	4.0	5.5	0.9	6.4
787747 Orig																							
787747 Dup																							
787757 Orig																							
787757 Dup																							
787772 Orig																							
787772 Dup																							
787777 Orig																							
787777 Split PREP DUP																							
787781 Orig																							
787781 Dup																							
787791 Orig																							
787791 Dup																							
787798 Orig																							
787798 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.6	0.5	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.18	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6380		0.2	1.1	0.1	0.6	36.8		3.32	50.6	8	19.6	6.1	0.262	0.131	1.80
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	38.2		0.5	3.4		< 0.1	< 0.1		0.64	25.1	15	11.9	2.9	0.156	0.055	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	90.3			1.8	0.3	< 0.1	0.2		2.37	107		5.7	1.7			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									136						6.76
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									300						15.6
OREAS 98 (4 Acid) Cert	14800.0.0									345						15.5
DNC-1a Meas											30			0.267		
DNC-1a Cert											31			0.29		
SBC-1 Meas	40.2		0.5	3.4	0.5	1.1	1.8		0.95	37.7	20	14.3	6.0	0.482		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	395			1.5	0.2	< 0.1	0.2		0.27	21.7	54	14.1	2.9	0.124	0.035	0.04
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									97.0						4.10
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																
787737 Orig																
787737 Dup																
787739 Orig	114	0.4	0.6	4.0	0.6	< 0.1	0.2	0.002	0.10	5.7	43	0.7	0.2	0.528	0.064	0.25
787739 Dup	120	0.4	0.6	4.0	0.6	< 0.1	0.2	0.001	0.09	5.7	44	0.7	0.2	0.551	0.065	0.26
787747 Orig																
787747 Dup																
787757 Orig																
787757 Dup																
787772 Orig																
787772 Dup																
787777 Orig																
787777 Split PREP DUP																
787781 Orig																
787781 Dup																
787791 Orig																
787791 Dup																
787798 Orig																
787798 Dup																
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank																
Method Blank																
Method Blank																
Method Blank	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	0.06	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank																



**Date Submitted:** 04-Apr-19  
**Invoice No.:** A19-05036  
**Invoice Date:** 28-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

95 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05036**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 04-Apr-19  
**Invoice No.:** A19-05036  
**Invoice Date:** 28-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

95 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-05036**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-05036

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787799	< 5																						
787800	< 5																						
787801	< 5																						
787802	7																						
787803	< 5																						
787804	18																						
787805	< 5																						
787806	< 5																						
787807	< 5																						
787808	< 5	25.9	0.97	2.52	6.62	0.76	6.54	3.6	179	173	2110	8.62	1.2	30	99.8	1.5	0.6	0.5	0.25	4.69	46.3	0.87	0.36
787809	< 5																						
787810	3460																						
787811	< 5																						
787812	< 5																						
787813	< 5																						
787814	< 5																						
787815	< 5	23.6	0.87	2.34	5.86	0.91	4.69	0.3	169	98	995	10.9	1.0	50	46.6	2.8	0.8	1.0	0.26	2.34	43.7	1.11	1.29
787816	< 5																						
787817	< 5																						
787818	< 5	40.8	1.73	1.25	6.94	1.17	2.24	5.1	185	196	977	8.13	2.0	100	105	2.0	0.5	0.7	0.39	2.67	101	1.13	0.77
787819	< 5																						
787820	< 5																						
787821	< 5																						
787822	< 5																						
787823	< 5	28.4	1.79	1.65	6.25	0.93	3.28	5.4	113	85	801	7.90	1.9	60	44.4	1.6	0.6	0.6	0.35	6.95	129	0.93	1.32
787824	< 5																						
787825	< 5																						
787826	< 5	21.4	1.00	2.11	5.70	0.43	5.55	2.6	83	51	1070	8.46	1.8	40	46.9	1.9	0.6	0.7	0.51	2.50	40.9	0.96	1.33
787827	< 5																						
787828	< 5																						
787829	< 5																						
787830	5360																						
787831	< 5																						
787832	< 5																						
787833	< 5																						
787834	< 5																						
787835	< 5																						
787836	< 5																						
787837	< 5																						
787838	< 5																						
787839	< 5																						
787840	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787841	< 5																						
787842	< 5																						
787843	< 5																						
787844	< 5																						
787868	< 5																						
787869	< 5																						
787870	6210																						
787871	< 5																						
787845	5																						
787846	< 5																						
787847	< 5																						
787848	< 5																						
787849	< 5	48.8	2.44	2.33	8.38	1.21	6.27	< 0.1	122	113	961	5.17	2.2	40	77.5	1.4	1.1	0.5	0.06	7.36	28.0	1.33	0.19
787850	3370																						
787851	< 5																						
787852	< 5	39.2	0.84	1.20	6.27	1.01	4.17	< 0.1	56	54	438	2.51	2.4	40	16.8	0.6	0.5	0.2	0.06	3.10	11.2	0.70	0.08
787853	< 5																						
787854	22	45.9	1.14	3.09	5.21	0.34	5.60	1.9	72	113	514	8.74	2.1	30	99.1	0.8	0.4	0.3	1.31	2.68	223	0.81	0.55
787855	< 5																						
787856	< 5																						
787857	5																						
787858	< 5																						
787859	< 5																						
787860	< 5																						
787861	< 5																						
787862	< 5																						
787863	< 5																						
787864	< 5																						
787865	< 5																						
787866	< 5																						
787867	5																						
787872	< 5																						
787873	< 5																						
787874	< 5																						
787875	< 5																						
787876	< 5																						
787877	< 5																						
787878	< 5																						
787879	< 5																						
787880	< 5																						
787881	< 5																						
787882	< 5																						



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787883	< 5																						
787884	< 5																						
787885	< 5																						
787886	< 5																						
787887	118																						
787888	11																						
787889	8																						
787890	5410																						
787891	< 5																						
787892	< 5																						
787893	< 5																						

Results

Activation Laboratories Ltd.

Report: A19-05036

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787799																							
787800																							
787801																							
787802																							
787803																							
787804																							
787805																							
787806																							
787807																							
787808	2.2	1710	16.4	< 0.1	34.9	12.7	290	46	1.8	1.22	0.4	4	< 0.1	0.3	264	9.7	22.6	2.9	12.9	2.6	2.7	0.4	2.4
787809																							
787810																							
787811																							
787812																							
787813																							
787814																							
787815	1.1	165	16.3	< 0.1	42.3	24.4	105	35	0.3	1.07	0.1	1	< 0.1	< 0.1	115	8.5	21.1	2.9	12.9	3.3	4.1	0.7	4.3
787816																							
787817																							
787818	3.1	2740	21.6	< 0.1	49.1	17.2	115	76	3.9	4.68	0.7	7	0.1	0.7	124	8.8	22.2	3.0	13.6	3.4	3.3	0.5	3.5
787819																							
787820																							
787821																							
787822																							
787823	3.8	2520	18.9	< 0.1	37.7	13.5	205	70	3.5	2.90	0.8	6	< 0.1	0.9	90	11.1	25.8	3.2	13.2	2.4	2.9	0.4	2.5
787824																							
787825																							
787826	3.3	1210	16.2	< 0.1	23.1	17.6	105	73	4.3	3.61	0.4	3	< 0.1	0.7	85	14.2	31.9	3.9	15.7	3.6	3.3	0.5	3.1
787827																							
787828																							
787829																							
787830																							
787831																							
787832																							
787833																							
787834																							
787835																							
787836																							
787837																							
787838																							
787839																							
787840																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787841																							
787842																							
787843																							
787844																							
787868																							
787869																							
787870																							
787871																							
787845																							
787846																							
787847																							
787848																							
787849	< 0.1	75.7	13.2	< 0.1	56.2	13.3	673	82	0.8	0.60	< 0.1	< 1	< 0.1	< 0.1	733	27.6	59.9	6.9	28.5	4.4	3.7	0.5	2.4
787850																							
787851																							
787852	0.1	36.9	11.8	< 0.1	37.8	5.4	133	99	2.5	2.06	< 0.1	< 1	< 0.1	< 0.1	193	10.9	21.9	2.3	8.7	1.5	1.5	0.2	1.1
787853																							
787854	8.9	717	15.2	< 0.1	18.0	8.8	100	77	2.7	2.58	0.3	4	< 0.1	1.6	39	8.4	19.6	2.3	9.6	2.0	1.9	0.3	1.5
787855																							
787856																							
787857																							
787858																							
787859																							
787860																							
787861																							
787862																							
787863																							
787864																							
787865																							
787866																							
787867																							
787872																							
787873																							
787874																							
787875																							
787876																							
787877																							
787878																							
787879																							
787880																							
787881																							
787882																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787883																							
787884																							
787885																							
787886																							
787887																							
787888																							
787889																							
787890																							
787891																							
787892																							
787893																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787799																
787800																
787801																
787802																
787803																
787804																
787805																
787806																
787807																
787808	381	1.4	0.2	1.4	0.2	< 0.1	0.5	0.003	0.43	15.2	28	1.3	0.3	0.400	0.048	1.33
787809																
787810																
787811																
787812																
787813																
787814																
787815	297	0.2	0.4	2.9	0.4	< 0.1	< 0.1	0.004	0.36	5.7	30	1.1	0.3	0.340	0.051	2.13
787816																
787817																
787818	165	0.2	0.3	2.1	0.3	0.3	12.5	0.004	0.64	28.7	29	1.2	0.3	0.575	0.071	3.31
787819																
787820																
787821																
787822																
787823	222	0.2	0.2	1.6	0.2	0.2	2.0	0.003	0.46	22.2	15	1.8	0.5	0.399	0.046	2.79
787824																
787825																
787826	636	0.9	0.3	2.1	0.3	0.3	0.8	0.003	0.28	10.4	13	2.4	0.6	0.295	0.036	2.39
787827																
787828																
787829																
787830																
787831																
787832																
787833																
787834																
787835																
787836																
787837																
787838																
787839																
787840																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787841																
787842																
787843																
787844																
787868																
787869																
787870																
787871																
787845																
787846																
787847																
787848																
787849	44.2	0.3	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.39	9.4	20	5.3	1.3	0.290	0.072	0.12
787850																
787851																
787852	30.7	< 0.1	< 0.1	0.5	< 0.1	0.2	1.4	< 0.001	0.23	3.0	10	2.1	0.5	0.169	0.026	0.07
787853																
787854	1390	< 0.1	0.1	0.9	0.1	0.3	0.5	0.005	0.14	8.7	10	1.7	1.1	0.148	0.027	3.31
787855																
787856																
787857																
787858																
787859																
787860																
787861																
787862																
787863																
787864																
787865																
787866																
787867																
787872																
787873																
787874																
787875																
787876																
787877																
787878																
787879																
787880																
787881																
787882																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787883																
787884																
787885																
787886																
787887																
787888																
787889																
787890																
787891																
787892																
787893																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
GXR-4 Meas		10.6	0.53	1.67	6.81	3.30	0.96	0.3	84	36	149	2.98	1.3	140	38.3		2.1		3.57	2.55	14.1	1.48	17.5	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
SDC-1 Meas		32.7	1.55	1.01	8.16	2.77	0.98		27	42	818	4.69	0.7	50	35.0		3.4	2.8	1.2		3.84	17.1	1.50	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0		4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		36.3	0.11	0.63	> 10.0	1.85	0.17	< 0.1	115	41	1010	5.34	2.0	100	24.0		1.0			0.30	4.09	13.4	0.68	0.17
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40			1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																				19.4		64.1		38.3
OREAS 97 (4 Acid) Cert																				19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																				44.0		127		90.8
OREAS 98 (4 Acid) Cert																				45.1		121		97.2
DNC-1a Meas		4.3	1.41				7.75		142	144		6.92			259							56.5	0.56	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247							57	0.59	
SBC-1 Meas		168						0.3	213	75			3.4		83.8	3.6	3.3	1.2		8.12	23.1	1.86	0.63	
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas		21.2	0.10	0.24	8.22	0.42	0.18		127	525	496	14.6	2.9		233	1.3	0.8	0.5		3.80	30.6	0.62	0.30	
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 222 (Fire Assay) Meas	1180																							
OREAS 222 (Fire Assay) Cert	1220																							
OREAS 222 (Fire Assay) Meas	1190																							
OREAS 222 (Fire Assay) Cert	1220																							
OREAS 222 (Fire Assay) Meas	1170																							
OREAS 222 (Fire Assay) Cert	1220																							
OREAS 96 (4 Acid) Meas																				10.9		49.8		26.0
OREAS 96 (4 Acid) Cert																				11.5		49.9		26.3
OREAS 923 (4 Acid) Meas																								
OREAS 923 (4 Acid) Cert																								
OREAS 621 (4 Acid) Meas		13.5	1.37	0.51	6.72	2.19	1.92	275	31	23	491	3.74	4.5		27.2		1.7		65.8	3.24	28.5		3.72	
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93	



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 520 (4 Acid) Meas		16.3	1.36	1.20	5.59	2.71	4.18		262	47	2540	17.0	3.6		77.6	2.3	1.1	0.7	0.44	0.77	214	1.32	2.87
OREAS 520 (4 Acid) Cert		16.9	1.35	1.19	5.63	3.46	4.10		257	36.4	2420	16.4	3.53		76.0	2.21	1.06	0.760	0.450	0.800	203	1.29	2.94
OREAS 255 (Fire Assay) Meas	3910																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4010																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	3920																						
OREAS 255 (Fire Assay) Cert	4080																						
787808 Orig	< 5																						
787808 Dup	6																						
787818 Orig	< 5																						
787818 Dup	< 5																						
787828 Orig	5																						
787828 Dup	< 5																						
787843 Orig	< 5																						
787843 Dup	< 5																						
787871 Orig	< 5																						
787871 Split PREP DUP	< 5																						
787848 Orig	< 5																						
787848 Dup	< 5																						
787854 Orig		45.3	1.13	3.08	5.17	0.34	5.54	1.9	70	112	516	8.71	2.1	20	99.6	0.8	0.4	0.3	1.30	2.67	222	0.79	0.54
787854 Dup		46.6	1.15	3.09	5.25	0.34	5.66	1.9	73	114	512	8.76	2.1	40	98.5	0.8	0.4	0.3	1.31	2.69	225	0.83	0.55
787877 Orig	< 5																						
787877 Dup	< 5																						
787880 Orig	< 5																						
787880 Dup	< 5																						
787887 Orig	115																						
787887 Dup	120																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	9	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	3	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	1	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	6.3	69.8	16.9	101	132	12.6	211	42	9.6	307	0.2	7	4.0	1.0	110	57.5	113		43.0	6.5	4.8	0.5	2.9
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		103	19.0	< 0.1	118		170	27	< 0.1			< 1	< 0.1		623	37.8	88.1		39.3	7.3	6.6	1.0	5.8
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	0.5	125	22.0	229	79.4	11.9	40.1	72	0.1	0.35	< 0.1	< 1	0.3	< 0.1	1450	12.4	34.1		12.9	2.4	2.2	0.4	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	77.4	627										88	7.4										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	183	1340										191	13.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		66.3	13.2		3.5	15.3	141	39	1.4				0.9	100	3.5				4.9				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96	118	3.6				5.20				
SBC-1 Meas		197	21.7	22.6	141	30.7	179	122	13.7	2.06		3	1.0	783	49.5	107	12.2	48.4	10.7	8.0	1.2	6.2	
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01	788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	
OREAS 45d (4-Acid) Meas		44.3	21.0	6.9	43.3	10.9	31.1	111	0.1	0.24	< 0.1	< 1	< 0.1	172	16.4	36.4	3.6	13.8	2.9	2.4	0.4	2.2	
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82	183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	46.4	449										60	4.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas	4.0	> 10000	24.5	57.0	82.4	12.1	65.5	180	9.2	12.6	1.8	5	19.2		18.8	46.2						0.5	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139		21.6	46.6						0.460	

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 520 (4 Acid) Meas	1.3	21.3	16.7	145	98.1	19.7	91.7	141	6.0	62.6	0.1	5	1.6	0.2		77.6	81.7	6.6	22.8	4.0	4.1	0.6	3.6
OREAS 520 (4 Acid) Cert	1.76	22.7	18.7	153	111	20.8	104	134	5.68	65.0	0.110	4.76	3.21	0.360		85.0	86.0	6.69	22.1	4.02	4.08	0.640	3.66
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
787808 Orig																							
787808 Dup																							
787818 Orig																							
787818 Dup																							
787828 Orig																							
787828 Dup																							
787843 Orig																							
787843 Dup																							
787871 Orig																							
787871 Split PREP DUP																							
787848 Orig																							
787848 Dup																							
787854 Orig	9.0	705	15.1	< 0.1	17.8	8.8	99.3	77	2.7	2.65	0.3	4	< 0.1	1.6	39	8.3	19.4	2.4	9.6	2.0	1.9	0.3	1.5
787854 Dup	8.8	728	15.2	< 0.1	18.2	8.7	101	77	2.8	2.51	0.3	4	< 0.1	1.6	40	8.5	19.7	2.3	9.6	2.0	1.9	0.3	1.4
787877 Orig																							
787877 Dup																							
787880 Orig																							
787880 Dup																							
787887 Orig																							
787887 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	0.2	< 1	< 0.1	0.14	< 0.1	< 1	0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	0.1	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6400		0.2	1.1	0.1	0.6	34.1		3.16	50.0	8	20.8	5.9	0.267	0.132	1.77
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	29.4		0.5	3.4		< 0.1	< 0.1		0.61	24.4	15	12.1	2.5	0.0692	0.053	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	65.3			1.7	0.2	< 0.1	< 0.1		2.11	99.6			5.3	1.4		
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101			5.30	1.54		
OREAS 97 (4 Acid) Meas	> 10000									144						6.56
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									336						14.7
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
DNC-1a Meas	92.8			2.0						7.3	31			0.254		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	31.3		0.5	3.4	0.5	0.9	1.5		0.90	35.7	21	16.7	5.8	0.463		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	366			1.5	0.2	< 0.1	< 0.1		0.25	21.4	55	15.6	2.8	0.269	0.037	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									99.0						4.23
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 923 (4 Acid) Meas											14			0.416	0.065	0.74
OREAS 923 (4 Acid) Cert											13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas	3470			1.1	0.1		2.0		2.04	> 5000	7	5.5	2.8	0.178	0.036	4.46
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 520 (4 Acid) Meas	2870		0.3	2.2	0.3	0.3	40.4	0.028	0.26	6.6	17	9.4	18.5	0.464	0.069	0.91
OREAS 520 (4 Acid) Cert	2930		0.310	2.20	0.340	0.470	43.8	0.0310	0.260	5.85	17.0	9.62	17.9	0.445	0.0740	1.01
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
787808 Orig																
787808 Dup																
787818 Orig																
787818 Dup																
787828 Orig																
787828 Dup																
787843 Orig																
787843 Dup																
787871 Orig																
787871 Split PREP DUP																
787848 Orig																
787848 Dup																
787854 Orig	1370	0.1	0.1	0.9	0.1	0.3	0.5	0.005	0.14	8.4	10	1.6	1.1	0.148	0.027	3.34
787854 Dup	1410	< 0.1	0.1	0.9	0.1	0.3	0.5	0.005	0.14	8.9	10	1.7	1.1	0.149	0.027	3.28
787877 Orig																
787877 Dup																
787880 Orig																
787880 Dup																
787887 Orig																
787887 Dup																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	<	< 0.001	< 0.01

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
														0.0005		
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.6	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank																





**Date Submitted:** 04-Apr-19  
**Invoice No.:** A19-05038  
**Invoice Date:** 28-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

31 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05038**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 04-Apr-19  
**Invoice No.:** A19-05038  
**Invoice Date:** 28-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

31 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-05038**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787894	< 5																						
787895	< 5	22.3	1.72	2.02	7.20	1.83	5.72	0.3	140	109	590	5.75	1.8	30	109	1.4	0.7	0.5	0.16	2.33	59.0	0.89	0.25
787896	< 5																						
787897	< 5																						
787898	19	22.3	1.22	2.23	6.68	0.71	4.02	9.6	161	181	851	6.84	1.7	60	95.3	1.5	0.5	0.5	0.39	2.50	63.2	0.65	0.75
787899	< 5																						
787900	< 5																						
787901	< 5																						
787902	5																						
787903	< 5																						
787904	< 5																						
787905	14	26.8	1.76	2.02	6.58	1.43	3.60	2.8	166	295	1120	10.7	1.6	70	179	1.8	0.8	0.6	0.74	2.94	52.6	1.37	0.94
787906	< 5																						
787907	< 5																						
787908	< 5	31.5	0.75	2.73	6.81	0.99	7.59	1.9	185	270	1750	9.57	0.7	50	110	3.5	0.6	1.2	0.25	2.07	48.0	1.43	0.93
787909	< 5																						
787910	3530																						
787911	< 5																						
787912	< 5																						
787913	< 5																						
787914	< 5																						
787915	< 5																						
787916	< 5																						
787917	< 5																						
787918	< 5																						
787919	< 5																						
787920	< 5																						
787921	< 5																						
787922	< 5																						
787923	< 5																						
787924	< 5																						

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787894																							
787895	5.8	271	20.8	< 0.1	45.5	13.5	209	70	3.9	3.71	< 0.1	2	< 0.1	0.4	308	9.2	21.5	2.7	11.4	2.6	2.4	0.4	2.3
787896																							
787897																							
787898	7.0	4350	20.7	< 0.1	24.8	13.5	87.8	61	2.9	3.96	1.0	6	< 0.1	1.3	137	7.4	17.2	2.2	9.2	2.4	2.3	0.4	2.5
787899																							
787900																							
787901																							
787902																							
787903																							
787904																							
787905	5.3	1420	17.4	< 0.1	44.4	16.0	259	59	3.1	2.05	0.5	5	0.2	0.6	71	20.0	45.6	5.7	24.9	4.8	3.8	0.5	3.1
787906																							
787907																							
787908	0.7	1180	18.3	< 0.1	35.4	28.2	155	22	0.7	0.43	0.4	3	< 0.1	< 0.1	262	9.0	23.4	3.4	15.9	4.1	4.8	0.8	5.1
787909																							
787910																							
787911																							
787912																							
787913																							
787914																							
787915																							
787916																							
787917																							
787918																							
787919																							
787920																							
787921																							
787922																							
787923																							
787924																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787894																
787895	218	0.2	0.2	1.6	0.2	0.3	0.6	0.006	0.30	9.0	20	2.6	0.6	0.361	0.041	0.93
787896																
787897																
787898	504	0.1	0.2	1.7	0.2	0.2	2.6	0.009	0.32	26.4	26	1.4	0.4	0.358	0.037	1.80
787899																
787900																
787901																
787902																
787903																
787904																
787905	445	< 0.1	0.2	1.7	0.2	0.2	2.7	0.003	0.86	19.5	27	2.9	0.8	0.379	0.107	5.23
787906																
787907																
787908	197	0.3	0.5	3.3	0.4	< 0.1	0.2	0.003	0.50	11.6	35	1.0	0.3	0.413	0.077	1.06
787909																
787910																
787911																
787912																
787913																
787914																
787915																
787916																
787917																
787918																
787919																
787920																
787921																
787922																
787923																
787924																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		10.6	0.53	1.67	6.81	3.30	0.96	0.3	84	36	149	2.98	1.3	140	38.3		2.1		3.57	2.55	14.1	1.48	17.5
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		32.7	1.55	1.01	8.16	2.77	0.98		27	42	818	4.69	0.7	50	35.0	3.4	2.8	1.2		3.84	17.1	1.50	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
GXR-6 Meas		36.3	0.11	0.63	> 10.0	1.85	0.17	< 0.1	115	41	1010	5.34	2.0	100	24.0		1.0		0.30	4.09	13.4	0.68	0.17
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																				19.4		64.1	38.3
OREAS 97 (4 Acid) Cert																				19.6		62.9	40.1
OREAS 98 (4 Acid) Meas																				44.0		127	90.8
OREAS 98 (4 Acid) Cert																				45.1		121	97.2
DNC-1a Meas		4.3	1.41				7.75		142	144		6.92			259							56.5	0.56
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247							57	0.59
SBC-1 Meas		168						0.3	213	75			3.4		83.8	3.6	3.3	1.2		8.12	23.1	1.86	0.63
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		21.2	0.10	0.24	8.22	0.42	0.18		127	525	496	14.6	2.9		233	1.3	0.8	0.5		3.80	30.6	0.62	0.30
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																				10.9		49.8	26.0
OREAS 96 (4 Acid) Cert																				11.5		49.9	26.3
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas		13.5	1.37	0.51	6.72	2.19	1.92	275	31	23	491	3.74	4.5		27.2		1.7		65.8	3.24	28.5		3.72
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 520 (4 Acid) Meas		16.3	1.36	1.20	5.59	2.71	4.18		262	47	2540	17.0	3.6		77.6	2.3	1.1	0.7	0.44	0.77	214	1.32	2.87
OREAS 520 (4 Acid) Cert		16.9	1.35	1.19	5.63	3.46	4.10		257	36.4	2420	16.4	3.53		76.0	2.21	1.06	0.760	0.450	0.800	203	1.29	2.94
OREAS 215 (Fire Assay) Meas	3520																						
OREAS 215 (Fire Assay) Cert	3540																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787898 Orig	24																						
787898 Dup	13																						
787908 Orig	< 5																						
787908 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	9	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	3	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	1	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	6.3	69.8	16.9	101	132	12.6	211	42	9.6	307	0.2	7	4.0	1.0	110	57.5	113		43.0	6.5	4.8	0.5	2.9
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		103	19.0	< 0.1	118		170	27	< 0.1			< 1	< 0.1		623	37.8	88.1		39.3	7.3	6.6	1.0	5.8
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
GXR-6 Meas	0.5	125	22.0	229	79.4	11.9	40.1	72	0.1	0.35	< 0.1	< 1	0.3	< 0.1	1450	12.4	34.1		12.9	2.4	2.2	0.4	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	77.4	627										88	7.4										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	183	1340										191	13.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
DNC-1a Meas		66.3	13.2		3.5	15.3	141	39	1.4				0.9		100	3.5			4.9				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		197	21.7	22.6	141	30.7	179	122	13.7	2.06		3	1.0		783	49.5	107	12.2	48.4	10.7	8.0	1.2	6.2
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		44.3	21.0	6.9	43.3	10.9	31.1	111	0.1	0.24	< 0.1	< 1	< 0.1		172	16.4	36.4	3.6	13.8	2.9	2.4	0.4	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	46.4	449										60	4.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas	4.0	> 10000	24.5	57.0	82.4	12.1	65.5	180	9.2	12.6	1.8	5	19.2		18.8	46.2						0.5	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139		21.6	46.6						0.460	
OREAS 520 (4 Acid) Meas	1.3	21.3	16.7	145	98.1	19.7	91.7	141	6.0	62.6	0.1	5	1.6	0.2	77.6	81.7	6.6	22.8	4.0	4.1	0.6	3.6	
OREAS 520 (4 Acid) Cert	1.76	22.7	18.7	153	111	20.8	104	134	5.68	65.0	0.110	4.76	3.21	0.360	85.0	86.0	6.69	22.1	4.02	4.08	0.640	3.66	
OREAS 215 (Fire Assay) Meas																							
OREAS 215 (Fire Assay) Cert																							



Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787898 Orig																							
787898 Dup																							
787908 Orig																							
787908 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	0.2	< 1	< 0.1	0.14	< 0.1	< 1	0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.1	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6400		0.2	1.1	0.1	0.6	34.1		3.16	50.0	8	20.8	5.9	0.267	0.132	1.77
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	29.4		0.5	3.4		< 0.1	< 0.1		0.61	24.4	15	12.1	2.5	0.0692	0.053	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	65.3			1.7	0.2	< 0.1	< 0.1		2.11	99.6			5.3	1.4		
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101			5.30	1.54		
OREAS 97 (4 Acid) Meas	> 10000									144						6.56
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									336						14.7
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
DNC-1a Meas	92.8			2.0						7.3	31			0.254		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	31.3		0.5	3.4	0.5	0.9	1.5		0.90	35.7	21	16.7	5.8	0.463		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	366			1.5	0.2	< 0.1	< 0.1		0.25	21.4	55	15.6	2.8	0.269	0.037	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									99.0						4.23
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 923 (4 Acid) Meas											14			0.416	0.065	0.74
OREAS 923 (4 Acid) Cert											13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas	3470			1.1	0.1		2.0		2.04	> 5000	7	5.5	2.8	0.178	0.036	4.46
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 520 (4 Acid) Meas	2870		0.3	2.2	0.3	0.3	40.4	0.028	0.26	6.6	17	9.4	18.5	0.464	0.069	0.91
OREAS 520 (4 Acid) Cert	2930		0.310	2.20	0.340	0.470	43.8	0.0310	0.260	5.85	17.0	9.62	17.9	0.445	0.0740	1.01
OREAS 215 (Fire Assay) Meas																
OREAS 215 (Fire Assay) Cert																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787898 Orig																
787898 Dup																
787908 Orig																
787908 Dup																
Method Blank																
Method Blank																
Method Blank	0.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	0.6	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



**Date Submitted:** 15-Apr-19  
**Invoice No.:** A19-05481  
**Invoice Date:** 22-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

85 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05481**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 15-Apr-19  
**Invoice No.:** A19-05481  
**Invoice Date:** 22-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

85 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-05481**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
786088	< 5																						
786089	< 5																						
786090	3520																						
786091	< 5																						
786092	< 5																						
786093	6																						
786094	< 5																						
786095	5																						
786096	< 5																						
786097	< 5																						
786098	< 5																						
786099	44																						
786100	< 5																						
786101	< 5																						
786102	< 5																						
786103	12																						
786104	< 5																						
786105	< 5																						
786106	31	0.6	< 0.01	0.01	0.05	< 0.01	0.02	< 0.1	1	1	7	0.06	< 0.1	< 10	0.9	< 0.1	< 0.1	< 0.1	< 0.05	0.06	0.5	< 0.05	< 0.02
786107	< 5																						
786108	< 5																						
786109	< 5																						
786110	6630																						
786111	< 5																						
784142	< 5																						
784143	< 5																						
784144	< 5																						
784145	< 5																						
784146	< 5																						
784147	< 5																						
784148	< 5																						
784149	< 5																						
784150	6420																						
784151	< 5																						
784152	< 5																						
784161	< 5																						
784162	< 5																						
784163	6																						
784164	< 5																						
784165	< 5																						
784166	< 5																						
784167	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
784168	< 5																						
784169	< 5																						
784170	3630																						
786112	< 5																						
786113	< 5																						
786114	< 5																						
786115	< 5																						
786116	11																						
786117	< 5																						
786118	< 5																						
786119	< 5																						
786120	< 5																						
786121	< 5																						
786122	< 5																						
786123	< 5																						
786124	< 5																						
786125	< 5																						
786126	< 5																						
786127	< 5																						
786128	6																						
786129	< 5																						
786130	5010																						
786131	< 5																						
786132	< 5																						
786133	< 5																						
786134	< 5																						
786135	< 5																						
786136	< 5																						
786137	< 5																						
786138	< 5																						
786139	< 5																						
786140	< 5																						
786141	< 5																						
786142	< 5																						
786143	< 5																						
784153	6																						
784154	9																						
784155	< 5																						
784156	< 5																						
784157	< 5																						
784158	< 5																						
784159	< 5																						

**Results**

**Activation Laboratories Ltd.**

**Report: A19-05481**

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
784160	3570																						



Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
786088																							
786089																							
786090																							
786091																							
786092																							
786093																							
786094																							
786095																							
786096																							
786097																							
786098																							
786099																							
786100																							
786101																							
786102																							
786103																							
786104																							
786105																							
786106	< 0.1	27.3	0.2	0.3	0.3	0.1	0.7	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
786107																							
786108																							
786109																							
786110																							
786111																							
784142																							
784143																							
784144																							
784145																							
784146																							
784147																							
784148																							
784149																							
784150																							
784151																							
784152																							
784161																							
784162																							
784163																							
784164																							
784165																							
784166																							
784167																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
784168																							
784169																							
784170																							
786112																							
786113																							
786114																							
786115																							
786116																							
786117																							
786118																							
786119																							
786120																							
786121																							
786122																							
786123																							
786124																							
786125																							
786126																							
786127																							
786128																							
786129																							
786130																							
786131																							
786132																							
786133																							
786134																							
786135																							
786136																							
786137																							
786138																							
786139																							
786140																							
786141																							
786142																							
786143																							
784153																							
784154																							
784155																							
784156																							
784157																							
784158																							
784159																							

**Results****Activation Laboratories Ltd.****Report: A19-05481**

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
784160																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
786088																
786089																
786090																
786091																
786092																
786093																
786094																
786095																
786096																
786097																
786098																
786099																
786100																
786101																
786102																
786103																
786104																
786105																
786106	5.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	29	< 0.1	< 0.1	0.355	0.025	1.36
786107																
786108																
786109																
786110																
786111																
784142																
784143																
784144																
784145																
784146																
784147																
784148																
784149																
784150																
784151																
784152																
784161																
784162																
784163																
784164																
784165																
784166																
784167																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
784168																
784169																
784170																
786112																
786113																
786114																
786115																
786116																
786117																
786118																
786119																
786120																
786121																
786122																
786123																
786124																
786125																
786126																
786127																
786128																
786129																
786130																
786131																
786132																
786133																
786134																
786135																
786136																
786137																
786138																
786139																
786140																
786141																
786142																
786143																
784153																
784154																
784155																
784156																
784157																
784158																
784159																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
784160																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
GXR-4 Meas		10.9	0.53	1.66	6.29	4.18	1.00	0.3	87	50	160	3.12	1.3	< 10	42.3		1.8		3.71	2.69	14.1	1.37	18.9	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
GXR-4 Meas		14.3	0.58	1.84	9.48	4.74	1.08	0.3	90	52	177	3.30	1.4	< 10	41.2		2.2		3.53	2.53	15.3	1.50	18.7	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
GXR-4 Meas		11.0	0.51	1.69	6.84	3.82	1.02	0.2	85	46	151	3.12	1.3	130	39.7		2.0		3.57	2.66	13.5	1.62	19.7	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
GXR-4 Meas		11.7	0.55	1.83	6.97	4.44	1.03	0.2	92	52	169	3.14	1.3	< 10	42.5		2.2		3.89	2.67	14.3	1.38	18.8	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
GXR-4 Meas		12.6	0.49	1.73	7.76	4.20	1.04	0.3	87	44	162	3.00	1.4	< 10	40.7		2.1		3.67	2.65	13.9	1.36	19.6	
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	
SDC-1 Meas		33.6	1.51	1.04	8.40	2.75	1.09		41	51	905	5.17	1.0	30	36.1	3.3	2.8	1.2		4.17	18.8	1.43		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		37.4	1.62	1.07	9.50	2.45	1.05		35	57	925	4.97	0.8	50	36.1	3.4	3.0	1.2		3.82	18.7	1.68		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		36.0	1.55	1.02	8.99	2.30	1.04		38	48	875	4.93	0.9	90	35.8	3.4	3.0	1.2		3.84	18.1	1.69		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas		37.7	1.54	1.04	9.03	2.64	1.05		41	45	820	4.88	0.9	90	36.4	3.3	3.2	1.2		4.05	17.8	1.38		
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas																								
SDC-1 Cert																								
GXR-6 Meas		37.2	0.10	0.60	> 10.0	1.88	0.18	< 0.1	154	69	1080	5.73	2.5	10	25.8		1.2		0.33	4.28	13.5	0.64	0.18	
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	
GXR-6 Meas		34.8	0.09	0.60	> 10.0	1.91	0.18	< 0.1	180	72	1120	5.87	2.7	10	24.7		1.1		0.35	3.94	13.8	0.69	0.18	
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	
GXR-6 Meas		38.0	0.11	0.62	> 10.0	1.34	0.20	< 0.1	124	56	1070	6.02	2.0	110	25.4		1.1		0.31	4.00	13.6	0.69	0.20	
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	
GXR-6 Meas		40.1	0.11	0.65	> 10.0	1.93	0.21	< 0.1	154	64	1080	5.60	2.4	20	26.7		1.1		0.35	4.41	14.1	0.64	0.18	
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	
GXR-6 Meas		36.8	0.10	0.61	> 10.0	2.07	0.16	0.1	178	72	1080	5.75	2.7	30	26.4		1.2		0.39	4.57	14.5	0.67	0.21	
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	
OREAS 97 (4 Acid) Meas																				19.5		63.9		39.1
OREAS 97 (4 Acid) Cert																				19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																				19.3		61.3		40.8
OREAS 97 (4 Acid) Cert																				19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																				19.3		62.6		42.4
OREAS 97 (4 Acid) Cert																				19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																				20.1		61.2		38.9

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			20.9		69.5		40.1
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			45.7		127		88.0
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			43.8		108		94.9
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.0		126		93.3
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			48.1		138		86.8
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
DNC-1a Meas		4.5	1.38				8.14		148	147		7.21			276						57.6	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.29				7.27		128	124		6.16			235						51.8	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.42				8.01		144	145		6.89			259						56.7	0.61	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.5	1.36				7.86		140	121		6.65			265						54.4	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.7	1.47				8.35		152	138		7.08			275						60.7	0.53	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
SBC-1 Meas		163						0.4	226	109			3.4	90.9	3.4	3.2	1.3		8.42	22.8	1.82	0.67	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		160						0.3	195	86			3.2	77.8	3.1	3.1	1.1		7.05	20.7	1.78	0.64	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		171						0.4	213	106			3.6	85.2	3.5	3.1	1.2		8.04	23.0	2.07	0.73	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		168						0.4	205	108			3.3	84.7	3.2	3.4	1.2		7.98	21.5	1.77	0.67	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		167						0.4	225	96			3.5	90.5	3.5	3.3	1.3		8.54	23.0	1.86	0.72	



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		21.5	0.09	0.23	8.28	0.44	0.20		150	578	546	15.8	2.8		255	1.4	0.8	0.5		3.93	30.9	0.60	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.6	0.10	0.24	8.82	0.46	0.19		73	497	491	15.0	1.2		235	1.4	0.8	0.5		3.83	30.5	0.63	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.1	0.09	0.19	8.26	0.43	0.18		163	540	499	14.6	3.0		224	1.3	0.8	0.4		3.58	29.0	0.64	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.5	0.09	0.19	8.01	0.44	0.19		88	491	483	14.1	1.5		237	1.2	0.7	0.5		3.89	29.2	0.58	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.5	0.09	0.19	8.00	0.46	0.18		86	477	471	14.3	1.4		241	1.3	0.6	0.5		3.77	30.7	0.60	0.36
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1240																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1200																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																			12.4		54.1		27.9
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.0		51.1		28.0
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.9		50.0		27.6
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																			11.8		49.8		26.9

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																			11.5		49.9		26.3
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas		14.3	1.44	0.42	7.18	2.20	2.05	292	34	24	532	3.98	4.6		27.3		1.7		66.8	3.17	31.4		3.99
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 621 (4 Acid) Meas		14.8	1.41	0.54	7.33	2.38	2.13	285	38	29	548	3.83	4.6		28.4		1.9		70.6	3.44	31.8		4.03
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69		69.0	3.28	29.3		3.93
OREAS 255 (Fire Assay) Meas	4230																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4150																						
OREAS 255 (Fire Assay) Cert	4080																						
786097 Orig	< 5																						
786097 Dup	< 5																						
786107 Orig	< 5																						
786107 Dup	< 5																						
784147 Orig	< 5																						
784147 Dup	< 5																						
784169 Orig	< 5																						
784169 Dup	< 5																						
786116 Orig	11																						
786116 Split PREP DUP	11																						
786120 Orig	< 5																						
786120 Dup	< 5																						
786129 Orig	< 5																						
786129 Dup	< 5																						
784154 Orig	12																						
784154 Dup	6																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	2	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	8	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	10	3	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	1	< 1	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	2	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	8	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	6	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	3	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.04
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	8	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	3	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	13	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	5	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	8	12	< 0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	4.9	71.0	14.9	99.3	149	12.8	226	56	9.2	303	0.2	7	4.4	0.8	1020	61.8	105		41.8	6.5	4.5	0.5	2.9
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.5	74.3	21.0	110	166	13.0	237	46	9.5	319	0.2	7	4.6	0.6	190	59.3	108		42.7	5.4	4.9	0.5	2.6
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.2	71.6	18.0	101	153	12.8	228	40	9.3	310	0.2	8	4.9	0.7	81	62.0	116		44.8	6.3	5.0	0.5	2.8
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.9	78.6	18.0	108	154	13.4	221	44	9.8	325	0.2	7	4.7	0.7	249	56.2	105		43.2	6.1	4.7	0.5	3.0
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	4.8	73.1	14.2	106	141	12.7	212	48	9.1	300	0.3	7	4.5	0.7	719	56.5	105		41.6	6.3	4.5	0.5	2.8
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		117	22.8	< 0.1	128		183	39	< 0.1			< 1	< 0.1		645	41.0	84.0		39.9	8.5	6.7	1.0	6.4
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		113	18.0	< 0.1	112		190	28	< 0.1			< 1	< 0.1		649	44.5	91.6		42.1	7.7	7.4	1.0	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		111	17.4	< 0.1	109		183	34	0.2			< 1	< 0.1		662	44.4	93.4		42.4	7.2	7.4	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	19.6	< 0.1	113		174	37	0.8			< 1	< 0.1		623	38.5	85.8		38.6	7.5	6.7	1.0	6.2
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	0.5	137	29.9	287	83.7	11.6	42.2	85	2.4	1.38	< 0.1	1	1.8	< 0.1	1370	13.1	34.3		12.6	2.2	2.4	0.3	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	< 0.1	140	22.3	323	86.8	11.6	38.0	96	4.3	2.98	< 0.1	1	1.9	< 0.1	1200	13.5	35.9		12.4	2.5	2.5	0.3	2.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.5	144	25.7	237	64.8	12.1	45.9	75	0.2	0.80	< 0.1	< 1	1.1	< 0.1	1390	13.7	36.3		13.1	2.5	2.4	0.3	2.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.4	136	21.0	293	81.9	12.4	45.8	89	1.9	1.45	< 0.1	1	1.8	< 0.1	1410	13.1	36.3		13.0	2.6	2.5	0.4	2.6
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	1.2	141	22.6	325	87.0	12.5	39.4	99	4.8	2.19	< 0.1	1	2.5	< 0.1	1210	13.8	39.1		13.6	2.7	2.7	0.4	2.6
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	71.4	637										91	6.6										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	60.9	616										96	7.1										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	63.1	609										93	6.3										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	80.9	616										89	7.9										

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	68.1	675										94	6.5										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	192	1410										191	10.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	139	1210										193	7.0										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	150	1360										191	9.7										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	135	1490										193	6.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
DNC-1a Meas		69.6	14.2		3.8	15.7	149	38	1.5				0.8		106	4.0			5.2				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		60.2	12.6		3.5	13.4	136	34	1.3				0.8		93	3.6			4.4				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		65.7	14.0		4.0	15.3	152	37	1.5				0.8		106	4.0			5.1				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		65.1	13.9		3.8	15.7	150	39	1.7				0.8		104	3.6			5.0				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		72.0	15.6		4.0	16.1	157	40	1.6				0.9		104	3.9			5.1				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		212	27.0	25.1	149	30.7	187	125	14.9	2.20		4	1.0		610	52.0	101	12.2	48.1	10.0	7.7	1.1	6.5
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		198	22.8	20.1	140	27.3	171	115	13.9	2.24		3	1.0		412	47.9	95.5	10.4	45.0	7.3	7.6	0.9	5.7
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		202	23.2	22.4	153	29.8	190	126	15.7	2.12		4	1.1		559	55.4	113	12.1	50.7	9.1	8.7	1.1	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		188	20.0	23.7	142	28.9	182	125	15.3	2.16		3	1.0		743	48.2	99.7	11.5	47.0	9.0	8.6	1.1	6.4
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		216	23.9	26.6	146	31.3	186	129	16.0	2.88		4	1.1		796	51.0	107	12.3	50.1	9.4	8.2	1.2	6.7

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		47.6	23.3	10.0	46.2	11.0	33.4	109	2.0	0.63	< 0.1	< 1	< 0.1		186	18.0	36.4	4.0	14.5	3.1	2.5	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		48.5	22.4	6.3	48.6	10.8	34.3	47	< 0.1	0.21	< 0.1	< 1	< 0.1		187	19.0	39.6	3.7	15.3	2.5	2.5	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		44.1	20.5	8.8	46.8	10.2	33.9	113	1.1	0.92	< 0.1	< 1	< 0.1		184	18.2	38.6	3.6	14.5	2.6	2.5	0.3	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.1	22.3	5.9	43.0	10.9	32.7	59	0.1	0.28	< 0.1	< 1	< 0.1		182	17.2	37.4	3.8	14.7	2.9	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		48.3	23.4	7.0	43.9	11.0	31.2	57	0.3	0.26	< 0.1	< 1	< 0.1		183	17.5	38.7	3.8	15.2	2.8	2.7	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	48.3	497										67	4.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	38.0	473										65	5.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	39.7	447										63	4.1										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	37.4	442										62	4.4										

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas	5.6	> 10000	28.9	66.0	91.1	12.3	67.5	187	9.9	13.4	1.7	6	19.1		20.2	48.5						0.4	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139		21.6	46.6						0.460	
OREAS 621 (4 Acid) Meas	5.3	> 10000	23.2	72.3	88.3	13.1	86.1	196	10.7	15.0	1.9	6	96.6		24.7	53.2						0.5	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139		21.6	46.6						0.460	
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
786097 Orig																							
786097 Dup																							
786107 Orig																							
786107 Dup																							
784147 Orig																							
784147 Dup																							
784169 Orig																							
784169 Dup																							
786116 Orig																							
786116 Split PREP DUP																							
786120 Orig																							
786120 Dup																							
786129 Orig																							
786129 Dup																							
784154 Orig																							
784154 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	0.2	< 0.1	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	1.4	0.8	< 0.1	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	1.1	0.6	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	0.3	< 0.2	< 0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	1.1	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.4	0.3	0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	0.9	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6440		0.2	1.0	0.1	0.6	34.6		3.28	52.3	8	22.9	6.0	0.258	0.135	1.83
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6630		0.2	1.0	0.1	0.6	35.7		3.01	47.0	8	18.4	5.3	0.276	0.134	1.85
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6420		0.2	1.0	0.1	0.6	33.9		3.27	52.3	8	18.4	6.0	0.282	0.133	1.81
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6350		0.2	1.1	0.1	0.6	34.8		3.26	51.5	8	20.3	5.9	0.270	0.140	1.88
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	5790		0.2	1.1	0.1	0.6	37.5		3.18	52.0	8	22.3	6.0	0.261	0.133	1.85
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	32.8		0.5	3.1		< 0.1	< 0.1		0.65	25.3	16	12.0	2.8	0.114	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	32.2		0.5	3.2		< 0.1	< 0.1		0.64	25.6	17	11.7	2.8	0.120	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	33.2		0.5	3.3		< 0.1	< 0.1		0.64	25.9	17	12.0	3.4	0.106	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	34.1		0.5	3.3		< 0.1	< 0.1		0.62	24.9	16	11.6	2.7	0.103	0.055	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas											16			0.0625	0.055	
SDC-1 Cert										17.00				0.606	0.0690	
GXR-6 Meas	73.8			1.6	0.2	< 0.1	0.3		2.16	102	29	5.2	1.5		0.036	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	74.4			1.6	0.3	0.1	0.7		2.06	99.7	29	4.9	1.4		0.034	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	76.9			1.6	0.3	< 0.1	< 0.1		2.15	101	29	5.0	1.4		0.037	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	74.1			1.7	0.3	< 0.1	0.2		2.14	103	31	5.5	1.5		0.039	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	76.6			1.9	0.3	0.2	0.7		2.34	109		5.7	1.6			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									141						6.90
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									143						6.69
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									149						6.73
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									141						6.81

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									142						6.85
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									322						15.8
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									335						14.5
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									328						13.8
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									309						15.5
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas																15.6
OREAS 98 (4 Acid) Cert																15.5
DNC-1a Meas	104			1.9						6.0	31			0.262		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	89.8			1.6						5.6	30			0.278		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	108			1.9						6.2	31			0.283		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	105			2.0						6.4	30			0.260		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	105			2.0						6.6	31			0.272		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	33.0		0.5	3.2	0.4	1.0	1.6		0.92	37.0	22	16.0	5.8	0.488		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	30.7		0.5	3.0	0.4	0.9	1.4		0.79	32.5	21	13.5	5.2	0.507		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	32.2		0.5	3.4	0.5	0.9	1.6		0.92	37.7	22	16.1	6.0	0.507		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	32.4		0.5	3.4	0.4	1.0	1.6		0.90	37.6	23	15.8	5.7	0.492		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	36.9		0.5	3.6	0.5	1.1	1.6		0.95	38.3	22	16.5	6.0	0.493		

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	394			1.4	0.2	< 0.1	< 0.1		0.27	22.8	60	15.6	3.0	0.382	0.040	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	426			1.5	0.2	< 0.1	< 0.1		0.27	22.4	56	14.9	2.8	0.126	0.034	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	375			1.4	0.2	< 0.1	< 0.1		0.26	22.6	58	14.8	2.8	0.477	0.037	0.22
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	392			1.5	0.2	< 0.1	< 0.1		0.26	23.3	55	14.7	2.8	0.157	0.036	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	390			1.5	0.2	< 0.1	< 0.1		0.28	23.0	56	14.5	2.9	0.137	0.035	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									103						4.30
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									98.9						4.24
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									102						4.34
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									100						4.34

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas																4.39
OREAS 96 (4 Acid) Cert																4.19
OREAS 621 (4 Acid) Meas	3730			1.0	0.1		2.3		2.03	> 5000	7	4.5	3.0	0.189	0.036	4.52
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3620			1.1	0.1		2.7		2.12	> 5000	7	7.3	2.9	0.187	0.036	4.62
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
786097 Orig																
786097 Dup																
786107 Orig																
786107 Dup																
784147 Orig																
784147 Dup																
784169 Orig																
784169 Dup																
786116 Orig																
786116 Split PREP DUP																
786120 Orig																
786120 Dup																
786129 Orig																
786129 Dup																
784154 Orig																
784154 Dup																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank	1.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	0.09	< 0.5	< 1	< 0.1	< 0.1	<	< 0.001	< 0.01

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
														0.0005		
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	0.09	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	1.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	0.10	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank											< 1			0.0005	< 0.001	< 0.01
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01



**Date Submitted:** 15-Apr-19  
**Invoice No.:** A19-05484  
**Invoice Date:** 22-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

57 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05484**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

**Date Submitted:** 15-Apr-19  
**Invoice No.:** A19-05484  
**Invoice Date:** 22-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.  
8 King Street East  
Suite 1700  
Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

**CERTIFICATE OF ANALYSIS**

57 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A19-05484**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-05484

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787925	16																						
787926	< 5	< 0.5	< 0.01	< 0.01	0.06	0.02	0.01	< 0.1	< 1	< 1	2	0.02	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.2	< 0.05	< 0.02
787927	7																						
787928	< 5																						
787929	< 5	< 0.5	0.03	< 0.01	0.07	0.01	0.02	< 0.1	< 1	< 1	3	0.02	< 0.1	< 10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.1	< 0.05	< 0.02
787930	6810																						
787931	10	< 0.5	0.02	0.02	0.06	< 0.01	0.04	< 0.1	1	1	6	0.04	< 0.1	< 10	0.7	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.3	< 0.05	< 0.02
787932	< 5																						
787933	< 5																						
787934	20	25.5	0.80	1.70	6.10	0.76	4.30	10.4	139	125	757	6.58	1.7	70	88.9	1.4	0.5	0.5	0.58	2.27	69.1	0.78	0.77
787935	< 5																						
787936	< 5																						
787937	30	< 0.5	< 0.01	0.03	0.05	< 0.01	0.10	< 0.1	1	1	14	0.07	< 0.1	< 10	1.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.4	< 0.05	< 0.02
787938	5																						
787939	< 5																						
787940	< 5																						
787941	< 5																						
787942	16	< 0.5	< 0.01	0.02	0.03	< 0.01	0.01	< 0.1	< 1	< 1	8	0.11	< 0.1	< 10	0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.3	< 0.05	< 0.02
787943	< 5																						
787944	< 5																						
787945	< 5	< 0.5	0.01	< 0.01	0.05	0.01	0.01	< 0.1	2	3	6	0.08	< 0.1	< 10	1.6	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.5	< 0.05	< 0.02
787946	< 5	< 0.5	0.01	0.02	0.06	< 0.01	0.04	< 0.1	< 1	2	17	0.08	< 0.1	< 10	1.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.4	< 0.05	< 0.02
787947	< 5																						
787948	< 5																						
787949	< 5	< 0.5	< 0.01	0.02	0.04	< 0.01	0.04	< 0.1	< 1	1	11	0.06	< 0.1	< 10	0.8	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.3	< 0.05	< 0.02
787950	5270																						
787951	12	< 0.5	< 0.01	0.02	0.06	< 0.01	0.04	< 0.1	1	1	15	0.08	< 0.1	< 10	0.7	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.4	< 0.05	< 0.02
787952	26	< 0.5	< 0.01	0.02	0.05	< 0.01	0.05	< 0.1	< 1	< 1	12	0.08	< 0.1	< 10	0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	0.4	< 0.05	< 0.02
787953	< 5																						
787954	< 5																						
787955	< 5																						
787956	< 5																						
787957	5																						
787958	< 5																						
787959	7																						
787960	< 5																						
787961	9																						
787962	< 5																						
787963	5																						
787964	8																						
787965	< 5																						
787966	< 5																						



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787967	< 5																						
787968	< 5																						
787969	< 5																						
787970	3600																						
787971	< 5																						
787972	< 5																						
787973	< 5																						
787974	< 5																						
787975	< 5																						
787976	< 5																						
787977	< 5																						
787978	< 5																						
787979	7																						
787980	< 5																						
787981	5																						

Results

Activation Laboratories Ltd.

Report: A19-05484

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787925																							
787926	< 0.1	1.2	0.1	< 0.1	0.5	< 0.1	0.7	1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	3	0.1	0.3	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
787927																							
787928																							
787929	< 0.1	1.9	0.1	< 0.1	0.4	< 0.1	2.7	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	4	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
787930																							
787931	< 0.1	9.1	0.2	< 0.1	< 0.2	< 0.1	1.0	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	2	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
787932																							
787933																							
787934	7.4	4640	24.1	0.7	31.1	12.7	92.6	68	2.9	4.40	1.2	10	0.1	1.3	160	9.0	21.2	2.5	10.7	2.4	2.3	0.4	2.4
787935																							
787936																							
787937	< 0.1	14.2	0.1	< 0.1	0.2	0.1	1.1	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
787938																							
787939																							
787940																							
787941																							
787942	< 0.1	15.7	0.1	< 0.1	< 0.2	< 0.1	0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	0.3	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
787943																							
787944																							
787945	< 0.1	10.2	0.2	< 0.1	0.4	0.2	0.6	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1
787946	< 0.1	9.5	0.2	< 0.1	0.4	0.2	1.0	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	2	< 0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
787947																							
787948																							
787949	< 0.1	19.7	0.1	< 0.1	< 0.2	< 0.1	0.9	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	1	< 0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
787950																							
787951	< 0.1	19.1	0.2	< 0.1	0.3	0.2	1.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	1	< 0.1	0.2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
787952	< 0.1	21.1	0.2	< 0.1	0.3	0.1	1.5	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
787953																							
787954																							
787955																							
787956																							
787957																							
787958																							
787959																							
787960																							
787961																							
787962																							
787963																							
787964																							
787965																							
787966																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
787967																							
787968																							
787969																							
787970																							
787971																							
787972																							
787973																							
787974																							
787975																							
787976																							
787977																							
787978																							
787979																							
787980																							
787981																							

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787925																
787926	1.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	6	< 0.1	< 0.1	0.172	0.038	0.89
787927																
787928																
787929	0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	11	< 0.1	< 0.1	0.216	0.031	0.21
787930																
787931	1.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	24	< 0.1	< 0.1	0.335	0.042	0.83
787932																
787933																
787934	736	< 0.1	0.2	1.5	0.2	0.2	2.2	0.013	0.41	30.2	21	1.4	0.4	0.300	0.034	1.91
787935																
787936																
787937	2.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	24	< 0.1	< 0.1	0.330	0.028	0.63
787938																
787939																
787940																
787941																
787942	4.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	8	< 0.1	< 0.1	0.172	0.045	4.92
787943																
787944																
787945	3.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	26	< 0.1	< 0.1	0.421	0.140	4.48
787946	1.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	36	< 0.1	< 0.1	0.419	0.098	2.23
787947																
787948																
787949	2.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	16	< 0.1	< 0.1	0.220	0.069	1.53
787950																
787951	2.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	29	< 0.1	< 0.1	0.454	0.071	2.36
787952	2.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	16	< 0.1	< 0.1	0.367	0.039	2.59
787953																
787954																
787955																
787956																
787957																
787958																
787959																
787960																
787961																
787962																
787963																
787964																
787965																
787966																

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
787967																
787968																
787969																
787970																
787971																
787972																
787973																
787974																
787975																
787976																
787977																
787978																
787979																
787980																
787981																

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas		10.9	0.53	1.66	6.29	4.18	1.00	0.3	87	50	160	3.12	1.3	< 10	42.3		1.8		3.71	2.69	14.1	1.37	18.9
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		14.3	0.58	1.84	9.48	4.74	1.08	0.3	90	52	177	3.30	1.4	< 10	41.2		2.2		3.53	2.53	15.3	1.50	18.7
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		11.0	0.51	1.69	6.84	3.82	1.02	0.2	85	46	151	3.12	1.3	130	39.7		2.0		3.57	2.66	13.5	1.62	19.7
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		11.7	0.55	1.83	6.97	4.44	1.03	0.2	92	52	169	3.14	1.3	< 10	42.5		2.2		3.89	2.67	14.3	1.38	18.8
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
GXR-4 Meas		12.6	0.49	1.73	7.76	4.20	1.04	0.3	87	44	162	3.00	1.4	< 10	40.7		2.1		3.67	2.65	13.9	1.36	19.6
GXR-4 Cert		11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0
SDC-1 Meas		33.6	1.51	1.04	8.40	2.75	1.09		41	51	905	5.17	1.0	30	36.1	3.3	2.8	1.2		4.17	18.8	1.43	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		37.4	1.62	1.07	9.50	2.45	1.05		35	57	925	4.97	0.8	50	36.1	3.4	3.0	1.2		3.82	18.7	1.68	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		36.0	1.55	1.02	8.99	2.30	1.04		38	48	875	4.93	0.9	90	35.8	3.4	3.0	1.2		3.84	18.1	1.69	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas		37.7	1.54	1.04	9.03	2.64	1.05		41	45	820	4.88	0.9	90	36.4	3.3	3.2	1.2		4.05	17.8	1.38	
SDC-1 Cert		34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70	
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		37.2	0.10	0.60	> 10.0	1.88	0.18	< 0.1	154	69	1080	5.73	2.5	10	25.8		1.2		0.33	4.28	13.5	0.64	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		34.8	0.09	0.60	> 10.0	1.91	0.18	< 0.1	180	72	1120	5.87	2.7	10	24.7		1.1		0.35	3.94	13.8	0.69	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		38.0	0.11	0.62	> 10.0	1.34	0.20	< 0.1	124	56	1070	6.02	2.0	110	25.4		1.1		0.31	4.00	13.6	0.69	0.20
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		40.1	0.11	0.65	> 10.0	1.93	0.21	< 0.1	154	64	1080	5.60	2.4	20	26.7		1.1		0.35	4.41	14.1	0.64	0.18
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
GXR-6 Meas		36.8	0.10	0.61	> 10.0	2.07	0.16	0.1	178	72	1080	5.75	2.7	30	26.4		1.2		0.39	4.57	14.5	0.67	0.21
GXR-6 Cert		32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290
OREAS 97 (4 Acid) Meas																			19.5		63.9		39.1
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			19.3		61.3		40.8
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			19.3		62.6		42.4
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			20.1		61.2		38.9

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 97 (4 Acid) Meas																			20.9		69.5		40.1
OREAS 97 (4 Acid) Cert																			19.6		62.9		40.1
OREAS 98 (4 Acid) Meas																			45.7		127		88.0
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			43.8		108		94.9
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			44.0		126		93.3
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																			48.1		138		86.8
OREAS 98 (4 Acid) Cert																			45.1		121		97.2
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
DNC-1a Meas		4.5	1.38				8.14		148	147		7.21			276						57.6	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.29				7.27		128	124		6.16			235						51.8	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.4	1.42				8.01		144	145		6.89			259						56.7	0.61	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.5	1.36				7.86		140	121		6.65			265						54.4	0.54	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
DNC-1a Meas		4.7	1.47				8.35		152	138		7.08			275						60.7	0.53	
DNC-1a Cert		5.2	1.40				8.21		148	270		6.97			247						57	0.59	
SBC-1 Meas		163						0.4	226	109			3.4	90.9	3.4	3.2	1.3		8.42	22.8	1.82	0.67	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		160						0.3	195	86			3.2	77.8	3.1	3.1	1.1		7.05	20.7	1.78	0.64	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		171						0.4	213	106			3.6	85.2	3.5	3.1	1.2		8.04	23.0	2.07	0.73	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		168						0.4	205	108			3.3	84.7	3.2	3.4	1.2		7.98	21.5	1.77	0.67	
SBC-1 Cert		163						0.40	220.0	109			3.7	82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas		167						0.4	225	96			3.5	90.5	3.5	3.3	1.3		8.54	23.0	1.86	0.72	

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SBC-1 Cert		163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70
OREAS 45d (4-Acid) Meas		21.5	0.09	0.23	8.28	0.44	0.20		150	578	546	15.8	2.8		255	1.4	0.8	0.5		3.93	30.9	0.60	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.6	0.10	0.24	8.82	0.46	0.19		73	497	491	15.0	1.2		235	1.4	0.8	0.5		3.83	30.5	0.63	0.33
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		22.1	0.09	0.19	8.26	0.43	0.18		163	540	499	14.6	3.0		224	1.3	0.8	0.4		3.58	29.0	0.64	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.5	0.09	0.19	8.01	0.44	0.19		88	491	483	14.1	1.5		237	1.2	0.7	0.5		3.89	29.2	0.58	0.34
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 45d (4-Acid) Meas		21.5	0.09	0.19	8.00	0.46	0.18		86	477	471	14.3	1.4		241	1.3	0.6	0.5		3.77	30.7	0.60	0.36
OREAS 45d (4-Acid) Cert		21.5	0.101	0.245	8.150	0.412	0.185		235.0	549		14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 222 (Fire Assay) Meas	1230																						
OREAS 222 (Fire Assay) Cert	1220																						
OREAS 96 (4 Acid) Meas																				12.4	54.1		27.9
OREAS 96 (4 Acid) Cert																				11.5	49.9		26.3
OREAS 96 (4 Acid) Meas																				11.0	51.1		28.0
OREAS 96 (4 Acid) Cert																				11.5	49.9		26.3
OREAS 96 (4 Acid) Meas																				11.9	50.0		27.6
OREAS 96 (4 Acid) Cert																				11.5	49.9		26.3
OREAS 96 (4 Acid) Meas																				11.8	49.8		26.9
OREAS 96 (4 Acid) Cert																				11.5	49.9		26.3
OREAS 96 (4 Acid) Meas																							



Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas		14.3	1.44	0.42	7.18	2.20	2.05	292	34	24	532	3.98	4.6		27.3		1.7	66.8	3.17	31.4			3.99
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69	69.0	3.28	29.3			3.93
OREAS 621 (4 Acid) Meas		14.8	1.41	0.54	7.33	2.38	2.13	285	38	29	548	3.83	4.6		28.4		1.9	70.6	3.44	31.8			4.03
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	37.1	532	3.70	4.41		26.2		1.69	69.0	3.28	29.3			3.93
OREAS 255 (Fire Assay) Meas	4190																						
OREAS 255 (Fire Assay) Cert	4080																						
OREAS 255 (Fire Assay) Meas	4160																						
OREAS 255 (Fire Assay) Cert	4080																						
787934 Orig	19																						
787934 Dup	21																						
787944 Orig	< 5																						
787944 Dup	< 5																						
787954 Orig	< 5																						
787954 Dup	< 5																						
787969 Orig	< 5																						
787969 Dup	< 5																						
787974 Orig	< 5																						
787974 Split PREP DUP	< 5																						
787978 Orig	< 5																						
787978 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	2	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	4	< 0.01	< 0.1	60	< 0.5	< 0.1	0.2	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	8	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	10	3	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	1	< 1	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	2	< 0.01	< 0.1	80	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	1	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02
Method Code	FA-AA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	8	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	2	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	6	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	2	3	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.04
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3	8	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	3	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	5	5	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5	13	< 0.01	< 0.1	40	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4	5	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	8	12	< 0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-4 Meas	4.9	71.0	14.9	99.3	149	12.8	226	56	9.2	303	0.2	7	4.4	0.8	1020	61.8	105		41.8	6.5	4.5	0.5	2.9
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.5	74.3	21.0	110	166	13.0	237	46	9.5	319	0.2	7	4.6	0.6	190	59.3	108		42.7	5.4	4.9	0.5	2.6
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.2	71.6	18.0	101	153	12.8	228	40	9.3	310	0.2	8	4.9	0.7	81	62.0	116		44.8	6.3	5.0	0.5	2.8
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	5.9	78.6	18.0	108	154	13.4	221	44	9.8	325	0.2	7	4.7	0.7	249	56.2	105		43.2	6.1	4.7	0.5	3.0
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
GXR-4 Meas	4.8	73.1	14.2	106	141	12.7	212	48	9.1	300	0.3	7	4.5	0.7	719	56.5	105		41.6	6.3	4.5	0.5	2.8
GXR-4 Cert	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60
SDC-1 Meas		117	22.8	< 0.1	128		183	39	< 0.1			< 1	< 0.1		645	41.0	84.0		39.9	8.5	6.7	1.0	6.4
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		113	18.0	< 0.1	112		190	28	< 0.1			< 1	< 0.1		649	44.5	91.6		42.1	7.7	7.4	1.0	5.9
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		111	17.4	< 0.1	109		183	34	0.2			< 1	< 0.1		662	44.4	93.4		42.4	7.2	7.4	1.0	6.1
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas		116	19.6	< 0.1	113		174	37	0.8			< 1	< 0.1		623	38.5	85.8		38.6	7.5	6.7	1.0	6.2
SDC-1 Cert		103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	0.5	137	29.9	287	83.7	11.6	42.2	85	2.4	1.38	< 0.1	1	1.8	< 0.1	1370	13.1	34.3		12.6	2.2	2.4	0.3	2.4
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	< 0.1	140	22.3	323	86.8	11.6	38.0	96	4.3	2.98	< 0.1	1	1.9	< 0.1	1200	13.5	35.9		12.4	2.5	2.5	0.3	2.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.5	144	25.7	237	64.8	12.1	45.9	75	0.2	0.80	< 0.1	< 1	1.1	< 0.1	1390	13.7	36.3		13.1	2.5	2.4	0.3	2.2
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	0.4	136	21.0	293	81.9	12.4	45.8	89	1.9	1.45	< 0.1	1	1.8	< 0.1	1410	13.1	36.3		13.0	2.6	2.5	0.4	2.6
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
GXR-6 Meas	1.2	141	22.6	325	87.0	12.5	39.4	99	4.8	2.19	< 0.1	1	2.5	< 0.1	1210	13.8	39.1		13.6	2.7	2.7	0.4	2.6
GXR-6 Cert	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80
OREAS 97 (4 Acid) Meas	71.4	637										91	6.6										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	60.9	616										96	7.1										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	63.1	609										93	6.3										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	80.9	616										89	7.9										

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 97 (4 Acid) Meas	68.1	675										94	6.5										
OREAS 97 (4 Acid) Cert	71.4	646										95.7	9.23										
OREAS 98 (4 Acid) Meas	192	1410										191	10.2										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	139	1210										193	7.0										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	150	1360										191	9.7										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas	135	1490										193	6.6										
OREAS 98 (4 Acid) Cert	158	1360										206	20.1										
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
DNC-1a Meas		69.6	14.2		3.8	15.7	149	38	1.5				0.8		106	4.0			5.2				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		60.2	12.6		3.5	13.4	136	34	1.3				0.8		93	3.6			4.4				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		65.7	14.0		4.0	15.3	152	37	1.5				0.8		106	4.0			5.1				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		65.1	13.9		3.8	15.7	150	39	1.7				0.8		104	3.6			5.0				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
DNC-1a Meas		72.0	15.6		4.0	16.1	157	40	1.6				0.9		104	3.9			5.1				
DNC-1a Cert		70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20				
SBC-1 Meas		212	27.0	25.1	149	30.7	187	125	14.9	2.20		4	1.0		610	52.0	101	12.2	48.1	10.0	7.7	1.1	6.5
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		198	22.8	20.1	140	27.3	171	115	13.9	2.24		3	1.0		412	47.9	95.5	10.4	45.0	7.3	7.6	0.9	5.7
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		202	23.2	22.4	153	29.8	190	126	15.7	2.12		4	1.1		559	55.4	113	12.1	50.7	9.1	8.7	1.1	6.3
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		188	20.0	23.7	142	28.9	182	125	15.3	2.16		3	1.0		743	48.2	99.7	11.5	47.0	9.0	8.6	1.1	6.4
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
SBC-1 Meas		216	23.9	26.6	146	31.3	186	129	16.0	2.88		4	1.1		796	51.0	107	12.3	50.1	9.4	8.2	1.2	6.7

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SBC-1 Cert		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10
OREAS 45d (4-Acid) Meas		47.6	23.3	10.0	46.2	11.0	33.4	109	2.0	0.63	< 0.1	< 1	< 0.1		186	18.0	36.4	4.0	14.5	3.1	2.5	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		48.5	22.4	6.3	48.6	10.8	34.3	47	< 0.1	0.21	< 0.1	< 1	< 0.1		187	19.0	39.6	3.7	15.3	2.5	2.5	0.4	2.4
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		44.1	20.5	8.8	46.8	10.2	33.9	113	1.1	0.92	< 0.1	< 1	< 0.1		184	18.2	38.6	3.6	14.5	2.6	2.5	0.3	2.2
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		43.1	22.3	5.9	43.0	10.9	32.7	59	0.1	0.28	< 0.1	< 1	< 0.1		182	17.2	37.4	3.8	14.7	2.9	2.4	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 45d (4-Acid) Meas		48.3	23.4	7.0	43.9	11.0	31.2	57	0.3	0.26	< 0.1	< 1	< 0.1		183	17.5	38.7	3.8	15.2	2.8	2.7	0.4	2.3
OREAS 45d (4-Acid) Cert		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 222 (Fire Assay) Meas																							
OREAS 222 (Fire Assay) Cert																							
OREAS 96 (4 Acid) Meas	48.3	497										67	4.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	38.0	473										65	5.5										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	39.7	447										63	4.1										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas	37.4	442										62	4.4										
OREAS 96 (4 Acid) Cert	40.7	457										65.6	5.09										
OREAS 96 (4 Acid) Meas																							

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas	5.6	> 10000	28.9	66.0	91.1	12.3	67.5	187	9.9	13.4	1.7	6	19.1			20.2	48.5					0.4	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460	
OREAS 621 (4 Acid) Meas	5.3	> 10000	23.2	72.3	88.3	13.1	86.1	196	10.7	15.0	1.9	6	96.6			24.7	53.2					0.5	
OREAS 621 (4 Acid) Cert	5.64	52200	24.6	77.0	84.0	11.1	91.0	168	8.61	13.6	1.83	5.25	139			21.6	46.6					0.460	
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
787934 Orig																							
787934 Dup																							
787944 Orig																							
787944 Dup																							
787954 Orig																							
787954 Dup																							
787969 Orig																							
787969 Dup																							
787974 Orig																							
787974 Split PREP DUP																							
787978 Orig																							
787978 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	0.2	< 0.1	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	1.4	0.8	< 0.1	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	1.1	0.6	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	0.3	< 0.2	< 0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.3	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.1	0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	1.1	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.6	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	< 0.2	< 0.1	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.1	0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	0.4	0.3	0.1	0.7	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank	0.9	< 0.2	< 0.1	0.4	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-4 Meas	6440		0.2	1.0	0.1	0.6	34.6		3.28	52.3	8	22.9	6.0	0.258	0.135	1.83
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6630		0.2	1.0	0.1	0.6	35.7		3.01	47.0	8	18.4	5.3	0.276	0.134	1.85
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6420		0.2	1.0	0.1	0.6	33.9		3.27	52.3	8	18.4	6.0	0.282	0.133	1.81
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	6350		0.2	1.1	0.1	0.6	34.8		3.26	51.5	8	20.3	5.9	0.270	0.140	1.88
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	5790		0.2	1.1	0.1	0.6	37.5		3.18	52.0	8	22.3	6.0	0.261	0.133	1.85
GXR-4 Cert	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	32.8		0.5	3.1		< 0.1	< 0.1		0.65	25.3	16	12.0	2.8	0.114	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	32.2		0.5	3.2		< 0.1	< 0.1		0.64	25.6	17	11.7	2.8	0.120	0.057	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	33.2		0.5	3.3		< 0.1	< 0.1		0.64	25.9	17	12.0	3.4	0.106	0.056	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	34.1		0.5	3.3		< 0.1	< 0.1		0.62	24.9	16	11.6	2.7	0.103	0.055	
SDC-1 Cert	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas											16			0.0625	0.055	
SDC-1 Cert											17.00			0.606	0.0690	
GXR-6 Meas	73.8			1.6	0.2	< 0.1	0.3		2.16	102	29	5.2	1.5		0.036	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	74.4			1.6	0.3	0.1	0.7		2.06	99.7	29	4.9	1.4		0.034	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	76.9			1.6	0.3	< 0.1	< 0.1		2.15	101	29	5.0	1.4		0.037	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	74.1			1.7	0.3	< 0.1	0.2		2.14	103	31	5.5	1.5		0.039	0.02
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	76.6			1.9	0.3	0.2	0.7		2.34	109		5.7	1.6			
GXR-6 Cert	66.0			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
OREAS 97 (4 Acid) Meas	> 10000									141						6.90
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									143						6.69
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									149						6.73
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									141						6.81



Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 97 (4 Acid) Meas	> 10000									142						6.85
OREAS 97 (4 Acid) Cert	63100.00									147						6.07
OREAS 98 (4 Acid) Meas	> 10000									322						15.8
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									335						14.5
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									328						13.8
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas	> 10000									309						15.5
OREAS 98 (4 Acid) Cert	14800.0									345						15.5
OREAS 98 (4 Acid) Meas																15.6
OREAS 98 (4 Acid) Cert																15.5
DNC-1a Meas	104			1.9						6.0	31			0.262		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	89.8			1.6						5.6	30			0.278		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	108			1.9						6.2	31			0.283		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	105			2.0						6.4	30			0.260		
DNC-1a Cert	100			2.0						6.3	31			0.29		
DNC-1a Meas	105			2.0						6.6	31			0.272		
DNC-1a Cert	100			2.0						6.3	31			0.29		
SBC-1 Meas	33.0		0.5	3.2	0.4	1.0	1.6		0.92	37.0	22	16.0	5.8	0.488		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	30.7		0.5	3.0	0.4	0.9	1.4		0.79	32.5	21	13.5	5.2	0.507		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	32.2		0.5	3.4	0.5	0.9	1.6		0.92	37.7	22	16.1	6.0	0.507		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	32.4		0.5	3.4	0.4	1.0	1.6		0.90	37.6	23	15.8	5.7	0.492		
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	36.9		0.5	3.6	0.5	1.1	1.6		0.95	38.3	22	16.5	6.0	0.493		

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SBC-1 Cert	31.0		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	394			1.4	0.2	< 0.1	< 0.1		0.27	22.8	60	15.6	3.0	0.382	0.040	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	426			1.5	0.2	< 0.1	< 0.1		0.27	22.4	56	14.9	2.8	0.126	0.034	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	375			1.4	0.2	< 0.1	< 0.1		0.26	22.6	58	14.8	2.8	0.477	0.037	0.22
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	392			1.5	0.2	< 0.1	< 0.1		0.26	23.3	55	14.7	2.8	0.157	0.036	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	390			1.5	0.2	< 0.1	< 0.1		0.28	23.0	56	14.5	2.9	0.137	0.035	0.05
OREAS 45d (4-Acid) Cert	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 222 (Fire Assay) Meas																
OREAS 222 (Fire Assay) Cert																
OREAS 96 (4 Acid) Meas	> 10000									103						4.30
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									98.9						4.24
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									102						4.34
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas	> 10000									100						4.34
OREAS 96 (4 Acid) Cert	39300									101						4.19
OREAS 96 (4 Acid) Meas																4.39

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert																4.19
OREAS 621 (4 Acid) Meas	3730			1.0	0.1		2.3		2.03	> 5000	7	4.5	3.0	0.189	0.036	4.52
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 621 (4 Acid) Meas	3620			1.1	0.1		2.7		2.12	> 5000	7	7.3	2.9	0.187	0.036	4.62
OREAS 621 (4 Acid) Cert	3630			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
OREAS 255 (Fire Assay) Meas																
OREAS 255 (Fire Assay) Cert																
787934 Orig																
787934 Dup																
787944 Orig																
787944 Dup																
787954 Orig																
787954 Dup																
787969 Orig																
787969 Dup																
787974 Orig																
787974 Split PREP DUP																
787978 Orig																
787978 Dup																
Method Blank																
Method Blank																
Method Blank																
Method Blank	1.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	0.09	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Analyte Symbol	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank														0.0005		
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	0.09	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	1.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	0.10	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank											< 1			< 0.0005	< 0.001	< 0.01
Method Blank	0.7	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



**Date Submitted:** 15-Apr-19  
**Invoice No.:** A19-05485  
**Invoice Date:** 28-Apr-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

106 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05485**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
787982	< 5
787983	< 5
787984	< 5
787985	< 5
787986	< 5
787987	5
787988	< 5
787989	< 5
787990	6790
787991	5
787992	< 5
787993	< 5
787994	20
787995	< 5
787996	< 5
787997	10
787998	< 5
787999	< 5
788000	< 5
786001	< 5
786002	9
786003	< 5
786004	< 5
786005	6
786006	< 5
786007	< 5
786008	< 5
786009	< 5
786010	5640
786011	6
786012	< 5
786013	< 5
786014	< 5
786015	< 5
786016	< 5
786017	< 5
786018	9
786019	< 5
786020	< 5
786021	< 5
786022	5
786023	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786024	< 5
786025	< 5
786026	< 5
786027	< 5
786028	< 5
786029	< 5
786030	3630
786031	< 5
786032	< 5
786033	< 5
786034	< 5
786035	< 5
786036	< 5
786037	< 5
786038	< 5
786039	< 5
786040	< 5
786041	< 5
786042	< 5
786043	< 5
786044	< 5
786045	< 5
786046	< 5
786047	< 5
786048	< 5
786049	< 5
786050	6650
786051	< 5
786052	< 5
786053	< 5
786054	< 5
786055	< 5
786056	< 5
786057	< 5
786058	< 5
786059	< 5
786060	< 5
786061	< 5
786062	< 5
786063	< 5
786064	< 5
786065	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786066	5
786067	< 5
786068	< 5
786069	< 5
786070	5600
786071	< 5
786072	< 5
786073	< 5
786074	< 5
786075	< 5
786076	< 5
786077	< 5
786078	< 5
786079	< 5
786080	< 5
786081	< 5
786082	< 5
786083	< 5
786084	< 5
786085	6
786086	< 5
786087	< 5



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 222 (Fire Assay) Meas	1270
OREAS 222 (Fire Assay) Cert	1220
OREAS 222 (Fire Assay) Meas	1210
OREAS 222 (Fire Assay) Cert	1220
OREAS 222 (Fire Assay) Meas	1240
OREAS 222 (Fire Assay) Cert	1220
OREAS 255 (Fire Assay) Meas	4140
OREAS 255 (Fire Assay) Cert	4080
OREAS 255 (Fire Assay) Meas	4180
OREAS 255 (Fire Assay) Cert	4080
OREAS 255 (Fire Assay) Meas	4170
OREAS 255 (Fire Assay) Cert	4080
OREAS 255 (Fire Assay) Meas	4210
OREAS 255 (Fire Assay) Cert	4080
787991 Orig	5
787991 Dup	5
786001 Orig	< 5
786001 Dup	< 5
786011 Orig	6
786011 Dup	5
786026 Orig	< 5
786026 Dup	< 5
786031 Orig	< 5
786031 Split PREP DUP	< 5
786035 Orig	< 5
786035 Dup	< 5
786045 Orig	< 5
786045 Dup	< 5
786060 Orig	< 5
786060 Dup	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786071 Orig	< 5
786071 Dup	< 5
786080 Orig	< 5
786080 Dup	< 5
786081 Orig	< 5
786081 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 26-Apr-19  
**Invoice No.:** A19-05891  
**Invoice Date:** 07-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

135 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05891**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
784179	< 5
784180	< 5
784181	< 5
786205	< 5
786206	< 5
786207	< 5
786208	< 5
786209	< 5
786210	5360
786211	40
786212	6
786213	< 5
786214	< 5
786215	< 5
786216	< 5
786217	< 5
786218	< 5
786219	< 5
786220	< 5
786221	< 5
786222	< 5
786223	< 5
786224	< 5
786225	< 5
786226	< 5
786227	< 5
786228	< 5
786229	< 5
786230	6600
786231	< 5
786232	< 5
786233	< 5
786234	< 5
786235	< 5
786236	< 5
786237	< 5
786238	< 5
786239	6
786240	< 5
786241	< 5
786242	< 5
786243	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786244	< 5
786245	< 5
786246	< 5
786247	< 5
786248	< 5
786249	< 5
786250	3460
786251	< 5
786252	8
786253	< 5
786254	< 5
786255	< 5
786256	< 5
786257	< 5
786258	< 5
786259	< 5
786260	< 5
786261	< 5
786262	< 5
786263	< 5
786264	22
786265	6
786266	< 5
786267	< 5
786268	< 5
786269	< 5
786270	5360
786271	< 5
786272	< 5
786273	< 5
786274	6
786275	8
786276	5
786277	< 5
786278	< 5
786279	< 5
786280	< 5
786281	< 5
786282	< 5
786283	16
786284	< 5
786285	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786286	6
786287	< 5
786288	< 5
786289	< 5
786290	6520
786291	< 5
786292	< 5
786293	< 5
786294	5
786295	< 5
786296	< 5
786297	< 5
786298	< 5
786299	< 5
786300	< 5
786301	< 5
786302	< 5
786303	< 5
786304	< 5
786305	< 5
786306	< 5
786307	9
786308	< 5
786309	< 5
786310	5120
786311	< 5
786312	< 5
786313	< 5
786314	< 5
786315	< 5
786316	< 5
786317	< 5
786318	< 5
786319	5
786320	< 5
786321	< 5
786322	< 5
786323	6
786324	25
786325	< 5
786326	< 5
786327	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786328	< 5
786329	< 5
786330	3530
786331	66
786332	11
786333	< 5
786334	< 5
786335	< 5
786336	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
Oreas 221 (Fire Assay) Meas	1040
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1020
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	999
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1040
Oreas 221 (Fire Assay) Cert	1060
786216 Orig	< 5
786216 Dup	< 5
786220 Orig	< 5
786220 Dup	< 5
786234 Orig	< 5
786234 Dup	< 5
786246 Orig	< 5
786246 Dup	< 5
786251 Orig	< 5
786251 Split PREP DUP	< 5
786255 Orig	< 5
786255 Dup	< 5
786266 Orig	< 5
786266 Dup	< 5
786280 Orig	< 5
786280 Dup	< 5
786291 Orig	< 5
786291 Dup	< 5
786301 Orig	< 5
786301 Split PREP DUP	< 5
786302 Orig	< 5
786302 Dup	< 5
786314 Orig	< 5
786314 Dup	< 5
786324 Orig	28
786324 Dup	21



Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786333 Orig	< 5
786333 Dup	5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



**Date Submitted:** 26-Apr-19  
**Invoice No.:** A19-05961  
**Invoice Date:** 07-May-19  
**Your Reference:** Exploration/Prospecting

**Harte Gold Corp.**  
**8 King Street East**  
**Suite 1700**  
**Toronto Ontario M5C 1B5**

**ATTN: Vice President George Flach**

## CERTIFICATE OF ANALYSIS

79 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay-Harte Gold Au - Fire Assay AA (QOP Fire Assay Tbay)

REPORT **A19-05961**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large 'E' and 'S'.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

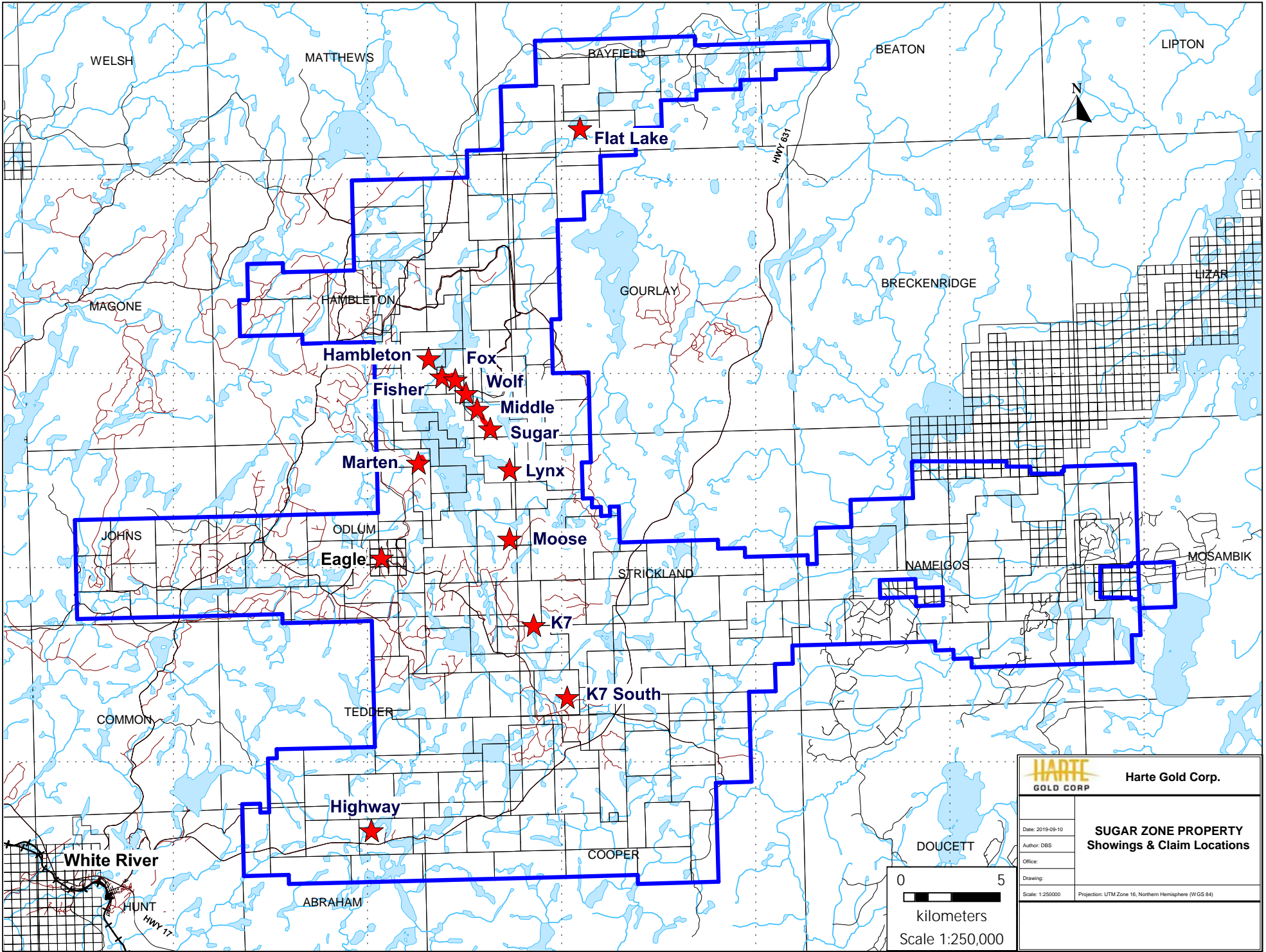
Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786144	< 5
786145	< 5
786146	< 5
786147	< 5
786148	13
786149	5
786150	3250
786151	6
786152	6
786153	20
786154	< 5
786155	5
786156	37
786157	16
786158	< 5
786159	5
786160	< 5
786161	< 5
786162	< 5
786163	5
786164	14
786165	< 5
786166	6
786167	12
786168	5
786169	6
786170	5410
786171	< 5
786172	7
786173	< 5
786174	< 5
786175	< 5
786176	< 5
786177	10
786178	< 5
786179	< 5
786180	< 5
786181	< 5
786182	< 5
786183	< 5
786184	< 5
786185	5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
786186	11
786187	10
786188	< 5
786189	< 5
786190	6400
786191	< 5
786192	< 5
786193	8
786194	6
786195	6
786196	6
786197	< 5
786198	7
786199	8
786200	< 5
786202	< 5
786203	5
786204	< 5
784131	< 5
784132	37
784133	< 5
784134	< 5
784135	5
784136	< 5
784137	< 5
784138	< 5
784139	5
784140	< 5
784141	< 5
784171	< 5
784172	< 5
784173	< 5
784174	6
784175	6
784176	6
784177	6
784178	5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
Oreas 221 (Fire Assay) Meas	1030
Oreas 221 (Fire Assay) Cert	1060
Oreas 221 (Fire Assay) Meas	1050
Oreas 221 (Fire Assay) Cert	1060
786153 Orig	19
786153 Dup	20
786163 Orig	5
786163 Dup	5
786174 Orig	< 5
786174 Dup	< 5
786188 Orig	< 5
786188 Dup	< 5
786193 Orig	8
786193 Split PREP DUP	8
786197 Orig	< 5
786197 Dup	< 5
784135 Orig	5
784135 Dup	5
784140 Orig	< 5
784140 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5

**Appendix F – Hambleton Grid 2018 & 2019 Actlabs Invoices**

**Appendix G – Hambleton Grid 2018 & 2019 Chibougamau Invoices**



<b>HARTE</b> GOLD CORP.		<b>Harte Gold Corp.</b>	
Date: 2019-09-10		<b>SUGAR ZONE PROPERTY</b> <b>Showings &amp; Claim Locations</b>	
Author: DBS			
Office:			
Drawing:		Scale: 1:250,000	
		Projection: UTM Zone 16, Northern Hemisphere (WGS 84)	

