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**2021 DIAMOND DRILLING REPORT
SOUTHERN ZONE
SUGAR ZONE PROPERTY
DAYOHESSARAH LAKE AREA
WHITE RIVER, ONTARIO**

NTS 42C/ 10, 11, 14 and 15

Latitude 48°48' N, Longitude 85°10' W

**Dates Work Performed
September 22, 2021 to March 18, 2022**

for

**Harte Gold Corporation
161 Bay Street
Suite 2400
Toronto, Ontario
M5J 2S1**

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Executive Summary

Between September 22, 2021 to November 09, 2021 Harte Gold Corporation performed a 5-hole, 1,631 meter diamond drill program at the Southern Zone. The Southern Zones is located approximately 19 kilometers southeast of Harte Gold's Sugar Zone Mine on the Sugar Zone property. The property is located in the Dayohessarah Lake area, and is situated 29 km eastnortheast of White River, Ontario. One drill rigs (Drill #5511) was supplied by Foraco Canada Ltd. to perform drilling.

The intent of the Southern drill program was to drill test several, moderate to strong IP chargeability anomalies that are coincident with a linear magnetic high both of which extend to 700 meters along strike. A total of \$347,271 was spent on this drill program which included costs such as drilling, assays and salaries, etc. The average cost per meter was \$212.92.

A high of 1.09 g/t Au over 0.65 meters from 273.50-274.15 meters was encountered in SOU-21-02. Additionally, 0.63 g/t Au over 0.30 meters form 234.70-235.00 meters was also encountered in SOU-21-03.

The Sugar Zone property lies within in the Dayohessarah Greenstone Belt ("DGB"). The DGB 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 Sugar Zone property, including the Sugar Zone. Harte subsequently entered into a Joint Venture agreement with Corona Gold Corporation and in 2012 Harte Gold acquired Corona's portion of the Sugar Zone property to become the 100% owner and operator of all the claims. Harte Gold subsequently conducted extensive advanced exploration at the Sugar Zone including a successful 70,000 tonne bulk sample in 2017. After a successful development and commissioning period commercial production was officially declared for the Sugar Zone Mine on January 8th, 2019.

1.0 Introduction

The Southern Zone is located approximately 19 kilometers southeast of the Sugar Zone Mine (Figure 2). The Southern Zone is one of several gold occurrences identified on the Sugar Zone property. The property is located in the Dayohessarah Greenstone Belt. This greenstone belt is part of the larger, east trending Schreiber-White River Belt of the Wawa Subprovince of the Superior Craton (Figure 3).

This report will summarize and discuss the results of the diamond drill program conducted between September 22, 2021 to November 09, 2021 by Harte Gold Corp. on the Sugar Zone property. The drill report was written from March 13 to March 18, 2022.

The Southern Zone holes were drilled on claims permitted by Exploration Permit PR-20-000372.

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

2.0 Property Location and Description

2.1 Location and Access

The Sugar Zone 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.

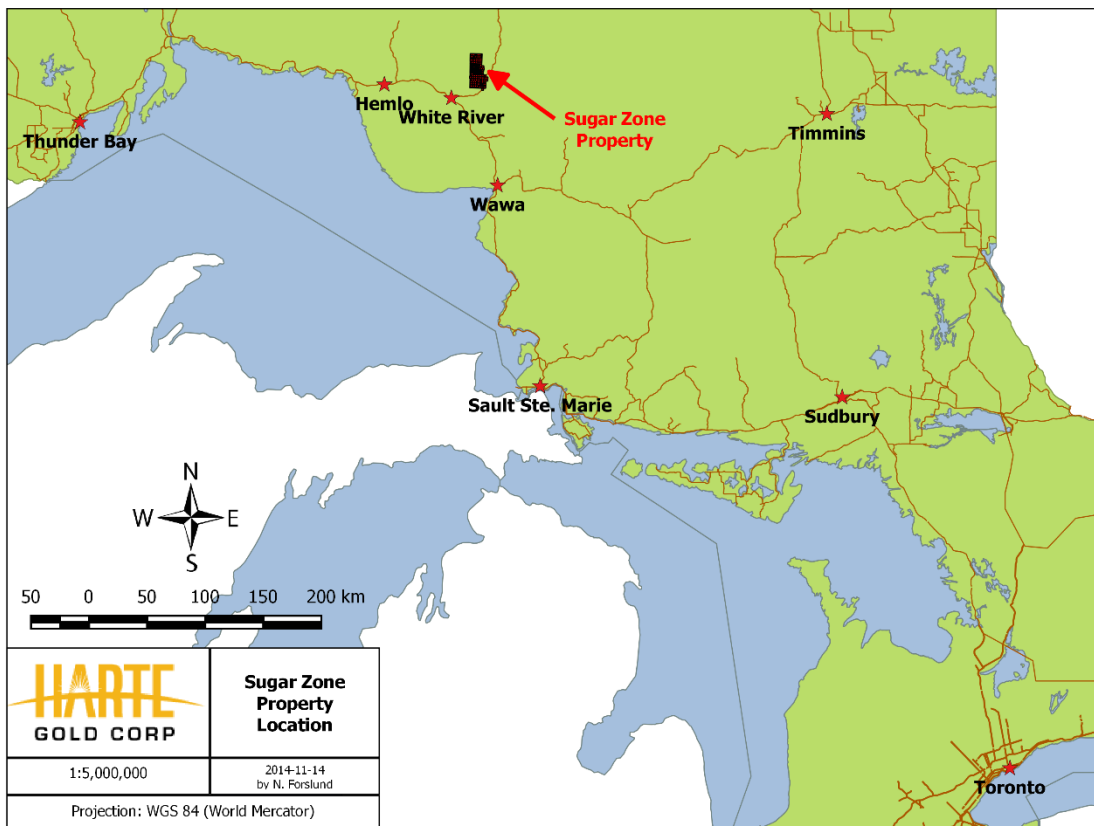


Figure 1 - Property Location

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 Sugar Zone property consists of four mining leases comprising 1467.26 hectares, including 81 boundary cell claims, 47 single cell claims, 197 multi-cell claims (Appendix A). All claims of the Sugar Zone property are held in the name of Harte Gold Corporation. The property boundaries, claim lines, and location of the TT8 and Big Bear Zones 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 Sugar Zone 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.

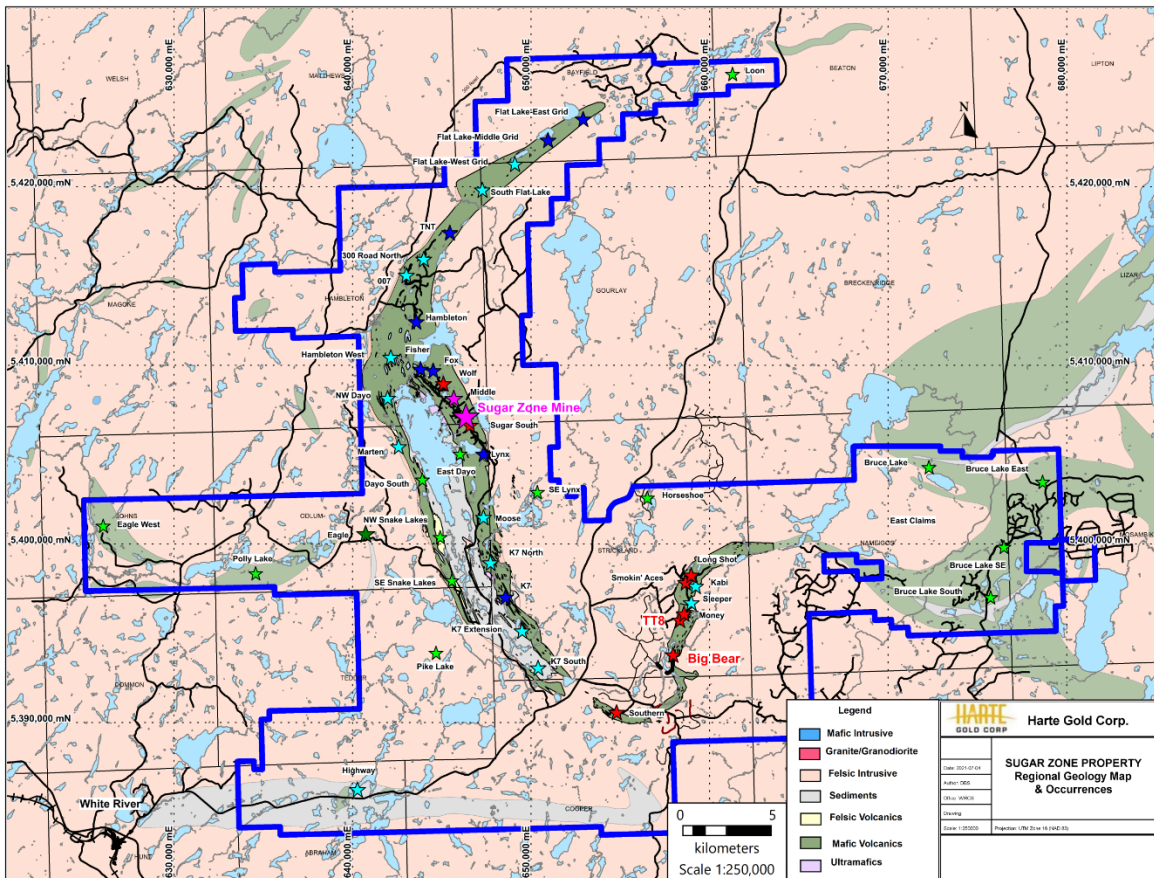


Figure 2 - Claim Position, Regional Geology and Occurrences

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/mine site development 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.Geol. 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 Sugar Zone 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 Sugar Zone 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 successful 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.

2019 Commercial production was officially declared for the sugar zone mine on January 8th 2019 after a successful commissioning period. The start up, commissioning and commercial production was achieved over a duration of three months. Permits initially allowed for 575 tonnes per day of production but on May 3rd 2019 the Ministry of Energy and Northern Development and Mines and the Ministry of Environment conservation and Parks, issued permits authorizing an increase in mine production to 800 tpd. Production continued to ramp up in the latter half of the year and in August 2019 it was stated that gold production had increased 42% quarter over quarter (Q1 to Q2) to 7754 ounces with an average head grade of 6.01 g/t. The mill processed 53,216 tonnes of ore (591 tpd average) which was a 39% increase quarter over quarter (Q1 to Q2).

On February 20th 2019 an updated NI 43-101 Resource Report based on 90,000 meters of 2018 drilling was released. The report announced indicated mineral resources at 1.1 million ounces grading 8.12 g/t Au and inferred mineral resources at 558,000 ounces grading 5.88 g/t Au. It also confirmed grade continuity within the sugar zone as well as an extension of mineralization along strike to the Wolf Zone. An updated feasibility study was also subsequently released on April 8th 2019 indicating a probable mineral reserve of 3.9 million tonnes at 7.1 g/t Au.

Near-mine infill drilling continued in 2019 and was focussed on the Middle and Sugar Zone-South areas. Drill results released on August 14th 2019 announced an increase to the mineralized extent of the Sugar Zone; mineralization was extended 300m south along strike and 200m down dip. Mineralized intersections returned values up to 23.59 g/t Au over 2.02 m. An extension of the upper zone along strike and down dip was also announced, further adding to mineable resources.

Regional exploration on the property in 2019 included prospecting, VLF surveys, and diamond drilling (Hambleton Lake, TNT, K7, and Flat Lake areas). Prospecting in the summer has revealed gold zinc and copper values of up to 253 ppb, .79% and .69% respectively north-northeast of the Sugar zone which potentially suggests a trend in excess of 10km. Drilling results from Hambleton Lake and K7 returned anomalous gold values of up to 730 ppb. On December 2nd 2019 Harte

Gold announced the discovery of a new high grade gold showing called the TT8 Zone located approximately 16.5km Southeast of the Sugar Zone. Initial surface chip sampling showed gold values from 11g/t to 247 g/t along a 40 meter strike length hosted in a mafic and greywacke sediments. Hanging wall and footwall samples also ran gold values up to 2.64 g/t. The area had previously been mapped as tonalite by the OGS and is believed to be an extension of the Nameigos Greenstone belt.

2020 Regional exploration on the property in 2020 was focused predominately on the TT8 Zone and surrounding area. Work completed included diamond drilling, soil sampling, geophysical surveys, and prospecting. Drill results from the winter 2020 drill program were positive with the TT8 quartz vein intersected in 13 of the 15 holes drilled. Highlights of the drill assays include 11.14 g/t Au over 1.18 metres, in TT8-20-01 and 33.1 g/t Au over 0.68 metres in TT8-20-06. This expanded mineralization 300 metres along strike and 600 metres down-dip from the original showing.

On November 12, 2020 Harte Gold announced that summer prospecting had returned five new gold showings on strike with the previously discovered TT8 Showing. These new showings extend the TT8 mineralization trend to 11 km. Initial channel sampling and grab samples from these showings have revealed gold values up to 102 g/t in quartz veins and 2.8 g/t in the hanging and footwall rocks. In addition to this, prospecting also confirmed the connection of the Kabinakagami Lake Greenstone Belt and the Dayohessarah Lake Greenstone Belt via a narrow extension running through the TT8 area.

In **2021** exploration focused on conducting IP-mag surveys along the 11 km of new greenstone belt discovered in 2020, in particular where the six new high-grade gold showings (TT8, Money, Smokin' Aces, Long Shot, Big Bear and Southern) are located. This was followed by drilling 46 holes totalling 4,939 meters primarily along strike and down-dip of the six high-grade gold showings. Multiple IP-mag targets remain to be tested along the 11 km of new greenstone belt. Several high-grade gold intervals were intersected near the Money, TT8 and Big Bear showings. During 2021 additional drill programs were conducted at the 007, Fisher, Hambleton, K7 South and Lynx Zones. Prospecting was also carried out on all 142.9 line-km of grid lines that were cut in early 2021 for the IP-mag surveying. Prospecting was also carried out in the 007 Zone area. Exsics Exploration also conducted 30 days of prospecting in the Flat Lake area. No significant gold values were obtained from this work. A downhole IP survey was also conducted in four holes located in the Hambleton Zone to follow-up wide zones of pink-brown biotite alteration hosting minor po-py mineralization. This type of alteration and mineralization is present at the Sugar-Middle Zones. A review of the drill hole geochemistry and lithological model for the Sugar Zone deposit was also conducted by Mr. Simon Griffiths, Third Planet Exploration Services Ltd. Mr. Griffiths also reviewed the soil geochemical results from the Hambleton Zone with the intent of finding pathfinder elements to be use during mine and regional exploration. A total of 775 soils samples were also taken by The Haveman Brothers at the Hambleton West grid as follow-up to recommendations made from Mr. Griffiths, Third Planet Exploration. SGS Canada Inc. was also contracted to conduct a lithological model of the Sugar Zone property. Mr. Blair Hrabí, SRK Consulting also conducted detailed structural mapping and interpretation of the TT8, Money and 007 Zones. Pioneer Exploration were contracted to perform detailed drone-mag surveys of the Hambleton, Lynx-K7 and Cigar Lake areas. Mr. Joe Mihelcic, Clearview Geophysics Ltd. conducted a geophysical review of all ground and airborne geophysics conducted on the Sugar Zone property. Limited trenching was also performed at the K7 South and 007 Zones. In the

spring of 2021 Sumac Geomatics Inc. were contracted to perform a property wide LIDAR survey which also included detailed orthophotos. Vancouver Petrographics also performed detailed petrographic work on ten core samples from the TT8 area to assist in determining differences between greywacke sediments and tonalite intrusive in the area.

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).

Alteration throughout the belt consists of diopsidation, 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.

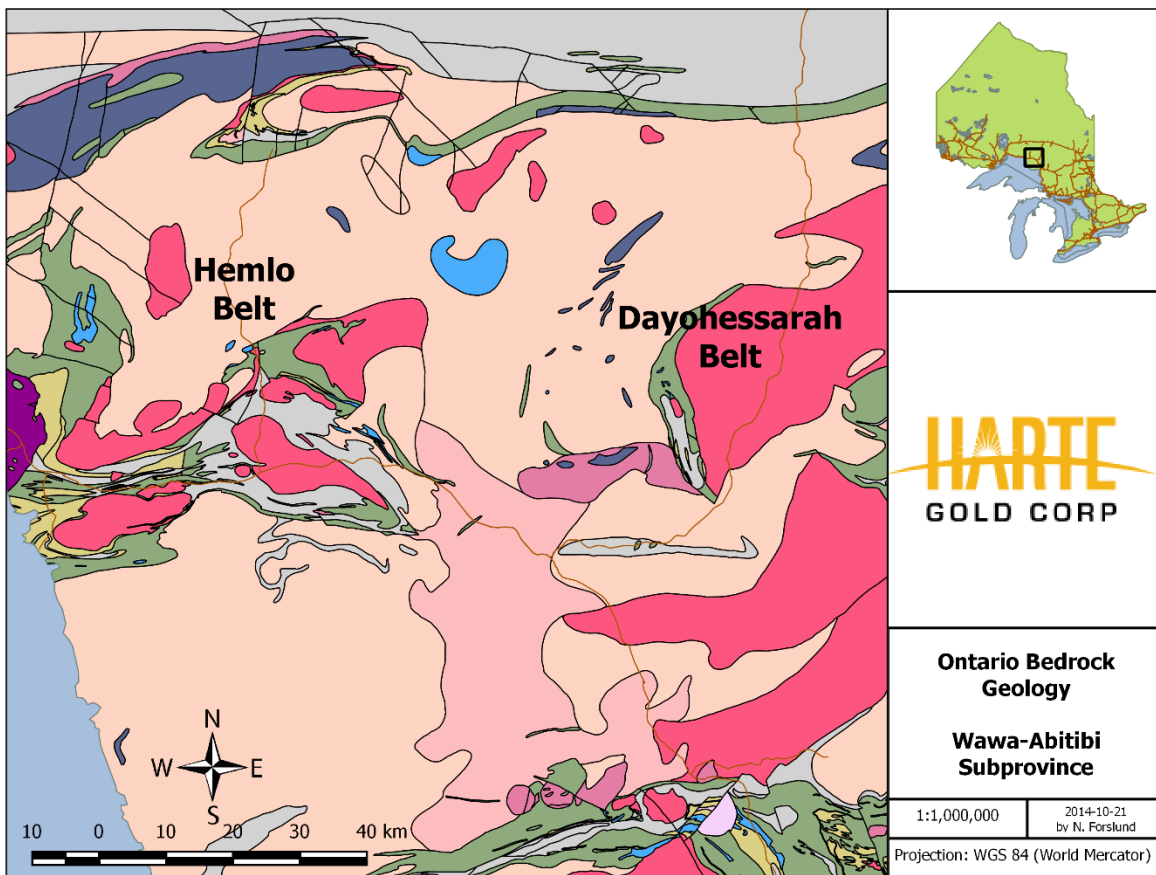


Figure 3 - Regional Geology

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.

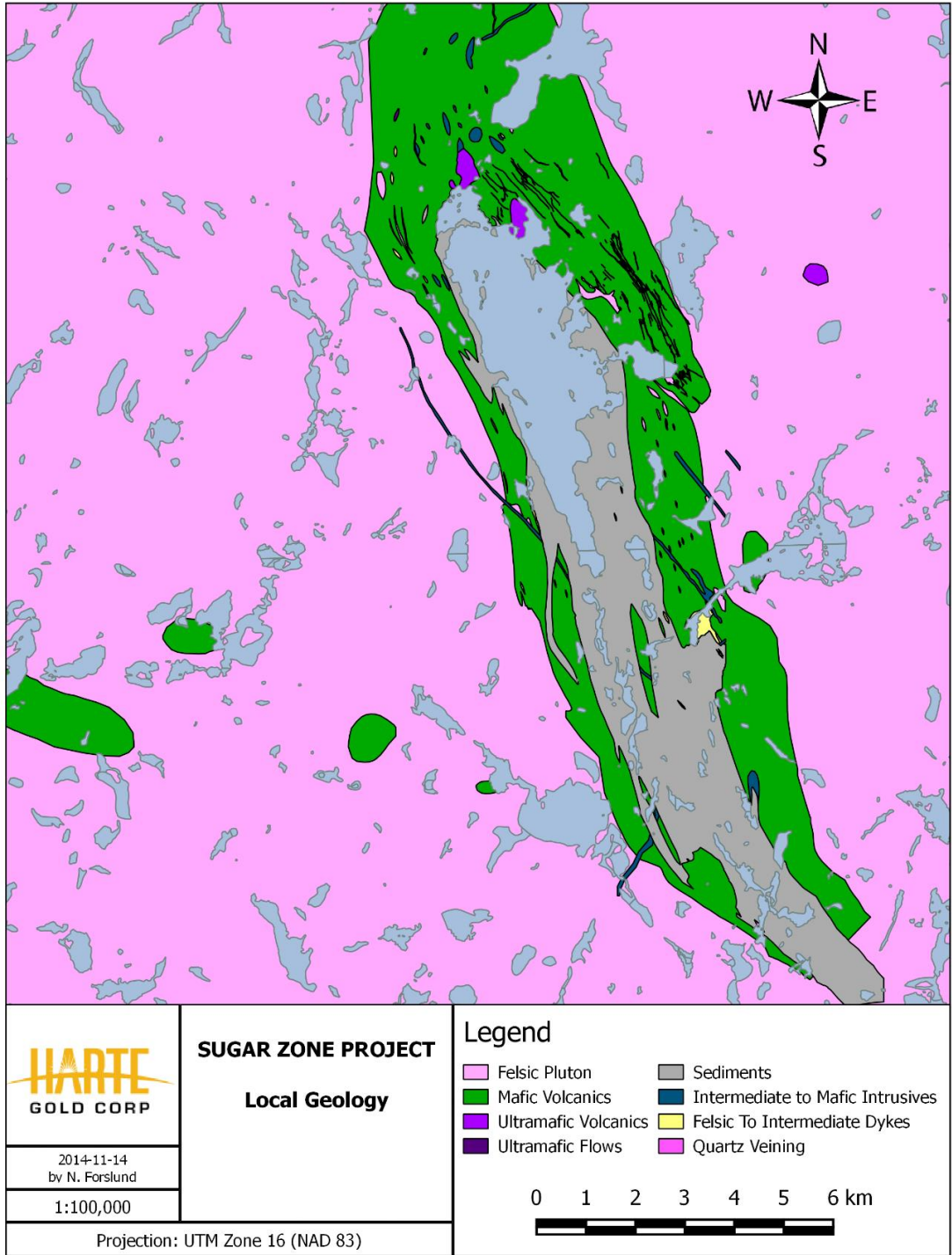


Figure 4 - Property Geology

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.

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 Southern Zone

The Southern Zone occurs along an EW contact with granite to the north and mafic tuff and interbedded sediment to the south. Anomalous gold values in quartz veins hosted in mafic tuff and sediment outcrop and float have been discovered. Gold values of up to 8.62 g/t Au were obtained from the showing.

6.0 2020-2021 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 10th 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
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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 weighed 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, HClO₄, HNO₃ 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 Limit	Upper Limit	Reported By	Element	Detection Limit	Upper Limit	Reported By
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 ppb	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 2021 Southern Drilling

Between September 22, 2021 to November 09, 2021 Harte Gold Corporation performed a 5-hole, 1,631 meter diamond drill program at the Southern Zone. The Southern Zones is located approximately 19 kilometers southeast of Harte Gold's Sugar Zone Mine on the Sugar Zone property. The property is located in the Dayohessarah Lake area, and is situated 29 km

eastnortheast of White River, Ontario. One drill rig (Drill #5511) was supplied by Foraco Canada Ltd. to perform drilling.

The intent of the Southern drill program was to drill test several, moderate to strong IP chargeability anomalies that are coincident with a linear magnetic high both of which extend to 700 meters along strike. A total of \$347,271 was spent on this drill program which included costs such as drilling, assays and salaries, etc. The average cost per meter was \$212.92.

Table 1 – Southern Zone – Drill Hole Summary Table

# of Holes	Hole ID	Easting	Northing	Dip	Azimuth	Length (m)	Claim #
1	SOU-21-01	654725.09	5390369.6	-50	30	333.43	531117
2	SOU-21-02	654815.89	5390357.26	-50	30	337	531117
3	SOU-21-03	654646.2	5390442.9	-50	30	330	531117
4	SOU-21-04	654907.54	5390306.89	-50	30	330	531117
5	SOU-21-05	654466.42	5390570.64	-50	30	300.5	531117
					Total:	1630.93	

A geological legend, drill logs, plans and cross sections for all holes are presented in Appendix B, Appendix C, Appendix D and Appendix E, respectively.

6.4 Results

A high of 1.09 g/t Au over 0.65 meters from 273.50-274.15 meters was encountered in SOU-21-02. Additionally, 0.63 g/t Au over 0.30 meters from 234.70-235.00 meters was also encountered in SOU-21-03.

A total of 1,023 core samples were collected and 1,024 analysis were performed for gold by fire assay AA, gravimetric or metallic method. If any fire assay AA finished with a value of over 3 g/t or 10 g/t Au, it would be re-assayed by gravimetric finish or screen metallic assay respectively. In addition, 18 samples were also analysed by the Ultratrace 6, 61 element “near total digestion” ICP, ICP/MS method.

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

Table 2 provides a summary of the assay results per hole.

Table 2 – Southern Zone – Assay Results Per Hole

	Hole #	Zone	Au g/t	Width (m)	From (m)	To (m)
1	SOU-21-01	Southern	NSA			
2	SOU-21-02	Southern	1.09	273.5	274.15	0.65
3	SOU-21-03	Southern	0.63	234.7	235	0.3
4	SOU-21-04	Southern	NSA			
5	SOU-21-05	Southern	0.34	111.24	111.54	0.3
NSA - no significant assays						

Detailed assay results can be found in the drill Logs attached in Appendix C and drill certificates from Actlabs can be found in Appendix F. Actlabs invoices are found in Appendix G. Foraco Canada Ltd. invoices are in Appendix H.

7.0 Conclusions and Recommendations

Between September 22, 2021 to November 09, 2021 Harte Gold Corporation performed a 5-hole, 1,631 meter diamond drill program at the Southern Zone.

Weak gold values were encountered in quartz veins hosted within mafic tuff and granodiorite located near the mafic tuff/greywacke and granite contact.

All drilling intersected the same sequence of rock types beginning with mainly greywacke sediments followed by mafic tuff and then ending it tonalite and/or granite. The greywacke and mafic tuffs are frequently cross-cut by numerous granite, pegmatite and feldspar porphyry dykes and sills.

8.0 Costs

A total of \$347,271 was spent at the Southern Zone drill program. Costs and cost distribution per claim are summarized in Tables 3 and 4. Drilling invoice and analytical cost summaries are provided in Tables 5 and 6, respectively.

Table 3 – Southern Zone - Summary of Costs

Activity	Units	Cost per Unit	Total	%
Drilling (5 holes)	1631 meters	\$108.18	\$240,624	69%
Planning/Supervision	49 days	\$692.28	\$33,922	10%
Drill Geologist	49 days	\$285.56	\$13,992	4%
Core Cutter	49 days	\$220.00	\$10,780	3%
Assays	1023 samples	\$33.76	\$34,567	10%
Truck (68 km x 3 trips/hole)	1020 kilometers	\$0.50	\$510	0%
R&B - Supervisor	49 days	\$89.00	\$4,361	1%
R&B - Geologist	49 days	\$89.00	\$4,361	1%
Report Writing	6 days	\$692.28	\$4,154	1%
Total Program Cost			\$347,271	100%
		Average \$/m	\$212.92	

Table 4 – Southern Zone - Cost Per Claim

	Grouped Claim Number	
	531117	
Total Meters/ Claim	1631	1631
% of Total Meterage/Claim	100%	100%
Activity		Total Cost
Drilling (5 holes)	\$240,624	\$240,624
Planning/Supervision	\$33,922	\$33,922
Drill Geologist	\$13,992	\$13,992
Core Cutter	\$10,780	\$10,780
Assays	\$34,567	\$34,567
Truck (88 km x 3 trips/hole)	\$510	\$510
R&B - Supervisor	\$4,361	\$4,361
R&B - Geologist	\$4,361	\$4,361
Report Writing	\$4,154	\$4,154
Total Cost/Claim	\$347,271	\$347,271

Table 5 – Southern Zone - DDH Program Cost Summary

	DDH & Cost Item	Invoice Cost	Total Meters	\$/Meter	Invoice #	Claim #	m/Claim
1	SOU-21-01						
	NW casing	\$3,867.00					
	NQ drilling	\$23,249.50					
	Reflex tests/rental	\$3,650.00					
	Operating Hours	\$6,127.50					
	Standby Hours						
	Man Hours						
	Powder Polymer	\$1,410.00					
	Dozer Hours	\$2,145.00					
	Cost Plus 15%	\$4,190.60					
	Total Cost for hole	\$44,639.60	333.43	\$133.88	2110543	531117	333.43
2	SOU-21-02						
	NW casing	\$5,334.00					
	NQ drilling	\$23,980.00					
	Reflex tests/rental	\$3,650.00					
	Operating Hours	\$15,390.00					
	Standby Hours	\$1,300.00					
	Man Hours	\$2,635.00					
	Powder Polymer	\$705.00					
	Dozer Hours	\$4,207.50					
	Cost Plus 15%	\$6,276.70					
	Total Cost for hole	\$63,478.20	337	\$188.36	2109511, 2110543	531117	337
3	SOU-21-03						
	NW casing	\$1,880.00					
	NQ drilling	\$23,811.00					
	Reflex tests/rental						
	Operating Hours	\$4,417.50					
	Standby Hours						
	Man Hours						
	Powder Polymer	\$705.00					
	Dozer Hours						
	Cost Plus 15%						
	Total Cost for hole	\$30,813.50	330	\$93.37	2110574	531117	330
4	SOU-21-04						
	NW casing	\$2,335.00					
	NQ drilling	\$23,811.00					
	Reflex tests/rental	\$3,650.00					
	Operating Hours	\$8,550.00					
	Standby Hours						
	Man Hours	\$1,700.00					
	Powder Polymer	\$940.00					
	Dozer Hours	\$825.00					
	Cost Plus 15%	\$9,971.65					
	Total Cost for hole	\$51,782.65	330	\$156.92	2111615	531117	330
5	SOU-21-05						
	NW casing	\$1,472.50					
	NQ drilling	\$21,580.50					
	Reflex tests/rental	\$3,650.00					
	Operating Hours	\$4,560.00					
	Standby Hours						
	Man Hours						
	Powder Polymer	\$1,175.00					
	Dozer Hours	\$1,072.50					
	Cost Plus 15%	\$16,399.90					
	Total Cost for hole	\$49,910.40	300.5	\$166.09	2110574, 2111615	531117	300.5
	Total Cost	\$240,624.35					
	Total Meterage		1630.93				
	Average Cost/Meter			\$147.54			

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, 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 18^h day of March 2022 at Thunder Bay, Ontario.



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

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
	MOSAMBIK	532869	Multi-cell Mining Claim	2021-04-10	8000	0
	NAMEIGOS	531281	Multi-cell Mining Claim	2021-04-10	10000	0
	NAMEIGOS	531282	Multi-cell Mining Claim	2021-04-10	9600	1753
	NAMEIGOS	531289	Multi-cell Mining Claim	2021-04-10	5600	2238
	NAMEIGOS	531331	Multi-cell Mining Claim	2021-04-10	7600	2016
	NAMEIGOS,STRICKLAND	531280	Multi-cell Mining Claim	2021-04-10	9600	0
	NAMEIGOS	514033	Single Cell Mining Claim	2021-04-10	400	0
	NAMEIGOS	514035	Single Cell Mining Claim	2021-04-10	400	0
	COOPER,STRICKLAND	531165	Multi-cell Mining Claim	2021-04-10	5200	1331
	HAMBLETON	531227	Multi-cell Mining Claim	2021-04-10	5600	1553
	HAMBLETON	531248	Multi-cell Mining Claim	2021-04-10	10000	0
	HAMBLETON	531265	Multi-cell Mining Claim	2021-04-10	10000	0
	HAMBLETON	531266	Multi-cell Mining Claim	2021-04-10	5600	0
	HAMBLETON	531267	Multi-cell Mining Claim	2021-04-10	5600	0
	ODLUM	531183	Multi-cell Mining Claim	2021-04-10	9600	1370
	ODLUM	531198	Multi-cell Mining Claim	2021-04-10	7600	3217
	ODLUM,STRICKLAND	531184	Multi-cell Mining Claim	2021-04-10	9600	2087
	ODLUM,STRICKLAND	531197	Multi-cell Mining Claim	2021-04-10	9600	3658
	ODLUM,STRICKLAND,TEDDER	531175	Multi-cell Mining Claim	2021-04-10	10000	187
	STRICKLAND	531157	Multi-cell Mining Claim	2021-04-10	10000	5781
	STRICKLAND,TEDDER	531169	Multi-cell Mining Claim	2021-04-10	8800	5224
	STRICKLAND,TEDDER	531171	Multi-cell Mining Claim	2021-04-10	8800	4401
	HAMBLETON	531254	Multi-cell Mining Claim	2021-06-13	9600	0
	HAMBLETON	531255	Multi-cell Mining Claim	2021-06-13	10000	0
	HAMBLETON	531256	Multi-cell Mining Claim	2021-06-13	10000	583
	HAMBLETON	531258	Multi-cell Mining Claim	2021-06-13	4800	0
	HAMBLETON	531269	Multi-cell Mining Claim	2021-06-13	1200	0
	NAMEIGOS	531335	Multi-cell Mining Claim	2021-06-13	10000	0
	NAMEIGOS	531340	Multi-cell Mining Claim	2021-06-13	6800	33
	NAMEIGOS	531342	Multi-cell Mining Claim	2021-06-13	8000	0
	NAMEIGOS	531343	Multi-cell Mining Claim	2021-06-13	8000	0
	NAMEIGOS	531344	Multi-cell Mining Claim	2021-06-13	7200	2174
4260661	ODLUM	205218	Boundary Cell Mining Claim	2021-06-20	200	0
4260665	ODLUM	236538	Boundary Cell Mining Claim	2021-06-20	200	837
4284301	ODLUM	113014	Boundary Cell Mining Claim	2021-06-20	200	374
4284301	ODLUM	323310	Boundary Cell Mining Claim	2021-06-20	200	832
	JOHNS	530313	Multi-cell Mining Claim	2021-06-20	6400	2174
	JOHNS	530314	Multi-cell Mining Claim	2021-06-20	6400	940
	JOHNS	530315	Multi-cell Mining Claim	2021-06-20	7200	4533
	JOHNS	530316	Multi-cell Mining Claim	2021-06-20	10000	0
	JOHNS	530317	Multi-cell Mining Claim	2021-06-20	7200	0
	JOHNS	531017	Multi-cell Mining Claim	2021-06-20	9600	5604
	JOHNS	531018	Multi-cell Mining Claim	2021-06-20	10000	0
	JOHNS,ODLUM	530318	Multi-cell Mining Claim	2021-06-20	7200	0
	JOHNS,ODLUM	531019	Multi-cell Mining Claim	2021-06-20	9600	0
	JOHNS,ODLUM	531020	Multi-cell Mining Claim	2021-06-20	10000	0
	ODLUM	531016	Multi-cell Mining Claim	2021-06-20	10000	0

	ODLUM	531021	Multi-cell Mining Claim	2021-06-20	10000	455
	ODLUM	531024	Multi-cell Mining Claim	2021-06-20	10000	0
	ODLUM	531025	Multi-cell Mining Claim	2021-06-20	9600	0
	ODLUM,TEDDER	531022	Multi-cell Mining Claim	2021-06-20	8800	247
	ODLUM,TEDDER	531023	Multi-cell Mining Claim	2021-06-20	9600	89
	ODLUM	531201	Multi-cell Mining Claim	2021-10-29	2000	398
	STRICKLAND	531162	Multi-cell Mining Claim	2020-11-16	9600	0
	STRICKLAND	531168	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531177	Multi-cell Mining Claim	2020-11-16	9600	0
	STRICKLAND	531178	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531180	Multi-cell Mining Claim	2020-11-16	9200	0
	STRICKLAND	531271	Multi-cell Mining Claim	2020-11-16	8000	0
	STRICKLAND	531273	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531274	Multi-cell Mining Claim	2020-11-16	10000	0
	STRICKLAND	531275	Multi-cell Mining Claim	2020-11-16	8400	2439
	STRICKLAND	531278	Multi-cell Mining Claim	2020-11-16	800	0
	GOURLAY	531220	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY	531225	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY	531229	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY	531231	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON	531224	Multi-cell Mining Claim	2020-12-03	9600	0
	GOURLAY,HAMBLETON	531226	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON	531230	Multi-cell Mining Claim	2020-12-03	8800	0
	GOURLAY,HAMBLETON	531243	Multi-cell Mining Claim	2020-12-03	10000	0
	GOURLAY,HAMBLETON,STRICKLAND	531222	Multi-cell Mining Claim	2020-12-03	6200	0
	GOURLAY,STRICKLAND	531221	Multi-cell Mining Claim	2020-12-03	10000	0
	HAMBLETON	531228	Multi-cell Mining Claim	2020-12-03	6000	0
	ODLUM,STRICKLAND	531270	Multi-cell Mining Claim	2020-12-03	5000	0
	STRICKLAND	531167	Multi-cell Mining Claim	2020-12-03	8400	0
	STRICKLAND	531170	Multi-cell Mining Claim	2020-12-03	9200	0
	STRICKLAND	531176	Multi-cell Mining Claim	2020-12-03	10000	0
	STRICKLAND	531179	Multi-cell Mining Claim	2020-12-03	8400	0
	STRICKLAND	531181	Multi-cell Mining Claim	2020-12-03	9600	0
	STRICKLAND	531185	Multi-cell Mining Claim	2020-12-03	9600	0
	STRICKLAND	531195	Multi-cell Mining Claim	2020-12-03	8800	0
	STRICKLAND	531196	Multi-cell Mining Claim	2020-12-03	8800	0
	STRICKLAND	531223	Multi-cell Mining Claim	2020-12-03	7400	0
	STRICKLAND	531272	Multi-cell Mining Claim	2020-12-03	1200	0
4260617	STRICKLAND	110507	Single Cell Mining Claim	2020-12-03	200	0
	BAYFIELD,HAMBLETON,MATTHEWS	531242	Multi-cell Mining Claim	2020-12-17	8000	0
	GOURLAY,HAMBLETON	531241	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531244	Multi-cell Mining Claim	2020-12-17	10000	0
	HAMBLETON	531245	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531246	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531247	Multi-cell Mining Claim	2020-12-17	9600	0
	HAMBLETON	531264	Multi-cell Mining Claim	2020-12-17	9600	0
	BAYFIELD	531235	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531236	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531237	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD	531238	Multi-cell Mining Claim	2020-12-22	9200	0
	BAYFIELD	531239	Multi-cell Mining Claim	2020-12-22	1600	0
	BAYFIELD,GOURLAY	531233	Multi-cell Mining Claim	2020-12-22	10000	0
	BAYFIELD,GOURLAY	531234	Multi-cell Mining Claim	2020-12-22	8000	0
	BAYFIELD,GOURLAY,HAMBLETON	531240	Multi-cell Mining Claim	2020-12-22	9600	0
	GOURLAY	531232	Multi-cell Mining Claim	2020-12-22	9600	0
4260661	ODLUM	137166	Boundary Cell Mining Claim	2020-12-23	200	930
4260661	ODLUM	156716	Boundary Cell Mining Claim	2020-12-23	200	548
4260661	ODLUM	142645	Boundary Cell Mining Claim	2020-12-23	200	151
4260664	ODLUM	308490	Boundary Cell Mining Claim	2020-12-23	200	111
4260664	ODLUM	168606	Boundary Cell Mining Claim	2020-12-23	200	174
4260665	ODLUM	112652	Boundary Cell Mining Claim	2020-12-23	200	0
4260665	ODLUM	199956	Boundary Cell Mining Claim	2020-12-23	200	298
4260665	ODLUM	155301	Boundary Cell Mining Claim	2020-12-23	200	236
	HAMBLETON	531210	Multi-cell Mining Claim	2020-12-23	6800	6082

	HAMBLETON	531249	Multi-cell Mining Claim	2020-12-23	1200	0
	HAMBLETON	531257	Multi-cell Mining Claim	2020-12-23	10000	0
	HAMBLETON	531268	Multi-cell Mining Claim	2020-12-23	4000	0
	HAMBLETON,ODLUM	531209	Multi-cell Mining Claim	2020-12-23	2400	1604
	ODLUM	531026	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531182	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531199	Multi-cell Mining Claim	2020-12-23	800	0
	ODLUM	531200	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531027	Multi-cell Mining Claim	2020-12-23	9600	0
	ODLUM, TEDDER	531154	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531173	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM, TEDDER	531174	Multi-cell Mining Claim	2020-12-23	9600	0
	STRICKLAND, TEDDER	531156	Multi-cell Mining Claim	2020-12-23	10000	0
	TEDDER	531031	Multi-cell Mining Claim	2020-12-23	9600	0
	TEDDER	531153	Multi-cell Mining Claim	2020-12-23	8800	0
	TEDDER	531155	Multi-cell Mining Claim	2020-12-23	10000	0
	TEDDER	531172	Multi-cell Mining Claim	2020-12-23	10000	0
	ODLUM	531203	Multi-cell Mining Claim	2020-12-31	7000	0
	ODLUM	531204	Multi-cell Mining Claim	2020-12-31	3800	0
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4288587	NAMEIGOS	170388	Boundary Cell Mining Claim	2021-01-08	200	0
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4288589	NAMEIGOS	220373	Single Cell Mining Claim	2021-01-08	400	423
4288589	NAMEIGOS	208958	Single Cell Mining Claim	2021-01-08	400	0
4288231	NAMEIGOS	104062	Boundary Cell Mining Claim	2021-01-09	200	0
4288231	NAMEIGOS	225048	Boundary Cell Mining Claim	2021-01-09	200	0
4288231	NAMEIGOS	159665	Boundary Cell Mining Claim	2021-01-09	200	0
	ABRAHAM, COOPER, TEDDER	531096	Multi-cell Mining Claim	2021-01-09	10000	0
	ABRAHAM, TEDDER	531094	Multi-cell Mining Claim	2021-01-09	10000	0
	ABRAHAM, TEDDER	531095	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER	531112	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER	531139	Multi-cell Mining Claim	2021-01-09	9200	0
	COOPER	531163	Multi-cell Mining Claim	2021-01-09	6000	0
	COOPER, STRICKLAND	531166	Multi-cell Mining Claim	2021-01-09	800	0
	COOPER, STRICKLAND, TEDDER	531152	Multi-cell Mining Claim	2021-01-09	6800	0
	COOPER, TEDDER	531097	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER, TEDDER	531100	Multi-cell Mining Claim	2021-01-09	9600	0
	COOPER, TEDDER	531111	Multi-cell Mining Claim	2021-01-09	10000	0
	COOPER, TEDDER	531151	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK	531287	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK	531348	Multi-cell Mining Claim	2021-01-09	8800	0

	MOSAMBIK,NAMEIGOS	531286	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK,NAMEIGOS	531288	Multi-cell Mining Claim	2021-01-09	8400	0
	MOSAMBIK,NAMEIGOS	531347	Multi-cell Mining Claim	2021-01-09	10000	0
	MOSAMBIK,NAMEIGOS	531349	Multi-cell Mining Claim	2021-01-09	6400	0
	MOSAMBIK,NAMEIGOS	531350	Multi-cell Mining Claim	2021-01-09	10000	0
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	NAMEIGOS	531285	Multi-cell Mining Claim	2021-01-09	10000	0
	NAMEIGOS	531351	Multi-cell Mining Claim	2021-01-09	9600	0
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	TEDDER	531046	Multi-cell Mining Claim	2021-01-09	8800	0
	TEDDER	531047	Multi-cell Mining Claim	2021-01-09	9600	0
	TEDDER	531079	Multi-cell Mining Claim	2021-01-09	9200	0
	TEDDER	531098	Multi-cell Mining Claim	2021-01-09	9600	0
	TEDDER	531099	Multi-cell Mining Claim	2021-01-09	9600	0
	COOPER	531126	Single Cell Mining Claim	2021-01-09	400	0
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04288250	MOSAMBIK	273605	Single Cell Mining Claim	2021-01-09	400	0
04288250	MOSAMBIK	153728	Single Cell Mining Claim	2021-01-09	400	0
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4288237	MOSAMBIK	226382	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	188477	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK	170250	Single Cell Mining Claim	2021-01-09	400	0
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4288249	MOSAMBIK	336697	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	276267	Single Cell Mining Claim	2021-01-09	400	0
4288249	MOSAMBIK	221060	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK,NAMEIGOS	344618	Single Cell Mining Claim	2021-01-09	400	0
4288237	MOSAMBIK,NAMEIGOS	265657	Single Cell Mining Claim	2021-01-09	400	0
4288230	NAMEIGOS	103256	Single Cell Mining Claim	2021-01-09	400	0
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4288232	NAMEIGOS	102261	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	276303	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	229063	Single Cell Mining Claim	2021-01-09	400	0
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4288232	NAMEIGOS	170953	Single Cell Mining Claim	2021-01-09	400	0
4288232	NAMEIGOS	118285	Single Cell Mining Claim	2021-01-09	400	0
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4288233	NAMEIGOS	170954	Single Cell Mining Claim	2021-01-09	400	0
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4288233	NAMEIGOS	118287	Single Cell Mining Claim	2021-01-09	400	0
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	NAMEIGOS	531291	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531292	Single Cell Mining Claim	2021-01-09	400	0
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	NAMEIGOS	531294	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531295	Single Cell Mining Claim	2021-01-09	400	0
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	NAMEIGOS	531298	Single Cell Mining Claim	2021-01-09	400	0
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	NAMEIGOS	531301	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531302	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531304	Single Cell Mining Claim	2021-01-09	400	0
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	NAMEIGOS	531309	Single Cell Mining Claim	2021-01-09	400	0
	NAMEIGOS	531316	Single Cell Mining Claim	2021-01-09	400	0











	NAMEIGOS	531317	Single Cell Mining Claim	2021-01-09	400	0
	COOPER	531115	Multi-cell Mining Claim	2021-01-10	9200	0
	COOPER	531116	Multi-cell Mining Claim	2021-01-10	9600	0
	COOPER	531117	Multi-cell Mining Claim	2021-01-10	10000	0
	COOPER	531118	Multi-cell Mining Claim	2021-01-10	10000	0
	COOPER,STRICKLAND	531119	Multi-cell Mining Claim	2021-01-10	8000	0
	COOPER,STRICKLAND	531120	Multi-cell Mining Claim	2021-01-10	6000	0
	COOPER,STRICKLAND	531121	Multi-cell Mining Claim	2021-01-10	6400	0
	COOPER,STRICKLAND	531164	Multi-cell Mining Claim	2021-01-10	7200	0
	ABRAHAM	531086	Multi-cell Mining Claim	2021-01-18	9600	0
	ABRAHAM,COOPER	531087	Multi-cell Mining Claim	2021-01-18	9600	0
4281802	NAMEIGOS	134919	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	302908	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	281507	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	151061	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	150356	Boundary Cell Mining Claim	2021-02-16	200	0
4281802	NAMEIGOS	141005	Boundary Cell Mining Claim	2021-02-16	200	1139
4281805	NAMEIGOS	122945	Boundary Cell Mining Claim	2021-02-16	200	0
4281805	NAMEIGOS	290157	Boundary Cell Mining Claim	2021-02-16	200	0
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4285672	NAMEIGOS	344511	Boundary Cell Mining Claim	2021-02-16	200	0
4285672	NAMEIGOS	238950	Boundary Cell Mining Claim	2021-02-16	200	0
	NAMEIGOS	531332	Multi-cell Mining Claim	2021-02-16	9600	768
	NAMEIGOS	531333	Multi-cell Mining Claim	2021-02-16	4800	0
	NAMEIGOS	531334	Multi-cell Mining Claim	2021-02-16	10000	0
	NAMEIGOS	531336	Multi-cell Mining Claim	2021-02-16	9200	0
	NAMEIGOS	531337	Multi-cell Mining Claim	2021-02-16	9200	0
	NAMEIGOS	531338	Multi-cell Mining Claim	2021-02-16	9600	0
	NAMEIGOS	531341	Multi-cell Mining Claim	2021-02-16	800	0
	NAMEIGOS	531345	Multi-cell Mining Claim	2021-02-16	800	0
	NAMEIGOS	531346	Multi-cell Mining Claim	2021-02-16	1600	496
	ABRAHAM	531081	Multi-cell Mining Claim	2021-02-22	10000	0
	ABRAHAM	531082	Multi-cell Mining Claim	2021-02-22	9600	0
	ABRAHAM	531083	Multi-cell Mining Claim	2021-02-22	9600	0
	ABRAHAM,TEDDER	531048	Multi-cell Mining Claim	2021-02-22	9000	859
	ABRAHAM,TEDDER	531080	Multi-cell Mining Claim	2021-02-22	9600	0
	NAMEIGOS,STRICKLAND	531276	Multi-cell Mining Claim	2021-02-22	10000	0
	NAMEIGOS,STRICKLAND	531279	Multi-cell Mining Claim	2021-02-22	4000	0
	STRICKLAND	531160	Multi-cell Mining Claim	2021-02-22	8400	0
	STRICKLAND	531161	Multi-cell Mining Claim	2021-02-22	8400	0
	STRICKLAND	531277	Multi-cell Mining Claim	2021-02-22	7200	0
	ABRAHAM,COOPER	531084	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531085	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531088	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531089	Multi-cell Mining Claim	2021-03-10	8000	0
	COOPER	531090	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531091	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531092	Multi-cell Mining Claim	2021-03-10	9600	0
	COOPER	531093	Multi-cell Mining Claim	2021-03-10	10000	0
	COOPER	531113	Multi-cell Mining Claim	2021-03-10	10000	0
	COOPER	531114	Multi-cell Mining Claim	2021-03-10	10000	0
	ODLUM	531205	Multi-cell Mining Claim	2021-03-27	4800	278
	HAMBLETON,ODLUM	531206	Multi-cell Mining Claim	2021-04-26	8200	345634
	BAYFIELD	549597	Multi-cell Mining Claim	2021-05-10	9600	0
	BAYFIELD	549623	Multi-cell Mining Claim	2021-05-10	9200	0
	BAYFIELD	549624	Multi-cell Mining Claim	2021-05-10	9600	0
	BAYFIELD	549625	Multi-cell Mining Claim	2021-05-10	8800	0
	BAYFIELD,BEATON	549626	Multi-cell Mining Claim	2021-05-10	9200	0

	BAYFIELD,BEATON	549916	Multi-cell Mining Claim	2021-05-10	10000	0
	ODLUM	531207	Multi-cell Mining Claim	2021-07-02	1600	36193
	HAMBLETON	531214	Multi-cell Mining Claim	2021-07-20	2400	105705
	GOURLAY,HAMBLETON	531219	Multi-cell Mining Claim	2021-11-20	9200	11993
	HAMBLETON	531211	Multi-cell Mining Claim	2021-12-23	3200	2381
	ODLUM	531202	Multi-cell Mining Claim	2021-12-23	9200	19310
	HAMBLETON	531212	Multi-cell Mining Claim	2021-12-31	7200	47190
	HAMBLETON	531215	Multi-cell Mining Claim	2021-12-31	3600	211070
	HAMBLETON	531216	Multi-cell Mining Claim	2021-12-31	1000	467817
	HAMBLETON	531217	Multi-cell Mining Claim	2021-12-31	2200	342089
	HAMBLETON	531218	Multi-cell Mining Claim	2021-12-31	1800	126580
	HAMBLETON,ODLUM	531208	Multi-cell Mining Claim	2021-12-31	5200	9687
	HAMBLETON	531259	Multi-cell Mining Claim	2022-12-23	1200	851
	COOPER	564960	Multi-cell Mining Claim	11/29/2021	Active	100
	COOPER,					
	DOUCETT	564961	Multi-cell Mining Claim	11/29/2021	Active	100
	COOPER,					
	DOUCETT,	564909	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND					
	COOPER, STRICKLAND	564959	Multi-cell Mining Claim	11/29/2021	Active	100
	DOUCETT, NAMEIGOS	565900	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS	564962	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS	565901	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND	564908	Multi-cell Mining Claim	11/29/2021	Active	100
	NAMEIGOS, STRICKLAND	564963	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564958	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564964	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564965	Multi-cell Mining Claim	11/29/2021	Active	100
	STRICKLAND	564966	Multi-cell Mining Claim	11/29/2021	Active	100











Appendix B – Southern Zone – Geological Legend

GEOLOGICAL LEGEND









Mafic Intrusives









-  7A-Diabase
-  7B-Diorite
-  7C-Lamprophyre
-  6A-Diorite
-  6B-Gabbro
-  6C-Amphibillite
-  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

Appendix C – Southern Zone – 2021 Drill Logs

		Hole Number:		SOU-21-01			
		Drill Rig:		Foraco #5511			
		Claim Number:		531117			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				10/05/2021		10/09/2021	
Planned Coordinates		Azimuth:	30	Drill Contractor:		Foraco Canada Ltd.	
Easting	654718						
Northing	5390379	Dip:	-50	Dates Logged:		Start Date:	End Date:
Elevation(m)	410					10/05/2021	
Final Pick up		Depth(m):	333.43	Logger 1:		Luc Roy	
Easting	654725.09			Logger 2:			
Northing	5390369.602	Core Size:		Logger 3:			
Elevation(m)	412.98			Assay Lab:		Actlabs	
Casing							
Purpose of Hole	Following up on the high-grade surface showing (Southern Showing).	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		96	28.41	-51.53	56124		36.01
		120	30.18	-50.75	56293		37.78
		150	30.2	-50.36	55790		37.8
		180	29.04	-49.77	55909		36.64
		210	29.04	-49.53	56130		36.64
		240	30.24	-49.01	56305		37.84
		270	29	-48.44	56109		36.6
		300	30.7	-48.04	56167		38.3
Comments		330	29.07	-47.3	56216		36.67
				-7.6			
				-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
SOU-21-01	0	20.47	CAS	Casing	
SOU-21-01	20.47	21.1	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization.
SOU-21-01	21.1	22.4	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular granodiorite that is cut by many 1-10 cm-wide pegmatites. This unit is intruding the greywacke (cutting the foliation) at its lower contact.
SOU-21-01	22.4	30.7	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization. There are 5-15 cm-wide, sporadically emplaced beds that are characterized by pl-di-amph-bt-qz. The diopside causes these beds to have a greenish hue.
SOU-21-01	30.7	37.58	4E	Pegmatite	Light pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. There is a minor lithology of granodiorite near the bottom of this unit.
SOU-21-01	37.58	39.46	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite. This unit has a 20 cm-wide feldspar porphyry minor unit at its upper contact with the pegmatite. This unit has trace fracture-controlled pyrite in the light grey beds.
SOU-21-01	39.46	41.84	4E	Pegmatite	Light pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture.
SOU-21-01	41.84	50.81	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit has increased di-ep alteration from 41.84-42.00 m at its upper contact with the pegmatite. This unit has sporadically emplaced green beds composed of pl-di-amph-qz-bt with up to 1% fracture-controlled pyrite. This unit is also cut by 5-25 cm-wide granodiorite minor units.
SOU-21-01	50.81	65.8	4E	Pegmatite	Light pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. This unit appears to be characterized by alternating units of pegmatite and light grey-pink, medium- to coarse-grained, massive, equigranular granodiorite.
SOU-21-01	65.8	71.3	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit has 5-15 cm-wide green beds composed of pl-di-amph-qz-bt with up to 0.5% fracture-controlled pyrite from 67.50-69.50 m.

SOU-21-01	71.3	73.13	5B	Granodiorite	Light grey, medium-grained, massive, equigranular qz-fs-bt granodiorite that has its upper and lower contacts with the greywacke represented by minor 15-20 cm-wide pegmatite units.
SOU-21-01	73.13	81.28	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit has 5-25 cm-wide green beds composed of pl-di-amph-qz-bt with up to 1% fracture-controlled pyrite from 73.50-77.35 m and 79.60-81 m. This unit is cut by 5-10 cm-wide pegmatites.
SOU-21-01	81.28	82.61	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite that is cut by a 5 cm-wide pegmatite.
SOU-21-01	82.61	125.56	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit has 5-25 cm-wide green beds composed of pl-di-amph-qz-bt with up to 0.5% fracture-controlled pyrite from 84-89 m. This unit is cut by minor granodiorite and pegmatite units, and has intermittent units of foliated feldspar porphyry.
SOU-21-01	125.56	126.71	5B	Granodiorite	Light blue-grey, fine- to medium-grained, massive, equigranular qz-fs-bt granodiorite or felsite(?) that is cut by 5-10 cm-wide pegmatites.
SOU-21-01	126.71	127.83	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by 1-5 cm-wide pegmatites.
SOU-21-01	127.83	169.62	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite. The upper 75 cm of this unit (127.83-128.55 m) is altered (silicified), and oscillatory zonations are visible in the feldspar grains, where the cores of the grains are white, while the rims are grey. However, there are some grains where there are alternating zones of white and grey. This unit is cut by minor
SOU-21-01	169.62	170.63	4E	Pegmatite	Light pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture.
SOU-21-01	170.63	185.91	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite. This unit is cut by numerous pegmatites ranging from 1 cm-wide, up to 80 cm-

SOU-21-01	185.91	196.57	5B	Granodiorite	Grey, medium-grained, massive, equigranular qz-fs-bt granodiorite that has minor units of pegmatite and the light blue-grey colored granodiorite. The feldspars in this unit appear to have visible oscillatory zonations, transitioning from grey to white layers, indicating changes in feldspar chemistry. The lower 90 cm of this unit appears to have small fragments of greywacke within this granodiorite. The lower contact with the greywacke is irregular and brecciated.
SOU-21-01	196.57	198	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph.
SOU-21-01	198	204	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite. This unit is cut by many minor lithologies of pegmatite, and has a minor unit of greywacke from 201.66-201.82 m. There is a 0.5 cm-wide quartz vein within this greywacke minor unit from 201.81-201.815 m with 1% blebby pyrite within it.
SOU-21-01	204	206.9	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by a 5 cm-wide pegmatite, and has a minor unit of feldspar porphyry. At this units lower contact with the pegmatite, there is an enrichment in biotite, and there are coarse-grained (1-3 cm x 1-3 cm) garnet porphyroblasts.
SOU-21-01	206.9	208.02	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture.
SOU-21-01	208.02	222.73	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. From 215-222.73 m, there is intense fracture-controlled biotite alteration in this unit
SOU-21-01	222.73	223.74	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture.
SOU-21-01	223.74	242.89	3A	Greywacke	Grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by minor pegmatites and has minor units of feldspar porphyry and mafic tuff. This unit has zones of intense fracture-controlled biotite alteration, possibly following the bedding planes, as well as the foliation planes. From 241.65-241.90 m, there is a mafic dyke/lamprophyre that is dark green and bt-chl rich.

SOU-21-01	242.89	244.8	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite. The lower 20 cm of this unit is characterized by a minor unit of bedded greywacke that is getting cut by the pegmatite.
SOU-21-01	244.8	245.94	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. From 244.80-245 m, there is 1% fracture-controlled pyrite.
SOU-21-01	245.94	247	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite.
SOU-21-01	247	249.66	3A	Greywacke	Dark green-grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by 1-5 cm-wide minor units of granodiorite. There is a qz vein from 247.33-247.34 m without sulfides.
SOU-21-01	249.66	252.08	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. There is a minor unit of granodiorite in the upper 70 cm of this unit.
SOU-21-01	252.08	264.06	3A	Greywacke	Dark grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by a series of pegmatites ranging from 1-25 cm-wide. This unit has minor interbeddings of mafic tuff and feldspar porphyry. From 262.54-263.18 m, this unit is cut by a dark green, bt-chl rich mafic dyke/lamprophyre. From 263.37-263.69 m, this unit is cut by a minor unit of granodiorite. There is 3% disseminated pyrite from 262.45-262.54 m, at this units contact with the mafic dyke/lamprophyre. From 259.50-260 m, there are four different 0.5 to 1 cm-wide qz veins with up to 1% pyrite within them.
SOU-21-01	264.06	268.43	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has minor layers/interbeddings of greywacke and feldspar porphyry. This unit is cut by minor granodiorite units. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands.
SOU-21-01	268.43	270.79	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. This unit has a minor mafic tuff unit from 270.05-270.25 m.

SOU-21-01	270.79	271.95	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has minor layers/interbeddings of feldspar porphyry (270.79-271.19 m; 271.72-271.95 m). This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands. This units upper and lower contacts with the granodiorite/pegmatite are both represented by the minor units of feldspar porphyry.
SOU-21-01	271.95	287.25	5B	Granodiorite	Light pink-blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite that is extensively cut by/intergrown with light pink, very coarse-grained qz-fs-bt pegmatite. This unit has sporadically emplaced blebs of pyrite.
SOU-21-01	287.25	289.44	3A	Greywacke	Dark green-grey, fine- to medium-grained, massive to bedded greywacke, primarily composed of qz-fs-bt. This unit has light grey beds composed of feldspar, and dark-grey to black-colored beds composed of biotite-amph. This unit is cut by a 3 cm-wide minor unit of granodiorite. This unit is cut by a minor unit of pegmatite from 288.61-288.95 m.
SOU-21-01	289.44	293.96	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has a minor layer/interbedding of greywacke (290.16-290.44 m). This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands. This unit has a 1 cm-wide foliation parallel qz vein from 291.13-291.14 m.
SOU-21-01	293.96	297.97	4E	Pegmatite	Light grey-pink, coarse-grained, massive qz-fs-bt pegmatite with rare graphic texture. This unit is characterized by the pegmatite, as well as significant sections of a light pinkish-grey, medium-grained, massive, equigranular granodiorite to granite
SOU-21-01	297.97	333.43	5B	Granodiorite	Blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite that is rarely cut by/intergrown with light pink, very coarse-grained qz-fs-bt pegmatite.

		Hole Number:		SOU-21-02			
		Drill Rig:		Foraco #5511			
		Claim Number:		531117			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				09/22/2021		10/04/2021	
Planned Coordinates		Azimuth:	30	Drill Contractor:		Foraco Canada Ltd.	
Easting	654819						
Northing	5390351	Dip:	-50	Dates Logged:		Start Date:	End Date:
Elevation(m)	410					09/26/2021	
Final Pick up		Depth(m):	337.00	Logger 1:		Jeremy Hietala	
Easting	654815.89					Luc Roy	
Northing	5390357.264	Core Size:		Logger 3:			
Elevation(m)	411.83					NQ	
Casing				Assay Lab:		Actlabs	
Purpose of Hole	Follow up on 1.44g/t grab sample at the southern showing.	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		30	30.45	-50.21	56211		38.05
		90	32.21	-48.49	56062		39.81
		120	32.19	-47.45	55746		39.79
		150	31.77	-45.88	55958		39.37
		180	32.61	-45.38	55784		40.21
		210	35.91	-43.94	55808		43.51
		240	34.59	-42.64	55997		42.19
		270	35.3	-42.34	55902		42.9
Comments		300	35.43	-41.8	56142		43.03
		330	35.68	-41.33	55898		43.28
			-7.6				
			-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
SOU-21-02	0	15.66	15.66	OVB	Overburden	
SOU-21-02	15.66	17.7	2.04	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands (3 to 10cm in length). Potential 2-3cm wide fault at 16.84m.
SOU-21-02	17.7	20.27	2.57	5B	Granodiorite	White to light gray, fg to mg, Plag, quartz and bt. narrow pegmatite dykes. No visible sulfides.
SOU-21-02	20.27	23.04	2.77	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands. Narrow quartz vein with trace Py at 21.23m. Two narrow felsic dykes.
SOU-21-02	23.04	24.57	1.53	4B	Feldspar Porphyry	Dark gray, Fg to mg, Biotite, plag and minimal quartz. 1-2 mm faint white plag phenocrysts. Narrow quartz pegmatite vein with trace Po at 23.09m. Trace disseminated sulfides throughout unit.
SOU-21-02	24.57	30.45	5.88	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands. Two small felsic dykes in unit.
SOU-21-02	30.45	38.13	7.68	4E	Pegmatite	Gray/pink/white, cg to vcg, Plag, Kspar, quartz with minimal Bt. No visible sulfides.
SOU-21-02	38.13	42.21	4.08	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands. Small pegmatite vein at 39.81m.
SOU-21-02	42.21	44.4	2.19	4E	Pegmatite	Pink/gray/white, cg to vcg, kspar, Plag and quartz with minimal Bt. No visible sulfides. Ser and Ep alteration along lower contact.
SOU-21-02	44.4	62.95	18.55	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands. Narrow pegmatite dyke at 48.20. Some of the lighter bands show increase in Ep alteration as halos around quartz veins.
SOU-21-02	62.95	63.97	1.02	4E	Pegmatite	Pink/Gray, Cg to Vcg, Kspar, plag and Qt with Bt forming along grain boundaries. No visible sulfides.
SOU-21-02	63.97	66.3	2.33	5B	Granodiorite	Gray to dark gray, fg to mg, Plag, Qtz, with Bt. No visible sulfides. Areas of ~.30m along upper and lower pegmatite contact show K alteration that grade out towards center of unit.
SOU-21-02	66.3	71.31	5.01	4E	Pegmatite	Pink/gray/white, Cg to Vcg, Kspar, plag, Qtz, Bt. Bt appears mainly along grain boundaries of other minerals. No visible sulfides.
SOU-21-02	71.31	72.61	1.3	5B	Granodiorite	Pink/dark gray/white, mg to cg, Plag, Qtz, Bt. Strong K alteration. Plag phenocrysts appear to have halos. No visible sulfides.

SOU-21-02	72.61	79.42	6.81	4E	Pegmatite	Pink/gray/white, Cg to Vcg, Kspar, plag, Qtz, Bt. Bt appears mainly along grain boundaries of other minerals as well as appearing in some patches as cg to vcg . No visible sulfides.
SOU-21-02	79.42	80.56	1.14	5B	Granodiorite	White/gray, mg to cg, Plag, Qtz, Bt. Strong K alteration along upper contact with pegmatite, as well as some moderate K alteration at lower contact with small (~0.05m) pegmatite dyke. No visible sulfides.
SOU-21-02	80.56	111.02	30.46	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals. Trace blebs of Py in lighter bands. After 98m, sections (~5-~20cm) of feldspar porphyry, as well as bands 3A with strong Chl alteration. Some trace Py associated with two felsic dykes as well at 93.28 and 97.36m. Quartz vein at 93.67m Trace interstitial Py.
SOU-21-02	111.02	112.08	1.06	5B	Granodiorite	Gray, fg to mg, Plag, Qtz, with Bt. No visible sulfides.
SOU-21-02	112.08	121.08	9	3A	Greywacke	Gray to dark gray, fg, Intermediate composition of Plag, biotite and quartz with minor mafic minerals.
SOU-21-02	121.08	123.98	2.9	5B	Granodiorite	Light gray to gray, mg to cg, Plag, Qtz Bt. Trace Py. Small cluster of cg euhedral Py found in one fracture.
SOU-21-02	123.98	140.58	16.6	3A	Greywacke	Gray to Dark gray, fg, Plag, Bt Qtz, with minor mafic minerals. Trace Py in this section except small dyke at 133.58 tp 133.66m with ~ .5% fg Py and trace Gn.
SOU-21-02	140.58	142.13	1.55	5B	Granodiorite	Light gray to gray, mg to cg, Plag, Qtz Bt. Py in a small fracture.
SOU-21-02	142.13	146.24	4.11	3A	Greywacke	Gray, fg, Plag, Bt, Qtz with minor mafic minerals. Trace Py associated with a small Patch of cg Qtz at 143.64m.
SOU-21-02	146.24	149.82	3.58	5B	Granodiorite	Light gray to gray, mg to cg, Plag, Qtz Bt. Small intrusions of pegmatite throughout section. Granodiorite appears bleached in this section do to intruding pegmatites. No visible sulfides.
SOU-21-02	149.82	230.72	80.9	5B	Granodiorite	Gray to dark gray, fg to mg, Plag, Bt, Qtz with slightly higher percentage of mafic minerals than in previous granodiorite units. A few small pegmatite dykes intrude unit. No visible sulfides.
SOU-21-02	230.72	232.7	1.98	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm
SOU-21-02	232.7	236.84	4.14	5B	Granodiorite	Pinkish grey, medium- to coarse-grained, massive biotite-bearing (5%) granodiorite that is cut by 2-10 cm-wide pegmatites, and has a 12 cm-wide greywacke unit incorporated within it. There is visible zonation within the feldspar in this unit.
SOU-21-02	236.84	239.82	2.98	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm. There are lesser 5-10 cm-wide granodiorite layers within this pegmatite unit.

SOU-21-02	239.82	241.12	1.3	5B	Granodiorite	Pinkish grey, medium- to coarse-grained, massive biotite-bearing (5%) granodiorite that is cut by a 5 cm-wide section of pegmatite, and a 30 cm-wide section of massive tonalite.
SOU-21-02	241.12	255.45	14.33	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm. There are 10 cm wide minor units of Greywacke and Granodiorite within this Pegmatite.
SOU-21-02	255.45	259.62	4.17	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. This unit is also cut by a 50 cm-wide section of granodiorite.
SOU-21-02	259.62	260.92	1.3	5B	Granodiorite	Light blue-grey, medium-grained, equigranular, massive, qz-fs-bt granodiorite.
SOU-21-02	260.92	261.91	0.99	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-15 cm-wide layers of greywacke. This unit has 2-5 cm-wide green bands of amph-di-pl with 2% blebby py-po.
SOU-21-02	261.91	263.12	1.21	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm. The lower 30 cm of this unit are intruding a foliated feldspar porphyry, which is in a foliation-parallel contact with the underlying mafic tuffs.
SOU-21-02	263.12	270.76	7.64	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. From 269.20-269.50 m, this unit is intruded (the foliation is being cut) by a granodiorite with a quartz vein without visible sulfide mineralization. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-2 cm-wide bands.
SOU-21-02	270.76	273.5	2.74	5B	Granodiorite	Light blue-grey, medium-grained, equigranular, massive, qz-fs-bt granodiorite. This unit has a 5 cm by 3 cm mafic tuff fragment @271.05 m. This unit is cutting the foliation of the mafic tuff at its intrusive contact.
SOU-21-02	273.5	278.05	4.55	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands.

SOU-21-02	278.05	279.58	1.53	4B	Feldspar Porphyry	Grey, fine- to medium-grained, porphyritic, foliated feldspar porphyry with minor 5-10 cm-wide interbeddings of mafic tuff and greywacke. This unit has a dark grey matrix, accompanied by light-grey phenocrysts of plagioclase. This unit has patchy biotite alteration, while the light-grey plagioclase and biotite define the foliation in this unit. This unit lacks significant sulfide mineralization.
SOU-21-02	279.58	281.07	1.49	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke cut by 2-5 cm-wide granodiorite dykes. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization.
SOU-21-02	281.07	284.38	3.31	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands.
SOU-21-02	284.38	286.4	2.02	4E	Pegmatite	Grey, very coarse-grained, massive, qz-fs-bt pegmatite. Grain sizes range from mm-scale, up to >3 cm. There are minor blebs of pyrite, and there is a large (20 cm-long) feldspar porphyry fragment within this unit.
SOU-21-02	286.4	288.86	2.46	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands. This unit is cut by a 70 cm-wide pegmatite dyke (287.68-288.35
SOU-21-02	288.86	291.4	2.54	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm. From 290.40-290.92 m, there is a minor lithology of granodiorite.
SOU-21-02	291.4	297.91	6.51	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di). Some of the bands are boudinaged. This unit has lesser 10-30 cm-wide layers of greywacke and feldspar porphyry. This unit is mostly devoid of sulfides, but can reach up to 2% fracture-controlled py-po in some 0.3-5 cm-wide bands. From 295-295.60, there is 2-3% fracture-controlled py-po in a laminated quartz vein (295.47-295.53 m), in green (di-ep) bands, and in 0.5 cm-wide stringers that are overprinting the foliation and are cutting the core axis at a low angle (30 degrees). From 294.25-294.94, there is a minor lithology of feldspar porphyry.

SOU-21-02	297.91	300.6	2.69	4B	Feldspar Porphyry	Grey, fine- to medium-grained, porphyritic, foliated feldspar porphyry with minor 5-10 cm-wide interbeddings of tonalite and greywacke. This unit has a dark grey matrix, accompanied by light-grey phenocrysts of plagioclase. This unit has patchy biotite alteration, and pervasive sericite alteration, while the light-grey plagioclase and biotite define the foliation in this unit. This unit lacks significant sulfide mineralization. From 298.30-298.40, there are three, 1 cm-wide quartz veins lacking significant sulfides.
SOU-21-02	300.6	302.82	2.22	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote alteration. This unit has up to 0.5% pyrite, and has 1-2 cm-wide quartz, and quartz-feldspar veins scattered throughout this unit.
SOU-21-02	302.82	305.42	2.6	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm.
SOU-21-02	305.42	307.84	2.42	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote alteration. This unit has 2% disseminated pyrite, and has 5-20 cm minor units of greywacke and feldspar porphyry within. The minor units of greywacke have fracture-controlled epidote alteration and 2% fracture-controlled pyrite, while the minor units of feldspar porphyry have up to 0.5% pyrite.
SOU-21-02	307.84	310.93	3.09	4E	Pegmatite	Pinkish grey, very coarse-grained qz-fs-bt pegmatite. There is rare graphic texture in this unit. Grain sizes range from mm-scale, up to >3 cm. This unit has sporadically emplaced blebs of pyrite.
SOU-21-02	310.93	315.08	4.15	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote alteration. This unit has 2% disseminated pyrite, and has 5-25 cm minor units of gabbro and feldspar porphyry within.
SOU-21-02	315.08	317.78	2.7	4B	Feldspar Porphyry	Grey, fine- to medium-grained, porphyritic, foliated feldspar porphyry with minor 5-30 cm-wide interbeddings of tonalite, pegmatite, and greywacke. This unit has a dark grey matrix, accompanied by light-grey phenocrysts of plagioclase. This unit has patchy biotite alteration, and pervasive sericite alteration, while the light-grey plagioclase and biotite define the foliation in this unit. This unit lacks significant sulfide mineralization. The first 95 cm of this unit is characterized by a minor lithology of pegmatite. There is also a 10 cm-wide pegmatite unit, 10 cm above this unit's lower contact with the tonalite.
SOU-21-02	317.78	335.38	17.6	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote alteration. This unit has 2% disseminated pyrite, and has 5-25 cm minor units of gabbro greywacke, and feldspar porphyry within.
SOU-21-02	335.38	337	1.62	5B	Granodiorite	Pinkish grey, medium-grained, equigranular, massive, qz-fs-bt granite/granodiorite with a minor lithology of pegmatite from 336.15-336.43 m.

		Hole Number:		SOU-21-03			
		Drill Rig:		Foraco #5511			
		Claim Number:		531117			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				10/21/2021		10/27/2021	
Planned Coordinates		Azimuth:	30	Drill Contractor:		Foraco Canada Ltd.	
Easting	654644						
Northing	5390448	Dip:	-50	Dates Logged:		Start Date:	End Date:
Elevation(m)	405					10/22/2021	
Final Pick up		Depth(m):	330.00	Logger 1:		ANDREW WEHRFRITZ	
Easting	654646.2					Derek Smyth	
Northing	5390442.898	Core Size:	NQ	Logger 3:			
Elevation(m)	419.27					Assay Lab:	
Casing							
Purpose of Hole	Following up on high grade surface samples (South Showing).	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
		30	30.3	-51.57	55785		37.9
		60	30.3	-51.05	55890		37.9
		90	30.72	-50.34	55808		38.32
		120	29.03	-49.82	55804		36.63
		150	30.85	-49.53	55750		38.45
		180	30.7	-49.18	55721		38.3
		210	30.94	-48.89	55895		38.54
		240	31.14	-48.54	55663		38.74
Results		270	31.35	-48.95	55674		38.95
		300	31.46	-48.03	55807		39.06
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
			-7.6				
Comments			-7.6				
			-7.6				
			-7.6				
			-7.6				
Azimuth corrected to 7.6 degrees west declination			-7.6				

BHID	FROM_M	TO_M	LENGTH_M	ROCK_CODE	ROCK	COMMENTS
SOU-21-03	0	9.23	9.23	OVB	Overburden	
SOU-21-03	9.23	11.15	1.92	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained smokey grey quartz. Minor mica.
SOU-21-03	11.15	18.05	6.9	5A	Granite	fg to mg, pink and grey felsic unit with a massive texture to porphyritic texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained smokey grey quartz. Minor mica. Faint millimetric sized white (feldspar) speckled throughout give a porphyritic texture in sections. Narrow sections of coarser pegmatite intersect intermittently; QV in the bottom portion of the unit associated with the pegmatite.
SOU-21-03	18.05	20.08	2.03	6B	Gabbro	fg to cg, grey to dark green unit with a massive to porphyritic texture. Unit is composed predominantly of fine to coarse grained mafic minerals with a significant portion of white to pale pink feldspar interstitially. Weak to no foliation. Increased chlorite alteration rim running along the upper contact of the unit.
SOU-21-03	20.08	40.84	20.76	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained Smokey grey quartz. Minor mica. Narrow sections of finer grained granite intersect the unit occasionally.
SOU-21-03	40.84	47.56	6.72	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Frequent narrow sections of feldspar porphyry. Smokey Quartz vein from 41.38 to 41.44. Narrow quartz stringer intermittently throughout. Narrow section of granite <30cm at 44.2m. Undulating foliation associated with bottom 10 cm of the unit (4E contact)
SOU-21-03	47.56	49.37	1.81	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained Smokey grey quartz. Minor mica.
SOU-21-03	49.37	51.4	2.03	5A	Granite	fg to mg, pink and grey felsic unit with a massive texture to porphyritic texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained smokey grey quartz. Minor mica. Faint millimetric sized white (feldspar) speckled throughout give a porphyritic texture in sections. 52 cm of ground core in the 48 to 51m run. Greywacke subunit contains undulating foliation/ open folding along lighter felsic layers/beds.

SOU-21-03	51.4	71.1	19.7	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Frequent narrow sections feldspar porphyry containing a low to moderate degree of strain. QV from 56.78 to 56.84m and 64.5 to 64.55; ; narrow quartz stringers observed occasionally.
SOU-21-03	71.1	72.45	1.35	5B	Granodiorite	fg to mg, white felsic unit with black speckling throughout. Unit has a massive texture and is composed predominantly of white feldspar and grey quartz with lesser black biotite.
SOU-21-03	72.45	82.68	10.23	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Frequent narrow sections of feldspar porphyry. Foliation in this unit gradually steepens from approximately 50 degree tca to 70 degrees tca; reflex surveys indicate a steady dip measurement for the hole. Regular narrow smokey quartz stringers observed throughout; some of which associated with trace sulphides.
SOU-21-03	82.68	86.94	4.26	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of pink k-spar, with lesser amounts of coarse grained Smokey grey quartz and biotite.
SOU-21-03	86.94	101.93	14.99	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Frequent narrow sections of feldspar porphyry, felsic/granitic intrusions. Narrow sections of mafics/mafic dyke at 96.7m. Frequent narrow quartz stringers throughout most of the unit; some of which are associated with trace sulphides.
SOU-21-03	101.93	103.2	1.27	4B	Feldspar Porphyry	Fg to mg, felsic unit, light grey and black, low to moderately foliated composed of predominately quartz, plagioclase and lesser biotite. Millimetric sized feldspar phenocrysts with a moderate degree of strain throughout produce a porphyritic texture. Sericite alteration along healed fractures in areas. Faint contacts. Narrow quartz stringers observed sporadically throughout.

SOU-21-03	103.2	116.15	12.95	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Frequent narrow sections of feldspar porphyry, felsic/granitic intrusions. Sharp lower contact with granodiorite.
SOU-21-03	116.15	129.56	13.41	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. aPhase/compositional changes wax and wane throughout. Minor intermittent pegmatitic veins also scattered throughout this unit.
SOU-21-03	129.56	131.79	2.23	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz and plagioclase with lesser amounts of pink K-feldspar and biotite. . Upper and lower contacts are diffuse with finer grained margins.
SOU-21-03	131.79	140.32	8.53	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. aPhase/compositional changes wax and wane throughout. Minor intermittent pegmatitic veins also scattered throughout this unit.
SOU-21-03	140.32	142.56	2.24	4E	Pegmatite	Mg to vcg, pink and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz and plagioclase with lesser amounts of pink K-feldspar and biotite. . Upper and lower contacts are diffuse with finer grained margins.
SOU-21-03	142.56	149.12	6.56	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Phase/compositional changes wax and wane throughout. Minor intermittent pegmatitic veins also scattered throughout this unit. Also a minor unit of altered sediments/greywacke from 147.32-148.13m (xenolith?).
SOU-21-03	149.12	150.35	1.23	4E	Pegmatite	Mg to vcg, white and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz and plagioclase with lesser amounts of pink K-feldspar and biotite. Sharp upper and lower contacts.
SOU-21-03	150.35	152.15	1.8	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Phase/compositional changes wax and wane throughout. Minor pegmatitic vein within this unit. Sharp lower contact with pegmatite.
SOU-21-03	152.15	155.18	3.03	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp upper and lower contacts.


SOU-21-03	155.18	156.23	1.05	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Felsic/granitic veinlets concordant with foliation are scattered throughout. Trace disseminated pyrite. Sharp lower contact with granodiorite.
SOU-21-03	156.23	157.58	1.35	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Phase/compositional changes wax and wane throughout. Minor pegmatitic vein within this unit.
SOU-21-03	157.58	160.66	3.08	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp upper and lower contacts.
SOU-21-03	160.66	175.88	15.22	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Felsic/granitic veins/veinlets predominately concordant with foliation are scattered throughout. Trace sulfides as pyrite associated with coarse grained quartz/pegmatitic veins. A minor unit of Feldspar porphyry occurs from 164.03-164.37m. A greenish black mafic dyke occurs from 175.20-175.88m that contains up to 5% fracture controlled pyrite. Lower contact is sharp with pegmatite unit.
SOU-21-03	175.88	177.74	1.86	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp upper and lower contacts.
SOU-21-03	177.74	179.22	1.48	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Quartz veinlets concordant with foliation are scattered throughout. Trace disseminated pyrite.
SOU-21-03	179.22	190.86	11.64	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Numerous intermittent minor bands of felsic dykes/feldspar poryphyry. Also scattered quartz veinlets throughout that often host disseminated sulfides of pyrite. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic. Lower contact is sharp with lower unit.

SOU-21-03	190.86	194.8	3.94	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Minor ;bands of coarser grained pegmatite occur within this unit. Scattered quartz veinlets host semi-massive pyrite.
SOU-21-03	194.8	195.8	1	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp upper and lower contacts.
SOU-21-03	195.8	207.66	11.86	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Minor unit of greywacke occurs from 205.86-206.14m. Texture of this unit becomes increasingly porphyritic from approximately 206.45m to lower contact with 1-3mm sized porphyroblasts of plagioclase. Sharp lower contact.
SOU-21-03	207.66	213.25	5.59	3A	Greywacke	Fg to mg, grey greywacke with a massive to bedded texture. Unit is composed predominately of a fine grained felsic and biotite ground mass. Millimetric wide light grey felsic bands are observed sporadically throughout the unit. Moderate degree of fracture-controlled sericite alteration throughout. Quartz veinlets concordant with foliation are scattered throughout. Minor bands of what appears to be veins of feldspar porphyry. Contacts of these intrusive veins are not well defined and so the porphyritic texture (1-5mm sized) may represent larger clasts and bedding within this sedimentary package? iDisseminated trace py and po. Sharp lower contact with pegmatite. .
SOU-21-03	213.25	214.4	1.15	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Discontinuous throughout showing sections of granodiorite host unit. Sharp upper and lower contacts.
SOU-21-03	214.4	218.74	4.34	5B	Granodiorite	Mg to vcg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Sharp lower contact with a minor unit of mafic tuff.
SOU-21-03	218.74	223.8	5.06	5A	Granite	mg to cg, pink and grey felsic unit with a massive texture to porphyritic texture. Unit is composed predominately of pink k-spar, quartz/smokey quartz, amphibole, and minor mica. Intermittent sections of coarse grained to very coarse grained pegmatites scattered throughout this unit. Sharp upper and lower contacts.

SOU-21-03	223.8	238.82	15.02	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Numerous intermittent minor bands of felsic dykes/feldspar porphyry. Also scattered quartz veinlets throughout. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic. Disseminated trace pyrite and pyrrhotite. Lower contact is sharp with lower unit.
SOU-21-03	238.82	241.55	2.73	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Gradational lower contact.
SOU-21-03	241.55	247.73	6.18	5A	Granite	mg to cg, pink and grey/white felsic unit with a massive texture to porphyritic texture. Unit is composed predominately of pink k-spar, quartz/smokey quartz, amphibole, and minor mica. Minor unit of pegmatite occurs within this granite. Gradational upper and lower contacts.
SOU-21-03	247.73	253.11	5.38	5B	Granodiorite	Mg to cg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Subangular greywacke xenoliths (2cm wide) occur in this unit at 248.45m and 251.50m. Gradational lower contact with granite.
SOU-21-03	253.11	255.51	2.4	5A	Granite	mg to cg, pink and grey/white felsic unit with a massive texture to porphyritic texture. Unit is composed predominately of pink k-spar, quartz/smokey quartz, amphibole, and minor mica. Sharp lower contact with pegmatite.
SOU-21-03	255.51	257.72	2.21	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp lower contact with mafic tuff. Minor unit of granite occurs from 257m to lower contact.
SOU-21-03	257.72	259.4	1.68	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Scattered quartz veinlets throughout. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic. Disseminated trace pyrite and pyrrhotite. Lower contact is sharp with granodiorite.
SOU-21-03	259.4	261.1	1.7	5B	Granodiorite	Mg to cg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Sharp upper and lower contact with mafic tuffs.

SOU-21-03	261.1	267.16	6.06	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Scattered quartz veinlets throughout. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic. Minor units of pegmatite occur throughout this unit. Mafic Tuff becomes increasingly massive with a loss in discrete laminations towards lower contact. Disseminated trace pyrite and pyrrhotite. Lower contact is sharp with granodiorite.
SOU-21-03	267.16	269.97	2.81	5B	Granodiorite	Mg to cg, white to grey to bluish grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and and speckled with biotite and amphibole. Minor unit of pegmatite within this unit. Sharp upper and lower contact with mafic tuffs.
SOU-21-03	269.97	272.09	2.12	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Scattered quartz veinlets throughout. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic. Minor units of feldspar porphyry occur within. Disseminated trace pyrite and pyrrhotite. Lower contact is sharp with granodiorite.
SOU-21-03	272.09	274.03	1.94	4E	Pegmatite	Cg to vcg, pink, white, and grey felsic unit with a massive texture. Unit is composed predominately of quartz/smokey quartz, plagioclase, and pink K-feldspar and biotite. Sharp lower contact.
SOU-21-03	274.03	330	55.97	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote alteration. This unit has 1-2% disseminated pyrite, and has 5-25 cm minor units of pegmatite, greywacke, and feldspar porphyry within. Minor finer grained grey sections appear to be intervals of greywacke. Quartz veinlets scattered throughout but mostly concentrated near the top of the unit down to approximately 286m. From 329.37-329.39 m, there is a qz vein with 1% diss py.

BIBL	AREA	LAE	DTA NUMBER	SAMPLE TYPE	DEPTH (M)	LENGTH (M)	SAMPLE NUMBER	AUX1	AUX2	AUX3	AUX4	AUX5	AUX6	AUX7	AUX8	AUX9	AUX10	AUX11	AUX12	AUX13	AUX14	AUX15	AUX16	AUX17	AUX18	AUX19	AUX20	AUX21	AUX22	AUX23	AUX24	AUX25	AUX26	AUX27	AUX28	AUX29	AUX30	AUX31	AUX32	AUX33	AUX34	AUX35	AUX36	AUX37	AUX38	AUX39	AUX40	AUX41	AUX42	AUX43	AUX44	AUX45	AUX46	AUX47	AUX48	AUX49	AUX50	AUX51	AUX52	AUX53	AUX54	AUX55	AUX56	AUX57	AUX58	AUX59	AUX60	AUX61	AUX62	AUX63	AUX64	AUX65	AUX66	AUX67	AUX68	AUX69	AUX70	AUX71	AUX72	AUX73	AUX74	AUX75	AUX76	AUX77	AUX78	AUX79	AUX80	AUX81	AUX82	AUX83	AUX84	AUX85	AUX86	AUX87	AUX88	AUX89	AUX90	AUX91	AUX92	AUX93	AUX94	AUX95	AUX96	AUX97	AUX98	AUX99	AUX100	AUX101	AUX102	AUX103	AUX104	AUX105	AUX106	AUX107	AUX108	AUX109	AUX110	AUX111	AUX112	AUX113	AUX114	AUX115	AUX116	AUX117	AUX118	AUX119	AUX120	AUX121	AUX122	AUX123	AUX124	AUX125	AUX126	AUX127	AUX128	AUX129	AUX130	AUX131	AUX132	AUX133	AUX134	AUX135	AUX136	AUX137	AUX138	AUX139	AUX140	AUX141	AUX142	AUX143	AUX144	AUX145	AUX146	AUX147	AUX148	AUX149	AUX150	AUX151	AUX152	AUX153	AUX154	AUX155	AUX156	AUX157	AUX158	AUX159	AUX160	AUX161	AUX162	AUX163	AUX164	AUX165	AUX166	AUX167	AUX168	AUX169	AUX170	AUX171	AUX172	AUX173	AUX174	AUX175	AUX176	AUX177	AUX178	AUX179	AUX180	AUX181	AUX182	AUX183	AUX184	AUX185	AUX186	AUX187	AUX188	AUX189	AUX190	AUX191	AUX192	AUX193	AUX194	AUX195	AUX196	AUX197	AUX198	AUX199	AUX200	AUX201	AUX202	AUX203	AUX204	AUX205	AUX206	AUX207	AUX208	AUX209	AUX210	AUX211	AUX212	AUX213	AUX214	AUX215	AUX216	AUX217	AUX218	AUX219	AUX220	AUX221	AUX222	AUX223	AUX224	AUX225	AUX226	AUX227	AUX228	AUX229	AUX230	AUX231	AUX232	AUX233	AUX234	AUX235	AUX236	AUX237	AUX238	AUX239	AUX240	AUX241	AUX242	AUX243	AUX244	AUX245	AUX246	AUX247	AUX248	AUX249	AUX250	AUX251	AUX252	AUX253	AUX254	AUX255	AUX256	AUX257	AUX258	AUX259	AUX260	AUX261	AUX262	AUX263	AUX264	AUX265	AUX266	AUX267	AUX268	AUX269	AUX270	AUX271	AUX272	AUX273	AUX274	AUX275	AUX276	AUX277	AUX278	AUX279	AUX280	AUX281	AUX282	AUX283	AUX284	AUX285	AUX286	AUX287	AUX288	AUX289	AUX290	AUX291	AUX292	AUX293	AUX294	AUX295	AUX296	AUX297	AUX298	AUX299	AUX300	AUX301	AUX302	AUX303	AUX304	AUX305	AUX306	AUX307	AUX308	AUX309	AUX310	AUX311	AUX312	AUX313	AUX314	AUX315	AUX316	AUX317	AUX318	AUX319	AUX320	AUX321	AUX322	AUX323	AUX324	AUX325	AUX326	AUX327	AUX328	AUX329	AUX330	AUX331	AUX332	AUX333	AUX334	AUX335	AUX336	AUX337	AUX338	AUX339	AUX340	AUX341	AUX342	AUX343	AUX344	AUX345	AUX346	AUX347	AUX348	AUX349	AUX350	AUX351	AUX352	AUX353	AUX354	AUX355	AUX356	AUX357	AUX358	AUX359	AUX360	AUX361	AUX362	AUX363	AUX364	AUX365	AUX366	AUX367	AUX368	AUX369	AUX370	AUX371	AUX372	AUX373	AUX374	AUX375	AUX376	AUX377	AUX378	AUX379	AUX380	AUX381	AUX382	AUX383	AUX384	AUX385	AUX386	AUX387	AUX388	AUX389	AUX390	AUX391	AUX392	AUX393	AUX394	AUX395	AUX396	AUX397	AUX398	AUX399	AUX400	AUX401	AUX402	AUX403	AUX404	AUX405	AUX406	AUX407	AUX408	AUX409	AUX410	AUX411	AUX412	AUX413	AUX414	AUX415	AUX416	AUX417	AUX418	AUX419	AUX420	AUX421	AUX422	AUX423	AUX424	AUX425	AUX426	AUX427	AUX428	AUX429	AUX430	AUX431	AUX432	AUX433	AUX434	AUX435	AUX436	AUX437	AUX438	AUX439	AUX440	AUX441	AUX442	AUX443	AUX444	AUX445	AUX446	AUX447	AUX448	AUX449	AUX450	AUX451	AUX452	AUX453	AUX454	AUX455	AUX456	AUX457	AUX458	AUX459	AUX460	AUX461	AUX462	AUX463	AUX464	AUX465	AUX466	AUX467	AUX468	AUX469	AUX470	AUX471	AUX472	AUX473	AUX474	AUX475	AUX476	AUX477	AUX478	AUX479	AUX480	AUX481	AUX482	AUX483	AUX484	AUX485	AUX486	AUX487	AUX488	AUX489	AUX490	AUX491	AUX492	AUX493	AUX494	AUX495	AUX496	AUX497	AUX498	AUX499	AUX500	AUX501	AUX502	AUX503	AUX504	AUX505	AUX506	AUX507	AUX508	AUX509	AUX510	AUX511	AUX512	AUX513	AUX514	AUX515	AUX516	AUX517	AUX518	AUX519	AUX520	AUX521	AUX522	AUX523	AUX524	AUX525	AUX526	AUX527	AUX528	AUX529	AUX530	AUX531	AUX532	AUX533	AUX534	AUX535	AUX536	AUX537	AUX538	AUX539	AUX540	AUX541	AUX542	AUX543	AUX544	AUX545	AUX546	AUX547	AUX548	AUX549	AUX550	AUX551	AUX552	AUX553	AUX554	AUX555	AUX556	AUX557	AUX558	AUX559	AUX560	AUX561	AUX562	AUX563	AUX564	AUX565	AUX566	AUX567	AUX568	AUX569	AUX570	AUX571	AUX572	AUX573	AUX574	AUX575	AUX576	AUX577	AUX578	AUX579	AUX580	AUX581	AUX582	AUX583	AUX584	AUX585	AUX586	AUX587	AUX588	AUX589	AUX590	AUX591	AUX592	AUX593	AUX594	AUX595	AUX596	AUX597	AUX598	AUX599	AUX600	AUX601	AUX602	AUX603	AUX604	AUX605	AUX606	AUX607	AUX608	AUX609	AUX610	AUX611	AUX612	AUX613	AUX614	AUX615	AUX616	AUX617	AUX618	AUX619	AUX620	AUX621	AUX622	AUX623	AUX624	AUX625	AUX626	AUX627	AUX628	AUX629	AUX630	AUX631	AUX632	AUX633	AUX634	AUX635	AUX636	AUX637	AUX638	AUX639	AUX640	AUX641	AUX642	AUX643	AUX644	AUX645	AUX646	AUX647	AUX648	AUX649	AUX650	AUX651	AUX652	AUX653	AUX654	AUX655	AUX656	AUX657	AUX658	AUX659	AUX660	AUX661	AUX662	AUX663	AUX664	AUX665	AUX666	AUX667	AUX668	AUX669	AUX670	AUX671	AUX672	AUX673	AUX674	AUX675	AUX676	AUX677	AUX678	AUX679	AUX680	AUX681	AUX682	AUX683	AUX684	AUX685	AUX686	AUX687	AUX688	AUX689	AUX690	AUX691	AUX692	AUX693	AUX694	AUX695	AUX696	AUX697	AUX698	AUX699	AUX700	AUX701	AUX702	AUX703	AUX704	AUX705	AUX706	AUX707	AUX708	AUX709	AUX710	AUX711	AUX712	AUX713	AUX714	AUX715	AUX716	AUX717	AUX718	AUX719	AUX720	AUX721	AUX722	AUX723	AUX724	AUX725	AUX726	AUX727	AUX728	AUX729	AUX730	AUX731	AUX732	AUX733	AUX734	AUX735	AUX736	AUX737	AUX738	AUX739	AUX740	AUX741	AUX742	AUX743	AUX744	AUX745	AUX746	AUX747	AUX748	AUX749	AUX750	AUX751	AUX752	AUX753	AUX754	AUX755	AUX756	AUX757	AUX758	AUX759	AUX760	AUX761	AUX762	AUX763	AUX764	AUX765	AUX766	AUX767	AUX768	AUX769	AUX770	AUX771	AUX772	AUX773	AUX774	AUX775	AUX776	AUX777	AUX778	AUX779	AUX780	AUX781	AUX782	AUX783	AUX784	AUX785	AUX786	AUX787	AUX788	AUX789	AUX790	AUX791	AUX792	AUX793	AUX794	AUX795	AUX796	AUX797	AUX798	AUX799	AUX800	AUX801	AUX802	AUX803	AUX804	AUX805	AUX806	AUX807	AUX808	AUX809	AUX810	AUX811	AUX812	AUX813	AUX814	AUX815	AUX816	AUX817	AUX818	AUX819	AUX820	AUX821	AUX822	AUX823	AUX824	AUX825	AUX826	AUX827	AUX828	AUX829	AUX830	AUX831	AUX832	AUX833	AUX834	AUX835	AUX836	AUX837	AUX838	AUX839	AUX840	AUX841	AUX842	AUX843	AUX844	AUX845	AUX846	AUX847	AUX848	AUX849	AUX850	AUX851	AUX852	AUX853	AUX854	AUX855	AUX856	AUX857	AUX858	AUX859	AUX860	AUX861	AUX862	AUX863	AUX864	AUX865	AUX866	AUX867	AUX868	AUX869	AUX870	AUX871	AUX872	AUX873	AUX874	AUX875	AUX876	AUX877	AUX878	AUX879	AUX880	AUX881	AUX882	AUX883
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		Hole Number:		SOU-21-04					
		Drill Rig:		Foraco #5511					
		Claim Number:		531117					
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:		
Surface				11/04/2021		11/08/2021			
Planned Coordinates		Azimuth: 30 Dip: -50		Drill Contractor:		Foraco Canada Ltd.			
Easting	654908			Dates Logged:		Start Date:	End Date:		
Northing	5390304			11/05/2021		11/09/2021			
Elevation(m)		405		Logger 1:		Luc Roy			
Final Pick up		Depth(m):		330.00		Logger 2:			
Easting	654907.543	Core Size:		NQ		Antony Mohan			
Northing	5390306.887	Assay Lab:		Actlabs					
Elevation(m)	406.50	Casing							
Purpose of Hole		Following up on high grade surface samples (South Showing).		Dip Tests					
				Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results				30	28.71	-51.43	55995		36.31
				60	28.9	-50.98	56191		36.5
				90	29.1	-50.4	55947		36.7
				120	30.65	-49.98	56013		38.25
				150	29.68	-49.22	55949		37.28
				180	29.26	-48.68	55958		36.86
				210	30.8	-48.73	55989		38.4
				240	29.14	-48.77	56020		36.74
				270	29.26	-48.42	56035		36.86
				Comments				300	29.31
330	31.09	-47.4	55856						38.69
	-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
SOU-21-04	0	9.79	9.79	OVB	Overburden	
SOU-21-04	9.79	58.19	48.4	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks any visible sulfide mineralization. This unit has few, up to 1 cm-wide qz (?) veinlets that appear to be boudinaged. This unit has sections with moderate fracture-controlled biotite alteration. This unit is cut by minor lithologies of pegmatite, feldspar porphyry, and granodiorite. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white or green. The white beds/sections are composed of white feldspar, and speckled with dark-green to black-colored amphibole; while the green beds/sections are composed of pl-di-amph-qz-bt with up to 0.5% fracture-controlled pyrite.
SOU-21-04	58.19	64.7	6.51	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite. This unit appears to be strongly altering the underlying greywacke (bt-amph).
SOU-21-04	64.7	72.33	7.63	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite alteration. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white or green. The white beds/sections are composed of white feldspar, and speckled with dark-green to black-colored amphibole; while the green beds/sections are composed of pl-di-amph-qz-bt with up to 0.5% fracture-controlled pyrite. From 64.70-65.45 m, this unit is extremely bt-amph rich; which could be a product of alteration or is a mafic minor lithology.
SOU-21-04	72.33	74.35	2.02	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, feldspar, and speckled with biotite and amphibole. This unit has weak fracture-controlled epidote alteration.
SOU-21-04	74.35	75.76	1.41	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite.
SOU-21-04	75.76	76.92	1.16	4B	Feldspar Porphyry	Light grey, fine- to medium-grained, foliated, porphyritic feldspar porphyry. This unit is characterized by millimetric feldspar phenocrysts that are moderately strained, within a finer-grained, qz-fs matrix, producing a porphyritic texture. The foliation is defined by the feldspar phenocrysts, as well as elongate biotite. This unit is cut by a qz veinlet from 76.32-76.33 m with trace fracture-controlled pyrite.
SOU-21-04	76.92	83.26	6.34	5A	Granite	Pinkish-grey, medium-grained, massive, equigranular, qz-fs-mica granite. This unit has sections that develop very coarse grains, thus it is locally pegmatitic.
SOU-21-04	83.26	92.52	9.26	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite. This unit is medium-grained at/near its basal contact with the greywacke.


SOU-21-04	92.52	146.83	54.31	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite alteration. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white or green. The white beds/sections are composed of white feldspar, and speckled with dark-green to black-colored amphibole; while the green beds/sections are composed of pl-di-amph-qz-bt with up to 0.5% fracture-controlled pyrite. This unit is cut by minor lithologies of granite, pegmatite and interlayers of 5cm to 50cm of feldspar porphyry's. Some fractures also exhibit minor calcite/carbonates associated to it. There are several qz/smoky qz-fs veins (2 to 10mm thick) usually parallel to the remnant bedding/foliation which do not show any visible sulphides.
SOU-21-04	146.83	152.64	5.81	4E	Pegmatite	Pinkish-grey, medium to coarse-grained, massive, qz-fs-bt pegmatite. Some sections are granitic and at times equigranular. There are minor intervals of light bluish grey granodiorite within this unit.
SOU-21-04	152.64	179.75	27.11	5B	Granodiorite	Light grey to bluish grey-pinkish beige, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. There are minor intervals of pegmatite within this unit and appears to have irregular contacts with the granodiorite. Throughout this unit, there are several healed fractures with an irregular pattern. From 170.43 to 170.55m the section is fracture-healed with a light pinkish beige-pale green color. No visible sulphide mineralization.
SOU-21-04	179.75	181.11	1.36	4E	Pegmatite	Pinkish-grey, medium to coarse-grained, massive, qz-fs-bt pegmatite. Some sections are granitic and at times equigranular.
SOU-21-04	181.11	184.02	2.91	5B	Granodiorite	Light grey to bluish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. There is a minor interval of pegmatite within this unit and appears to have sharp contact with the granodiorite.

SOU-21-04	184.02	214.82	30.8	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite alteration. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white or green. The white beds/sections are composed of white feldspar, and speckled with dark-green to black-colored amphibole; while the green beds/sections are composed of pl-di-amph-qz-bt. This unit is cut by minor lithologies of pegmatite and interlayers of 5cm to 25cm of feldspar porphyry's. Section from 184 to 186m has minor 15 to 25cm intervals of healed fractures usually cross-cutting foliation and has a light pale green alteration (chl/epidote?) associated to it. There are several 1mm to 1cm qz-smoky qz/fs veinlets/wisps within this interval at times parallel to bedding.
SOU-21-04	214.82	221.38	6.56	5B	Granodiorite	Light grey to bluish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. There are minor intervals of pegmatite within this unit and appears to have and irregular and sharp contacts with the granodiorite.
SOU-21-04	221.38	232.62	11.24	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite alteration?. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white to light grey. The white beds/sections are composed of white feldspar, qz, and light grey to dark grey layers compose of smoky qz, amph? and bt/other micaceous minerals ; There are certain sections within the interval (5 to 10cm) that are composed of pl-di-amph-qz-bt. This greywacke unit is cut by minor lithologies of pegmatite and interlayers of 5cm to 25cm of feldspar porphyry's. There are numerous 2mm to 5mm cherty-siliceous bands/qz veinlets? (50 degree to TCA) with no visible sulphides associated to it. Wisps or boudins of qz-smoky-qz/fs are observed within unit sporadically.
SOU-21-04	232.62	240.16	7.54	5B	Granodiorite	Light pinkish grey to bluish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. There are minor intervals of pegmatite within this unit and appears to have irregular and sharp contacts with the granodiorite.
SOU-21-04	240.16	241.8	1.64	4E	Pegmatite	Pinkish-grey, medium to coarse-grained, massive, qz-fs-bt pegmatite. Some sections have minor intervals of light bluish-grey granodiorite.

SOU-21-04	241.8	244.74	2.94	5B	Granodiorite	Light pinkish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. This unit appears to have irregular upper and sharp lower contact with the pegmatite and greywacke units respectively.
SOU-21-04	244.74	269.95	25.21	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite and sericite alteration. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-15 cm-wide, sporadically emplaced beds/sections that can be white to light grey. The white beds/sections are composed of white feldspar, qz, and light grey to dark grey layers composed of smoky qz, amph? and bt/other micaceous minerals ; There are certain sections within the interval (5 to 10cm) that are composed of pl-di-amph-qz-bt. This greywacke unit is cut by minor lithologies of pegmatite and interlayers of 5cm to 25cm of feldspar porphyry's. There are numerous 2mm to 5mm cherty-siliceous bands/qz veinlets? with no major visible sulphides associated to it. Wisps or boudins of qz-smoky-qz/fs are also observed within unit sporadically.
SOU-21-04	269.95	271.63	1.68	4E	Pegmatite	Pinkish-grey-beige, coarse-very coarse grained, massive, qz-fs-bt pegmatite. This unit has sharp upper and lower contacts with the greywacke.
SOU-21-04	271.63	281.08	9.45	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite and sericite alteration. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-10 cm-wide, sporadically emplaced beds/sections that can be white to light grey. The white beds/sections are composed of white feldspar, qz, and light grey to dark grey/black layers composed of smoky qz, amph? and bt/other micaceous minerals ; There are certain sections within the interval of up to 5cm that are composed of di-amph-qz-fs?. This greywacke unit is cut by minor lithologies of pegmatite and interlayers of up to 5cm-2 5cm of feldspar porphyry's. There are numerous 2mm to 5mm cherty-siliceous bands/qz veinlets? with no visible sulphides. Wisps or boudins of qz-smoky-qz/fs are also observed within unit sporadically.
SOU-21-04	281.08	282.75	1.67	5B	Granodiorite	Light bluish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals. This unit appears to have irregular upper and lower contact with the greywacke unit. From 282.19 to 282.60 this unit is more light pinkish white in color .

SOU-21-04	282.75	288.58	5.83	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar, quartz, and biotite. This unit lacks significant sulfide mineralization. This unit has sections with moderate fracture-controlled biotite and sericite alteration. Prominent dark grey-black bands are mostly defined by bt throughout the interval. This unit has 1-10 cm-wide, sporadically emplaced beds/sections that can be white to light grey. The white beds/sections are composed of white feldspar, qz, and light grey to dark grey/black layers composed of smoky qz, amph? and bt/other micaceous minerals. This greywacke unit is cut by minor lithologies of pegmatite, interlayers of pillowed mafic/massive mafic flows? and of up to 5cm sections of feldspar porphyry's. There are numerous 2mm to 5mm cherty-siliceous bands/qz veinlets? with no visible sulphides. Wisps or boudins of qz-smoky-qz/fs are also observed within unit sporadically.
SOU-21-04	288.58	291	2.42	4E	Pegmatite	Pinkish-grey-beige-red, medium-coarse grained, massive, qz-fs-bt pegmatite. This unit has sharp upper and lower contacts with the greywacke and granodiorite respectively.
SOU-21-04	291	292.34	1.34	5B	Granodiorite	Light bluish grey, medium grained, equigranular, massive granodiorite mostly composed of qz, fs, bt, hornblende(?) and other accessory minerals.
SOU-21-04	292.34	302.65	10.31	4E	Pegmatite	Pinkish-grey-beige-red, medium-very coarse grained, massive, qz-fs-bt pegmatite. This unit has irregular upper and sharp lower contacts with the granodiorite.
SOU-21-04	302.65	306.1	3.45	5B	Granodiorite	Pinkish-grey-beige-red, medium-coarse grained, massive, qz-fs-bt pegmatite. This unit has sharp upper and lower contacts with the greywacke and granodiorite respectively. This unit has minor intervals of pegmatite within.
SOU-21-04	306.1	307.9	1.8	4E	Pegmatite	Pinkish-grey-red, medium-very coarse grained, massive, qz-fs-bt pegmatite. This unit has irregular upper and lower contacts with granodiorite and pillowed mafic units respectively.
SOU-21-04	307.9	317.54	9.64	1B	Pillowed Flows	Dark green-grey, fine-med grained, foliated, pillowed mafic unit, where the pillows are flattened and are dark grey and primarily composed of plagioclase and amphibole, and the pillow selvages are green and composed of plagioclase, epidote/diopside +/- amphibole. This unit shows alternating bands of Di alt(?) (usually assuming the same trend of foliation). There are minor interlayers of feldspar porphyry's and greywacke within this interval. From 309.32 to 309.80m, there are some healed micro fractures cross-cutting the remnant foliation with possible calcite+/-chl associated to it. Section 310.66 to 311.20 is affected by some micro-fracturing and related extensional tension with some movement along the healed fracture. Rare sulphides of up to 0.5% is observed related to the banded di at patches within this pillowed unit.

SOU-21-04	317.54	320.76	3.22	4B	Feldspar Porphyry	Light grey, fine- to medium-grained, foliated, porphyritic feldspar porphyry. This unit is characterized by millimetric feldspar phenocrysts that are moderately strained, within a finer-grained, qz-fs matrix, producing a porphyritic texture. The foliation is defined by the feldspar phenocrysts, as well as elongate biotite. Up to 0.1 to 0.5% of disseminated sulphides and very minor sulphide blebs can be observed throughout the unit. The unit is interspersed with thin 2mm to 5mm qz/qz-fs bands/beds alternating with darker grey-black bands (bt mostly?).
SOU-21-04	320.76	330	9.24	5E	Tonalite	Grey, medium-grained, foliated qz-fs-bt tonalite with patchy epidote- pink fs alteration. This unit has 1-2% disseminated pyrite, and has 5-25 cm minor units of feldspar porphyry within. Minor finer grained grey-dark green sections appear to be intervals of greywacke or altered mafics?. Quartz veinlets are observed throughout the unit ranging from 2mm to 1cm in thickness. There are a few 5cm sections of light grey-white-beige-pale green alteration bands/patches (qz-k fs-ep-amph?+/-bt). EOH @ 330m

		Hole Number:		SOU-21-05			
		Drill Rig:		Foraco #5511			
		Claim Number:		531117			
Location		Drill Hole Orientation		Dates Drilled:		Start Date:	End Date:
Surface				10/28/2021		11/04/2021	
Planned Coordinates		Azimuth:	30	Drill Contractor:		Foraco Canada Ltd.	
Easting	654463						
Northing	5390537	Dip:	-50	Dates Logged:		Start Date:	End Date:
Elevation(m)	405					10/29/2021	
Final Pick up		Depth(m):	300.50	Logger 1:		Luc Roy	
Easting	654466.42			Logger 2:		Antony Mohan	
Northing	5390570.643	Core Size:	NQ	Logger 3:			
Elevation(m)	421.90			Assay Lab:		Actlabs	
Casing							
Purpose of Hole	Following up on the Southern surface showing, along strike to the WNW.	Dip Tests					
		Depth (m)	Az.	Dip	Mag	Notes	Az Uncor.
Results		30	30.06	-50.07	55913		37.66
		60	31.53	-49.67	55823		39.13
		90	32.35	-49.5	56028		39.95
		120	29.91	-48.93	56096		37.51
		150	30.07	-48.29	56003		37.67
		180	31.68	-47.85	55969		39.28
		210	32.13	-47.61	55910		39.73
		240	31.31	-47.36	55814		38.91
Comments		270	32.36	-47.21	55877		39.96
		300	33.2	-47.25	55531		40.8
			-7.6				
			-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
SOU-21-05	0	1.3	1.3	OVB	Overburden	
SOU-21-05	1.3	2.9	1.6	4E	Pegmatite	Pinkish grey, medium- to very coarse-grained, massive, qz-fs-mica pegmatite/granite. There is a 3 cm-wide, late qz melt/vein at the lower contact of this unit with the greywacke.
SOU-21-05	2.9	4.32	1.42	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization.
SOU-21-05	4.32	6.58	2.26	4E	Pegmatite	Pinkish grey, coarse- to very coarse-grained, massive, qz-fs-mica pegmatite.
SOU-21-05	6.58	24.01	17.43	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization. This unit has weak and sporadic green fracture-controlled to pervasive diopside (?) alteration. This unit is cut by minor units of granodiorite and feldspar porphyry, where the upper contact of greywacke with granodiorite minor units develop qz veins. This unit develops a schistose texture (bt-rich) in areas. From 12.57-12.60 m, there is a bleb of qz with 0.5% py/po. From 13-14 m, there are numerous, 1-3 cm-wide, fol-parallel qz veinlets without sulfides. This unit has sporadically emplaced, 0.5-2 cm-wide quartz veins without sulfides.
SOU-21-05	24.01	26.32	2.31	4E	Pegmatite	Light grey, medium- to very coarse-grained, massive, qz-fs-mica pegmatite/granodiorite.
SOU-21-05	26.32	31.46	5.14	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit has trace, very fine-grained fracture-controlled py. This unit has weak to moderate, sporadic green fracture-controlled to pervasive diopside (?) alteration. This unit is cut by <10 cm-wide pegmatites. This unit has zones that are more mica-rich that have developed a schistose texture. This unit has sporadically emplaced, 0.5-2 cm-wide quartz veins without sulfides.
SOU-21-05	31.46	34.23	2.77	4E	Pegmatite	Pinkish grey, medium- to very coarse-grained, massive, qz-fs-mica pegmatite/granite.
SOU-21-05	34.23	48.7	14.47	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization. This unit has weak and sporadic green fracture-controlled to pervasive diopside (?) alteration. This unit is cut by minor units of granodiorite, pegmatite, and feldspar porphyry. This unit develops a schistose texture (bt-rich) in areas. This unit has sporadically emplaced, 0.5-2 cm-wide quartz veins without sulfides.
SOU-21-05	48.7	61.46	12.76	5B	Granodiorite	Light blue-grey, medium-grained, massive, equi-granular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, plagioclase and speckled with biotite and amphibole. This unit is intersected with a minor unit of 4E.

SOU-21-05	61.46	68.58	7.12	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization. This unit has weak and sporadic green fracture-healed by light green mineralization (possible secondary Chl?) usually crosscutting the remnant bedding/foliation trend. There are several 2 to 20 cm sections of 4B within this unit. Minor sulphides are present as very thin stringers/wisps usually parallel to the remnant bedding/foliation. A thin 8 cm section of pegmatite is also observed within the unit assuming to cut parallel to the 3A unit foliation. This unit has several 2mm to 5mm qz, qz/fs veinlets trending at around 60-70 degree with TCA & at times seeming to be pygmatically folded. No major sulphides observed within this veins.
SOU-21-05	68.58	72.3	3.72	4B	Feldspar Porphyry	Fine to med grained, felsic unit, light to dark grey, composed of predominately quartz, plagioclase and less amounts of biotite. Millimetric sized feldspar phenocrysts with a moderate degree of strain throughout produce a porphyritic texture. Sericite alt (?) along healed fractures within the unit. A minor 20cm section of 4E is observed from 71.43m. Trace to insignificant sulphides are observed along fractures.
SOU-21-05	72.3	77.21	4.91	5B	Granodiorite	Light blue-grey, medium-grained, massive, equi-granular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, plagioclase and speckled with biotite and amphibole. There are 2 minor sections of 4B from 75 to 75.40m and from 76.90 to 77.21m and appears to have an irregular contact with the 5B unit. This unit grades more into a section that is pegmatitic especially from 76.41 to 76.9m.
SOU-21-05	77.21	80.14	2.93	4E	Pegmatite	Pinkish grey to red, medium to coarse grained, massive, qz-fs-bt pegmatite/granite. There are interlayers of units of 3A and 5B towards the basal contact. Minor sulphides are observed mineralized within the pegmatite and none observed along 3A units within.
SOU-21-05	80.14	81.3	1.16	3A	Greywacke	Grey, fine-grained, foliated, bedded greywacke. This unit is primarily composed of feldspar and biotite. This unit lacks any visible sulfide mineralization. There are several minor 5 to 10cm sections of 4B within this unit. Minor fractures with subsequent healing has been observed within the 4B interlayers with a light pale green alt associated to it. Sharp upper and lower contacts with pegmatites above and below.

SOU-21-05	81.3	93.18	11.88	4E	Pegmatite	Pinkish grey to greyish red, medium to coarse grained, massive, qz-fs-bt pegmatite/granite (?). There are interlayers of units of 5B within the unit. Minor sulphides are observed mineralized within the pegmatite and often associated to qz veining or fragments/wisps within the pegmatite unit. Minor fractures and subsequent healing is also observed within this unit, but with insignificant healing induced alteration. From 82.70 to 83.20m, there is a section of qz vein/recrystallized from melt within the pegmatite. This section though is devoid of sulphides and has minor fracture healings and include some laminations of possible 3A. Another similar section of qz vein/recrystallized from melt within the pegmatite is observed from 83.48 to 83.68m which are also devoid of significant sulphides.
SOU-21-05	93.18	94.37	1.19	5B	Granodiorite	Light blue-grey, medium-grained, massive, equi-granular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, plagioclase and speckled with biotite and amphibole. Sharp upper and lower contacts with the pegmatite.
SOU-21-05	94.37	106.7	12.33	4E	Pegmatite	Pinkish grey to red, medium to coarse grained, massive, qz-fs-bt pegmatite/granite. There are interlayers of units of 3A, 5B and 4B from 104.87 to 105.56m respectively and appears to have sharp contacts with the enclosing pegmatite. The pegmatite is fractured (nearly parallel to TCA) from 102 to 103.5m and healed with a dark grey to black mineral (?). Minor sulphides are observed mineralized within the pegmatite and none observed along 3A and 4B units within.
SOU-21-05	106.7	124.45	17.75	1H	Mafic Tuff	Dark green to greenish-grey, fine-occasionally med grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Numerous intermittent minor bands of felsic dykes/feldspar porphyry's and granodiorite units within this section. Also several quartz veinlets throughout that often host disseminated sulfides of Py/Po(?). Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Random sections of this unit are weakly magnetic (0..010 to 7.52). Certain sections exhibit parallel units of fracturing and consequent healing at angles (35 degree TCA) cross-cutting remnant bedding/foliation. Some of the di-ep-amph alt patches contain blebs/patches pf Py/Po(?), locally reaching up to 0.5% in certain sections. The fine grained felsic bands seems to envelope the di-ep-amph alt bands (?).
SOU-21-05	124.45	125.84	1.39	4B	Feldspar Porphyry	Fine to med grained, felsic unit, light to dark grey, composed of predominately quartz, plagioclase and less amounts of biotite. Millimetric sized feldspar phenocrysts throughout that produce a porphyritic texture.

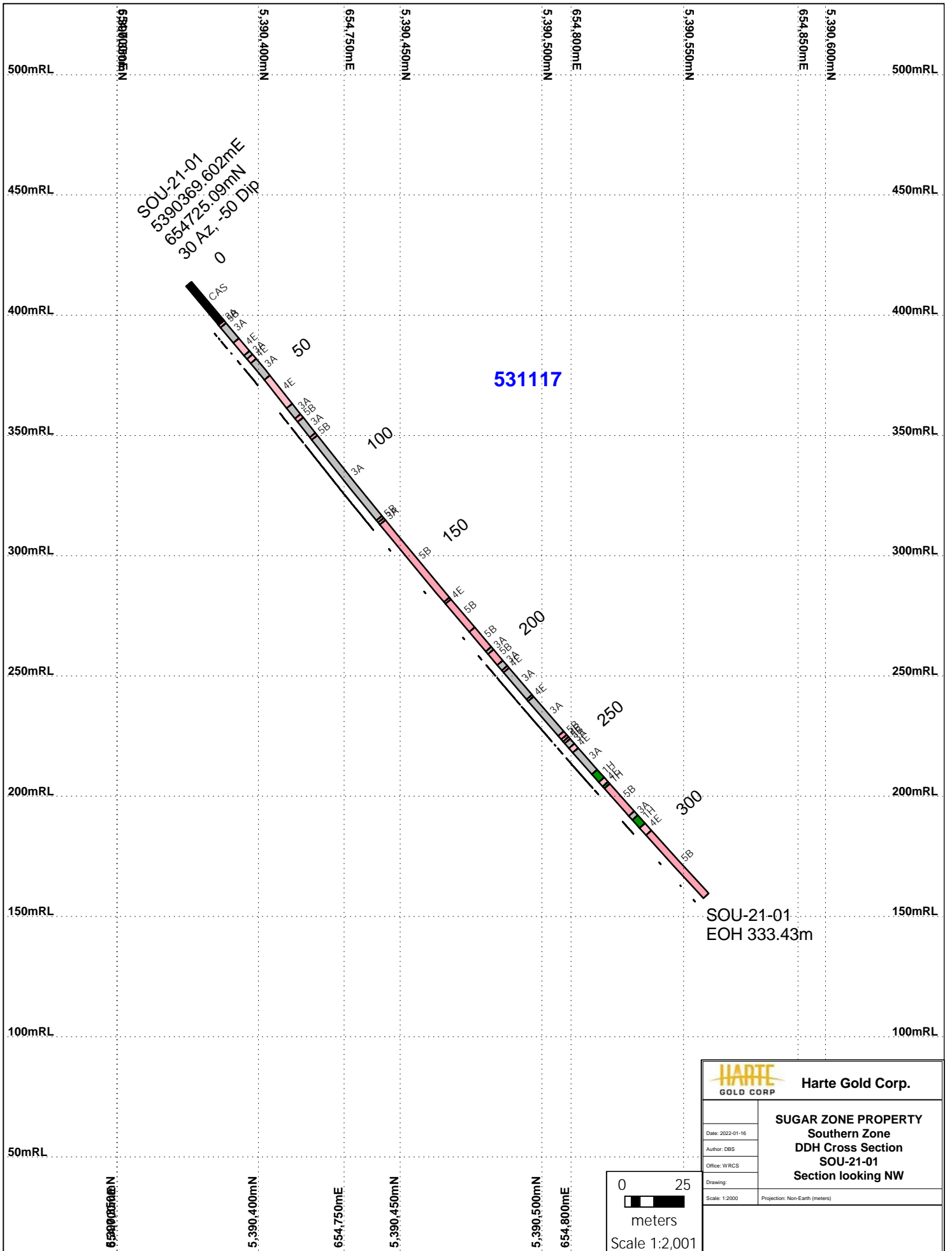
SOU-21-05	125.84	132.74	6.9	1H	Mafic Tuff	Dark green to greenish-grey, fine-occasionally med grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-ep-di). Several intermittent minor bands of felsic dykes/feldspar porphyry's and granodiorite units within this section that appear to have sharp boundaries with the mafic tuffs.. Very thin quartz (occasionally smoky?) veinlets throughout this section. Intervals of fine laminations wax and wane throughout this unit. Fine grained bands/laminations are often boudinaged. Minor healed fractures (qz-carbonate?) can be observed within this unit.
SOU-21-05	132.74	134.25	1.51	4E	Pegmatite	Pinkish grey to greyish red, medium to coarse grained, massive, qz-fs-bt pegmatite/granite (?). There are minor interlayers of units of 5B towards the base of the unit. Minor sulphides are observed mineralized within the pegmatite associated to either some minor wall rock (1H laminations) or dark greenish black minerals (amph/bt?).
SOU-21-05	134.25	137.69	3.44	5B	Granodiorite	Light blue-grey, medium-grained, massive, equi-granular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, plagioclase and speckled with biotite and amphibole. Sharp upper and lower contacts with the pegmatite.
SOU-21-05	137.69	139.61	1.92	4E	Pegmatite	Pinkish grey to greyish red, medium to coarse grained, massive, qz-fs-bt pegmatite/granite (?). Sharp upper and lower diffuse contact with the granodiorite. The section is fractured (parallel sets at 50 degrees to TCA) from 138.56 to 138.69m. No visible sulphides observed within this section.
SOU-21-05	139.61	148.98	9.37	5B	Granodiorite	Light blue-grey, medium-grained, massive, equi-granular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, plagioclase and speckled with biotite and amphibole. Sharp upper (45 degree) and lower contacts (60 degree TCA). No visible sulphides observed within this section.
SOU-21-05	148.98	151.96	2.98	4E	Pegmatite	Pinkish grey to light brown, medium to coarse grained, massive, qz-fs-bt pegmatite/granite (?). Very minor sulphides associated with the the bt or amph laths within the unit. There is a fracture cutting the TCA at around 25 degrees to the basal contact of the unit with possible 1H. Sharp upper and lower contacts.
SOU-21-05	151.96	174.77	22.81	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di-ep). Some of the bands are boudinaged. Some of the di-ep-amph alt patches contain blebs/patches of po +/- py, locally reaching up to 2% in certain sections. This unit is cut by minor lithologies of pegmatite, feldspar porphyry, and greywacke.
SOU-21-05	174.77	177.99	3.22	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, feldspar, and speckled with biotite and amphibole. The upper 99 cm of this unit is characterized by a minor lithology of light grey, very coarse-grained, massive qz-fs-bt pegmatite.

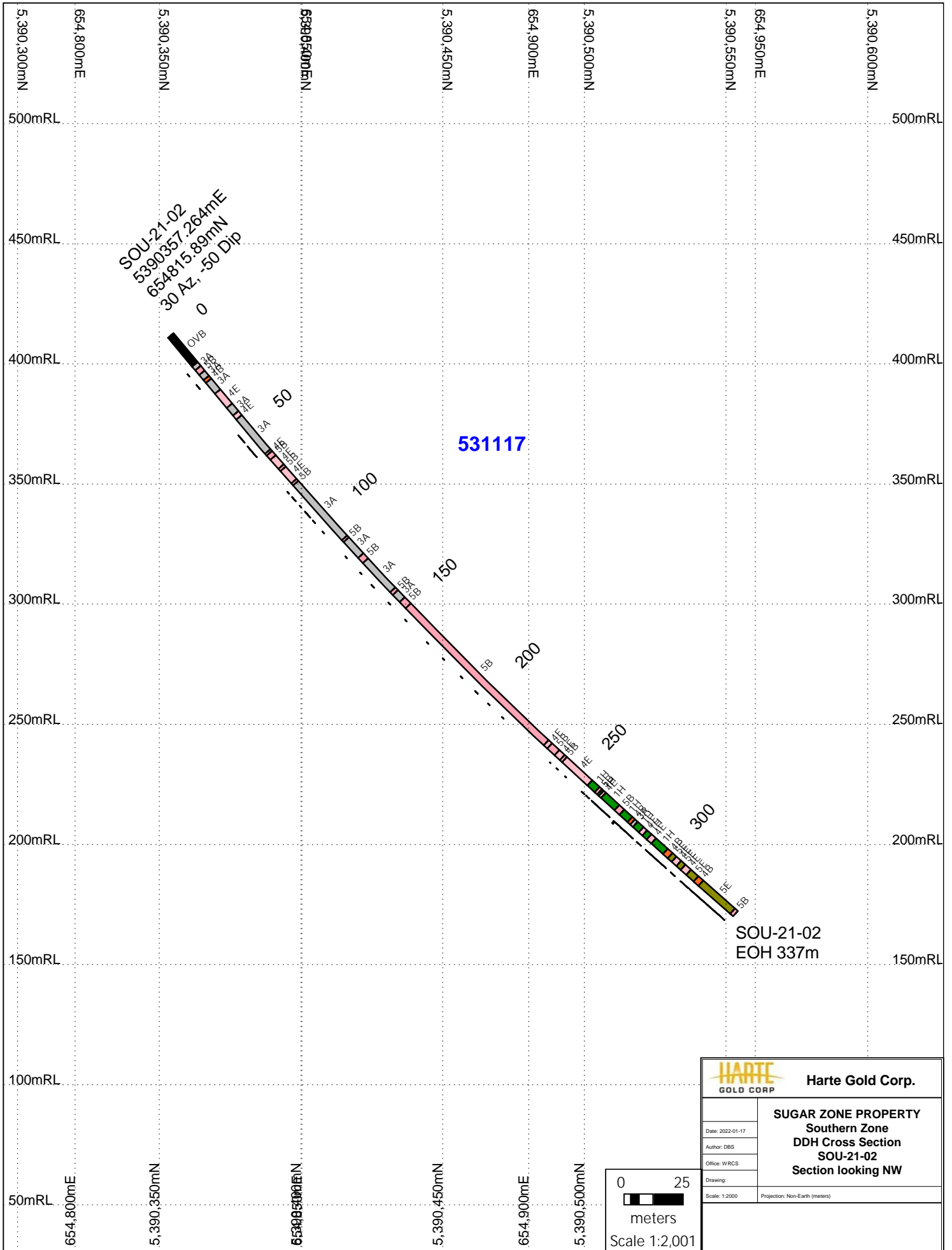
SOU-21-05	177.99	179.62	1.63	4B	Feldspar Porphyry	Light grey, fine- to medium-grained, foliated, porphyritic feldspar porphyry. This unit is characterized by millimetric feldspar phenocrysts that are moderately strained, within a finer-grained, qz-fs matrix, producing a porphyritic texture. Sericite alt (?) along healed fractures within the unit. This unit is extensively cut by dark green, fine- to medium-grained, strongly foliated, soft (low hardness), bt-(+/-chl) mafic dykes or lamprophyres.
SOU-21-05	179.62	183.01	3.39	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di-ep). Some of the bands are boudinaged. Some of the di-ep-amph alt patches contain blebs/patches of po +/- py, locally reaching up to 2% in certain sections. This unit is cut by minor units of feldspar porphyry. There are three, 1-2 cm-wide quartz veins in between 180.50 and 181.10 m, where the first has 1-2% diss py (180.52-180.53 m), the second has up to 1% fracture-controlled py-po at the vein salvages (180.94-180.95 m), and the third vein has developed a crack-seal texture (wall-rock laminations) with trace fracture-controlled py-po (181.04-181.05 m).
SOU-21-05	183.01	190.85	7.84	4B	Feldspar Porphyry	Light grey, fine- to medium-grained, foliated, porphyritic feldspar porphyry. This unit is characterized by millimetric feldspar phenocrysts that are moderately strained, within a finer-grained, qz-fs matrix, producing a porphyritic texture. Sericite alt (?) along healed fractures within the unit. This unit has numerous minor units of mafic tuff, and its lower contact with the mafic tuff is characterized by an 11 cm-wide quartz vein (190.85-190.96 m). The upper 3 cm of the vein is banded, and the lower 8 cm of the vein is more massive. There is no significant change in sulfide mineralization or alteration within this unit while approaching the vein.
SOU-21-05	190.85	195.7	4.85	1H	Mafic Tuff	Green-grey, fine-grained, banded, foliated mafic tuff with alternating layers of alteration (bt-amph-di-ep). Some of the bands are boudinaged. Some of the di-ep-amph alt patches contain blebs/patches of po +/- py, locally reaching up to 2% in certain sections. This unit has numerous minor units of tonalite and feldspar porphyry, and its upper contact with the feldspar porphyry is characterized by an 11 cm-wide quartz vein (190.85-190.96 m). The upper 3 cm of the vein is banded, and the lower 8 cm of the vein is more massive, where this unit has 2-3% pyrite at/near its contact with the quartz vein.
SOU-21-05	195.7	223.13	27.43	5E	Tonalite	Grey, medium-grained, foliated, qz-fs-bt tonalite. This unit has minor amphibole and 1% disseminated pyrite. This unit is cut by minor granodiorite, and has minor lithologies of greywacke (203.52-204.02 m), and feldspar porphyry (212.60-213.23; 216.84-217.45 m). This unit is cut by minor foliation-parallel quartz veinlets with trace fracture-controlled pyrite, and grey/white laminations/salvages, that are likely plagioclase feldspar. This unit is cut by a foliation-parallel crack-seal qz vein from 221.24-221.35 m with up to 1% diss pyrite.

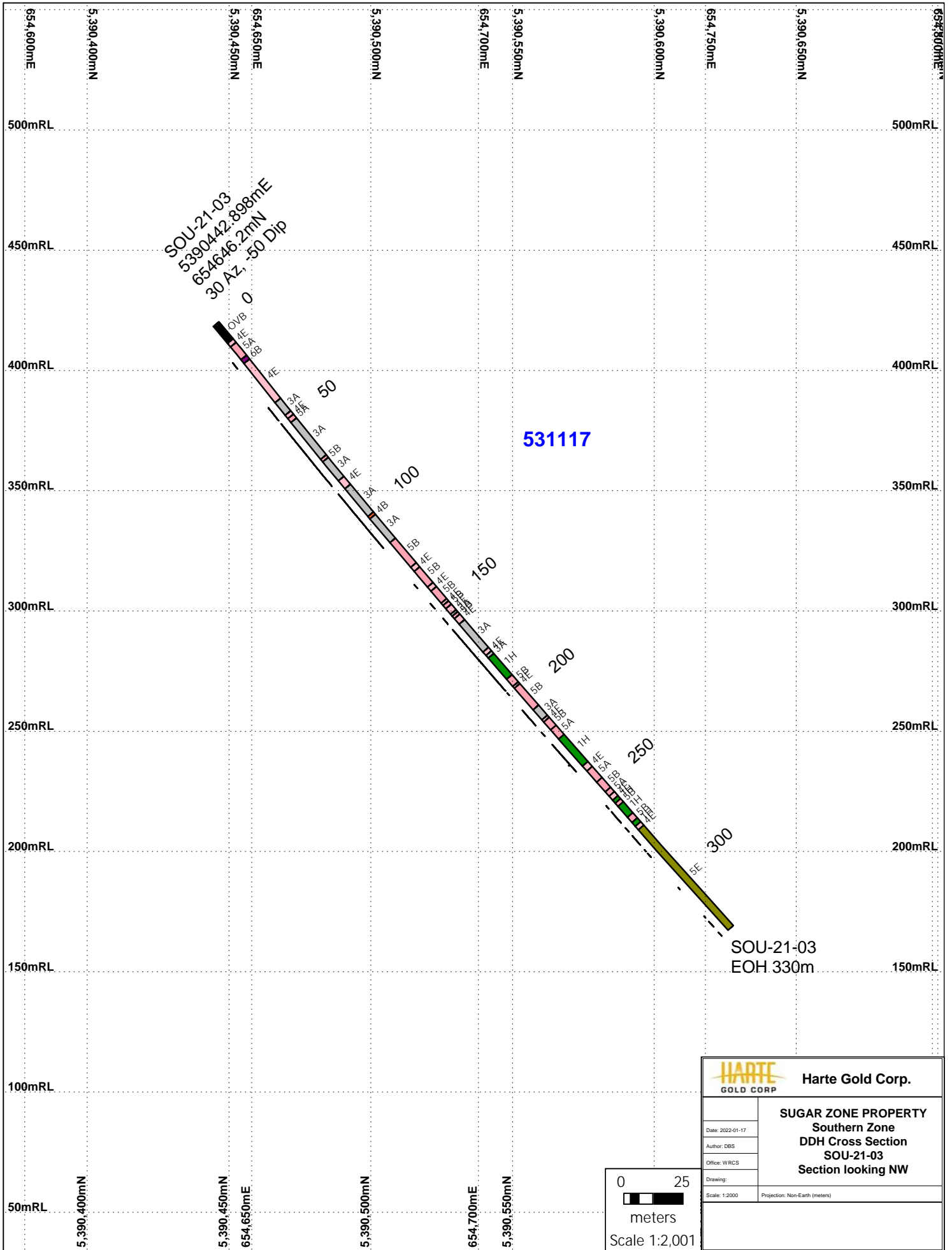
SOU-21-05	223.13	228.53	5.4	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite/granite.
SOU-21-05	228.53	233.5	4.97	5E	Tonalite	Grey, medium-grained, foliated, qz-fs-bt tonalite. This unit has minor amphibole and 1% disseminated pyrite. This unit is cut by a minor, crack-seal qz vein from 230.98-231.06 m with wall rock laminations and up to 1% fracture-controlled pyrite.
SOU-21-05	233.5	235.75	2.25	4B	Feldspar Porphyry	Dark grey, fine-grained, foliated, porous feldspar porphyry(?). This unit has up to 0.5% diss pyrite, and stretched amphibole along foliation. There is a possibility that a strong albitization event created the porosity in this unit? This unit is cut by minor tonalite, pegmatite, and granodiorite.
SOU-21-05	235.75	244.31	8.56	5E	Tonalite	Grey, medium-grained, foliated, qz-fs-bt tonalite. This unit has minor amphibole and 1% disseminated pyrite. This unit has a minor lithology of pegmatite from 242.11-242.48 m.
SOU-21-05	244.31	246.97	2.66	4B	Feldspar Porphyry	Light grey, fine- to medium-grained, foliated, porphyritic feldspar porphyry. This unit is characterized by millimetric feldspar phenocrysts that are moderately strained, within a finer-grained, qz-fs matrix, producing a porphyritic texture. The foliation is defined by the feldspar phenocrysts, as well as elongate biotite. Sericite alt (?) along healed fractures within the unit. This unit has trace disseminated pyrite.
SOU-21-05	246.97	250.03	3.06	5E	Tonalite	Grey, medium-grained, foliated, qz-fs-bt tonalite. This unit has minor amphibole and 1% disseminated pyrite. From 249-250.03 m, there is an increase in epidote alteration (pervasive).
SOU-21-05	250.03	253.31	3.28	5A	Granite	Pinkish-grey, medium-grained, massive, equigranular, qz-fs-mica granite with trace fracture-controlled pyrite. This unit has minor fracture-controlled epidote alteration.
SOU-21-05	253.31	256.7	3.39	5E	Tonalite	Greenish grey, medium-grained, foliated, qz-fs-bt tonalite. This unit has minor amphibole and 1% disseminated pyrite. This unit has moderate pervasive epidote alteration.
SOU-21-05	256.7	261.98	5.28	5A	Granite	Pinkish-grey, medium-grained, massive, equigranular, qz-fs-mica granite with trace fracture-controlled pyrite. This unit also has minor units of pegmatite.
SOU-21-05	261.98	263.47	1.49	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite. This unit has trace blebby pyrite.
SOU-21-05	263.47	281.4	17.93	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, feldspar, and speckled with biotite and amphibole.
SOU-21-05	281.4	282.54	1.14	5A	Granite	Pinkish-grey, medium-grained, massive, equigranular, qz-fs-mica granite.
SOU-21-05	282.54	293.62	11.08	5B	Granodiorite	Light blue-grey, medium-grained, massive, equigranular qz-fs-bt granodiorite, Unit is composed predominately of quartz/smoky quartz, feldspar, and speckled with biotite and amphibole. This unit has weak fracture-controlled epidote alteration.
SOU-21-05	293.62	296.9	3.28	5A	Granite	Pinkish-grey, medium-grained, massive, equigranular, qz-fs-mica granite with trace fracture-controlled pyrite. This unit also has minor units of pegmatite.

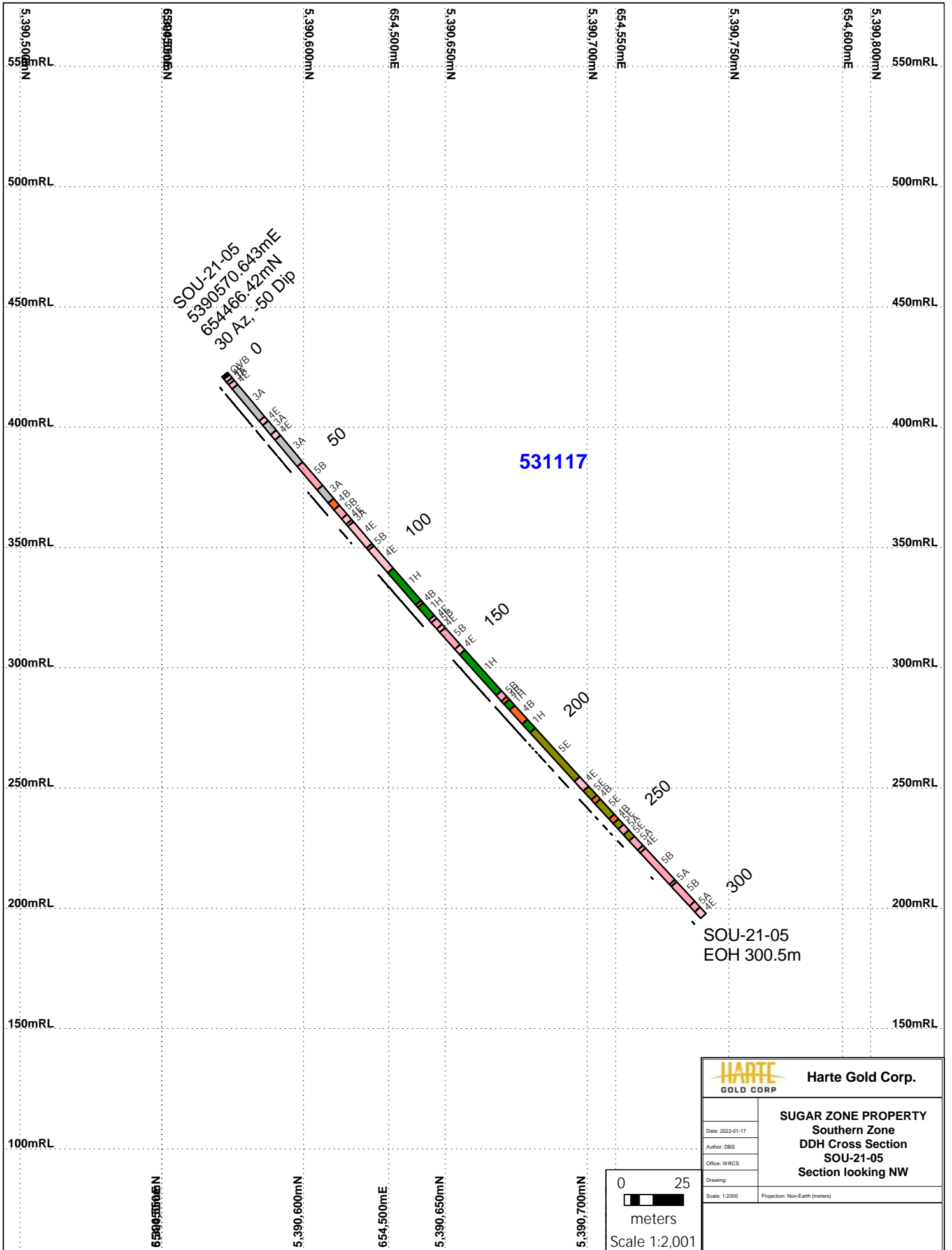
SOU-21-05	296.9	300.5	3.6	4E	Pegmatite	Pinkish-grey, medium- to very coarse-grained, massive, qz-fs-bt pegmatite. 299.60-300.50 m has a minor lithology of pinkish-grey, medium-grained, massive, equigranular granite. From 299.75-299.76 m, there is a quartz veinlet with 2-3% pyrite. It is cutting a massive unit, thus is likely post-Au mineralization.
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Appendix D – Southern Zone – 2021 Drill Hole Cross Sections

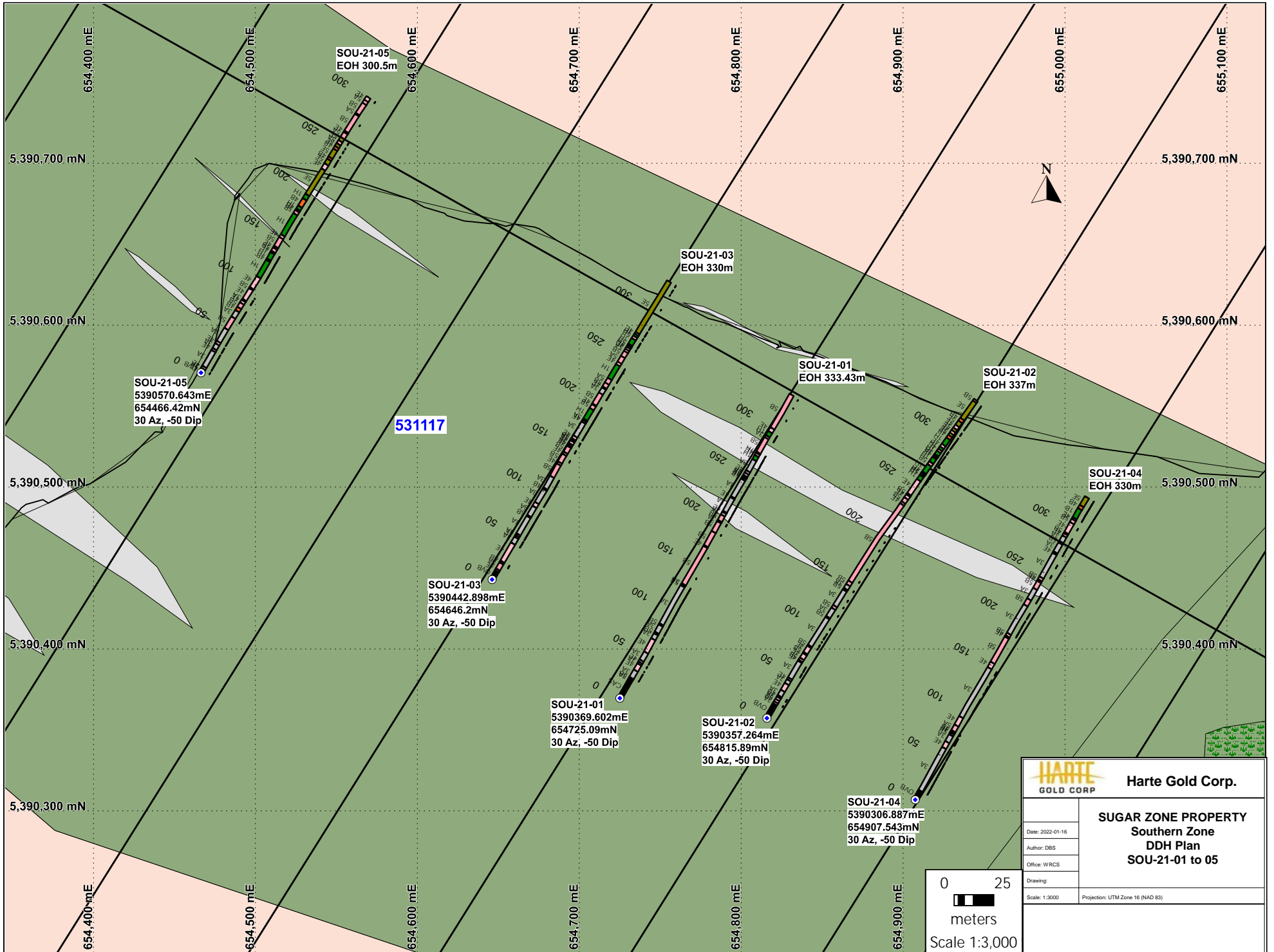








Appendix E – Southern Zone – 2021 Drill Hole Plans



Appendix F – Southern Zone – 2021 Actlabs Assay Certificates



Report No.: A21-19392
Report Date: 08-Nov-21
Date Submitted: 15-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

162 Rock samples were submitted for analysis.

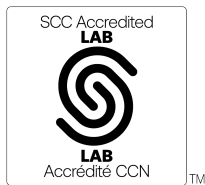
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REPORT A21-19392

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
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
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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

CERTIFIED BY:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-19392
Report Date: 08-Nov-21
Date Submitted: 15-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

162 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-18 11:15:36

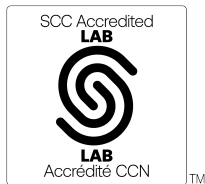
REPORT A21-19392

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
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Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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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	0.2	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	0.2
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Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830103																							
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830123																							
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Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830154																							
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830159																							
830160																							
830161																							
830162																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830001															
830002															
830003															
830004															
830005															
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830044															
830045															
830046															
830047															
830048															
830049															
830050															
830051															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830052															
830053															
830054	< 0.1	0.1	1.0	0.2	0.3	0.3	0.021	0.54	13.6	11	5.2	2.4	0.307	0.085	0.16
830055															
830056															
830057															
830058															
830059															
830060															
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830096															
830097															
830098															
830099															
830100															
830101															
830102															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830103															
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830150															
830151															
830152															
830153															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830154															
830155															
830156															
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830158															
830159															
830160															
830161															
830162															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										173		9.58		> 5000						158			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.26		2.56			80		929	10.5		7.4	14.8		5.0			45.8	7.79		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		44.0		116		99.1	175
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2130				0.90		74.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 96 (4 Acid) Meas																		11.1		49.3		28.2	42.6
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.4	0.34	1.82	8.07	1.90	0.47	0.4	90	79	928	6.54	3.6	37.2	2.7	2.5	0.9	1.69	6.33	22.6	1.23	18.6	6.0
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	6.54
OREAS 621 (4 Acid) Meas		13.8	1.33	0.51	6.35	2.01	1.96	280	35	31	483	3.83	4.0	25.7		1.7		65.2	3.18	29.8		4.08	5.2
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	5.64
Oreas 77b (4 Acid) Meas		16.0	0.37	2.26	1.63	0.32	2.75	1.1	30	224	619	27.4	1.1	> 5000		0.4		1.51	2.10	> 500		3.35	
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	280	640	29.9	1.15	113000		0.470		1.62	2.32	1550		3.44	
OREAS 228b (Fire Assay) Meas	8710																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8670																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8730																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8700																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8900																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	491																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	493																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	501																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	512																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	516																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		33.0	0.79	13.7	3.97	0.57	3.32	0.3	62		1130	5.64	1.8	2100		1.0	0.18	3.27	82.0		0.87		
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1	0.17	3.44	78.0		0.84		
830002 Orig	5																						
830002 Dup	< 5																						
830016 Orig	< 5																						
830016 Dup	< 5																						
830025 Orig	< 5																						
830025 Dup	< 5																						
830037 Orig	< 5																						
830037 Dup	< 5																						
830051 Orig	< 5																						
830051 Split PREP DUP	< 5																						
830051 Orig	< 5																						
830051 Dup	< 5																						
830054 Orig		75.9	> 3.00	1.56	9.00	1.38	2.21	< 0.1	88	117	548	3.43	3.6	81.5	1.1	1.8	0.4	0.12	9.12	18.0	1.29	0.07	< 0.1
830054 Dup		78.0	> 3.00	1.67	9.10	1.56	2.35	< 0.1	94	136	576	3.57	3.6	83.2	1.2	1.8	0.4	0.14	10.2	18.5	1.35	0.07	0.2
830059 Orig	< 5																						
830059 Dup	< 5																						
830071 Orig	< 5																						
830071 Dup	< 5																						
830085 Orig	< 5																						
830085 Dup	< 5																						
830094 Orig	< 5																						
830094 Dup	< 5																						
830101 Orig	9																						
830101 Split PREP DUP	8																						
830105 Orig	9																						
830105 Dup	7																						
830119 Orig	17																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
830119 Dup	14																						
830128 Orig	6																						
830128 Dup	6																						
830139 Orig	6																						
830139 Dup	7																						
830151 Orig	7																						
830151 Split PREP DUP	7																						
830153 Orig	6																						
830153 Dup	6																						
830162 Orig	< 5																						
830162 Split PREP DUP	< 5																						
830162 Orig	< 5																						
830162 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	5																						
Method Blank	5																						
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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	2	6	5	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	1	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	< 1	< 0.01	< 0.1	2.0	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.6

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
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	0.2	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	0.2	
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 72a (4 Acid) Meas			6.0																				318	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					133				20.9						775	1350	127	382	49.3	37.4	4.8	26.0	420	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1320										> 200	9.5											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	141		54.4						9.00															2280
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 96 (4 Acid) Meas	440										66	5.5												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas	338	16.3	8.7	144	25.3	43.6	120	13.4	1.06	0.5	14	1.4		363	40.7	81.0	9.5	33.4	6.1	5.5	0.8	4.8	4490	
OREAS 923 (4 Acid) Cert	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	4230	
OREAS 621 (4 Acid) Meas	> 10000	25.0	76.0	83.9	11.0	65.6	148	9.0	13.7	1.7	5	28.1			17.3	44.7					0.5		3630	
OREAS 621 (4 Acid) Cert	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		3630	
Oreas 77b (4 Acid) Meas	199	4.2	1510	18.5	6.2	35.4	34	2.8		0.1	1	5.2	1.1	22	14.7	25.4							3110	
Oreas 77b (4 Acid) Cert	205	4.61	2050	19.1	6.55	34.4	37.9	3.26		0.112	1.59	9.100	1.35	118	15.8	27.7							3430	
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
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OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
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Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	109	7.0	144		9.4	77.9	69	3.4	3.10	< 0.1	1	0.6		211	15.0	27.8						49.6	
OREAS 70b (4 Acid) Cert	112	10	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2						52.0	
830002 Orig																							
830002 Dup																							
830016 Orig																							
830016 Dup																							
830025 Orig																							
830025 Dup																							
830037 Orig																							
830037 Dup																							
830051 Orig																							
830051 Split PREP DUP																							
830051 Orig																							
830051 Dup																							
830054 Orig	70.9	15.2	0.3	76.0	11.0	726	121	4.9	135	< 0.1	1	< 0.1	< 0.1	613	29.0	63.4	7.6	28.0	4.1	3.4	0.4	2.3	34.3
830054 Dup	75.0	15.5	0.4	83.4	11.5	778	124	6.0	150	< 0.1	1	< 0.1	< 0.1	642	30.0	65.4	7.8	28.4	5.1	3.5	0.4	2.4	35.7
830059 Orig																							
830059 Dup																							
830071 Orig																							
830071 Dup																							
830085 Orig																							
830085 Dup																							
830094 Orig																							
830094 Dup																							
830101 Orig																							
830101 Split PREP DUP																							
830105 Orig																							
830105 Dup																							
830119 Orig																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830119 Dup																							
830128 Orig																							
830128 Dup																							
830139 Orig																							
830139 Dup																							
830151 Orig																							
830151 Split PREP DUP																							
830153 Orig																							
830153 Dup																							
830162 Orig																							
830162 Split PREP DUP																							
830162 Orig																							
830162 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.4	0.2	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	0.3
Method Blank	< 0.2	0.3	0.8	< 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	1.2
Method Blank	< 0.2	0.2	1.0	< 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	< 0.2

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.67
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	13.1	1.8					22.5		38.5	374	0.368	0.116	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									335						16.6
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 96 (4 Acid) Meas									97.1						4.35
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.0	5.2		0.84	84.9	13	16.9	2.9	0.421	0.064	0.73
OREAS 923 (4 Acid) Cert		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			0.9	0.1		1.9		2.02	> 5000	6	5.3	2.6	0.188	0.036	4.70
OREAS 621 (4 Acid) Cert			0.990	0.140		2.35		1.96	13600	6.24	7.48	2.83	0.149	0.0359	4.48
Oreas 77b (4 Acid) Meas					0.2	2.7	0.020	1.35	55.6		6.2	1.6			
Oreas 77b (4 Acid) Cert					0.280	3.07	0.0220	1.37	61.0		6.61	1.71			
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
OREAS 681 (4 Acid) Meas										26			0.573	0.137	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										11			0.248	0.104	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
OREAS 70b (4 Acid) Meas					0.3	4.5		0.33	12.9	12	6.5	1.6	0.174	0.022	0.30
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
830002 Orig															
830002 Dup															
830016 Orig															
830016 Dup															
830025 Orig															
830025 Dup															
830037 Orig															
830037 Dup															
830051 Orig															
830051 Split PREP DUP															
830051 Orig															
830051 Dup															
830054 Orig	< 0.1	0.2	1.0	0.2	0.2	0.3	0.020	0.53	13.3	11	5.2	2.4	0.308	0.085	0.16
830054 Dup	< 0.1	0.1	1.1	0.2	0.4	0.4	0.021	0.55	13.8	11	5.2	2.5	0.307	0.085	0.16
830059 Orig															
830059 Dup															
830071 Orig															
830071 Dup															
830085 Orig															
830085 Dup															
830094 Orig															
830094 Dup															
830101 Orig															
830101 Split PREP DUP															
830105 Orig															
830105 Dup															
830119 Orig															



Report No.: A21-20005
Report Date: 28-Oct-21
Date Submitted: 22-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

110 Rock samples were submitted for analysis.

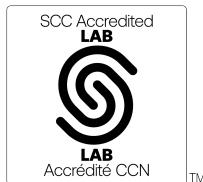
Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2-Tbay-Harte Gold | QOP AA-Au (Au - Fire Assay AA) | 2021-10-26 13:15:50

REPORT A21-20005

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Notes:

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



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

[Handwritten signature]

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830163	< 5
830164	< 5
830165	< 5
830166	7
830167	< 5
830168	< 5
830169	< 5
830170	5
830171	< 5
830172	< 5
830173	< 5
830174	< 5
830175	< 5
830176	< 5
830177	< 5
830178	< 5
830179	< 5
830180	5390
830181	< 5
830182	< 5
830183	< 5
830184	< 5
830185	< 5
830186	< 5
830187	< 5
830188	< 5
830189	< 5
830190	< 5
830191	< 5
830192	< 5
830193	< 5
830194	< 5
830195	< 5
830196	< 5
830197	< 5
830198	5
830199	5
830200	7010
830201	7
830202	5
830203	5
830204	5
830232	6
830205	6
830206	5
830207	18
830208	5
830209	5
830210	5
830211	7
830212	6

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830213	6
830214	5
830215	5
830216	7
830217	6
830218	5
830219	7
830220	3490
830221	22
830222	11
830223	7
830224	5
830225	6
830226	7
830227	6
830228	7
830229	7
830230	6
830231	< 5
830233	< 5
830234	< 5
830235	< 5
830236	< 5
830237	< 5
830238	< 5
830239	< 5
830240	5500
830241	< 5
830242	< 5
830243	< 5
830244	< 5
830245	< 5
830246	< 5
830247	< 5
830248	< 5
830249	< 5
830250	< 5
830251	< 5
830252	< 5
830253	< 5
830254	< 5
830255	< 5
830256	< 5
830257	< 5
830258	< 5
830259	< 5
830260	7110
830261	5
830262	< 5
830263	< 5
830264	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830265	< 5
830266	< 5
830267	< 5
830268	< 5
830269	< 5
830270	< 5
830271	8
830272	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8260
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8660
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8610
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8640
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8620
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8410
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	503
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	505
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	517
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	509
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	504
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	511
Oreas E1336 (Fire Assay) Cert	510
830164 Orig	< 5
830164 Dup	< 5
830178 Orig	< 5
830178 Dup	< 5
830187 Orig	5
830187 Dup	< 5
830199 Orig	5
830199 Dup	5
830211 Orig	7

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830211 Split PREP DUP	7
830216 Orig	7
830216 Dup	6
830223 Orig	7
830223 Dup	7
830233 Orig	< 5
830233 Dup	< 5
830247 Orig	< 5
830247 Dup	< 5
830256 Orig	< 5
830256 Dup	< 5
830262 Orig	< 5
830262 Split PREP DUP	< 5
830272 Orig	< 5
830272 Split PREP DUP	< 5
830272 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	5
Method Blank	< 5
Method Blank	< 5



Report No.: A21-20084
Report Date: 21-Jan-22
Date Submitted: 25-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

75 Rock samples were submitted for analysis.

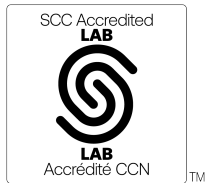
Table with 2 columns: Analytical package requested (UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)) and Testing Date (2021-12-23 15:11:13)

REPORT A21-20084

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Report No.: A21-20084
Report Date: 21-Jan-22
Date Submitted: 25-Oct-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

75 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-27 14:15:55

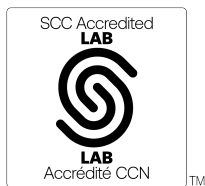
REPORT A21-20084

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
830273	< 5																						
830274	< 5																						
830275	< 5																						
830276	< 5																						
830277	< 5																						
830278	< 5																						
830279	< 5																						
830280	3550																						
830281	< 5																						
830282	< 5																						
830283	< 5																						
830284	< 5																						
830285	< 5																						
830286	< 5																						
830287	< 5																						
830288	< 5																						
830289	< 5																						
830290	< 5																						
830291	< 5																						
830292	< 5																						
830293	< 5																						
830294	< 5																						
830295	< 5																						
830296	< 5																						
830297	< 5																						
830298	< 5																						
830299	< 5																						
830300	5480																						
830301	6																						
830302	< 5																						
830303	< 5																						
830304	< 5																						
830305	< 5																						
830306	< 5																						
830307	< 5																						
830308	< 5																						
830309	< 5																						
830310	< 5																						
830311	< 5																						
830312	< 5																						
830313	< 5																						
830314	< 5																						
830315	< 5																						
830316	5																						
830317	< 5																						
830318	< 5																						
830319	< 5																						
830320	7220																						
830321	48																						
830322	5																						
830323	< 5																						

Results

Activation Laboratories Ltd.

Report: A21-20084

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
830324	< 5																						
830325	< 5																						
830326	< 5																						
830327	< 5																						
830328	< 5																						
830329	10																						
830330	< 5																						
830331	< 5																						
830332	6																						
830333	5																						
830334	7																						
830335	< 5																						
830336	< 5																						
830337	6																						
830338	< 5																						
830339	8																						
830340	3590																						
830341	6																						
830342	< 5																						
830343	7																						
830344	6																						
830345	< 5	53.5	2.78	0.44	8.39	1.51	1.80	< 0.1	27	19	271	2.21	5.3	4.7	0.7	1.2	0.3	0.14	2.11	4.3	0.65	0.03	< 0.1
830346	< 5																						
830347	< 5	57.2	2.99	0.43	8.68	1.63	1.82	< 0.1	26	15	261	1.89	5.9	4.0	1.0	1.5	0.3	0.14	2.71	3.9	0.68	0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830273																							
830274																							
830275																							
830276																							
830277																							
830278																							
830279																							
830280																							
830281																							
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830299																							
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830311																							
830312																							
830313																							
830314																							
830315																							
830316																							
830317																							
830318																							
830319																							
830320																							
830321																							
830322																							
830323																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830324																							
830325																							
830326																							
830327																							
830328																							
830329																							
830330																							
830331																							
830332																							
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830338																							
830339																							
830340																							
830341																							
830342																							
830343																							
830344																							
830345	53.6	15.6	1.0	80.5	6.3	130	177	7.5	1.54	< 0.1	2	< 0.1	< 0.1	556	37.9	67.7	6.8	22.4	4.0	2.6	0.3	1.5	5.4
830346																							
830347	56.0	16.1	1.0	90.0	8.3	138	194	9.5	1.51	< 0.1	2	< 0.1	< 0.1	614	45.7	82.7	8.1	27.0	3.9	3.0	0.4	1.8	3.7

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830273															
830274															
830275															
830276															
830277															
830278															
830279															
830280															
830281															
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830297															
830298															
830299															
830300															
830301															
830302															
830303															
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830314															
830315															
830316															
830317															
830318															
830319															
830320															
830321															
830322															
830323															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830324															
830325															
830326															
830327															
830328															
830329															
830330															
830331															
830332															
830333															
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830337															
830338															
830339															
830340															
830341															
830342															
830343															
830344															
830345	< 0.1	< 0.1	0.6	< 0.1	0.6	0.1	< 0.001	0.57	12.8	3	13.8	2.7	0.228	0.049	< 0.01
830346															
830347	< 0.1	0.1	0.9	0.1	0.8	0.3	< 0.001	0.65	15.5	3	14.5	4.5	0.219	0.049	< 0.01

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										157		8.72		> 5000							140		
Oreas 72a (4 Acid) Cert										228		9.63		6930.000							157		
Oreas 72a (4 Acid) Meas										170		9.82		> 5000							165		
Oreas 72a (4 Acid) Cert										228		9.63		6930.000							157		
OREAS 101b (4 Acid) Meas				1.22		2.38			74		949	10.7		11.4	14.5		4.8			45.8	6.94		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.21		2.46			80		892	10.4		9.8	15.6		5.3			46.9	6.57		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		43.9		119		87.8	160
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		44.2		134		98.8	174
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2020				0.83		73.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		16.8	0.04	0.60	6.86	3.66	0.04		77	60	415	6.54	5.0	41.7		7.5	0.63	3.63	81.4		4.15	2.6	
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86	0.551	3.79	83.0		4.05	3.30	
OREAS 45d (4-Acid) Meas		20.1	0.09	0.26	7.96	0.43	0.18		124	475	459	14.1	2.1	223	1.4	0.7	0.5		3.46	29.4	0.53	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 96 (4 Acid) Meas																		10.5		48.7		27.7	38.8
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 96 (4 Acid) Meas																		11.2		48.0		27.6	41.5
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.2	0.33	1.85	7.95	2.11	0.45	0.4	86	77	1000	6.47	3.5	34.8	2.6	2.2	0.9	1.64	6.90	22.5	1.25	22.9	6.4
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	6.54
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8780																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8760																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8730																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	518																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	508																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	517																						
Oreas E1336 (Fire Assay) Cert	510.000																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas		16.1	0.95	1.07	4.57	2.77	3.42		200	44	3280	20.6	3.0	67.0	2.1	0.8	0.7	0.83	0.74	373	1.52	5.99	1.4
Oreas 521 (4 Acid) Cert		16.4	0.98	1.13	4.77	3.16	3.86		209	31	3210	20.7	3.2	73.0	2.1	0.9	0.7	0.89	0.72	386	1.64	5.85	2.4
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
830274 Orig	< 5																						
830274 Dup	< 5																						
830288 Orig	< 5																						
830288 Dup	< 5																						
830297 Orig	< 5																						
830297 Dup	< 5																						
830309 Orig	< 5																						
830309 Dup	< 5																						
830322 Orig	5																						
830322 Split PREP DUP	6																						
830326 Orig	< 5																						
830326 Dup	< 5																						
830331 Orig	< 5																						
830331 Dup	< 5																						
830343 Orig	5																						
830343 Dup	8																						
830347 Orig	< 5																						
830347 Split PREP DUP	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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																							
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	7	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	2	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	6	2	< 0.01	< 0.1	0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
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	0.2	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	0.2	
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 72a (4 Acid) Meas			14.3																				307	
Oreas 72a (4 Acid) Cert			14.7																					316
Oreas 72a (4 Acid) Meas			18.9																					319
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					111				20.5						668	1200	110	337	43.0	36.0	4.3	25.5	415	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 101b (4 Acid) Meas					116				19.7						725	1220	117	349	43.8	34.9	4.6	26.0	420	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1280										199	7.6											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0	
OREAS 98 (4 Acid) Meas	1330										> 200	8.1											> 10000	
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0	
OREAS 13b (4-Acid) Meas	131		47.2						8.51														2140	
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000	
OREAS 904 (4 Acid) Meas	26.6	14.3	94.7	124	29.0	24.1	184		2.29	0.2	3	1.4		210	41.3	82.7					0.9		5760	
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0					1.00		6120	
OREAS 45d (4-Acid) Meas	41.4	20.1	7.7	40.6	9.7	27.3	67	0.8	0.33	< 0.1	< 1	< 0.1		169	16.2	32.4	3.6	12.6	2.8	2.3	0.4	2.4	368	
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	371	
OREAS 96 (4 Acid) Meas	430										63	4.7											> 10000	
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300	
OREAS 96 (4 Acid) Meas	406										66	4.8											> 10000	
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300	
OREAS 923 (4 Acid) Meas	343	20.8	8.6	171	25.7	39.4	128	15.8	1.06	0.5	14	1.5		424	41.9	78.5	9.4	35.3	5.3	6.1	0.8	5.0	4040	
OREAS 923 (4 Acid) Cert	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	4230	
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas	24.0	16.2	232	97.0	18.3	97.9	118	1.7	118	0.2	6	3.6	0.2		85.7	103	7.9	24.4	4.1	4.3	0.6	3.5	5530
Oreas 521 (4 Acid) Cert	24.4	17.4	336	98.0	19.9	158	123	5.6	138	0.2	7	5.7	0.8		139	123	8.4	25.4	4.2	4.0	0.6	3.5	6070
OREAS 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
830274 Orig																							
830274 Dup																							
830288 Orig																							
830288 Dup																							
830297 Orig																							
830297 Dup																							
830309 Orig																							
830309 Dup																							
830322 Orig																							
830322 Split PREP DUP																							
830326 Orig																							
830326 Dup																							
830331 Orig																							
830331 Dup																							
830343 Orig																							
830343 Dup																							
830347 Orig																							
830347 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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																							
Method Blank	< 0.2	0.2	1.2	< 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	0.8
Method Blank	< 0.2	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	0.6
Method Blank	0.6	0.2	0.9	< 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	0.2

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.65
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															
Oreas 72a (4 Acid) Cert															
OREAS 101b (4 Acid) Meas		2.0	13.3	1.7					23.3		35.5	323	0.373	0.120	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas		2.0	12.9	1.7					21.1		35.6	369			
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas									291						14.9
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									307						
OREAS 98 (4 Acid) Cert									345						
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas	< 0.1		3.2	0.4	0.9	2.7		0.54	12.9	13	15.1	8.8		0.112	0.07
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas			1.4	0.2	< 0.1	< 0.1		0.24	19.5	55	13.8	2.6	0.305	0.038	0.05
OREAS 45d (4-Acid) Cert			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 96 (4 Acid) Meas									130						4.38
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 96 (4 Acid) Meas									94.4						
OREAS 96 (4 Acid) Cert									101						
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.1	5.9		0.86	91.5		17.9	3.3			
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas										5			0.191	0.038	4.94
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas										26			0.554	0.135	0.10
OREAS 681 (4 Acid) Cert										27.7			0.588	0.141	0.109
Oreas 521 (4 Acid) Meas		0.3	2.1	0.3	< 0.1	21.2	0.066	0.28	6.4	13	4.2	32.2	0.347	0.078	1.72
Oreas 521 (4 Acid) Cert		0.3	2.1	0.3	0.5	92.0	0.064	0.27	9.3	14	8.3	31.0	0.393	0.081	1.80
OREAS 70b (4 Acid) Meas										11			0.171	0.022	0.29
OREAS 70b (4 Acid) Cert										12			0.181	0.022	0.31
830274 Orig															
830274 Dup															
830288 Orig															
830288 Dup															
830297 Orig															
830297 Dup															
830309 Orig															
830309 Dup															
830322 Orig															
830322 Split PREP DUP															
830326 Orig															
830326 Dup															
830331 Orig															
830331 Dup															
830343 Orig															
830343 Dup															
830347 Orig															
830347 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 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	< 0.1	< 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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-20230
 Report Date: 29-Oct-21
 Date Submitted: 27-Oct-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

80 Rock samples were submitted for analysis.

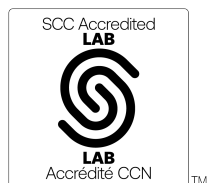
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-10-29 11:38:54

REPORT **A21-20230**

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Notes:

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



LabID: 673

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
 Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830348	< 5
830349	< 5
830350	< 5
830351	< 5
830352	< 5
830353	< 5
830354	< 5
830355	< 5
830356	< 5
830357	< 5
830358	< 5
830359	< 5
830360	5510
830361	20
830362	8
830363	< 5
830364	< 5
830365	< 5
830366	< 5
830367	< 5
830368	< 5
830369	< 5
830370	< 5
830371	5
830372	< 5
830373	< 5
830374	< 5
830375	< 5
830376	< 5
830377	< 5
830378	< 5
830379	< 5
830380	7190
830381	16
830382	8
830383	< 5
830384	< 5
830385	< 5
830386	< 5
830387	< 5
830388	< 5
830389	< 5
830390	< 5
830391	< 5
830392	< 5
830393	< 5
830394	< 5
830395	< 5
830396	< 5
830397	< 5
830398	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
830399	< 5
830400	3600
830401	< 5
830402	< 5
830403	< 5
830404	< 5
830405	< 5
830406	< 5
830407	< 5
830408	< 5
830409	< 5
830410	< 5
830411	< 5
830412	< 5
830413	< 5
830414	< 5
830415	< 5
830416	< 5
830417	< 5
830418	< 5
830419	< 5
830420	5630
830421	15
830422	< 5
830423	< 5
830424	< 5
830425	< 5
830426	7
830427	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8900
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8600
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8560
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	524
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	505
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	516
Oreas E1336 (Fire Assay) Cert	510
830349 Orig	< 5
830349 Dup	< 5
830363 Orig	< 5
830363 Dup	< 5
830372 Orig	< 5
830372 Dup	< 5
830384 Orig	< 5
830384 Dup	< 5
830397 Orig	< 5
830397 Split PREP DUP	< 5
830401 Orig	8
830401 Dup	< 5
830406 Orig	< 5
830406 Dup	< 5
830418 Orig	< 5
830418 Dup	< 5
830427 Orig	< 5
830427 Split PREP DUP	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	5
Method Blank	< 5
Method Blank	< 5



Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

Report No.: A21-20690
Report Date: 22-Nov-21
Date Submitted: 03-Nov-21
Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

89 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-11-04 20:32:39

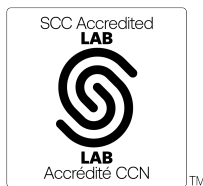
REPORT A21-20690

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Report No.: A21-20690
Report Date: 22-Nov-21
Date Submitted: 03-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

89 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-11-15 09:31:54

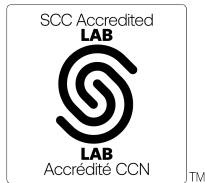
REPORT A21-20690

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
830428	< 5																						
830429	< 5																						
830430	< 5																						
830431	< 5																						
830432	5																						
830433	6																						
830434	< 5																						
830435	< 5																						
830436	< 5																						
830437	< 5																						
830438	< 5																						
830439	< 5																						
830440	7410																						
830441	< 5																						
830442	< 5																						
830443	< 5	77.9	> 3.00	0.44	7.43	2.21	1.78	0.1	23	15	279	1.89	5.0	3.7	0.6	1.2	0.2	0.07	2.39	4.5	0.61	0.05	< 0.1
830444	< 5	70.4	2.86	0.43	7.70	2.21	1.69	< 0.1	23	12	268	1.86	4.7	4.1	0.6	1.3	0.2	0.08	2.38	4.1	0.59	0.04	0.2
830445	< 5																						
830446	< 5																						
830447	< 5																						
830448	< 5																						
830449	< 5																						
830450	< 5																						
830451	< 5																						
830452	< 5																						
830453	< 5																						
830454	< 5																						
830455	< 5																						
830456	< 5																						
830457	< 5																						
830458	< 5																						
830459	< 5																						
830460	3760																						
830461	< 5																						
830462	< 5																						
830463	< 5																						
830464	< 5																						
830465	< 5																						
830466	< 5																						
830467	< 5																						
830468	< 5	54.9	2.94	2.37	7.48	1.20	3.66	< 0.1	94	90	585	4.22	2.4	69.5	1.2	0.8	0.4	0.09	2.95	19.3	1.15	0.10	0.1
830469	< 5																						
830470	< 5																						
830471	< 5																						
830472	< 5																						
830473	< 5																						
830474	< 5																						
830475	< 5																						
830476	< 5																						
830477	< 5																						
830478	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
830479	< 5																						
830480	3720																						
830481	< 5																						
830482	8																						
830483	15																						
830484	< 5																						
830485	< 5																						
830486	8																						
830487	< 5																						
830488	7																						
830489	30																						
830490	< 5																						
830491	23																						
830492	42																						
830493	59																						
830494	18																						
830495	12																						
830496	< 5																						
830497	< 5																						
830498	< 5																						
830499	< 5																						
830500	7390																						
833001	< 5																						
833002	< 5																						
833003	< 5																						
833004	< 5																						
833005	< 5																						
833006	< 5																						
833007	10																						
833008	< 5																						
833009	< 5																						
833010	< 5																						
833011	< 5																						
833012	< 5																						
833013	< 5																						
833014	< 5																						
833015	< 5																						
833016	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830428																							
830429																							
830430																							
830431																							
830432																							
830433																							
830434																							
830435																							
830436																							
830437																							
830438																							
830439																							
830440																							
830441																							
830442																							
830443	66.6	20.6	0.4	101	6.8	148	178	1.1	0.37	< 0.1	1	< 0.1	< 0.1	639	34.0	68.2	6.6	20.3	3.4	2.5	0.3	1.5	8.7
830444	61.4	20.4	< 0.1	106	6.7	145	171	1.2	0.55	< 0.1	1	< 0.1	< 0.1	667	34.6	70.2	6.7	20.2	3.4	2.3	0.3	1.4	6.7
830445																							
830446																							
830447																							
830448																							
830449																							
830450																							
830451																							
830452																							
830453																							
830454																							
830455																							
830456																							
830457																							
830458																							
830459																							
830460																							
830461																							
830462																							
830463																							
830464																							
830465																							
830466																							
830467																							
830468	62.6	17.9	< 0.1	36.3	10.7	560	84	1.1	4.26	< 0.1	< 1	< 0.1	< 0.1	450	23.1	53.0	6.9	24.3	4.3	3.1	0.4	2.3	56.2
830469																							
830470																							
830471																							
830472																							
830473																							
830474																							
830475																							
830476																							
830477																							
830478																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
830479																							
830480																							
830481																							
830482																							
830483																							
830484																							
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833012																							
833013																							
833014																							
833015																							
833016																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830428															
830429															
830430															
830431															
830432															
830433															
830434															
830435															
830436															
830437															
830438															
830439															
830440															
830441															
830442															
830443	0.2	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.59	14.1	3	11.2	2.6	0.182	0.050	< 0.01
830444	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.62	14.2	3	11.3	2.7	0.180	0.047	< 0.01
830445															
830446															
830447															
830448															
830449															
830450															
830451															
830452															
830453															
830454															
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830456															
830457															
830458															
830459															
830460															
830461															
830462															
830463															
830464															
830465															
830466															
830467															
830468	< 0.1	0.2	1.1	0.1	< 0.1	< 0.1	0.003	0.20	4.7	13	2.5	1.0	0.307	0.082	0.01
830469															
830470															
830471															
830472															
830473															
830474															
830475															
830476															
830477															
830478															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
830479															
830480															
830481															
830482															
830483															
830484															
830485															
830486															
830487															
830488															
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830490															
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830493															
830494															
830495															
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830497															
830498															
830499															
830500															
833001															
833002															
833003															
833004															
833005															
833006															
833007															
833008															
833009															
833010															
833011															
833012															
833013															
833014															
833015															
833016															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										170		9.41		> 5000						145			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.25		2.40			72		885	10.6		8.7	14.8		4.6			43.9	7.06		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		41.7		118		91.4	176
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2160				0.82		67.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		15.5	0.04	0.59	6.13	2.20	0.04		75	55	390	6.52	4.8	38.6		7.7		0.59	3.82	74.3		3.91	2.8
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		10.3		46.1		27.0	44.7
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8890																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8850																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8910																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8970																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8800																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	521																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	516																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	522																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	519																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	525																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		12.9	1.50	5.40	7.99	1.43	6.19		226	1370	1320	7.67	1.9	478	1.9	1.5	0.6	0.18	3.89	45.5	1.24	0.09	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		34.0	0.74	14.5	3.91	0.65	3.14	0.4	59		1180	5.80	1.8	2090		0.9		0.26	3.34	74.7		0.94	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
830429 Orig	< 5																						
830429 Dup	< 5																						
830443 Orig	< 5																						
830443 Dup	< 5																						
830444 Orig		70.3	2.91	0.43	7.85	2.22	1.71	< 0.1	23	12	271	1.88	4.7	4.2	0.7	1.3	0.2	0.09	2.38	4.2	0.58	0.04	0.2
830444 Dup		70.5	2.81	0.42	7.55	2.21	1.67	< 0.1	23	11	266	1.84	4.7	4.0	0.6	1.2	0.2	0.08	2.37	4.1	0.60	0.04	0.1
830452 Orig	< 5																						
830452 Dup	< 5																						
830464 Orig	< 5																						
830464 Dup	< 5																						
830477 Orig	< 5																						
830477 Split PREP DUP	< 5																						
830478 Orig	< 5																						
830478 Dup	10																						
830486 Orig	9																						
830486 Dup	6																						
833012 Orig	< 5																						
833012 Dup	< 5																						
833016 Orig	< 5																						
833016 Split PREP DUP	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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	< 5																						
Method Blank	< 5																						
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	7	3	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	13	14	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
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	0.2	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	0.2	
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 72a (4 Acid) Meas			8.1																				335	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					131				19.3						728	1310	134	355	58.0	37.4	4.8	25.3	433	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1280										195	4.6												> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	140		53.7						8.05															2210
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 904 (4 Acid) Meas	26.0	15.4	107	97.5	32.5	26.4	158		2.09	0.2	3	1.4		224	43.8	87.8						0.9	6040	
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120	
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas	442										65	5.3												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas																								
OREAS 923 (4 Acid) Cert																								
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas	96.3	18.9		85.4	17.3	451	59	5.9	1.40	< 0.1	2	0.3		476	19.0	40.3	5.2	20.9	3.8	3.8	0.6	3.2	280
OREAS 681 (4 Acid) Cert	88.0	17.6		80.0	17.5	478	58.0	6.17	1.38	0.0420	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	0.580	3.40	264
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	114	10.2	156		9.4	71.1	63	3.4	4.34	< 0.1	1	0.7		217	14.8	27.0							54.4
OREAS 70b (4 Acid) Cert	112	10.1	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
830429 Orig																							
830429 Dup																							
830443 Orig																							
830443 Dup																							
830444 Orig	61.6	20.5	< 0.1	101	6.6	146	173	1.7	0.67	< 0.1	1	< 0.1	< 0.1	673	34.2	68.4	6.6	20.4	3.4	2.3	0.3	1.5	7.0
830444 Dup	61.1	20.4	< 0.1	110	6.7	143	170	0.7	0.42	< 0.1	1	< 0.1	< 0.1	660	34.9	71.9	6.7	20.1	3.4	2.3	0.3	1.4	6.3
830452 Orig																							
830452 Dup																							
830464 Orig																							
830464 Dup																							
830477 Orig																							
830477 Split PREP DUP																							
830478 Orig																							
830478 Dup																							
830486 Orig																							
830486 Dup																							
833012 Orig																							
833012 Dup																							
833016 Orig																							
833016 Split PREP DUP																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.2	0.2	< 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	0.2
Method Blank	< 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	0.3
Method Blank																							
Method Blank																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.72
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	12.5	1.7					22.4		34.0	344	0.347	0.120	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									322						15.7
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.21
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas	0.2		3.1	0.4	0.8	2.5		0.47	10.4	12	13.4	8.2		0.105	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas										47			0.779	0.042	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									99.9						4.34
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas										13			0.394	0.068	0.71
OREAS 923 (4 Acid) Cert										13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas										6			0.175	0.037	4.70
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
OREAS 681 (4 Acid) Meas		0.3	1.7	0.2	0.4	1.0			12.7	27	6.2	1.4	0.544	0.137	0.10
OREAS 681 (4 Acid) Cert		0.280	1.77	0.270	0.420	1.09			10.2	27.7	6.55	1.44	0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										10			0.191	0.112	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
Oreas 521 (4 Acid) Meas										13			0.334	0.076	1.75
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
OREAS 70b (4 Acid) Meas					0.3	4.1		0.31	13.1	11	5.9	1.7	0.163	0.022	0.29
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
830429 Orig															
830429 Dup															
830443 Orig															
830443 Dup															
830444 Orig	0.3	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.63	14.3	3	11.0	2.5	0.180	0.048	< 0.01
830444 Dup	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.001	0.62	14.0	3	11.7	2.8	0.181	0.046	< 0.01
830452 Orig															
830452 Dup															
830464 Orig															
830464 Dup															
830477 Orig															
830477 Split PREP DUP															
830478 Orig															
830478 Dup															
830486 Orig															
830486 Dup															
833012 Orig															
833012 Dup															
833016 Orig															
833016 Split PREP DUP															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank	< 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	< 0.1	< 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										< 1			< 0.0005	< 0.001	< 0.01



Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

Report No.: A21-20691
Report Date: 22-Nov-21
Date Submitted: 03-Nov-21
Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

76 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-11-05 15:35:15

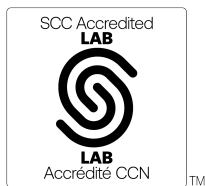
REPORT A21-20691

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

Report No.: A21-20691
Report Date: 22-Nov-21
Date Submitted: 03-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

76 Rock samples were submitted for analysis.

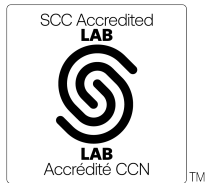
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-6, QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS), 2021-11-15 09:31:54

REPORT A21-20691

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833017	< 5																						
833018	< 5																						
833019	< 5																						
833020	3420																						
833021	< 5																						
833022	< 5																						
833023	< 5																						
833024	< 5																						
833025	< 5																						
833026	42																						
833027	< 5																						
833028	5																						
833029	10																						
833030	< 5																						
833031	5																						
833032	7																						
833033	11																						
833034	< 5																						
833035	7																						
833036	11																						
833037	39																						
833038	10																						
833039	6																						
833040	3610																						
833041	8																						
833042	7																						
833043	< 5																						
833044	8																						
833045	631																						
833046	15																						
833047	10																						
833048	21	28.1	1.64	2.98	7.43	0.53	9.29	< 0.1	266	110	1720	9.27	0.8	102	3.0	0.4	0.9	0.07	0.56	47.4	0.97	0.10	0.3
833049	24																						
833050	< 5																						
833051	6																						
833052	6																						
833053	6																						
833054	5																						
833055	8																						
833056	9	32.2	1.79	2.63	7.36	0.41	8.80	0.1	282	86	1620	8.61	0.9	89.0	2.8	0.5	0.9	0.19	1.77	45.5	0.93	0.61	0.4
833057	7																						
833058	< 5																						
833059	< 5																						
833060	7070																						
833061	9																						
833062	7																						
833063	5																						
833064	6																						
833065	< 5																						
833066	42																						
833067	12																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833068	9																						
833069	9																						
833070	< 5																						
833071	5																						
833072	5																						
833073	6																						
833074	9																						
833075	6																						
833076	10																						
833077	10																						
833078	6																						
833079	8																						
833080	3580																						
833081	6																						
833082	7																						
833083	6																						
833084	7																						
833085	< 5																						
833086	< 5																						
833087	7																						
833088	7																						
833089	< 5																						
833090	< 5																						
833091	< 5																						
833092	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833017																							
833018																							
833019																							
833020																							
833021																							
833022																							
833023																							
833024																							
833025																							
833026																							
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833037																							
833038																							
833039																							
833040																							
833041																							
833042																							
833043																							
833044																							
833045																							
833046																							
833047																							
833048	72.6	15.9	0.4	25.5	25.5	155	12	1.0	0.24	< 0.1	< 1	< 0.1	< 0.1	88	4.0	10.8	1.7	8.2	1.8	3.6	0.7	4.8	38.1
833049																							
833050																							
833051																							
833052																							
833053																							
833054																							
833055																							
833056	101	15.7	0.8	13.0	24.3	223	15	2.9	1.43	< 0.1	< 1	< 0.1	< 0.1	76	4.2	11.1	1.8	8.1	1.7	3.6	0.7	4.7	103
833057																							
833058																							
833059																							
833060																							
833061																							
833062																							
833063																							
833064																							
833065																							
833066																							
833067																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833068																							
833069																							
833070																							
833071																							
833072																							
833073																							
833074																							
833075																							
833076																							
833077																							
833078																							
833079																							
833080																							
833081																							
833082																							
833083																							
833084																							
833085																							
833086																							
833087																							
833088																							
833089																							
833090																							
833091																							
833092																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833017															
833018															
833019															
833020															
833021															
833022															
833023															
833024															
833025															
833026															
833027															
833028															
833029															
833030															
833031															
833032															
833033															
833034															
833035															
833036															
833037															
833038															
833039															
833040															
833041															
833042															
833043															
833044															
833045															
833046															
833047															
833048	0.4	0.4	2.9	0.4	< 0.1	< 0.1	0.002	0.14	0.9	42	0.3	< 0.1	0.426	0.033	0.11
833049															
833050															
833051															
833052															
833053															
833054															
833055															
833056	0.8	0.4	2.8	0.4	0.2	0.6	0.001	0.09	2.6	42	0.4	0.2	0.610	0.036	0.28
833057															
833058															
833059															
833060															
833061															
833062															
833063															
833064															
833065															
833066															
833067															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833068															
833069															
833070															
833071															
833072															
833073															
833074															
833075															
833076															
833077															
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833081															
833082															
833083															
833084															
833085															
833086															
833087															
833088															
833089															
833090															
833091															
833092															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										170		9.41		> 5000						145			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.25		2.40			72		885	10.6		8.7	14.8		4.6			43.9	7.06		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		41.7		118		91.4	176
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2160				0.82		67.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		15.5	0.04	0.59	6.13	2.20	0.04		75	55	390	6.52	4.8	38.6		7.7		0.59	3.82	74.3		3.91	2.8
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		10.3		46.1		27.0	44.7
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8740																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8770																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8360																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	515																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	510																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	502																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		12.9	1.50	5.40	7.99	1.43	6.19		226	1370	1320	7.67	1.9	478	1.9	1.5	0.6	0.18	3.89	45.5	1.24	0.09	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		34.0	0.74	14.5	3.91	0.65	3.14	0.4	59		1180	5.80	1.8	2090		0.9		0.26	3.34	74.7		0.94	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
833018 Orig	< 5																						
833018 Dup	< 5																						
833042 Orig	8																						
833042 Dup	6																						
833052 Orig	6																						
833052 Dup	6																						
833053 Orig	6																						
833053 Dup	5																						
833066 Orig	42																						
833066 Split PREP DUP	38																						
833076 Orig	11																						
833076 Dup	9																						
833090 Orig	< 5																						
833090 Dup	< 5																						
833092 Orig	< 5																						
833092 Split PREP 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	7	3	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	13	14	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
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	0.2	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	0.2	
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 72a (4 Acid) Meas			8.1																				335	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					131				19.3						728	1310	134	355	58.0	37.4	4.8	25.3	433	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1280										195	4.6												> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	140		53.7						8.05															2210
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 904 (4 Acid) Meas	26.0	15.4	107	97.5	32.5	26.4	158		2.09	0.2	3	1.4		224	43.8	87.8						0.9	6040	
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120	
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas	442										65	5.3												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas																								
OREAS 923 (4 Acid) Cert																								
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas	96.3	18.9		85.4	17.3	451	59	5.9	1.40	< 0.1	2	0.3		476	19.0	40.3	5.2	20.9	3.8	3.8	0.6	3.2	280
OREAS 681 (4 Acid) Cert	88.0	17.6		80.0	17.5	478	58.0	6.17	1.38	0.0420	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	0.580	3.40	264
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	114	10.2	156		9.4	71.1	63	3.4	4.34	< 0.1	1	0.7		217	14.8	27.0							54.4
OREAS 70b (4 Acid) Cert	112	10.1	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
833018 Orig																							
833018 Dup																							
833042 Orig																							
833042 Dup																							
833052 Orig																							
833052 Dup																							
833053 Orig																							
833053 Dup																							
833066 Orig																							
833066 Split PREP DUP																							
833076 Orig																							
833076 Dup																							
833090 Orig																							
833090 Dup																							
833092 Orig																							
833092 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.2	0.2	< 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	0.2
Method Blank	< 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	0.3
Method Blank																							
Method Blank																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.72
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	12.5	1.7					22.4		34.0	344	0.347	0.120	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									322						15.7
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.21
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas	0.2		3.1	0.4	0.8	2.5		0.47	10.4	12	13.4	8.2		0.105	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas										47			0.779	0.042	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									99.9						4.34
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas										13			0.394	0.068	0.71
OREAS 923 (4 Acid) Cert										13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas										6			0.175	0.037	4.70
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas		0.3	1.7	0.2	0.4	1.0			12.7	27	6.2	1.4	0.544	0.137	0.10
OREAS 681 (4 Acid) Cert		0.280	1.77	0.270	0.420	1.09			10.2	27.7	6.55	1.44	0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										10			0.191	0.112	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
Oreas 521 (4 Acid) Meas										13			0.334	0.076	1.75
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
OREAS 70b (4 Acid) Meas					0.3	4.1		0.31	13.1	11	5.9	1.7	0.163	0.022	0.29
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
833018 Orig															
833018 Dup															
833042 Orig															
833042 Dup															
833052 Orig															
833052 Dup															
833053 Orig															
833053 Dup															
833066 Orig															
833066 Split PREP DUP															
833076 Orig															
833076 Dup															
833090 Orig															
833090 Dup															
833092 Orig															
833092 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank	< 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	< 0.1	< 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										< 1			< 0.0005	< 0.001	< 0.01



Report No.: A21-20693 Final
Report Date: 07-Nov-21
Date Submitted: 03-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

112 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested, Testing Date. Row 1: 1A2-Tbay-Harte Gold, QOP AA-Au (Au - Fire Assay AA), 2021-11-05 15:10:29

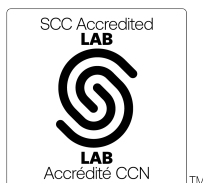
REPORT A21-20693 Final

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Notes:

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

Footnote: No Materials for Samples 833197-833204



LabID: 673

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
833093	< 5
833094	< 5
833095	< 5
833096	< 5
833097	< 5
833098	5
833099	< 5
833100	3610
833101	6
833102	< 5
833103	< 5
833104	< 5
833105	< 5
833106	< 5
833107	< 5
833108	< 5
833109	< 5
833110	5
833111	< 5
833112	< 5
833113	< 5
833114	< 5
833115	< 5
833116	< 5
833117	< 5
833118	< 5
833119	< 5
833120	7130
833121	< 5
833122	10
833123	7
833124	< 5
833125	< 5
833126	< 5
833127	< 5
833128	< 5
833129	< 5
833130	6
833131	< 5
833132	< 5
833133	< 5
833134	5
833135	< 5
833136	< 5
833137	5
833138	< 5
833139	< 5
833140	3580
833141	6
833142	< 5
833143	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
833144	< 5
833145	6
833146	5
833147	< 5
833148	< 5
833149	< 5
833150	< 5
833151	< 5
833152	< 5
833153	< 5
833154	< 5
833155	< 5
833156	9
833157	6
833158	7
833159	206
833160	3660
833161	26
833162	5
833163	6
833164	16
833165	10
833166	6
833167	343
833168	10
833169	8
833170	< 5
833171	6
833172	51
833173	7
833174	11
833175	13
833176	6
833177	6
833178	< 5
833179	22
833180	7060
833181	9
833182	< 5
833183	6
833184	6
833185	5
833186	< 5
833187	18
833188	15
833189	< 5
833190	< 5
833191	12
833192	29
833193	7
833194	8

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
833195	5
833196	20

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 238 (Fire Assay) Meas	3120
OREAS 238 (Fire Assay) Cert	3030
OREAS 228b (Fire Assay) Meas	8620
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8750
OREAS 228b (Fire Assay) Cert	8570
OREAS 228b (Fire Assay) Meas	8710
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	517
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	516
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	506
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	522
Oreas E1336 (Fire Assay) Cert	510
833102 Orig	< 5
833102 Dup	5
833112 Orig	< 5
833112 Dup	< 5
833123 Orig	8
833123 Dup	6
833128 Orig	< 5
833128 Dup	< 5
833138 Orig	< 5
833138 Dup	< 5
833142 Orig	< 5
833142 Split PREP DUP	< 5
833147 Orig	5
833147 Dup	< 5
833167 Orig	343
833177 Orig	6
833177 Dup	6
833196 Orig	20
833196 Split PREP DUP	17
Method Blank	5
Method Blank	< 5
Method Blank	< 5

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



Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

Report No.: A21-20881
Report Date: 22-Dec-21
Date Submitted: 05-Nov-21
Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

62 Rock samples were submitted for analysis.

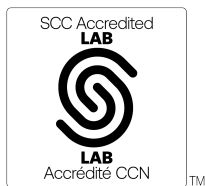
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-11-07 14:45:24

REPORT **A21-20881**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Report No.: A21-20881
Report Date: 22-Dec-21
Date Submitted: 05-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

62 Rock samples were submitted for analysis.

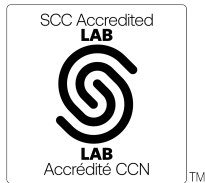
The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-11-29 14:15:58

REPORT A21-20881

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833197	7																						
833198	6																						
833199	< 5																						
833200	3560																						
833201	8																						
833202	5																						
833203	8																						
833204	11																						
833205	6																						
833206	6																						
833207	9																						
833208	9	76.6	> 3.00	0.88	8.36	1.66	2.61	< 0.1	58	17	397	2.90	2.9	15.6	0.9	1.0	0.3	0.10	7.06	9.7	0.98	0.07	0.2
833209	9	24.4	1.61	2.89	7.45	0.34	9.05	< 0.1	228	149	1690	8.96	0.7	92.4	2.7	0.5	0.9	0.10	0.44	48.1	1.00	0.28	< 0.1
833210	< 5	30.0	2.81	0.16	7.50	2.54	1.07	< 0.1	13	9	169	1.38	5.3	2.7	0.7	0.9	0.2	0.15	1.38	2.0	0.63	0.06	0.1
833211	15																						
833212	13																						
833213	< 5																						
833214	39																						
833215	17																						
833216	< 5																						
833217	8																						
833218	10																						
833219	15																						
833220	3690																						
833221	13																						
833222	12																						
833223	23																						
833224	13																						
833225	< 5																						
833226	7																						
833227	5																						
833228	< 5																						
833229	< 5																						
833230	< 5																						
833231	< 5																						
833232	< 5																						
833233	5																						
833234	< 5																						
833235	< 5																						
833236	< 5																						
833237	< 5																						
833238	< 5																						
833239	13																						
833240	7120																						
833241	5																						
833242	< 5																						
833243	< 5	45.4	2.98	0.37	7.56	1.38	1.89	< 0.1	30	12	198	1.75	2.5	5.5	0.3	0.7	0.1	0.17	5.03	4.3	0.53	0.28	< 0.1
833244	15	29.4	1.03	2.08	5.97	0.33	7.09	1.6	137	89	1230	7.68	0.6	61.8	2.3	0.4	0.7	0.26	1.05	33.9	0.74	2.26	0.5
833245	22	23.7	2.21	2.60	7.16	0.42	7.93	1.0	258	105	1560	8.87	1.1	99.2	2.6	0.4	0.9	0.29	0.67	43.9	0.90	0.50	0.5
833246	17																						
833247	18																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833248	12																						
833249	68																						
833250	< 5																						
833251	16																						
833252	< 5																						
833253	5																						
833254	48																						
833255	12																						
833256	19																						
833257	9																						
833258	8																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833197																							
833198																							
833199																							
833200																							
833201																							
833202																							
833203																							
833204																							
833205																							
833206																							
833207																							
833208	61.3	21.1	< 0.1	73.6	7.8	507	107	2.1	0.63	< 0.1	< 1	< 0.1	< 0.1	604	28.2	55.9	6.5	25.1	4.0	2.4	0.3	1.4	26.6
833209	107	18.8	< 0.1	8.2	24.4	239	16	0.3	0.29	< 0.1	< 1	< 0.1	< 0.1	122	6.6	15.0	2.2	10.1	3.6	3.9	0.7	4.4	94.0
833210	51.5	15.5	< 0.1	104	6.8	125	198	6.7	0.31	< 0.1	2	< 0.1	< 0.1	833	35.9	71.1	6.7	21.0	2.8	2.2	0.3	1.3	3.9
833211																							
833212																							
833213																							
833214																							
833215																							
833216																							
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833238																							
833239																							
833240																							
833241																							
833242																							
833243	29.3	20.5	< 0.1	48.1	3.1	489	92	1.6	0.62	< 0.1	< 1	< 0.1	< 0.1	392	12.3	24.3	2.7	11.3	1.7	1.2	0.2	0.6	15.7
833244	422	17.5	< 0.1	8.4	16.3	936	16	0.7	0.55	< 0.1	< 1	< 0.1	< 0.1	106	4.3	9.8	1.6	7.2	1.9	2.5	0.5	3.2	87.2
833245	349	19.8	< 0.1	4.0	20.6	541	28	1.7	0.94	< 0.1	< 1	< 0.1	0.1	91	6.1	13.5	2.0	8.9	2.8	3.0	0.6	3.8	78.6
833246																							
833247																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833248																							
833249																							
833250																							
833251																							
833252																							
833253																							
833254																							
833255																							
833256																							
833257																							
833258																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833197															
833198															
833199															
833200															
833201															
833202															
833203															
833204															
833205															
833206															
833207															
833208	0.1	0.1	0.7	0.1	0.1	0.3	0.002	0.47	10.7	6	4.3	1.6	0.235	0.061	0.10
833209	0.4	0.4	2.6	0.4	< 0.1	< 0.1	0.002	0.07	2.3		0.8	0.2			
833210	< 0.1	< 0.1	0.6	0.1	0.4	< 0.1	0.002	0.73	19.1	2	12.8	0.9	0.123	0.019	< 0.01
833211															
833212															
833213															
833214															
833215															
833216															
833217															
833218															
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833236															
833237															
833238															
833239															
833240															
833241															
833242															
833243	< 0.1	< 0.1	0.3	< 0.1	0.1	0.7	0.001	0.33	5.0	3	1.9	0.7	0.170	0.035	0.19
833244	0.4	0.3	2.0	0.3	< 0.1	0.2	0.002	0.07	7.4	30	0.4	0.2	0.354	0.031	0.62
833245	0.5	0.4	2.4	0.4	< 0.1	0.4	0.002	0.05	4.1	34	0.6	0.2	0.580	0.036	0.46
833246															
833247															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833248															
833249															
833250															
833251															
833252															
833253															
833254															
833255															
833256															
833257															
833258															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Ga	As	Rb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	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	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.1	0.1	0.2
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 72a (4 Acid) Meas											> 5000						161						4.4
Oreas 72a (4 Acid) Cert											6930.00						157						14.7
Oreas 72a (4 Acid) Meas											> 5000						169						4.7
Oreas 72a (4 Acid) Cert											6930.00						157						14.7
Oreas 72a (4 Acid) Meas											> 5000						152						4.6
Oreas 72a (4 Acid) Cert											6930.00						157						14.7
OREAS 101b (4 Acid) Meas				1.25		2.35			72		8.7	14.9		4.9			43.8	6.96					
OREAS 101b (4 Acid) Cert				1.23		2.36			77		8.2	15		5.2			45	8.1					
OREAS 98 (4 Acid) Meas															45.1		123		96.7	179			
OREAS 98 (4 Acid) Cert															45.1		121		97.2	158			
OREAS 13b (4-Acid) Meas											2360				1.01		82.9						57.3
OREAS 13b (4-Acid) Cert											2247.000				0.86		75						57
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas		16.5	0.04	0.61	6.47	3.65	0.05		80	5.0	41.4		9.6		0.69	4.16	88.0		4.04	2.2	14.7	109	142
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30	16.7	98.0	130
OREAS 904 (4 Acid) Meas		15.6	0.04	0.61	6.50	3.40	0.04		76	5.3	41.2		8.1		0.66	4.03	86.2		4.22	2.8	17.0	96.6	118
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30	16.7	98.0	130
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas															11.6		48.4		27.6	41.0			
OREAS 96 (4 Acid) Cert															11.5		49.9		26.3	40.7			
OREAS 96 (4 Acid) Meas															12.0		54.1		30.3	45.1			
OREAS 96 (4 Acid) Cert															11.5		49.9		26.3	40.7			
OREAS 96 (4 Acid) Meas															11.1		49.7		27.3	43.8			
OREAS 96 (4 Acid) Cert															11.5		49.9		26.3	40.7			
OREAS 96 (4 Acid) Meas															11.0		47.9		26.4	43.5			
OREAS 96 (4 Acid) Cert															11.5		49.9		26.3	40.7			
OREAS 96 (4 Acid) Meas																							

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Ga	As	Rb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	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	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.1	0.1	0.2
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 923 (4 Acid) Meas		33.2	0.32	1.78	7.95	2.27	0.44	0.5	89	3.8	36.8	2.9	2.8	1.0	1.70	7.16	22.0	1.26	25.9	5.4	13.9	7.1	156
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54	20.3	7.61	166
OREAS 923 (4 Acid) Meas		29.4	0.33	1.80	7.29	2.47	0.46	0.4	87	4.0	40.9	3.0	2.4	1.0	1.74	6.88	22.7	1.35	26.9	6.7	18.5	6.5	156
OREAS 923 (4 Acid) Cert		31.4	0.324	1.69	7.29	2.51	0.473	0.420	91.0	3.42	35.8	2.86	2.42	0.960	1.60	6.70	23.1	1.37	21.4	6.54	20.3	7.61	166
OREAS 621 (4 Acid) Meas		15.3	1.19	0.43	5.90	2.02	1.94	288	36	4.0	29.4		1.6		67.7	3.20	31.1		3.86	6.5	10.9	86.8	78.6
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64	24.6	77.0	84.0
OREAS 621 (4 Acid) Meas		14.4	1.35	0.55	6.21	2.29	1.95	305	36	4.3	28.6		1.8		63.8	3.55	29.1		4.27	5.1	26.6	77.0	87.3
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64	24.6	77.0	84.0
OREAS 621 (4 Acid) Meas		15.4	1.36	0.50	6.37	2.23	1.97	301	36	4.3	28.8		1.8		65.1	3.51	29.9		4.01	4.3	23.6	79.4	84.2
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64	24.6	77.0	84.0
OREAS 621 (4 Acid) Meas		14.6	1.29	0.39	6.33	2.31	1.86	254	35	4.8	29.6		1.8		61.2	3.47	32.0		4.15	5.3	22.8	72.6	78.7
OREAS 621 (4 Acid) Cert		14.2	1.31	0.507	6.40	2.20	1.97	284	31.8	4.41	26.2		1.69		69.0	3.28	29.3		3.93	5.64	24.6	77.0	84.0
Oreas 77b (4 Acid) Meas		18.6	0.43	2.75	1.92	0.37	3.26	1.4	33	1.2	> 5000		0.4		1.62	2.34	> 500		3.70		5.1	1620	21.0
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	1.15	113000		0.470		1.62	2.32	1550		3.44		4.61	2050	19.1
Oreas 77b (4 Acid) Meas		19.4	0.40	2.50	1.73	0.33	2.87	1.2	25	1.2	> 5000		0.4		1.59	2.29	> 500		3.47		4.6	1350	18.4
Oreas 77b (4 Acid) Cert		18.8	0.434	2.59	1.94	0.361	3.06	1.20	33.6	1.15	113000		0.470		1.62	2.32	1550		3.44		4.61	2050	19.1
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8740																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8750																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	521																						
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	511																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas		12.8	1.48	5.33	8.09	1.40	6.14		233	1.8	520	1.8	1.4	0.7	0.18	3.82	50.0	1.30	0.10		15.3		83.5
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980		17.6		80.0

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Ga	As	Rb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	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	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.1	0.1	0.2
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 681 (4 Acid) Meas		12.7	1.54	5.66	8.12	1.43	6.26		234	1.9	477	1.9	1.2	0.6	0.18	3.78	51.4	1.33	0.10		14.0		76.8
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980		17.6		80.0
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas		> 400	0.96	0.59	5.18	1.69	1.11		43	1.2	22.9	2.6	36.1			> 100	6.6	10.1	13.5		8.7	16.5	1260
OREAS 147 (4 Acid) Cert		2260	0.948	0.535	4.90	1.60	1.09		60.0	2.99	21.2	3.00	31.2			238	6.90	10.4	12.5		22.6	36.0	1160
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas		17.6	0.96	1.27	4.96	3.42	4.23		224	3.5	79.2	2.2	0.9	0.8	0.95	0.75	387	1.70	6.51	2.0	18.8	331	106
Oreas 521 (4 Acid) Cert		16.4	0.98	1.13	4.77	3.16	3.86		209	3.2	73.0	2.1	0.9	0.7	0.89	0.72	386	1.64	5.85	2.4	17.4	336	98.0
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		35.3	0.76	14.5	4.08	0.67	3.19	0.4	52	1.9	2270		1.1		0.20	3.59	83.4		0.96		8.7	150	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67	1.9	2180		1.0		0.17	3.44	78.0		0.84		10	148	
OREAS 70b (4 Acid) Meas		36.2	0.78	14.0	4.08	0.63	2.97	0.4	41	1.9	2040		1.2		0.21	3.89	84.3		0.92		7.8	161	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67	1.9	2180		1.0		0.17	3.44	78.0		0.84		10	148	
OREAS 70b (4 Acid) Meas		30.9	0.75	12.8	3.64	0.58	3.03	0.3	54	1.7	2190		0.9		0.19	3.25	77.8		0.86		7.3	148	
OREAS 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67	1.9	2180		1		0.17	3.44	78.0		0.84		10	148	
833198 Orig		6																					
833198 Dup		6																					
833209 Orig		25.0	1.65	2.96	7.53	0.35	9.24	0.1	231	0.7	97.0	2.8	0.6	0.9	0.11	0.47	49.3	1.03	0.28	< 0.1	19.4	< 0.1	8.3
833209 Dup		23.8	1.57	2.81	7.37	0.33	8.86	< 0.1	225	0.7	87.7	2.7	0.5	1.0	0.09	0.40	46.9	0.98	0.27	< 0.1	18.3	< 0.1	8.0
833212 Orig		9																					
833212 Dup		17																					
833221 Orig		12																					
833221 Dup		13																					
833233 Orig		5																					
833233 Dup		5																					
833246 Orig		17																					
833246 Split PREP DUP		16																					

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se	Ga	As	Rb
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	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	0.1	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1	0.1	0.1	0.2
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
833247 Orig	12																						
833247 Dup	24																						
833255 Orig	12																						
833255 Dup	11																						
833258 Orig	8																						
833258 Split PREP DUP	8																						
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	2	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	0.3	< 0.1	< 0.2
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	0.3	< 0.1	< 0.2
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.1	0.3	< 0.1	< 0.2
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	0.4	< 0.1	< 0.2
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	< 0.1	0.9	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1	0.3	1.1	< 0.2
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.2	0.3	< 0.1	< 0.2
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	4	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.1	0.4	0.9	< 0.2
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.4	0.5	< 0.1	< 0.2

Analyte Symbol	Sr	Zr	Nb	Mo	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Dy	Cu	Ge	Tm	Yb	Lu	W	Re	Tl
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	0.2	1	0.1	0.05	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.001	0.05
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 72a (4 Acid) Meas																327							
Oreas 72a (4 Acid) Cert																316							
Oreas 72a (4 Acid) Meas																337							
Oreas 72a (4 Acid) Cert																316							
Oreas 72a (4 Acid) Meas																302							
Oreas 72a (4 Acid) Cert																316							
OREAS 101b (4 Acid) Meas				18.7					732	1290	118	371	43.6	37.3	23.8	389		1.9	12.6	1.8			
OREAS 101b (4 Acid) Cert				20.1					754	1325	127	388	48	40	27	412		2.08	13.9	1.96			
OREAS 98 (4 Acid) Meas					> 200	6.9										> 10000							
OREAS 98 (4 Acid) Cert					206	20.1										14800							
OREAS 13b (4-Acid) Meas				9.57												2400							
OREAS 13b (4-Acid) Cert				9.0												2327.0							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas	27.5	187		2.20	3	1.4		215	46.7	90.7						5800	0.1		3.2	0.5	2.6		0.55
OREAS 904 (4 Acid) Cert	27.2	171		2.12	2.83	1.48		194	43.2	86.0						6120	0.180		3.14	0.470	2.12		0.520
OREAS 904 (4 Acid) Meas	31.2	201		2.10	3	1.2		204	46.5	85.5						6050	0.1		3.1	0.5	2.6		0.55
OREAS 904 (4 Acid) Cert	27.2	171		2.12	2.83	1.48		194	43.2	86.0						6120	0.180		3.14	0.470	2.12		0.520
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas					62	4.9										> 10000							
OREAS 96 (4 Acid) Cert					65.6	5.09										39300							
OREAS 96 (4 Acid) Meas					65	4.9										> 10000							
OREAS 96 (4 Acid) Cert					65.6	5.09										39300							
OREAS 96 (4 Acid) Meas					66	4.1										> 10000							
OREAS 96 (4 Acid) Cert					65.6	5.09										39300							
OREAS 96 (4 Acid) Meas					65	4.0										> 10000							
OREAS 96 (4 Acid) Cert					65.6	5.09										39300							
OREAS 96 (4 Acid) Meas																							

Analyte Symbol	Sr	Zr	Nb	Mo	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Dy	Cu	Ge	Tm	Yb	Lu	W	Re	Tl
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	0.2	1	0.1	0.05	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.001	0.05
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 923 (4 Acid) Meas	47.1	140	13.9	1.02	14	1.3		433	45.5	84.1	9.8	37.5	6.2	5.7	5.0	3930		0.4	2.7	0.4	5.6		0.91
OREAS 923 (4 Acid) Cert	43.0	116	14.1	0.930	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	5.05	4230		0.410	2.57	0.390	4.85		0.860
OREAS 923 (4 Acid) Meas	46.5	142	12.1	0.95	14	1.2		417	45.7	79.8	10.0	36.0	6.6	5.6	4.9	4210		0.4	2.6	0.4	4.5		0.90
OREAS 923 (4 Acid) Cert	43.0	116	14.1	0.930	13.3	1.29		434	42.2	83.0	9.58	35.4	6.64	5.73	5.05	4230		0.410	2.57	0.390	4.85		0.860
OREAS 621 (4 Acid) Meas	67.9	148	8.5	14.7	6	39.6			20.6	44.7						3750			0.9	0.2	2.2		1.92
OREAS 621 (4 Acid) Cert	91.0	168	8.61	13.6	5.25	139			21.6	46.6						3630			0.990	0.140	2.35		1.96
OREAS 621 (4 Acid) Meas	67.9	161	10.1	13.7	5	21.2			18.7	45.9						3420			1.0	0.1	2.2		2.15
OREAS 621 (4 Acid) Cert	91.0	168	8.61	13.6	5.25	139			21.6	46.6						3630			0.990	0.140	2.35		1.96
OREAS 621 (4 Acid) Meas	73.6	164	9.4	13.4	6	21.5			21.0	47.7						3470			0.9	0.1	2.2		2.18
OREAS 621 (4 Acid) Cert	91.0	168	8.61	13.6	5.25	139			21.6	46.6						3630			0.990	0.140	2.35		1.96
OREAS 621 (4 Acid) Meas	84.7	170	8.4	14.0	6	44.1			22.8	48.7						3850			1.0	0.2	2.2		2.06
OREAS 621 (4 Acid) Cert	91.0	168	8.61	13.6	5.25	139			21.6	46.6						3630			0.990	0.140	2.35		1.96
Oreas 77b (4 Acid) Meas	34.2	40	3.3		1	9.6	1.2	16	16.5	29.6						3360					3.0	0.020	1.44
Oreas 77b (4 Acid) Cert	34.4	37.9	3.26		1.59	9.100	1.35	118	15.8	27.7						3430					3.07	0.0220	1.37
Oreas 77b (4 Acid) Meas	37.2	43	2.6		2	7.8	0.9	24	16.9	27.5						3130					2.7	0.017	1.39
Oreas 77b (4 Acid) Cert	34.4	37.9	3.26		1.59	9.100	1.35	118	15.8	27.7						3430					3.07	0.0220	1.37
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas	471	66	4.9	1.38	2	0.2		445	18.9	40.1	5.1	21.2	4.9	3.8	3.4	254		0.3	1.7	0.2	0.7		
OREAS 681 (4 Acid) Cert	478	58.0	6.17	1.38	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	3.40	264		0.280	1.77	0.270	1.09		

Analyte Symbol	Sr	Zr	Nb	Mo	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Dy	Cu	Ge	Tm	Yb	Lu	W	Re	Tl
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	0.2	1	0.1	0.05	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.001	0.05
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 681 (4 Acid) Meas	457	74	4.1	1.16	1	< 0.1		410	20.2	39.5	5.4	20.3	3.8	3.7	3.3	252		0.2	1.6	0.3	0.6		
OREAS 681 (4 Acid) Cert	478	58.0	6.17	1.38	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	3.40	264		0.280	1.77	0.270	1.09		
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas	282	48	51.3	3.12		1.7		1890	662	1130	119		52.0	27.1	8.8	305	< 0.1	0.3	1.6	0.2			12.0
OREAS 147 (4 Acid) Cert	299	105	1110	7.99		10.6		1940	663	1110	121		48.7	24.2	9.20	298	0.750	0.270	1.46	0.200			10.8
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas	87.2	130	6.5	144	7	3.5	0.3		66.9	84.1	7.8	25.4	4.0	4.4	3.9	5980		0.3	2.2	0.3	86.9	0.066	0.31
Oreas 521 (4 Acid) Cert	158	123	5.6	138	7	5.7	0.8		139	123	8.4	25.4	4.2	4.0	3.5	6070		0.3	2.1	0.3	92.0	0.064	0.27
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas	79.6	72	3.5	3.50	1	0.5		225	16.6	29.5						55.1					4.2		0.34
OREAS 70b (4 Acid) Cert	74.0	66	3.7	3.30	1	0.6		202	15.3	28.2						52.0					4.9		0.33
OREAS 70b (4 Acid) Meas	82.7	76	3.6	3.37	2	0.5		226	18.0	32.3						55.8					4.8		0.35
OREAS 70b (4 Acid) Cert	74.0	66	3.7	3.30	1	0.6		202	15.3	28.2						52.0					4.9		0.33
OREAS 70b (4 Acid) Meas	70.3	59	3.7	3.06	1	0.5		188	13.8	25.9						46.1					3.8		0.32
OREAS 70b (4 Acid) Cert	74.0	66	3.7	3.30	1	0.6		202	15.3	28.2						52.0					4.9		0.33
833198 Orig																							
833198 Dup																							
833209 Orig	240	17	0.3	0.32	< 1	< 0.1	< 0.1	123	6.8	15.1	2.3	10.3	3.8	4.1	4.3	97.8	0.5	0.4	2.7	0.4	< 0.1	0.002	0.07
833209 Dup	238	16	0.3	0.25	< 1	< 0.1	< 0.1	121	6.5	14.9	2.2	10.0	3.4	3.8	4.4	90.3	0.4	0.4	2.6	0.4	2.6	0.002	0.06
833212 Orig																							
833212 Dup																							
833221 Orig																							
833221 Dup																							
833233 Orig																							
833233 Dup																							
833246 Orig																							
833246 Split PREP DUP																							

Analyte Symbol	Sr	Zr	Nb	Mo	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Dy	Cu	Ge	Tm	Yb	Lu	W	Re	Tl
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	0.2	1	0.1	0.05	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.001	0.05
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
833247 Orig																							
833247 Dup																							
833255 Orig																							
833255 Dup																							
833258 Orig																							
833258 Split PREP DUP																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.2	< 1	< 0.1	0.12	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05
Method Blank	< 0.2	< 1	< 0.1	0.05	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05
Method Blank																							
Method Blank	< 0.2	< 1	< 0.1	0.06	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05
Method Blank	< 0.2	< 1	< 0.1	< 0.05	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05
Method Blank	< 0.2	< 1	< 0.1	0.11	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05
Method Blank																							
Method Blank	< 0.2	< 1	< 0.1	0.10	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.6	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.001	< 0.05
Method Blank																							
Method Blank	0.2	< 1	< 0.1	0.07	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.002	< 0.05
Method Blank																							
Method Blank	< 0.2	< 1	< 0.1	< 0.05	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05

Analyte Symbol	Sc	Th	U	Ti	P	S	Cr	Mn	Fe	Zn	Y	In	Tb	Ta	Pb
Unit Symbol	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.1	0.0005	0.001	0.01	1	1	0.01	0.2	0.1	0.1	0.1	0.1	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Oreas 72a (4 Acid) Meas						1.81	160		10.2						
Oreas 72a (4 Acid) Cert						1.74	228		9.63						
Oreas 72a (4 Acid) Meas						1.71	179		10.1						
Oreas 72a (4 Acid) Cert						1.74	228		9.63						
Oreas 72a (4 Acid) Meas							172		9.09						
Oreas 72a (4 Acid) Cert							228		9.63						
OREAS 101b (4 Acid) Meas		37.7	398	0.370	0.118			921	10.1		124		4.1		21.9
OREAS 101b (4 Acid) Cert		36.4	387	0.35				927	10.7		133		5.4		23
OREAS 98 (4 Acid) Meas						16.1				1280					339
OREAS 98 (4 Acid) Cert						15.5				1360					345
OREAS 13b (4-Acid) Meas						1.23	> 5000			147					
OREAS 13b (4-Acid) Cert						1.2	8650.00			133					
OREAS 13b (4-Acid) Meas						1.21									
OREAS 13b (4-Acid) Cert						1.2									
OREAS 904 (4 Acid) Meas	12	15.7	8.6		0.100	0.01	63	412	7.04	29.4	33.2	0.2	0.9	0.5	11.4
OREAS 904 (4 Acid) Cert	11.2	14.3	8.43		0.0980	0.0630	54.0	410	6.68	26.3	31.5	0.220	1.00	0.540	10.6
OREAS 904 (4 Acid) Meas	11	14.8	9.2		0.103	0.06	65	414	7.17	30.4	31.8	0.2	1.0	0.6	11.8
OREAS 904 (4 Acid) Cert	11.2	14.3	8.43		0.0980	0.0630	54.0	410	6.68	26.3	31.5	0.220	1.00	0.540	10.6
OREAS 45d (4-Acid) Meas	50			0.407	0.034	0.04									
OREAS 45d (4-Acid) Cert	49.30			0.773	0.042	0.049									
OREAS 96 (4 Acid) Meas						4.77				472					101
OREAS 96 (4 Acid) Cert						4.19				457					101
OREAS 96 (4 Acid) Meas						4.67				487					107
OREAS 96 (4 Acid) Cert						4.19				457					101
OREAS 96 (4 Acid) Meas						4.15				440					98.7
OREAS 96 (4 Acid) Cert						4.19				457					101
OREAS 96 (4 Acid) Meas						4.30				393					95.7
OREAS 96 (4 Acid) Cert						4.19				457					101
OREAS 96 (4 Acid) Meas						4.33									

Analyte Symbol	Sc	Th	U	Ti	P	S	Cr	Mn	Fe	Zn	Y	In	Tb	Ta	Pb
Unit Symbol	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.1	0.0005	0.001	0.01	1	1	0.01	0.2	0.1	0.1	0.1	0.1	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 96 (4 Acid) Cert						4.19									
OREAS 923 (4 Acid) Meas	13	17.7	3.2	0.411	0.071	0.74	66	940	6.45	348	24.2	0.5	0.8	1.1	87.4
OREAS 923 (4 Acid) Cert	13.1	16.5	3.06	0.405	0.0630	0.691	71.0	950	6.43	345	26.4	0.520	0.850	1.11	83.0
OREAS 923 (4 Acid) Meas	13	16.9	3.4	0.426	0.064	0.71	70	922	6.95	353	26.0	0.5	0.9	1.0	87.5
OREAS 923 (4 Acid) Cert	13.1	16.5	3.06	0.405	0.0630	0.691	71.0	950	6.43	345	26.4	0.520	0.850	1.11	83.0
OREAS 621 (4 Acid) Meas	6	5.4	2.9	0.191	0.036	4.54	32	552	3.66	> 10000	10.8	1.9	0.5		> 5000
OREAS 621 (4 Acid) Cert	6.24	7.48	2.83	0.149	0.0359	4.48	37.1	532	3.70	52200	11.1	1.83	0.460		13600
OREAS 621 (4 Acid) Meas	6	5.4	2.8	0.185	0.038	4.81	31	512	3.84	> 10000	11.1	1.8	0.5		> 5000
OREAS 621 (4 Acid) Cert	6.24	7.48	2.83	0.149	0.0359	4.48	37.1	532	3.70	52200	11.1	1.83	0.460		13600
OREAS 621 (4 Acid) Meas	6	5.5	2.8	0.190	0.035	4.60	36	489	3.88	> 10000	11.1	1.9	0.4		> 5000
OREAS 621 (4 Acid) Cert	6.24	7.48	2.83	0.149	0.0359	4.48	37.1	532	3.70	52200	11.1	1.83	0.460		13600
OREAS 621 (4 Acid) Meas	6	6.5	3.1	0.190	0.037	4.68	29	505	4.05	> 10000	12.2	1.6	0.5		> 5000
OREAS 621 (4 Acid) Cert	6.24	7.48	2.83	0.149	0.0359	4.48	37.1	532	3.70	52200	11.1	1.83	0.460		13600
Oreas 77b (4 Acid) Meas	4	6.8	1.8	0.0726			222	695	31.2	226	6.8	0.1		0.3	60.9
Oreas 77b (4 Acid) Cert	3.51	6.61	1.71	0.0640			280	640	29.9	205	6.55	0.112		0.280	61.0
Oreas 77b (4 Acid) Meas	4	6.2	1.8	0.0617			232	625	29.2	199	6.3	0.1		0.3	58.0
Oreas 77b (4 Acid) Cert	3.51	6.61	1.71	0.0640			280	640	29.9	205	6.55	0.112		0.280	61.0
Oreas 77b (4 Acid) Meas	3			0.0608											
Oreas 77b (4 Acid) Cert	3.51			0.0640											
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas	28	6.5	1.3	0.578	0.144	< 0.01	1290	1310	7.50	85.9	16.2	< 0.1	0.5	0.2	10.4
OREAS 681 (4 Acid) Cert	27.7	6.55	1.44	0.588	0.141	0.109	1640	1310	7.47	88.0	17.5	0.0420	0.580	0.420	10.2

Analyte Symbol	Sc	Th	U	Ti	P	S	Cr	Mn	Fe	Zn	Y	In	Tb	Ta	Pb
Unit Symbol	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.1	0.0005	0.001	0.01	1	1	0.01	0.2	0.1	0.1	0.1	0.1	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 681 (4 Acid) Meas	27	6.5	1.5	0.570	0.138	0.11	1380	1260	7.59	79.7	16.5	< 0.1	0.6	0.3	10.0
OREAS 681 (4 Acid) Cert	27.7	6.55	1.44	0.588	0.141	0.109	1640	1310	7.47	88.0	17.5	0.0420	0.580	0.420	10.2
OREAS 681 (4 Acid) Meas	26			0.582	0.138	0.10									
OREAS 681 (4 Acid) Cert	27.7			0.588	0.141	0.109									
OREAS 681 (4 Acid) Meas	26			0.559	0.136	0.10									
OREAS 681 (4 Acid) Cert	27.7			0.588	0.141	0.109									
OREAS 147 (4 Acid) Meas	11	91.8	16.5	0.215	0.110	< 0.01	52	379	3.41	133	25.6	3.1	2.1	0.8	31.6
OREAS 147 (4 Acid) Cert	10.7	93.0	15.8	0.470	0.155	0.0300	57.0	390	3.23	138	26.3	2.61	2.35	17.8	27.8
OREAS 147 (4 Acid) Meas	11			0.217	0.104	0.02									
OREAS 147 (4 Acid) Cert	10.7			0.470	0.155	0.0300									
OREAS 147 (4 Acid) Meas	11			0.294	0.089	0.02									
OREAS 147 (4 Acid) Cert	10.7			0.470	0.155	0.0300									
Oreas 521 (4 Acid) Meas	15	5.6	31.2	0.466	0.091	1.79	40	3390	21.7	27.2	18.9	0.2	0.6	0.5	7.7
Oreas 521 (4 Acid) Cert	14	8.3	31.0	0.393	0.081	1.80	31	3210	20.7	24.4	19.9	0.2	0.6	0.5	9.3
Oreas 521 (4 Acid) Meas	14			0.418	0.081	1.74									
Oreas 521 (4 Acid) Cert	14			0.393	0.081	1.80									
OREAS 70b (4 Acid) Meas	13	7.2	1.9	0.198	0.025	0.20		1160	6.01	119	9.7	< 0.1		0.3	15.3
OREAS 70b (4 Acid) Cert	12	6.9	1.7	0.181	0.022	0.31		1150	5.52	112	9.8	0.05		0.3	13.7
OREAS 70b (4 Acid) Meas	12	6.9	1.8	0.180	0.024	0.29		1240	6.25	134	9.7	< 0.1		0.3	14.7
OREAS 70b (4 Acid) Cert	12	6.9	1.7	0.181	0.022	0.31		1150	5.52	112	9.8	0.05		0.3	13.7
OREAS 70b (4 Acid) Meas		6.3	1.7					1120	5.24	107	8.5	< 0.1		0.2	12.4
OREAS 70b (4 Acid) Cert		6.9	1.7					1150	5.52	112	9.8	0.05		0.3	13.7
833198 Orig															
833198 Dup															
833209 Orig	37	0.8	0.2	0.654	0.042	0.14	136	1720	9.07	110	24.8	< 0.1	0.7	< 0.1	2.3
833209 Dup	40	0.8	0.2	0.223	0.034	0.14	163	1660	8.85	104	24.0	< 0.1	0.7	< 0.1	2.2
833212 Orig															
833212 Dup															
833221 Orig															
833221 Dup															
833233 Orig															
833233 Dup															
833246 Orig															
833246 Split PREP DUP															

Analyte Symbol	Sc	Th	U	Ti	P	S	Cr	Mn	Fe	Zn	Y	In	Tb	Ta	Pb
Unit Symbol	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.1	0.0005	0.001	0.01	1	1	0.01	0.2	0.1	0.1	0.1	0.1	0.5
Method Code	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
833247 Orig															
833247 Dup															
833255 Orig															
833255 Dup															
833258 Orig															
833258 Split PREP DUP															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	6	21	< 0.01	1.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	7	21	< 0.01	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1			< 0.0005	< 0.001	< 0.01									
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	4	13	< 0.01	1.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	6	13	< 0.01	0.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	4	25	< 0.01	0.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1			< 0.0005	< 0.001	< 0.01									
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01	3	9	< 0.01	1.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1			< 0.0005	< 0.001	< 0.01									
Method Blank	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	0.11	6	20	< 0.01	1.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5
Method Blank	< 1			< 0.0005	< 0.001	< 0.01									
Method Blank		< 0.1	< 0.1				1	10	< 0.01	0.4	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5



Report No.: A21-20975
Report Date: 19-Jan-22
Date Submitted: 08-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

36 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 1A2-Tbay-Harte Gold, QOP AA-Au (Au - Fire Assay AA), 2021-11-09 12:22:06

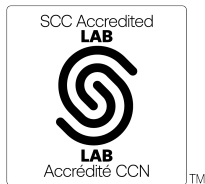
REPORT A21-20975

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
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CERTIFIED BY:

[Handwritten signature]

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Report No.: A21-20975
Report Date: 19-Jan-22
Date Submitted: 08-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

36 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-11-15 09:31:54

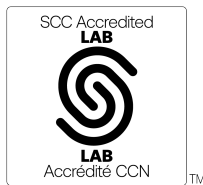
REPORT A21-20975

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
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CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833259	6																						
833260	5540																						
833261	< 5																						
833262	< 5																						
833263	6																						
833264	6																						
833265	8																						
833266	20																						
833267	18																						
833268	7																						
833269	7																						
833270	< 5																						
833271	8																						
833272	7																						
833273	< 5																						
833274	< 5																						
833275	< 5																						
833276	< 5																						
833277	< 5																						
833278	< 5																						
833279	< 5																						
833280	3660																						
833281	< 5																						
833282	< 5																						
833283	< 5																						
833284	< 5																						
833285	< 5																						
833286	< 5																						
833287	< 5																						
833288	< 5																						
833289	< 5																						
833290	< 5																						
833291	< 5																						
833292	< 5																						
833293	< 5																						
833294	< 5	61.0	2.96	0.45	7.60	2.62	1.83	0.1	26	10	229	1.81	5.1	3.7	0.6	1.5	0.2	0.09	2.25	4.3	0.59	0.03	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833259																							
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833290																							
833291																							
833292																							
833293																							
833294	63.3	20.0	0.3	106	5.9	149	185	2.3	0.63	< 0.1	1	< 0.1	< 0.1	682	29.4	64.0	5.8	18.5	3.1	2.1	0.3	1.2	18.9

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833259															
833260															
833261															
833262															
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833284															
833285															
833286															
833287															
833288															
833289															
833290															
833291															
833292															
833293															
833294	0.2	< 0.1	0.7	0.1	< 0.1	< 0.1	< 0.001	0.57	12.4	3	8.5	2.3	0.232	0.050	< 0.01

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										170		9.41		> 5000						145			
OREAS 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.25		2.40			72		885	10.6		8.7	14.8		4.6			43.9	7.06		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		41.7		118		91.4	176
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2160				0.82		67.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		15.5	0.04	0.59	6.13	2.20	0.04		75	55	390	6.52	4.8	38.6		7.7		0.59	3.82	74.3		3.91	2.8
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86		0.551	3.79	83.0		4.05	3.30
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 96 (4 Acid) Meas																		10.3		46.1		27.0	44.7
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8380																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS E1336 (Fire Assay) Meas	502																						
OREAS E1336 (Fire Assay) Cert	510.000																						
OREAS 681 (4 Acid) Meas		12.9	1.50	5.40	7.99	1.43	6.19		226	1370	1320	7.67	1.9	478	1.9	1.5	0.6	0.18	3.89	45.5	1.24	0.09	
OREAS 681 (4 Acid) Cert		13.0	1.61	5.19	7.91	1.35	5.98		253	1640	1310	7.47	1.70	503	1.97	1.41	0.690	0.118	4.02	51.0	1.37	0.0980	
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 521 (4 Acid) Meas																							
OREAS 521 (4 Acid) Cert																							
OREAS 70b (4 Acid) Meas		34.0	0.74	14.5	3.91	0.65	3.14	0.4	59		1180	5.80	1.8	2090		0.9		0.26	3.34	74.7		0.94	

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 70b (4 Acid) Cert		34.4	0.77	13.4	3.87	0.62	3.05	0.4	67		1150	5.52	1.9	2180		1		0.17	3.44	78.0		0.84	
833261 Orig	6																						
833261 Dup	< 5																						
833274 Orig	< 5																						
833274 Dup	< 5																						
833283 Orig	< 5																						
833283 Dup	< 5																						
833294 Orig	< 5	61.0	2.96	0.45	7.60	2.62	1.83	0.1	26	10	229	1.81	5.1	3.7	0.6	1.5	0.2	0.09	2.25	4.3	0.59	0.03	< 0.1
833294 Split PREP DUP	< 5	62.1	3.00	0.47	8.02	2.68	1.82	0.1	25	16	238	1.86	5.2	4.4	0.6	1.4	0.2	0.06	2.41	4.5	0.66	0.03	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	7	3	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	3	13	14	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	0.3
Method Blank																							
Method Blank																							
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu	
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	0.2	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	0.2	
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 72a (4 Acid) Meas			8.1																				335	
Oreas 72a (4 Acid) Cert			14.7																					316
OREAS 101b (4 Acid) Meas					131				19.3						728	1310	134	355	58.0	37.4	4.8	25.3	433	
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412	
OREAS 98 (4 Acid) Meas	1280										195	4.6												> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1												14800 0.0
OREAS 13b (4-Acid) Meas	140		53.7						8.05															2210
OREAS 13b (4-Acid) Cert	133		57						9.0															2327.0 000
OREAS 904 (4 Acid) Meas	26.0	15.4	107	97.5	32.5	26.4	158		2.09	0.2	3	1.4		224	43.8	87.8						0.9	6040	
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0						1.00	6120	
OREAS 45d (4-Acid) Meas																								
OREAS 45d (4-Acid) Cert																								
OREAS 96 (4 Acid) Meas	442										65	5.3												> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09												39300
OREAS 923 (4 Acid) Meas																								
OREAS 923 (4 Acid) Cert																								
OREAS 621 (4 Acid) Meas																								
OREAS 621 (4 Acid) Cert																								
OREAS 228b (Fire Assay) Meas																								
OREAS 228b (Fire Assay) Cert																								
Oreas E1336 (Fire Assay) Meas																								
Oreas E1336 (Fire Assay) Cert																								
OREAS 681 (4 Acid) Meas	96.3	18.9		85.4	17.3	451	59	5.9	1.40	< 0.1	2	0.3		476	19.0	40.3	5.2	20.9	3.8	3.8	0.6	3.2	280	
OREAS 681 (4 Acid) Cert	88.0	17.6		80.0	17.5	478	58.0	6.17	1.38	0.0420	1.89	0.240		442	18.8	40.6	5.32	21.9	4.82	4.06	0.580	3.40	264	
OREAS 147 (4 Acid) Meas																								
OREAS 147 (4 Acid) Cert																								
Oreas 521 (4 Acid) Meas																								
Oreas 521 (4 Acid) Cert																								
OREAS 70b (4 Acid) Meas	114	10.2	156		9.4	71.1	63	3.4	4.34	< 0.1	1	0.7		217	14.8	27.0								54.4

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 70b (4 Acid) Cert	112	10.1	148		9.8	74.0	66	3.7	3.30	0.05	1	0.6		202	15.3	28.2							52.0
833261 Orig																							
833261 Dup																							
833274 Orig																							
833274 Dup																							
833283 Orig																							
833283 Dup																							
833294 Orig	63.3	20.0	0.3	106	5.9	149	185	2.3	0.63	< 0.1	1	< 0.1	< 0.1	682	29.4	64.0	5.8	18.5	3.1	2.1	0.3	1.2	18.9
833294 Split PREP DUP	65.2	21.0	0.4	114	6.7	157	193	0.8	0.66	< 0.1	1	< 0.1	< 0.1	696	38.4	74.1	7.1	21.9	4.1	2.6	0.3	1.4	18.6
Method Blank	< 0.2	0.2	< 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	0.2
Method Blank	< 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	0.3
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.72
Oreas 72a (4 Acid) Cert															1.74
OREAS 101b (4 Acid) Meas		2.0	12.5	1.7					22.4		34.0	344	0.347	0.120	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 98 (4 Acid) Meas									322						15.7
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 13b (4-Acid) Meas															1.21
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas	0.2		3.1	0.4	0.8	2.5		0.47	10.4	12	13.4	8.2		0.105	0.06
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas										47			0.779	0.042	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 96 (4 Acid) Meas									99.9						4.34
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 923 (4 Acid) Meas										13			0.394	0.068	0.71
OREAS 923 (4 Acid) Cert										13.1			0.405	0.0630	0.691
OREAS 621 (4 Acid) Meas										6			0.175	0.037	4.70
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
Oreas E1336 (Fire Assay) Meas															
Oreas E1336 (Fire Assay) Cert															
OREAS 681 (4 Acid) Meas		0.3	1.7	0.2	0.4	1.0			12.7	27	6.2	1.4	0.544	0.137	0.10
OREAS 681 (4 Acid) Cert		0.280	1.77	0.270	0.420	1.09			10.2	27.7	6.55	1.44	0.588	0.141	0.109
OREAS 147 (4 Acid) Meas										10			0.191	0.112	0.02
OREAS 147 (4 Acid) Cert										10.7			0.470	0.155	0.0300
Oreas 521 (4 Acid) Meas										13			0.334	0.076	1.75
Oreas 521 (4 Acid) Cert										14			0.393	0.081	1.80
OREAS 70b (4 Acid) Meas					0.3	4.1		0.31	13.1	11	5.9	1.7	0.163	0.022	0.29

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
OREAS 70b (4 Acid) Cert					0.3	4.9		0.33	13.7	12	6.9	1.7	0.181	0.022	0.31
833261 Orig															
833261 Dup															
833274 Orig															
833274 Dup															
833283 Orig															
833283 Dup															
833294 Orig	0.2	< 0.1	0.7	0.1	< 0.1	< 0.1	< 0.001	0.57	12.4	3	8.5	2.3	0.232	0.050	< 0.01
833294 Split PREP DUP	0.2	< 0.1	0.8	0.1	< 0.1	< 0.1	< 0.001	0.59	13.6	3	11.4	4.0	0.204	0.053	< 0.01
Method Blank	< 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	< 0.1	< 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										< 1			< 0.0005	< 0.001	< 0.01
Method Blank															
Method Blank															
Method Blank															
Method Blank															



Report No.: A21-21123
Report Date: 12-Nov-21
Date Submitted: 10-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

3 Rock samples were submitted for analysis.

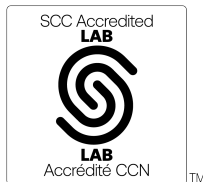
Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: 1A2-Tbay-Harte Gold, QOP AA-Au (Au - Fire Assay AA), 2021-11-12 13:50:55

REPORT A21-21123

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Notes:

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



LabID: 673

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

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
833295	< 5
833296	< 5
833297	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 228b (Fire Assay) Meas	8640
OREAS 228b (Fire Assay) Cert	8570
Oreas E1336 (Fire Assay) Meas	514
Oreas E1336 (Fire Assay) Cert	510
833297 Orig	< 5
833297 Dup	< 5
Method Blank	< 5



Harte Gold Corp.
 161 Bay Street
 Suite 2400
 Toronto Ontario M5J 2S1
 Canada

Report No.: A21-21253
 Report Date: 21-Jan-22
 Date Submitted: 12-Nov-21
 Your Reference: Exploration/Prospecting

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

227 Rock samples were submitted for analysis.

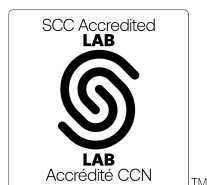
The following analytical package(s) were requested:		Testing Date:
1A2-Tbay-Harte Gold	QOP AA-Au (Au - Fire Assay AA)	2021-11-15 15:10:53

REPORT **A21-21253**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
 Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Eseme, Ph.D.
 Quality Control Coordinator

Report No.: A21-21253
Report Date: 21-Jan-22
Date Submitted: 12-Nov-21
Your Reference: Exploration/Prospecting

Harte Gold Corp.
161 Bay Street
Suite 2400
Toronto Ontario M5J 2S1
Canada

ATTN: David Stevenson

CERTIFICATE OF ANALYSIS

227 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-6	QOP Total/QOP Ultratrace- 4acid Digest (Total Digestion ICPOES/ICPMS)	2021-12-23 15:11:13

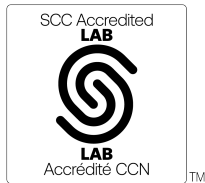
REPORT A21-21253

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Notes:

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

Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 266

ACTIVATION LABORATORIES LTD.
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833298	< 5																						
833299	< 5																						
833300	7040																						
833301	6																						
833302	6																						
833303	< 5																						
833304	< 5																						
833305	< 5																						
833306	< 5																						
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833320	5540																						
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833326	6																						
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833329	< 5																						
833330	< 5																						
833331	< 5																						
833332	< 5																						
833333	< 5	39.2	> 3.00	0.85	8.97	1.38	2.60	< 0.1	44	23	312	2.07	2.3	12.9	0.5	1.2	0.2	0.10	4.10	5.9	0.71	0.13	< 0.1
833334	< 5	43.6	> 3.00	0.48	8.63	1.30	2.49	< 0.1	40	10	283	1.93	2.2	5.1	0.4	1.1	0.2	0.08	7.52	5.1	0.63	0.10	< 0.1
833335	< 5	49.1	> 3.00	0.55	8.88	1.53	2.12	< 0.1	42	19	315	1.94	2.5	4.6	0.8	1.5	0.3	0.13	8.96	5.0	0.65	0.24	< 0.1
833336	< 5																						
833337	< 5																						
833338	< 5																						
833339	< 5																						
833340	3700																						
833341	< 5																						
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833346	< 5																						
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833348	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
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833360	7000																						
833361	< 5																						
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833363	< 5																						
833364	< 5																						
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833366	< 5																						
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833369	12																						
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833397	< 5																						
833398	< 5																						
833399	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833400	3680																						
833401	< 5																						
833402	< 5																						
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833445	< 5																						
833446	6																						
833447	< 5																						
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833450	< 5																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
833451	< 5																						
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833460	3590																						
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833494	8																						
833495	9																						
833496	6																						
833497	6																						
833498	48																						
833499	11																						
833500	5510																						
834651	15																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
834652	15																						
834653	9																						
834654	14																						
834655	15																						
834656	24																						
834657	9																						
834658	18																						
834659	10																						
834660	7																						
834661	5																						
834662	6																						
834663	< 5																						
834664	< 5																						
834665	< 5																						
834666	9																						
834667	< 5																						
834668	6																						
834669	7																						
834670	3510																						
834671	9																						
834672	8																						
834673	5																						
834674	< 5																						

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833298																							
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833331																							
833332																							
833333	56.3	19.2	1.6	44.6	4.5	630	70	2.9	0.90	< 0.1	< 1	< 0.1	< 0.1	535	14.6	30.3	3.6	13.8	3.2	1.9	0.2	1.0	18.3
833334	62.7	20.8	1.5	50.9	3.6	668	65	2.1	0.77	< 0.1	< 1	< 0.1	< 0.1	533	11.4	24.1	2.9	11.9	1.9	1.7	0.2	0.9	8.3
833335	59.8	21.3	1.2	60.7	8.7	550	69	5.9	0.94	< 0.1	< 1	< 0.1	< 0.1	495	12.0	25.5	3.3	13.1	3.1	2.3	0.3	1.6	10.8
833336																							
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Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
833349																							
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833398																							
833399																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
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833450																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
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833499																							
833500																							
834651																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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
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834673																							
834674																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
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833329															
833330															
833331															
833332															
833333	< 0.1	< 0.1	0.4	< 0.1	0.1	0.1	< 0.001	0.32	8.5	4	2.2	0.6	0.220	0.060	0.06
833334	< 0.1	< 0.1	0.3	< 0.1	0.1	< 0.1	< 0.001	0.36	8.8	4	1.6	0.6	0.191	0.052	0.04
833335	< 0.1	0.1	0.9	0.1	1.4	0.1	< 0.001	0.46	10.7	5	2.0	1.5	0.206	0.051	0.04
833336															
833337															
833338															
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833348															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833349															
833350															
833351															
833352															
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833354															
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833356															
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833358															
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833362															
833363															
833364															
833365															
833366															
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833379															
833380															
833381															
833382															
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833386															
833387															
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833389															
833390															
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833392															
833393															
833394															
833395															
833396															
833397															
833398															
833399															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833400															
833401															
833402															
833403															
833404															
833405															
833406															
833407															
833408															
833409															
833410															
833411															
833412															
833413															
833414															
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833437															
833438															
833439															
833440															
833441															
833442															
833443															
833444															
833445															
833446															
833447															
833448															
833449															
833450															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
833451															
833452															
833453															
833454															
833455															
833456															
833457															
833458															
833459															
833460															
833461															
833462															
833463															
833464															
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833470															
833471															
833472															
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833490															
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833493															
833494															
833495															
833496															
833497															
833498															
833499															
833500															
834651															

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
834652															
834653															
834654															
834655															
834656															
834657															
834658															
834659															
834660															
834661															
834662															
834663															
834664															
834665															
834666															
834667															
834668															
834669															
834670															
834671															
834672															
834673															
834674															

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 72a (4 Acid) Meas										157		8.72		> 5000						140			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
Oreas 72a (4 Acid) Meas										170		9.82		> 5000						165			
Oreas 72a (4 Acid) Cert										228		9.63		6930.000						157			
OREAS 101b (4 Acid) Meas				1.22		2.38			74		949	10.7		11.4	14.5		4.8			45.8	6.94		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 101b (4 Acid) Meas				1.21		2.46			80		892	10.4		9.8	15.6		5.3			46.9	6.57		
OREAS 101b (4 Acid) Cert				1.23		2.36			77		927	10.7		8.2	15		5.2			45	8.1		
OREAS 98 (4 Acid) Meas																		43.9		119		87.8	160
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 98 (4 Acid) Meas																		44.2		134		98.8	174
OREAS 98 (4 Acid) Cert																		45.1		121		97.2	158
OREAS 13b (4-Acid) Meas										> 5000				2020				0.83		73.3			
OREAS 13b (4-Acid) Cert										8650.000				2247.000				0.86		75			
OREAS 904 (4 Acid) Meas		16.8	0.04	0.60	6.86	3.66	0.04		77	60	415	6.54	5.0	41.7		7.5	0.63	3.63	81.4		4.15	2.6	
OREAS 904 (4 Acid) Cert		16.7	0.0340	0.556	6.30	3.31	0.0460		76.0	54.0	410	6.68	5.00	40.1		7.86	0.551	3.79	83.0		4.05	3.30	
OREAS 45d (4-Acid) Meas		20.1	0.09	0.26	7.96	0.43	0.18		124	475	459	14.1	2.1	223	1.4	0.7	0.5		3.46	29.4	0.53	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 96 (4 Acid) Meas																		10.5		48.7		27.7	38.8
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 96 (4 Acid) Meas																		11.2		48.0		27.6	41.5
OREAS 96 (4 Acid) Cert																		11.5		49.9		26.3	40.7
OREAS 923 (4 Acid) Meas		32.2	0.33	1.85	7.95	2.11	0.45	0.4	86	77	1000	6.47	3.5	34.8	2.6	2.2	0.9	1.64	6.90	22.5	1.25	22.9	6.4
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	6.54
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas	8550																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8650																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8600																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8550																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8460																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8570																						
OREAS 228b (Fire Assay) Cert	8570																						
OREAS 228b (Fire Assay) Meas	8470																						
OREAS 228b (Fire Assay) Cert	8570																						
Oreas E1336 (Fire Assay) Meas	498																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	518																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	519																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	515																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	506																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	516																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	510																						
Oreas E1336 (Fire Assay) Cert	510.000																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas		16.1	0.95	1.07	4.57	2.77	3.42		200	44	3280	20.6	3.0	67.0	2.1	0.8	0.7	0.83	0.74	373	1.52	5.99	1.4
Oreas 521 (4 Acid) Cert		16.4	0.98	1.13	4.77	3.16	3.86		209	31	3210	20.7	3.2	73.0	2.1	0.9	0.7	0.89	0.72	386	1.64	5.85	2.4

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
833299 Orig	< 5																						
833299 Dup	< 5																						
833313 Orig	< 5																						
833313 Dup	< 5																						
833322 Orig	< 5																						
833322 Dup	< 5																						
833334 Orig	< 5																						
833334 Dup	< 5																						
833347 Orig	< 5																						
833347 Split PREP DUP	< 5																						
833347 Split PREP DUP	< 5																						
833356 Orig	< 5																						
833356 Dup	< 5																						
833368 Orig	< 5																						
833368 Dup	< 5																						
833382 Orig	< 5																						
833382 Dup	< 5																						
833391 Orig	< 5																						
833391 Dup	< 5																						
833397 Orig	< 5																						
833397 Split PREP DUP	< 5																						
833402 Orig	< 5																						
833402 Dup	< 5																						
833416 Orig	< 5																						
833416 Dup	< 5																						
833425 Orig	< 5																						
833425 Dup	< 5																						
833437 Orig	< 5																						
833437 Dup	< 5																						
833447 Orig	< 5																						
833447 Split PREP DUP	< 5																						
833450 Orig	< 5																						
833450 Dup	< 5																						
833459 Orig	< 5																						
833459 Dup	< 5																						
833471 Orig	< 5																						
833471 Dup	< 5																						
833485 Orig	< 5																						
833485 Dup	< 5																						
833494 Orig	8																						
833494 Dup	7																						
833497 Orig	6																						
833497 Split PREP DUP	5																						
834655 Orig	16																						

Analyte Symbol	Au	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppb	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	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	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
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
834655 Dup	14																						
834669 Orig	7																						
834669 Dup	6																						
834674 Orig	< 5																						
834674 Split PREP DUP	< 5																						
Method Blank	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
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Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	5																						
Method Blank																							
Method Blank																							
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	3	7	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	5	2	< 0.01	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank		< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	6	2	< 0.01	< 0.1	0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 72a (4 Acid) Meas			14.3																				307
Oreas 72a (4 Acid) Cert			14.7																				316
Oreas 72a (4 Acid) Meas			18.9																				319
Oreas 72a (4 Acid) Cert			14.7																				316
OREAS 101b (4 Acid) Meas					111				20.5						668	1200	110	337	43.0	36.0	4.3	25.5	415
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412
OREAS 101b (4 Acid) Meas					116				19.7						725	1220	117	349	43.8	34.9	4.6	26.0	420
OREAS 101b (4 Acid) Cert					133				20.1						754	1325	127	388	48	40	5.4	27	412
OREAS 98 (4 Acid) Meas	1280										199	7.6											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 98 (4 Acid) Meas	1330										> 200	8.1											> 10000
OREAS 98 (4 Acid) Cert	1360										206	20.1											14800 0.0
OREAS 13b (4-Acid) Meas	131		47.2						8.51														2140
OREAS 13b (4-Acid) Cert	133		57						9.0														2327.0 000
OREAS 904 (4 Acid) Meas	26.6	14.3	94.7	124	29.0	24.1	184		2.29	0.2	3	1.4		210	41.3	82.7					0.9		5760
OREAS 904 (4 Acid) Cert	26.3	16.7	98.0	130	31.5	27.2	171		2.12	0.220	2.83	1.48		194	43.2	86.0					1.00		6120
OREAS 45d (4-Acid) Meas	41.4	20.1	7.7	40.6	9.7	27.3	67	0.8	0.33	< 0.1	< 1	< 0.1		169	16.2	32.4	3.6	12.6	2.8	2.3	0.4	2.4	368
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	371
OREAS 96 (4 Acid) Meas	430										63	4.7											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 96 (4 Acid) Meas	406										66	4.8											> 10000
OREAS 96 (4 Acid) Cert	457										65.6	5.09											39300
OREAS 923 (4 Acid) Meas	343	20.8	8.6	171	25.7	39.4	128	15.8	1.06	0.5	14	1.5		424	41.9	78.5	9.4	35.3	5.3	6.1	0.8	5.0	4040
OREAS 923 (4 Acid) Cert	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	4230
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 228b (Fire Assay) Meas																							
OREAS 228b (Fire Assay) Cert																							
OREAS 228b (Fire Assay) Meas																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
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	0.2	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	0.2
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 70b (4 Acid) Meas																							
OREAS 70b (4 Acid) Cert																							
833299 Orig																							
833299 Dup																							
833313 Orig																							
833313 Dup																							
833322 Orig																							
833322 Dup																							
833334 Orig																							
833334 Dup																							
833347 Orig																							
833347 Split PREP DUP																							
833347 Split PREP DUP																							
833356 Orig																							
833356 Dup																							
833368 Orig																							
833368 Dup																							
833382 Orig																							
833382 Dup																							
833391 Orig																							
833391 Dup																							
833397 Orig																							
833397 Split PREP DUP																							
833402 Orig																							
833402 Dup																							
833416 Orig																							
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833494 Orig																							
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833497 Orig																							
833497 Split PREP DUP																							
834655 Orig																							

Analyte Symbol	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	%	%	%
Lower Limit	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-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas															1.65
Oreas 72a (4 Acid) Cert															1.74
Oreas 72a (4 Acid) Meas															
Oreas 72a (4 Acid) Cert															
OREAS 101b (4 Acid) Meas		2.0	13.3	1.7					23.3		35.5	323	0.373	0.120	
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387	0.35		
OREAS 101b (4 Acid) Meas		2.0	12.9	1.7					21.1		35.6	369			
OREAS 101b (4 Acid) Cert		2.08	13.9	1.96					23		36.4	387			
OREAS 98 (4 Acid) Meas									291						14.9
OREAS 98 (4 Acid) Cert									345						15.5
OREAS 98 (4 Acid) Meas									307						
OREAS 98 (4 Acid) Cert									345						
OREAS 13b (4-Acid) Meas															1.18
OREAS 13b (4-Acid) Cert															1.2
OREAS 904 (4 Acid) Meas	< 0.1		3.2	0.4	0.9	2.7		0.54	12.9	13	15.1	8.8		0.112	0.07
OREAS 904 (4 Acid) Cert	0.180		3.14	0.470	0.540	2.12		0.520	10.6	11.2	14.3	8.43		0.0980	0.0630
OREAS 45d (4-Acid) Meas			1.4	0.2	< 0.1	< 0.1		0.24	19.5	55	13.8	2.6	0.305	0.038	0.05
OREAS 45d (4-Acid) Cert			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 96 (4 Acid) Meas									130						4.38
OREAS 96 (4 Acid) Cert									101						4.19
OREAS 96 (4 Acid) Meas									94.4						
OREAS 96 (4 Acid) Cert									101						
OREAS 923 (4 Acid) Meas		0.4	2.5	0.4	1.1	5.9		0.86	91.5		17.9	3.3			
OREAS 923 (4 Acid) Cert		0.410	2.57	0.390	1.11	4.85		0.860	83.0		16.5	3.06			
OREAS 621 (4 Acid) Meas										5			0.191	0.038	4.94
OREAS 621 (4 Acid) Cert										6.24			0.149	0.0359	4.48
OREAS 228b (Fire Assay) Meas															
OREAS 228b (Fire Assay) Cert															
OREAS 228b (Fire Assay) Meas															

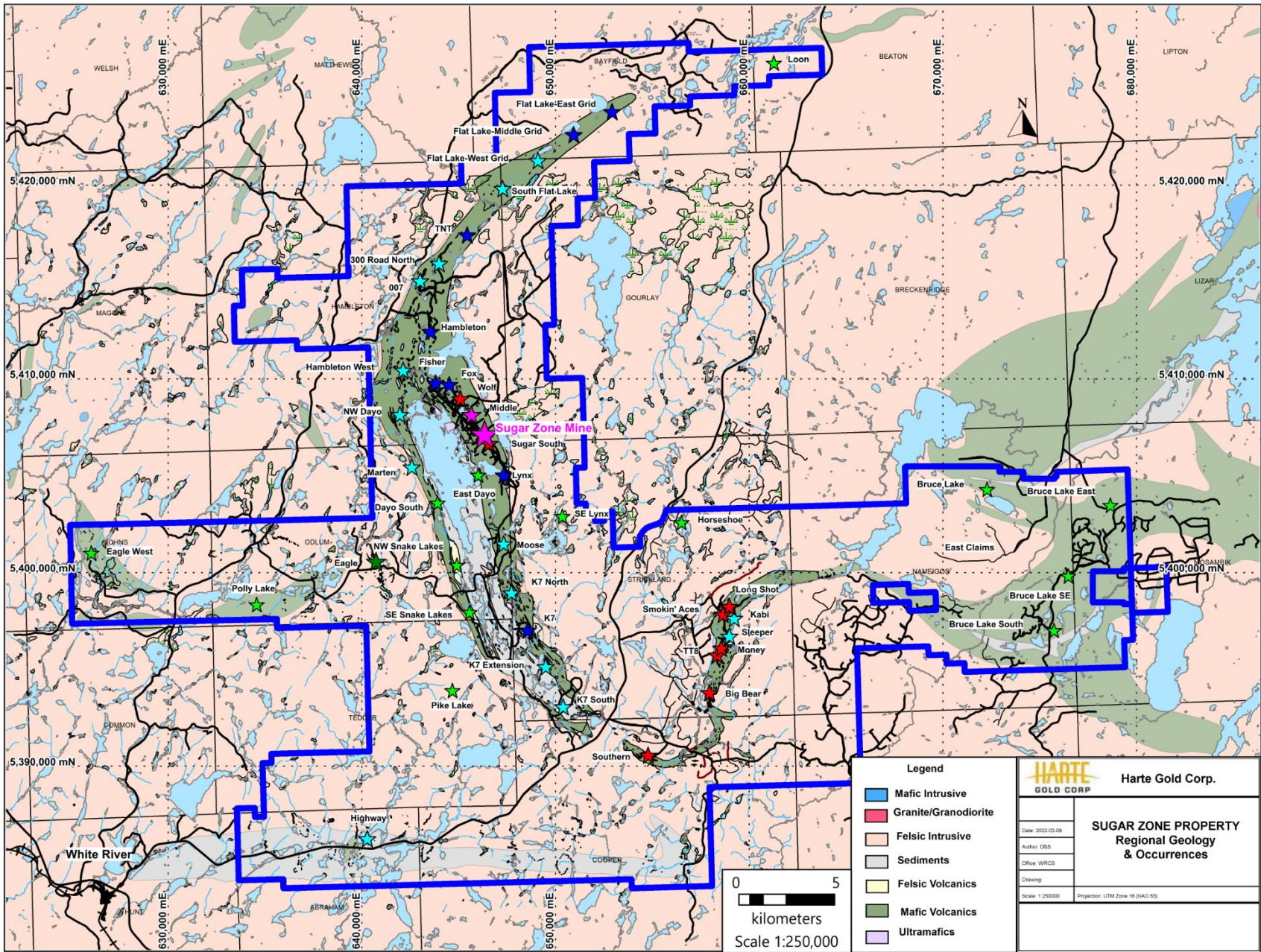
Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	
OREAS 70b (4 Acid) Meas										11			0.171	0.022	0.29	
OREAS 70b (4 Acid) Cert										12			0.181	0.022	0.31	
833299 Orig																
833299 Dup																
833313 Orig																
833313 Dup																
833322 Orig																
833322 Dup																
833334 Orig																
833334 Dup																
833347 Orig																
833347 Split PREP DUP																
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Appendix G – Southern Zone – 2021 Actlabs Invoices

Withheld for Confidentiality

Appendix H – Southern Zone – 2021 Foraco Invoices

Withheld for Confidentiality



Southern Zone – 2021 Summary of Costs

Activity	Units		Cost per Unit	Total	%
Drilling (5 holes)	1631	meters	\$108.18	\$240,624	69%
Planning/Supervision	49	days	\$692.28	\$33,922	10%
Drill Geologist	49	days	\$285.56	\$13,992	4%
Core Cutter	49	days	\$220.00	\$10,780	3%
Assays	1023	samples	\$33.76	\$34,567	10%
Truck (68 km x 3 trips/hole)	1020	kilometers	\$0.50	\$510	0%
R&B - Supervisor	49	days	\$89.00	\$4,361	1%
R&B - Geologist	49	days	\$89.00	\$4,361	1%
Report Writing	6	days	\$692.28	\$4,154	1%
Total Program Cost				\$347,271	100%
			Average \$/m	\$212.92	